AMERICAN MEN OF SCIENCE

The Social and Behavioral Sciences

ELEVENTH EDITION

A-K

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AMERICAN MEN OF SCIENCE

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A BIOGRAPHICAL DIRECTORY

Edited by The Jaques Cattell Press

ELEVENTH EDITION

The Social & Behavioral Sciences

A–K

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Editors' Preface

These two volumes, the seventh and eighth, covering the Social and Behavioral Sciences, complete the Eleventh Edition of AMERICAN MEN OF SCIENCE. It was only in the Ninth Edition, published in 1956, that the Social and Behavioral Sciences were issued as a separate volume on the advice of a special joint committee of the American Association for the Advancement of Science and the National Academy of Sciences-National Research Council. Some 18,000 names appeared in the Ninth Edition and more than 22,000 in the Tenth Edition, published in 1962. With approximately 30,000 in the Eleventh Edition, the prophecy voiced by the late Jaques Cattell, editor of AMERICAN MEN OF SCIENCE for over thirty-five years, has been fulfilled. In his preface to the 1956 edition, he expressed his belief that, as the importance of this biographical work came to the attention of leaders in the Social and Behavioral Sciences, the coverage would increase.

The pattern established for the Tenth Edition has been repeated in the Eleventh with publication of the Physical and Biological Sciences Section first, followed immediately by the Social and Behavioral Sciences. As before, the biographical information has been arranged alphabetically within each section, but the ever increasing number of scientists necessitated expansion from four to six volumes in the Physical and Biological Sciences and from one to two volumes in the Social and Behavioral. Over 160,000 entries are included in all eight volumes, compared to 118,000 in the Tenth Edition.

The criteria for inclusion in AMERICAN MEN OF SCIENCE remain the same:

1. Achievement, by reason of experience and training, of a stature in scientific work at least equivalent to that associated with the doctorate degree, coupled with presently continued activity in such work; or

2. Research activity of high quality in science as evidenced by publication in reputable scientific journals; or, for those whose work cannot be published because of governmental or commercial or industrial security, research activity of high quality in science as evidenced by the judgment of the individual's peers among his immediate co-workers; or

3. Attainment of a position of substantial responsibility requiring scientific training and experience of approximately the extent described for (1) and (2).

As with the previous editions, special thanks go to the Social Science Research Council for its informal but invaluable guidance and to the representatives of the key national associations who form the distinguished Advisory Committee for the Social and Behavioral Sciences:

Dr. Arthur H. Brayfield, American Psychological Association; Dr. Charles Frantz, American Anthropological Association, Dr. Norton Ginsburg, Association of American Geographers; Dr. Evron M. Kirkpatrick, American Political Science Association; Donald C. Riley, American Statistical Association; Dr. M. H. Trytten, National Academy of Sciences; Dr. E. H. Volkart, American Sociological Association; Dr. Harold F. Williamson, American Economic Association; Dr. Dael Wolfle, American Association for the Advancement of Science.

George M. McCorkle, president of The Jaques Cattell Press, has worked closely with the Advisory Committee and the staff in the present compilation.

Needless to say, without the cooperation and advice of the vast number of individuals and organizations interested in science, such a compilation as AMERICAN MEN OF SCIENCE would not be possible, and acknowledgment is gratefully extended to the individual scientists, to the Advisory Committee, to all scientific societies, to the universities and colleges, and to the research laboratories of the United States and Canada for their assistance in the continuance of this great enterprise.

The many valuable suggestions received during compilation of the present edition are being carefully considered in future planning. The first to be instituted has been a new Supplementary Service to meet the need for a continual flow of up-to-date information concerning American scientists. Four Supplements to the Physical and Biological Sciences Section have been published, and two more are scheduled: the fifth to be published in 1969 and the sixth in 1970. A Supplement to the Social and Behavioral Sciences Section is planned for publication within the next two years.

This edition has been compiled in Tempe, Arizona, where the editorial offices were moved in 1958 prior to the death of Jaques Cattell. The history of AMERICAN MEN OF SCIENCE goes back to 1906 when a manuscript reference list was published for the Carnegie Institution of Washington by James McKeen Cattell. From this foundation the project has grown to its present scope. The R. R. Bowker Company, which had been associated with Mr. Cattell in the publication of the Ninth Edition, bought The Jaques Cattell Press in 1961 from the estate and continues to serve as publisher, maintaining the same close liaison with cooperating organizations and holding to the same high standards which have characterized this "saga of American science" for over sixty years.

Every effort has been made to avoid errors in the listings—with the certain knowledge that some have escaped us. The great majority of entries have been edited from information received in questionnaires. Biographies of those who did not reply to requests for revisions have been repeated when there was reasonable assumption of continuance at the same location; failing this, a simple reference to the previous edition has been made. When a new address or new affiliation came to our attention from a reliable source, this information has been added to the reference. We have used our best efforts to include the material submitted within the scope of the established format, but have no legal responsibility for errors in entries or accidental omissions.

Elizabeth Cattell, Vice-President and Resident Manager, The Jaques Cattell Press.

Dorothy Hancock, Managing Editor, American Men of Science.

Anne J. Richter, Director of the Book Editorial Department, R. R. Bowker Company.

September, 1968

Abbreviations

American Men of Science has tried to economize on punctuation since the first edition published in 1906, and has used only one punctuation mark at any point. Also, since many societies have the same initials, it has been found necessary to use abbreviations in place of initial letters, for their titles. These abbreviations are generally self-explanatory, or can be found in the following list:

AAAS—American Association for the Advancement of Science
abnorm—abnormal
abstr—abstractor
acad—academic, academy
acct—account, accountant, accounting
adj—adjunct, adjutant
adjust—adjustment
Adm—Admiral
admin—administration, administrative
adminstr—administrator
adv—advanced, advancement, adviser, advisory
advert-advertisement
aerodyn—aerodynamic(s)
aeronaut—aeronautic(s), aeronautical
aerophys—aerophysical, aerophysics
agr—agricultural, agriculture
agron—agronomic, agronomical, agronomy
agrost—agrostologic, agrostological, agrostology
Ala—Alabama
allergol—allergological, allergology
Alta—Alberta
Am—America, American
anal—analysis, analytic, analytical
analog—analogue
anat—anatomic, anatomical, anatomy
anesthesiol—anesthesiology
angiol—angiology
Ann—Annal(s)
anthrop—anthropological, anthropology
anthropom—anthropometric, anthropometrical, anthropometry
antiq—antiquarian, antiquary, antiquities, antiquity
apicult—apicultural, apiculture
APO—Army Post Office
app—appoint, appointed
appl—applied
appln—application
Apr—April
apt—apartment(s)
aquacult—aquaculture
arbit—arbitration
Arch—Archives
archaeol—archaeological, archaeology
archit—architectural, architecture
Ariz—Arizona
Ark—Arkansas
artil—artillery
Asn—Association
assoc(s)—associate(s), associated
asst—assistant
astrodyn—astrodynamics
astron—astronomical, astronomy
astronaut—astronautical, astronautics
astronr—astronomer
astrophys—astrophysical, astrophysics
attend—attendant, attending
audiol—audiology
Aug—August
auth—author
Ave—Avenue
avicult—avicultural, aviculture

b—born
bact—bacterial, bacteriologic, bacteriological, bacteriology
B.C—British Columbia
bd—board
behav—behavior, behavioral
bibliog—bibliographic, bibliographical, bibliography
biochem—biochemical, biochemistry
biol—biological, biology
biomet—biometric(s), biometrical, biometry
biophys—biophysical, biophysics
bldg—building
blvd—boulevard
bot—botanical, botany
br—branch
Brig—Brigadier
Brit—Britain, British
Bro(s)—Brother(s)
bryol—bryology
Bull—Bulletin
bur—bureau
bus—business
B.W.I—British West Indies

c—children, corps
Calif—California
Can—Canada, Canadian
cand—candidate
Capt—Captain
cardiol—cardiology
cardiovasc—cardiovascular
cartog—cartographic, cartographical, cartography
Cath—Catholic
C.Eng—Corps of Engineers
cent—central
Cent. Am—Central America
cert—certificate, certified
chap—chapter
chem—chemical(s), chemistry
chmn—chairman
citricult—citriculture
climat—climatological, climatology
clin(s)—clinic(s), clinical
cmn(s)—commission(s)
cmnr—commissioner
cmt(s)—committee(s)
co—companies, company, county
co-auth—co-author
co-ed—co-editor
col(s)—college(s), colonel
collab—collaboration, collaborative, collaborator
Colo—Colorado
Comdr—Commander
commun—communicable, communication(s)
comp—comparative
comput—computation, computer(s), computing
conchol—conchology
conf—conference
cong—congress(es)
Conn—Connecticut
conserv—conservancy, conservation
conservy—conservatory
consol—consolidated, consolidation
construct—construction
consult—consultant, consulting
contrib—contributing, contributor
coop—cooperation, cooperative
coord—coordinating, coordination
cor—corresponding
corp—corporate, corporation
coun—council, councilor
counsr—counselor
criminol—criminological, criminology
crypt—cryptogam, cryptogamic
crystallog—crystallographic, crystallographical, crystallography
C.W.S—Chemical Warfare Service
cybernet—cybernetic(s)
cytol—cytological, cytology
C.Z—Canal Zone
Czech—Czechoslovakia

D.C—District of Columbia
Dec—December
Del—Delaware
del—delegate, delegation
demog—demographic, demography
demonstr—demonstrator
dendrol—dendrologic, dendrological, dendrology
dent—dental, dentistry
dep—deputy
dept—department
dermat—dermatologic, dermatological, dermatology

develop—development, developmental
diag—diagnosis, diagnostic
dipl—diploma, diplomate
dir(s)—director(s), directory
dist—district
div—division, divorced
document—documentation
Dom—Dominion
Dr—Doctor, Drive

e—east
east—eastern
ecol—ecological, ecology
econ(s)—economic(s), economical, economy
economet—econometric(s)
ed—edition, editor, editorial, education, educational
elec—electric, electrical, electricity
electroencephalog—electroencephalographic, electroencephalography
elem—elementary
embryol—embryologic, embryological, embryology
emer—emeritus
employ—employment
encyclop—encyclopedia
endocrinol—endocrinologic, endocrinology
eng—engineering
Eng—England, English
engr(s)—engineer(s)
enol—enology
Ens—Ensign
entom—entomological, entomology
environ—environment(s), environmental
enzym—enzymology
epidemiol—epidemiologic, epidemiological, epidemiology
equip—equipment
espec—especially
estab—established, establishment
ethnog—ethnographic, ethnographical, ethnography
ethnol—ethnologic, ethnological, ethnology
eval—evaluation
evangel—evangelical
eve—evening
exam—examination, examiner(s)
except—exceptional
exec(s)—executive(s)
exhib(s)—exhibition(s)
exp—experiment, experimental
exped(s)—expedition(s)
explor—exploration(s), exploratory
expos—exposition
exten—extension

Feb—February
fed—federal
fedn—federation
fel(s)—fellow(s), fellowship(s)
fermentol—fermentology
fertil—fertility
Fla—Florida
floricult—floricultural, floriculture
for—foreign
found—foundation
FPO—Fleet Post Office
Ft—Fort

Ga—Georgia
gastroenterol—gastroenterology
gen—general
geneal—genealogical, genealogy
geod—geodesy, geodetic
geog—geographic, geographical, geography
geogr—geographer
geol—geologic, geological, geology
geom—geometric, geometrical, geometry
geophys—geophysical, geophysics
geriat—geriatric(s)
geront—gerontological, gerontology
glaciol—glaciology
gov—governing, governor(s)
govt—government, governmental
grad—graduate
Gt. Brit—Great Britain
guid—guidance
gym—gymnasium
gynec—gynecologic, gynecological, gynecology

helminth—helminthology
hemat—hematologic, hematological, hematology
herpet—herpetologic, herpetological, herpetology
hist—historical, history
histol—histological, histology
hochsch—hochschule
homeop—homeopathic, homeopathy
hon—honorable, honorary
hort—horticultural, horticulture
hosp(s)—hospital(s)
hq—headquarters
HumRRO—Human Resources Research Office
husb—husbandry
hwy—highway
hydraul—hydraulic(s)
hydrodyn—hydrodynamic(s)
hydrol—hydrologic, hydrological, hydrology
hyg—hygiene, hygienic(s)

ichthyol—ichthyological, ichthyology
Ill—Illinois
illum—illuminating, illumination
immunol—immunologic, immunological, immunology
Imp—Imperial
improv—improvement
Inc—Incorporated
Ind—Indiana
indust(s)—industrial, industries, industry
info—information
inorg—inorganic
ins—insurance
inst(s)—institute(s), institution(s)
instnl—institutional
instr(s)—instruction, instructor(s)
int—international
intel—intelligence
introd—introduction
invert—invertebrate
invest(s)—investigation(s)
investr—investigator
irrig—irrigation

J—Journal
Jan—January
jour—journal
jr—junior
jurisp—jurisprudence

Kans—Kansas
Ky—Kentucky

La—Louisiana
lab(s)—laboratories, laboratory
lang—language(s)
laryngol—laryngology
lect—lecture
lectr—lecturer
legis—legislation, legislative, legislature
L.I—Long Island
lib—liberal
librn—librarian
limnol—limnological, limnology
ling—linguistic(s)
lit—literary, literature
lithol—lithologic, lithological, lithology
Lt—Lieutenant
Ltd—Limited

m—married
mach—machine(s), machinery
mag—magazine
maj—major
malacol—malacology
mammal—mammalogy
Man—Manitoba
Mar—March
Mass—Massachusetts
mat—material(s)
mat. med—materia medica
math—mathematic(s), mathematical
Md—Maryland
mech—mechanic(s), mechanical
med—medical, medicinal, medicine
mem—member, memoirs, memorial
ment—mental
metab—metabolic, metabolism
metall—metallurgic, metallurgical, metallurgy
metallog—metallographic, metallography
metaphys—metaphysics
meteorol—meteorological, meteorology
metrol—metrological, metrology
metrop—metropolitan
Mex—Mexico
mfg—manufacturing
mfr(s)—manufacture(s), manufacturer(s)
mgr—manager
mgt—management
Mich—Michigan
micros—microscopic, microscopical, microscopy
mid—middle
mil—military
mineral—mineralogical, mineralogy
Minn—Minnesota
Miss—Mississippi
mkt—market, marketing
Mo—Missouri
mod—modern
monogr—monograph
Mont—Montana

morphol—morphological, morphology
mt(s)—mount, mountain(s)
munic—municipal
mus—museum
musicol—musicological, musicology
mycol—mycologic, mycology

n—north
NASA—National Aeronautics & Space Administration
nat—national, naturalized
NATO—North Atlantic Treaty Organization
navig—navigation
N.B—New Brunswick
N.C—North Carolina
N.Dak—North Dakota
Nebr—Nebraska
nematol—nematology
neurol—neurological, neurology
neuropath—neuropathological, neuropathology
neuropsychiat—neuropsychiatric, neuropsychiatry
Nev—Nevada
New Eng—New England
New York—New York City
Newf—Newfoundland
N.H—New Hampshire
N.J—New Jersey
N.Mex—New Mexico
nonres—nonresident
norm—normal
north—northern
northeast—northeastern
northwest—northwestern
Norweg—Norwegian
Nov—November
N.S—Nova Scotia
N.S.W—New South Wales
numis—numismatic
nutrit—nutrition, nutritional
N.Y—New York State
N.Z—New Zealand

observ—observatory
obstet—obstetric(s)
occup—occupation, occupational
oceanog—oceanographic, oceanographical, oceanography
oceanogr—oceanographer
Oct—October
odontol—odontology
OEEC—Organization for European Economic Cooperation
off—office, official
Okla—Oklahoma
olericult—olericulture
oncol—oncologic, oncology
Ont—Ontario
oper(s)—operation(s), operational, operative
ophthal—ophthalmologic, ophthalmological, ophthalmology
optom—optometric, optometrical, optometry
ord—ordnance
Ore—Oregon
org—organic
orgn—organization(s), organizational
ornith—ornithological, ornithology
orthod—orthodontia, orthodontic(s)
orthop—orthopedic(s)
osteop—osteopathic, osteopathy
otol—otological, otology
otolaryngol—otolaryngologic, otolaryngology
otorhinol—otorhinologic, otorhinology

Pa—Pennsylvania
Pac—Pacific
paleobot—paleobotanical, paleobotany
paleont—paleontological, paleontology
Pan-Am—Pan-American
parasitol—parasitology
path—pathologic, pathological, pathology
pedag—pedagogic(s), pedagogy
pediat—pediatric(s)
P.E.I—Prince Edward Islands
penol—penological, penology
periodont—periodontal, periodontic(s), periodontology
petrog—petrographic, petrographical, petrography
petrogr—petrographer
petrol—petroleum, petrologic, petrological, petrology
pharm—pharmacy
pharmaceut—pharmaceutic(s), pharmaceutical(s)
pharmacog—pharmacognosy
pharmacol—pharmacologic, pharmacological, pharmacology
Phila—Philadelphia
philol—philological, philology
philos—philosophic, philosophical, philosophy
photog—photographic, photography
photogeog—photogeographic, photogeography
photogram—photogrammetry
photom—photometric, photometrical, photometry
phycol—phycology
phys—physical
physiog—physiographic, physiographical, physiography
physiol—physiological, physiology
pkwy—parkway
polit—political, politics
polytech—polytechnic
pomol—pomological, pomology
pop—population
postgrad—postgraduate
P.R—Puerto Rico
prehist—prehistoric, prehistory
prep—preparation, preparative, preparatory
pres—president
Presby—Presbyterian
prev—prevention, preventive
prfnl—professional
prin—principal
prob(s)—problem(s)
probtn—probation
proc—proceedings
proctol—proctologic, proctological, proctology
prod—product(s), production, productive
prof—professor, professorial
prog(s)—program(s), programming
proj—project(s), projectional, projective
prom—promotion
prov—province, provincial
psychiat—psychiatric, psychiatry
psychoanal—psychoanalysis, psychoanalytic, psychoanalytical
psychol—psychological, psychology
psychomet—psychometric(s)
psychophys—psychophysical, psychophysics
psychophysiol—psychophysiological, psychophysiology
psychosom—psychosomatic(s)
psychother—psychotherapeutic(s), psychotherapy
pub—public, publishing
publ—publication(s)

qm—quartermaster
Qm. Gen—Quartermaster General
qual—qualitative, quality
quant—quantitative
quart—quarterly
Que—Quebec

radiol—radiological, radiology
R.A.F—Royal Air Force
R.A.F.V.R—Royal Air Force Volunteer Reserve
R.A.M.C—Royal Army Medical Corps
R.A.M.C.R—Royal Army Medical Corps Reserve
R.A.O.C—Royal Army Ordnance Corps
R.A.S.C—Royal Army Service Corps
R.A.S.C.R—Royal Army Service Corps Reserve
R.C.A.F—Royal Canadian Air Force
R.C.A.F.R—Royal Canadian Air Force Reserve
R.C.A.F.V.R—Royal Canadian Air Force Volunteer Reserve
R.C.A.M.C—Royal Canadian Army Medical Corps
R.C.A.M.C.R—Royal Canadian Army Medical Corps Reserve
R.C.A.S.C—Royal Canadian Army Service Corps
R.C.A.S.C.R—Royal Canadian Army Service Corps Reserve
R.C.E.M.E—Royal Canadian Electrical & Mechanical Engineers
R.C.N—Royal Canadian Navy
R.C.N.R—Royal Canadian Naval Reserve
R.C.N.V.R—Royal Canadian Naval Volunteer Reserve
rd—road
R.D—Rural Delivery
ref—refining
refrig—refrigeration
registr—registrar
registrn—registration
rehab—rehabilitation
rel(s)—relation(s), relative
relig—religion, religious
R.E.M.E—Royal Electrical & Mechanical Engineers
rep—representative
repub—republic
res—research, reserve, resident
ret—retired
rev—review, revised
rhet—rhetoric, rhetorical
R.I—Rhode Island
R.M—Royal Marines
R.N—Royal Navy
R.N.R—Royal Naval Reserve
R.N.V.R—Royal Naval Volunteer Reserve
roentgenol—roentgenologic, roentgenological, roentgenology
R.R—Railroad, Rural Route
rwy—railway

s—south
S.Africa—South Africa
S.Am—South America, South American
sanit—sanitary, sanitation
Sask—Saskatchewan
S.C—South Carolina
sch(s)—school(s)
scholar—scholarship
sci—science(s), scientific
S.Dak—South Dakota
SEATO—Southeast Asia Treaty Organization
sec—secondary
sect—section
secy—secretary
seismog—seismograph, seismographic, seismography
seismol—seismological, seismology

sem—seminary
Sept—September
serol—serologic, serological, serology
serv—service(s)
silvicult—silvicultural, silviculture
soc(s)—social, societies, society
sociol—sociologic, sociological, sociology
south—southern
southeast—southeastern
southwest—southwestern
spec—special
spectrog—spectrograph, spectrographic, spectrography
spectrophotom—spectrophotometer, spectrophotometric, spectrophotometry
spectros—spectroscopic, spectroscopy
speleol—speleological, speleology
sr—senior
St—Saint, Street(s)
sta(s)—station(s)
statist—statistical, statistics
stomatol—stomatology
stratig—stratigraphic, stratigraphy
struct—structural, structure(s)
subcmt—subcommittee
subj—subject
substa—substation
suppl—supplement(s), supplemental, supplementary
supt—superintendent
supv—supervising, supervision
supvr—supervisor
supvry—supervisory
surg—surgical, surgery
surv—survey, surveying
Switz—Switzerland
symp—symposium(s)
syphil—syphilology
syst(s)—system(s), systematic(s), systematical

taxon—taxonomic, taxonomy
tech—technical, technique(s), technological, technology
tel—telegraph(y), telephone
Tenn—Tennessee
Terr—Terrace
Tex—Texas
theol—theological, theology
theoret—theoretical
ther—therapy
therapeut—therapuetic(s)
thermodyn—thermodynamic(s)
topog—topographic, topographical, topography
toxicol—toxicologic, toxicological, toxicology
trans—transactions
transl—translation(s), translator
treas—treasurer, treasury
trop—tropical
tuberc—tuberculosis
TV—television
twp—township

U.A.R—United Arab Republic
U.K—United Kingdom
UN—United Nations
unemploy—unemployment
UNESCO—United Nations Educational Scientific & Cultural Organization
UNICEF—United Nations International Childrens Fund
univ(s)—universities, university
UNRRA—United Nations Relief & Rehabilitation Administration
urol—urologic, urological, urology
U.S—United States
U.S.A—U.S. Army
U.S.A.A.F—U.S. Army Air Force
U.S.A.A.F.R—U.S. Army Air Force Reserve
U.S.A.F—U.S. Air Force
U.S.A.F.R—U.S. Air Force Reserve
U.S.A.R—U.S. Army Reserve
U.S.C.G—U.S. Coast Guard
U.S.C.G.R—U.S. Coast Guard Reserve
U.S.M.C—U.S. Marine Corps
U.S.M.C.R—U.S. Marine Corps Reserve
U.S.N—U.S. Navy
U.S.N.A.F—U.S. Naval Air Force
U.S.N.A.F.R—U.S. Naval Air Force Reserve
U.S.N.R—U.S. Naval Reserve
U.S.P.H.S—U.S. Public Health Service
U.S.P.H.S.R—U.S. Public Health Service Reserve
U.S.S.R—Union of Soviet Socialist Republics
U.S.W.M.C—U.S. Women's Marine Corps
U.S.W.M.C.R—U.S. Women's Marine Corps Reserve

Va—Virginia
veg—vegetable(s), vegetation
vent—ventilating, ventilation
vert—vertebrate
vet—veteran(s), veterinarian, veterinary
vinicult—viniculture
virol—virological, virology
vis—visiting
voc—vocational
vol(s)—voluntary, volunteer(s), volume(s)
v.pres—vice president
Vt—Vermont

w—west
W.A.C—Women's Army Corps
Wash—Washington
Wash, D.C—Washington, D.C.
W.A.V.E.S—Women accepted for Voluntary Emergency Service
west—western
WHO—World Health Organization
W.I—West Indies
wid—widow, widowed, widower
Wis—Wisconsin
W.R.C.N.S—Women's Royal Canadian Naval Service
W.R.N.S—Women's Royal Naval Service
W.Va—West Virginia
Wyo—Wyoming

YMCA—Young Men's Christian Association
YWCA—Young Women's Christian Association

zool—zoological, zoology

AMERICAN MEN OF SCIENCE

A

AALTO, DR. ENSIO E(MIL), b. Brooklyn, N.Y, Nov. 7, 22; m. 53; c. 3. COUNSELING PSYCHOLOGY. B.S, N.Y. Univ, 43, M.A, 45; Ph.D, Minnesota, 59. Dir. testing & instr. psychol, Champlain Col, Assoc. Cols, N.Y, 47-50; counsr, Minnesota, 52-55; instr. psychol, Oakland City Col, 55-58; asst. prof. & counseling psychologist, Cincinnati, 58-61; COUNSELING CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, BROCKTON, 61- Lectr, exten, Mass. State Col. Bridgewater, 61-65; exten, Stonehill Col.(Mass), 65- Consult, Mass. Correctional Inst, Bridgewater, 62-64; Mass. Rehab. Cmn, 64-65; psychol. serv. center, Stonehill Col.(Mass), 65- U.S.A.A.F, 45-47. Psychol. Asn; Personnel & Guid. Asn. Vocational measurement and evaluation; job and personal adjustment; rehabilitation counseling; group psychotherapy. Publ: Psychological factors associated with appropriateness and inappropriateness of vocational choice. Address: Sunset Lane, Rowayne Park, Bridgewater, Mass. 02324.

AARON, DR. HENRY JACOB, b. Chicago, Ill, June 16, 36; m. 63; c. 2. ECONOMICS. B.A, California, Los Angeles, 58; M.A, Harvard, 60, Ph.D.(econ), 63. Instr. econ, Harvard, 63-66; sr. staff economist, Coun. Econ. Adv, 66-67; res. assoc, Brookings Inst, 67; ASSOC. PROF. ECON, MARYLAND, 67- Consult, coun. econ. adv, Dept. Health, Ed. & Welfare, 67- Econ. Asn. Public finance; state and local taxation; income maintenance; special public finance problems of underdeveloped countries. Publ: Co-auth, Financing urban development in Mexico City, Harvard, 67 & Social security: perspective for reform, Brookings, 68; The economics of the war on poverty reconsidered, Am. Econ. Rev, 67. Address: Dept. of Economics, College of Business & Public Administration, University of Maryland, College Park, Md. 20742.

AARONS, DR. LOUIS, b. New York, N.Y, May 1, 31; m. 52; c. 3. PSYCHOLOGY. B.S, City Col. New York, 52, M.A, 54; Ph.D.(psychol), Chicago, 57. Asst. electroencephalog. & psychophysiol, Inst. Juvenile Res, 55-56; sensory deprivation, Chicago, 56-57; assoc. neurol. & psychiat. & dir. animal lab, med. sch, Northwestern, 57-62; supvr. life sci. group, develop. div, data & info. systs. div, Int. Tel. & Tel. Corp, 62-64; ASST. PROF. PSYCHIAT, ALBANY MED. COL, 64- Lectr, univ. col, Chicago, 57-61, intern, sch. med, 61-62. Consult, dept. nursing, Russell Sage Col, 65-68. AAAS; Psychol. Asn; Interam. Soc. Psychol; fel. Int. Coun. Psychol; Asn. Psychophysiol. Study Sleep. Psychophysiology; thinking; psychopathology. Publ: Exercise in operant conditioning: motion picture, 600 ft, Psychol. Cinema Register, 65; Balanced enclosed life space for humans: an overview, Symp, Psychological problems of man in space, Proc. Int. Cong. Psychol, Moscow, U.S.S.R, 66; Muscle tonus, word associations and sleep, Proc. Int. Psychosom. Week, Rome, Italy, 67. Address: Dept. of Psychiatry, Albany Medical College, Albany, N.Y. 12208.

AARONSON, DR. BERNARD S(EYMOUR), b. Bronx, N.Y, May 18, 24; m. 54; c. 1. PSYCHOLOGY. B.A, Illinois, 47; fel, Minnesota, 47-49, Ph.D.(psychol), 55. Clin. psychologist, Vet. Admin. Regional Off, Minn, 49-52; instr. psychol, exten. div, Minnesota, 52, asst, univ, 52-54, student counseling bur, 53-55; chief psychologist, New Castle State Hosp, Ind, 55-57; dir. psychol. dept, N.J. State Hosp, Trenton, 57-60; chief sect. clin. behav. sci, BUR. RES. NEUROL. & PSYCHIAT, 60-63, CHIEF SECT. EXP. PSYCHOL, 63- Lectr, Rider Col, 59-65; grad. sch. ed, Rutgers, 64. Consult, LaRue D. Carter Mem. Hosp, Ind. Mem. adv. bd, Found. for Mind Res. & sci. adv. cmt, Am. Schizophrenia Found, 67- U.S.A, 43-46. AAAS; Psychol. Asn; Geront. Soc; Soc. Clin. & Exp. Hypnosis; Soc. Clin. Hypnosis; N.Y. Acad. Sci. Altered states of consciousness; hypnosis; personality theory. Publ: Hypnosis, responsibility and the boundaries of self, Am. J. Clin. Hypnosis, 67; Recurrence of seizures in time, J. Nervous & Ment. Diseases; Dimension of personality change with aging, J. Clin. Psychol. Address: Bureau of Research in Neurology & Psychiatry, Box 1000, Princeton, N.J. 08540.

ABBATIELLO, DR. AURELIUS A, b. Chicago, Ill, Feb. 15, 24; m. 45; c. 4. PSYCHOLOGY. Ph.B, Loyola (Ill), 48, M.A, 52, Ph.D, 58. Staff psychologist, Am. Psychomet. Inst, 54-55; asst. indust. psychologist, Hawthorn Works, West. Elec. Co, 55-57, chief, psychol. testing & res, 57-65; DIR. EXAM. & RECRUITMENT, CHICAGO CIVIL SERV. CMN, 65- Instr, Hawthorne Club Eve. Sch, 55-59, chmn. dept. psychol, 59-65; lectr, inst. indust. psychol, De Paul, 59-64; inst. mgt, St. Procopius Col, 67- Mil. Intel, U.S.A, 42-45. Psychol. Asn. Test construction in areas of aptitude, achievement, personality and attitude; attitude surveys; personnel selection and evaluation; management training and development. Publ: Appraisal of occupational aptitudes test series, Houghton, 68; An objective evaluation of attitude change in training, Training & Develop. J, 11/67. Address: 522 N. Hamlin Ave, Chicago, Ill. 60624.

ABBEY, DR. DAVID S, b. Winnipeg, Man, July 20, 34; m. 56; c. 3. PSYCHOLOGY. B.A, Toronto, 58, Woodrow Wilson Nat. fel, 58, Can. Coun. scholarships, 58-60, M.A, 59, Ph.D.(psychol), 63. Sci. officer human factors, Defence Res. Med. Labs, Toronto, 61-63; asst. prof. psychol, Manitoba, 63-66; TORONTO, 66-67, ASSOC. PROF. ED. & ASST. COORDINATOR RES, 67- Res. consult, Off. Info. Serv, Royal Ont. Mus, Toronto, 58-63; Thistletown Hosp. Emotionally Disturbed Children, Rexdale, Ont, 62-; sch. dent. hyg. Manitoba, 63-66. Am. Psychol. Asn; Human Factors Soc; Ed. Res. Asn; Can Psychol. Asn. Psycholinguistics and psychoacoustics; communications; control-display-subject interaction; objective analysis of disturbed behavior; audience research. Address: Ontario Institute for Studies in Education, Toronto, Ont, Can.

ABBOTT, DEAN CHARLES C(ORTEZ), b. Lawrence, Kans, Oct. 30, 08; m. 34; c. 5. ECONOMICS. A.B, Harvard, 28, A.M, 30, Ph.D, 33. Instr. & tutor econ, Harvard, 32-37, asst. prof. bus. econ, grad. sch. bus. admin, 37-40, assoc. prof, 40-46, prof, 46-52, Converse prof. banking & finance, 52-54; DEAN GRAD. SCH. BUS. ADMIN, VIRGINIA, 54- Mem. faculty, Naval War Col, 48-50; Pac. Coast Banking Sch, Washington (Seattle), 52, adv. mgt. prog, col. bus. admin, 54; vis. prof, sch. bus. admin, California, 53. Econ. Asn; Finance Asn. Banking. Publ: The New York bond market, 1920-1930; Management of the federal debt; The federal debt. Address: Box 3607, University Station, Charlottesville, Va. 22903.

ABBOTT, DR. FRANK CURTIS, b. Newtonville, Mass, Dec. 12, 20; m. 48; c. 5. PUBLIC ADMINISTRATION. B.A, Cornell, 42, M.P.A, 49; Nat. Inst. Pub. Affairs, 42; Ph.D, Harvard, 56. Admin. asst. to provost, Cornell, 46-48, admin. asst. to pres, 48-49; asst. prof, polit. sci. & asst. dean, Bucknell, 58-61; prof, polit. sci, dean grad. sch. & acad. v.pres, Montana, 61-65, EXEC. DIR. COLO. CMN. HIGHER ED, 65- Staff assoc, Am. Coun. Ed, 51-58. U.S.N.R, 43-46, Lt. Polit. Sci. Asn; Asn. Higher Ed. Organization and management of colleges and universities; state and national governmental organization relating to higher education. Publ: Government policy and higher education; ed, Faculty-administration relations; Cambridge city manager, In: Public administration and policy development. Address: Colorado Commission on Higher Education, 719 State Service Bldg, Denver, Colo. 80203.

ABBOTT, DR. HENRY E(UGENE), JR, b. Trinidad, Colo, Mar. 20, 06; m. 37; c. 1. HUMAN FACTORS ENGINEERING, EDUCATIONAL ADMINISTRATION. A.B, Colorado, 30, M.Ed, 41; M.A, Columbia, 48, Ed.D.(ed. admin), 58. Supt. schs, Primero Pub. Schs, Colo, 38-42; secy, res. & develop. bd, Off. Secy. Defense, U.S. Air Force, 48-52, dep. dir, human factors res. & develop. hq, Air Res. & Develop. Command, 52-55, div. chief, Personnel Res. Lab, 58-59; engr, Melpar Inc, 59-60; PROG. DIR. SR. HUMAN FACTORS, CENTURY RES. CORP, 60- U.S.A.F, 42-59, Lt. Col. Human Factors Soc. Man-machine systems research and development, psychological research, development and education; training research and development. Address: 6316 Aqua Terrace, Falls Church, Va. 22041.

ABBOTT, DR. JAROLD G(UY), b. Webb City, Mo, Aug. 30, 34; m. 58; c. 1. ECONOMICS, PSYCHOLOGY. A.B, William Jewell Col, 56; Hicks fel. & Ph.D, Mass. Inst. Tech, 60. Asst. econ, William Jewell Col, 54-56; Mass. Inst. Tech, 58-59, instr, 59-60; assoc. area mgr. COMMUN, HAROLD ABBOTT & ASSOCS, INC, 60-61, AREA MGR, 61- Sponsor, Dale Carnegie & Assocs, Inc, 64- Econ. Asn; Indust. Rels. Res. Asn; Soc. Personnel Admin. Organizational policies in response to changes in economic environment; changes in concepts on management responsibility. Address: Harold Abbott & Assocs, Inc, 3706 Broadway, Kansas City, Mo. 64111.

ABBOTT, PROF. LAWRENCE, b. Cornwall, N.Y, July 9, 02; m. 32, 66; c. 3. ECONOMICS. A.B, Harvard, 24; A.M, Columbia, 45, Ph.D, 51. Instr. ECON, Columbia, 47-51; assoc. prof, Mt. Holyoke Col, 51-53; UNION COL.(N.Y), 53-56, PROF, 56-, chmn. dept, 62-66. Fulbright grant & lectr, Pierce Col, Athens, Greece, 67. Am. Econ. Asn; Indust. Rels. Res. Asn; Royal Econ. Soc. Economic theory; nonprice competition; monetary theory. Publ: The listener's book on harmony; Quality and competition; Economics and the modern World. Address: 3 Nicholas Ave, Schenectady, N.Y. 12309.

ABBOTT, PROF. NABIA, Islamic Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ABBOTT, DR. PRESTON S(ARGENT), b. Peabody, Mass, Nov. 26, 22; m. 47; c. 3. PSYCHOLOGY. A.B, Bates Col, 47; M.A, Hawaii, 48; Ph.D, Brown, 53. Res. psychologist, U.S. Air Force Personnel & Training Res. Center, Mather Air Force Base, Calif, 51-55; sr. res. scientist & exec. officer, training methods div, HumRRO, George Washington, 55-57; dir. res, human res. unit, Ft. Benning, Ga, 57-60; prog. dir, Human Ecol. Fund, 60-66; dir. soc. sci. res. inst, CENTER RES. SOC. SYSTS, 66-67, DIR, 67- U.S.A.A.F, 42-45. Fel. Psychol. Asn. Military psychology; cross cultural research; psychological assessment. Publ: Co-auth, Handbook of psychiatric rating scales, U.S. Govt. Printing Off, 66; auth, Teaching radar scope interpretation with motion pictures; Taste sensitivity of the Bufo marinus. Address: Center for Research in Social Systems, 5010 Wisconsin Ave, N.W, Washington, D.C. 20016.

ABBOTT, PROF. ROBERT FRANKLIN, b. Nashville, Tenn, Oct. 19, 27; m. 50; c. 2. PSYCHOLOGY, GUIDANCE. B.A, Cumberland, 51; M.A, George Peabody Col, 52; Ed.D, Tennessee, 63. Prin, elem. sch, Tenn, 52-53, teacher, high sch. & spec. ed, 53-55; counsr, Tenn. Div. Voc. Rehab, 55, spec. counsr. ment. ill, 55-57, supvr. spec. serv, 57-59; asst. prof. guid. & psychol, Middle Tenn. State, 59-63, assoc. prof, 63-67; PROF. COUNSR. ED. & PSYCHOL. & CHMN. DIV, ARKANSAS STATE, 67- Psychol. Asn. Prediction of educational achievement; social learning theory; counseling and school psychology; rehabilitation counseling. Address: 1107 Thrush Rd, Jonesboro, Ark. 72401.

ABBOTT, DR. ROGER S(LOANE), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

ABBOTT, PROF. SAMUEL L(EE), JR, b. Randolph, Vt, Sept. 19, 09; m. 33; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Middlebury Col, 31; M.A, Connecticut, 45; Ph.D.(ed. psychol), Duke, 52. Assoc. prof. ed. & psychol, E.Tenn. State Col, 48-49; from asst. prof. to assoc. prof, Radford Col, 49-55; PROF. ELEM. ED, PLYMOUTH STATE COL, 55- Psychology of teaching of arithmetic and learning; elementary education. Address: 143 Highland St, R.F.D. 2, Plymouth, N.H. 03264.

ABBOTT, DR. WILLIAM J, b. St. Louis, Mo, Mar. 26, 05; m. 29; c. 2. ECONOMICS. A.B, Missouri, 26; M.S.B.A, Washington (St. Louis), 39, Ph.D, 41. Secy-treas, Excelsior-Leader Laundry Co, 37-47; financial economist, FED. RESERVE BANK ST. LOUIS, 48-51, mgr. res. dept, 51-52, dir. res, 52-55, v.pres. in charge res, 55-58, ADV, 58- Central banks; money and banking; public finance. Address: 401 Delshire Place, Kirkwood, Mo. 63122.

ABBOUSHI, DR. WASIF F, b. Nazareth, Palestine, July 26, 31; U.S. citizen; m. 60; c. 2. POLITICAL SCIENCE. B.A, Great Lakes Col, 56; M.A, Detroit, 57; Ph.D.(polit. sci), Cincinnati, 59. Asst. prof. comp. govt, St. Francis Col, 60-61; lectr. soc. sci, Highland Park Col, 61-62; ASST. PROF, Wayne State, 62-65; POLIT. SCI, CINCINNATI, 65- Polit. Sci. Asn. Comparative governments. Publ: Political systems of the Middle East in the twentieth century, Dodd, 68. Address: Dept. of Political Science, University of Cincinnati, Cincinnati, Ohio 45221.

ABDULLAH, DR. FUAD A, b. Basrah, Iraq, Sept. 15, 30; m. 54; c. 4. ECONOMICS, INTERNATIONAL FINANCE. B.B.A, American Univ. Beirut, 52; M.B.A, Pennsylvania, 54, Ph.D.(econ), 57. Lectr. econ, Baghdad, 57-59; dir. gen. & chmn. bd, Grain Bd. Iraq, 59-63; ASST. PROF. econ, Pennsylvania, 63-65; FINANCE, TEMPLE, 65- Econ. Asn; Finance Asn. Problems of present international monetary system and search for adequate reform; the degree of compatibility of policies for the achievement of domestic goals and international equilibrium. Publ: Soviet economic aid to the Middle East, Econ. & Bus. Bull, Temple Univ, 3/67. Address: 9 Gamewell Lane, Willingboro, N.J. 08046.

ABEGGLEN, DR. JAMES C(HRISTIAN), b. Marshfield, Wis, Feb. 15, 26; m. 46; c. 2. SOCIOLOGY. Ph.D, Chicago, 56. V.PRES, BOSTON CONSULT. GROUP, INC, 65- U.S.M.C, 43-46, Sgt. Comparative industrial organization. Publ: The Japanese factory; Big business leaders in America; Occupational mobility in American business and industry, 1928-1952. Address: Boston Consulting Group, Inc, 100 Franklin Street, Boston, Mass. 02106.

ABEL, DR. FRED H(ERMAN), b. Remus, Mich, Nov. 21, 36; m. 60; c. 3. AGRICULTURAL ECONOMICS, ECONOMICS. B.S, Mich. State, 59, Ph.D. (agr. econ), 67; M.S, Delaware, 61. AGR. ECONOMIST, U.S. DEPT. AGR, 65- Agr. Econ. Asn; Econ. Asn; Statist. Asn; Economet. Soc. Agricultural production economics; production response; research methodology; econometrics. Publ: Michigan agriculture, county data and state trends, Miscellaneous Series Circular E-22, 62, & An economic analysis of quality losses in the marketing of Delaware potatoes, Bull. 343, 62, U.S. Dept. Agr. Address: U.S. Dept. of Agriculture, Economic Research Service, Farm Production Economic Division, Washington, D.C. 20250.

ABEL, PROF. HAROLD, b. New York, N.Y, July 31, 26; m. 49; c. 2. DEVELOPMENTAL PSYCHOLOGY. B.A, Syracuse, 49, M.A, 51, Ph.D.(psychol), 58. Teacher, pub. schs, N.Y, 50-52; asst. instr. elem. ed, Syracuse, 52-54, psychol, 54-56; assoc. prof. child develop. & dir. lab, Nebraska, 56-58, assoc. prof. child develop. & family rels. & head div, 58-63, chmn. dept. human develop. & family, 63-65, prof. human develop, 64-65; prof. ed. & dir. div. psycho-ed. studies, OREGON, 65-68, ASSOC. DEAN FACULTIES, 68- Consult, Off. Econ. Opportunity, Proj. Head Start, 65. V.pres, Governors Inter-Agency Cmt. Ment. Retardation, Nebr, 61-62; mem, Nat. Adv. Cmt. on Proj. Follow-Through, 67; Governor's Cmt. Aging, State Ore, 67-68. AAAS; Psychol. Asn; Soc. Res. Child Develop. Parent-child relations; early childhood education for disadvantaged children, especially curriculum development, children's learning problems and staff development procedures. Publ: Co-auth, Emergence of sex and race friendship preferences, Child Develop, 62; Identifying problems of adolescent girls, J. Ed. Res, 5-6/65; Preliminary development of scales to measure expressed parental attitudes and behavior, Family Life Coord, 10/66. Address: Dept. of Psycho-Educational Studies, School of Education, University of Oregon, Eugene, Ore. 97403.

ABEL, KENNETH N(ELSON) K(ISNER), b. Darby, Pa, July 3, 13; m. 40; c. 2. ECONOMICS, POLITICAL SCIENCE. A.B, Southern California, 35, scholar, 35-36; California, 36; American Univ, 41-46. Prof. econ. & bus. admin, Pacific (Calif), 38-40; personnel analyst, soc. security bd, Fed. Security Agency, 40-41; bus. economist, Off. Price Admin, 41-43; labor consult, forest prod. bur, War Prod. Bd, 43-44; economist & asst-in-charge wage & salary admin, Nat. Rwy. Labor Panel, 44-46; econ. analyst, U.S. Dept. Commerce, 46-51; supvry. economist, consumer durable goods br, Off. Price Stabilization, 51-53; surv. statistician, U.S. Dept. Army, 53-57, chief statist. & anal. br, Off. Chief of Ord, 57-61, acting chief financial anal. br, 62, chief financial rev. & eval, U.S. ARMY MAT. COMMAND, 62-63, CHIEF PROG. REV. & EVAL, 63- Econ. Asn; Statist. Asn; Acad. Polit. & Soc. Sci. Management; direct and indirect controls. Publ: Management studies on procurement and industrial mobilization; History of the consumer durable goods branch, 1951-53; contrib, Activities of the National Mediation Board, Britannica book of the year, 1947. Address: 9202 Worth Ave, Silver Spring, Md. 20901.

ABEL, DR. MARTIN E(RWIN), b. Lake Huntington, N.Y, Dec. 3, 34; m. 57; c. 2. AGRICULTURAL ECONOMICS, STATISTICS. B.S, Cornell, 56; Ph.D, Minnesota, 61. Agr. economist, econ. & statist. anal. div, U.S. DEPT. AGR, 61-65, staff asst, off. adminstr, econ. res. serv, 65-67, DEP. ASST. SECY. INT. AFFAIRS, 67- Econ. Asn; Agr. Econ. Asn; Statist. Asn; Economet. Soc. Price analysis, especially mathematical and statistical methods of investigating agricultural commodities. Publ: Co-auth, The World food situation, U.S. Dept. Agr, 67; Policies for expanding the demand for farm food products in United States. Address: Office of the Secretary, U.S. Dept. of Agriculture, Washington, D.C. 20250.

ABEL, DR. THEODORA MEAD, b. Newport, R.I, Sept. 9, 99; m. 23; c. 3. PSYCHOLOGY. A.B, Vassar, 21; dipl, Paris, 23; M.A, Columbia, 24, Ph.D, 25. Instr. psychol, Illinois, 24-26; fel, Nat. Acad. Sci-Nat. Res. Coun, 26-27; instr, Sarah Lawrence Col, 29-35; fel, Gen. Ed. Bd, 35-36; dir. res, Manhattan Trade Sch, 36-40; chief psychologist, ment. hyg. dept, Letchworth Village, N.Y, 40-46; DIR. PSYCHOL, POSTGRAD. CENTER PSYCHOTHER, 47- From adj. asst. prof. to adj. prof, Long Island, 51-59. Res. psychologist, Bellevue Hosp, 49-51. Res. consult, Columbia, 47-49; consult, Vet. Admin, N.J, 64- Mem. subcmt. fels. & grants, Off. Voc. Rehab, D.C, 61-63. Fel. Psychol. Asn; fel. Orthopsychiat. Asn.(v.pres, 57-58); fel. Soc. Proj. Tech.(pres, 47-49); Psychopath. Asn.(v.pres, 59-60). Perceptual, emotional and social problems of the mentally retarded; emotional problems of the facially disfigured; cultural aspects of psychotherapy. Publ: Dreams of a Chinese patient, In: Psychoanalytic study of society, Vol. II, Int. Univs, 64; Idiosyncratic and cultural variations in the resolution of oral-oedipal patterns, J. Psychol, 64; Psychodynamics as reflected in the Lowenfeld Mosaic Test, J. Soc. Psychol, 65. Address: Palisades, N.Y. 10964.

ABEL, PROF. THEODORE, b. Lodz, Poland, Nov. 24, 96; nat; m. 23; c. 3. SOCIOLOGY. M.A, Columbia, 23, Ph.D, 29. Asst. prof. SOCIOL, Illinois, 25-29; assoc. prof, Columbia, 29-50; prof, Hunter Col, 50-67; VIS. PROF, NOTRE DAME & FORDHAM, 68- Fel. Sociol. Asn. Sociological theory. Publ: Systematic sociology in Germany; Why Hitler came into power. Address: Palisades, N.Y. 10964.

ABELES, DR. NORMAN, b. Vienna, Austria, Apr. 15, 28; m. 57; c. 2. PSYCHOLOGY. B.A, N.Y. Univ, 49; M.A, Texas, 52, fel, 56-57, Ph.D, 58. Recreational therapist, Brown Schs. Exceptional Children, Tex, 51-52; asst. ed. psychol, Texas, 52-54, psychologist & counsr, testing & counseling center, 56-57; instr. PSYCHOL, univ. overseas prog, Maryland, 55-56; instr, MICH. STATE, 57-59, asst. prof, 59-64, assoc. prof, 64-68, PROF, 68-, ASST. DIR. COUNSELING CENTER, 65- Voc. consult, Soc. Security Admin, 62-; consult, U.S. Peace Corps, 65-; mem. Certification Cmn. on Psychologists in Mich, 63-66, chmn, 67- U.S.A, 54-56. Psychol. Asn. Personality theory and dynamics; counseling and psychotherapy; process of counseling and group dynamics; process of supervision of counselors and psychotherapists; theories of vocational choice. Publ: Therapeutic sensitivity and self consistency; Occupational image in the light of Erich Fromm's Orientations; Liking for clients: its relationship to therapists' personality, Psychother: Res. & Practice, 4/67. Address: Counseling Center, Michigan State University, East Lansing, Mich. 48823.

ABELL, PROF. HELEN C, b. Medicine Hat, Alta, Jan. 28, 17. RURAL SOCIOLOGY, AGRICULTURAL ECONOMICS. B.H.Sc, Toronto, 41; M.S. Cornell, 47, Ph.D.(rural sociol), 51. Head rural sociol. unit, econ. div, Can. Dept. Agr, 51-62; PROF. SOCIOL, dept. exten. ed, Guelph, 62-67; WATERLOO, 67- Consult, Can. Coun. Rural Develop, 65- Dir. first home econ. training course, UN Food & Agr. Orgn, Jamaica, 54-55, tech. expert socio-econ. res, North. Nigeria, 62; soc. affairs officer, UN, N.Y, 57-58; tech. expert commun. res, external aid off, Govt. Can, 64-65. Can. Women's Army Corps, 41-45, Capt. Can. Sociol. & Anthrop. Asn; Can. Agr. Econ. Soc; Can. Home Econ. Asn. Socio-economic research in rural areas. Publ: Co-auth, Rural Canada in transition, Can. Agr. Econ. Res. Coun, 66, Farm families today, Home Econ. Serv, Ont. Dept. Agr, 66 & An African experiment in radio forums for rural development Ghana 1964-65, UNESCO, 68. Address: Dept. of Geography & Planning, University of Waterloo, Waterloo, Ont, Can.

ABELL, DR. M(AX) F(LAVEL), b. Solvay, N.Y, Oct. 13, 88; m. 21; c. 4. AGRICULTURAL ECONOMICS. B.S, Cornell, 14, Ph.D.(farm mgt), 24. Asst, Ohio State, 14-15; farm crops, N.Y. State Col. Agr, 15-17; asst. prof. farm mgt, Conn. Col. Agr, 17-19; Mass. State Col, 19-26; FARM MGT. EXTEN, NEW HAMPSHIRE, 26-49, assoc. prof, 49-54, EMER. ASSOC. PROF, 54- Vet. Admin. appraiser, 50- U.S.M.C, 18-19. Farm Econ. Asn; Geog. Soc; Acad. Polit. Sci. Roughage and pasture production and management. Address: Dept. of Agricultural Economics, University of New Hampshire, Durham, N.H. 03824.

ABELL, DR. RICHARD G(URLEY), b. Philadelphia, Pa, Jan. 24, 04; m. 45; c. 1. PSYCHIATRY. A.B, Swarthmore Col, 26, Lockwood fel, 32-33; A.M, Pennsylvania, 30, Ph.D, 34, M.D, 47; cert, William Alanson White Inst, 57. Instr. zool, Pennsylvania, 28-30, fel. anat, sch. med, 30-36; instr, 36-40, assoc, 40-42, asst. prof, 42-47; intern, Bryn Mawr Hosp, Pa, 47-48; resident. & U.S. Pub. Health Serv. fel. psychiat, N.Y. Psychiat. Inst, 48-49; resident, Bellevue Hosp, 49-51; psychiatrist, Vet. Admin. Ment. Hyg. Clin, New York, 51-52; PRACTICING PSYCHOANALYST, 52- Mem. clin. staff, psychoanal. serv, William Alanson White Inst, 54-60, mem. faculty, 64-; lectr. ment. hyg. & consult. psychiatrist, Barnard Col, Columbia, 61-65; dir. group ther. serv, Roosevelt Hosp, New York, 65-; consult. psychiatrist, Greenwich Pub. Schs, Conn, 65-; First Presby. Church, Stamford, Conn, 67-Secy, Am. Found. Psychoanal. & Psychoanal. in Groups, 61- Fel. Am. Psychiat. Asn; fel. Am. Acad. Psychoanal; Am. Med. Asn; Am. Group Ther. Asn. Personality development; technics of psychoanalytic therapy; application of modern learning theory to psychoanalytic process; psychoanalysis in groups. Publ: Personality development during group psychotherapy: its relation to the etiology and treatment of the neuroses, Vol. XIX, No. 1 & Etiology and treatment of the passive male, Vol. XX, No. 2, Am. J. Psychoanal; Psychoanalysis as a creative process, Humanitas, Vol. I, No. 3. Address: 220 Central Park South, New York, N.Y. 10019.

ABELSON, PROF. HAROLD H(ERBERT), b. New York, N.Y, Sept. 25, 04; m. 26; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, City Col. New York, 24; A.M, Columbia, 25, Ph.D.(ed. psychol), 27. Tutor ed. psychol, CITY COL. NEW YORK, 24-27, instr, 28-34, asst. prof, 35-41, assoc. prof, 42-48, dir. ed. clin, 41-52, dean sch. ed, 52-66, PROF. ED. PSYCHOL, 48-, PROF, DIV. TEACHER ED, CITY UNIV. NEW YORK, 67-, acting univ. dean teacher ed, 66-67. Summers, vis. prof, Colorado, 38, New Sch. Soc. Res, 48-60, Cornell, 49-50, Hunter Col, 52-58. Consult, Adj. Gen. Off, War Dept, 44. Fel. AAAS; fel. Psychol. Asn; Ed. Res. Asn. Psychology of problem solving; methods of psycho-educational research; educational psychology as a systematic discipline; psychological case work; appraisal of personality; process of teaching and teacher education. Publ: Improvement of intelligence testing; Art of educational research. Address: 495 Odell Ave, Yonkers, N.Y. 10703.

ABELSON, DR. HERBERT I(RVING), b. Worcester, Mass, Jan. 13, 26; m. 53; c. 3. PSYCHOLOGY. A.B, Clark, 47; M.A, Maryland, 49, Ph.D, 52. Res. scientist, human resources off, George Washington 52-55; chief psychologist, OPINION RES. CORP, 56-62, V.PRES, 62-, CHMN. BD, E.L. REILLY CO, 66- Consult, opers. res. off, Hopkins, 52-54; Human Resources Res. Off, 56. AAAS; Asn. Pub. Opinion Res; Psychol. Asn. Public opinion and propaganda; industrial consumer, and personnel psychology. Publ: Persuasion. Address: Opinion Research Corp, Research Park, Princeton, N.J. 08540.

ABELSON, PROF. ROBERT P(AUL), b. New York, N.Y, Sept. 12, 28; m. 55. PSYCHOLOGY. B.S, Mass. Inst. Tech, 48, M.S, 50; Ed. Testing Serv. fel, Princeton, 50-52, Ph.D.(psychol), 53. Res. asst. PSYCHOL, YALE, 52-54, asst. prof, 54-60, assoc. prof, 60-63, PROF, 63- Fel, Center Adv. Study Behav. Sci, 57-58 & 65-66; mem. res. bd, Simulmatics Corp. Fel. Psychol. Asn; fel. Statist. Asn; Psychomet. Soc. Statistical methodology; attitude theory; computer simulation of attitude processes; mathematical models in social psychology. Publ: Co-auth, Candidates, issues and strategies, Mass. Inst. Tech. Press, 64; auth, Computer simulation of individual belief systems, Am. Behav. Sci, 65; Modes of resolution of belief dilemmas, J. Conflict Resolution. Address: 2115 Chapel St, New Haven, Conn. 06515.

ABERBACH, DR. JOEL DAVID, b. New York, N.Y, June 19, 40; m. 62; c. 2. POLITICAL SCIENCE. A.B, Cornell, 61; Harvard, 61-62; univ. fel. & M.A, Ohio State, 63; Falk fel. & M.A, Yale, 65, Nat. Sci. Found. & univ. fels. & Ph.D.(polit. sci), 67. Lectr. POLIT. SCI, MICHIGAN, 67-68, ASST. PROF, 68-, RES. ASSOC, INST. PUB. ADMIN, 67- Polit. Sci. Asn; Soc. Pub. Admin; Sociol. Asn. Political behavior, voting, race relations, racial politics, and political alienation; public administration, urban problems, administration and politics. Publ: Co-auth, Businessmen in politics, Law & Contemporary Probs, spring 62. Address: 1320 Wines Dr, Ann Arbor, Mich. 48103.

ABERCROMBIE, DR. C(HARLES) L(YNVAL), b. Decatur, Ark. MARKETING. B.S.B.A, Arkansas, 55, M.B.A, 56; Ph.D.(mkt), Illinois, 66. Staff asst, Southwest. Bell Tel. Co, 56-59; acct, dept. animal sci, Illinois, 59-63, instr. & asst. to dean, col. commerce & bus. admin, 64-65, instr. MKT, 65-66; ASST. PROF, Arkansas, 66-67; MISSOURI, COLUMBIA, 67- U.S.A, 56-58, Res, 58-66, Capt. Mkt. Asn; Econ. Asn. Consumer behavior, especially consumer expenditure studies as applied to various population groupings; consumer motivations, marketing systems and strategy. Address: Dept. of Marketing, University of Missouri, Columbia, Mo. 65201.

ABERLE, PROF. DAVID F(RIEND), b. St. Paul, Minn, Nov. 23, 18; m. 55; c. 1. ANTHROPOLOGY. A.B, Harvard Col, 40; Harvard, 46-47; Ph.D.(anthrop), Columbia, 50. Instr. soc. anthrop, Harvard, 47-50, res. fel. ment. health, sch. pub. health, 48-50; vis. assoc. prof, Page Sch. Int. Rels, Hopkins, 50-52; assoc. prof. sociol. & anthrop, Michigan, 52-58, prof, 58-60; Simon vis. prof. soc. anthrop, Manchester, Eng, 60-61; prof. ANTHROP. & chmn. dept, Brandeis, 61-63; PROF, Oregon, 63-67; BRITISH COLUMBIA, 67- Fel, Center Adv. Studies in Behav. Sci, 55-56. Mem. behav. sci. study group, Nat. Inst. Ment. Health, 57-60. Demobilization award, Soc. Sci. Res. Coun, 46-47. U.S.A, 42-46. Fel. Am. Anthrop. Asn; Sociol. Asn; Ethnol. Soc; Soc. Appl. Anthrop; Royal Anthrop. Inst. Gt. Brit. Cultural evolution; cultural ecology; kinship and social organization; religious movements; development and underdevelopment; Indians of the southwestern United States. Publ: Psychosocial analysis of a Hopi lifehistory, Comp. Psychol. Monogr. Series, 51; Chahar and Dagor Mongol bureaucratic administration: 1912-1945, Human Rels. Area Files, 62; The peyote religion among the Navaho, Aldine & Viking, 66. Address: Dept. of Anthropology & Sociology, University of British Columbia, Vancouver 8, B.C, Can.

ABERLE, PROF. E(LEANOR) KATHLEEN GOUGH, b. Hunsingore, Eng, Aug. 16, 25; m. 55; c. 1. ANTHROPOLOGY. B.A, Cambridge, 46, Ph.D.(soc. anthrop), 50. Brit. Treas. studentship, 50-53; Wenner Gren res. fel, 53-54; lectr, SOC. ANTHROP, Manchester, 54-55; Michigan, 57-58, Wayne State, 59-60; asst. prof, Brandeis, 60-62; hon. res. assoc, Oregon, 62-67; assoc. prof, SIMON FRASER UNIV, 67-68, PROF, 68- Soc. Sci. Res. Coun. res. grants, 55, 56, 64; Ford Found. res. grant, 58-59. Anthrop. Asn; Can. Sociol. & Anthrop. Asn; Royal Anthrop. Inst.(Curl Bequest prize, 53); Brit. Asn. Social Anthrop. Comparative kinship; social institutions of India; culture and personality; social change in developing societies; international conflict. Publ: Co-auth, Matrilineal kinship, Univ. Calif, 61, Concepts of Freedom in anthropology, Mouton, Paris, 63 & The dissenting academy, Pantheon, 67. Address: 4518 Marine Dr, West Vancouver, B.C, Can.

ABERLE, PROF. JOHN W(AYNE), b. Lodi, Calif, Aug. 12, 19; m. 43; c. 2. MARKETING. A.B, San Jose State Col, 41; M.B.A, Stanford, 47, Found. Econ. Adv. fel, 48, Ed.D, 55. Instr. MKT, SAN JOSE STATE COL, 47-49, asst. prof, 49-52, assoc. prof, 52-55, PROF. & CHMN. DEPT, 56- Ford Found. prof, Inst. Tech. & Higher Ed, Monterrey, Mex, 66-67. U.S.A, 43-46; Nat. Guard, 46-, Lt. Col. Mkt. Asn. Technical analysis of stock price and volume pattern in attempt to predict future price action. Publ: Co-auth General Business for today and tomorrow and Introduction to business, 2nd ed, Wadsworth, 66; auth, Readings in new enterprises, Saratoga, 67. Address: 13590 Saratoga Vista Ave, Saratoga, Calif. 95070.

ABERNATHY, PROF. MABRA GLENN, b. Birmingham, Ala, Nov. 25, 21; m. 49; c. 3. POLITICAL SCIENCE. B.S, Birmingham-South. Col, 42; M.A, Alabama, 47; Ph.D, Wisconsin, 53. Asst. city mgr, Mountain Brook, Ala, 47-48; instr. POLIT. SCI, Alabama, 48-49; asst. prof, SOUTH CAROLINA, 51-59, assoc. prof, 59-64, PROF, 64- Vis. asst. prof, Wisconsin, 59-60. Russell award creative res, South Carolina, 63. U.S.A.A.F, 42-46, Capt. Polit. Sci. Asn. Constitutional law; judicial administration; American government; American political theory. Publ: Right of assembly and association; Civil liberties under the constitution, Dodd, 68. Address: Dept. of Political Science, University of South Carolina, Columbia, S.C. 29208.

ABERNETHY, DR. BYRON R(OBERT), b. Beach, N.Dak, Feb. 18, 09. POLITICAL SCIENCE. A.B, N.Dak. State Teachers Col, 33; A.M, North Dakota, 38; Ph.D, Iowa, 41. Instr. polit. sci, North Dakota, 37-38; soc. sci, Albert Lea Jr. Col, 38-40; govt, Tex. Tech. Col, 41-43; dir. regional wage stabilization, Nat. War Labor Bd, 43-45, v.chmn, 45-46; assoc. prof. econ, Western Reserve, 46-47; prof. govt, Tex. Tech. Col, 47-57; ARBITRATOR LABOR-MGT. DISPUTES, 57- Regional dir. Nat. Wage Stabilization Bd, 51-53. Polit. Sci. Asn; Acad. Arbit; Acad. Polit. & Soc. Sci. Labor relations; use of the wage rate brackets. Publ: Ed, Private Elisha Stockwell, Jr, sees the Civil War; auth, Constitutional limitations on the state legislature; Some persisting questions concerning the constitutional state executive. Address: 3306-37th St, Lubbock, Tex. 79413.

ABERNETHY, DR. DAVID BEAVEN, b. Columbia, Mo, Apr. 23, 37; m. 62; c. 2. POLITICAL SCIENCE, COMPARATIVE POLITICS. B.A, Harvard, 59, Ph.D.(govt), 66; B.A, Oxford, 61. ASST. PROF. POLIT. SCI, STANFORD, 65- Lectr, Nigerian training groups, Peace Corps, summers, 66 & 67; Rockefeller Found. vis. lectr, Univ. Col, Dar es Salaam, 68-69. Chase prize, 66. Polit. Sci. Asn; African Studies Asn. Post-independence African politics; relationship between education and political development; design and implementation of development plans; race relations in Africa and the United States. Publ: Educational expansion and political development—an African case, Stanford, 69; co-auth, Education and politics in developing countries, Harvard Ed. Rev, summer 65; auth, Morality and Armageddon, Pub. Policy, 65. Address: Institute of Political Studies, Stanford University, 550 Salvatierra St, Stanford, Calif. 94305.

ABIDIN, DR. RICHARD ROBERT, JR, b. New York, N.Y, Sept. 5, 38; m. 58; c. 4. PSYCHOLOGY. B.A, Rutgers, 60, M.Ed, 62, Ed.D.(sch. psychol), 64. ASST. PROF. SCH. PSYCHOL, VIRGINIA, 67- Consult, Tex. Ed. Agency, 66-67. U.S.A.F, 64-67, Capt. Psychol. Asn; Int. Soc. Study Symbols (treas, 66-68). School and clinical psychology; psychodiagnostics—test development and clinical decision making; family therapy. Publ: KTSA symbolization norms for school-age children, 1/66 & The KTSA and emotional pathology in children, 8/67, J. Proj. Tech. & Personality Assessment; co-auth, Quick test validation study and examination of form equivalency, Psychol. Reports, 6/67. Address: 123 Mimosa Dr, Charlottesville, Va. 29903.

ABLAHAT, NEWTON A(NDRE), b. Chicago, Ill, Nov. 1, 14; m. 47; c. 1. STATISTICS. B.S.C, Northwestern, 37; Chicago, 40-41; Colorado, 43; American Univ, 65-66. Mgr. credit res, Spiegel, Inc, 38-40, dir. res, 46-50; economist, contract distribution, War Prod. Bd, 42; statistician, War Shipping Admin, 42-43; economist, For. Econ. Admin, 44-46; opers. analyst, opers. res. off, Hopkins, 53-56; from opers. analyst to mgt. scientist, Gen. Elec. Co, 56-58; opers. res. consult, Haskins & Sells, 58-59; consult. mgt. scientist, Gen. Elec. Co, 59-61; mgr. planning, Apparatenindustrie Defense Electronics, Holland, 61-62; consult, Gen. Elec. Co, 62-67; U.S. Dept. Transportation, 67; DIR. CORP. PLANNING, INVESTORS DIVERSIFIED SERV, INC, 67- Private practice, 50. Consult, Trans-World Asn, 46; bur. labor statist, U.S. Dept. Labor, 50-53; Am. Retail Fedn, 53. U.S.N, 43. Statist. Asn; Econ. Asn; Opers. Res. Soc.(award, 60); Inst. Mgt. Sci; Asn. Bus. Econ; Finance Asn. Operations research; price and cost of living indexes; science of management. Publ: An operations research approach to inventory control; Some statistical shortcuts in auditing; Life indexes, the sampling methodology. Address: 6525 Polar Circle, Edina, Minn. 55436.

ABLE, DR. ROBERT LOWRY, b. Louisville, Ky, Jan. 20, 26; m. 49; c. 2. ECONOMICS, MANAGEMENT SCIENCE. B.S, Louisville, 49; M.B.A, Kentucky, 55, Ph.D.(econ), 62. Asst. prof. air sci, Kentucky, 53-56; ASSOC. PROF. ECON, U.S. Air Force Acad, 62-68; COLORADO, CRAGMOR CAMPUS, 68-, lect, 65-67. Instr, Colo. Col, 66- U.S.A.F, 44-68, Lt. Col. Econ. Asn. Management development. Address: Dept. of Economics, School of Business, University of Colorado, Cragmor Campus, Colorado Springs, Colo. 80907.

ABLIN, DR. RICHARD S(AMUEL), b. Chicago, Ill, Apr. 20, 31; m. 57; c. 2. ECONOMICS. B.A, Chicago, 50, M.A, 53, Ph.D.(econ), 60; Frankfurt, 53-54. Mem. res. dept, Bank Israel, Jerusalem, 60-63; asst. prof. econ, State Univ. N.Y. Buffalo, 63-66; MEM. RES. DEPT, FED. RESERVE BANK NEW YORK, 66- Econ. Asn. Theory of economic policy for domestic and international equilibrium; welfare economic analysis of public taxation, expenditure and control measures. Publ: Household saving in Israel, Bull. Oxford Univ. Inst. Econ. & Statist, 66; Fiscal-monetary mix: a haven for the fixed exchange rate?, Nat. Banking Rev, 12/66; Income, capital mobility and the theory of economic policy, Kyklos, Fasc. I, 68. Address: Federal Reserve Bank of New York, 33 Liberty St, New York, N.Y. 10005.

ABLON, DR. JOAN, b. Dallas, Tex, Oct. 21, 34; m. 64. ANTHROPOLOGY. B.A, Texas, 55; M.A, Chicago, 58, Nat. Inst. Ment. Health fel. & Ph.D. (anthrop), 63. Res. anthropologist, sch. criminol, California, Berkeley, 63-66; N.Mex. State Div. Ment. Health, 66-67; Calif. Dept. Ment. Hyg. 67; ASST. PROF. ANTHROP, DEPT. PSYCHIAT, MED. CENTER, CALIFORNIA, SAN FRANCISCO, 68- Instr. criminol, exten. div, California, Berkeley, 65-Asst. prof, Nevada, summer 66. Fel. Anthrop. Asn. North American Indians; urban anthropology; urban ethnic and racial minority groups; cross-cultural education; action and applied anthropology. Publ: Relocated American Indians in the San Francisco Bay area: social interaction and Indian identity, Human Orgn, 64; American Indian relocation: problems of dependency and management in the city, Phylon, 65; An experimental high school project in cultural diversity, Univ. California, 66. Address: 55 Tara Rd, Orinda, Calif. 94563.

ABMA, DR. JOHN S, b. Grand Rapids, Mich, Oct. 16, 27; m. 60; c. 2. PSYCHOLOGY. A.B, Oberlin Col, 52; M.A, Mich. State, 54; Ph.D.(psychol), Ohio State, 61. Psychologist, Battelle Mem. Inst, 57-63; Wright-Patterson Air Force Base, Ohio, 63-65; ASSOC. PROF. PSYCHOL, WITTENBERG, 65-Psychol. Asn. Programmed instruction. Publ: Programmed instruction, In: Studies in industrial psychology, Dorsey. Address: Dept. of Psychology, Wittenberg University, Springfield, Ohio 45501.

ABNER, PROF. CARL E(DWIN), b. Moncton, N.B, Jan. 26, 20; m. 45; c. 3. ECONOMICS. B.A, Queen's (Can), 42; M.A, Columbia, 48. From asst. prof. to assoc. prof. ECON, LOUISVILLE, 49-68, PROF, 68- Can. Army, 42-46, Lt. Econ. Asn. International trade; money and banking; public finance. Publ: Income bonds revisited, Pub. Utilities Fortnightly; Economic effects of expressways. Address: Dept. of Economics, University of Louisville, Louisville, Ky. 40208.

ABORN, DR. MURRAY, b. New York, N.Y, July 15, 19; m. 61; c. 2. PSYCHOLOGY. B.S, City Col. New York, 42; M.A, Columbia, 47, Ph.D.(psychol), 50. Res. psychologist, U.S. Air Force, Personnel & Training Center, 52-57; ed. specialist, Indust. Col. Armed Forces, 57, proj. chmn, Spec. Opers. Res. Off, 58; exec. secy, behav. sci. training prog, Nat. Insts. Health, 58-63; PROG. DIR. SPEC. PROJS. SOC. SCI, NAT. SCI. FOUND, 63- U.S.A.A.F, 42-45, Sgt. AAAS; Psychol. Asn; Psychonomic Soc. Research methods in the behavioral sciences, language and communication. Publ: Influence of experimentally induced failure on the retention of material acquired through set and incidental learning, J. Exp. Psychol; co-auth, Perception of contextually dependent word-probabilities, Am. J. Psychol. & Psycholinguistics, Ann. Rev. Psychol. Address: National Science Foundation, G St. N.W, Washington, D.C. 20550.

ABOUCHAR, DR. ALAN, b. Brooklyn, N.Y, Mar. 4, 32; m. 60; c. 2. ECONOMICS. B.A, N.Y. Univ. 54, A.M, 60; M.A, California, Berkeley, 63, Ph.D. (econ), 66. Statistician, McKinsey & Co, 59-60; free lance transl, U.S. Dept. Commerce, 61-63; assoc. economist, Brookings Inst, 63-65; ASSOC. ECONOMIST, BRAZIL DEVELOP. ASSISTANCE PROG, CALIFORNIA, BERKELEY, 65- U.S.A, 55-58, Sgt. Econ. Asn; Statist. Asn; Asn. Adv. Slavic Studies; Economet. Soc; Asn. Study Soviet-Type Econ. Soviet economy; transportation economics and public policy in developing countries. Publ: The spatial efficiency of Soviet planning, Indiana Univ, 68; Rationality in the prewar Soviet cement industry, Soviet Studies, 10/67; Inflation and transport policy in Brazil, Econ. Develop. & Cultural Change, (in press). Address: Brazil Development Assistance Program, University of California, Berkeley, Calif. 94720.

ABOU-GHORRA, DR. IBRAHIM MANSOUR, b. Badari, Assyout, Egypt, Dec. 15, 19; U.S. citizen; m. 52. PSYCHOLOGY. B.A, Cairo, 41; dipl, Ain Shams, Cairo, 43; dipl, Inst. Grad. Studies, Cairo, 45; M.A, Ohio State, 47; Ph.D. (clin. psychol), 61. Lectr. psychology, Ain Shams, 45-46; intern clin. psychol, Bur. Juvenile Res, Columbus, Ohio, 48-49; Chillicothe Vet. Admin. Hosp, Ohio, 49; Los Angeles Psychiat. Serv, 53-54; res. fel, Southern California, 54-55; instr. philos, Los Angeles City Col, 55-56; PSYCHOL, FRESNO STATE COL, 56-57, asst. prof, 58-61, assoc. prof, 62-66, PROF, 67- Consult, Porterville State Hosp, Calif, 58-67; Atascadero State Hospital, Calif, 59-64. Private practice psychother, 62- Psychol. Asn. Measurement and application of creative processes in psychotherapy; study of determinants of change and modification of behavior; group dynamics and emergent leadership. Publ: Measurement of neglected aspects of creativity, Abstract, WPA, 4/64; Dynamic predictors of production of creative novel solutions in counseling, APA Proc, 65. Address: Dept. of Psychology, Fresno State College, Fresno, Calif. 93726.

ABRA, DR. JOHN CAMPBELL, b. Winnipeg, Man, Aug. 16, 39; m. 65. PSYCHOLOGY. B.A, Manitoba, 61, M.A, 64; Ph.D.(psychol), Northwestern, 66. ASST. PROF. PSYCHOL, CALGARY, 66-, Pres. Fund res. grant, 66-67. Nat. Res. Coun. Can. res. grant, 66-68. Can. Psychol. Asn. Human verbal learning and forgetting. Publ: Time changes in the strength of extinguished context and specific associations, J. Exp. Psychol, (in press); Time changes in the strength of forward and backward association, J. Verbal Learning & Verbal Behav, (in press). Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

ABRAHAM, PROF. HENRY J(ULIAN), b. Offenbach am Main, Germany, Aug. 25, 21; nat; m. 54. POLITICAL SCIENCE. A.B, Kenyon Col, 48; Dalton fel, Columbia, 48-49; M.A, 49; Ph.D.(polit. sci), Pennsylvania, 52. Instr. POLIT. SCI, PENNSYLVANIA, 49-53, asst. prof, 53-57, assoc. prof, 57-62, PROF, 62- Lectr, Swarthmore Col, 55-56, 61-62; Fulbright prof, Univs. Copenhagen & Aarhus, Denmark, 59-60; Nat. Sci. Found. fel, 62; vis. prof, City Univ. New York, 67. Summer vis. prof, Colorado, 64. Consult, Pub. Works Study, 56-57. Mem, Int. Inst. Ed, 61-63, chmn. screening bd. for Fulbright Candidates for Scandinavia, 62-63; mem. subcmt. curriculum & cmt. non-discrimination, Phila. Sch. Dist. Bd. Ed, 63-64; pres, Fel. Am. Studies, 64-65; bd. trustees, Temple Rodeph Shalom, Phila, 63-; bd. dirs, Phila. Region Anti-Defamation League, 66-; vis. cmt. govt. & bd. trustees, Lehigh, 65- U.S.A, 43-46. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Int. Polit. Sci. Asn. Constitutional law; comparative national government. Publ: Co-auth, Elements of democratic government, 4th ed, 64 & auth, The judicial process, 2nd ed, 68, Oxford; Freedom and the court, Oxford, 67. Address: 1243 Wyngate Rd, Wynnewood, Pa. 19096.

ABRAHAM, PROF. WILLIAM I(SRAEL), b. Philadelphia, Pa, Mar. 3, 19; m. 45; c. 4. ECONOMICS, STATISTICS. A.B, Pennsylvania, 40; M.B.A, Chicago, 42; Ph.D.(econ), Columbia, 53. Economist, War Prod. Bd, 42; statistician, nat. income res. statist. off, UN, 46-61, adv, nat. income statist, Econ. Cmn. Latin Am, 55-56; PROF. ECON, GRAD. SCH, N.Y. UNIV, 61- Vis. prof, Yale, 65. Adv, Cent. Bank of P.I, 52; for. adv, Ireland, 60; Indonesia, 62; Thailand, 63; Panama, 65; Brazil, 66; Malaysia, 67. Consult, Agency Int. Develop, 62-; develop. planning center, Nat. Planning Asn, 63-65; U.S. Census Bur. Mem. conf. res. income & wealth, Nat. Bur. Econ. Res. Sig.C, U.S.A, 43-45. Econ. Asn; Statist. Asn. Publ: Annual budgeting and development planning, Nat. Planning Inst, 65; National income and economic accounting, Prentice-Hall, 68; Saving patterns in Latin America, Econ. Develop. & Cultural Change, 64. Address: Dept. of Economics, New York University, 25 Waverly Place, Washington Square, New York, N.Y. 10003.

ABRAHAMS, DR. ALLEN E, b. Ithaca, N.Y. Nov. 6, 26; m. 49; c. 2. ECONOMICS. B.S, Maryland, 49, fel, 49-51; M.S, Stevens Inst. Tech, 54; Ph.D. (econ), N.Y. Univ, 60. Engr, Radio Corp. Am, 51-53; Suburban Propane Gas Corp, 53-55; dir. eng, Nat. Ammonia Co, 55-60; asst. prof. bus. admin, Oregon State, 60-61; mkt. res. mgr, Robert S. First, Inc, 61; mgr. commercial develop, Witco Chem. Co, 61-63; PROF. INDUST. MGT, POLYTECH. INST. BROOKLYN, 63-; EXEC. DIR. INTERAMER RES. CORP, 63- Consult, California, Los Angeles, 64; adv, UN Spec. Fund, 66, consult, UN Indust. Develop. Orgn, 66-67. U.S.N, 44-46, Res, 46-, Lt.(jg). AAAS; Econ. Asn; Chem. Soc; Mkt. Asn; Asn. Bus. Econ; Soc. Int. Develop. Chemical industry economics and history; commercial evaluation; technical marketing research and management; business economics and planning; international development and economics; Latin America. Publ: Growth of competition in the nitrogen industry; co-auth, Chemical opportunities in the emerging nations, Am. Chem. Soc. Chem. Mkt. & Econ. Symp. Series, 9/65; auth, Engineers and economists in Brazil's underdeveloped northeast, Int. Sci. & Tech, 12/66. Address: Interamer Research Corp, Gurley Bldg, Stamford, Conn. 06901.

ABRAHAMSEN, DR. MARTIN A, b. Wittenberg, Wis, July 1, 08; m. 36; c. 1. AGRICULTURAL ECONOMICS. B.E, Wis. State, River Falls, 30; M.A, Wisconsin, 33, Ph.D, 40. Teacher, pub. sch, Wis, 30-32; asst. agr. econ, Wisconsin, 33-36; from asst. prof. to prof, West Virginia, 36-45; prof, N.C. State Col, 45-49; in charge purchasing sect, farm credit admin, U.S. DEPT. AGR, 49-53, dir. purchasing div, FARMER COOP. SERV, 54-62, DEP. ADMINSTR, 62- Coop. specialist, World Agr. Fair, India, 59-60. Farm Econ. Asn; Mkt. Asn. Research, education and advisory work in agricultural cooperatives, especially on administration; vocational agriculture teaching. Publ: Co-auth, Selected readings: agricultural cooperation; auth, Livestock marketing agencies in West Virginia, W.Va. Univ. Bull; Business research of regional farm supply coops. Address: Farmer Cooperative Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

ABRAHAMSEN, DR. SAMUEL, b. Trondheim, Norway, Oct. 28, 17; nat; m. 47; c. 2. POLITICAL SCIENCE. B.A, Royal Frederik's Univ, 37; M.A, Oslo, 39; Am-Scandinavian Found. fel, California, 40-41; Cambridge, 43; Leach fel, New Sch. Soc. Res, 49-51, Ph.D.(polit. sci), 55. Instr. Norwegian, Sch. Gen. Studies, City Col. New York, 54-58, econ, Bronx Community Col, 60-63; ASST. PROF. COMP. & INT. ED, BROOKLYN COL, 63- Lectr, Jewish Center Lect. Bur, Nat. Jewish Welfare Bd, N.Y, 48-; guest lectr, New Sch. Soc. Res, 49; instr, Berlitz Sch. For. Langs & int. motion picture div, U.S. Dept. State, 49-51; instr, high sch, 51-63; Hebrew Union Col, 55-57; mem. faculty adult acad, Congregation Beth Elohim, Brooklyn, N.Y, 55-60; New York Coun. Econ. Ed. fel, grad. sch. bus. admin, N.Y. Univ, 61, mem. faculty dept. hist. & philos. ed, 67-68; res. assoc, int. proj. eval. ed. attainment on civic ed. in ten countries, UNESCO, 67- Summers, mem. faculty int. summer sch, Oslo, 59, sch. ed, Cornell, 67. Ed. consult, Jewish Ed. Cmt, New York, 56- Ed, Lux et Veritas, Doctorate Asn. of N.Y. Educator, 58-62. Adv. cmt. fel. & grants, Am-Scandinavian Found, 66-, chmn. library cmt, 67- Am. Jewish Cong. del, World Jewish Cong, Sweden, 59; secy, center migration studies, Brooklyn Col, 65-68; adv, Acad. Coun, Am. Col. Jerusalem, 66-68; mem. adv. bd, prog. study abroad, City Univ. New York, 67-, res. affiliate, center urban ed, 68-; mem. cmt. pub, Am-Scandinavian Found, 68- St. Olav Medal, Norway, 68. Royal Norwegian Army, 42-45. Polit. Sci. Asn; Econ. Asn; Soc. Adv. Scandinavian Study; Mod. Lang. Asn; Acad. Polit. & Soc. Sci; Comp. Ed. Soc. Scandinavian political history; international relations; economics; Germanic philology. Publ: Say it in Norwegian; Sweden's foreign policy; Linguistic controversy of modern Norway—a study in cultural change, In: Scandinavian studies, Univ. Washington, 65. Address: University Plaza, 100 Bleecker St, Apt. 28A, New York, N.Y. 10012.

ABRAHAMSON, PROF. ALBERT, b. Portland, Maine, Nov. 4, 05. ECONOMICS. A.B, Bowdoin Col, 26; A.M, Columbia, 27. Instr. ECON, BOWDOIN COL, 28-30, asst. prof, 30-36, assoc. prof, 36-47, PROF, 47- Economist, Cabinet Cmt. Price Policy, 34-35; state adminstr, Works Progress Admin, 35-37; exec. dir. Jewish Occup. Coun, 39-40; Nat. Refugee Serv, 41-43; asst. exec. dir, U.S. War Refugee Bd, 44-45; econ. adv, Off. Price Admin, 45; spec. asst. U.S. Secy. Labor, 45-46; consult. U.S. Nat. Security Resources Bd, 50-51; President's Mat. Policy Cmn, 51; nat. manpower coun, Columbia, 55-62; consult & sr. staff assoc, off. sci. resources planning & off. planning and policy studies, Nat. Sci. Found, 64-67. Mem, Panel Labor Mediators, 57-63; chmn. state adv. cmn, U.S. Civil Rights Cmn, 58-60; mem, Econ. Adv. Bd, 59-63. Off. Strategic Serv, A.U.S, 43-44. AAAS; Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn. Labor economics; public administration; science policy. Publ: Co-auth, Price and price policy, McGraw, 38. Address: Dept. of Economics, Bowdoin College, Brunswick, Maine 04011.

ABRAHAMSON, JOHN D(EINHART), b. Chisholm, Minn, Oct. 10, 09; m. 38; c. 1. ECONOMIC GEOGRAPHY. A.B, Chicago, 35, S.M, 36; Michigan, 40-41. Instr, high sch, Ill, 37-39; geologist, Ogden Eng. Co, 39-40; chief, econ. resources br, Mo. River Basin, U.S. Bur. Reclamation, 46-53, resource economist, div. proj. develop, 53-55; economist, area develop. div, U.S. Dept. Commerce, 56-58; economist & asst. chief, econ. br, bur. commercial fisheries, U.S. Fish & Wildlife Serv, 58-62; asst. chief, projs. develop. staff, BUR. INDIAN AFFAIRS, 62-65, ECONOMIST, 65- Prof. lectr, George Washington, 54-55. Chief, map design unit, Off. Strategic Servs, 42-43; div. maps & graphics, For. Econ. Admin, 43-45; consult, Fed. Field Cmt. Develop. Planning Alaska, 67; summer consult, Man, Dept. of Indust. & Commerce, Can, 64. Asn. Am. Geog; Geog. Soc; Econ. Asn. Resources development and regional economic development. Publ: Westward Alaska, the native economy and its resource base, (in press). Address: 3127 Patterson Place, N.W, Washington, D.C. 20015.

ABRAHAMSON, DR. MARK J, b. Chicago, Ill, Feb. 8, 39; m. 60; c. 3. SOCIOLOGY. B.S, Illinois, Urbana, 60; Ph.D.(sociol), Washington (St. Louis), 63. Asst. prof. SOCIOL, Ill. Inst. Tech, 63-66, ASSOC. PROF. 66-67; SYRACUSE, 67- Sociol. Asn. Formal organizations; social psychology. Publ: Interpersonal accommodation, 66 & Introductory sociology, (in press), Van Nostrand; The professional in the organization, Rand McNally, 67. Address: Dept. of Sociology, Syracuse University, Syracuse, N.Y. 13210.

ABRAHAMSON, DR. SHERMAN R, b. Duluth, Minn, Nov. 13, 20; m. 44; c. 2. GEOGRAPHY, ECONOMICS. B.S, Minnesota, 43; fel, Clark, 47-48, M.A, 48, Ph.D.(geog), 49; vis. scholar & spec. auditor, Harvard, 61-62. Chief, geog. unit, res. & develop. br, Off. Qm. Gen, 48-50; specialist econ. geog, U.S. Bur. Mines, 50-53; geogr-economist, U.S. Govt, 53-65, DEP. DIR, OFF. EXPORT CONTROL, U.S. DEPT. COMMERCE, 65- Prof. lectr, George Washington, 50-65. Consult, cmt. geophys. & goeg, res. & develop. bd, U.S. Dept. Defense, 49. U.S.A.A.F, 42-45, Lt. Asn. Am. Geog; Econ. Asn. Economic and geographic aspects of energy resources and minerals of strategic significance. Publ: The shifting geographic center of petroleum production and its effect on pricing systems & Petroleum in the Soviet Union, Econ. Geog. Address: 3705 King Arthur Rd, Annandale, Va. 22003.

ABRAMOVITZ, PROF. MOSES, b. Brooklyn, N.Y, Jan. 1, 12; m. 37; c. 1. ECONOMICS. A.B, Harvard, 32; Ph.D, Columbia, 39. Instr. & tutor, Harvard, 36-38; lectr, Columbia, 40-42, 47; prin. economist, War Prod. Bd. & Off. Strategic Serv, 42-46; PROF. ECON, STANFORD, 48- Vis. prof, Pennsylvania, 55; fel, Center for Adv. Study in Behav. Sci, 61-62. Mem. res. staff, Nat. Bur. Econ. Res, 38-; econ. adv. to Secy. General, Orgn. Econ. Coop. & Develop, 62-63. Seligman prize, 39. U.S.A, 44-45. Am. Econ. Asn; fel. Statist. Asn; Economet. Soc; Econ. Hist. Asn; fel. Am. Acad. Arts & Sci; Royal Econ. Soc. Business cycles; economic growth. Publ: Price theory for a changing economy; Inventories and business cycles. Address: Dept. of Economics, Stanford University, Stanford, Calif. 94305.

ABRAMS, DR. ARNOLD, b. Buffalo, N.Y, Dec. 14, 21; m. 48; c. 4. CLINICAL PSYCHOLOGY. A.B, Brooklyn Col, 46; M.A, Columbia, 48; Ph.D.(clin. psychol), N.Y. Univ. 52. Res. scientist, Psychiat. Inst. & Sing Sing Prison, 49-52; assoc. res. scientist, N.Y. State Ment. Health Cmn, 52-54; instr. psychol, grad. sch, Syracuse, 54-56; assoc. prof. neurol. & psychiat, med. sch, Northwestern, 56-59; ASST. PROF. PSYCHOL, MED. SCH, CHICAGO, 59-, dir. psychol. res, res. inst, 61-64. Consult, White House Conf. Narcotics & Drug Abuse, 62. Dir. res, narcotic addiction prog, Cook County Jail, Ill, 56-59; proj. dir. & prin. investr, Chicago Area Plan for Workers' Ment. Health, 64-66. Mem. sub-cmt. corrections, pub. policy cmt, Welfare Coun. Metrop. Chicago, 63- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. U.S.A, 43-46, Sgt. AAAS; fel. Psychol. Asn; Am. Med. Asn; Pub. Health Asn. Personality theory, particularly relating levels of organization and development concepts for understanding and treating the blue-collar worker. Publ: Unfinished tasks in the behavioral sciences, Williams & Wilkens, 64; Workers' mental health, Columbia, 68; Psychosocial aspects of drug addiction, Am. J. Pub. Health, 68. Address: 4850 S. Kimbark, Chicago, Ill. 60615.

ABRAMS, CHARLES, Urban Sociol, see 10th ed, Soc. & Behav. Vols.

ABRAMS, H. LEON, JR, b. Floyd Co, Ga, Apr. 23, 25. ANTHROPOLOGY, SOCIOLOGY. A.B, Emory, 49; M.A, Univ. of the Americas, 50; California, Los Angeles, 51-53; Ed.S, Peabody Col, 58. Head dept. soc. sci, Am. Sch. Tegucigalpa, Honduras, 56; dir, Anglo-Am. Col, Oruro, Bolivia, 56-57; prin, Am. Sch. Rio de Janeiro, Brazil, 57-58; instr. anthrop. & sociol, St. Petersburg Jr. Col, 58-59; res. grant, nutrit. anthrop, Page Found, Inc, 59-60; PROF. SOCIOL. & ANTHROP. & CHMN. DEPT. SOCIOL, BLOOMFIELD COL, 60- Consult. anthropologist, Page Found, 63- U.S.M.C, 43-45, Sgt. Fel. Anthrop. Asn; Sociol. Asn; Asia Soc. Codices, especially Aztec and Meso-American hieroglyphic books; nutritional anthropology; ethnology; social anthropology; social processes. Publ: Co-auth, Health versus disease, Page Found, 60; auth, Coffee, Mod. Nutrit, 60; Endocrinographic differences among the Tarascans, Katunob, 65. Address: Dept. of Sociology, Bloomfield College, Bloomfield, N.J. 07003.

ABRAMS, DR. ISRAEL JACOB, b. Syracuse, N.Y, June 11, 26. MATHEMATICAL STATISTICS. B.A, California, 50, M.A, 52, Ph.D.(math. statist), 57. Asst, California, 50-57; math. statistician, Space Tech. Labs, 57-61; V.PRES. TECH, MKT. RES. CORP. AM, 61- Lectr, exten, California, Los Angeles, 59-60. U.S.A, 45-47, Sgt. AAAS; Inst. Math. Statist; Statist. Asn; Oper. Res. Soc; Soc. Indust. & Appl. Math; Asn. Comput. Mach; Mkt. Asn. (ed. comput. sect, J. Mkt. Res, 67-); Inst. Mgt. Sci; Sociol. Asn. Marketing research; applied statistics; computer systems design; operations research. Publ: A note on the optimal character of the (s, S) policy in the inventory problem, In: Publications in Statistics, Univ. California, 56; Mathematical models applied to consumer purchasing behavior, In: Business Economics, spring 67. Address: Market Research Corp. of America, 122 E. 42nd St, New York, N.Y. 10017.

ABRAMS, DR. JULES C(LINTON), b. Philadelphia, Pa, June 4, 27; m. 55; c. 4. PSYCHOLOGY. B.A. & M.A, Temple, 49, Ph.D.(psychol), 55. Clinician, diagnostic div, Reading Clin, Temple, 50-52, asst. supvr, 52-54; dir. Reading Improvement Inst, 55-64; assoc. PSYCHIAT, HAHNEMANN MED. COL. & HOSP, 59-64, asst. prof, 64-67, ASSOC. PROF, 67-, HEAD PSYCHOL. SECT, 67-, DIR, INST. LEARNING, 64- Lectr, Inst. Phila. Soc. Psychoanal, 64-65; dir, Parkway Day Sch, 67- AAAS; Psychol. Asn; Asn. Child Psychoanal; Soc. Proj. Tech; Acad. Relig. & Ment. Health; N.Y. Acad. Sci. Severe reading disabilities; ego disturbance; severe learning disability; dyslexia; treatment of the brain-damaged child; diagnosis of minimal cerebral dysfunction; emotional problems related to reading failure. Publ: New concepts in the diagnosis of reading disability, Syracuse Univ, 64; Reading disability: a new therapeutic approach and its implications, J. Clin. & Exp. Psychopath; Teaching reading to neurologically handicapped children, In: Reading for effective living. Address: 1505 Paper Mill Rd, Philadelphia, Pa. 19118.

ABRAMS, PROF. RAY H(AMILTON), b. Patchogue, N.Y, Nov. 19, 96; m. 29. SOCIOLOGY. A.B, Richmond, 18; A.M, Pennsylvania, 21, Ph.D, 31. Instr. SOCIOL, PENNSYLVANIA, 30-39, asst. prof, 39-55, assoc. prof, 55-67, EMER. ASSOC. PROF, 67- Sociol. Asn; Soc. Proj. Tech. Social institutions; marriage and the family; medical sociology. Publ: Preachers present arms: study of war-time attitudes and activities of the churches & clergy in the United States from 1914 to 1918; ed, The American family in World War II & Organized religion in the United States, Ann. Am. Acad. Polit. & Soc. Sci. Address: 408 S. Lansdowne Ave, Lansdowne, Pa. 19050.

ABRAMSON, DR. ADOLPH G(RAUDAN), b. Piedmont, W.Va, Aug. 27, 08. ECONOMICS. A.B, West Virginia, 29; A.M, Brown, 36, univ. fel, 36-37, Ph.D, 41; fel, Brookings Inst, 37-38. Mem. staff, Gen. Elec. Co, 29-34; asst. econ, Brown, 34-36; res. economist, Temporary Nat. Econ. Cmn, 38-40; DIR. ECON. PLANNING, SKF INDUSTS, INC, PHILA, 40- Lectr, evening div, Temple, 43-55. Mem. appraisal cmt, bus. econ. center, Lehigh Univ, 66-; econ. adv. bd, U.S. Secy. of Commerce, 67; bd. dirs, Nat. Bur. Econ. Res, 68. Econ. Asn; Statist. Asn; Nat. Asn. Bus. Econ. Techniques of business forecasting; stabilization of economic activity through action by business organizations and firms. Publ: Ed, Operations forecasting, Monogr, Mkt. for Exec. Series, Am. Mkt. Asn, 67. Address: Beaver Hill Apts, 304 West, Jenkintown, Pa. 19046.

ABRAMSON, DR. DAVID A, b. New York, N.Y, Dec. 26, 14; m. 41; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 34, M.S, 42; Ph.D, N.Y. Univ, 59. Teacher, high schs, N.Y, 35-42, 46-55; res. assoc. BUR. ED. PROG. RES, NEW YORK BD. ED, 56-61, ASST. DIR, BUR. CURRICULUM RES, 62- Private practice, 46-; lectr, N.Y. Univ. & Yeshiva, 60- Consult, State Dept. Ed, N.Y, 60-61. U.S.A, 42-46, 1st Lt. Psychol. Asn; Ed. Res. Asn; Inter-Am. Soc; Psychol. Coun. Measurement in Ed. Design of research in psychology and education; test construction, evaluation and measurement. Publ: Effectiveness of grouping for students of high ability; Forecast of teacher needs of the New York City schools; Study of the home instruction program, New York City. Address: 10-37 Annapolis St, Far Rockaway, N.Y. 11691.

ABRAMSON, DR. LEONARD S(OLOMON), b. Aberdeen, S.Dak, Nov. 8, 16; m. 51; c. 2. PSYCHOLOGY. B.A, Minnesota, 38, M.A, 44; Ph.D.(psychol), Pittsburgh, 50. Voc. counsr-psychologist, United Voc. & Employ. Serv, Pa, 44-46; sr. psychologist, State Hosp, Woodville, Pa, 46-48; instr. & supvr, psychol. clin, Nebraska, 48-49; chief clin. psychologist, Vet. Admin. Hosps, Knoxville, Iowa, 49-52, asst. chief clin. psychologist & coordinator res, East Orange, N.J, 52-57, chief psychologist, Ft. Meade, S.Dak, 57-61, East Orange, N.J, 61-67; CONSULT. PSYCHOLOGIST, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 55. Fel. AAAS; fel. Psychol. Asn; fel. Soc. Proj. Tech; Research Soc; Acad. Psychother. Projective techniques; psychotherapy. Publ: Counselees' ratings of formative influences upon vocational choice, J. Ed. Psychol; Influence of set for area upon Rorschach test results, J. Consult. Psychol; Gerstmann symptoms following electroshock treatment, Arch. Neurol. Psychiat. Address: 10 Longview Rd, Livingston, N.J. 07039.

ABRAMSON, DR. PAUL R, b. St. Louis, Mo, Nov. 28, 37; m. 66. POLITICAL SCIENCE, SOCIOLOGY. B.A, Washington (St. Louis), 59; Woodrow Wilson fel. & M.A, California, Berkeley, 61, univ. fel. & Ph.D.(polit. sci), 67. ASST. PROF. POLIT. SCI, MICH. STATE, 67- Mem, Midwest Conf. Polit. Sci. U.S.A, 60-62, 1st Lt. Polit. Sci. Asn; Sociol. Asn. Comparative politics; political socialization; sociology of education and of science. Publ: The differential political socialization of English secondary school students, Sociol. of Ed, summer 67. Address: Dept. of Political Science, S. Kedzie Hall, Michigan State University, East Lansing, Mich. 48823.

ABRAVANEL, DR. EUGENE, b. New York, N.Y, Aug. 4, 34. PSYCHOLOGY. B.A, Michigan, 57; M.A, Swarthmore Col, 62; Ph.D.(develop. psychol), California, Berkeley, 65. ASST. PROF. PSYCHOL, San Francisco State Col, 65-67; GEORGE WASHINGTON, 67- Consult, cardiac res. proj, inst. med. sci, Presby. Med. Center, 65-67. Psychol. Asn; Soc. Res. Child Develop. Developmental psychology, especially the ontogenesis of perceptual and cognitive functions. Publ: Developmental changes in the intersensory patterning of space, Proc. 75th Annual Convention, Am. Psychol. Asn, 67; The development of intersensory patterning between visual and haptic sense-modalities, Monogr. Soc. Res. Child Develop, 4/68. Address: Dept. of Psychology, George Washington University, Washington, D.C. 20006.

ABSHIER, DR. GEORGE S(TANLEY), b. Rockport, Ind, Feb. 17, 19; m. 46; c. 3. AGRICULTURAL ECONOMICS. B.S, Purdue, 41, Ph.D.(agr. econ), 48; M.S, Maryland, 42. Grain mkt. specialist, Purdue, 48-50; fruit & veg. mkt. specialist, N.C. State Col, 50-55, consumer mkt. specialist, 55-59; exten. agr. economist, OKLA. STATE, 59-68, DIR. COMMUNITY & INDUST. PROGS, 68- U.S.N.R, 42-46, Lt.(jg). Agr. Econ. Asn. Consumer food marketing; fruit, vegetable and grain marketing. Publ: Co-auth, Prepackaging lettuce, Financial and business analysis of Indiana grain elevators & Management for agricultural marketing firms. Address: Dept. of Agricultural Economics, Oklahoma State University, Stillwater, Okla. 74075.

ABT, DR. CLARK CLAUS, b. Cologne, Germany, Aug. 31, 29; U.S. citizen; m. 63. SOCIAL SCIENCE. B.S, Mass. Inst. Tech, 51, Ph.D.(polit. sci), 65; M.A, Hopkins, 52. Engr, Bechtel Corp, Calif, 52; mgr. adv. systs. & strategic studies depts, Raytheon Co, Mass, 57-65; PRES. ED, ECON, POLIT. & SOC. RES, ABT ASSOCS. INC, 65- Vis. lectr, Harvard, 67-68; dir, Baltimore Women's Job Corps Center, 67. U.S.A.F.R, 52-57. Education systems analysis; curriculum & economic development; urban planning; technological forecasting; arms control; international relations. Publ: National opinion and military security, J. Conflict Resolution, 9/65; Educational games, Nation's Schools, 10/67; Games for learning, In: Simulation games in learning, Sage Pub, 68. Address: Abt Associates, Inc, 55 Wheeler St, Cambridge, Mass. 02138.

ABT, DR. LAWRENCE EDWIN, b. Canton, Ohio, Jan. 5, 15; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.S, N.Y. Univ, 36, Ph.D.(psychol), 47; M.A, Columbia, 39. Private practice, 39-; consult. clin. psychol, cent. off, Vet. Admin, 49-64. U.S.N.R, 42-46, Lt. Comdr. Fel. AAAS; fel. Psychol. Asn; fel. Orthopsychiat. Asn. Psychotherapy; human engineering. Publ: Projective psychology; Progress in clinical psychology; co-auth, Acting out, Grune, 65. Address: 151 Rockland Ave, Larchmont, N.Y. 10538.

ABT, SEYMOUR THEODORE ROOSEVELT, b. New York, N.Y, Jan. 6, 19; m. 41; c. 3. ECONOMICS, OPERATIONS ANALYSIS. A.B, N.Y. Univ, 39; M.A, Columbia, 40; American Univ, 46-51. Chief rwy. sect, off. int. trade, U.S. Dept. Commerce, 46-50, head transportation studies, opers. res. off, 50-52; dir. res, Giant Foods, Inc, 52-53; div. oper. mgr. Stix, Baer & Fuller Co, Mo, 53-63; supt. serv, Hecht Co, D.C, 63-66; STORE MGR, THE BROADWAY, 66- Lectr, American Univ, 49-53; Washington (St. Louis), 55-63. U.S.A, 43-46, 1st Lt. Econ. Asn; Opers. Res. Soc. Operations research; marketing, especially retailing. Address: 8679 W. Olympic Blvd, Los Angeles, Calif. 90035.

ABU-JABER, DR. FAIZ, b. Yadudeh, Jordan, Mar. 16, 27; U.S. citizen; m. 53; c. 2. POLITICAL SCIENCE. B.A, Syracuse, 54, M.A, 57, Ph.D.(polit. sci), 66. Teacher, high sch, N.Y, 57-60; asst. prof. POLIT. SCI, STATE UNIV. N.Y. COL. OSWEGO, 60-65, ASSOC. PROF, 65-, CHMN. DEPT. ECON. & POLIT. SCI, 66- History of European imperialism in South East Asia; Egyptian politics in the cold war, especially United States-Egyptian and Soviet-Egyptian relations, particularly since republican revolution in Egypt. Address: Dept. of Economics & Political Science, State University of New York College at Oswego, Oswego, N.Y. 13126.

ABU-JABER, DR. KAMEL SALEH, b. Amman, Jordan, Mar. 8, 32; U.S. citizen; m. 57; c. 2. POLITICAL SCIENCE. Hon. Woodrow Wilson fel. & B.A, Syracuse, 60, Ph.D, 65; Ford fel, Princeton & For. Area Training fel, Lebanon, 62-63. Lectr. POLIT SCI, Syracuse, 65; asst. prof, Tennessee, 65-67; ASSOC. PROF, SMITH COL, 67- U.S.A, 55-57. Polit. Sci. Asn; Mid. East Inst; Mid. East Studies Asn. N.Am. Political and intellectual climate in the Middle East and its relationship to the outside world. Publ: Co-auth, Judhur Al-Ishtirakiyyah (Roots of Socialism), Tali'ah House, 64; auth, The Arab Ba'th socialist party, Syracuse Univ, 66. Address: Dept. of Government, Smith College, Northampton, Mass. 01060.

ABU-LABAN, DR. BAHA, b. Jaffa, Palestine, Feb. 23, 31; U.S. citizen; m. 60; c. 2. SOCIOLOGY. B.A, American Univ. Beirut, 53, M.A, 56; Ph.D. (sociol), Washington (Seattle), 60. Asst. prof. SOCIOL, Stanford, 60-61; Alberta, 61-63; assoc. prof, American Univ. Beirut, 63-65; ASSOC. PROF. & ASSOC. HEAD DEPT, ALBERTA, 65- Sociol. Asn; Can. Sociol. & Anthrop. Asn. Address: Dept. of Sociology, University of Alberta, Edmonton, Alta, Can.

ABU-LUGHOD, PROF. IBRAHIM ALI, b. Jaffa, Palestine, Feb. 15, 29; m. 52; c. 4. POLITICAL SCIENCE. B.A, Illinois, 53, M.A, 54; Ph.D.(polit. sci), Princeton, 57. Soc. scientist, UNESCO, 57-61; res. assoc, Princeton, 61-62; asst. prof. govt, Smith Col, 62-65, assoc. prof, 65-67; PROF. POLIT. SCI, NORTHWESTERN, 67- Vis. lectr, Massachusetts, 62-65; vis. prof, Inst. Islamic Studies, McGill, 65-66. Polit. Sci. Asn. Comparative politics; politics of modernization, socialization and social change. Publ: Arab rediscovery of Europe, Princeton Univ, 63; transl, Evolution of the meaning of nationalism, Doubleday, 63; co-auth, Patterns of African developments, Prentice-Hall, 67. Address: 1813 Hinman Ave, Evanston, Ill. 60201.

ACHENBACH, DR. THOMAS MAX, b. Stamford, Conn, Dec. 29, 40; m. 66. PSYCHOLOGY. B.A, Yale, 62; German govt. fel, Heidelberg, 62-63; Nat. Inst. Ment. Health fel. & Ph.D.(psychol), Minnesota, 66. Res. staff psychologist, YALE, 67-68, ASST. PROF. PSYCHOL, 68- Nat. Inst. Child Health & Human Development fel, Yale, 66-67, co-prin. investr, res. grant, 67-70. Psychol. Asn; Soc. Res. Child Develop. Cognitive development; situational and experimental influences on intellectual functioning; child psychiatric symptomatology; clinical research. Publ: Co-auth, Social competence and self-image disparity in psychiatric and nonpsychiatric patients, J. Abnorm. & Soc. Psychol, 63; auth, The classification of children's psychiatric symptoms: a factor-analytic study, Psychol. Monographs, 66; co-auth, Cue-learning and problem-learning strategies in normal and retarded children, Child Develop, 68. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06510.

ACHENBAUM, ALVIN A(LLEN), b. New York, N.Y, Dec. 11, 25; m. 51; c. 3. ECONOMICS. B.S, California, Los Angeles, 50; M.S, Columbia, 51, scholar, 51-55. Mgr. mkt. res. & economist, McCann-Erickson, Inc, 51-57; V.PRES. & DIR. MKT. SERV, GREY ADVERTISING, INC, 57- Lectr, City Col. New York, 61- U.S.A.A.F, 44-46. Econ. Asn; Statist. Asn; Mkt. Asn. Market research and theory; economic forecasting; economic theory; marketing. Address: 34 Mallard Rise, Irvington, N.Y. 10533.

ACHESON, DR. EDWARD CAMPION, Finance, see 10th ed, Soc. & Behav. Vols.

ACHILLES, DR. PAUL S(TRONG), b. Tacoma, Wash, Jan. 22, 90; m. 36; c. 3. PSYCHOLOGY. A.B, Yale, 13; A.M, Columbia, 17, Ph.D.(psychol), 23. Instr, Yale-in-China, 13-14; psychol. exam, Riverdale Sch, 19-20; lectr. psychol, Columbia, 20-21, instr, 21-22; advert. dept, Eastman Kodak Co, 22-24; field rep, Personnel Res. Fedn, 25-27; secy-treas, Psychol. Corp, 26-31, managing dir, pres. & gen. mgr, 32-46, v.chmn. bd, 46-54, chmn. bd, 54-65; RETIRED. Dir, Eastman Kodak Co, 39-65. Managing trustee, James McKeen Cattell Fund, 52-63; chmn, Ment. Res. Inst, Palo Alto, Calif, 60-63. U.S.A, 17-19, Lt. Fel. Psychol. Asn.(hon. cert, 67). Industrial psychology; personnel; vocational and educational guidance. Address: 215 Mountain Wood Lane, Woodside, Calif. 94062.

ACHINSTEIN, DR. ASHER, b. New York, N.Y, Dec. 6, 00; m. 31; c. 1. ECONOMICS. B.S, City Col. New York, 22; M.A, Columbia, 23, Ph.D.(econ), 27. Sr. investr. econ. res, U.S. Personnel Classification Bd, 28-29; mem. res. staff, Nat. Indust. Conf. Bd, 29-30; asst. dir, N.Y. State Bd. Housing, 30-36; res, U.S. Housing Authority, 38-40; housing consult, War Prod. Bd, 41-42, chief housing & construct. sect. & deputy dir. housing, 41-45; prof. econ, U.S. Army Univ, Biarritz, France, 45-46; SR. SPECIALIST PRICE ECON, LEGIS. REFERENCE SERV, LIBRARY CONG, 49- Lectr, Columbia, 40-42; economist, Coun. Econ. Advs, 53-55; banking & currency cmt, U.S. Senate, 55-58. Econ. Asn; Statist. Asn. Business cycles; housing; monetary and fiscal policy. Publ: Introduction to business cycles; The welfare state; Buying power of labor and post-war cycles. Address: 8504 Meadowlark Lane, Bethesda, Md. 20034.

ACKER, DR. CHARLES WESLEY, b. Colorado Springs, Colo, Nov. 11, 28; m. 59; c. 2. PSYCHOLOGY. B.A, California, Los Angeles, 50, Ph.D.(psychol), 61. Teacher, pub. schs, Calif, 52-55; trainee clin. psychol, California, Los Angeles & Vet. Admin, 55-59; res. asst. physiol. psychol, Brentwood Vet. Admin. Hosp, 59-61, res. assoc, 61-63; chief psychiat. support sect, Los Angeles Vet. Admin. Domiciliary, 63-65; RES. PSYCHOLOGIST, BRENTWOOD VET. ADMIN. HOSP, 65- Instr, Los Angeles Pierce Col, 63- U.S.A, 62-64, Sgt. Psychol. Asn. Autonomic correlates of personality; developmental psychology; effects of group structure on behavior and personality changes. Publ: Personality concomitants of autonomic balance, J. Proj. Tech, 63; An exploration of the autonomic effects of phenothiazines, Psychopharmacologia, 65; co-auth, Reactions of schizophrenics to tension arousing motion pictures, J. Abnorm. Psychol, 67. Address: 143 N. Old Topanga Canyon Rd, Topanga, Calif. 90290.

ACKER, DR. MARTIN HERBERT, b. New York, N.Y, Dec. 21, 21; m. 48; c. 3. VOCATIONAL REHABILITATION, COUNSELING PSYCHOLOGY. A.B, Brooklyn Col, 43; Buffalo, 46-47; Chicago, 47-48; M.A, N.Y. Univ, 53, Ph.D. (voc. rehab), 63. Spec. placement counsr, Fed. Employ. & Guid. Serv, 49-53; chief voc. serv, div. rehab. med, sch. med, Stanford, 56-61; ASSOC. PROF. ED. & DIR. GRAD. TRAINING VOC. REHAB. & COUNSELING PSYCHOL, SCH. ED, OREGON, 61- Arthritis rehab. proj. coordinator, Inst. Crippled & Disabled, 53-56; voc. rehab. consult, San Francisco Home Care Prog, 57-59. Mil. Intel, U.S.A, 43-46, 1st Lt. Nat. Rehab. Asn; Pub. Health Asn; Psychol. Asn; Am. Rehab. Counseling Asn.(pres. elect, 67); Personnel & Guid. Asn.(ed, Rehab. Counseling Bull, 65-66). Counselor education, interprofessional function; vocational development research; the role of the professional; the human service professions as social change agents. Publ: Critical review of counseling in rehabilitation, Rehab. Counseling Bull, spec. issue, fall, 67. Address: School of Education, University of Oregon, Eugene, Ore. 97405.

ACKER, DR. STANLEY R(ANDOLPH), b. Harrisburg, Pa, May 23, 25; m. 47; c. 3. INDUSTRIAL PSYCHOLOGY. A.B, Bucknell, 49; M.S, Purdue, 50, Ph.D.(indust. psychol), 52. Supvr. personnel res, Alco Prods, Inc, 51-53, orgn. planner, 53-54, chief estimating engr, 54-56; specialist adv. degree placement, Gen. Elec. Co, 56-59, manpower develop, 59-63; exec. placement officer, OLIN-MATHIESON CHEM. CORP, 63-66, CONSULT. BEHAV. SCI. APPLICATIONS, 66- U.S.A, 43-46. Psychol. Asn. Personnel evaluation and selection; minority group employment; small group dynamics. Address: 6 Windmill Place, Armonk, N.Y. 10504.

ACKER, LT. COL. WILLIAM JAMES, U.S.A.F, b. Junction City, Kans, June 8, 24; m. 44; c. 2. GEOGRAPHY, ECONOMICS. B.S, Purdue, 49; M.A, Syracuse, 57; M.S, Kansas, 55. U.S. AIR FORCE, 51-, ASSOC. PROF. GEOG, U.S. AIR FORCE ACAD, 57-61, 64- U.S.A.A.F, 43-46, 1st Lt. Asn. Am. Geog. Economic aspects of urban growth, especially a geographic portrayal. Address: Dept. of Geography, U.S. Air Force Academy, Colo. 80840.

ACKERMAN, DR. BERNARD R, b. New York, N.Y, July 9, 13; wid. CLINICAL PSYCHOLOGY, GUIDANCE. B.S.S, City Col. New York, 34; M.A, Columbia, 37; William Alanson White Inst, 48-51; Ph.D, N.Y. Univ, 65. Psychometrician, personnel bur, City Col. New York, 34-36; intern psychologist, psychol. clin, Fedn. Employ. Serv, N.Y, 36-37; psychologist, Nat. Youth Admin, Pa, 39-40, N.Y, 40-42; psychol. counseling sect, training div, Phila. Signal Depot War Dept, Pa, 42-44; dist. supvr, pub. schs, 47-49; Private Practice, 49- Psychologist, Jewish Bd. Guardians, New York, 49-52; family ment. health clin, Jewish Family Serv, 66- Consult, Chapel Mgt. Consult, Inc, 61; Henry I. Siegel Inc, 67- U.S.A, 44-46, 1st Lt. Psychol. Asn; Soc. Proj. Tech; Personnel & Guid. Asn; Orthopsychiat. Asn; Group Psychother. Asn. Employer pattern and family life identification concepts. Address: 308 E. 79th St, New York, N.Y. 10021.

ACKERMAN, DR. DONALD H, JR, b. Syracuse, N.Y, Oct. 28, 30; m. 60; c. 2. POLITICAL SCIENCE. B.A, Syracuse, 51, M.A, 52, D.S.S, 54. Asst. prof. polit. sci, Western Michigan, 55-59; spec. asst. defense affairs to Honorable Gerald R. Ford, 59-61; staff dir. rep. policy cmt, U.S. House Rep, D.C, 61-65; proj. dir, Title IV Grad. Training Prog. Ed. Res. & dir. res, Southern Conn. State Col, 65-67; COORD. RES, STATE UNIV. N.Y. STONY BROOK, 67- Consult, Stricker Res. Assocs, N.Y, 61-65; Hamden Bd. Ed, Conn, 65-67; Woodbridge Bd. Ed, 66-67. Mem, Nat. Coun. Univ. Res. Adminstr, 66- Ed. Res. Asn; Polit. Sci. Asn. Higher education administration; informal aspects of American governance, including political parties, public opinion and pressure groups; political behavior studies. Publ: Significance of congressional races with repeat candidates, Midwest J. Polit. Sci, 58; co-auth, American strategy and strength, 60 & Employment in the dynamic American economy, 61, Cong. Record. Address: State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

ACKERMAN, DR. EDWARD A(UGUSTUS), b. Post Falls, Idaho, Dec. 5, 11. GEOGRAPHY. A.B, Harvard, 34, A.M, 36, A.M, 36, Ph.D, 39. From instr. to asst. prof. geog, Harvard, 39-48; prof, Chicago, 48-55; dir. water resources prog, Resources for Future, Inc, 54-58; dep. exec. officer, CARNEGIE INST, 58-60, EXEC. OFFICER, 60- Field investr, U.S. Fish & Wildlife Serv; asst. chief in charge topog. intel, Europe-African div, Off. Strategic Serv, 41-43; tech. adv. nat. resources sect, gen. hq, Supreme Comdr. Allied Powers, Japan, 46-48; chief natural resources, civil works br, U.S. Bur. Budget, 51-52; asst. gen. mgr, Tenn. Valley Authority, 52-54; adv. civil works study bd, U.S. Corps Engrs, 64. Consult, select cmt. water resources, U.S. Senate, 59-61; state planning dept, Md, 60-; state off. planning, Calif, 62-; Int. Coop. Admin, 61; Agency Int. Develop, 62; water resources cmt, UN Conf. Appl. Sci. & Tech, 63, UN Econ. & Social Coun. moderator, World Pop. Conf, Yugoslavia, 65. With U.S. Dept. State; Joint Chiefs Staff, Cmn. Orgn. Exec. Br. Mem. coun. adv. cmt. to Nat. Park Serv. Res. Cmt, Nat. Acad. Sci-Nat. Res. Coun, 63, U.S. Nat. Cmt. for Int. Biol. Prog. of Int. Coun. Sci. Unions, 65-66, panel environ. control & modification of cmt. on ocean eng. & cent. cmt. for peaceful uses of outer space-space appln. study group, 67-; steering cmt. interdept. cmt. atmospheric sci. study, U.S. Weather Bur, U.S. Dept. Commerce, 64; Potomac River Planning Task Force, U.S. Dept. Interior, 65-66. Asn. Am. Geog.(Hon. pres, 62-63). Resource management; planning; water resources development. Publ: Japan's natural resources; Geography as a fundamental research discipline; co-auth, Technology in American water development. Address: Carnegie Institute of Washington, 1530 P St. N.W, Washington, D.C. 20005.

ACKERMAN, DR. GERALD EDWARD, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

ACKERMAN, DR. JOSEPH, b. Morton, Ill, July 20, 04; m. 30; c. 4. AGRICULTURAL ECONOMICS. B.S, Illinois, 29, M.S, 30, Ph.D.(agr. econ), 38; Soc. Sci. Res. Coun. fel, Harvard, 31-32; hon. LL.D, Elmhurst Col, 66. Exten. worker farm mgt, Illinois, 31, 32-33, 34-39; land tenure specialist, FARM FOUND, 39-41, asst. dir, 41-42, assoc. managing dir, 42-54, MANAGING DIR, 55- Pres, Nat. Sch. Bds. Asn, 66-67. Fel. AAAS; fel. Agr. Econ. Asn.(v.pres, 50, pres, 55); Int. Asn. Agr. Econ.(secy-treas, 58-70). Farm management; land economics; rural appraisal. Publ: Co-ed, Family farm policy & Agrarian reform and moral responsibility; co-auth, Town and country churches and family farming. Address: 600 S. Michigan Ave, Chicago, Ill. 60605.

ACKERMAN, PROF. LAURENCE J(USTIN), Bus. Admin, see 10th ed, Soc. & Behav. Vols.

ACKERMAN, PROF. RALPH E, b. New York, N.Y, Aug. 21, 21; m. 45. EDUCATIONAL PSYCHOLOGY. B.S.Ed, Ohio, 48, M.Ed, 49; Columbia, summer 51; Ph.D.(ed), Connecticut, 60. Teacher & chmn. sci. dept, high sch, 49-54; teacher, pub. schs, 54-61; PROF. GROWTH & DEVELOP. & ED. PSYCHOL, EDINBORO STATE COL, 61- Summer vis. prof, Marshall, 61. Ord. Dept, U.S.A, 42-46. Ed. Res. Asn; Asn. Higher Ed. Selection process for selecting college students, particularly what factor or factors will help predict college success. Publ: Research proves today's schools, Tenn. Teacher, 54; Critical analysis of programs of teacher education for junior high school, Nat. Asn. Sec. Sch. Prin. Bull, 62; Preparation of junior high school teachers, J. Teacher Ed, 62. Address: Dept. of Psychology, Edinboro State College, Edinboro, Pa. 16412.

ACKERMAN, DR. ROBERT E, b. Grand Rapids, Mich, May 21, 28; m. 51; c. 3. ANTHROPOLOGY. B.A, Michigan, 50, M.A, 51; fel, East. Pa. Psychiat. Inst, 59-61; Ph.D.(anthrop), Pennsylvania, 61. Instr. ANTHROP, exten, Delaware, 60-61; from instr. to ASSOC. PROF, WASHINGTON STATE, 61-U.S.A.F, 52-56, Res, 56-60. AAAS; fel. Am. Anthrop. Asn; Soc. Am. Archaeol. Arctic and sub-arctic archaeology and ethnography. Publ: Culture contact in the Bering Sea: Birnirk-Punuk period, Arctic Inst. N.Am, 62; Prehistory in the Kuskokwim-Bristol Bay region, southwestern Alaska, 64 & Archeology of the Glacier Bay National Monument area, southeastern Alaska, 68, Lab. Anthrop, Washington State Univ. Address: Dept. of Anthropology, Washington State University, Pullman, Wash. 99163.

ACKERMAN, SOL, Econ, see 10th ed, Soc. & Behav. Vols.

ACKERMANN, ARTHUR F(RANK), Econ, see 10th ed, Soc. & Behav. Vols.

ACKERSON, DR. LUTON, b. Elbow Lake, Minn, Apr. 19, 92; m. 17; c. 4. PSYCHOLOGY. A.B, Oregon, 15; Rhodes scholar, Oxford, 16, B.Sc, 24; A.M, Columbia, 22, Ph.D.(psychol), 27. Asst. prof. psychol. & dir. psychol. clin, Iowa, 24-26; res. psychologist, Ill. Inst. Juvenile Res. & Behav. Res. Fund, 26-40; vis. asst. prof. psychol, N.Y. Univ, 40-42; employee, Los Angeles County Civil Serv. Cmn, 44-62; RETIRED. Psychologist, classification staff & ment. Health off, State Div. Criminol, Ill, 32-38; lectr, City Col. New York, 41-42. U.S.A, 42-44, Lt. Child behavior; statistical methods. Publ: Children's behavior problems; Correlational analysis of proficiency in typing. Address: Biola Hotel, 536 S. Hope St, Los Angeles, Calif. 90017.

ACKLEY, DR. GARDNER, b. Indianapolis, Ind, June 30, 15; m. 37; c. 2. ECONOMICS. A.B, Western Michigan, 36, hon. LL.D, 64; M.A, Michigan, 37, Ph.D.(econ), 40; hon. LL.D, Kalamazoo Col, 67. Instr. econ, Ohio State, 39-40; Michigan, 40-41; economist, Off. Price Admin, 41-43, 44-46; Off. Strategic Serv, 43-44; asst. prof. econ, Michigan, 46-47, assoc. prof, 47-51, prof, 51-68, chmn. dept, 54-61; U.S. AMBASSADOR TO ITALY, 68- Vis. prof, California, Los Angeles, 49; econ. adv, Off. Price Stabilization, 51-52; Fulbright res. scholar, Italy, 56-57; Ford Found. faculty res. fel, 61-62. Consult, Nat. Resources Planning Bd, 40-41; Off. Econ. Stabilization, 50; Ford Found, 57-58. Mem. selection cmt, Brookings Nat. Res. Professorships, 58-61; dir; Soc. Sci. Res. Coun, 59-, mem. exec. cmt. & chmn, cmt. soc. sci. personnel, 60-; mem, Coun. Econ Adv, 62-, chmn, 64-68. Econ. Asn.(v.pres, 63); Economet. Soc. National income analysis; stabilization policy; business cycles and economic dynamics. Publ: Macroeconomic theory; Administered prices and the inflationary process, Am. Econ. Rev; Un modello econometrico dello sviluppo Itaniano nel dopoguerra, Svimez, 63. Address: American Embassy, APO New York 09794.

ACKLEY, PROF. STANLEY W(ATSON), b. Jersey City, N.J, Sept. 21, 12; m. 39; c. 1. ECONOMICS. A.B, Rutgers, 48, M.A, 50, Ph.D, 55. Asst. prof. ECON, UNIV. COL, RUTGERS, 56-61, ASSOC. PROF, 61- Consult, Didactic Games, Inc, 67- Econ. Asn; Acad. Polit. & Soc. Sci. Economic resources, development and history; labor economics. Publ: Winfield, N.J—an economic profile, 65; Industrial research in New Jersey, In: Economics of New Jersey; Public power and industrial development, In: Public power. Address: 4 Palmer Rd, Kendall Park, N.J. 08824.

ACKOFF, PROF. RUSSELL L(INCOLN), b. Philadelphia, Pa, Feb. 12, 19; m. 49; c. 1. OPERATIONS RESEARCH. B. Archit, Pennsylvania, 41, Ph.D. (philos. sci), 47; hon. D.Sc, Lancaster, 67. Instr. philos. sci, Pennsylvania, 41-42, 46-47; asst. prof. math. & philos, Wayne State, 47-51; res. assoc, Proj. Doan Brook, 51-52; prof. & dir. oper. res. group, Case, 52-64; PROF. CITY PLANNING, PENNSYLVANIA, PROF. STATIST. & OPERS. RES. & CHMN. GRAD. GROUP OPERS. RES, WHARTON SCH, 64-, chmn. dept. statist. & opers. res, 64-66. Mgt. prog. at Columbia, Gen. Elec. Co, Int. Bus. Mach. Corp, Grad. Sch. Sales Mgt. & Mkt. & West. Elec. Co. Consult, Phila. City Planning Cmn, 46-47; U.S. Bur. Census, 50; U.S. Naval Ord. Test Sta, 51; Indian Statist. Inst, 57; proj. Walrus, Nat. Res. Coun, 59; Nat. Sci. Found, 62; Arms Control & Disarmament Agency, 63; Can. Peace Res. Inst, 62; Community Renewal Prog, Pittsburgh, 63; adv. panel info. systs. & serv, Nat. Bur. Standards, 66; adv. panel tech. anal. div, Inst. Appl. Tech; Nat. Res. Coun, 66; adv, industs. Managing ed, Bull. Inst. Exp. Method, 46-47; mem, abstracting staff, Biol. Abstracts, 50-51; ed, Mgt. Sci, 65-V.pres. res. & ed, Inst. Mgt. Sci, 65-66. U.S.A, 42-46, 1st Lt. Opers. Res. Soc. Am.(v.pres, 55-56, pres, 56-57); fel. Statist. Asn; Soc. Gen. Systs. Res; Brit. Oper. Res. Soc; Opers. Res. Soc. Bangalore. Scientific method; decision theory; psychologistics; consumer interest measurement. Publ: Scientific method, 62, co-auth, A manager's guide to operations research, 63 & Fundamentals of operations research, 68, Wiley. Address: Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

ACREE, NATHAN EDWARD, b. Model, Tenn, Mar. 24, 17; m. 43; c. 2. COUNSELING & GUIDANCE PSYCHOLOGY. B.A, Pepperdine Col, 39; M.A, Peabody Col, 55, Ed.S, 60. Counsr, voc. rehab. & ed, regional off, Vet. Admin, 45-51, 53-57, chief counseling & training sect, 57-63, EXEC. SECY. GEN. RES. STUDY SECT, REHAB. RES. BR, DIV. RES. & DEMONSTRATION GRANTS, SOC. & REHAB. SERV, DEPT. HEALTH, ED. & WELFARE, 63-Instr, extern. div, Tennessee, 59-61. U.S.N, 42-45, 51-53, Res, 53-, Comdr.

Psychol. Asn; Personnel & Guid. Asn. Development of scoring keys on optometrists and new areas of measurements of vocational interest. Publ: Vocational interests of rehabilitation counselors; co-auth, Counseling in the secondary schools of Tennessee, J. Personnel & Guid. Address: 4101 Tidewater Court, Alexandria, Va. 22309.

ACUFF, DR. F(REDERICK) GENE, b. Stinesville, Ind, Sept. 13, 31; m. 62; c. 3. SOCIOLOGY. B.A, Manhattan Bible Col, 57; M.S, Kansas State, 59; Nat. Sci. Found. fel, Missouri, Columbia, 66-67, Ph.D.(sociol), 67. Asst. prof. SOCIOL, Phillips, 60-62; OKLA. STATE, 62-66 & 67, ASSOC. PROF. & ACTING HEAD DEPT, 67- U.S.A, 52-54. Sociol. Asn. Social disorganization; gerontology. Publ: Emeritus professors: the effect of professional activity and religion on meaning, Sociol. Quart, 67; The adjustment patterns of emeritus professors and retired clergymen in Oklahoma, Proc. Okla. Acad. Sci, 67. Address: Dept. of Sociology, Oklahoma State University, Stillwater, Okla. 74074.

ADAIR, DR. FRED L, b. Bigelow, Ark, Aug. 20, 23; m. 45; c. 4. EDUCATION, GUIDANCE. B.S, North Carolina, 49, fel, 64, Ph.D.(ed), 68; M.A.T, Duke, 64. V.pres. & treas, Jordan Hardware Co. Inc, N.C, 50-55, pres, 55-62; teacher, high sch, N.C, 63-64; asst. registrar, Duke, 65-67; COUNSELING PSYCHOLOGIST, FRANKLIN & MARSHALL COL, 67- U.S.M.C, 42-58, Maj. Personnel & Guid. Asn. Vocational counseling; selection of librarians using personality instruments. Address: 515 N. School Lane, Lancaster, Pa. 17603.

ADAIR, PROF. JOHN J(OSEPH), b. Memphis, Tenn, Apr. 27, 13; m. 39; c. 3. SOCIAL ANTHROPOLOGY. Ph.B, Wisconsin, 38; Michigan, 39-40; Columbia, 41; Ph.D.(anthrop), New Mexico, 48. Asst. anthrop, New Mexico, 46-48; from instr. to assoc. prof, Cornell, 48-52, asst. prof. soc. anthrop. in pub. health, med. col, 55-65; PROF. ANTHROP, SAN FRANCISCO STATE COL, 65- U.S.A.A.F, 42-45, Sgt. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc. Medical anthropology on Navahos; Southwest ethnology; primitive art; visual communication and anthropology; ethnographic film. Publ: First look at strangers; Navaho and Pueblo silversmiths; co-auth, People of the middle place: a study of the Zuni Indians, Human Rels. Area Files, Inc, 66. Address: Dept. of Anthropology, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

ADAM, DR. JUNE ANNE, b. Sydney, Australia, Mar. 19, 38; m. 63; c. 2. PSYCHOLOGY. B.A, Sydney, 59, Ph.D.(psychol), 63. Lectr. PSYCHOL, CALGARY, 62-64, ASST. PROF, 64- Nat. Res. Coun. Can. operating grant, 63- Australian Psychol. Soc; Can. Psychol. Asn. Visual perception, especially illusions, figural aftereffects, and relationships between these and other perceptual phenomena. Publ: A note on visual illusions of direction, 64 & The relationship between visual illusions and figural aftereffects, 66, Australian J. Psychol; co-auth, Effects of luminance contrast factors upon figural aftereffects induced by short fixation periods, Perceptual & Motor Skills, 66. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

ADAM, PROF. THOMAS R(ITCHIE), b. Scotland, May 7, 00. POLITICAL SCIENCE. M.A, Edinburgh, 23, LL.B, 24. From assoc. to chmn, Develop. & Immigration Cmn, Australia, 26-30; assoc. prof. govt, Occidental Col, 30-37; field rep, Am. Asn. Adult Ed, 37-39; PROF. POLIT. SCI, N.Y. UNIV, 45-Officer, Order of Orange Nassau, Holland. Mil. asst. to dep. chief imp, Gen. Staff, British Army, 44-45. Modern colonial government; public law. Publ: Government and politics of Africa, south of the Sahara; Elements of government; Western interests in the Pacific realm. Address: Dept. of Politics, University College of Arts & Science, New York University, University Heights, New York, N.Y. 10453.

ADAMANY, DR. DAVID W, b. Janesville, Wis, Sept. 23, 36. POLITICAL SCIENCE. A.B, Harvard, 58, LL.B, 61; M.S, Wisconsin, 63, Ph.D.(polit. sci), 67. Pardon counsel Exec. Off, Wis, 63; cmnr, Wis. Pub. Serv. Cmn, 63-65; admin. asst, Off. Lt. Gov, 65; instr. polit. sci, Wis. State, Whitewater, 65-67; ASST. PROF. GOVT, WESLEYAN, 67- Vis. lectr, Wisconsin, summer 66. Polit. Sci. Asn. Public law; political parties; state politics. Publ: Executive clemency in Wisconsin, Wis. Bar Bull, 10/63; The size-of-place analysis reconsidered, West. Polit. Quart, 9/64. Address: Dept. of Government, Wesleyan University, Middletown, Conn. 06457.

ADAMEK, DR. RAYMOND J(OHN), b. Buffalo, N.Y, May 26, 35; m. 57; c. 7. SOCIOLOGY. B.S, Canisius Col, 57; M.A, Fordham, 61; Ph.D.(sociol), Purdue, 68. Instr. SOCIOL, Col. Mt. St. Joseph, 60-64; ASST. PROF, KENT STATE, 67- U.S.A, 57-59, 1st Lt. Sociol. Asn; Nat. Coun. Family Rels. Sociology of the family; occupations and professions; complex organizations. Publ: Co-auth, Identification,sex, and change in college major, Sociol. of Ed, spring 66. Address: Dept. of Sociology & Anthropology, Kent State University, Kent, Ohio 44240.

ADAMS, DR. ALICE ANDERSON, b. Oklahoma City, Okla; m. 62; c. 2. CLINICAL PSYCHOLOGY. Ph.D.(psychol), Oklahoma, 59. Staff psychologist, Cent. State Hosp, Norman, Okla, 54-59, 60-61; psychologist, Child Guid. Center, Calif, 59-60; chief psychologist, Community Ment. Health Center, N.C, 61-63; MENT. HEALTH CENTER, D.C. GEN. HOSP, 63-67, ACTING DIR. CHILDREN'S PROG, AREA C, 68- Mem. faculty, sch. med, Georgetown, 63-; dept. psychol, George Washington, 65- Psychol. Asn. Address: 2812 34th St. N.W, Washington, D.C. 20008.

ADAMS, PROF. ARTHUR E, Mod. Russian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ADAMS, DR. BENSON D(AVID), b. Philadelphia, Pa, Mar. 6, 42; m. 64; c.1. INTERNATIONAL RELATIONS. A.B, Pennsylvania, 63, A.M, 64, Ph.D. (polit. sci), 68. Researcher strategic studies, For. Policy Res. Inst, 63-68; MEM. STAFF, BOOZ-ALLEN APPL. RES. INC, BETHESDA, 68- Consult, Stanford Res. Inst, 65-68; Gen. Elec. Co, 66. Polit. Sci. Asn; Franklin Inst; Acad. Soc. & Polit. Sci. Defense analysis; strategic studies; missile defense; counterinsurgency; United States foreign policy; Soviet military strategy. Publ: The administration's ABM policy 1961-67, Orbis, winter 68. Address: 5116 Parklawn Terr, Apt. T-3, Rockville, Md. 20852.

ADAMS, PROF. BRUCE E, b. Lock Haven, Pa, Nov. 20, 16; m. 45; c. 1. GEOGRAPHY. B.S, Lock Haven State Col, 41; M.Ed, Pa. State, 49, D.Ed, 60. Teacher, high schs, Pa, 41-42, 45-56; PROF. GEOG. & CHMN. DEPT, BLOOMSBURG STATE COL, 56- U.S.A.A.F, 42-45, Lt. Nat. Coun. Geog. Ed; Asn. Am. Geog. Geography education; conservation of natural resources. Publ: Broader horizons for modern and functional geography, Pa. Elem. Prin. Mag, 63; Public awareness is needed for conservation of natural resources, 65 & Bloomsburg State College NDEA Institute for Advanced Study in Geography, 67, Pa. Geographer. Address: Dept. of Geography, Bloomsburg State College, Bloomsburg, Pa. 17815.

ADAMS, DR. CALVIN K(ELLY), b. Simpson, Kans, Aug. 28, 36; m. 56; c. 4. EXPERIMENTAL PSYCHOLOGY. B.S, Kansas State, 58, M.S, 60, Ph.D. (exp. psychol), 64. RES. PSYCHOLOGIST, U.S. ARMY MED. RES. LAB, 63-Med.Serv.C, U.S.A, 63-, Capt. AAAS; Psychonomic Soc; Psychol. Asn. Sensory physiology; primate color vision. Publ: Co-auth, The two-point threshold as a function of position in the dermatome, J. Comp. Physiol. & Psychol, 66; Stimulus change properties of the RT ready signal, Psychonomic Sci, 66; Spectral sensitivity of the sooty mangabey, Perception & Psychophys, 10/67. Address: U.S. Army Medical Research Lab, Ft. Knox, Ky. 40121.

ADAMS, PROF. CLIFFORD R, b. N.C, Dec. 23, 02. PSYCHOLOGY. A.B, North Carolina, 28, A.M, 36; Ph.D, Pa. State, 40. Instr. PSYCHOL, PA. STATE, 37-41, asst. prof, 41-43, assoc. prof, 43-46, prof, 46-66, EMER. PROF, 66- Consult, State Employ. Bd, Pa, 40-42; State Civil Serv. Cmn, 43- Fel, Psychol. Asn; Asn. Marriage Counsr. Personality testing; marriage counseling techniques and procedures. Publ: Personal audit; Preparing for marriage. Address: 220 Ridge Ave, State College, Pa. 16801.

ADAMS, PROF. DONALD K(EITH), b. Millersburg, Pa, Mar. 6, 02; m. 27; c. 1. PSYCHOLOGY. A.B, Pa. State Col, 23; A.M, Harvard, 25; Ph.D.(psychol), Yale, 27. Asst, inst. psychol, Yale, 25-28, Sterling fel, 27-28; instr. PSYCHOL, Wesleyan, 28-29; Nat. Res. fel, Berlin & Frankfurt, 29-31; asst. prof, DUKE, 31-38, from assoc. prof. to PROF, 38-, chmn. dept, 46-51. Guggenheim fel, 37-38; Fulbright fel, Max Planck Inst. Physiol. Behav, 59-60. Dir. sta. assessment off, Off. Strategic Serv, 43-44, chief German sect. forward, 44-45; res. leader, U.S. Strategic Bombing Surv, Japan, 45-46; br. chief clin. psychologist, U.S. Vet. Admin, Atlanta, Ga, 46-47, Richmond, Va, 47-48, consult, 48- Fel. AAAS; fel. Psychol. Asn. Theory of learning and of personality structure and development; animal behavior and learning. Publ: Anatomy of Personality, Random, 54. Address: Dept. of Psychology, Duke University, Durham, N.C. 27706.

ADAMS, PROF. DONALD KENDRICK, b. North Berwick, Maine, Feb. 21, 25; m. 59; c. 2. EDUCATION. B.S, New Hampshire, 49; M.A, Connecticut, 54, Ph.D.(ed), 55. Teacher, Norwich Free Acad, Conn, 48-51; ed. consult, UN Korean Reconstruct. Agency, 54-55; asst. prof. comp. ed, Massachusetts, 56-57; ed. consult, U.S. State Dept, Korea, 57-58; assoc. prof. ed, George Peabody Col, 58-61; PROF. COMP. ED. & CHMN. CULTURAL FOUND. DEPT, SYRACUSE, 61- Scholar, East-West Center, Univ. Hawaii, 65-66. Consult, private & pub. int. agencies. U.S.A.F, 43-45, 51-55, 1st Lt. Comp. Ed. Soc. (pres, 65-66); Soc. Int. Develop. Study of linkages between the educational system and other major social systems in the development process; Study of national educational planning. Publ: Patterns of education in contemporary societies, McGraw, 64; ed, Educational Planning, Syracuse, 65; co-auth, Education in the developing societies, McKay, (in press). Address: Center for Development Education, Syracuse University, 216 Ostrom Ave, Syracuse, N.Y. 13210.

ADAMS, DR. D(OROTHY) INEZ, Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 67.

ADAMS, DR. E. SHERMAN, b. Norwalk, Conn, July 17, 10; m. 40; c. 3. FINANCE. A.B, Amherst Col, 31; M.B.A, Harvard, 33; Ph.D, N.Y. Univ, 48. Asst. v.pres, Hanover Bank, N.Y, 33-49; lectr. finance & asst. v.chancellor, N.Y. Univ, 49-52; dep. mgr, Am. Bankers Asn, 53-60; v.pres, FIRST NAT. CITY BANK OF N.Y, 60-67, SR. V.PRES, 67- Mem. faculty, Am. Inst. Banking, 46-49; Pac. Coast Banking Sch, 49-54; dir, grad. sch. banking, Rutgers, 53-60. U.S.N.R, 43-46, Lt. Econ. Asn. Banking and monetary policy; investments. Publ: Monetary management, the regulation of credit. Address: First National City Bank of New York, 399 Park Ave, New York, N.Y. 10022.

ADAMS, DR. EVERETT MERLE, b. U.S, Dec. 27, 20; m. 43; c. 3. SOCIOLOGY. B.A, Doane Col, 42; M.A, Harvard, 50, Ph.D.(sociol), 63. Instr. SOCIOL, Syracuse, 50-56; asst. prof, North Dakota, 56-57; COLORADO, 58-66, ASSOC. PROF. & CHMN. DEPT, 66- U.S.A.A.F, 42-46, Sgt. Sociol. Asn. Sociological theory; stratification; small groups; medical sociology and mental health; development of models in general theory; structure and process in mental hospitals. Publ: New viewpoints in sociology, In: New viewpoints in social science. Address: Dept. of Sociology, University of Colorado, Boulder, Colo. 80302.

ADAMS, DR. F. GERARD, b. Apr. 28, 29; m. 53; c. 4. ECONOMICS. B.A, Michigan, 49, M.A, 51, Ph.D, 56. Instr. econ, Michigan, 53-56; economist, Calif-Tex. Oil Co, Ltd, 56-59; Cie Française des Petroles, 59-61; asst. prof. ECON, PENNSYLVANIA, 61-65, ASSOC. PROF, 65-, DIR. ECON. RES. UNIT, 61- Consult, Orgn. Econ. Coop. & Develop, Paris, France, 66-67. Econ. Asn. Empirical economics; income distribution; international economics. Publ: Size of individual incomes: socio-economic variables and chance variation & Prediction with consumer attitudes: the time series cross section paradox, 11/65, Rev. Econ. & Statist; co-auth, Econometric analysis of international trade, Monogr. by Orgn. Econ. Coop. & Develop, 68. Address: 105 Ivywood Lane, Radnor, Pa. 19088.

ADAMS, DR. FRANK C, b. Sparta, Ill, Mar. 4, 16; m. 41. EDUCATIONAL PSYCHOLOGY. B.S, Monmouth Col.(Ill), 41; M.S, Southern Illinois, 51, Ph.D.(secondary ed), 62. Metallurgist, U.S. Cartridge Co, Mo, 42-44; supvr. indust, Eastman Co, Tenn, 44-45; teacher, high sch, Ill, 47-52, counsr, 52-54, prin, 56-57; ASST. PROF. & DIR. STUDENT WORK & FINANCIAL ASSISTANCE, SOUTHERN ILLINOIS, 57- Consult, col. work-study prog, U.S. Off. Ed, 64-67. U.S.A, 45-46. Guid. & Personnel Asn. Guidance and personnel work, especially on student work in higher education and vocational counseling. Address: R.R. 4, Carbondale, Ill. 62901.

ADAMS, PROF. F(REDERICK) J(OSEPH), Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

ADAMS, PROF. GEORGE P(LIMPTON), JR, b. Berkeley, Calif, Apr. 27, 09; m. 34. ECONOMICS. A.B, Harvard, 29; Ph.D, California, 40. Instr, Robert Col. Istanbul, 29-32; asst, California, 36-38; mem. staff, Brookings Inst, 39-40; instr. ECON, CORNELL, 40-42, asst. prof, 42-45, assoc. prof, 45-50, PROF, 50-, CHMN. DEPT, 48- Economist, U.S. Dept. State, Wash, D.C, 44-46. Econ. Asn. Economics of nationalism; price control; economic theory; history of economic thought. Publ: Wartime price control; Competitive economic systems; The relevance of economic theory, Indiana, 59. Address: 309 Roat St, Ithaca, N.Y. 14850.

ADAMS, PROF. GEORGE W(ORTHINGTON), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ADAMS, PROF. GEORGIA S, b. Ortonville, Minn, May 23, 13; m. 46; c. 4. EDUCATIONAL PSYCHOLOGY. A.B, Southern California, 33, M.S, 35, Ph.D, 41; summer, Chicago, 41; Claremont Grad. Sch, 51-52. Asst, Pasadena City Schs, Calif, 36-39, dir. res, 39-51; instr, Muir Col, 51-54; asst. prof. ED. PSYCHOL, CALIF. STATE COL. LOS ANGELES, 54-58, assoc. prof, 58-62, PROF, 62- Dir. eval, Ford Found. Study, Claremont Univ. Col, 57-58. Res. consult, Orientation & Mobility Skills for Blind, 65-67; Reading Prog. for Mex-Am. Children, 66-68. Fel. Psychol. Asn; fel. Int. Coun. Psychol; fel. Int. Inst. Arts & Letters. Tests and measurements; methods of minimizing response tendencies; oral language of culturally disadvantaged children. Publ: Measurement and evaluation for the elementary school teacher; Measurement and evaluation for the secondary school teacher; Measurement and evaluation in education, psychology and guidance, Holt, 64. Address: 2772 N. Lake Ave, Altadena, Calif. 91001.

ADAMS, DR. HAROLD E(DGAR), b. Fostoria, Ohio, May 8, 96; m. 23; c. 1. SOCIOLOGY. A.B, Hiram Col, 21; A.M, Western Reserve, 25; Ph.D, Yale, 29. Asst. sociol, CASE WESTERN RESERVE, 24-25, instr, 25-27, asst. prof, 29-66, placement dir, 42-50, asst. to v.pres. in charge univ. develop, 51-52, univ. exam. admin. asst, psychol. res. serv, 52-66, EMER. ASST. PROF. SOCIOL, 66- Address: 2596 Ashurst Rd, Cleveland, Ohio 44118.

ADAMS, DR. HENRY B(ETHUNE), b. Charlotte, N.C, Aug. 26, 25. CLINICAL PSYCHOLOGY. A.B, North Carolina, 49; M.A, Duke, 53; Ph.D.(psychol), Purdue, 56. Trainee psychol, Vet. Admin. Ment. Hyg. Clin, Durham, N.C, 49-50; fel, N.C. Bd. Health & Duke, 50-51; intern, Cleveland Receiving Hosp. & State Psychiat. Inst, Ohio, 51-52; sr. clin. psychologist, Milledgeville State Hosp, Ga, 52-53; asst, psychol. clin, Purdue, 53-54; trainee psychol, Vet. Admin. Hosp, Marion, Ind, 54-55; regional off, Vet. Admin. Ment. Hyg. Clin, Indianapolis, 55-56; clin. psychologist, Nebr. Psychiat. Inst, Omaha, 56-59; res. psychologist, Vet. Admin. Hosp, Richmond, Va, 59-63; staff psychologist, Nat. Training Sch. for Boys, D.C, 63-64; chief psychol. serv, Fed. Reformatory for Women, W.Va, 64-67; CHIEF PSYCHOLOGIST, ALCOHOLISM & DRUG ADDICTION PROG, AREA C COMMUNITY MENT. HEALTH CENTER, 67- Instr, col. med, Nebraska, 56-59; lectr, Richmond Prfnl. Inst, Col. William & Mary, 60-63; clin. assoc. psychol, West Virginia, 65-67. Res. consult, Petersburg Training Sch, Va, 62-63. U.S.A, 43-46. Psychol. Asn; Soc. Proj. Tech; fel. Int. Coun. Psychol. Evaluation of effectiveness of psychiatric treatment and therapeutic techniques; fundamental conceptions of mental illness and interpersonal behavior; validation of projective techniques and methods of personality assessment; alcoholism treatment and prevention. Publ: Mental illness or interpersonal behavior, Am. Psychologist, 64; Therapeutic potentialities of sensory deprivation procedures, Int. Ment. Health Res. Newsletter, 64; co-auth, Sensory deprivation and personality change, J. Nervous & Ment. Diseases, 66. Address: Area C Mental Health Center, 1905 E St. S.E, Washington, D.C. 20003.

ADAMS, DR. HENRY EARL, b. Cleveland, Ga, June 16, 31; m. 52; c. 3. PSYCHOLOGY. B.A, California, Berkeley, 57; M.A, La. State, 59, Ph.D.(psychol), 60. Asst. prof. psychol, La. State, 60-63; assoc. prof. clin. psychol, GEORGIA, 64-66, DIR. CLIN. TRAINING, 67- Res. assoc, sch. med, Tulane, 60-62; asst.prof, sch. med, Emory, 66. U.S.A.F, 51-55, S/Sgt. Memory; behavior modification. Publ: Co-auth, Retrograde amnesia from conditioned competing response, Science, 63; Modification of verbal behavior in speech deficient children, Behavior Res. & Ther, 66; ECS and one trial learning; retrograde amnesia or disinhibition?, Physiol. & Behavior, 67. Address: Dept. of Psychology, University of Georgia, Athens, Ga. 30601.

ADAMS, PROF. HENRY L(AMAR), b. Ala, Nov. 26, 17; m. 41; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Kentucky, 38, M.A, 46; Ph.D.(ed. psychol), Illinois, 55. Teacher, high sch, Ky, 38-42; training officer, Vet. Admin, 46-51; head training requirements br, personnel res. field activity, U.S. Dept. Navy, 55-56; lectr. psychol, San Diego State Col, 56; sr. res. engr, human factors br, Convair Div, Gen. Dynamics Corp, 56-57; assoc. prof. PSYCHOL, WEST. WASH. STATE COL, 57-63, PROF, 63-, CHMN. HONORS BD, 57- U.S.A.F, 42-46, 51-55. AAAS; Psychol. Asn. Measurement; learning; giftedness. Address: Dept. of Psychology, Western Washington State College, Bellingham, Wash. 98225.

ADAMS, PROF. J. STACY, b. Brussels, Belgium, Mar. 16, 25; U.S. citizen; m. 52; c. 2. SOCIAL & EXPERIMENTAL PSYCHOLOGY. B.A, Mississippi, 48; M.A, North Carolina, 55, fel, 55-57, Ph.D, 57. Instr. Romance lang, Mississippi, 46-47; dep. dir. psychol, attitude res. br, European Command, 49-53; instr, North Carolina, 53-54; asst, inst. statist, N.C. State Col, 54-55; asst. prof, Stanford, 57-60; consult, behav. res. serv, Gen. Elec. Co, 60-67; REYNOLDS PROF. APPL. BEHAV. SCI, NORTH CAROLINA, CHAPEL HILL, 67- Assoc. prof, Columbia, 63-67. U.S.N, 42-46. Psychol. Asn. Cognitive and communication processes; visual perception; human learning; organization behavior; motivation and productivity. Publ: Inequity in social exchange, Academic, 65; Functional analysis of authority, Psychol. Rev; Reduction of cognitive dissonance by seeking consonant information, J. Ab-

norm. & Soc. Psychol. Address: School of Business Administration, University of North Carolina, Chapel Hill, N.C. 27514.

ADAMS, DR. JACK, b. Emeigh, Pa, Oct. 31, 19; m. 49. PSYCHOLOGY, ELECTROPHYSIOLOGY. B.A, California, Berkeley, 50; M.A, Hawaii, 56; Nat. Insts. Health grant, Claremont Grad. Sch. & Grad. Center, 60-63, Ph.D. (psychol), 63. Teaching asst. PSYCHOL, Claremont Grad. Sch. & Grad. Center, 61-63; asst. prof, Calif. State Col. Long Beach, 63-65; ASSOC. PROF, CALIF. STATE COL. DOMINGUEZ HILLS, 66- Long Beach State Col. Found. grant, 64-65; Nat. Sci. Found. summer res. prog, Pa. State, 65. U.S.C.G, 41-45. AAAS; Psychol. Asn; Animal Behavior Soc. Brain mechanism of behavior; electroencephalography; neurological concomitants of behavior. Publ: A laboratory manual for physiological psychology, Brown, 67; A versatile electrode carrier for brain implants, Psychol. Reports, 63; Enhanced distress vocalization through selective reinforcement, Science, 66. Address: Dept. of Psychology, California State College at Dominguez Hills, Dominguez Hills, Calif. 90247.

ADAMS, PROF. JACK A(SHTON), b. Davenport, Iowa, Aug. 3, 22; m. 46; c. 2. PSYCHOLOGY. Ph.D.(psychol), Iowa, 51. Res. psychologist, U.S. Air Force Personnel & Training Res. Center, Air Res. & Develop. Command, Fla, 51-57; PROF. PSYCHOL, ILLINOIS, URBANA, 57- U.S.A, 43-45. Psychol. Asn; Psychonomic Soc. Engineering psychology; human learning. Publ: Human memory, McGraw, 67; Response feedback and learning, Psychol. Bull. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61801.

ADAMS, PROF. JAMES F(REDERICK), b. Andong, Korea, Dec. 27, 27; U.S. citizen; m. 61; c. 3. PSYCHOLOGY. B.A, California, 50; Ed.M, Temple, 51; James McKeen Cattell Fund grant, Miami (Ohio), 58; Ph.D.(psychol), Washington State, 59. Mem. staff, test bur, Temple, 51-52; asst. prof. PSYCHOL, Whitworth Col, 52-55; asst, Washington State, 55-57; res. assoc, Miami (Ohio), 57-59; asst. prof, TEMPLE, 59-62, assoc. prof, 62-66, PROF, 66- Bolton Fund res. grant, 60; vis. prof, Puerto Rico, 63-64. U.S.M.C, 45-46. AAAS; Psychol. Asn; Personnel & Guid. Asn. Counseling and adolescent psychology; history of psychology. Publ: Problems in counseling: A case study approach, 62 & Counseling and guidance: A summary view, 65, Macmillan; Understanding adolescence, Allyn & Bacon, 68. Address: Dept. of Psychology, Temple University, Philadelphia, Pa. 19122.

ADAMS, DR. JAMES P(ICKWELL), b. Carson City, Mich, Jan. 27, 95. ECONOMICS. A.B, Michigan, 19, A.M, 21; LL.D, Brown, 37; LL.D, Rhode Island, 55; hon. Ed.D, R.I. Col, 60. Instr. econ, Michigan, 19-21; asst. prof, Brown, 21-24, assoc. prof, 24-27, prof, 27-44, v.pres, 31-44, acting pres, 36-37; trustee & mem. exec. cmt, R.I. Sch. Design, 40-44; provost, Michigan, 45-51; chmn. bd. trustees, State Cols, R.I, 55-60; RETIRED. Trustee, Mary C. Wheeler Sch, 29-47, treas. bd. trustees, 29-34; trustee, Univ. Rhode Island Found, 60-; R.I. Col. Found, 64- Mem, R.I. Health Facilities Coun. & R.I. Cmn. Ed. Facilities Act, 65-; New Eng. Bd. Higher Ed, 57-60. Williams award, 60; Carroll mem. award, 61; Brotherhood award, Nat. Coun. Christians & Jews, 65. U.S.A, 18, Lt. Public utility economics and regulation; depreciation rates. Address: 29 Ogden St, Providence, R.I. 02906.

ADAMS, DR. JAMES RAY, b. Jena, La, Sept. 9, 27. PSYCHOLOGY. A.B, La. State, 45; Ph.D.(psychol), Columbia, 61. Assoc. dir. res, safety res. proj, Teachers Col, Columbia, 60-67; ASSOC. DIR. SAFETY RES, CONTINENTAL RES. INST, 68- U.S.A.F, 55-58, Capt. AAAS; Psychol. Asn. Psychology of safety; communications; small groups; human relations training; population problems. Address: 25 Cedar Lane, New York, N.Y. 10038.

ADAMS, DR. JOE KENNEDY, b. Crockett, Tex, Sept. 22, 20; m. 54; c. 2. PSYCHOLOGY. Ph.B, Wisconsin, 42, Ph.M, 43; A.M, Princeton, 48, Soc. Sci. Res. Coun. fel, 48-49, Ph.D, 49. Asst. psychol, Wisconsin, 42-43, 44-45; Off. Sci. Res. & Develop. projs, Brown, 43; Princeton, 46-47, instr. psychol. & math. statist, 47-48; asst. prof. psychol, Bryn Mawr Col, 49-56; clin. psychol. trainee, Vet. Admin. Hosp, Palo Alto, Calif, 56-58; res. assoc, ment. res. inst, Palo Alto Med. Res. Found, 58-60; INDEPENDENT RES, 60- T.W. Stanford fel, Stanford, 55-56; U.S. Pub. Health Serv. fel, 58-60. U.S.A, 44-46. Psychol. Asn. Cognitive processes; psychosis; ideological conflict. Publ: Basic statistical concepts, McGraw, 55; Psychosis: experimental and real, Psychedelic Rev, 63; Deception and intrigue in so-called mental illness, J. Humanistic Psychology, 64. Address: Big Sur, Calif. 93920.

ADAMS, PROF. JOHN BERRY, b. Millville, N.J, Apr. 8, 20; m. 47; c. 2. JOURNALISM, MASS COMMUNICATION. A.B, California, Berkeley, 53; M.S, Wisconsin, 54, Ph.D.(mass commun), 57. European sales mgr, Wheaton Glass Co, N.J, 46-49; broker, Harris Agency, Wildwood, N.J, 49-51; reporter, Wis. State J, 56-58; assoc. prof. JOURNALISM, NORTH CAROLINA, CHAPEL HILL, 58-64, PROF, 64- Asst. prof, Mich. State, 57-58. Consult, U.S. Agency Int. Develop. Commun. Seminars, 57-60; Psychol. Warfare Sch, Spec. Warfare Center, Ft. Bragg, 59-61; Methodist Bd. For. Missions, 67. U.S.A.F, 42-46, Res, 46-, Lt. Col. Asn. Ed. Journalism; Am. Coun. Ed. Journalism. International communication; communication theory; communication law. Publ: News Sources: three points of view, Univ. North Carolina, 64; A qualitative analysis of domestic and foreign news on the AP TA wire, Gazette, 65; What the foreign correspondent does for a newspaper's readers, Journalism Quart, 66. Address: University of North Carolina School of Journalism, Chapel Hill, N.C. 27514.

ADAMS, PROF. JOHN CLARKE, b. Evanston, Ill, Aug. 19, 10; m. 49; c. 2. POLITICAL SCIENCE. A.B, Northwestern, 32; Ph.D.(polit. sci), Chicago, 40; J.D, Rome, 47. Instr. citizenship, Hobart Col, 37-40; from instr. to assoc. prof. govt, Buffalo, 40-53; prof. pub. admin. & dir. in-serv. training progs. for Arab Govt. Off, American Univ. Beirut, 53-56; vis. prof. admin. law, for Univ. California at Bologna, 56-57; PROF. POLIT. SCI, SYRACUSE, 57- Fulbright vis. prof, Univ. Florence, 51-52 & 56-57, founder & resident dir. of Syracuse Semester, 59-61 & 63-65; vis. prof, American Univ. Beirut & Damascus Univ, 65-66. U.S. Dept. State labor attaché, U.S. Embassy, Rome, 44-47. U.S.N.R, 43-44, Lt. Comdr. Government and politics of Italy; legislative process in western democracies; comparative public law. Publ: Diritto costituzionale americano, Nuova Italia, Florence, 1st ed, 54, 2nd ed, 65; co-auth, Italy, In: Comparative labor movements, Prentice-Hall, 51; The government of Republican Italy, Houghton, 1st ed, 61, 2nd ed, 66. Address: Dept. of Political Science, Syracuse University, 109 Maxwell, Syracuse, N.Y. 13210.

ADAMS, PROF. JOHN F(RANKLIN), b. Tacoma, Wash, June 1, 19. ECONOMICS. B.A, Linfield Col, 40; fel, Col. Puget Sound, 40-42, M.A, 42; Huebner Found. Ins. Ed. fel, Pennsylvania, 42-43, Harrison scholar, 46-47, Ph.D, 49. Fiscal analyst, U.S. Bur. Budget, 43-45; economist, For. Econ. Admin, 45; asst. secy. & treas, Linfield Col, 45-46; instr. ECON, SCH. BUS. & PUB. ADMIN, TEMPLE, 46-49, asst. prof, 49-51, assoc. prof, 51-54, PROF, 54-, ASST. V.PRES. FINANCIAL AFFAIRS. 66-, dir. bur. bus. & econ. res, 48-62, asst. v.pres. res. & specialized serv, 59-67. Lectr, Wharton Grad. Sch. Finance & Commerce, Pennsylvania, 54-59. Ed, Econ. & Bus. Bull, Temple, 48-63. Mem. cmt. econ. & bus. res, Temple, 47-50; res. cmt, Del. Valley Coun, 54-; exec. dir, Pa. Bur. Employ. Security, 57-58, mem. employer accounts rev. bd; educational adv. bd, Pa. Ins. Dept; pub. mem. & chmn, Pa. State Adv. Coun; int. affairs adv. cmt, Commonwealth of Pa, 57-; educational adv. cmt. & cmt. exam, Pa. Ins. Cmn, 59-; mem, Nat. Cmn. Ins. Terminology. & mem. & editor, soc. ins. cmt, 62-; mem. & assoc. chmn. manpower task force, Chamber of Commerce, 63-66, mem. res. cmt, 65-; task force employ. security, Nat. Chamber Commerce, 64-66; bd. gov, int. ins. sem, Univ. Tex, 64-; eval. & adv. coun, Loman Found, 65; consult. & mem, Air Force Cmt. Ins. Ed, 65-; mem, Economists Nat. Cmn. Monetary Policy. Fel. Geront. Soc; Econ. Asn; Finance Asn; Acad. Polit. & Soc. Sci; Inst. Acct. & Statist. Asn. Publ: A comparative analysis of costs of insuring against losses due to automobile accidents, various hypotheses; Experience rating in unemployment compensation for Pennsylvania; Technological change, employment and unemployment for California and Pennsylvania. Address: School of Business & Public Administration, Temple University, Philadelphia, Pa. 19122.

ADAMS, DR. JOHN Q(UINCY), b. Bunceton, Mo, Mar. 11, 00; m. 26; c. 2. GEOGRAPHY. A.B, Missouri, 23, A.M, 25, Ph.D.(geog), 30. Instr. geol. & geog, Missouri, 24-29, asst. prof. geog, 29-38, assoc. prof, 38-46; res. geogr, U.S. War Dept, Wash, D.C, 42-51, res. supvr, Corps Engrs, U.S. Army, 51-64; RETIRED. Asn. Am. Geog; fel. Royal Geog. Soc. Regional geography of western Canada; urban geography; military and engineering geography. Address: 2354 N. Quebec St, Arlington, Va. 22207.

ADAMS, DR. JOHN S, b. Minneapolis, Minn, Sept. 7, 38; m. 62; c. 2. GEOGRAPHY. B.A, Col. St. Thomas, 60; M.A, Minnesota, 62, Ph.D.(geog), 66. ASST. PROF. GEOG, PA. STATE, 66- AAAS; Asn. Am. Geog; Geog. Soc; Econ. Asn; Regional Sci. Asn; Asn. Housing & Redevelop. Off. Housing; urban land use planning; location theory and theoretical geography; regional economic development. Address: Dept. of Geography, Pennsylvania State University, University Park, Pa. 16802.

ADAMS, DR. KENDALL A, b. McMinnville, Ore, June 4, 26; m. 63; c. 1. MARKETING MANAGEMENT, ECONOMICS. B.S, Oregon State, 51; M.A, Mich. State, 53, Ph.D.(mkt. mgt), 62. Mkt. specialist, Mich. State, 54-56, res. instr. mkt, 56-58, instr, 58-59, res. technician agr. econ, 59-62; asst. prof. MKT, Arizona State, 62-65; ASSOC. PROF, SOUTHERN ILLINOIS, 65- U.S.N, 44-46. Agr. Econ. Asn; Mkt. Asn. Managerial specialization through integrated organizational arrangements; managerial techniques in food retailing; evaluation of central business districts; fresh meat retailing in an underdeveloped economy. Publ: The food retailing experience—how it might be applied to farming, Mich. Farm Econ, 62; Mass retailing and the owner-managed stores, Bus. Perspectives, 66; Achieving market organization through voluntary and cooperative groups, J. Retailing, 66. Address: Dept. of Marketing, Southern Illinois University, Carbondale, Ill. 62901.

ADAMS, DR. LEONARD P(ALMER), b. Angelica, N.Y, Oct. 8, 06, m. 40; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. A.B, Alfred, 28; A.M, Cornell, 30, Ph.D, 35. Res. assoc, U.S. Cent. Statist. Bd, 35-36; economist, div. employ, State Dept. Labor, N.Y, 36-42; chief reports & anal, War Manpower Cmn, 42-46; head bur. bus. res, State Dept. Commerce, N.Y, 46-47; prof. & dir. res. & pub, sch. indust. & labor rels, Cornell, 47-67; RETIRED. Upjohn Found. for Employ. Res. support for book-length study of pub. employ. serv. in U.S. Consult, Joint Legis. Cmt. Unemploy. Ins; Retirement Adv. Inc, 60-; off. manpower policy, eval. & res, U.S. Dept. Labor, 67- Mem. Nat. Security Resources Bd, 50. Econ. Asn; Indust. Rels. Res. Asn. Labor market economics; employment and unemployment. Publ: Wartime manpower mobilization, a study of World War II experience in the Buffalo, N.Y. area; co-auth, Workers and industrial change; auth, Agricultural depression and farm relief in England 1813-1852, Augustus Kelly, reprinted in Econ. Classic Series, 66. Address: 13 La Grange Rd, Delmar, N.Y. 12054.

ADAMS, LEONARD W(ATSON), JR, Econ, see 10th ed, Soc. & Behav. Vols.

ADAMS, DEAN L(EWIS) W(HITAKER), b. Andrews, N.C, Apr. 8, 04. ECONOMICS. B.S, North Carolina, 25; Ph.D, Cornell, 49. Security analyst, Holsapple & Co, N.Y, 33-40; from asst. prof. to assoc. prof. econ, WASHINGTON & LEE, 40-43, 46-49, PROF. ECON. & DEAN SCH. COMMERCE & ADMIN, 49- U.S.N.R, 43-46, Lt. Comdr. Econ. Asn; Finance Asn. Monetary economics. Address: Dept. of Economics, Newcomb Hall, Washington & Lee University, Lexington, Va. 24450.

ADAMS, PROF. LOYCE, b. Cadiz, Tex, Jan. 10, 12. BUSINESS ADMINISTRATION, ECONOMICS. B.B.A, Tex. Col. Arts & Indust, 31; M.B.A, Texas, 35, South. Fel. Fund grant & Ph.D.(mkt. mgt), 59. Auditor & asst. to bus. mgr, Tex. Col. Arts & Indust, 31-37; instr. BUS. ADMIN, Hardin-Simmons, 37-42; SAM HOUSTON STATE COL, 42-45, asst. prof, 45-50, assoc. prof, 50-59, PROF, 59- Teacher, Heidelberg Am. Sch, Germany, 52-53. Supvr, Student Mkt. Inst, New York, 45-67; summer jr. exec. trainee, Foley's, Houston, Tex, 50. Behavioral sciences. Publ: Teach, travel and tell, 60 & Managerial psychology, 65, Christopher; Business, organization and management, In: Secretary's business review, Prentice-Hall, 59. Address: Dept. of Business Administration, Sam Houston State College, Huntsville, Tex. 77340.

ADAMS, DR. MICHAEL, b. Waterville, Wash, Jan. 7, 10; m. 38. PSYCHOLOGY. B.A, State Col. Wash, 31; M.S, Washington (Seattle), 40; Ph.D.(psychol), Iowa, 42. CHIEF CLIN. PSYCHOLOGIST, VET. ADMIN. MENT. HYG. CLIN, SEATTLE, 46- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 42-46, Capt. Fel. Psychol. Asn. Practicum training; psychopathology; psychotherapy. Publ: Co-auth, Iowa legal aptitude test; Investigation of pre-law grades and other indices of law school aptitude & Experimental edition of the Iowa legal aptitude test, Ed. Psychol. Measurement. Address: Veterans Administration Hospital Outpatient Mental Hygiene Clinic, 4435 Beacon Ave. S, Seattle, Wash. 98108.

ADAMS, DR. OSCAR S(TEWART), b. Reynolds, Ga, Aug. 1, 25. PSYCHOLOGY. A.B, Emory, 48, M.A, 49; fel, Ohio State, 51-52, Ph.D.(psychol), 52. Res. assoc. & instr, Ohio State, 52-53; asst. prof, Emory, 53-55; assoc. scientist, LOCKHEED-GA. CO, 55-60, mgr, human factors res. dept, 60-61, opers. anal. dept, 61-63, MGR. ADV. STUDIES DIV, 63- U.S.A, 43-46, 2nd Lt. Psychol. Asn; Human Factors Soc. Engineering psychology; systems analysis. Publ: Relation among some measures of pattern discriminability, J. Exp. Psychol; Stereogram decentration and stereo-base as factors influencing the apparent size of stereoscopic pictures, Am. J. Psychol; Human performance as a function of the work-rest ratio during prolonged confinement, Aerospace Med. Address: Advanced Studies Division, Dept. 72-08, Lockheed-Georgia Co, Marietta, Ga. 30061.

ADAMS, DR. PAUL L(IEBER), Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

ADAMS, DR. QUINCY, Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

ADAMS, DR. RICHARD E(DWARD) W(OOD), b. Kansas City, Mo, July 17, 31; m. 55; c. 4. ANTHROPOLOGY. B.A, New Mexico, 53; Nat. Sch. Anthrop. & Hist, Mex, 53; M.A, Harvard, 60, Ph.D.(anthrop), 63. Archaeologist & archaeologist-in-charge, Tikal Proj, univ. mus, Pennsylvania, 58; asst. prof. ANTHROP, MINNESOTA, MINNEAPOLIS, 63-67, ASSOC. PROF, 67- Nat. Sci. Found. res. grant, 65-66. U.S.M.C.R, 50-67, Capt. AAAS; Anthrop. Asn; Soc. Am. Archaeol. New world prehistory, especially Middle American Archaeology; culture history of the Maya; excavations and other research in North West Florida, South Dakota, Maya lowlands and highlands; culture change and process. Publ: Seibal Peten: una secuencia ceramica preliminar y un nuevo mapa, Estudios de Cultura Maya, 63; The ceramic sequence at Altar de Sacrificios and its implications, Actas 35th Int. Cong. 64; co-auth, Maya lowland ceramics: a report from the 1965 Guatemala City Conference, Am. Antiquity, 67. Address: Dept. of Anthropology, University of Minnesota, Minneapolis, Minn. 55455.

ADAMS, PROF. RICHARD N(EWBOLD), b. Ann Arbor, Mich, Aug. 4, 24; m. 51; c. 3. ANTHROPOLOGY. B.A, Michigan, 47; M.A, Yale, 49, Ph.D. (anthrop), 51. Ethnologist, inst. soc. anthrop, Smithsonian Inst, 50-51; anthropologist, WHO, 52-56; PROF. anthrop. & sociol, Mich. State, 56-62; ANTHROP, TEXAS, 62- Vis. prof, California, 60-61. Consult, Ed. & World Affairs, 66-; prog. adv, Ford Found, Latin Am, 67- U.S.N.R, 43-46, Lt.(jg). AAAS; Anthrop. Asn; Sociol. Asn; Soc. Appl. Anthrop.(v.pres, 61, pres, 62); Ethnol. Soc; Latin Am. Studies Asn.(v.pres, 67, pres, 68). Social and applied anthropology; sociology of Latin America, Central America and Panama; energy and human society; formal analysis of complex cultures; national social and power structures. Publ: Second sowing: power and secondary development in Latin America, Chandler Pub, 67; Culture surveys of Panama, Nicaragua, Guatemala, El Salvador, Honduras; A community in the Andes. Address: Dept. of Anthropology, University of Texas, Austin, Tex. 78712.

ADAMS, PROF. ROBERT McC(ORMICK), b. Chicago, Ill, July 23, 26; m. 53; c. 1. ANTHROPOLOGY. Ph.B, Chicago, 47, M.A, 52, Ph.D.(anthrop), 56. Instr. ANTHROP, CHICAGO, 54-57, asst. prof, 57-61, assoc. prof, 61-62, PROF, 62-, DIR. ORIENTAL INST, 62-, res. asst, 54-57, res. assoc, 57-61. Morgan lectr, Univ. Rochester, 65; annual prof, Baghdad Sch, Am. Schs. Oriental Res, 66-67. Rep. anthrop, Nat. Res. Coun, 67-; mem, German Archaeol. Inst. U.S.N.R, 44-46. Fel. AAAS; Anthrop. Asn; fel. Am. Acad. Arts. & Sci. Development study of early civilization; history of land use and irrigation. Publ: Co-ed, City invincible; auth, Land behind Baghdad: a history of settlement on the Diyala plains, Univ. Chicago, 65; The evolution of urban society: early Mesopotamia and prehispanic Mexico, Aldine, 66. Address: 5201 S. Kimbark Ave, Chicago, Ill. 60615.

ADAMS, ROY L(EE), b. Parkman, Ohio, Mar. 5, 18; m. 44; c. 2. SOCIAL SCIENCE. A.B, Hiram Col, 41; Chicago, 42-44; B.D, Chicago Theol. Sem, 45. Statistician, State Dept. Pub. Welfare, Ind, 46-52, chief res. & finance, Nev, 52-56, from chief statistician to supvr. statist. & anal, Ohio, 56-61; RES. DIR, OHIO CITIZEN'S COUN. HEALTH & WELFARE, 61- Lectr, sch. med, Indiana, 50-51. AAAS; Pub. Welfare Asn; Statist. Asn; Asn. Social Workers; Acad. Cert. Soc. Workers; assoc. Sociol. Asn. Public welfare. Address: 274 W. Kenworth Rd, Columbus, Ohio 43214.

ADAMS, PROF. RUSSELL BLAIR, b. Enderlin, N.Dak, Jan. 1, 26, m. 48; c. 2. GEOGRAPHY. B.B.A, Minnesota, 49, B.S, 52, M.A, 55. Teacher, high sch, Minn, 52-53; instr. soc. sci, Minnesota, Minneapolis, 54-56; prog. planner comput, Remington Rand Univac, St. Paul, 57-58; res. dir, transportation planning, Minn. Hwy, 58-61; asst. dir, urban studies, Upper Midwest Econ. Study, Minneapolis, 61-64; lectr. GEOG, MINNESOTA, MINNEAPOLIS, 64-66, ASST. PROF, 66- U.S.A, 45-47. Statist. Asn; Am. Geog. Soc; Asn. Am. Geog; Philos. Sci. Asn. Quantitative geography; computer applications in social sciences; economic geography; Soviet Union; city, urban and regional planning. Publ: Population mobility in the upper midwest, Upper Midwest Econ. Study, 64; co-auth, Population projections in the upper midwest, Upper Midwest Econ. Study, 64 & Urban planning and geographic training, Prfnl. Geogr, 7/67. Address: Dept. of Geography, University of Minnesota, 20 Melbourne S.E, Minneapolis, Minn. 55455.

ADAMS, DR. SIDNEY, b. Mt. Vernon, Minn, May 1, 06; m. 35; c. 1. PSYCHOLOGY. B.S, Washington (Seattle), 28, M.S, 30; Ph.D.(psychol), California, 33. Specification writer, U.S. Occup. Res. Prog, 35-37; personnel res, Tenn. Valley Authority, 37-39, personnel officer, 39-41; test developer, U.S. Civil Serv. Cmn, 46-48; res. analyst & aviation psychologist, U.S. Air Force, 48-50, 51-54; TEST DEVELOPER, U.S. CIVIL SERV. CMN, 54- Vis. lectr, Washington (Seattle), 59. Med.Serv.C, 41-46, Res, 46-61, Lt. Col. AAAS; fel. Psychol. Asn; Anthrop. Asn. Child and vocational psychology; psychology of language; occupations studies. Publ: Report-Human behavior in work, Govt. Printing Off, 51. Address: 242 N. Granada, Arlington, Va. 22203.

ADAMS, DR. STUART N(ICHOLAS), b. Vivian, W.Va, Nov. 9, 09; m. 40. SOCIOLOGY. B.Sc, Ohio State, 37, M.A, 41, Ph.D.(sociol), 48. Instr. sociol, Ohio State, 46-49, res. assoc, 51-53; teaching assoc, Northwestern, 49-50; assoc. prof, Col. of Wooster, 50-51; res. assoc, Human Resources Res. Inst, 53-54; California, 54-55; sr. res. analyst, State Dept. Corrections, Calif, 55-57; State Dept. Justice, 57-58; Calif. Youth Authority, 58-62; Res. dir, Los Angeles County Probtn. Dept, 62-66; res. criminologist, California, Berkeley, 66-68; ASSOC. DIR. PLANNING & RES, DEPT. CORRECTIONS, 68- U.S.A.A.F, 42-46. Sociol. Asn; Soc. Study Social Probs; Soc. Criminol; Correctional Asn; Nat. Coun. Crime & Delinquency. Criminology and delinquency; corrections; social psychology. Publ: Probation in California; Patterns of narcotic involvement; Comparisons of correctional treatments. Address: 1101 Third St. S.W, Washington, D.C. 20024.

ADAMS, DR. THOMAS C, b. San Francisco, Calif, Nov. 4, 18; m. 57; c. 2. FOREST ECONOMICS. B.S, California, 40, A.B, 41; M.A, Michigan, 51, Ph.D.(forestry), 52. Forest economist, Pac. Northwest Forest & Range Exp. Sta, U.S. Forest Serv, 52-55; instr. forest mgt, sch. forestry, Ore. State Col, 55-56; asst. prof, 56-57; ECONOMIST, PAC. NORTHWEST FOREST & RANGE EXP. STA, U.S. FOREST SERV, 57- Consult, Stanford Res. Inst, 55. U.S.N.R, 40-47, Lt. Comdr. Econ. Asn; Soc. Am. Foresters; Farm Econ. Asn. Economic analysis of logging costs, thinning operations, economic value and employment associated with log exports. Publ: Cooperative and federal sustained-yield forest units. Address: Pacific Northwest Forest & Range Experiment Station, U.S. Forest Service, P.O. Box 3141, Portland, Ore. 97208.

ADAMS, DR. T(HOMAS) W(ILLIAM), b. Pittsburgh, Pa, Dec. 3, 33; m. 62; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Pennsylvania, 55; dipl. Spanish, Madrid, 57; Pittsburgh, 57-58; M.A, Oklahoma, 59, Citizenship Clearing House fel, 61-62, Ph.D.(polit. sci), 62. Asst. admin, Gov. Off, Pa, 61-62; res. plans officer soc. sci, U.S. Army Res. Off, Wash, D.C, 62-64; policy analyst, NASA HQ, 64-66, SR. POLICY ANALYST, 66- Lectr, Arizona State, summer 61; Virginia, North. Center, 63-; Relm Found. res. grant, 66-67; Am. Polit. Sci. Asn. Congressional fel, 67-68. Staff mem, Senate Subcmt. Intergovt. Rels, 68; sponsor, Ewing Found. Polit. Sci. Asn; Soc. Pub. Admin; Inst. Strategic Studies; Mid. East Inst. International relations; communism in Cyprus and the Middle East; public administration; science and public policy; systems analysis. Publ: U.S. Army area handbook for Cyprus, U.S. Govt. Printing Off, 64; co-auth, Cyprus between East and West, Hopkins, 68; NASA's university program, Pub. Admin. Rev, 3/67. Address: 2812 34th St. N.W, Washington, D.C. 20008.

ADAMS, PROF. WALTER, b. Vienna, Austria, Aug. 27, 22. ECONOMICS. A.B, Brooklyn Col, 42; Chicago, 42-43; A.M, Yale, 46, Ph.D, 47. Instr. ECON, Yale, 45-47; from asst. prof. to PROF, MICH. STATE, 47- Vis. prof, Salzburg Seminar, 59 & 60; prof, Grenoble, 66. Prfnl. consult, small bus. cmt, U.S. House of Rep, 50; U.S. Senate, 51-57, judiciary cmt, 59-61. Mem. U.S. Adv. Cmn. Int. Ed. & Cultural Affairs. Contrib, Yale Law J, Am. Econ. Rev; Quart. J. Econ. & Diogene. U.S.A, 43-45, 1st Lt; Bronze Star Medal. Econ. Asn. Structure of American industry; antitrust policy; European integration; industrial technology. Publ: Monopoly in America; The brain drain; Structure of American industry. Address: Dept. of Economics, Michigan State University, East Lansing, Mich. 48823.

ADAMS, DR. WARREN E(DWARD), b. Minneapolis, Minn, Feb. 7, 24; m. 57; c. 2. ECONOMICS. A.B, California, 47, Ford Found. fel, 52-55, Ph.D. (econ), 55. Asst. agr. econ, California, 48-49, labor & rural sociol, 49-52; asst. prof. agr. econ, Univ. Arizona team, Iraq, 55-57; econ, Swarthmore Col, 57-58; Texas, 58-63; agr. econ. adv, U.S. Agency Int. Develop, New Delhi, India, 63-67; ASSOC. PROF. ECON, EARLHAM COL, 67- Carnegie Found. fel, Harvard Law Sch, 62-63. U.S.N.R, 42-46, Ens. Econ. Asn; Indust. Rels. Res. Asn; Soc. Int. Develop; Asn. Asian Studies; Indian Agr. Econ. Asn. Agrarian development problems in Middle East and South Asia; migratory labor; poverty issues. Publ: Note on cost-push inflation and regional economics; The pre-revolutionary decade of land reform in Iraq, Econ. Change & Cultural Develop, 4/63; Accelerating India's food grain production, 1967-68 to 1970-71: requirements and prospects for a yearly growth rate of five percent, For. Agr. Econ. Report. 40, U.S. Dept. Agr, Econ. Res. Serv, 3/68. Address: Dept. of Economics, Earlham College, Richmond, Ind. 47374.

ADAMS, PROF. WILLIAM C(ARROLL), b. Star City, Ark, July 15, 30. ECONOMICS. B.A, Ark. State Col, 51; M.A, Arkansas, 53, Ph.D.(econ), 63. Instr. BUS. ADMIN, EAST TEXAS STATE, 60-65, PROF, 65- Gen. Elec. Co. res. fel, Virginia, 63; Bus. Fel. Exchange Prog, summer 64. Qm.C, 54-57. Econ. Asn. Effects of inflation upon capital formation, especially in the area of public utilities. Publ: A checklist for acquisitions, South. Union Gas Co, 65; The inflationary erosion of capital: a case study, Pub. Utilities Fortnightly, 9/64. Address: Dept. of Business Administration, East Texas State University, Commerce, Tex. 75428.

ADAMS, DR. WILLIAM CURTIS, Pediat, Infectious Diseases, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

ADAMS, PROF. WILLIAM W(ALTER), JR, b. Tuscaloosa, Ala, July 8, 29; m. 53; c. 2. POLITICAL SCIENCE. A.B, Kansas, 51, M.A, 54; summer, Monterrey Inst. Tech, Mex, 52; Univ. Kansas City, 57; Ford Found. fel, Columbia, 59-60, M.A. & cert. Russian Inst, 60, Danforth Found. fel, 66-67, Ph.D, 68. Asst. prof. hist. & polit. sci, WILLIAM JEWELL COL, 55-58, assoc. prof. POLIT. SCI, 60-67, PROF. & CHMN. DEPT, 68- Exchange prof, Park Col, 63, vis. prof, 64; Kans. City Regional Coun. Higher Ed. travel grant, Munich & U.S.S.R, 64; instr, exten, Richards-Gebauer Airbase, Missouri, Kansas City, 65; vis. assoc. prof,Tulane, 67. Chmn, Liberty

Charter Study Cmt, Mo, 63-65. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Soviet government and law; American constitutional law; international politics; crime in the Union of Soviet Socialist Republics. Publ: Communism in transition, Baptist Student, 12/65. Address: 135 N. Missouri, Liberty, Mo. 64068.

ADAMS, DR. WILLIAM Y(EWDALE), b. Los Angeles, Calif, Aug. 6, 27; m. 55; c. 2. CULTURAL ANTHROPOLOGY. A.B, California, 48; Wenner-Gren fel. & Ph.D.(anthrop), Arizona, 58. Sr. archaeologist, Glen Canyon Proj, Mus. North Ariz, 57-59; prog. specialist. archaeol, UNESCO & Sudan Antiq. Serv, 59-66; ASSOC. PROF. ANTHROP, KENTUCKY, 66- U.S.N, 45-46. Fel. AAAS; fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; Ethnol. Soc; Ethnohist. Soc; Egypt Explor. Soc; Philos. Soc. Sudan. Cultural dynamics and culture change; theory of culture history. Publ: Shonto: a study of the role of the trader in a modern Navajo community; Post-pharaonic Nubia in the light of archaeology, J. Egyptian Archaeol, 65, 66, 67. Address: Dept. of Anthropology, University of Kentucky, Lexington, Ky. 40506.

ADAMSON, DR. JOHN F(ULLER), b. Wilmington, Del, Oct. 16, 23; m. 52; c. 1. PSYCHOLOGY. B.A, Swarthmore Col, 48; M.A, Pennsylvania, 49, Ph.D, 57. Intern clin. psychol. Del. State Hosp, 50-51; extern, Phila. Gen. Hosp, Pa, 51-52; psychologist, Jefferson Hosp, 52-53; clin. psychologist, Wilmington Child Guid. Center, Del, 53-57; sr. clin.psychologist, Warren County Guid. Center, N.J, 57-60; clin. psychologist, Del. County Child Guid. Clin, Pa, 60-62, acting chief psychologist, 62-63; chief psychologist, East. Diag. & Eval. Center, PHILA, PA, 63-65; STAFF PSYCHOLOGIST, CHILDREN'S UNIT, EAST. PA. PSYCHIAT. INST, 65- Consult. supvr. psychol, East. Diag. & Eval. Center, 65-66. U.S.A, 43-46. Psychol. Asn; Asn. Ment. Deficiency. Clinical psychology with children and adolescents; personality evaluation and psychotherapy in a psychiatric setting; study and treatment of emotionally disturbed children and adolescents in an out-patient and in-patient relationship. Publ: Co-auth. Foreknowledge as a factor in perceptual defense & Aldarsone in the treatment of general paresis; A modified team approach for the evaluation of children with severe mental retardation, Community Ment. Health J, (in press). Address: 3400 Highland Ave, Drexel Hill, Pa. 19026.

ADAMSON, DR. ROBERT E(MORY), b. Jacksonville, Fla, Dec. 1, 21; m. 48; c. 1. PSYCHOLOGY. A. B, Stanford, 48, A.M, 49, Ph.D, 52. Asst. prof. psychol, Carleton Col, 52-56; Emory, 56-59; mem. dept. staff, Syst. Develop. Corp, 59-64; dep. chief. behav. sci, Air Force Off. Sci. Res, 64-65; dir. inst. behav. res, FLORIDA ATLANTIC, 65-66, CHMN. DEPT. PSYCHOL, 66- U.S.A, 44-45. Psychol. Asn. Human learning and problem solving. Publ: Functional fixedness as related to problem solving and co-auth, Functional fixedness as related to elapsed time and to set, J. Exp. Psychol. Address: Dept. of Psychology, Florida Atlantic University, Boca Raton, Fla. 33432.

ADAMSON, WENDELL M(AVITY), b. Nashville, Tenn, Sept. 2, 07. ECONOMICS. A.B, Indiana, 28, M.A, 37; fel, Columbia, 38-39; Indust. Col. Armed Forces, 53. Assoc. prof. bus. statist, univ. & econ. statistician, bur. bus. res, Alabama, 31-50; economist, U.S. Govt, 50-61; RES. & DEVELOP. ADMINSTR, U.S. DEPT. AIR FORCE, 61- Assoc. transportation economist, Corps Engrs, U.S. War Dept, 35; chief economist, study of commodity products in southeast, Rockefeller Found. & Univ. Alabama, 40-42; sr. indust. economist, War Prod. Bd, 42; int. economist, For. Econ. Admin, Italy, 45-46. U.S.A.A.F, 42-45. Econ. Asn; Statist. Asn; Regional Sci. Asn. Cost effectiveness analyses; regional economic and industrial development; social accounting; estimates of income in small geographic areas; industrial markets for raw and semifinished products. Publ: Industrial activity in Alabama, 1913-1931; Income in counties of Alabama, 1929 and 1935; co-auth, Iron and steel industries of the South. Address: 1400 Mountain View Ave, Alamogordo, N.Mex. 88310.

ADDEN, DR. ROBERT S(PENCER), b. Orangeburg, S.C, Jan. 1, 23; m. 53; c. 2. BUSINESS ADMINISTRATION. B.S, The Citadel, 47; M.B.A, Pennsylvania, 48; Ph.D, North Carolina, 60. Instr. acct, Pennsylvania, 47-48; from asst. prof. to ASSOC. PROF. BUS. ADMIN, THE CITADEL, 48-, HEAD DEPT, 62- Address: Dept. of Business Administration, The Citadel, Charleston, S.C. 29409.

ADDINGTON, DR. MILTON C(ALDWELL), b. Durant, Miss, Mar. 15, 24; m. 47; c. 2. PSYCHOLOGY. A.B, Southwestern at Memphis, 47; M.A, Tennessee, 49, Ph.D, 51. Clin. psychologist, Vet. Admin. Hosp, Memphis, 51-57; PSYCHOL. CONSULT, 57- Instr, exten. div, Tennessee, 52-57; spec. instr, Memphis State, 61-68. U.S.M.C, 43-46, Lt. Psychol. Asn. Executive selection and development. Publ: Effect of isoniazid upon the emotions and the serial electroencephalograms of tuberculous patients, Am. Rev. Tuberc; Note on the Pascal and Suttell Scoring System of the Bender-Gestalt Test, J. Clin. Psychol. Address: Suite 704, 44 N. Second St, Memphis, Tenn. 38103.

ADELMAN, DR. FRED, b. Malden, Mass, May 1, 30; m. 52; c. 2. ANTHROPOLOGY. B.A, Yale, 51; M.A, Pennsylvania, 54, Soc. Sci. Res. Coun. fel, 57-59, Samuel S. Fels Found. fel, 58-59, Ph.D.(anthrop), 61; Ford Found. fel, Washington (Seattle), 54-55. Asst. prof. ANTHROP, Pittsburgh, 59-62; ASSOC. PROF, CHATHAM COL, 62- Lectr, Chatham Col, 61-62; Fulbright summer fel, Inst. Indian Civilization, 63; Nat. Defense Ed. Act for. lang. fel, 64-65. AAAS; fel. Anthrop. Asn. Culture change; social structures; peoples of Central and Northern Asia. Publ: Kalmyk culture renewal; chaps, In: Area handbook for Caucasia preface, In: Mongolia and the Mongols, Indiana, 67. Address: 3915 Beechwood Blvd, Pittsburgh, Pa. 15217.

ADELMAN, DR. HARVEY MANUEL, b. Detroit, Mich, Aug. 5, 26; m. 55; c. 3. PSYCHOLOGY. B.A, Wayne, 50, M.A, 51; Ph.D, Mich. State, 54. Instr. psychol, Mich. State, 52-53; mem. staff res, State of Mich, 53-55; soc. scientist, Rand Corp, 55-57; SR. SOC. SCIENTIST, SYST. DEVELOP. CORP, SANTA MONICA, 57- Lectr, Univ. Southern California, 67- U.S.A, 44-46. Psychol. Asn. Philosophy of learning; motivation; motor skills; perception; operations research; experimental design; theory and systems. Publ: Learning and extinction based upon frustration, food reward and exploratory tendency elicitation theory & Resistance to extinction as a function of the type of response elicited by frustration, J. Exp. Psychol; An analysis of two typical learning situations, Psychol. Rev. Address: 19181 Castlebay Lane, Northridge, Calif. 91324.

ADELMAN, PROF. IRMA, b. Cernovitz, Roumania, Mar. 14, 30; nat; m. 50; c. 1. ECONOMICS. B.S, California, 50, M.A, 51, Ph.D.(econ), 55. Teaching assoc. ECON, California, 55-56, instr, 56-57, lectr, 57-58; vis. asst. prof, Mills Col, 58-59; acting asst. prof, Stanford, 59-61, asst. prof, 61-62; assoc. prof, Hopkins, 62-66; PROF, NORTHWESTERN, 66- Soc. Sci. Res. Coun. res. fel, 61-62. Consult, Cong. Joint Econ. Cmt, 61; U.S. Bur. Labor Statist, 61; div. indust. develop, UN, 61-62; Agency Int. Develop, 62- Econ. Asn; Economet. Soc; Statist. Asn. Interdisciplinary and quantitative approaches to the study of economic development of underdeveloped areas; econometrics. Publ: Theories of economic growth and development; co-auth, Society politics and economic development, Hopkins, 67 & Investigation into the dynamic nature of the Klein-Goldberger model, Econometrica. Address: Dept. of Economics, Northwestern University, Evanston, Ill. 60201.

ADELMAN, DR. JOSEPH J(AMES), b. Boston, Mass, May 8, 28; m. 60. CLINICAL PSYCHOLOGY. B.S, Tufts, 48; A.M, Boston, 49; Ph.D.(soc. psychol), Massachusetts, 59. Asst. & acting instr. psychol, Boston, 48-50; asst, Massachusetts, 53-56; instr, Wichita, 56-57; asst, State Div. Youth Serv, Mass, 57-59; clin. trainee, VET.ADMIN. HOSP, Northampton, Mass, 59-61, CLIN. PSYCHOLOGIST & CLIN. INSTR. PSYCHIAT, ALBANY, N.Y, 61- U.S.A, 51-52. Psychol. Asn. Group dynamics; structure and change of attitudes; psychotherapy; personality assessment. Address: 124 Mosher Rd, Delmar, N.Y. 12054.

ADELMAN, PROF. M(ORRIS) A(LBERT), b. New York, N.Y, May 31, 17. ECONOMICS. B.S.S, City Col. New York, 38; Soc. Sci. Res. Coun. fel, Harvard, 47-48, Ph.D, 48. Economist, War Prod. Bd, 41-42; Fed. Reserve Bd, 46; from asst. prof. to PROF. ECON, MASS. INST. TECH, 48- Wells prize, Harvard, 49-50. Am. Econ. Asn; Royal Econ. Soc. Industrial organization; public policy on monopoly and competition. Publ: The A and P Company: Cost-price behavior and public policy; Effective competition and the anti-trust laws, Harvard Law Rev; Measurement of industrial concentration, Rev. Econ. & Statist. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

ADELSON, DR. DANIEL, b. New York, N.Y, Sept. 19, 18; m. 48; c. 3. PSYCHOLOGY. B.A, City Col. New York, 40; M.A, New Sch. Soc. Res, 53; Ph.D, Columbia, 57. Vol. agency liaison officer, dep. chief, U.S. Zone Vol. Agency Div, UNRRA, Germany, 46-47; Int. Refugee Orgn, 47-48; res. assoc. & soc. psychologist, Altro Health & Rehab. Serv, Inc, New York 53-54, 55-56; assoc. soc. sci, Jewish Bd. Guardians, 54-55; PRIN. INVESTR. & PROJ. DIR, STUDY OF ATARAXIC DRUGS WITH SCHIZOPHRENIC PATIENTS, STATE DEPT. MENT. HYG, CALIF, 57- Lectr, sch. nursing, California, San Francisco, 60-, dir. community ment. health prog, 66-, assoc. prof. in residence, med. center, 67-; res. assoc, inst. human develop, California, Berkeley, 60-; asst. dir, Center Training Community Psychiat, 61-65. Res. consult, Child Welfare League of Am, New York, 56; consult, Marin County Ment. Health Serv, 66- U.S.A, 43-45; Bronze Star Medal with Oak Leaf Clusters. AAAS; Psychol. Asn; Pub. Health Asn. Self-acceptance and self-identity in relation to wider cultural values; evaluation of services for the mentally ill; group dynamics; community psychiatry. Publ: Some aspects of value conflict under extreme conditions; Psychiatry; Study of phenothiazines with male and female chronically ill schizophrenic patients, J. Nervous & Ment. Disease; Attitudes toward first names, Int. J. Soc. Psychiat, Spec. Convention Issue, 8/64. Address: 26 Alvarado Rd, Berkeley, Calif. 94705.

ADELSON, PROF. JOSEPH, b. New York, N.Y, July 25, 25; m. 46; c. 3. PSYCHOLOGY. B.S, City Col. New York, 45; M.A, California, 47, Ph.D, 50. Instr, psychol, Mich. State, 50-51; mem. faculty soc. sci, Bennington Col, 51-56; asst. prof. PSYCHOL, MICHIGAN, 56-59, assoc. prof, 59-63, PROF, 63-, ASST. DIR. PSYCHOL. CLIN, 56- Res. assoc, surv. res. center, Michigan, 54-56, consult, 56-58, coordinator, prfnl. training clin. psychol, 61-64; Ford Found. Behav. Sci. fel, 57; Soc. Sci. Res. Coun. faculty res. fel, 64. Fel. Psychol. Asn; fel. Sociol. Asn. Personality theory; psychology of adolescence; political socialization. Publ: Co-auth, The adolescent experience, Wiley, 66; auth, The mystique of adolescence, Psychiatry, 64; Teacher as a model, Am. Scholar. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

ADELSON, DR. MARVIN, b. Brooklyn, N.Y, May 29, 26; m. 61. PSYCHOLOGY. B.S.E.E, Va. Polytech, 47; M.A, Illinois, 50, fel, 50-52, Ph.D.(psychol), 52. Instr. psychol, Illinois, 52-54, asst. prof, 54-55; mgr, command-control & info. systs. dept, Hughes Aircraft Co, 55-61; PRIN. SCIENTIST & MGT. HUMAN RESOURCES PROG, SYST. DEVELOP. CORP, 61-, dir. ed. policy res. & support center, prin. investr, systs. approach nat. manpower adjustment syst. Res. assoc, aviation psychol. lab, Illinois, 52-55; vis. lectr, Southern California, 55-56. Exec. dir, cmt. utilization sci. & eng. manpower, Nat. Acad. Sci, 63-64; prog. mgr, Gov. Cmn. Los Angeles Riots, 65; consult, Nat. Indust. Conf. Bd, 67- Mem. cmt. spec. personnel, U.S. Dept. Labor, 64-; panel on counseling & selection, Nat. Manpower Adv. Cmt, 65- U.S.A, 44-46. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc; Sci. Res. Soc; Human Factors Soc; Psychonomic Soc; N.Y. Acad. Sci. Information and decisions; social change. Publ: Co-auth, Career guidance, U.S. Dept. Labor, 10/66; ed, Planning education for the future, Am. Behav. Scientist, 3/67; auth, Educational ends and innovational means, In: Inventing education for the future, Chandler Pub, 67. Address: 228 Monte Grigio Dr, Pacific Palisades, Calif. 90272.

ADENWALLA, DR. MINOO D, b. Poona, India, Oct. 21, 27; m. 55; c. 2. POLITICAL SCIENCE. B.A, Bombay, 48, fel, 48-49; M.S, Northwestern, 53, Ph.D.(polit. sci), 56. Asst, Northwestern, 52-55; vis. instr. polit. sci, Kenyon Col, 57-58; asst. prof, Missouri, 58-59; GOVT. & HIST, LAWRENCE, 59-62, ASSOC. PROF, 62- Howard Found. fel, sch. Oriental studies & inst. hist. res, London Univ, 62-63; assoc. prof, Wesleyan, summers, 64 & 66. Asn. Asian Studies. South Asian nationalism and politics; Swatantra party of India. Publ: Hindu concepts and the Gita in early Indian national thought, In: Studies on Asia, Univ. Nebraska, 61; Asian studies at Lawrence College, In:

Asian studies in liberal arts colleges, Asn. Am. Cols, 61; British responses to Indian nationalism: the Irwin Declaration on Dominion Status, 1929, In: Studies on Asia, Univ. Nebraska, 64. Address: Dept. of Government, Lawrence University, Appleton, Wis. 54911.

ADER, PROF. EMILE B, b. New Orleans, La, Oct. 9, 21; m; c. 3. POLITICAL SCIENCE. A.B, Tulane, 41, M.A, 42; Ph.D, California, 51. Instr. POLIT. SCI, Tulane, 46; asst, California, 46-48; from asst. to assoc. prof, Tulsa, 48-59, PROF, 59-65; Midwestern, 65-67; ARKANSAS, 68- Cultural affairs officers, U.S. Info. Agency, 56-57; Fulbright lectr, Am. Studies, Liberia, 67-68. Consult, U.S. Naval War Col, 59; summers, Pan Am. Petrol. Corp, 52-54. U.S.A, 43-45. Polit. Sci. Asn. American foreign policy; international relations; communism. Publ: Co-auth, American government; Dixiecrat movement; Socialism, Barron's Ed. Series, 66. Address: Dept. of Government, University of Arkansas, Fayetteville, Ark. 72701.

ADER, DR. ROBERT, Psychol, see 11th ed, Phys. & Biol. Vols.

ADERMAN, DR. MORRIS, b. Brooklyn, N.Y, June 29, 27; m. 59; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 50; M.A, Oregon, 52; Ph.D.(psychol), Texas, 56. Asst. PSYCHOL, Texas, 54-56; from instr. to asst. prof, ILL. INST. TECH, 56-62, ASSOC. PROF, 62- Instr. Roosevelt, 57-58; res. assoc. med. sch, Northwestern, 60-61; assoc. proj. dir, Presby-St. Luke's Hosp, 61-62; res. consult, U.S. Civil Serv. Cmn, 64-66; res. assoc, Chicago Med. Sch, 64-66, asst. prof, 66- U.S.A.A.F, 45-46. AAAS; Psychol. Asn. Learning theory; perception; motivation; comparative psychology; psychopharmacology; industrial. Publ: Effect of differential training upon the relative strength of place versus response habits, J. Comp. Physiol. Psychol; co-auth, Learned responses to targets at subceptual levels, Perceptual & Motor Skills, 64 & Effects of contralateral cortex ablation upon conditioned flexion responses, J. Comp. & Physiol. Psychol, 65. Address: Dept. of Psychology, Illinois Institute of Technology, Chicago, Ill. 60616.

ADES, PROF. HARLOW WHITING, Neurophysiol, see Suppl. II & IV to 11th ed, Phys. & Biol. Vols.

ADIS-CASTRO, DR. GONZALO, b. Guatemala City, Guatemala, Dec. 28, 27; nat. CLINICAL PSYCHOLOGY. A.B, Indiana, 52; Ph.D, California, 57. CHIEF CLIN. PSYCHOL. DEPT, HOSP. PSIQUIATRICO CHAPUI, 57-; DIR. PSYCHOL. RES. CENTER, UNIV. COSTA RICA, 60-, chief counseling sect, 57-60. Am. Psychol. Asn; Inter-Am. Soc. Psychol. Interest and university admission tests; socio-economic aspects of mental illness in Costa Rica; prevalence of psychiatric symptomatology; attitude toward mental illness. Publ: Co-auth, Olfactory discrimination among three etiological groups of mental deficients, Training Sch. Bull; Psychophysical methods in the study of word recognition, Science; Epidemiologia del alcoholismo en America Latina, Acta Psiqhiatrica 7 Psicologia de America Latina, 67. Address: Apartado 3541, San José, Costa Rica.

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ADKINS, PROF. DOROTHY C, b. Atlanta, Ohio, Apr. 6, 12; m. 59. PSYCHOLOGY. B.S, Ohio State, 31, Ph.D.(psychol), 37. Asst. psychol, Ohio State, 32-36; asst. exam, bd. exam, Chicago, 36-38; research assoc. psychol, 38-40; asst. chief, res. & test construct. sect, state tech. adv. serv, Soc. Security Bd, 40, chief, 40-44; chief soc. sci. & admin. test develop. unit, Civil Serv. Cmn, 44-47, chief test develop. unit, 48; PROF. psychol, North Carolina, 48-65, chmn. dept, 50-60; ED, HAWAII, 65- Consult, U.S. Vet. Admin, 54-60. Asst. managing ed, Psychometrika, 38-50, managing ed, 50-56. Fel. Psychol. Asn.(recording secy, 49-52); Psychomet. Soc.(pres, 49-50). Quantitative psychology; test theory; public personnel testing. Publ: Test construction; Statistics; Factor analysis of reasoning tests. Address: College of Education, University of Hawaii, 1776 University Ave, Honolulu, Hawaii 96822.

ADKINSON, DR. BURTON W, b. Everson, Wash, Mar. 5, 09; m. 42; c. 2. GEOGRAPHY. B.A, Washington (Seattle), 36, M.A, 39; Ph.D.(geog), Clark, 42. Teacher, jr. high sch, Wash, 29-39; acting instr. geog, Washington (Seattle), 42; regional res. asst, Off. Geogr, U.S. Dept. State, 42-43; res. assoc. & asst. dir, U.S. Bd. Geog. Names, 43-44; asst. chief map intel. sect, Off. Strategic Serv, 44-45; div. maps, Library of Cong, 45-47, chief, 47-48, asst. dir. reference dept, 48-49, dir, 49-57; HEAD OFF. SCI. INFO. SERV, NAT. SCI. FOUND, 57- AAAS; Asn. Am. Geog; Spec. Libraries Asn.(pres, 59-60); Document. Inst. Cartography; scientific information. Publ: Alpine glacial history and post-glacial adjustments of a section of the Cabinet Mountains, Montana; Facilities of the Library of Congress; their use in studying the history of nutrition; Current status of scientific information activities in the United States Government. Address: National Science Foundation, Washington, D.C. 20550.

ADLER, BURTON S, b. Boston, Mass, Apr. 29, 27; m. 56; c. 1. PSYCHOLOGY. B.S, Massachusetts, 49; A.M, Boston, 50. Chief psychologist, Medfield State Hosp, 50-52; staff psychologist, Jewish Voc. Serv, Mass, 52-56; VOC. PSYCHOLOGIST, M. BURTON PERSONNEL SERV, 56- U.S.N, 45-46; U.S.A.F.R, 50-67, Maj. Psychol. Asn; Personnel & Guid. Asn. Tests and measurement; industrial placement. Address: 120 Boylston St, Boston, Mass. 02116.

ADLER, PROF. DAN(IEL) L(ESLIE), b. Cleveland, Ohio, Nov. 29, 13; m. 39. PSYCHOLOGY. A.B, Western Reserve, 35; A.M, Iowa, 36, Ph.D.(child psychol), 39. Res. fel, inst. for psychoanal. & univ, Iowa, 39-41; instr. psychol, Rochester, 41-44; asst. psychologist, Manhattan Proj, 44-45; acting asst. prof. psychol. & counsr, testing bur, Oregon, 45-46; res. assoc, Stanford & Surg. Gen's. Off, 47; asst. prof. PSYCHOL, SAN FRANCISCO STATE COL, 47-50, assoc. prof, 51-58, PROF, 58- Sr. lectr, Melbourne, 50; Fulbright res. scholar, Australia, 57-58; vis. prof, Western Australia, Nedlands, 65-66. Bivin Found. award, 39. Fel. Psychol. Asn. Social psychology. Publ: Auth, Matriduxy in the Australian family, In: Australian society, 65 & co-auth, Some psychological aspects of immigrant assimilation, In: New faces, 66, F.W. Cheshire Pty. Ltd, Melbourne, Australia; auth, The contemporary Australian family, Human Rels, 66. Address: Dept. of Psychology, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

ADLER, PROF. FRANZ, b. Vienna, Austria, Sept. 23, 08; nat; div; c. 2. SOCIOLOGY. Dr.Jur, Vienna, 33; A.M, American Univ, 42; State Col. Wash, 41-43; fel. & scholar, Wisconsin, 43-47, Ph.D.(sociol), 53. Asst. prof. SOCIOL, Arkansas, 47-51, assoc. prof, 51-56, prof, 56-59; assoc. prof, CALIF. STATE COL. LOS ANGELES, 60-65, PROF, 65- Lectr, California, Los Angeles, 58-59, Davis, 59-60. Consult, Ford Found. exp. teacher ed, Arkansas, 57. U.S.A, 43-45, Sgt. Sociol. Asn. Sociol theory and methods; sociology of knowledge; family and industrial sociology. Publ: The value concept in sociology & The social thoughts of Jean Paul Sartre, Am. J. Sociol; The sociology of religion as part of a generalized sociology of creative behavior, Int. Yearbook Sociol. of Relig, 67. Address: Dept. of Sociology, California State College at Los Angeles, Los Angeles, Calif. 90032.

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ADLER, PROF. HELMUT E(RNEST), b. Nuremberg, Germany, Nov. 25, 20; nat; m. 43; c. 3. PSYCHOLOGY. B.S, Columbia, 48, A.M, 49, Ph.D.(psychol), 52. Instr. PSYCHOL, COL. ARTS & SCI, YESHIVA, 50-53, asst. prof, 53-57, assoc. prof, 57-64, PROF, 64- Mem. res. staff, div. govt. aided res, Columbia, 52-55, lectr, 55-60; res. fel, Am. Mus. Natural Hist, 55- U.S.A, 42-46. Psychol. Asn; Meteorol. Soc; Ecol. Soc; Animal Behavior Soc. Comparative psychology; sensory factors in animal orientation; history of psychophysics. Publ: Co-auth, Bird behavior, Sterling, 62; auth, Sensory factors in migration, Animal Behaviour, 63; translator, Elements of psychophysics, Holt, 66. Address: 162-14 86th Ave, Jamaica, N.Y. 11432.

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ADLER, DR. JOHN H(ANS), b. Tachov, Czech, Nov. 16, 12; nat; m. 39; c. 2. ECONOMICS. J.Dr, German Univ, Prague, 37; M.A, Yale, 40, Ph.D.(econ), 46. From chief for. exchange sect. to dep. chief finance div, U.S. Allied Cmn, Austria, 45-47; economist, Fed. Reserve Bank, N.Y, 47-50; Int. Bank Reconstruct. & Develop, 50-52, asst. to dir, econ. staff, 52-55; mem. staff, Econ. Develop. Inst, 55-57; econ. adv, Int. Bank Reconstruct. & Develop, 57-61; dir, Econ. Develop. Inst, 62-67; SR. ADV. ECON. DEPT, INT. BANK RECONSTRUCT. & DEVELOP, 67- Asst. chief & chief economist, gen. surv. mission, Nigeria, 53; lectr, sch. adv. int. studies, Hopkins, 57-; chief, Spec. Mission Chile, 61. Econ. Asn; Int. Inst. Pub. Finance. Economic development; international trade and payments; public finance. Publ: Co-auth, Public finance and economic development in Guatemala; The pattern of U.S. import trade since 1923; Public finance in a developing country, El Salvador, a case study. Address: 5620 Western Ave, Chevy Chase, Md. 20015.

ADLER, DR. KENNETH P(AUL), b. Karlsruhe, Germany, Sept. 20, 22; nat; m. 44; c. 4. POLITICAL SCIENCE, MASS COMMUNICATIONS. B.A, Syracuse, 48; M.A, Chicago, 50, Walgreen fel, 51, Hillman fel, 52, Ph.D.(polit. sci), 56. Instr. & exec. secy. cmt. commun, Chicago, 52-56, asst. prof. commun, 56-57; sr. res. officer, audience res. div, Can. Broadcasting Corp, 57-62; soc. sci. analyst, surv. res. div, U.S. INFO. AGENCY, 62, chief media res. div, 62-66, SR. REGIONAL RES. OFFICER, EAST ASIA, 66- Lectr, Carleton (Can), 61-62; American Univ, 65. U.S.A, 43-46. Polit. Sci. Asn; Am. Asn. Pub. Opinion Res; Am. Sociol. Asn; Asn. Ed. Journalism; Philippine Sociol. Soc; World Asn. Pub. Opinion Res. Role of public opinion in the political process; effects of public communications upon international relations. Publ: Mass media responsibility to political elites, J. Commun; Art films and eggheads, Studies Pub. Commun; co-auth, Interest and influence in foreign affairs, Pub. Opinion Quart. Address: American Embassy, U.S. Information Agency, Manila, Philippines.

ADLER, DR. LETA McKINNEY, b. Lincoln, Nebr, Mar. 17, 20; div; c. 2. SOCIOLOGY. B.A, California, Los Angeles, 42; univ. fel, State Col. Wash, 42, M.A, 46; univ. fel, Wisconsin, 43, Nat. Insts. Health fel, 56-58, Ph.D, 58. Soc. sci. analyst, res. br, info. & ed. div, Army Serv. Forces, War Dept, 44-45; res. consult, State Pub. Welfare Dept, Wis, 47; instr. sociol, exten. serv, Arkansas, 47-49, statist, inst. sci. & tech, 49-52; sch. nursing, California, Los Angeles, 58-59; with statist. res. bur, State Dept. Ment. Hyg, Calif, 59-60; asst. res. educationist, California, Los Angeles, 60-61; res. sociologist, SCH. MED, SOUTHERN CALIFORNIA, 61-62, asst. clin. prof. sociol, DEPT. PSYCHIAT, 62-65, adj. assoc. prof. SOCIOL. PSYCHIAT, 65-68, ASSOC. PROF, 68- Instr, Center Training Community Psychiat, 67; Nat. Inst. Ment. Health res. grants, co-prin. investr, 63, prin. investr, 67-68; sci. assoc, Am. Acad. Psychoanal. Res. consult, Portals House, 62-66; statist. consult, field studies br, div. air pollution, U.S. Pub. Health Serv, 65. Fel. Sociol. Asn; Statist. Asn. Sociology of mental health; research methods; educational sociology. Publ: Contrib, Mental health and mental disorder, Norton, 55;

co-auth, Foreward, In: Effective psychotherapy—the contribution of Hellmuth Kaiser, Free Press Glencoe, 65 & An instrument to measure skill in diagnostic interviewing, J. Med. Ed, 66. Address: 2265 Prosser Ave, Los Angeles, Calif. 90064.

ADLER, DR. NORMAN, b. New York, N.Y, Mar. 3, 33; m. 60; c. 1. ECONOMICS, STATISTICS. B.B.A, City Col. New York, 54; M.S, Wisconsin, 55, Ph.D, 58. Fiscal economist, U.S. Dept. Commerce, 58-59; statistician, audit div, INTERNAL REVENUE SERV, 59-61, SUPVRY. STATISTICIAN, STATIST. DIV, 61- Econ. Asn; Statist. Asn. Analysis of data reported on tax returns for use in measuring the operation of tax laws of the nation. Publ: Federal state cooperation in the administration of the individual income tax—the Wisconsin experience, 9/59 & Taxpayer compliance in reporting dividend income in Wisconsin, 3/60, Nat. Tax J: Taxpayer compliance in reporting interest income under the Wisconsin state individual income tax, J. Am. Statist. Asn, 6/63. Address: Statistics Division, Internal Revenue Service, 1111 Constitution Ave. N.W, Washington, D.C. 20224.

ADLERSTEIN, DR. ARTHUR MARK, b. New York, N.Y, May 20, 28; m. 56; c. 2. PSYCHOLOGY. B.A, Long Island, 52; M.A, Brooklyn Col, 54; Ph.D. (psychol), Princeton, 58. Instr. psychol, Brooklyn Col, 52-54; asst. in instr, Princeton, 54-56; intern, East. Pa. Psychiat. Inst, 56-57; res. assoc, Phila. Child Guid. Clin, 57-62, chief, Camden br, 62-63; dir. soc. res, N.J. Dept. Inst. & Agencies, 63-65; prof. psychol, Rutgers, 66-68; CHMN. SOC. SCI, STATE UNIV. N.Y. COL. OLD WESTBURY, 68- U.S. Pub. Health Serv. fel. psychother. with children, Phila. Child Guid. Clin, 57-62; res. consult, N.J. Neuro-psychiat. Inst, Robert Bruce Halfway House & Etontown Children's Psychiat. Center, 61- Exec. secy, State Ment. Health Planning Study Group, 66. U.S.A, 45-48, T/Sgt. Personal theory; clinical research; research design; curriculum. Publ: Co-auth, The Meaning of death, In: Death and religion, McGraw, 59; auth, The factors affecting maternal adaptations in cases of blood group incompatibility between parents and offspring, In: Kinder Pschiatrie and Prävention, Hans Huber, 64; co-auth, Efficiency concepts and methods applied to patient management, J. Am. Acad. Child Psychiat, 7/66. Address: 161 Laurel Rd, Princeton, N.J. 08540.

ADOLFSON, DEAN L(ORENTZ) H(ENNING), b. Chicago, Ill, Oct. 14, 09; m. 40; c. 1. PUBLIC ADMINISTRATION. B.A, Wabash Col, 33; Ph.D, Wisconsin, 42. Instr. polit. sci, EXTEN. DIV, WISCONSIN, 38-42, asst. prof, 42-44, dir. div, 44-49, dir. summer sessions, 54-64, DEAN, 59-, CHANCELLOR CENTER SYST, 64- Address: 5105 Odana Rd, Madison, Wis. 53711.

ADRIAN, PROF. CHARLES R(AYMOND), b. Portland, Ore, Mar. 12, 22; m. 46; c. 2. POLITICAL SCIENCE. A.B, Cornell Col, 47; A.M, Minnesota, 48, Ph.D, 50. Instr. govt, Wayne State, 49-53, asst. prof, 53-55; POLIT. SCI, Mich. State, 55-57, assoc. prof, 57-59, PROF, 59-66; CALIFORNIA, RIVERSIDE, 66- Ford Found. faculty fel, Copenhagen, 54-55; admin. asst. to governor, Mich, 56-57. U.S.A.A.F, 43-46. Polit. Sci. Asn; Soc. Pub. Admin. Metropolitan area government; nonpartisan elections; state and local government. Publ: State and local governments; Four cities; co-auth, The American political process, McGraw, 65. Address: 5421 Glenhaven Ave, Riverside, Calif. 92506.

ADRIAN, PROF. HENRY W(ALTER), b. Springfield, Mass, Aug. 12, 16; m. 47; c. 2. GOVERNMENT, HISTORY. B.A, Marietta Col, 41; LL.B, Columbia, 43, M.A, 48; N.Y. Univ, 50-53; Brooklyn, 51-53. Assoc. attorney, Gwinn & Pell, 43-45; staff attorney, grievance cmt, New York Bar Asn, 45-46; instr. hist. & govt, Long Island, 48-54; lectr. bus. law, Hunter Col, 54-56; instr. econ. Hartford, 56-57; from asst. prof. hist. & govt. & dir. center adv. econ. ed. to ASST. PROF. SOC. SCI, SOUTH. CONN. STATE COL, 57-Lectr, Connecticut, 58-59. Hist. Asn. Economic ideas of the Supreme Court; businessmen and politics in Connecticut; history of the New York Legal Aid Society. Address: Dept. of Social Sciences, Southern Connecticut State College, New Haven, Conn. 06515.

AFFINITO, DR. MONA GUSTAFSON, Bristol, Conn, Oct. 28, 29; m. 55; c. 2. PSYCHOLOGY. B.A, Conn. Col, 51; M.A, Boston, 52, Ph.D.(personality & soc. psychol), 64. Instr. PSYCHOL, Johnson Teachers Col, 52-53; Vermont, 53-55; asst, Boston, 55-57; instr, South. Conn. State Col, 58-59; asst. instr, divinity sch, Yale, 60-61; instr, SOUTH. CONN. STATE COL, 61-64, asst. prof, 64-66, ASSOC. PROF, 66- Psychol. Asn. Personality theory. Publ: Co-auth, Reference groups and loyalties in the out-patient department, Admin. Sci. Quart, 3/58. Address: Dept. of Psychology, Southern Connecticut State College, 501 Crescent St, New Haven, Conn. 06515.

AFFLECK, PROF. D(EAN) CRAIG, b. Hammond, Ind, Oct. 7, 28; m. 51; c. 2. PSYCHOLOGY. B.S, Northwestern, 50, M.A, 52, Ph.D, 54. Clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Chicago, Ill, 54-58; asst. prof. MED. PSYCHOL, COL. MED, NEBRASKA, 58-62, assoc. prof, 62-67, PROF, 67-, CHIEF PSYCHOLOGIST, ADULT SERV, NEBR. PSYCHIAT. INST, 58-, CHIEF PSYCHOL. DIV, 63-, ASST. DIR. RES, 66- Lectr, Northwestern, 54-57. Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn. Psychotherapy; psychodiagnostic evaluation. Publ: Co-auth, Use of the Rorschach test in the prediction of the abrupt terminator in individual psychotherapy, J. Consult. Psychol; Predictive judgements of therapists and duration of stay in psychotherapy, J. Clin. Psychol & Effects of isoxsuprine hydrochloride Vasodilan on chronic cerebral arteriosclerosis, J. Nervous Ment. Disease. Address: Nebraska Psychiatric Institute, 602 S. 44th Ave, Omaha, Nebr. 68134.

AFFOLDER, PROF. WILLIAM F(REDERICK), Indust. Rels, see 10th ed, Soc. & Behav. Vols.

AFRIAT, PROF. S(YDNEY) N(APHTALI), b. London, Eng, July 19, 25; m; c. 1. ECONOMICS, MATHEMATICS. M.A, Cambridge, 50; D. Phil, Oxford, 53. Jr. sci. officer, high speed sect, aerodyn. div, Nat. Phys. Lab, 45-46; sci. officer, math. group, Adm. Res. Lab, Royal Naval Sci. Serv, 49-50; mem. res. staff, dept. appl. econ, Cambridge, 53-56; res. fel. & lectr. math, Hebrew Univ, Israel, 56-58; res. assoc. econ, Princeton, 58-62; assoc. prof. econ. & lectr. math, Rice, 62-65; PROF. ECON, PURDUE, 65- Prin. investr, Nat. Sci. Found. Res. Proj, 63-, Nat. Sci. Found. vis. fel, Cowles Found, Yale, 64-65; chmn. econ. theory cmt, Purdue, 66- Economet. Soc; Math. Soc; Soc. Indust. & Appl. Math; Econ. Asn; fel. Cambridge Philos. Soc. Pure and applied mathematics, especially algebra; physics and mechanics; statistics; economics and operational analysis; matrix theory; mathematical economics and multivariate statistics. Publ: The equivalence in two dimensions of the strong and weak axioms as revealed preference, Metroeconomica, 65; The construction of utility functions from expenditure data, Int. Econ. Rev, 67; The cost of living index, In: Studies in mathematical economics in honor of Oskar Morgenstern, Princeton Univ, 67. Address: Dept. of Economics, Purdue University, Lafayette, Ind. 47907.

AFTANAS, DR. MARION STEVE, b. Winnipeg, Man, Dec. 23, 34; m. 62; c. 2. PSYCHOLOGY. B.A, Manitoba, 61, M.A, 63; Ph.D.(psychol), Alberta, 66. ASST. PROF. PSYCHOL, MANITOBA, 65- Nat. Res. Coun. Can. grant, 66-68. Am. Psychol. Asn; Can. Psychol. Asn. Effects of anchoring on psychophysical functions; development of a technique for assessing psychometric invariance; assessment of ontogenetic changes in intelligence. Publ: Co-auth, Cutaneous sensitivity after prolonged visual sensitivity, Science, 64, Cutaneous sensitivity of unilateral arm amputees, Can. J. Psychol, 64 & The autokinetic phenomenon: a critical review, Psychol. Bull, 66. Address: Dept. of Psychology, University of Manitoba, Winnipeg 19, Man, Can.

AFZAL, DR. MUHAMMAD, b. Lyallpur, W.Pakistan, Dec. 15, 33; m. 58; c. 1. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Panjab, Pakistan, 55, M.S, 57, dipl. statist, 59; Ph.D.(econ), Kansas State, 65. Asst. res. officer soc. sci, Panjab, Pakistan, 57-59; agr. adv. cooperatives, Govt. W.Pakistan, 59-62; res. asst. ECON, Kansas State, 62-65; CHMN. DEPT, BISHOP COL, 65- Invest. officer, Agr. Develop. Bank, 57-58. Econ. Asn; Agr. Econ. Asn. Banking; cooperatives. Publ: Co-auth, Extent of agricultural credit, Credit Rural & Cooperatives, 59; Financing the farms, a profitable business, Pakistan Rev, 60; auth, Development of inventory models, J. Farm Econ, 65. Address: Box 182, Bishop College, Dallas, Tex. 75241.

AGA-OGLU, KAMER, b. Azerbaijan, Caucasus, Oct. 15, 03; nat; m. 21; c. 1. CULTURAL ANTHROPOLOGY. A.B, Vienna, 27; A.M, Istanbul, 29; A.M, Michigan, 38. Mus. asst. classical archaeol, mus. archaeol, MICHIGAN, 38-42, asst. curator, DIV. ORIENT, MUS. ANTHROP, 45-51, assoc. curator, 51-56, CURATOR, 56-, ASSOC. PROF. HIST. OF ART, 64-, lectr. anthrop. 49-62, assoc. prof, 62-64. U.S. Army Training Prog, 43-44. Asn. Asian Studies; Oriental Ceramic Soc, Brit. Cultural history of Asia, especially Turkic peoples; ceramics of Far East, China and Indo-China. Publ: Late Ming and early Ch'ing porcelain fragments from archaeological sites in Florida, Fla. Anthropologist; Russian excavations of Chinese ceramics in Transcaucasia, Far East. Ceramic Bull; Ming porcelain from sites in the Philippines, Arch. Chinese Art Soc. Am, XVII. 63. Address: Museum of Anthropology, University of Michigan, Ann Arbor, Mich. 48104.

AGEE, MARVIN H, Indust. eng, Mat. sci, see 11th ed, Phys. & Biol. Vols.

AGER, DR. JOEL WHEELER, JR, b. Port Leyden, N.Y, Aug. 4, 28; m. 57; c. 3. PSYCHOLOGY. B.A, Colgate, 50; M.A, Syracuse, 57, Ph.D.(psychol), 61. Asst. prof. PSYCHOL, WAYNE STATE, 58-67. ASSOC. PROF, 67-U.S.A, 50-52. Psychol. Asn; Psychomet. Soc. Rank-order statistical techniques; cognitive processes; attitude measurement. Address: Dept. of Psychology, Wayne State University, Detroit, Mich. 48202.

AGGARWAL, DR. O(M) P(RAKASH), b. Meerut, India, Nov. 21, 19; m. 46; c. 3. MATHEMATICAL STATISTICS. B.A, Delhi, 39, M.A, 41, res. fel. Hindu Col, 41-42; Ph.D.(statist), Stanford, 53. Statist. asst. Indian Coun. Agr. Res, 43-44, statist. investr, 45, statistician, cropcutting, 45-49; asst, Iowa State Col, 49-51; Stanford, 51-52; asst. prof. math. statist, Washington (Seattle), 52-55; Purdue, 55-56, assoc. prof, 58; vis. assoc. prof, Alberta, 56-57; Saskatchewan, 57-58; statistician, Tech. Asst. Mission, Food & Agr. Orgn, UN, Chile, 58-60, Peru, 60-63; ASSOC. PROF. STATIST. IOWA STATE, 63- Inst. Math. Statist; Statist. Asn; Indian Soc. Agr. Statist. Mathematical theory of sampling; decision functions; nonparametric methods. Address: Dept. of Statistics, Iowa State University, Ames, Iowa 50010.

AGGARWAL, DR. PARTAP CHAND, b. Jaranwala, Punjab, India, Nov. 5, 32; m. 58; c. 2. ANTHROPOLOGY. B.A, Punjab, India, 52; fel, Hawaii, 64-65; Ph.D.(anthrop), Cornell, 66. ASST. PROF. ANTHROP, COLGATE, 66- Fel. Anthrop. Asn. Publ: A Muslim sub-caste of north India, Econ. & Polit. Weekly, Bombay, 66. Address: Dept. of Anthropology, Colgate University, Hamilton, N.Y. 13346.

AGGER, PROF. ROBERT E, b. U.S, May 30, 27; m. 49; c. 2. POLITICAL SCIENCE. B.A, Williams Col, 48; LL.B, Yale, 51; Soc. Sci. Res. Coun. fel. & Ph.D.(polit. sci), Oregon, 54. Instr. soc. sci. & econ, Quinnipac Col, 49-51; asst. prof. polit. sci, North Carolina, 53-58, res. assoc, inst. res. soc. sci, 55-58; PROF. POLIT. SCI, OREGON, 66-, DIR. BEHAV. SYSTS, INST. COMP. EXP. RES. BEHAV. SYSTS, 67- Fel, Center Adv. Study Behav. Sci, 54-55; Nat. Sci. Found. sr. fel, 65-66. U.S. Merchant Marine, 45-47, Ens. Political behavior; comparative politics; systematic theory. Publ: Co-auth, The rulers and the ruled, Wiley, 64; Power attributions in the local community, Soc. Forces. Address: Institute for Comparative Experimental Research on Behavioral Systems, University of Oregon, Eugene, Ore. 97401.

AGHAJANIAN, GEORGE K(EVORK), Neuropharmacol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

AGHASSI, DR. MARJORIE, b. Tulsa, Okla, June 26, 18; m. 43; c. 3. POLITICAL SCIENCE. B.A, Chicago, 42; M.A, Columbia, 58, N.Y. State Regents fel, 66-67, Ph.D.(polit. sci), 67. Duplication & manpower exam, U.S. Civil Serv. Cmn, 44-45; teacher, high sch, N.Y, 58-60; Masters Sch, Dobbs Ferry, N.Y, 62-63; instr. POLIT. SCI, Manhattanville Col, 63-66; ASST. PROF, HOFSTRA, 67- Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Address: 388 Langley Ave, West Hempstead, N.Y. 11552.

AGINSKY, DR. BURT BERNARD W, b. New York, N.Y, Feb. 10, 05; m. 29. ANTHROPOLOGY. B.S, N.Y. Univ, 31, M.A, 32; Soc. Sci. Res. Coun. fel, Columbia, 34, Ph.D.(anthrop), 35. Res. assoc. anthrop, California, Berkeley,

36; instr. & dir. soc. sci. field lab, N.Y. Univ, 38-41; prof. mil. sci. & tactics, Iowa, 43-46; assoc. prof. anthrop, Maxwell Sch. Citizenship, Syracuse, 47-48; assoc. prof. anthrop. & sociol, City Col. New York, 46-65, chmn. dept, 47-52; DIR. SOC. SCI, INST. WORLD UNDERSTANDING PEOPLES, CULTURES & LANG, 65- Rockfeller Found. Soc. Sci. Res. Coun. grant, 39; Wenner-Gren Found. field res. grant, 46-47, write-up & pub. grant, 47-50; grant, Res. Inst. study of man, lang. & culture of the dolphin, 64-65; Sperry Hutchinson lectr, Miami, 65. U.S.A, 42-46, 1st Lt. Fel. AAAS; Ethnol. Soc. (pres, 49); fel. Anthrop. Asn. Kinship; intercultural relations; methodology; lateralizations; Californian Indians. Publ: Kinship systems and the forms of marriage, Memoir Am. Anthrop. Asn, 35; This man-made world, Rinehart, 49; co-auth, Deep Valley, Stein & Day, 67. Address: 911 Park Ave, New York, N.Y. 10021.

AGINSKY, PROF. ETHEL G, b. Scranton, Pa, Sept. 24, 10; m. 29. ANTHROPOLOGY. B.A, N.Y. Univ, 32; M.A, Columbia, 33, Ph.D.(anthrop), 34. Res. assoc. ling, Columbia, 34-36; field res, 36-37; instr. sociol. anthrop, HUNTER COL, 39-47, asst. prof, 48-53, assoc. prof, 53-61, prof. ANTHROP, 61-66, EMER. PROF, 66-; ASSOC. DIR, SOC. SCI. LAB, N.Y. UNIV, 39-; ASSOC. DIR, INST. WORLD UNDERSTANDING PEOPLE, CULTURES & LANG, 65- Inst. Pac. Rels. fel, California, 39; Viking Fund grants, 46, 47. Civilian with Off. Strategic Servs. AAAS; Ethnol. Soc; Ling. Soc; Anthrop. Asn.(treas, 47-); Sociol. Asn. Acculturation; social anthropology. Publ: A grammar of the Mende language; Language and culture; co-auth, Deep valley, Stein & Day, 67. Address: Dept. of Anthropology, Hunter College, 695 Park Ave, New York, N.Y. 10021.

AGNELLO, DR. JOSEPH, b. Detroit, Mich, June 15, 32; m. 54; c. 3. PSYCHOLOGY, SPEECH. B.S, Western Michigan, 57, M.A, 59; Ph.D.(psychol, exp. phonetics), Ohio State, 63. Assoc. res. speech sci. & exp. phonetics, Ohio State, 59-63; asst. prof. speech & hearing sci. & lab. dir. acoustic phonetics, Temple, 63-66; Fulbright res. scholar exp. phonetics, Milan, Italy, 66-67; ASSOC. PROF. SPEECH COMMUN, STATE UNIV. N.Y. BUFFALO, 67-, univ. res. grant, 67-68. Nat. Inst. Ment. Health res. grant, 64-66; biomed. res. grant, U.S. Pub. Health Serv, 67-69. AAAS; Ling. Soc. Am; Acoustical Soc. Am. Experimental phonetics; comparative linquistics; psychophysics of speech and hearing; physiological psychology; stuttering behavior; statistics; dialects in the United States. Publ: Co-auth, The prediction of the effects of combined deterrents to intelligibility, J. Auditory Res, 64. Address: Room 15 B, Crosby Hall, Speech Communications Lab, State University of New York at Buffalo, Buffalo, N.Y. 14214.

AGNEW, DONALD B(URNS), b. Ogden, Ill, Aug. 10, 19; div; c. 2. ECONOMICS. B.S, Illinois, 41; cert, U.S. Dept. Agr. Grad. Sch, 56; American Univ, 55; Maryland, 57-62. Economist, field off, bur. land mgt, U.S. Dept. Interior, Wyo, 46, D.C, 46-48; ECONOMIST, prod. & mkt. admin, agr. mkt. serv, U.S. DEPT.AGR, 48-59, MKT. ECON. DIV, ECON. RES. SERV, 59- Dir. spec. survs, Econ. & Mkt. Survs, 52-57; agr. economist, Conn. Off, New York Milk Study, 58; consult. econ. of food irradiation, Atomic Energy Cmn. & food indust, 66- Cert. merit, U.S. Dept. Agr, 52. U.S.A, 41-46, Res, 46-49. Am. Agr. Econ. Asn; Int. Conf. Agr. Econ; Can. Agr. Econ. Soc. Cost-efficiency analysis in processing and marketing farm food products; analysis and forecasting of price levels and variability for agricultural products; analysis of agricultural price and income policy problems and proposals. Publ: Meatpacker cost studies: fresh beef, pork, delivery question, Econ. Res. Serv. Series, 62-67; Class III milk in the New York pool: economic structure of the manufactured dairy products industry, processors decisions in utilization. Address: Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20251.

AGNEW, DEAN DWIGHT L(UTHER), b. Grand Junction, Colo, Dec. 18, 11; m. 38; c. 1. SOCIAL SCIENCE. A.B, Park Col, 35; A.M, Iowa, 38, Ph.D, 47. Instr, Waukon Jr. Col, 38-42; asst. prof. soc. sci, STOUT STATE, 47-51, assoc. prof, 51-55, head dept, 51-65, prof, 55-65, DEAN SCH. LIBERAL STUDIES, 65- C.Eng, 43-46, Sgt. Hist. Asn. American history; railroads; lumbering. Address: 907 Oakwood Blvd, Menomonie, Wis. 54751.

AGNEW, DR. JOHN NEIL McKINNON, b. Weyburn, Sask, Apr. 4, 24; m. 50; c. 2. PSYCHOLOGY. B.A, Toronto, 47, M.A, 50, Ph.D.(psychol), 58. Chief res. psychologist, Sask. Dept. Pub. Health, 56-66; dir, Psychol. Res. Center, 60-66; PROF. PSYCHOL. & DIR. PSYCHOL. SERV, YORK, 66- Spec. lectr, Saskatchewan, 56-66; res. grants, Nat. Inst. Ment. Health, 60-65, Nat. Res. Coun. Can, 61-66, Can. Defence Res. Bd, 63-65 & Pub. Admin. Found. & Center Community Studies, 64-66. Can. Navy, 43-46, Lt. Can. Psychol. Asn; Am. Psychol. Asn. Behavior change; organizational change; research design. Publ: Co-auth, Research methods in social science, Prentice-Hall, 69, Absolute judgement of distance as a function of induced muscle tension, exposure time and feedback, J. Exp. Psychol, 71: 649-654 & Modification of an overlearned maladjusted response through a relearning program, Behav. Res. & Ther, 1: 197-203. Address: Behavioral Science Bldg, York University, Toronto 12, Ont, Can.

AGNEW, DR. ROBERT J(AMES), b. Joliet, Ill, Apr. 3, 17; m. 44; c. 2. INDUSTRIAL ECONOMICS. B.A, Pittsburgh, 48, M.A, 49; Ph.D.(indust. econ), Mass. Inst. Tech, 53. Inspection foreman, Youngstown Sheet & Tube Co, 39-42, 45-46; instr. econ. & indust, Pittsburgh, 48-50; asst. indust. rels, Mass. Inst. Tech, 51-52; ASSOC. PROF. BUS. ADMIN, PITTSBURGH, 52- Consult, Indust. Col. Armed Forces, 66- U.S.N.R, 42-45. Econ. Asn; Sociol. Asn; Indust. Rels. Res. Asn. Human relations in industry; organizational administration; management training; personnel administration. Address: School of Business Administration, University of Pittsburgh, Pittsburgh, Pa. 15213.

AGOGINO, DR. GEORGE A, b. West Palm Beach, Fla, Nov. 18, 20; m. 51; c. 2. ANTHROPOLOGY. B.A, New Mexico, 48, M.A, 50; West. Found. grant, Syracuse, 54, D.S.S, 58; hon. Dr, Rome Inst. Arts & Sci, Italy, 60; Wenner-Gren Found. fel, Harvard, 61-62. Asst. prof. soc. sci, Nasson Col, 54-56; instr. anthrop, Syracuse, 56-58; asst. prof, South Dakota, 58-59; Wyoming, 59-61; mem. staff, Baylor, 62-63; DIR. PALEO-INDIAN INST. & ASSOC. PROF. ANTHROP, EASTERN NEW MEXICO, 63-, CHMN. DEPT, 67- Res. grants, Wenner-Gren Found. Anthrop, 58-61 & 63-66, Am. Acad. Arts & Sci, 59 & 60, Am. Philos. Soc, 59-63 & 65, Nat. Geog. Soc, 59-66, Milton Fund, 61 & Sigma Xi, 62, 64 & 66. Hon. lectr, South Dakota, 59; lectr, Boston Col, 61-; lectr, law col, Syracuse, summer 58. Dir, Gen. Anthrop. Mus. & Miles Anthrop. Collection, N.Mex, 66-67; State Blackwater Draw Paleo Indian Mus, 67- Police consult, Maine, 54-56 & N.Y, 56-58; adv, Alcopulco Int. Inst. Anthrop, 67- Ed, W.H. Over Mus. News, 58-59. Mem. spec. cmt. hairy bipeds, Int. Inst. Sociol, 62- Sig.C, U.S.A, 42-46. Fel. AAAS; Soc. Clin. Hypnosis; Soc. Am. Archaeol; Asn. Phys. Anthrop; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; fel. Inst. Interamericano. Archaeology; ethnology and physical anthropology; early man; use of hypnosis in social science and anthropological research; social psychological aspects of witchcraft and shamanism. Publ: Co-auth, Geological significance of a new radiocarbon date from the Lindenmeier site, Denver Mus. Natural Hist, 60; auth, A new point type from Hell Gap Valley, eastern Wyoming, Am. Antiq, 61; co-auth, Early man in the New World, Science, 64. Address: Dept. of Anthropology, Box 2154, Eastern New Mexico University, Portales, N.Mex. 88130.

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AGUIRRE, DR. FABIOLA, b. Manizales, Colombia, Dec. 30, 18; U.S. citizen; div; c. 1. SOCIOLOGY. Dr. Law & Soc. Sci, Univ. Externado Colombia, 44; Psychologist, Nat. Univ. Colombia, 52; summer, Boston, 55; Washington (Seattle), 56. Private practice law, 45-48; judge munic. law, 47-48; sub-dir. off. pub, Controller Gen, Bogotá, 49; judge pub. law, 50-53; asst. fel, grad. sch. soc. work & dept. romance lang, Washington (Seattle), 56-57; ASST. PROF. SOCIOL, SOUTH. COLO. STATE COL, 57- Sociol. Asn. Sociology of religion and international law. Publ: Lineamientos filosoficos del derecho internacional, Imprenta del Departamento de Santander, Colombia, 46; Dimension de la angustia, Antares, Colombia, 52. Address: Dept. of Sociology, Southern Colorado State College, Pueblo, Colo. 81005.

AHEARN, DR. DANIEL S(TEPHEN), b. New York, N.Y, Oct. 18, 25. ECONOMICS. A.B, Columbia, 49, Evans traveling fel, 49-50, Kazanjian scholar, 50-51, Ph.D, 61. Res. economist, First Nat. City Bank, New York, 51-59, assoc. economist, 59-61; from financial economist to V.PRES, RES. DEPT. INVEST. CMN, WELLINGTON MGT. CO, 61- U.S.A, 44-46. Finance Asn; Asn. Bus. Econ; Statist. Asn. Monetary economics; investment; behavior of financial institutions. Publ: Aspects of Federal Reserve policy, 1951-1959: facts and controversies. Address: Wellington Management Co, 1630 Locust St, Philadelphia, Pa. 19103.

AHLBERG, DR. CLARK D(AVID), b. Wichita, Kans, May 23, 18; m. 41; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Wichita, 39; Maxwell fel, Syracuse, 40-42; M.A, 42, Ph.D.(polit. sci), 51. Mem. staff, admin. mgt. div, Vet. Admin, 46-47; res. staff, sci. res. bd, Exec. Off. of President, 47; personnel res, Nat. Bur. Standards, 48; res. dir, Wash. Res. Off, Syracuse Univ, 39-51, asst. dean, col. eng, 51-54; dep. dir, State Budget Div, N.Y, 54-56; V.PRES. ADMIN. & RES, SYRACUSE, 59- Consult, N.Y. State Civil Serv. Cmn. & N.Y. State Dept. Audit & Control, 59; U.S. Pub. Health Serv, 60. Mem, N.Y. State Adv. Coun. for Adv. Indust. Res. & Develop, 60; health sci. adv. awards, Nat. Insts. Health, 66. U.S.A, 44-46, Lt. Polit. Sci. Asn; Soc. Pub. Admin; Soc. Eng. Ed; Inst. Indust. Eng. Public budgeting including fiscal policy, organizational and administrative theory; public personnel administration. Publ: Co-auth, Attitudes of scientists and engineers toward their government employment & Some administrative problems in governmental research; auth, Administration for research, In: Science and public policy. Address: Upper Lincklaen St, Cazenovia, N.Y. 13035.

AHLEM, DR. LLOYD H, b. Moose Lake, Minn, Nov. 7, 29; m. 52; c. 5. PSYCHOLOGY. A.B, San Jose State Col, 52, M.A, 55; Ed.D.(ed. psychol), Southern California, 62. Teacher, Am. Union Sch, Calif, 53-54; psychologist, Baldwin Park Schs, Calif, 55-58, dir. psychol. serv, 58-62; ASSOC. PROF. PSYCHOL, STANISLAUS STATE COL, 62-, CHMN. DEPT, 67-, chmn. div. soc. sci, 66-67. Lectr, Los Angeles State Col, 57-60; Southern California, 58-62. Consult, Faith Home Teen Ranch, Calif, 62-; Merced County Schs, spring 62; Stanislaus County Schs, spring 65. Mem. Bd. Dirs, N. Park Col, 66-71. Psychol. Asn. Publ: Experiment with gifted children, Newsletter, Calif. State Dept. Ed, spring 58. Address: Dept. of Psychology, Stanislaus State College, Turlock, Calif. 95380.

AHLMANN, ELMER F(REDERIC), b. Wis, Feb. 25, 22. GEOGRAPHY. B.S, Wisconsin, 47, M.S, 48; Mexico City Col; Northwestern. INSTR. GEOG, Wisconsin, 48-53, 55-61; Maryland, 53-54; Mexico City Col, 54-55; MILWAUKEE INST. TECH, 61- Asn. Am. Geog; Am. Geog. Soc; Latin Am. Studies Asn; Nat. Coun. Geog. Ed. Latin America; economic geography; political geography. Address: 2324 W. Wisconsin Ave, Milwaukee, Wis. 53233.

AHMAD, DR. S(YED) SHAMIMUDDIN, b. Bahawalpur, W. Pakistan, Aug. 17, 34; m. 53; c. 1. PSYCHOLOGY. B.A, Karachi, 58, fel, 59-60, M.A, 60; Ph.D.(psychol), Chicago, 66. Lectr. PSYCHOL, Sind, Pakistan, 60-61; resident lectr, INDIANA, NORTHWEST CAMPUS, 65-66, ASST. PROF, 66- AAAS; Psychol. Asn. Animal behavior; comparative psychology; aggressive behavior in animals; aversively-motivated behavior; cognitive development; instinctive behavior. Address: Dept. of Psychology, Indiana University, Northwest Campus, 3400 Broadway, Gary, Ind. 46408.

AHMANN, PROF. J(OHN) STANLEY, b. Struble, Iowa, Oct. 17, 21; m. 48; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, Trinity Col.(Iowa), 42; B.S, Iowa State, 47, M.S, 49, Ph.D.(psychol), 51. Asst. prof. ed. psychol, Cornell, 51-54, assoc. prof, 54-58, prof, 58-60; PROF. PSYCHOL, COLORADO STATE, 60-, ACAD. V.PRES, 64-, chief ed. res. & serv. center, 60-61, asst. to pres, 61-62, head dept. psychol, 62-64. U.S.N, 43-46. AAAS; Ed. Res. Asn; Psychol. Asn; Statist. Asn; Coun. Measurement in Ed. Psychometrics; learning; institutional research. Publ: Co-auth, Statistical methods in educational and

psychological research; Evaluating pupil growth; auth, Testing student achievements and aptitudes. Address: Administration Bldg, Colorado State University, Ft. Collins, Colo. 80521.

AHNERT, PROF. FRANK O(SWALD), b. Wittgensdorf, Germany, Dec. 12, 27; m. 54; c. 2. GEOGRAPHY. Dr.Phil, Heidelberg, 53. German Res. Asn-Nat. Res. Coun. res. fel. GEOG, MARYLAND, 54-56, asst. prof, 56-61, assoc. prof, 61-66, PROF, 66- Summer consult, U.S. Army Transportation Corps, 59-60. Spec. ed, Crowell-Collier, N.Y, 62- Cor. mem. cmn. slope develop, Int. Geog. Union, 64- Fel. Geog. Soc; Asn. Am. Geog. Geomorphology, especially evolution of cuesta landscapes under different climates; estuarine meanders; physical geography of Greenland; methodology of physical and general geography; slope development. Publ: The role of the equilibrium concept in the interpretation of landforms of fluvial erosion and deposition, In: L'Evolution des Versants, pub, Univ. Liège, 67; Estuarine meanders in the Chesapeake Bay area, Geog. Rev; Influence of Pleistocene climates upon the morphology of cuesta scarps on the Colorado Plateau, Ann. Asn. Am. Geog. Address: Dept. of Geography, University of Maryland, College Park, Md. 20742.

AHRENS, DR. CURTIS LaVERNE, b. Great Bend, Kans, Oct. 23, 28; m. 55; c. 3. AGRICULTURAL ECONOMICS. B.S, Kansas State, 53, M.S, 58; Ph.D. (agr. econ), Illinois, 62. Instr. agr. econ, Kansas State, 55-58; AGR. ECONOMIST, agr. econ. br, TENN. VALLEY AUTHORITY, 62-67, AGR. RESOURCE DEVELOP. BR, 67- U.S.A, 53-55. Econ. Asn; Agr. Econ. Asn. Economic development; farm management; production economics. Publ: Co-auth, Choosing the most profitable fertilizer program, Univ. Illinois, 62; auth, An agricultural resource summary for the Upper Duck River Area, 65 & The potential for soybean production in the Tennessee Valley, 67, Tenn. Valley Authority. Address: Agricultural Resource Development Branch, Tennessee Valley Authority, C-24 Administration Bldg, Muscle Shoals, Ala. 35660.

AHUMADA, DR. A(L), JR, b. Los Angeles, Calif, Jan. 12, 40; m. 60; c. 2. PSYCHOLOGY. B.S, Stanford, 61; Nat. Sci. Found. fel, California, Los Angeles, 63-67, M.A, 66, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, CALIFORNIA, IRVINE, 67- Assoc. mem, Acoustical Soc. Mathematical learning models; physiological psychology; psychoacoustics; psychophysics. Publ: Co-auth, An improved procedure for minimum residual factor analysis, Psychol. Reports, 64 & Comparisons of some learning models for response bias in signal detection, Perception Psychophys, 68. Address: Dept. of Psychology, University of California, Irvine, Calif. 92664.

AIDENOFF, ABRAHAM, b. Cleveland, Ohio, June 14, 13; m. 45. ECONOMICS, STATISTICS. B.A, Chicago, 34; George Washington, 48-49. Casework supvr, Pub. Welfare Agency, Ill, 38-40; chief statistician, Off. Provost Marshal Gen, U.S. Army, 43-44; chief res. & statist, State Div. Placement & Unemploy. Compensation, 44-46; chief statistician, UNRRA, China Mission, 46-47; economist, U.S. Bur. Census, 47-49; chief statist. indust. & nat. acct, STATIST. OFF, UN, 49-63, ASST. DIR, 63- Statist. consult, govt. Burma, Thailand, Pakistan, Colombia & Peru, 49-57. Mem. conf. res. income & wealth, Nat. Bur. Econ. Res. U.S.A, 42-43. Econ. Asn; Statist. Asn; Economet. Soc; Acad. Polit. & Soc. Sci; Int. Asn. Res. Income & Wealth. Concepts, methodology, organization, compilation and collection of statistics; national accounting production prices and employment and financial data; analysis, planning and programming of economic development and growth; labor economics and statistics. Publ: Growth of world industry, 1938-1961, Vol. I, 63, Vol. II, 65, UN; Survey of second benefit year, adequacy of duration of benefits; Basic statistical series for use in economic and social development. Address: 17 W. 82nd St, New York, N.Y. 10024.

AIKEN, DR. E(DWIN) G(ARY), b. San Diego, Calif, Dec. 26, 28; m. 54. PSYCHOLOGY. B.A, San Diego State Col, 50; U.S. Pub. Health Serv. fel, 52-53, 54; Ph.D, Illinois, 54. Asst. psychol, Illinois, 53-54; bibliog. investr, U.S. Naval Electronics Lab, Calif, 54-55; lectr. psychol, Louisville, 55-57; res. psychologist, Gen. Dynamics/Convair, 57-59; asst. prof. psychol, California, Western, 59-62; San Diego State Col, 62-65; RES. PSYCHOLOGIST, U.S. NAVY TRAINING RES. LAB, 65- U.S.A, 55-57, Lt. Psychol. Asn. Motivation; human learning; fatigue; perception; signal detection. Publ: Co-auth, Continuous and fixed ration reinforcement effects in extinction one day and three weeks after acquisition, Psychonomic Sci, 65; Memory for the pitch of a tone, Perception and Psychophys, 66; Response prompting and response confirmation: a review of recent literature, Psychol. Bull, (in press). Address: 3669 Lloyd Terr, San Diego, Calif. 92117.

AIKEN, JOHN H(OWARD), b. Washington, D.C, Sept. 21, 18; m. 53. ECONOMICS. B.C.S, Columbia, 39; A.B, George Washington, 48; Geneva; American Univ. Mem, Nat. Asn. R.R. & Utilities Cmnrs, 42-43; res. dir. & assoc. ed, Mechanization, Inc, 49-55; mkt. adminstr, domestic distrib. dept, U.S. Chamber Commerce, 55-57; exec. secy, adminstr. ins. trust fund & ed. & bus. mgr. mag, Nat. Oil Jobbers Coun, 57-61; dir. div. fed. rel, Am. Retail Fedn, 62-64; pub. dir, Nat. Concrete Masonry Asn, 64-66; EXEC. DIR, FED. STATIST. USERS' CONF, 66- U.S.A, 43-45. Econ. Asn; Statist. Asn; Mkt. Asn. Marketing and distribution. Address: Federal Statistics Users' Conference, 1523 L St. N.W, Washington, D.C. 20005.

AIKEN, PROF. LEWIS ROSCOE, JR, b. Bradenton, Fla, Apr. 14, 31; m. 56; c. 2. PSYCHOLOGY. B.S, Fla. State, 55, M.A, 56; fel, Emory, 56-57; Ph.D, North Carolina, 60. Assoc. prof. psychol, Atlantic Christian Col, 58-60; from lectr. to assoc. prof. PSYCHOL, North Carolina, Greensboro, 60-65; Trinity (Tex), 65-66; DANA PROF. & CHMN. DEPT, GUILFORD COL, 66- Nat. Acad. Sci-Nat. Res. Coun. resident res. assoc, Navy Electronics Lab, 63-64. U.S.M.C, 51-54, Sgt. AAAS; Psychol. Asn; Coun. Measurement in Ed. Educational and psychological measurement. Publ: Co-auth, The effect of attitudes on performance in mathematics, J. Ed. Psychol, 61; auth, The prediction of academic success and early attrition by means of a multiple-choice biographical inventory, Am. Ed. Res. J, 64; A review of research on the Welsh figure preference test, Richardson Found, 67. Address: Dept. of Psychology, Guilford College, Greensboro, N.C. 27410.

AIKEN, DR. MICHAEL THOMAS, b. El Dorado, Ark, Aug. 20, 32. SOCIOLOGY. B[illegible] Mississippi, 54; M.A, Michigan, 55, Ph.D.(sociol), 64. Asst. prof. SOCIOL, WISCONSIN, 63-67, ASSOC. PROF, 67- Vis. assoc. prof, Columbia, 67-68. Mil. Intel, U.S.A, 56-59, Sgt. Sociol. Asn. Complex organizations; community organization. Publ: Co-auth, Economic failure, alienation and extremism, Univ. Michigan, 67; Organizational alienation: a comparative analysis, Am. Sociol. Rev, 66; Program change and other organizational properties, Am. J. Sociol, 67. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

AIKENS, DR. CLYDE MELVIN, b. Ogden, Utah, July 13, 38; m. 63; c. 2. ANTHROPOLOGY. B.A, Utah, 60; M.A, Chicago, 62, Ph.D.(anthrop), 66. Staff archaeologist, Utah, 62-63, curator, Mus. Anthrop, 63-66; ASST. PROF, ANTHROP, Nevada, 66-68; OREGON, 68- U.S.A.R, 56-64. Fel. Anthrop. Asn; Soc. Am. Archaeol. Archaeological research in the Great Basin and the Southwest. Publ: Excavations in Southwest Utah, 65 & Fremont-promontory-plains relationships, 66, Univ. Utah Anthrop. Papers; Plains relationships of the Fremont Culture: a hypothesis, Am. Antiq, 67. Address: Dept. of Anthropology, University of Oregon, Eugene, Ore. 97403.

AIKIN, PROF. CHARLES, b. Bellefontaine, Ohio, Aug. 27, 01; m. 28. POLITICAL SCIENCE. A.B, Muskingum Col, 24; LL.B, Ohio State, 27; George Eastman fel, Brookings Grad. Sch, 27-29, Ph.D.(polit. sci), 30. From instr. to PROF. POLIT. SCI, CALIFORNIA, BERKELEY, 29-, COORDINATOR, UNIVS. CALIFORNIA-BOLOGNA PROG. PUB. ADMIN, 58-, asst. dean, col. letters & sci, 40-41, 49-55, assoc. dean, 55-56, chmn. dept. polit. sci, 56-62. Res. asst. Calif. Constitutional Cmn, 30; U.S. Dept. State grant, conf. & lectr, Italy & Germany, 65. Price exec, Off. Price Admin, Calif, 42-45; asst. to Dean Acheson, Hoover Cmn, 48-49; specialist local govt, U.S. Dept. State, Germany, 50; Fed. Repub. Germany grant, W.German Univs, 54; dir, Harris Votomatic, Inc, 64-67. Consult, Govt. Affairs Inst, Wash, D.C, 51-58. Knight of the Order of Merit, Govt. Italy. Polit. Sci. Asn.(v.pres, 52); Econ. Asn; Soc. Pub. Admin; Royal Inst. Pub. Admin; Int. Inst. Admin. Sci; Int. Polit. Sci. Asn; Int. Law Asn. Publ: National labor relations board cases; The Negro votes; The structure of power in federal nations, Pub. Policy, 65. Address: Dept. of Political Science, University of California, Berkeley, Calif. 94708.

AINSWORTH, DR. ARTHUR DAVID, b. Penn Yan, N.Y, May 13, 26. POLITICAL SCIENCE. B.A, State Univ. N.Y. Albany, 47; M.A, Cornell, 48; Chicago, 51-52; Ford Found. grant, Asian Studies Seminar, 63-64; D.Univ.(polit. sci), Lausanne, 66. Instr. POLIT. SCI, MARYVILLE COL, 48-51 & 54-55, asst. prof, 55-61, ASSOC. PROF, 61-, CHMN. DEPT, 62- U.S.A, 53-54. Asn. Asian Studies; Polit. Sci. Asn; Hansard Soc. East Asian studies; Swiss history and government, especially church-state relations. Publ: Church-state relations in the city and canton of Geneva, Stein Printing Co, 65. Address: 116 Indiana Ave, Maryville, Tenn. 37801.

AINSWORTH, PROF. KENNETH G(EORGE), b. Shawano, Wis, July 13, 23; m. 50; c. 3. ECONOMICS. B.S, Wisconsin, 48, M.S, 49; Ph.D, Brown, 57. Instr. ECON, Brown, 50-53; Bowdoin Col, 53-57; asst. prof, ALLEGHENY COL, 57-67, PROF. & CHMN. DEPT, 67- Economist, judiciary cmt, U.S. House Reps, 61-62. Tax consult, New York, 66. U.S.A.A.F, 43-46. Econ. Asn. Federal and state finance. Address: 306 Meadow St, Meadville, Pa. 16335.

AINSWORTH, PROF. LABAN LINTON, JR, b. Waco, Tex, Jan. 3, 25; m. 51; c. 3. PSYCHOLOGY. B.A, Southwestern (Tex), 50; M.A, Texas, 53, Ph.D, 57. Res. assoc, HumRRO, George Washington, 56-57, res. scientist, 57-58, task leader, 58; from instr. to assoc. prof. psychol. & sociol, chmn. dept. & dir. guid, Del Mar Col, 58-61; assoc. prof. psychol, Sam Houston State Teachers Col, 61-67; SR. SCIENTIST, HUMRRO, GEORGE WASHINGTON, 67- U.S.M.C, 42-45. AAAS; Psychol. Asn. Address: HumRRO, Division 2, Ft. Knox, Ky. 40121.

AINSWORTH, DR. L(EONARD) H(ERBERT), Psychol, see 10th ed, Soc. & Behav. Vols.

AINSWORTH, PROF. MARY D(INSMORE) SALTER, b. Glendale, Ohio, Dec. 1, 13; m. 50. PSYCHOLOGY. B.A, Toronto, 35, M.A, 36, Ph.D.(psychol), 39. Asst. psychol, Toronto, 35-38, instr, 38-41, Dunlap Mem. fel, 39-42, lectr, 41-42, asst. prof, 46-50; supt. women's rehab, Dom. Dept. Vet. Affairs, Ottawa, 45-46; sr. res. psychologist, Tavistock Clin, London, Eng, 50-54; sr. res. fel, E.African Inst. Soc. Res, Makerere Univ. Col, Uganda, 54-55; lectr. PSYCHOL, HOPKINS, 56-59, assoc. prof, 59-61, PROF, 61- Center for Adv. Study Behav. Sci. fel, 67-68. Asst. adv, Dom. Dept. Vet. Affairs, Ottawa, 46-50; psychologist, Sheppard & Enoch Pratt Hosp, 56-61. Can. W.A.C, 42-45. Psychol. Asn; Soc. Proj. Tech; Soc. Res. Child Develop; Brit. Psychol. Soc. Developmental and clinical psychology; infancy; personality development; development of attachment. Publ: Developments in the Rorschach technique; Research strategy in the study of mother-child separation; Infancy in Uganda, Johns Hopkins, 67. Address: Dept. of Psychology, Johns Hopkins University, Baltimore, Md. 21218.

AIRD, DR. JOHN S(HIELDS), b. Detroit, Mich, Nov. 10, 19; m. 47; c. 3. SOCIOLOGY, DEMOGRAPHY. B.A, Oberlin Col, 46; M.A, Harvard, 48; M.A, Michigan, 51, Ph.D, 57. Asst. prof. sociol, UNESCO teaching team, Dacca, E.Pakistan, 52-53; instr. sociol, Miami (Ohio), 54-56; asst. prof, Vanderbilt, 56-57; SUPRV. STATISTICIAN, FOR. DEMOG. ANAL. DIV, U.S. BUR. CENSUS, WASH, D.C, 57- U.S.A, 41-45, 1st Lt. Pop. Asn. Fertility and social structure in East Pakistan; population development and problems in Communist Asia. Publ: Size, composition and growth of the population of Mainland China, 61; Population growth and distribution in Mainland China, Joint Econ. Cmt, 67; Population growth in Mainland China, In: Economic trends in Communist China, Aldine, 68. Address: Foreign Demographic Analysis Division, U.S. Bureau of the Census, 2400 M St, N.W, Washington, D.C. 20230.

AISENBERG, DR. RUTH BRYNA, b. Rochester, N.Y, Mar. 26, 29; m. 56; c. 2. PSYCHOLOGY. A.B, Rochester, 51; A.M, Boston, 52, Ph.D, 57. Asst. psychol, eve. sch, Rochester, 50-51; trainee, Vet. Admin. Hosp, Bedford, Mass, 53-55, res. asst, 60; trainee, Vet. Admin. Hosp, Boston, 55-56, Brockton, 56-57, staff psychologist, 57-58; PSYCHOLOGIST, Milla Alihan & Assocs,

167978

59-60; CUSHING HOSP, FRAMINGHAM, 62- Res. asst, sch. theol, Boston, 61- Psychol. Asn. Behavior of neuropsychiatrics, especially geriatric patients; chemotherapy. Address: 36 Bradford Rd, Natick, Mass. 01760.

AITA, DR. JOHN ANDREW, Neurol, Psychiat, see 11th ed, Phys. & Biol. Vols.

AITCHISON, DR. BEATRICE, b. Portland, Ore, July 18, 08. ECONOMICS. A.B, Goucher Col, 28; scholar, Hopkins, 29-32, A.M, 31, Ph.D.(math), 33; M.A, Oregon, 37. Acting assoc. prof. math, Richmond, 33-34; lectr. statist, American Univ, 34-39, 42-44; instr. econ, Oregon, 39-41; transport economist, Interstate Commerce Cmn, 38-51; dir, transport econ. div, off. transportation, U.S. Dept. Commerce, 51-53; DIR. TRANSPORTATION RATES & ECON, BUR. TRANSPORTATION, U.S. POST OFF. DEPT, 53- Lectr, U.S. Army Transportation Sch, 59-63; consult. to dir. mil. traffic serv, Off. Secy. Defense, 50-53. Fed. Woman's award, 61. Fel. AAAS; Soc. Traffic & Transportation; Econ. Asn; fel. Statist. Asn. Statistical and economic aspects of transportation. Address: 1929 S St. N.W, Washington, D.C. 20009.

AITCHISON, PROF. J(AMES) H(ERMISTON), b. Innerleithen, Peeblesshire, Scotland, Jan. 22, 08. POLITICAL SCIENCE. B.A, Saskatchewan, 28, B.Ed, 30; B.Sc, London, 35; Ph.D, Toronto, 53. Lectr, Brandon Col, 35-38; McMaster, 39-41; assoc. prof, Victoria Col, 46-48; from prof. to ERIC DENNIS MEM. PROF. GOVT. & POLIT. SCI. & HEAD DEPT, DALHOUSIE, 49- Am. Polit. Sci. Asn; Can. Polit. Sci. Asn; Can. Hist. Asn. History of local government in Canada. Address: Dept. of Government & Political Science, Dalhousie University, Halifax, N.S, Can.

AITKEN, PROF. HUGH G(EORGE) J(EFFREY), b. Deal, Kent, Eng, Oct. 12, 22; m. 55. ECONOMICS. M.A, St. Andrews, 47; M.A.(econ), Toronto, 48; Ph.D.(econ), Harvard, 51; hon. M.A, Amherst Col, 66. Res. fel. entrepreneurial hist, Harvard, 51-55; instr. econ, California, Riverside, 55-60, prof. econ. & chmn. div. soc. sci, 60-65; PROF. ECON. AMHERST COL, 65- Nat. Sci. Found. sr. fel, 63-64. Ed. J. Econ. Hist, 66- R.A.F, 42-46. Econ. Asn; Econ. Hist. Asn; Can. Polit. Sci. Asn. Economic history; industrial organization. Publ: Taylorism at Watertown Arsenal; American capital and Canadian resources; Explorations in enterprise, Harvard, 65. Address: Dept. of Economics, Amherst College, Amherst, Mass. 01002.

AIVAZIAN, DR. GARABED HAGPOP, b. Turkey, Dec. 11, 12; U.S. citizen; m. 39; c. 2. PSYCHIATRY. M.D, American Univ. Beirut, 35. Intern internal med, American Univ. Beirut Hosp, 35-37; res. PSYCHIAT, Am. Univ. Beirut & Lebanon Hosp. Ment. & Nerv. Disorders, 38-41; clin. asst, American Univ. Beirut, 41-52, clin. asst. prof, 52-54; asst. prof, COL. MED, TENNESSEE, 54-56, assoc. prof, 56-62, PROF, 62-, DIR. RESIDENCY TRAINING PROG, 61-, CHMN. DEPT. PSYCHIAT, 64-, acting chmn, 63-64. Rockefeller Found. fel. psychiat, col. med, Tennessee, Payne Whitney Clin, med. col. Cornell, Univs. Cincinnati & Louisville & N.Y. Univ, 47-48. Consult, American Univ. Beirut Hosp, 41-54; John Gaston Hosp, Memphis, Tenn, 55-; Gailor Ment. Health Center, 56-; Tenn. Psychiat. Hosp. & Inst, 62-; Baptist Mem. Hosp, 63-; William F. Bowld Hosp, 65-; Vet. Admin. Hosp, 67- AAAS; Am. Med. Asn; Psychiat. Asn. Medical education and psychopharmacotherapy; clinical evaluation of psychotropic drugs. Publ: Co-auth, Ceruloplasmine reaction in mental disorders, Am. Med. Asn. Arch. Gen. Psychiat, 1/60; auth, Amitriptyline in the treatment of depressive states, 7/62 & Clinical evaluation of diazepam, 8/64, Diseases Nerv. Syst. Address: Dept. of Psychiatry, University of Tennessee, 42 N. Dunlap St, Memphis, Tenn. 38103.

AKERS, PROF. DEE ASHLEY, b. Lebanon, Ind, May 10, 22; m. 46. POLITICAL SCIENCE, LAW. A.B, Kentucky, 48, LL.B, 50, Haggin fel, 51, Ph.D. (regulatory admin), 62. Asst. reviser, statute revision cmn, Commonwealth Ky, 52-54, regulations compiler, 54-56, reviser statutes, legis. res. cmn, 56-60, coordinator criminal procedure, 58-60; attorney at law, 60-62; prof. govt, Morehead State, 62-65, dir. pub. personnel, 63-65; PROF. LAW, LOUISVILLE & DIR. LOCAL GOVT. LAW CENTER, 65- Vis. prof, law sch, Kentucky, 63. Cmnr, Nat. Conf. Cmnrs. Uniform State Laws, 57-60; secy, Constitution Revision Assembly, Ky, 64-67. Sig.C, U.S.A, 43-47, Capt. Acad. Polit. & Soc. Sci; Polit. Sci. Asn; Bar Asn; Pub. Personnel Asn; Judicature Soc. State constitutions; legal aid; poverty. Publ: Ed, Kentucky revised statutes, Commonwealth Ky, 58; auth, Administrative regulations, 53 & Criminal procedures, 59, Ky. State Bar J. Address: School of Law, University of Louisville, Louisville, Ky. 40208.

AKERS, DONALD S(IMMONS), Demog, see 10th ed, Soc. & Behav. Vols.

AKIN, PROF. WALLACE E(LMUS), b. Murphysboro, Ill, May 18, 23; m. 48; c. 2. GEOGRAPHY. B.A, Southern Illinois, 48; M.A, Indiana, 49; Ph.D. (geog), Northwestern, 52. Lectr. phys. geog, Northwestern, 51-52; instr. GEOG, Illinois, 52-53; assoc. prof, DRAKE, 53-62, PROF, 62- Nat. Sci. Found. travel grant, Int. Geog. Cong, Sweden, 61; Fulbright res. grant, Denmark, 61-62. U.S.N.R, 43-46, Lt.(jg). AAAS; Asn. Am. Geog; Arctic Inst. N.Am; Royal Danish Geog. Soc. Climate and dairying in the tropics; water resources and problems; Latin American geography; land reclamation in Denmark. Publ: Climate and dairying in the San Juan area of Puerto Rico, P.I. Geog. J; contrib, Geology, topography, ground water, soils and natural resources, In: Water resources and water problems of Iowa river basins; auth, Reclamation of the Danish heath, J. Soil & Water Conserv, 5-6/63. Address: Dept. of Geography, Drake University, Des Moines, Iowa 50311.

AKIWOWO, PROF. AKINSOLA AYODELE, Sociol, Cultural Anthrop, see 10th ed, Soc. & Behav. Vols.

AKRAM, DR. AGHA MOHAMMAD, b. Kazian, Pakistan, Sept. 12, 24; m. 57; c. 2. PSYCHOLOGY. M.A, Glasgow, 57; Ph.D.(psychol), London, 64. Lectr. PSYCHOL, Glasgow, 64-67; ASSOC. PROF, LAKEHEAD, 67- Assoc. Brit. Psychol. Soc. Development of moral reasoning in young children; standardization of tests of ability on American Indians. Publ: Co-auth, Our world, Univ. Publishers, Lahore, Pakistan, 55; auth, Moral judgments of Indian and Pakistani children, Brit. Psychol. Soc. Bull, 66. Address: Dept. of Psychology, Lakehead University, Port Arthur, Ont, Can.

AKUTAGAWA, DR. DONALD, b. Grace, Idaho, June 7, 23; m. 48; c. 3. CLINICAL PSYCHOLOGY. M.A, Chicago, 51; Ph.D, Pittsburgh, 56. Counsr, Shankman Orthogenic Sch, Univ. Chicago, 51-52; psychometrist, inst. psychol. serv, Ill. Inst. Tech, 52-53; trainee clin. psychol, Vet. Admin, Pittsburgh, Pa, 53-56; clin. psychologist, Child Study Center Phila, 56-60; chief clin. psychologist, Wren Eval. Center, 60-61; CLINICAL PSYCHOLOGIST, Jefferson Med. Col, 61-63; Main Line Guid. Center, 63-67; EASTSIDE COMMUNITY MENT. HEALTH CENTER, 68- Instr, Pittsburgh, 55-56; res. clin. psychologist, Governor Bacon Health Center, Del, 57-59. Clin. psychol. consult, Jewish Center Child Guid, 62-63; Fitzgerald-Mercy Hosp, 63-66; consult. psychologist, H.J. Woehr & Assocs, 66-67. U.S.A, 44-46. Psychol. Asn; Acad. Psychother; Group Psychother. Asn; Orthopsychiat. Asn. Children's learning; psychodiagnostic testing; psychotherapy. Publ: Effect of age and relative brightness on associative learning in children, Child Develop; co-auth, Beartrapping: A study in interpersonal behavior, Am. J. Psychother, 65; auth, Basic concepts of anxiety: A synthesis, Psychology, 67. Address: 11400 N.E. Main St, Bellevue, Wash. 98004.

ALBAUGH, DR. WILLIAM P(RESTON), b. Chicago, Ill, July 17, 22; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.A, DePauw, 46, M.A, 48; Ph.D.(psychol), Northwestern, 52. Clin. psychologist & asst. chief in charge diag, Downey Vet. Admin. Hosp, Ill, 48-58; CLIN. PSYCHOLOGIST, 58- Consult, Dade County Childrens Home, 58-; Montanari Clin. Sch, Hialeah, Fla, 60- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 52. U.S.N.A.F, 43-45, Lt.(jg). Psychol. Asn. Teaching psychology; psychodiagnostic methodology; psychotherapy. Publ: Co-auth, Selected bibliography for the college teacher of psychology, J. Gen. Psychol; Sources of ambiguity in psychological reports, J. Clin. Psychol. Address: 6235 S.W. 116th St, Miami, Fla. 33156.

ALBAUM, DR. GERALD, b. Los Angeles, Calif, Nov. 2, 33; m. 54; c. 3. MARKETING, ECONOMICS. B.A, Washington (Seattle), 54, M.B.A, 58; Ph.D.(mkt, econ), Wisconsin, 62. Instr. commerce, Wisconsin, 61-62; asst. prof. bus. admin, Pittsburgh, 62-64; MKT, Arizona, 64-65, ASSOC. PROF, 65-67; MASSACHUSETTS, AMHERST, 67- Sig.C, U.S.A, 54-56. Econ. Asn; Mkt. Asn. Management information systems; human interaction patterns; government promotion of international business; consumer behavior and attitudes. Publ: Co-auth, Modern marketing thought, Macmillan, 64; auth, Exploring interaction in a marketing situation, J. Mkt. Res, 5/67; Information flow and decentralized decision making in marketing, Calif. Mgt. Rev, summer 67, Address: Dept. of Marketing, University of Massachusetts, Amherst, Mass. 01002.

ALBEE, PROF. GEORGE W(ILSON), b. St. Marys, Pa, Dec. 20, 21; m. 55. PSYCHOLOGY. Ph.D, Pittsburgh, 49. Res. clin. psychologist, West. Psychiat. Inst, Pa, 49-51; asst. exec. secy, Am. Psychol. Asn, 51-53; Fulbright prof, Helsinki, 53-54; assoc. prof. PSYCHOL, CASE WESTERN RESERVE, 54-56, PROF, 56- Consult, Vet. Admin; Cleveland State & Cleveland Receiving Hosps; Surgeon Gen, U.S. Army, 62- Dir, Manpower Task Force, Joint Cmn. Ment. Illness, 56-58. U.S.A.A.F, 43-46; U.S.N.R, Lt.(jg). AAAS; Psychol. Asn. Conceptual models of mental disorder. Publ: Relation of conceptual models of manpower, In: Emergent approaches to mental health problems, Appleton, 67; Models of disturbed behavior and institutional manpower requirements, In: Manpower and mental health, Aldine 68. Address: Psychology Bldg, Case Western Reserve University, Cleveland, Ohio 44106.

ALBERDA, DR. WILLIS JOHN, Math. Statist, see Suppl. IV to 11th ed, Phys. & Biol. Vols.

ALBERS, PROF. HENRY H, b. Germany, Nov. 24, 19. ECONOMICS, BUSINESS MANAGEMENT. A.B, Iowa, 41, A.M, 46; Ph.D, Yale, 51. Instr, Iowa, 46-47; Yale, 47-49; asst. prof. econ, Iowa State, 49-53, assoc. prof, 53-57; MGT, Iowa, 57-61, prof, 61-68; PROF. & CHMN. DEPT, NEBRASKA, 68- Consult, U.S. Army Mgt. Eng. Training Agency, 61- Mgt. Asn; Econ. Asn. Management and organizational theory. Publ: Organized executive action; Principles of organization and management, 65 & co-auth, Programmed organization and management principles, 66, Wiley. Address: Dept. of Management, University of Iowa, Iowa City, Iowa 52240.

ALBERT, PROF. ALLEN D(IEHL), b. Washington, D.C, Apr. 27, 02. SOCIOLOGY. Ph.B, Chicago, 24, A.M, 31, fel, 31-36, Ph.D, 36; Harvard, 26-27. Mason-Bill lectr. Old Testament & Semitics, Seabury-West. Theol. Sem, 32-38, Mason-Bill prof, 38-41, registr. & secy. faculty, 38-41; prof. sociol. & chmn. dept, EMORY, 46-51, chmn. div. soc. sci, 48-49, prof. SOCIOL, 54-61, EMER. PROF, 61- U.S.A, 41-46, Lt. Col. Sociol. Asn; Oriental Soc; Hist. Asn. Ancient and modern cities; population; city and family. Address: 281 W. Pace's Ferry Rd. N.W, Atlanta, Ga. 30305.

ALBERT, PROF. E(THEL) M(ARY), b. New Britain, Conn, Mar. 28, 18. ANTHROPOLOGY. A.B, Brooklyn Col, 42; A.M, Columbia, 47; Ph.D.(anthrop, philos), Wisconsin, 49. Instr. philos, Brooklyn Col, 46-47; Wisconsin, 47-49; Syracuse, 49-52; res. assoc, lab. soc. rels. Harvard, 53-57; fel, Center Adv. Study Behav. Sci, 57-58; PROF. speech, California, Berkeley, 58-66; ANTHROP. & SPEECH, NORTHWESTERN, 66- Res. fel, Ford Found. Overseas Prog, 55-57; asst. dir, Ed. Resources in Anthrop. Proj, 60-61; Soc. Sci. Res. Coun. fel, 62; Nat. Sci. Found. sr. fel, 65-66 & summer res. grant, 66. Anthrop. Asn; Philos. Asn; African Studies Asn; Philos. Sci. Asn. Ethnophilosophy; philosophy of social science; value theory; cultural logics; semantics. Publ: Co-auth, Selected bibliography on values, ethics and esthetics in the behavioral sciences and philosophy, 1920-1958, Macmillan, 60 & The people of Rimrock, Harvard, 66; Classification of values, Am. Anthrop, 56. Address: Dept. of Anthropology, Northwestern University, Evanston, Ill. 60201.

ALBERT, FLOYD B(ENJAMIN), b. Brooklyn, N.Y, Nov. 13, 21; m. 51; c. 1. ECONOMICS. B.A, Brooklyn Col, 42; M.A, American Univ, 48. Jr. economist, State Labor Dept, N.Y, 48-50, economist, 50-54, sr. economist, 54-58, chief prog. & labor mkt. anal, 58-60; EXEC. ASST. TO PRES, COLUMBIA DENTOFORM CORP, 60- U.S.A, 43-46. Econ. Asn; Acad. Polit. & Soc. Sci. Employment and income; productivity. Address: 35 Park Rd, Scarsdale, N.Y. 10583.

ALBERT, PROF. ROBERT SAMUEL, b. Dallas, Tex, May 23, 27; m. 61; c. 2. PSYCHOLOGY. B.A, Vanderbilt, 50; M.A, Texas, 52; Nat. summer scholar, Harvard, 53; Ph.D.(psychol), Boston, 56. Asst. prof. psychol, Emory, 56-57; res. assoc, Harvard Med. Sch. & Mass. Ment. Health Center, Boston, 57-61; asst. prof, Skidmore Col, 61-64; assoc. prof. child develop, Connecticut, 64-65; from assoc. prof to PROF. PSYCHOL, PITZER COL, 65- AAAS; Psy-

chol. Asn; Soc. Res. Child Develop. Communication processes, mass and small groups; family dynamics, cognitive development of gifted and genius. Publ: Co-auth, Prevention of hospitalization, Grune, 63; auth, Role of mass media and the effect of aggressive film content upon children's aggressive responses and identification choices, Genetic Psychol. Monogr, 57; co-auth, Separation phenomena as a basis for resistance to hospitalization, Int. J. Soc. Psychiat, 66/67. Address: Dept. of Psychology, Pitzer College, Claremont, Calif. 91711.

ALBERTS, DR. ROBERT C(HARLES), b. Buffalo, N.Y, Jan. 22, 25; m. 47. B.A, Washington State, 49; Chicago, 49; M.S, Wisconsin, 51, univ. fel, 55, Ford Found. fel, 56-58, Ph.D.(anthrop), 63; Harvard, 51-52; Logan Mus. fel, Beloit Col, 55-56. Asst. anthrop, Wisconsin, 49-51; chief community anal, U.S. Opers. Mission, Iran, 52-54; instr. anthrop, Beloit Col, 55-56; res. coordinator, U.S. Govt, 59-65; for. area res. dir, Human Sci. Res, Inc, 65-67; MEM. TECH. STAFF, RES. ANAL. CORP, 67- Lectr, George Washington, 65. Fel. Anthrop. Asn. Social anthropology of the Middle East; applied anthropology in underdeveloped areas; foreign area team research in practical problems of social, political and economic change; military applications of behavioral science research. Publ: Social structure & cultural change in an Iranian village, Ph.D. Dissertation, 63. Address: 4775 Sheridan Dr, Williamsville, N.Y. 14221.

ALBERY, DR. MICHAEL, b. Warsaw, Poland, U.S. citizen. FINANCE, ECONOMICS. M.B.A, Berlin, 14; dipl, Col. Diplomatic Serv, 20; Ph.D, Lausanne, 28. Exec, Anaconda-Giesche, 26-40; controller, Fruehauf-Iowa Eng, 42-44; lectr, Detroit, 45-50; prof. finance & econ, Boston Col, 50-64; ECON. ADV, GOVT. COSTA RICA, 64- Hon. consul, Spain; UN adv, Govt. Paraguay, 61-62. Econ. Asn; Finance Asn; Acad. Econ. & Polit. Sci. International finance; financial and cost management; currency stabilization. Address: Presidencia de la Republica, Officina de Planificacion, San Jose, Costa Rica.

ALBIG, PROF. J(OHN) W(ILLIAM), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 63.

ALBINSKI, PROF. HENRY STEPHEN, b. Chicago, Ill, Dec. 31, 31; m. 54. POLITICAL SCIENCE. B.A, California, Los Angeles, 53, M.A, 55; Ph.D. (polit. sci), Minnesota, 59. Instr. POLIT. SCI, Minnesota, 59; PA. STATE, 59-61, asst. prof, 61-65, assoc. prof, 65-68, PROF, 68-, fel, inst. humanistic studies, 68. Rockefeller Found. vis. fel, dept. int. rels, inst. pac. studies, Australian Nat. Univ, 63-64. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Hansard Soc; Australasian Polit. Studies Asn; Can. Polit. Sci. Asn. Comparative and international politics; political theory; commonwealth of nations, especially Britain, Australia, Canada and southern Africa; developing states of Afro-Asia; colonial policy; developmental politics. Publ: Australia's policies and attitudes toward China, Princeton, 65; The Australian labor party and the aid to parochial school controversy, Pa. State Univ, 66; co-auth, European political processes, Allyn & Bacon, 68. Address: Dept. of Political Science, 129 Sparks Bldg, Pennsylvania State University, University Park, Pa. 16802.

ALBIZU-MIRANDA, DR. C(ARLOS), Clin. & Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

ALBRECHT, DR. ANDREW C(HRISTOPH), Geog, Anthrop, see 10th ed, Soc. & Behav. Vols.

ALBRECHT, PROF. ARTHUR E(MIL), b. New York, N.Y, Aug. 19, 94. ECONOMICS, BUSINESS ADMINISTRATION. A.B, City Col. New York, 16; A.M, George Washington, 17; Ph.D, Columbia, 23. Expert & spec. agent, U.S. Bur. Labor Statist, D.C, 16-19; instr. econ, City Col. New York, 19-23; dir. New York Off, State Dept. Agr, N.Y, 23-31; instr. ECON, CITY COL. NEW YORK, 31-33, asst. prof, 33-35, assoc. prof, 35-45, prof, 45-63, chmn. dept. bus. admin, 40-63, EMER. PROF, 63- Lectr, teachers col, Columbia, 24-33; Fulbright prof, Turku, 58. Consult, War Prod. Bd, 42-45. Marketing. Address: 17 Lexington Ave, New York, N.Y. 10010.

ALBRECHT, DR. EUGENE J, b. St. Louis, Mo, Mar. 13, 27; m. 60. PSYCHOLOGY. A.B, St. Louis, 49; M.A, Loyola (Ill), 52, Ph.D.(psychol), 57. From instr. to asst. prof. psychol, Loyola (Ill), 52-57; asst. prof, Detroit, 57-60; sr. res. scientist, defense systs. div, Gen. Motors Corp, 60-61; ASSOC. PROF. PSYCHOL. & CHMN. DEPT, VILLANOVA, 61- U.S.A, 45-46. AAAS; Psychol. Asn. Galvanic skin response; psychophysics; perception; developmental psychology. Publ: Psychology of human development, McGraw, 61. Address: Dept. of Psychology, Villanova University, Villanova, Pa. 19085.

ALBRECHT, DR. H(AROLD) ROBERT, b. Toledo, Ohio, Feb. 29, 20; m. 48; c. 2. CLINICAL PSYCHOLOGY. B.A, Ohio State, 43, Ph.D, 51. CHIEF admission & reception sect, VET. ADMIN. HOSP, 51-56, clin. psychol. serv, 56-61, PSYCHOL. SERV, 61- Lectr, Ohio State, 61-; Ohio, 61- U.S.N.R, 43-46, Lt.(jg). Psychol. Asn. Methods of individual psychotherapy; training of clinical psychology interns. Address: Psychology Service, Veterans Administration Hospital, Chillicothe, Ohio 45601.

ALBRECHT, PROF. M(ILTON) C(HARLES), b. Dundee, Ill, Sept. 17, 04; m. 29. SOCIOLOGY. A.B, Antioch Col, 29; A.M, California, 31, Ph.D, 37. Instr. English, Idaho, 37-42, asst. prof, 43-46; sociol, STATE UNIV. N.Y. BUFFALO, 46-48, assoc. prof. sociol. & anthrop, 48-55, PROF. SOCIOL, 55-, asst. dean col. arts & sci, 54-56, assoc. & acting dean, 57-58, dean, 58-65. State Univ. N.Y. Res. Found. summer faculty res. fel, 66. Mem. eval. teams, Middle States Asn. Cols. & Sec. Schs, Monmouth Col.(N.J), 63 & 66, City Col. New York, 66. Fel. Sociol. Asn; Nat. Coun. Family Rels. Sociology of literature, arts and family; social change. Publ: Ed, Studies in sociology, Buffalo studies, State Univ. N.Y. Buffalo; auth, Relationship of literature and society, Am. J. Sociol; Does literature reflect common values, Am. Sociol. Rev. Address: Faculty of Social Sciences & Administration, State University of New York at Buffalo, Buffalo, N.Y. 14214.

ALBRECHT, PROF. PAUL A(BRAHAM), b. Newton, Kans, Dec. 9, 22; m. 47; c. 2. PSYCHOLOGY. A.B, Bethel Col, 47; M.A, Chicago, 49, fel, 50-51, Ph.D.(human develop), 53. Surv. dir, Nejelski & Co, 51-53; res. assoc. & dir. communication projs, indust. rels. center, Chicago, 53-55; asst. prof. PSYCHOL, Whittier Col, 55-57; assoc. prof, CLAREMONT MEN'S COL. & GRAD. SCH, 57-62, PROF, 62- Consult, Buchen Co, Ill, 54-55; indust. rels. center, Calif. Inst. Tech, 56-, Jet Propulsion Lab, 67-; Lever Bros, 63-65; Bank of Am, 67- Psychol. Asn. Management development and training; organizational analysis; executive selection. Publ: Projective methods in industry, J. Bus; Behavioral sciences impact on management and supervisory training, In: Frontiers of industrial relations; co-auth, Validation of multiple assessment procedure for managerial personnel, J. Appl. Psychol, 64. Address: 645 W. Tenth St, Claremont, Calif. 91711.

ALBRECHT, PROF. RUTH, b. Mo, Oct. 27, 10. SOCIOLOGY, GERONTOLOGY. B.Sc, Washington (St. Louis), 34; M.A, Chicago, 46, Ph.D, 51. Instr, Indiana, 46-47; res. asst. cmt. human develop, Chicago, 48-49, res. assoc, 49-50; res. prof. family life & head dept. family life res, Auburn, 51-57; prof. family life & head dept, FLORIDA, 57-60, PROF. SOCIOL, 60- AAAS; Sociol. Asn; Geront. Soc; Soc. Appl. Anthrop; Acad. Polit. & Soc. Sci; Nat. Coun. Family Rels; Soc. Study Social Probs; fel. Int. Inst. Arts & Letters. Family relationships; problems of aging and social mobility. Publ: Ed, Aging in a changing society; Chap. In: Aging: a regional approach; co-auth, Older people, Longmans Green. Address: 1218 N.W. Sixth St, Gainesville, Fla. 32601.

ALBRIGHT, JOHN, Econ, Statist, see 10th ed, Soc. & Behav. Vols.

ALBRIGHT, DR. LEWIS E(DWIN), b. Detroit, Mich, Sept. 23, 31; m. 55; c. 2. PSYCHOLOGY. B.S, Northwestern, 53; M.A, Missouri, 54; Am. Seed Trade Asn. fel. & Ph.D, Purdue, 56. Personnel res. consult, Int. Harvester Co, 56; res. asst, Standard Oil Co.(Ind), 56-59, res. assoc, 59-60; supvr. employee rels, res, Am. Oil Co, 61-66; MGR. MANPOWER PLANNING & DEVELOP, KAISER ALUMINUM & CHEM. CORP, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. Nat. Guard, 50-53. Psychol. Asn; Int. Asn. Appl. Psychol. Personnel selection and placement; attitude measurement; appraisal and development of employees and executives. Publ: Co-auth, The use of psychological tests in industry, Howard Allen, 63; auth, Personal history correlates of physical scientists' career aspirations & Prediction of research competence and creativity from personal history, J. Appl. Psychol. Address: 63 Asilomar Circle, Oakland, Calif. 94611.

ALBRIGHT, PROF. PRESTON B(AILEY), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ALBRIGHT, PROF. SPENCER D(ELANCEY), JR, b. Nashville, Tenn, July 22, 00; m. 29. POLITICAL SCIENCE. A.B, Arkansas, 22; A.M, Chicago, 32; Ph.D, Texas, 40. Instr, Tex. Tech. Col, 39-40; lectr. POLIT. SCI, Reed Col, 40-42; Washington (Seattle), 42-43; from assoc. prof. to PROF, RICHMOND, 46-, CHMN. DEPT. HIST. & POLIT. SCI, 67- U.S.A, 18; U.S.A.A.F, 43-46, Capt. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Nat. Munic. League; Nat. Ed. Asn. American ballot; ballot analysis and ballot changes since 1930; judicial personnel. Address: Dept. of History & Political Science, University of Richmond, Richmond, Va. 23226.

ALCHIAN, PROF. ARMEN A(LBERT), b. Fresno, Calif, Apr. 12, 14. ECONOMICS. A.B, Stanford, 36, Ph.D, 44. From asst. prof. to PROF. ECON, CALIFORNIA, LOS ANGELES, 46- Economist, Rand Corp, 47- U.S.A.A.F, 42-46, Capt. Econ. Asn; Statist. Asn. Mathematics dictionary; statistical analysis; inflation; property rights and behavior. Publ: Co-auth, University economics, Wadsworth, 67. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

ALCORN, DR. DEWAINE A, b. Kearney, Nebr, Apr. 6, 32; m. 54; c. 2. SPECIAL EDUCATION. B.F.A, Kearney State Col, 56, M.S.Ed, 59; U.S. Off. Ed. fel. & Ed.D.(spec. ed), Colo. State Col, 63. Dir. workshop trainable ment. retarded, United Cerebral Palsy of Weld County, Inc, Colo, 60-61; teacher ment. retarded, pub. schs, Colo, 61-62; ASST. PROF. psychol. & spec. ed, Chadron State Col, 63-64; SPEC. ED, NEBRASKA, LINCOLN, 64- U.S.A, 52-54. Asn. Ment. Deficiency; Coun. Except. Children. Attitudes of college students toward mental retardation. Address: Dept. of Psychology & Measurements, University of Nebraska, Lincoln, Nebr. 68508.

ALCORN, DR. GEORGE BENNETT, b. Englewood, Colo, Apr. 12, 10; m. 63; c. 2. AGRICULTURAL ECONOMICS. B.S, California, 36, M.S, 37, D.P.A, Harvard, 55. Exten. economist, AGR. EXTEN, CALIFORNIA, BERKELEY, 37-56, DIR, 56- Dir. & counsr, West. Mkt. Cmt, 61-; adv. mem, State Soil Conserv. Cmn, Calif, 61-; mem. statewide agr. cmt, Calif. Chamber Commerce, 61- Address: Agricultural Extension, University of California, Berkeley, Calif. 94720.

ALDERFER, DR. CLAYTON P(AUL), b. Sellersville, Pa, Sept. 1, 40; m. 62. ORGANIZATIONAL BEHAVIOR. B.S, Yale, 62, Ph.D.(orgn. behavior), 66. ASST. PROF. ADMIN, GRAD. SCH. BUS. & PUB. ADMIN, CORNELL, 66- Psychol. Asn; Sociol. Asn. Human motivation; job design; client-researcher relationships in field settings; processes and outcomes of experimental learning. Publ: Convergent and discriminant validity by interview and questionnaire, J. Appl. Psychol, 67; An organizational syndrome, Admin. Sci. Quart, 67; Organizational diagnosis from client reactions to a researcher, Human Orgn, 68. Address: Graduate School of Business & Public Administration, Cornell University, Ithaca, N.Y. 14850.

ALDERFER, DR. EVAN B, b. Souderton, Pa, Dec. 27, 01; m. 31; c. 2. ECONOMICS. B.S, Pennsylvania, 24, Ph.D, 35. Prof. econ. & sociol, Juniata Col, 24-26; instr. indust, Wharton Sch, Pennsylvania, 26-37, asst. prof, 37-43; adv. econ, FED. RESERVE BANK, 43-66, ED. CONSULT, 66- Lectr, Beloit Col; Wharton Grad. Div, Pennsylvania, 43- Econ. Asn. Manufacturing industries. Publ: Co-auth, Economics of American industry. Address: 718 Roberts Ave, Drexel Hill, Pa. 19026.

ALDERFER, PROF. H(AROLD) F(REED), b. Souderton, Pa, Feb. 1, 03. POLITICAL SCIENCE. A.B, Bluffton Col, 22; A.M, Syracuse, 26, Ph.D, 28; LL.D, Parsons Col, 54. From asst. prof. to prof. & head dept. POLIT. SCI, PA. STATE, 28-60, EMER. PROF, 60- Exec. secy, inst. local govt, Pa. State, 34-60. Dir, Commonwealth Bur. Munic. Affairs, Pa, 44-50; Econ.

Coop. Admin, Greece, 50-52; dep. supt. dept. pub. instr, Commonwealth of Pa, 57-62. V.pres, Am. Munic. Asn, 48. Polit. Sci. Asn; Govt. Res. Asn. Pennsylvania local government and administration; American citizenship for Pennsylvania; Pennsylvania government. Publ: American local government and administration; Pennsylvania government, views, reviews and previews; Professional licensing in Pennsylvania. Address: Dept. of Political Science, Pennsylvania State University, University Park, Pa. 16802.

ALDERMAN, DR. EVERETT, b. Walker, Iowa, Nov. 14, 02; m. 52. INDUSTRIAL & COUNSELING PSYCHOLOGY. A.B, Pittsburgh, 29, M.A, 32, Ed.D, 38; Southern California, 33, 34; Harvard, 35, 37. Chief voc. appraiser PSYCHOL, PA. STATE, 47-51, asst. prof, 51-55, ASSOC. PROF, 55- Psychol. Asn. Speed and comprehension of reading; industrial supervisory and administrative development; vocational appraisal for promotion in industry. Publ: Managerial and supervisory educational needs of business and industry in Pennsylvania & Managerial and supervisory educational needs of cities, boroughs and townships in Pennsylvania, Pa. State Univ-Continuing Ed, 67; Comparison of Purdue pegboard norms occupations, Voc. Guid. J. Address: 1991 Berkwood Dr, Pittsburgh, Pa. 15243.

ALDERSON, PROF. WROE, Econ, Statist, see 10th ed, Soc. & Behav. Vols, deceased 65.

ALDOUS, DR. JOAN, b. Washington, D.C, Jan. 9, 26. SOCIOLOGY. B.S, Kansas State, 48; M.A, Texas, 49; Nat. Inst. Ment. Health fel, Minnesota, 60-63, Ph.D.(sociol), 63. Instr. sociol, Kansas State, 50-54, res. in family area, 55-60; asst. prof. FAMILY STUDIES & SOCIOL, MINNESOTA, MINNEAPOLIS, 63-66, ASSOC. PROF, 67- Res. grants, Inst. Life Ins, 64; Nat. Sci. Found, 64-66; Nat. Inst. Ment. Health, 64-67. Consult, demonstration & res. center for early ed, George Peabody Col, 68. Sociol. Asn; Nat. Coun. Family Rels; Soc. Res. Child Develop. Socialization, parental factors related to creativity in children; social stratification, effect of lower income males community participation on family participation. Publ: Urbanization, the extended family and kinship ties in West Africa, Soc. Forces, 10/62; Consequences on intergenerational continuity, J. Marriage & the Family, 11/65; co-auth, Socialization for marriage and parenthood: the transition to adulthood, In: Handbook of socialization, (in press). Address: 1014 Social Science Tower, University of Minnesota, Minneapolis, Minn. 55455.

ALDRIDGE, PROF. GORDON J(AMES), b. Toronto, Ont, Can, Oct. 19, 16; nat; m. 41; c. 1. GERONTOLOGY. B.A, Toronto, 38, M.A, 48, M.S.W, 49; Ph.D. (community develop), Michigan, 55; dipl. ed, London, 63. Caseworker, Family Agency, 39-41, case supvr, 46-50, asst. exec. secy, 49-50; assoc. prof. SOC. WORK, Fla. State, 50-52; MICH. STATE, 52-57, PROF, 57-, dir. sch. soc. work, 59-66. Lectr, Toronto, 46-50. Consult, inst. higher ed, Columbia Univ, 62-65. Mem, Coun. Social Work Ed. Can. Army, 41-46, Maj. Geront. Soc; Nat. Asn. Soc. Workers; Int. Asn. Geront. Social casework; mental hygiene. Publ: Social Issues and psychiatric social work practice; Social welfare and aging; co-auth, Liberal education and social work, Columbia, 65. Address: School of Social Work, Michigan State University, East Lansing, Mich. 48823.

ALDRIDGE, DR. JACK H(OWARD), b. San Francisco, Calif, Aug. 9, 20; m. 41; c. 1. POLITICAL SCIENCE, HIGHER EDUCATION. B.A, Southern Illinois, 57; M.B.A, Indiana, 58; Kellogg fel, Stanford, 63-64, A.M, 65, Ph.D.(ed), 67. Instr. polit. sci, CITY COL. SAN FRANCISCO, 63-67, ASST. DEAN, 67- Lectr, San Jose State Col, 66; San Francisco, 67- Mem. nat. acad. adv. coun, Multi-Culture Inst, 67- U.S.A.F, 39-61, Lt. Col. Polit. Sci. Asn. Comparative study of ideas and theories concerning junior colleges of educational leaders, 1900-1935 and 1945-1960. Publ: Community of universities, Harvard Ed. Rev, winter 64. Address: City College of San Francisco, Ocean & Phelan Aves, San Francisco, Calif. 94112.

ALECK, PROF. ADOLPH W(ILLIAM), b. Elberfeld, Ind, Aug. 13, 99; m. 40. PSYCHOLOGY. Ph.D, N.Y. Univ, 31. Lectr. ed. psychol, N.Y. Univ, 28-40; PROF. PSYCHOL. & ED, MISS. STATE, 47-, HEAD DEPT, 56- Vis. prof. State Univ. N.Y. Col. Fredonia, 64-66. Psychol. Asn; Asn. Ment. Deficiency. Educational psychology; mental hygiene; gerontology. Publ: Co-auth, Educational psychology; Readings in psychology & Outline of educational psychology. Address: Dept. of Psychology, Mississippi State University, State College, Miss. 39759.

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ALES, PROF. VICTOR W(OODROW), b. New York, N.Y, Mar. 4, 13; m. 54; c. 1. PSYCHOLOGY. B.S, Fordham, 35, M.A, 43 & 44, Ph.D.(psychol), 53. Dir, Mallon Consult. Serv, 41-44; instr. psychol, sch. commerce, N.Y. UNIV, 45-50, asst. prof, 50-56, ASSOC. PROF, 57-64, PSYCHOL. & SOC. WORK, GRAD. SCH. SOC. WORK, 64- Supvr. re-employ adv. div, Selective Serv, N.Y, 43-44; lectr, Esso Standard Oil, N.J, 55-56. Mgt. consult, Alihan Assocs, 61- Conf. leader, Am. Inst. Banking, 56-64; mem, Coun. Soc. Work Ed. Psychol. Asn. Clinical psychology; personnel assessment; motivation. Address: 329 Forest Rd, Douglaston, N.Y. 11363.

ALEVY, DR. DANIEL I(SAAC), b. Long Beach, N.Y, May 29, 29; m. 54; c. 3. CLINICAL PSYCHOLOGY. B.A, City Col. New York, 54, U.S. Pub. Health Serv. fels, Indiana, 55-57, Ph.D.(clin. psychol), 60. Trainee clin. psychol, Vet. Admin. Hosp, West Haven, Conn, 57-59; STAFF CLIN. PSYCHOLOGIST, dept. health, Yale, 59-60; Northshore Child Guid. Center, Manhasset, N.Y. 60-61; Northshore Neuropsychiat. Center, Roslyn, 61-62; chief clin. psychologist, Westchester Jewish Community Serv, White Plains, 61-62; ASST. PROF. PSYCHOL, SOUTH. CONN. STATE COL, 63-; FIELD SELECTION OFFICER, PEACE CORPS, 64- Private Practice, 61-; Consult, Yale Psychiat. Inst, 66-67; Conn. Valley Hosp, 67- U.S.A, 50-52. Psychol. Asn. Personal and organizational change through individual and group methods; use of audio-visual techniques and their effects on behavior. Publ: Psychotherapy's autonomy, Am. Psychologist; A Psychologist in the schools, Psychol. Schs; 10/64. Address: 210 Prospect St, New Haven, Conn. 06511.

ALEXANDER, DR. ALBERT, b. New York, N.Y, Mar. 11, 14; m. 47; c. 2. ECONOMICS, POLITICAL SCIENCE. B.S.S, City Col. New York, 35, M.S, 38; Ph.D.(polit. sci, econ), New Sch. Soc. Res, 57. Teacher, high schs. N.Y, 36-58; textbook analyst, New York Bd. Ed, 58-61; EXEC. DIR. NEW YORK COUN. ECON. ED, 61- Adj. assoc. prof, Long Island, 62- Mem, mat. eval. cmt, Nat. Task Force Econ. Ed, 61-63; Cmt. Measurement Econ. Understanding & Cmn. Econ. Competence, 62; New York Times Ed. Activities Adv. Bd, 67- U.S.A.A.F, 41-45, S/Sgt. Econ. Asn; Hist. Asn; Nat. Coun. Soc. Studies. Economic education; Nineteenth Century influence of American ideas on Europe; history of the city of New York. Publ: Economics, Watts, 63; co-auth, The modern economy in action, Pitman, 68. Address: 131 Livingston St, Brooklyn, N.Y. 11201.

ALEXANDER, DR. ALEC P(ETER), b. San Francisco, Calif, Sept. 21, 23; m. 53; c. 2. ECONOMICS. B.A, California, 49, Ph.D.(econ), 57; Ford Found. traveling fel, Turkey, 54-56. Asst. ECON, California, Berkeley, 52-54, assoc, 57; asst. prof, Northwestern, 57-59; Soc. Sci. Res. Coun. res. training fel. linear prog, Stanford, 59-60; asst. prof. ECON, CALIFORNIA, SANTA BARBARA, 60-65, ASSOC. PROF. & CHMN. DEPT, 65- Summers, asst. prof, California, Berkeley, 58, Univ. Cmt. Int. Training & Res. grant, 61. Sr. res. analyst, Greek Center Econ. Res, Athens, Greece, 63-64. Mem. joint mission Liberia, Int. Coop. Admin—Northwestern Univ, 60. Nat. Greek Guerillas, 44-45, 2nd Lt. Econ. Asn. Economic theory and development; activity analysis. Publ: Industrial entrepreneurship in Turkey: origins and growth, Econ. Develop. & Cultural Change, 7/60; Industrial entrepreneurship in contemporary Greece: origins and growth, 66 & The supply of industrial entrepreneurship, 67, Explor. in Entrepreneurial Hist. Address: Dept. of Economics, University of California, Santa Barbara, Calif. 93106.

ALEXANDER, DR. ARISTOTLE ALEX, b. Milwaukee, Wis, May 25, 33. PSYCHOLOGY, PSYCHOPHYSIOLOGY. B.A, Wisconsin, 57, M.A, 59, Ph.D. (psychol), 62. Fel, clin. psychol, Wisconsin, 62; task scientist, U.S. Dept. Air Force, 63-65; ASSOC. PROF. PSYCHIAT, SCH. MED, WISCONSIN & RES. ASSOC, WIS. PSYCHIAT. INST, 65- Consult, Waupun State Prison, Wis, 65- U.S.A.F, 63-64, 1st Lt. AAAS; Psychol. Asn; N.Y. Acad. Sci. Psychophysiological studies of adaptation and psychopathology; psychotherapy; personality theory. Publ: Periodic nature of spontaneous peripheral nervous system activity, Nature, 3/63; co-auth, Relationship between physiological and psychological responsivity in depression, J. Nerv. Ment. Disorders, 6/63; auth, Ego strength and physiological responsivity, Arch. Gen. Psychol, 8/63. Address: Dept. of Psychiatry, University Hospitals, Madison, Wis. 53706.

ALEXANDER, DR. CHARLES K, b. Lisbon, Iowa, May 5, 05; m. 37; c. 4. ECONOMICS. B.A, Cornell Col, 27; M.A, Iowa, 29; Ph.D.(econ), Wisconsin, 38. From res. dir. to V.PRES, WIS. TAXPAYERS ALLIANCE, 32- Consult, cmt. state budget, State Legis, Wis, 42-46, cmt. hwys, 49-, revenue sources cmt, 55-56, adv, cmt. ed, 48. Econ. Asn; Soc. Pub. Admin. State and local finance; statistics; highway transportation. Publ: Financing public highways, Farm Policy Forum; How can state and local governments face up to their financial problems, Proc, Nat. Tax Asn; contrib, Wisconsin tax system, Wis. Blue Book. Address: Wisconsin Taxpayers Alliance, 335 W. Wilson, Madison, Wis. 53703.

ALEXANDER, DR. CHARLES NORMAN, JR, b. Birmingham, Ala, Sept. 30, 39. SOCIOLOGY. A.B, Alabama, 61; M.A, North Carolina, 63, Ph.D.(sociol), 65. Vis. asst. prof. SOCIOL, Vanderbilt, 65-66; ASST. PROF, STANFORD, 66- Co-prin. investr, Nat. Inst. Ment. Health res. grant, 65-66, prin. investr, 67-68. AAAS; Sociol. Asn; Psychol. Asn. Social psychology. Publ: Consensus and mutual attraction in natural cliques, Am. J. Sociol, 1/64; co-auth, Peer influences of educational aspirations and attainments, Am. Soc. Rev, 8/64; auth, Ordinal position and sociometric status, Sociometry, 3/65. Address: Dept. of Sociology, Stanford University, Stanford, Calif. 94305.

ALEXANDER, DR. C(HARLES) S, b. Santiago, Chile, Dec. 26, 16; U.S. citizen; m. 43. GEOGRAPHY. B.A, California, 47, M.A, 50, Ph.D, 55. Instr. GEOG, San Francisco State Col, 51-52; from instr. to PROF, ILLINOIS, URBANA, 53- U.S.N.R, 40-46, Comdr. Asn. Am. Geog; Geog. Soc; African Studies Asn; Royal African Soc; Tanganyika Soc. Physical geography of Caribbean and Africa. Publ: Geography of Margarita and adjacent islands, Venezuela, Univ. California Pub; A method of descriptive shore classification and mapping as applied to the Northeast Coast of Tanganyika, Ann. Asn. Am. Geog, 3/66; The marine terraces of the Northeast Coast of Tanganyika, Zeits für Geomorph, spring 68. Address: 2010 Cureton Dr, Urbana, Ill. 61801.

ALEXANDER, DR. CHESTER S, b. Fredericton, N.B, Mar. 7, 91; U.S. citizen; m. 22. SOCIOLOGY, STATISTICS. A.B, New Brunswick, 20; Ph.B, Chicago, 29, A.M, 32, Ph.D, 42. Res. prof. SOCIOL. & STATIST, WESTMINSTER COL.(MO), 38-63, EMER. RES. PROF, 63- Vis. prof, Cincinnati, Missouri & Tulane. Sociol. Asn; Statist. Asn. Social factors in longevity; methods of teaching students who have very superior native mental ability; American indians; American teachers; dropouts; traits of superior teachers. Address: 311 W. Fifth St, Fulton, Mo. 65251.

ALEXANDER, DR. FRANK D, b. Nashville, Tenn, Nov. 16, 03; m. 36. RURAL SOCIOLOGY. B.S, Peabody Col, 27, M.A, 29; Ph.D.(sociol), Vanderbilt, 38. Asst, Tenn. Valley Authority, 36-39, soc. sci. analyst, 49-56; assoc. prof. sociol. & psychol, Clemson Col, 39-41; planning technician, Nat. Resources Planning Bd, 41-43; soc. sci. analyst, U.S. Dept. Agr, 43-49; EXTEN. STUDIES ANALYST, CORNELL, 56- Eval. consult, U.S. Agency Int. Develop. Mission to Jamaica, 62-63. Sociol. Asn; Rural Sociol. Soc. Evaluation studies in adult education; rural community; social organization. Publ: Evaluation of the farm management phase of the farm and home management program in New York State; co-auth, Rural social organization in Goodhue County, Minnesota; Evaluation of family service program, Home Econ. Div. Clinton County, N.Y. Address: 436 Warren Hall, Cornell University, Ithaca, N.Y. 14850.

ALEXANDER, DR. HERBERT E, b. Waterbury, Conn, Dec. 21, 27; m. 54; c. 3. POLITICAL SCIENCE. B.S, North Carolina, 49; M.A, Connecticut, 51; fel, North Carolina, 54-55; Ph.D.(polit. sci), Yale, 58. Instr. polit. sci, Princeton, 56-58; DIR. CITIZEN'S RES. FOUND, 58- Vis. lectr, Princeton, 65; Wharton Sch, Pennsylvania, 66-67. Exec. dir, President's Cmn. Campaign Costs, 61-62; consult. to President, 62-64; Dept. Treas, 65; admin. cmt. U.S. House Rep, 66-; White House Study Group, 66-67; Cmt. Econ. Develop, 66- U.S.A, 46-47. Am. Polit. Sci. Asn; Int. Polit. Sci. Asn. Costs of political campaigns; methods of fund-raising; campaign expenditures; political broadcasting and the financial participation of groups and individuals in the electoral process. Publ: Ed, Studies in money in politics, 65, auth, Financing the 1964 election, 66 & Regulation of political finance, 66, Citizens' Res. Found. Address: Citizens' Research Foundation, 245 Nassau St, Princeton, N.J. 08540.

ALEXANDER, HUNTER HOLMES, b. New York, N.Y, Mar. 18, 34. POLITICAL SCIENCE. A.B, Harvard, 57; M.A, Hopkins, 61; Georgetown, 62-68. Res. specialist U.S.S.R, U.S. Dept. Defense, 61-62; writer & researcher, Congressman Laurence Curtis, 62; sci. writer, Scripta Technica, Wash, D.C, 62-63; researcher U.S.S.R, aerospace tech. div, LIBRARY CONG, 63-64, soc. sci. analyst, nat. referral center, 64-66, RES. ANALYST, DEFENSE RES. DIV, 66- Consult, tribes of S.Viet Nam proj, U.S. Army, 65. Participant, South. Conf. Slavic Studies, Kentucky, 66. U.S.N, 57-59, Lt. AAAS; Polit. Sci. Asn; Hist. Asn. Twentieth century Russian history; Soviet economics and science. Publ: Russian railroads, Sch. Adv. Int. Studies Rev, 60; Petrichenko and the Kronstadt revolt of 1921, Ukrainian Quart, 67. Address: 101 G St. S.W, Apt. A-801, Washington, D.C. 20024.

ALEXANDER, PROF. IRVING E(MANUEL), b. New York, N.Y, May 16, 22; m. 44; c. 3. PSYCHOLOGY. B.A, Alabama, 46, M.A, 47; A.M, Princeton, 48, Ph.D.(psychol), 49. Instr. PSYCHOL, Princeton, 49-51, lectr, 51-52, asst. prof, 52-58; training specialist, Nat. Inst. Ment. Health, 58-63; PROF, DUKE, 63-, CHMN. DEPT, 64- Bollingen fel, 54-55; vis. prof, Harvard, 66-67. U.S.A.A.F, 43-45, Lt. AAAS; Psychol. Asn. Personality theory; motivation; psychotherapy; audition. Publ: Death and religion, In: Perspectives in personality research; Studies in the psychology of death, In: The meaning of death; Psychopathology, a source book. Address: Dept. of Psychology, Duke University, Durham, N.C. 27706.

ALEXANDER, JAMES M, b. Helena, Ga, Jan. 22, 20; m. 49. MARKETING. A.B, Dickinson Col, 41; M.S. Pennsylvania, 48, M.A, 50. Instr. mkt, Wharton Sch. Finance & Commerce, Pennsylvania, 48-58; from dir. mkt. serv. to GEN. SALES MGR, S.S. WHITE CO, 58- Owner & res. dir, Alexander Res. Assocs, 52- Mil. Intel, 42-46, Lt. Mkt. Asn. Sales management; personal salesmanship; marketing research. Publ: How the wholesale drug sales manager spends his time; Conditions necessary to effectuate a sale in the dental industry; Time and duty study and the job of the sales manager. Address: Executive Offices, S.S. White Co, 211 S. 12th St, Philadelphia, Pa. 19105.

ALEXANDER, DR. JOHN W(ESLEY), b. Greenville, Ill, Apr. 7, 18; m. 46; c. 4. GEOGRAPHY. A.B, Illinois, 40, A.M, 41; Ph.D, Wisconsin, 49. From instr. to prof. geog, Wisconsin, 47-65; PRES, INTER-VARSITY CHRISTIAN FEL, 65- U.S.N.R, 42-46. Community economic bases and development; geography of manufacturing in the Rock River Valley. Publ: Economic base of Madison, Wisconsin; Basic-nonbasic concept of urban economic functions; Economic geography, Prentice-Hall, 63. Address: Inter-Varsity Christian Fellowship, 130 N. Wells, Chicago, Ill. 60606.

ALEXANDER, DR. JON, b. Carbondale, Ill, Jan. 2, 40; m. 62; c. 1. POLITICAL SCIENCE. B.A, Southern Illinois, 61, M.A, 62; fel, Kansas, 64, Ph.D. (polit. sci), 65. ASST. PROF. POLIT. SCI, Emory, 66-67; CARLETON (CAN), 67- Francis Drown Found. fel, Center Study Democratic Insts, 65-66; summer asst. prof, Columbia, 67. Am. Polit. Sci. Asn; Can. Econ. Asn. American government; policy-making; politics and institutions; political theory; international relations; political behavior. Publ: The self-fulfilling prophecy road to war, Change, 6/66; The administration of the amenities, Pub. Admin. Rev, 1/68; Lyndon the electronic manipulator, Saturday Night, 3/68. Address: Dept. of Political Science, Carleton University, Ottawa 1, Ont, Can.

ALEXANDER, PROF. JOSEPH, b. Atlanta, Ga, Oct. 4, 17; m. 46; c. 2. ECONOMICS. B.S, Oklahoma, 46; M.A, Columbia, 47; Ph.D.(econ), N.Y. Univ, 56. Mem. faculty ECON, BABSON INST, 50-61, assoc. prof, 61-62, PROF. & CHMN. DIV, 62- Found. Econ. Ed. fels, Col-Bus. Exchange Prog, 59, 66; fel. econ-in-action, Case Inst. Tech, 61, consult. eval, 63. Sgt. A.U.S, 41-45. Econ. Asn; Indust. Rels. Res. Asn; Regional Sci. Asn. Labor-management relations; government economic policies affecting the micro sector of the economy; regional economics. Publ: Co-auth, Factors influencing competition among flour mills in the Pacific slope states, Agr. Mkt. Serv, U.S. Dept. Agr, 59; auth, Cost-of-living adjustment of wages, Mutual Security Agency, U.S. Dept. Commerce, 52; Presidential interventionism: the crisis in collective bargaining, Miss. Valley J. Bus. & Econ, spring 67. Address: Babson Institute, Babson Park, Mass. 02157.

ALEXANDER, PROF. KENNETH O(LIVER), b. Vulcan, Mich, Oct. 19, 27; m. 59; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. B.A, Mich. State, 49; Ph.D, Mass. Inst. Tech, 57. Asst. econ, Mass. Inst. Tech, 51-52, indust. rel, 52-53; instr. ECON, Mich. State, 55-57, asst. prof, 57-61; assoc. prof, Mich. Col. Min. & Tech, 61-65; PROF, MICHIGAN TECH, 65- Assoc. content planning, Am. Econ, TV series, 62-63. U.S.C.G, 45-47; U.S.A, 53-55. Indust. Rel. Res. Asn; Econ. Asn. Collective bargaining; wage determination; wage structure and distributive shares of national income; market structure influence on labor relations; incomes and manpower policies. Publ: Co-auth, The American economy, McGraw, 62; auth, Market practices and collective bargaining in automotive parts, J. Polit. Econ; Strikes in manufacturing, 1947-57, Quart. J.Econ. Address: 212 Harris Ave, Hancock, Mich. 49930.

ALEXANDER, DR. LAWRENCE T(HEODORE), Psychol, see 10th ed, Soc. & Behav. Vols.

ALEXANDER, PROF. LEWIS McELWAIN, b. Summit, N.J, June 15, 21; m. 50; c. 2. GEOGRAPHY. A.B, Middlebury Col, 42; M.A, Clark, 48, Ph.D.(geog), 49. Instr. GEOG, Hunter Col, 49-50; asst. prof, Harpur Col, State Univ. N.Y, 50-57, assoc. prof, 57-60; PROF, RHODE ISLAND, 60- Res. fel, Mershon Soc. Sci. Prog, 66-67. Consult, U.S. Dept. State, 63-; exec. dir, Law of the Sea Inst, 65-; dep. dir, President's Cmn. Marine Sci, Eng. & Resources, 67-68. U.S.A.A.F, 42-46, Sgt. Asn. Am. Geog; Geog. Soc; Marine Tech. Soc; Am. Soc. Int. Law. Political geography; regional geography of Europe and northeastern United States; coastal geography; law of the sea; marine science policy. Publ: World political patterns; Offshore geography of northwestern Europe; Northwestern United States, Van Nostrand, 67. Address: Dept. of Geography, University of Rhode Island, Kingston, R.I. 02881.

ALEXANDER, PROF. ORVILLE B(URRIS), b. Vienna, Ill, Aug. 3, 09. GOVERNMENT. B.Ed, South. Ill. Norm. Univ, 31; A.M, Iowa, 34, Ph.D, 36. Asst. prof, South. Ill. Norm. Univ, 38-40, assoc. prof, 40-44; act. dir. res, State Legis. Coun, Ill, 44-46; PROF. GOVT, SOUTHERN ILLINOIS, 46-, CHMN. DEPT, 50- Vis. prof, Miami (Fla), 45; dir. res, Ill. Sch. Probs. Cmn, 51-63. Polit. Sci. Asn. Illinois state government; national legislation. Address: Dept. of Government, Southern Illinois University, Carbondale, Ill. 62901.

ALEXANDER, DR. PAUL B, b. Boston, Mass, June 14, 30; m. 58; c. 3. GEOGRAPHY. A.B, Brown, 52; M.A, Boston, 58; Ph.D.(geog), Oregon, 64. ASST. PROF. GEOG, MONTANA, 64- Asn. Am. Geog. Eastern European geography; geomorphology; cartography. Publ: Impact of communism on land use patterns, Rocky Mt. Soc. Sci. J, 65; Land utilization in karst, Studia Slovenica, 67. Address: Dept. of Geography, University of Montana, Missoula, Mont. 59801.

ALEXANDER, PROF. R(ALPH) S(AMUEL), b. Kingman, Kans, Feb. 17, 93; m. 17; c. 2. ECONOMICS. Ph.B, Col. Wooster, 16; Ph.D.(econ), Chicago, 25. Asst. econ, Chicago, 20; asst. prof, Carnegie Inst. Tech, 20-22; MKT, COLUMBIA, 22-45, assoc. prof, 45-50, prof, 50-61, PHILIP YOUNG EMER. PROF, 61- Tech. adv. wholesale codes, Nat. Recovery Admin, 33-34; ed. supvr, Am. Inst. Banking, 37-43; Dep. dir. in charge wholesale & retail trades div, War Prod. Bd. Mkt. Asn. Marketing. Address: Meadow Lakes, Apt. 34-06, Hightstown, N.J. 08520.

ALEXANDER, DR. ROBERT H(AROLD), b. Alton, Ill, Sept. 18, 18; m. 62. PSYCHOLOGY. A.B, Washington (St. Louis), 40, M.A, 49, Ph.D, 53. Instr. psychol, Washington (St. Louis), 47-49; chief area psychologist, State Dept. Pub. Instr, Ill, 49-55; assoc. prof. psychol. & chmn. dept, MacMurray Col. (Ill), 55-59; PRACTICING PSYCHOLOGIST, 59- Res. consult, Springfield Ment. Hyg. Clin, Alcoholic Rehab. Clin; consult, Dept. Voc. Rehab, Jacksonville, 60- U.S.A, 42-46, Capt. Soc. Clin. Hypnosis. Organic brain damage; personality problems. Publ: Construction and validity of an electrical aptitude test. Address: 725 S. Second St, Springfield, Ill. 62704.

ALEXANDER, ROBERT H(OUSTON), Geog. See 11th ed, Suppl. II to Phys. & Biol. Vols.

ALEXANDER, PROF. ROBERT J(ACKSON), b. Canton, Ohio, Nov. 26, 18; m. 49; c. 2. ECONOMICS, POLITICAL SCIENCE. B.A, Columbia, 40, M.A, 41, Ph.D.(econ), 50. Asst. economist, Bd. Econ. Warfare, 42; Off. Inter-Am. Affairs, 45-46; instr. ECON, RUTGERS, 47-50, asst. prof, 50-56, assoc. prof, 56-61, PROF, 61- Vis. prof, Columbia, 62-63. Summers, vis. prof, Atlanta, 49, Puerto Rico, 58, 59, 62, 64. Consult, Econ. Coop. Admin, Spain, 51; Int. Coop. Admin, Bolivia, 57; Am. Fedn. Labor & Am. Fedn. Labor-Cong. Indust. Orgn, 48-59. Mem. U.S. cmt, Inter-Am. Asn. Democracy & Freedom, 50-; nat. cmt, League Indust. Democracy, 55-; Socialist Party-Soc. Democratic Fedn, 57-66. Officer, Order Condor of the Andes, Bolivia, 63. U.S.A.A.F, 42-45, Sgt. Econ. Asn; Asn. Evolutionary Econ. Latin American affairs; economics development; history of labor and radical movements. Publ: Peron era; Communism in Latin America; The Venezuelan democratic revolution, Rutgers, 64. Address: Dept. of Economics, Rutgers, The State University, New Brunswick, N.J. 08903.

ALEXANDER, ROBERT M, b. La Grande, Ore, July 26, 20; m. 42. ECONOMICS, GOVERNMENT. B.S, Oregon State, 42; M.A, Harvard, 49. Asst. to dir, agr. exp. sta, Oregon State, 46-48; agr. economist, U.S. Dept. Agr, 48-50; ASST. DIR, AGR. EXP. STA, OREGON STATE, 50- U.S. Pub. Health Serv. spec. fel, Harvard, 67-68. U.S.A, 42-46, Capt. Public administration. Address: Agricultural Experimental Station, Oregon State University, Corvallis, Ore. 97331.

ALEXANDER, DR. SHELDON, b. New York, N.Y, July 16, 30; m. 60. SOCIAL PSYCHOLOGY. B.A, City Col. New York, 52; Ph.D, Rochester,

57. Asst. psychol, Rochester, 52-57, vis. instr, 55-57; U.S. Pub. Health Serv. res. fel. psychol. & commun. res, inst. commun. res, Illinois, 57-59, res. asst. prof. PSYCHOL, 59-60; ASSOC. PROF, SOUTHERN ILLINOIS, 60- Health scientist adminstr, Nat. Inst. Ment. Health, 67- AAAS; Psychol. Asn; Sociol. Asn. Interpersonal communication and perception; social influence processes; communication and attitude change; motivational factors in social interaction; measurement of motivational states. Publ: Co-auth, Correlates of manifest anxiety in perceptual reactivity, rigidity and self-concept, J. Consult. Psychol, Anxiety differential: initial steps in the development of measures of situation anxiety & The effectiveness of the anxiety differential in examination stress situations, 63, Ed. & Psychol. Measurement. Address: Dept. of Psychology, Southern Illinois University, Carbondale, Ill. 62901.

ALEXANDER, PROF. SIDNEY S(TUART), b. Forest City, Pa, May 3, 16; m. 41; c. 3. ECONOMICS. B.S, Harvard, 36, M.A, 38, Ph.D, 46; King's Col, London, 36-37. Instr, Harvard, 39-40, asst. prof. econ, 46-49; res. staff mem. financial res. proj, Nat. Bur. Econ. Res, 40-42; chief indust. resources sect, Off. Strategic Studies, 42-44, econ. subdiv, res. & anal. br, Europe-Africa, 45; lectr, staff officer training prog, Columbia, 45-46; asst. chief statist div, Int. Monetary Fund, D.C, 49-51, chief finance div, res. dept, 52; ECON. ADV, COLUMBIA BROADCASTING SYST, INC, N.Y, 52-; PROF. ECON, MASS. INST. TECH, 56- Dir. classified proj, weapons syst. eval. group, Off. Secy. Defense, 51; commodity studies, President's Mat. Polity Cmn, 51-52. Consult, U.S. Treas. Dept, 45-46; Marshall Plan; U.S. Dept. State; Econ. Coop. Admin, 48; Rand Corp, 49. Econ. Asn; Economet. Soc; Royal Econ. Soc. Business economics; unified social studies; international trade and finance. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

ALEXANDER, PROF. THERON, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

ALEXANDER, PROF. THOMAS BENJAMIN, United States Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ALEXANDER, DR. WILLIAM A(USTIN), JR, b. Rochester, N.Y, Oct. 29, 26. PSYCHOLOGY. B.A, Rochester, 47, M.A, 49; Ph.D.(psychol), Western Reserve, 54. Clin. psychologist, Vet. Admin. Hosp, Dearborn, Mich, 53-56; Ment. Hyg. Clin, Fergus Falls, Minn, 56-58; chief psychologist, Hawthorden State Hosp, Macedonia, Ohio, 58-60; instr. PSYCHOL, Akron, 58-59; asst. clin. prof, Western Reserve, 60-63; ASSOC. PROF, RIPON COL, 63-, CHMN. DEPT, 66- Psychol. Asn; Soc. Proj. Tech. Personality; social psychology; psychopathology. Address: Dept. of Psychology, Ripon College, Ripon, Wis. 54971.

ALEXANDER, PROF. WILLIAM HARRELL, b. Simsboro, La, Mar. 22, 12; m. 37; c. 1. AGRICULTURAL ECONOMICS & MARKETING. B.S, La. State, 42, M.S, 46; Ph.D, Illinois, 61. Asst, La. State, 41-43, res. assoc, 43-45; economist, Off. Price Admin, D.C, 45-46; asst. prof. & asst. economist, LA. STATE, 46-51, assoc. prof, 52-61, PROF. AGR. ECON, 61- Agr. Econ. Asn; Dairy Sci. Asn. Marketing milk and dairy products; state and federal marketing orders. Publ: Influence of selected factors on milk consumption in New Orleans; optimum distribution of producer milk among markets and class uses in Louisiana in 1959; Growth patterns and survival tendencies of firms in the Louisiana dairy industry, La. Agr. Exp. Sta. Bull, 65. Address: Dept. of Agricultural Economics & Agribusiness, Louisiana State University, Baton Rouge, La. 70803.

ALEXANDER, DR. WILLIAM M(AXFIELD), b. Hood River, Ore, Nov. 26, 25; m. 50; c. 3. POLITICAL SCIENCE. B.S, Oregon State, 49, M.S, 51; M.A, Pa. State, 53; fel, Oregon, 55-57, Ph.D.(polit. sci), 62. Instr. POLIT. SCI, Oregon State, 57-58; asst. prof, CALIF. STATE POLYTECH. COL, 58-66, ASSOC. PROF, 66- Fulbright prof, India, 64-65. U.S.N, 44-46. Polit. Sci. Asn. Comparative local governments and decision making in deliberative assemblies assisted by mechanical feedback devices. Publ: Co-auth, California and United States governments, Allyn & Bacon, 67; auth, Government in the villages of modern India, J. Admin. Overseas, 1/68. Address: Dept. of Social Sciences, California State Polytechnic College, San Luis Obispo, Calif. 93401.

ALEXIS, PROF. MARCUS, b. New York, N.Y, Feb. 26, 32; m. 57; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Brooklyn Col, 53; univ. scholar. & Hinman fel, Mich. State, 53-54, M.A, 54; univ. fel, Minnesota, 58-59, Ph.D, 59. Instr. econ, Minnesota, 54-57; asst. prof. econ. & mkt, Macalester Col, 57-60; assoc. prof. mkt, DePaul, 60-63; BUS. ADMIN, ROCHESTER, 62-68, PROF, 68- Vis. scholar. & Ford Found. fel, grad. sch. bus, Harvard, 61-62; vis. assoc. prof, Minnesota, 65; Ford Found. lectr, Atlanta, 67. Econ. Asn; Mkt. Asn; Inst. Mgt. Sci; Economet. Soc. Quantitative and behavioral models of consumer behavior; decision making in industrial organizations under conditions of perfect and imperfect information. Publ: Organization decision making, Prentice, 67; Empirical foundations of marketing, Markham, 68; Changing consumer marketing, J. Mkt. Address: College of Business, University of Rochester, Rochester, N.Y. 14627.

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ALFORD, DR. C(ECIL) WYLIE, b. Ft. Worth, Tex, Feb. 2, 23; m. 44; c. 2. SOCIOLOGY, ANTHROPOLOGY. B.A, Texas Christian, 48, M.A. 49; Ph.D, Duke, 56. Instr. sociol. & anthrop, Wake Forest Col, 50-56, asst. prof, 56-59; assoc. prof, Texas Christian, 59-63; SOCIOLOGIST, U.S. AIR FORCE, PENTAGON, 63- Consult, dept. sociol. & anthrop, Univ. Maryland, 65-U.S.A, 40-42; U.S.A.F, 42-46, Res, 46-, Col. Sociol. Asn; Am. Mus. Natural Hist. Exceptional children, particularly emotionally and socially maladjusted children; motivations for entering teaching field by students in teacher education programs in colleges and universities in Texas. Publ: Chap, In: Race: individual and collective behavior; Contributions of sociology to training and practice in business education, Ft. Worth Bus. Rev. Address: U.S. Air Force, Pentagon, Washington, D.C. 20330.

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ALHADEFF, PROF. DAVID A(LBERT), b. Seattle, Wash, Mar. 22, 23; m. 48. ECONOMICS. A.B, Washington (Seattle), 44; A.M, Harvard, 48, fel, 48-49, Ph.D, 50. From instr. to PROF. BUS. ADMIN, CALIFORNIA, BERKELEY,

49- Monetary economics; market structure of commercial banking in United States. Publ: Monopoly and competition in banking; Recent bank mergers, Quart. J. Econ; Credit controls and financial intermediaries, Am. Econ. Rev. Address: 350 Barrows Hall, University of California, Berkeley, Calif. 94530.

ALI, DR. BADR-EL-DIN, b. Alexandria, Egypt, Apr. 22, 26; m. 66. SOCIOLOGY, CRIMINOLOGY. B.A, American Univ. Cairo, 53; Fulbright scholar, Minnesota, 53-54, M.A, 54; Hagerty scholar, Ohio State, 56-57, Ph.D. (sociol), 58. Officer & asst. supt. admin. work, Prisons Dept, Egypt, 46-53; teaching asst. sociol, Ohio State, 57-58; expert, Nat. Center Social & Criminol. Res, Cairo, 58-62; asst. prof. SOCIOL, Ain Shams, Cairo, 62-65; assoc. prof, Toledo, 65-68; PROF, LOUISVILLE, 68- Summers, U.S. Dept. State for. expert grants, 65, vis. prof, Western Michigan, 67. Sociol. Asn; Int. Soc. Criminol; Int. Prisoners Aid Asn. Research methodology; etiology of crime and juvenile delinquency; prevention of crime and treatment of offenders; correctional institutions and prison community; parole; probation; police science. Publ: Co-auth, Comparative correction, Chandler Pub, 67; auth, Planning for development of the Arab family, Arab J, Fall 66; Comparative study of two types of parole violators, Criminologica, 11/66. Address: Dept. of Sociology, University of Louisville, Louisville, Ky. 40208.

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Agr, Cornell, 53-54, 56-57, 58-59, 60, instr, 59-60; field supvr. mkt, New York Metrop. Milk Mkt. Adminstr, 57; asst. prof. agr. econ, California, Berkeley, 60-63; RESOURCE ECON, CORNELL, 63-65, ASSOC. PROF. & ASSOC. DIR. WATER RESOURCES CENTER, 65- Consult, various state & fed. agencies, 64- U.S.A.F, 54-56, Res, 56-, Capt. Farm Econ. Asn; Regional Sci. Asn; Soc. Int. Develop. Economics of resource use, especially water; effects of national and local government activities including taxation, regulation and planning; planning methodology and organization. Publ: Governmental facilitation of irrigation in New York State; Risk and hypothesis testing & Changes in the use of rural resources, 66, J. Farm Econ. Address: Dept. of Agricultural Economics, Cornell University, Ithaca, N.Y. 14850.

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ALLEGER, DANIEL E(UGENE), b. East Stroudsburg, Pa, Oct. 18, 03; m. 33; c. 1. AGRICULTURAL ECONOMICS. B.S, Pa. State Col, 26, M.S, 43; Syracuse, 41. Banana prod. & plant growth res, United Fruit Co, Honduras & Guatemala, 26-31; rep, Metropolitan Life Ins. Co, 31-41; prod. suprv, Bethlehem Steel Co, Pa, 42-45; ASSOC. AGR. ECONOMIST, EXP. STA, FLORIDA, 45-, agr. economist & chief party, Univ-Int. Coop. Admin. Mission, Costa Rica, 56-60. Mem, Fla. Coun. Aging; Coun. for Inst. Geront; faculty, Latin Am. Lang. & Area Prog. Agr. Econ. Asn; Int. Conf. Agr. Econ; Rural Sociol. Soc. Human resources; rural low-income problems; gerontology; economic development of Latin America. Publ: Ed. & contrib. auth, Fertile lands of friendship, 62 & Social change and aging in the Twentieth Century, 64, ed, Adventures on the mosquito shore, reprint 65, Univ. Florida. Address: Agricultural Experiment Station, University of Florida, Gainesville, Fla. 32601.

ALLELY, PROF. J(OHN) S(TUART) M(ILL), b. Norland, Ont, Dec. 1, 04; m. 34. ECONOMICS. B.A, Queen's (Ont), 29, M.A, 30; A.M, Harvard, 31. Instr, McMaster, 32-34; British Columbia, 35-36; Manitoba, 36-37; Alberta, 37-38; from instr. to ASSOC. PROF. ECON, SASKATCHEWAN, 39- Mem. Can. Inst. Int. Affairs. Can. Army, 41-46. Can. Polit. Sci. Asn. Money, banking and international trade; internal effects of currency depreciations. Address: Dept. of Economics, University of Saskatchewan, Saskatoon, Sask, Can.

ALLEN, PROF. AGNES M(ORGAN), b. Normal, Ill, July 17, 01. GEOGRAPHY. B.Ed, Ill. State Nor. Univ, 24; M.A, Colo. State Teachers Col, 25; scholar & fel, Clark, 32-34, M.A, 34, Ph.D.(geog), 37. Teacher, training sch, Nebr. State Teachers Col, 24-29; asst. prof. geog, Miss. South. Col, 29-32; training sch. instr, NORTHERN ARIZONA, 34-38, asst. prof. sci. & ed, 38-46, prof. sci. & head dept, 47-59, dir. div. sci. & math, 59-62, dir. sch. natural sci, 63-66, dean, Col. arts & sci, 66; PROF. GEOG, 66-, head dept. sci, 34-59. AAAS; Asn. Am. Geog; Coun. Geog. Ed. Regional geography of the Southwest; meteorology; sequence of human occupance in the Middle Rio Verde Valley, Arizona. Address: Dept. of Science, Northern Arizona University, Flagstaff, Ariz. 86001.

ALLEN, DR. BENJAMIN HARRISON, b. Goldsboro, N.C, Apr. 7, 31; m. 52; c. 3. PSYCHOLOGY, SPECIAL EDUCATION. A.B, Wofford Col, 56; M.A, George Peabody Col, 57, Ph.D.(psychol), 62. Sch. psychologist, pub. schs, Tenn, 59-61; consult. ment. health, Bd. Pub. Health, Wilmington, N.C, 61-63; assoc. prof. psychol, E.Carolina Col, 63-65; from asst. prof. to ASSOC. PROF. SPEC. ED, Fla. State, 65-68; GEORGIA, 68- Div. ment. retardation, soc. rehab. serv, Dept. Health, Ed. & Welfare grant, 66-69. U.S.N, 49-53. Psychol. Asn; Asn. Ment. Deficiency; Ed. Res. Asn. Evaluation of student work experience and training in mental retardation facilities. Publ: 1966 student work experience and training, Pub. Health Reports, 68; 1967 student work experience and training, Dept. Spec. Ed, Fla. State Univ, 68. Address: Program for Exceptional Children, University of Georgia, 101 Baldwin Hall, Athens, Ga. 30601.

ALLEN, PROF. CARL W(ENDELL), b. Henderson, Ky, Aug. 26, 16; m. 39; c. 2. ECONOMICS. B.S, Kentucky, 39, M.S, 41; Ph.D, Iowa State Col, 54. Asst. county agent, Kentucky, 39-40, asst, 40-41; res. assoc, Iowa State Col, 46-49; assoc. prof. ECON, VA. POLYTECH, 49-62, PROF, 62- U.S.A.A.F, 41-46. Econ. Asn. Competitive relationships between crops within the year and between years; efficiency in production; economics of irrigation. Publ: Co-auth, Returns from and capital required for soil conservation farming systems, Iowa State Col. Res. Bull. Address: Dept. of Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

ALLEN, DR. CARLOS R(ICHARD), JR, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ALLEN, DR. CHARLES K, b. Boston, Mass, Mar. 26, 38. PSYCHOLOGY. B.A, Ohio State, 60, M.A, 61, Ph.D.(psychol), 63. Nat. Inst. Ment. Health fel, PSYCHOL, Pa. State, 63-65; ASST. PROF, MONTANA, 65- Psychol. Asn. Learning theory; classical conditioning. Publ: Co-auth, Orienting reflex as a function of the interstimulus interval compound of stimuli, & Effect of instructions and UCS intensity on extinction of the conditioned GSR, J. Exp. Psychol, 63; Proactive inhibition in short term memory, J. Verbal Learning & Verbal Behav, 63. Address: Dept. of Psychology, University of Montana, Missoula, Mont. 59801.

ALLEN, PROF. CHAUNCEY NEWELL, b. Richmond Hill, N.Y, Aug. 15, 00; m. 25, 57; c. 2. PSYCHOLOGY. B.S, Dartmouth Col, 24, M.S, 27; Ph.D. (psychol), Columbia, 31. Direct-by-mail advertiser, Am. Book Co, N.Y, 24-25; instr. PSYCHOL, DARTMOUTH COL, 25-30, asst. prof, 31-39, PROF, 40- Consult, State Dept. Pub. Welfare, N.H. Cath. Charities & N.H. Schs. Psychol. Asn; Acad. Relig. & Ment. Health. Child and abnormal psychology; individual differences and developmental psychology; industrial personnel. Publ: Individual differences in delayed reactions of infants, Arch. Psychol. Address: 2 Brewster Rd, Hanover, N.H. 03775.

ALLEN, PROF. CLARK LEE, b. Cameron, Mo, Sept. 1, 10; m. 38. ECONOMICS. A.B, McKendree Col, 32; M.A, Washington (St. Louis), 38; Ph.D. (econ), Duke, 42. Teacher, high schs, Ill, 32-39; asst. prof. ECON, Duke, 45-46, assoc. prof, 47-49; Northwestern, 46-47; PROF. & HEAD DEPT, Fla. State, 49-54; Agr. & Mech. Col, Tex, 54-56; N.C. State Col, 56-58; SOUTHERN ILLINOIS, 58- U.S.A, 45-46. Am. Econ. Asn; Royal Econ. Soc. Price theory; international and welfare economics. Publ: Elementary mathematics of price theory; co-auth, Foreign trade and finance; auth, Framework of price theory, Wadsworth, 67. Address: 103 S. Parrish Lane, Carbondale, Ill. 62901.

ALLEN, PROF. DANIEL S(TETSON), Polit. Sci, Hist, see 10th ed, Soc. & Behav. Vols.

ALLEN, DR. DEAN A(USTIN), b. Montclair, N.J, Nov. 30, 25; m. 48; c. 3. PSYCHOLOGY. B.A, Princeton, 49; Ph.D, California, 55. Instr. PSYCHOL, Princeton, 53-56, asst. dir. student counseling, 55-56; asst. prof. & dean students, Robert Col, Turkey, 56-59; asst. prof. & dir. student counseling, Bowdoin Col, 59-62; PRIN. PSYCHOLOGIST, STUDENT HEALTH SERV, MASSACHUSETTS, 62- U.S.N, 44-46. Psychol. Asn. Educational measurement and counseling; teaching psychology. Publ: A review of the step writing test, Personnel & Guid. J, 11/63; co-auth, Outcome of psychotherapy in a university health service, 2/65 & Withdrawal from college for severe psychiatric disturbance, 4/66, J.Am. Col. Health Asn. Address: Student Health Service, University of Massachusetts, Amherst, Mass. 01002.

ALLEN, DR. DONALD E(MERSON), b. Columbus, Ohio, June 9, 17; m. 41; c. 2. SOCIOLOGY. B.A, Ohio State, 39, M.A, 40; Ph.D.(sociol), Missouri, 60. Assoc. prof. mil. sci, Missouri, 52-56; dir. intel, U.S. Army Sch, Europe, 56-60; ASSOC. PROF. SOCIOL, South Florida, 61-67; OKLA. STATE, 67- Consult, Vols. in Serv. Am, 64-65; Foster Grand Parents Prog. & Oper. Headstart, 65-66. U.S.A, 40-60, Lt. Col. Sociol. Asn. Social psychology; methodology; sociology of small groups; communication. Publ: Co-auth, Social behavior, McGraw, 67; co-auth, Juvenile delinquency: alienation, hedonism and life vision, J. Criminal Law, Criminol. & Police Sci, 67; co-auth, Juvenile delinquency: family affects, religion and income, Soc. Forces, 67. Address: Dept. of Sociology, Oklahoma State University, Stillwater, Okla. 74075.

ALLEN, DR. DORIS TWITCHELL, b. Old Town, Maine, Oct. 8, 01; m. 35; c. 1. PSYCHOLOGY. A.B, Maine, 23, M.A, 26, hon. Sc.D, 65; Ph.D.(psychol), Michigan, 30. Res, psychol. inst, Berlin, 31-32; instr. child psychol. & dir. ed. field lab, Child Ed. Found, New York, 32-35; psychologist, Children's Hosp, Cincinnati, Ohio, 36-48, consult, psychologist, 48-55; assoc. prof. PSYCHOL, CINCINNATI, 49-62, ADJ. PROF, 62- Attend. psychologist, Children's Convalescent Home, Cincinnati, 36-48; chief psychologist, Longview State Hosp, 44-57; pres, Children's Int. Summer Villages, Inc, 50-65, mem. int. bd. dirs, 51-65, U.S. bd. trustees & hon. counsellor, 51- Private consult, 37- Mem, White House Conf. People to People Prog, 56; nat. exec. bd, Psychologists Interested in Adv. Psychother, 61-63. Gold medal, work in int. rels, City of Stockholm, Sweden, 53; chevalier, Palmes Academiques, France, 61. Fel. AAAS; fel. Psychol. Asn: fel. Soc. Group Psychother. & Psychodrama; Soc. Appl. Anthrop: Soc. Proj. Tech: Inter-Am. Soc. Psychol; fel. Int. Coun. Psychol.(secy-treas, 49-52, pres. elect, 67: award, 62); Int. Asn. Appl. Psychol. Projective techniques: group psychotherapy; international relations. Publ: Growth of attitudes favorable to peace: Twitchell-Allen three dimensional personality test & rev. guide: co-auth, Handbook for children's international summer villages. Address: 2447 Clybourn Place, Cincinnati, Ohio 45219.

ALLEN, DR. EDMUND E, b. Oneida, N.Y, Aug. 2, 19; m: c. 5. SOCIAL SCIENCE. B.S, Norwich, 41; M.Ed, Birmingham-South. Col. 57; Ed.D. Florida. 64. Assoc. prof, Rensselear Polytech, 49-51: res. asst. SOUTH FLORIDA. 64, counsr, 64, counsr. & asst. prof. soc. sci, 64, clin. counsr. 65. ASSOC. PROF. SOC. SCI. & DIR. DEVELOP. CENTER. 66- Prin. investr. res. grant, 67. Exec. chmn, Univ. & Col. Counseling Center Dirs. 68. U.S. Marine Corps, 41-61, Lt. Col. Personnel & Guid. Asn: Soc. Civil Eng. Geriatric perceptual decrements; hostility in the stutterer; personality variables: video therapy confrontations. Publ: Co-auth, Factors in religious attitudes of older adolescents, J. Soc. Psychol, 61. Address: ADM 172, University of South Florida, Tampa, Fla. 33620.

ALLEN, DR. EDWARD J(ONES), b. Canon City, Colo. July 30, 98. ECONOMICS. A.B, Colo. Col, 21; A.M, Columbia, 23, Ph.D. 36. Teacher, high sch. Idaho, 21-22; asst. econ, Columbia, 22-24, officer instr. univ. exten, 24-27, acting dir, Seth Low Jr. Col, 28-31, dir, 31-36; prof. econ. & dean col. arts & sci, Maine, 36-41; Denver, 41-49; dean, Earlham Col. 49-51; chmn. Eleventh Regional Wage Stabilization Bd, Colo, 51-53; prfnl. arbitrator, 53-55; assoc. dir, Joint Coun. Econ. Ed, 55-59; prof. econ, State Univ. N.Y. Col. Plattsburgh, 59-66; RETIRED. Instr, Am. Inst. Banking, 22-36, adminstr. in charge courses econ, 27-36; instr, City Col. New York, 23-27; Cooper Union, 24-28. Dir. people's inst, United Neighborhood Guild, N.Y, 33-36; acting price officer, Off. Price Admin, Colo, 42, regional consult, 42-43; exec. dir, Econ. Ed. Coun, North. N.Y, 59-; Croft Pub. Co. consult. Lansing Community Col, 67. Mem. boys work cmn, nat. coun, YMCA, 33-66; sci. adv. coun, Licensed Beverage Industs, Inc, 58- U.S.A, 42-46. Econ. Asn; Acad. Arbit; Asn. Evolutionary Econ. Publ: The second united order among the Mormons. Address: Keeseville, N.Y. 12944.

ALLEN, DR. EDWARD L(AWRENCE), Econ, see 10th ed, Soc. & Behav. Vols.

ALLEN, PROF. ETHAN P(UTNAM), b. Chehalis, Wash, May 17, 07; m. 37; c. 2. POLITICAL SCIENCE. A.B, Colorado, 29; scholar, Iowa, 29-30, fel. & A.M, 30, Ph.D.(polit. sci), 33. Asst, Iowa, 30-31, instr. polit. sci, 33-36, asst. prof, 36-40, assoc. prof, 40-45; PROF. POLIT. SCI. & CHMN. DEPT, KANSAS, 46-, DIR, GOVT. RES. CENTER, 52-, bur. govt. res, 45-52, mem. univ. planning coun, 52-55. Prin. agr. economist, bur. agr. econ, U.S. Dept. Agr, 40-41; lectr, American Univ, 42-45; dir, State Citizenship Clearing House, Kans, 53-65. Res. consult, State Juvenile Code Cmn, Kans, 47-49; Gov. Cmn. Admin. Orgn, 49-50; Gov. Cmt. Fed-State Rel, 53-54; Gov. Cmn. Taxation & Revenue, 54-56; Gov. Cmn. Constitutional Rev, 58-66; mem. adv. cmt, State Indust. Develop. Cmn, 61-64. Polit. Sci. Asn; Soc. Pub. Admin; Govt. Res. Asn; Int. City Mgr. Asn; Acad. Polit. & Soc. Sci. Publ: Man's adventure in government; co-auth, What about survey courses & Introduction to politics. Address: Dept. of Political Science, 504 Blake Hall, University of Kansas, Lawrence, Kans. 66044.

ALLEN, PROF. FRANCIS R(OBBINS), b. Hartford, Conn, Nov. 4, 08; m. 42. SOCIOLOGY. A.B, Antioch Col, 31; A.M, Columbia, 36; Chicago, 47; Ph.D, North Carolina, 47. Instr. SOCIOL, U.S. Army Univ, Italy, 45; from instr. to asst. prof, Alabama, 46-48; assoc. prof, FLA. STATE, 48-59, PROF, 59- Sociol. Asn; Anthrop. Asn; Acad. Polit. & Soc. Sci. Sociological subjects, especially in areas of technology and society; population and social control; social change. Publ: Co-auth, Analysis of social problems; ed. & co-auth, Technology and social change. Address: Dept. of Sociology, Florida State University, Tallahassee, Fla. 32306.

ALLEN, DR. GEORGE HOWARD, b. Boston, Mass, June 1, 14; m. 40; c. 2. ECONOMICS. B.S, Massachusetts, 36; M.B.A, Harvard, 38; hon. LL.D, Massachusetts, 67. Asst. to pres, Nat. Theatre Supply Co, 38-40; res. mgr, Radio Sta. WOR, 41, asst. dir. promotion & res, 42-43; gen. mgr, security bd, Coop. Anal. Broadcasting, 44-46; sales mgr, N.Y. Herald Tribune, 46, promotion mgr, 47-50; dir. sales promotion, McCall's Mag, 50-57, asst. pub. & gen. mgr, 57-60; spec. asst. to pres, Meredith Pub. Co, 60-61, v.pres, 61-66, gen. mgr, mag. pub. div, 62-66; V.PRES, MAG. DIV, FAWCETT PUB. INC, 66- Radio consult, U.S. Treas. Dept, 43-45; v.pres, Mass. Mkt. Pub. Inc, 53-54, pres, 54-55, dir. 53-55; pub, Better Homes & Gardens Successful Farming Mag, 64-66, mem. bd. dirs, 65-66. Chmn, 20th Nat. Bus. Conf, Harvard, 50; mem. bd. dirs, Advert. Res. Found; ed. cmt, U.S. Chamber Commerce; grad. sch. adv. cmt. mkt, Harvard; bd. dir, Youth for Understanding. Gold Medal award, Freedoms Found, 56-59. Mkt. Asn. (pres, 47); Statist. Asn; Mag. Pub. Asn; Pub. Rels. Soc. Asn; Sales Promotion Exec. Asn. Publ: Individual initiative in business; Radio listening in U.S. and Canada; Promotion is a state of mind. Address: 112 Pear Tree Point Rd, Darien, Conn. 06820.

ALLEN, HARLAND H(ILL), b. Loyalton, S.Dak, Dec. 9, 88; m. 27; c. 2. ECONOMICS. FINANCE. A.B, Colo. State Col, 16, A.M, 17; fel, Chicago, 19-22; LL.D, Dakota Wesleyan, 60; L.H.D, Roosevelt, 67. Prof. econ, N.Tex. Teachers Col, 17-19; instr. finance, Illinois, 21-22; asst. econ. & pub. finance, Chicago, 22-23; dean sch. commerce, Okla. State Col, 23-24; economist, Halsey, Stuart & Co, Inc, 27-29; Foreman State Nat. Bank, 29-31; from pres. to CHMN. BD, GROWTH INDUST. SHARES, INC, 46- Dean sch. commerce, Roosevelt, 47-49, chmn. bd, 59-63. Investment consult, 32-U.S.A, 18. Econ. Asn. National and international economic and political affairs; investments; mutual funds; interest rates. Publ: Whither interest rates?; columnist, Your money problems, 24-32; auth, Harland Allen economic letter, 32-44. Address: 431 S. Alvernon Way, Tucson, Ariz. 85711.

ALLEN, PROF. H(ARRY) K(ENNETH), b. Allerton, Ill, July 24, 97. ECONOMICS. B.S, Illinois, 20, M.S, 33, Ph.D, 36. Asst. econ. & dir. res, bur. agr. econ, ILLINOIS, 31-35, asst. prof. ECON, 37-41, dir. bur. bus. res, 41-48, prof, 45-65, chmn. dept, 52-57, EMER. PROF, 65- Econ. Asn; Polit. Sci. Asn; Nat. Tax Asn.(pres, 58). Principles of public finance; costs and services of local government in selected Illinois counties; law and contemporary problems. Address: 1501 W. University Ave, Champaign, Ill. 61821.

ALLEN, DR. HOWARD W, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ALLEN, DR. IRVING LEWIS, b. Asheville, N.C, Feb. 28, 31. SOCIOLOGY. B.A, Morris Harvey Col, 59; M.A, Iowa, 61, Ph.D.(sociol), 65. Dist. sales correspondent, indust. mach. div, Allis-Chalmers Mfg. Co, 52-60; ASST. PROF. SOCIOL, CONNECTICUT, 63- Co-dir. on res. contract, res. br, Off. Ed. & Univ. Connecticut, 65-67. Sociol. Asn. Urban sociology and metropolitan community; survey design and analysis; mass communication and public opinion. Publ: Co-auth, Location of headquarters of national associations, Admin. Sci. Quart, 63; auth, Detecting respondents who fake and confuse information about question areas on surveys, J. Appl. Psychol, 66; co-auth, Precoded versus open-ended items and childrens' reports of fathers' occupation, Sociol. Ed, 67. Address: Dept. of Sociology, University of Connecticut, Storrs, Conn. 06268.

ALLEN, PROF. JACK, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ALLEN, PROF. JESSE B(ISHOP), b. Trixie, Ky, Nov. 11, 14; m. 44; c. 7. MARKETING, ECONOMICS. A.B, Berea Col, 41; M.S, Indiana, 42; Ph.D, Chicago, 52. Asst. prof. mkt, DePaul, 46-47; Miami (Ohio), 47-48; Washburn, 48-49; indust. mkt, Iowa State, 49-52; MKT, Long Beach State Col, 52-54, assoc. prof, 54-58; PROF, CALIF. STATE COL. LOS ANGELES, 58-, COORDINATOR RES. PROGS. & DIR. BUR. RES, 61- Summers, lectr, Kans. State Col, 49, Ford Found. fels, 60, 62. U.S.N.R, 42-, Lt. Comdr. Applications of mathematics and statistics to marketing problems, relating to price, consumer preference and marketing efficiency. Publ: Methods of selecting and training salesmen in the Miami Valley, Miami Bus. Rev; Current practices in selecting industrial salesmen, J. Mkt. Address: Dept. of Marketing, California State College at Los Angeles, Los Angeles, Calif. 90032.

ALLEN, JOHN ELDRIDGE, b. Morehead City, N.C, Sept. 11, 11; m. 49; c. 1. SOCIAL SCIENCE. B.B.A, Miami (Fla), 34; M.A, George Washington, 37; American Univ, 37. Info. aide, Nat. Recovery Admin, 35; commodity stock analyst, U.S. Dept. Treasury, 35-37, ed. asst, 38-39; records asst, U.S. Dept. Agr, 40-41; soc. res. supvr, Fed. Works Agency, 41-42; analyst, U.S. Depts. Army & Defense, 48-57; asst. exec. dir, U.S. Lincoln Sesquicentennial Cmn, 58-59; writer & researcher, Lincoln Sesquicentennial Tributes, 59-61; instr. soc. sci, MIAMI (FLA), 61-62, HOUSING ASST, 63- U.S.N, 42-46, Lt. Comdr. Econ. Asn. Higher educational research; national and international business trends; United States congressional reform. Publ: Aspects of Far East history, 1842-1937; Commentary on reorganizing U.S. Congress, U.S. Senate Rules Cmt. Hearings, 6/27-28/63; Imbalance on Congressional committee staffs, U.S. Congressional Record, 4/8/64. Address: 5520 S.W. 78th St, South Miami, Fla. 33143.

ALLEN, DEAN JOHN H(ORTON), b. Homer, La, Nov. 9, 23; m. 43. SOCIOLOGY. B.A, Southeast. La. Col, 49; M.A, La. State, 51; Ph.D, Pa. State, 55. Asst. prof. SOCIOL, SOUTHERN MISSISSIPPI, 53-55, ASSOC. PROF, 55-, DEAN UNIV, 61-, dean sch. arts & sci, 57-61. U.S.A.A.F, 42-47. Sociol. Asn; Rural Sociol. Soc; Am. Studies Asn. Rural sociology; population. Publ: Pulling up stakes and breaking apron strings. Address: 1206 Carter Dr, Hattiesburg, Miss. 39401.

ALLEN, PROF. JOSEPH PERCIVAL, III, b. Greencastle, Ind, Dec. 5, 09; m. 33; c. 2. ACCOUNTING, MARKETING. A.B, DePauw, 30; M.B.A, Harvard, 32. Owner & operator book store, Allen's, 34-42; group supvr. acct, E.I. du Pont de Nemours & Co, 42-45; cost supvr. trainee, R.R. Donnelley & Sons Co, 45-48; pub. acct, 48-58; assoc. prof. acct, DEPAUW, 58-62, PROF. ECON, 62-, Dir, DePauw Semester Abroad, Freiburg, Germany, 65. Am. Acct. Asn; Inst. Cert. Pub. Acct. Accounting teaching methods, especially use of visual aids. Address: Dept. of Economics, DePauw University, Greencastle, Ind. 46135.

ALLEN, JULIUS W(ILLFRIED), b. Ann Arbor, Mich, July 5, 16; m. 50; c. 3. ECONOMICS. B.S, Iowa State Col, 37; M.A, American Univ, 49; Hopkins, 53-55. Teacher, pub. schs, Iowa, 37-39; indust. econ. analyst, ECON. DIV, LEGIS. REFERENCE SERV, LIBRARY CONG, 41-61, CHIEF, 61-, mem. mission to Germany, 46. Econ. Asn. Economic history; government and business relationships; subsidies; industrial organization; small business. Address: Legislative Reference Service, Library of Congress, Washington, D.C. 20540.

ALLEN, DR. LEONARD W(ILLIAM), b. New York, N.Y, Feb. 23, 30; m. 54. PSYCHOLOGY. B.A, Brooklyn Col, 52; M.A, City Col. New York, 53; fel, Denver, 57-58, Ph.D.(clin. psychol), 58. Intern clin. psychol, Lincoln State Sch, Ill, 53; Elgin State Hosp, 53-54; staff psychologist, Evansville State Hosp, Ind, 54-55; D.C. Gen. Hosp, 58-62, assoc. chief psychologist, 62-64; CHIEF BUR. MENT. RETARDATION, D.C. DEPT. PUB. HEALTH, 64- Instr, sch. med, Georgetown, 58- Consult, D.C. Dept. Voc. Rehab, 59-63. Dipl, Am. Bd. Exam. Prfnl. Psychol, 66. Psychol. Asn; fel. Asn. Ment. Deficiency. Mental retardation; culture and psychopathology; administration and health services. Address: 801 N. Capitol St, Room 441, Washington, D.C. 20002.

ALLEN, DR. LUTHER A(LFRED), b. Plattsburgh, N.Y, Jan. 20, 21. POLITICAL SCIENCE. A.B, Williams Col, 41; M.A, Iowa, 42; fel. from Chicago, Paris, 49-50; Ph.D.(int. rels), Chicago, 55. Instr. polit. sci, Delaware, 51-52; GOVT, MASSACHUSETTS, 52-56, asst. prof, 56-65, ASSOC. PROF, 65-, FACULTY RES, ORCHARD HILL RESIDENTIAL COL, 64- Vis. instr, Amherst Col, 57; Smith-Mundt vis. prof, Univ. Saigon, 60-61. Consult, Agency Int. Develop, Saigon, 64. U.S.A, 43-46. Polit. Sci. Asn; Am. Soc. Int. Law. French and Vietnamese politics; European government; international relations; Indo-China. Publ: The French Left and Soviet Russia; The renovation that failed: Mendes-France and the Radical Party; co-auth, A Vietnamese district chief in action. Address: Noah Webster House, University of Massachusetts, Amherst, Mass. 01002.

ALLEN, PROF. MARK KNIGHT, b. Provo, Utah, Oct. 22, 05; m. 34; c. 4. PSYCHOLOGY. A.B, Brigham Young, 26; M.A, Stanford, 35, Ph.D, 55. Asst. supt, State Training Sch, Utah, 32-46; from assoc. prof. to PROF. PSYCHOL, BRIGHAM YOUNG, 46-, chmn. dept, 55-61. Fulbright prof, Ankara, 57-58. Clin. consult, Utah State Training Sch, 49- AAAS; Psychol. Asn; Asn. Ment. Deficiency. Personality and cultural factors related to religious authoritarianism. Publ: Co-auth, Attempt to condition finger reactions based on motor point stimulation, J. Gen. Psychol; Comparison between test scores on the original and revised Stanford-Binet intelligence scales administered to a group of retarded and mentally deficient subjects, Am. J. Ment. Deficiency. Address: Dept. of Psychology, Brigham Young University, Provo, Utah 84601.

ALLEN, PROF. PHILIP J(AMES), b. U.S, Apr. 14, 14; m. 40; c. 2. SOCIOLOGY. A.B, Ohio Northern, 37; A.M, Northwestern, 40; B.D, Garrett Biblical Inst.(Ill), 40; Ph.D, American Univ, 54. Asst. prof. SOCIOL, Chattanooga, 46-47; PROF. & CHMN. DEPT, MARY WASHINGTON COL, VIRGINIA, 47- Vis. prof, Virginia, 65-66. Ed, Am. Sociol. Forum. U.S.A.A.F, 43-46, Capt. Sociol. Asn; Soc. Study Social Probs; Pop. Asn; Nat. Coun. Family Rels; Acad. Polit. & Soc. Sci; Am. Acad. Arts & Sci. Childhood backgrounds of success in a profession. Publ: Ed, Pitirim A. Sorokin in review, Duke, 63; auth, Growth of strata in early organizational development, Drama of Life Series. Address: Dept. of Sociology, Mary Washington College, Fredericksburg, Va. 22401.

ALLEN, PROF. ROBERT F(RANCES), b. New York, N.Y, Dec. 26, 28; m. 55; c. 2. CLINICAL PSYCHOLOGY. B.Ed, State Univ. N.Y. Col. Ed. Plattsburg, 49; M.A, N.Y. Univ, 51, Ph.D.(psychol, human rel), 57; Columbia, 58; dipl, Inst. Psychother, 60. Instr, pub. schs, N.Y, 49-53; res. dir, fund adv. ed, Ford Found. & New York Bd. Ed, 53-54; dean of instr, Monmouth Col. (N.J), 55-57; PROF. PSYCHOL, NEWARK STATE COL, 57-, DIR. GRAD. STUDIES, 60-; CHMN. BD, SCI. RESOURCES INC, 65- From intern to psychologist, Nat. Hosp, 50-54; dir. psychol. serv, pub. sch, N.Y, 54-57; lectr, City Col. New York; dir. res, div. juvenile delinquency & youth offenses, Dept. Health, Ed. & Welfare, 64-67. Consult, Ment. Health Clin, Oceanside, N.Y, 56-57; pub. sch, N.J, 60-61. U.S.M.C.R, 51-55. Psychol. Asn; Acad. Polit. & Soc. Sci. Psychoanalytic theory and its applications in clinical and educational settings. Publ: Social integration and the English language development of Puerto Rican children; Authoritarianism as manifested in the formal education of children; co-auth, From delinquency to freedom, Dept. Health, Ed. & Welfare, 66. Address: Dept. of Psychology, Newark State College, Union, N.J. 07083.

ALLEN, PROF. ROBERT LORING, b. Trenton, Mo, July 10, 21; m. 49; c. 2. ECONOMICS. B.A, Redlands, 47; fel, Harvard, 49-51, M.A, 50, Ph.D.(econ), 53. Res. Economist, Cent. Intel. Agency, 51-56; assoc. prof. ECON, Virginia, 56-59; OREGON, 59-63, PROF, 63- Lectr, Maryland, 54-56; vis. prof, faculty econ, Univ. Los Andes, Venezuela, 63-64, 65, 66 & 67-; Fulbright lectr, Univ. Salamanca, 66-67. Econ. Asn; Economet. Soc; Regional Sci. Asn. General equilibrium quantitative analysis; international economics; planning processes; regional and location economics; Latin American economic affairs. Publ: Soviet influence in Latin America; Soviet economic warfare; Economic policies toward less developed countries. Address: Dept. of Economics, University of Oregon, Eugene, Ore. 97403.

ALLEN, PROF. ROBERT MORRIS, b. Brooklyn, N.Y, Oct. 13, 09; m. 35; c. 2. PSYCHOLOGY. B.S, N.Y. Univ, 32, Ph.D.(clin. psychol), 38; M.A, Texas, 33; Columbia, 38. Psychol. extern, Greenwich Speech Clin, N.Y, 31-32, 33-34; consult. clin. psychologist, 38-43; admin. asst. to supt. in charge psychol. clin, N.J. Training Sch, 45; chief clin. psychologist, Vet. Admin. Hosp, 45-47; PROF. PSYCHOL, MIAMI (FLA), 47- Lectr. & instr, N.Y. Univ. & Rutgers, 45-47. Consult, United Cerebral Palsy Clin, Miami, 53- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 42-45. Soc. Proj. Tech. & Personality Assessment; fel Psychol. Asn; Acad. Psychother. Brain disease and brain damage; Rorschach test interpretation; learning theory. Publ: Psychological evaluation of the cerebral palsied person; Elements of Rorschach interpretation; Personality assessment procedures. Address: Dept. of Psychology, University of Miami, Coral Gables, Fla. 33124.

ALLEN, PROF. RUTH A(LICE), b. Cameron, Tex, July 28, 89. ECONOMICS. A.B, Texas, 21, A.M, 23; Ph.D, Chicago, 33. Instr. ECON, TEXAS, 23-28, asst. prof, 28-36, assoc. prof, 36-41, prof, 41-59, EMER. PROF, 59- Supvr. cost of living studies, southeast. region, U.S. Bur. Labor Statist, 34-35. Econ. Asn; Econ. Hist. Asn. Labor and economic history; standards of living. Publ: The history of organized labor in Texas; The great southwest strike; The East Texas lumber worker. Address: 1907 Forest Trail, Austin, Tex. 78703.

ALLEN, DR. SARA A, b. Chicago, Ill, June 16, 34; div; c. 1. PSYCHOLOGY. B.A, Knox Col, 56; M.A, Minnesota, 63, Nat. Inst. Ment. Health fel, 63-64, Ph.D.(child psychol), 64. ASST. PROF. PSYCHOL, Denver, 65-68; CHICO STATE COL, 68- Soc. Sci. Res. Coun. summer fel, Inst. Cognitive Develop, Minnesota, 64 & Nat. Inst. Child Health & Human Develop. fel, 64-65. Consult, hosp. improv. proj, Ft. Logan Ment. Health Center & cardiac surg. proj, Nat. Jewish Hosp, 68- Psychol. Asn; Soc. Res. Child Develop. Social learning and motivation in children; reinforcement effects on children's performance. Publ: The effects of verbal reinforcement on children's performance as a function of the type of task, 66 & Children's performance as a function of race of experimenter, race of subject and verbal reinforcement, 66, J. Exp. Child Psychol; co-auth, Variables associated with adults' effectiveness as reinforcing agents, J. Personality, 67. Address: Dept. of Psychology, Chico State College, Chico, Calif. 95927.

ALLEN, DR. STEPHEN G(ATCHELL), b. Port Arthur, Tex, July 17, 25; m. 57; c. 2. STATISTICS, ECONOMICS. M.A, Chicago, 50; Ph.D.(statist), Stanford, 54. Res. assoc. statist, appl. math. & statist. lab, Stanford, 51-53; asst. prof, Minnesota, 53-54; res. statistician, STANFORD RES. INST, 54-57, SR. OPERS. ANALYST, 57- Fiscal economist, U.S. Dept. Treas, 51-52. Consult, Cowles Cmn. Res. Econ, Univ. Chicago, 50-55; Archer-Daniels, Midland Co, Minn, 54. U.S.N.R, 43-46, Lt.(jg). Design and implementation of models for economic forecasting, management decision making, and hypothesis testing, particularly in classification problems. Publ: A class of minimax tests for one-sided composite hypothesis, Ann. Math. Statist, 53; Inventory fluctuations in flaxseed and linseed oil, Econometria, 54; A redistribution model with set-up charge, Mgt. Sci, 61. Address: Stanford Research Institute, 333 Ravenswood, Ave, Menlo Park, Calif. 94025.

ALLEN, PROF. TERRENCE M(cKINLEY), b. Junction City, Ore, Apr. 21, 26; m. 50; c. 5. PSYCHOLOGY. B.S, Washington (Seattle), 48; M.S, Purdue, 52, Ph.D.(psychol), 54. Jr. engr. design automatic mach, L & M Mach. Corp, 50-51; dir. naval res. proj, dept. psychol, Purdue, 53-54; res. psychologist hwy. res, Virginia, 54-57; asst. prof. PSYCHOL, MICH. STATE, 57-61, assoc. prof, 61-67, PROF, 67- Mem. Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun. Psychol. Asn; Statist. Asn; Inst. Math. Statist. Applied experimental psychology; industrial psychology; applied statistics. Publ: Highway sign brightness and legibility & Night legibility of highway signs, Hwy. Res. Bd. Bull; Effects of the cancer scares, Journalism Quart. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

ALLEN, DR. THOMAS JOHN, b. Newark, N.J, Aug. 20, 31; m. 61; c. 2. MANAGEMENT, ORGANIZATIONAL PSYCHOLOGY. B.S, Upsala Col, 54; S.M, Mass. Inst. Tech, 63, Ph.D.(mgt), 66. Design engr, Tung-Sol Elec. Co, Inc, 56-57; res. engr, Boeing Co, 57-63; res. assoc. ORGN. PSYCHOL, MASS. INST. TECH, 63-66; ASST. PROF, 66- Consult, Bolt, Beranek & Newman, Inc, 66-; Rand Corp, 66-; Digital Equip. Corp, 67- U.S.M.C, 54-56, Sgt. AAAS; Inst. Elec. & Electronics Eng. Flow of information in science and technology; psychology of the problem solving process in science and technology. Publ: Co-auth, Positive and negative biasing sets; The effect of previous experience on research performance, 12/64 and auth, Problem solving process in engineering design, 6/66, Inst. Elec. & Electronic Eng. Transactions Eng. Mgt; co-auth, Communication patterns in applied technology, Am. Psychologist, 11/66. Address: Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

ALLEN, DR. VERNON LESLEY, b. Lineville, Ala, June 6, 33; m. 56; c. 2. PSYCHOLOGY. A.B, Alabama, 55; Link fel, Tufts, 57-58, M.S, 58; Nat. Inst. Ment. Health fel, California, Berkeley, 61-62, Ph.D.(conformity), 62. Nat. Inst. Ment. Health res. fel, Stanford, 62-63; asst. prof. PSYCHOL, WISCONSIN, 63-66, ASSOC. PROF, 66- Qm.C, 55-57, 1st Lt. Psychol. Asn; Sociol. Asn; Acad. Polit. & Soc. Sci. Conformity; role theory; social class; attitudes. Publ: Situational factors in conformity, In: Advances in experimental social psychology, Academic, 55; Role theory and consistency theory, In: Consistency theories, Rand McNally, 68; co-auth, Role theory, In: Handbook of social psychology, Addison-Wesley, 68. Address: Dept. of Psychology, University of Wisconsin, Charter at Johnson, Madison, Wis. 53706.

ALLEN, PROF. WARREN G(EORGE), b. Deering, N.Dak, Oct. 10, 21; m. 52; c. 2. POLITICAL SCIENCE, EDUCATION. B.A, Minot State Col, 43; M.S, North Dakota, 52, Ph.D.(ed, polit. sci), 57; hon. D.H.L, Sioux Empire Col, 66. Prin, high sch, N.Dak, 46-47, supt, pub. schs, 47-51; instr, pub. schs, Calif, 51-57; PROF. ED. & PSYCHOL. & CHMN. DIV, MINOT STATE COL, 57- Rep. N.Dak. State Legis, 67. Med.C, U.S.A, Maj. Nat. Coun. Measurement in Ed; Nat. Soc. Study Ed. Address: Division of Education & Psychology, Minot State College, Minot, N.Dak. 58701.

ALLEN, DR. WILLIAM HOMER, b. Chicago, Ill, June 9, 14; m. 47; c. 1. EDUCATION. A.B, California, Los Angeles, 41, Ed.D, 51; M.A, Claremont Men's Col, 48. Asst. prof. ed, San Diego State Col, 50-53; Wisconsin, 53-55; assoc. prof. cinema & ed, Southern California, 55-56; assoc. soc. scientist, Rand Corp, 56-58; adv. commun, Syst. Develop. Corp, 58-60; DIR. CINEMA RES. & ADJ. PROF. CINEMA & ED, SOUTHERN CALIFORNIA, 60- Consult, Ed. Media Br, U.S. Dept. Health, Ed. & Welfare, 48-60; State Dept. Ed, Calif, 59- Ed, Audiovisual Commun. Rev. Pres. dept. audiovisual instr, Nat. Ed. Asn, 63-64. Psychol. Asn; Ed. Res. Asn. Educational communication media design and use. Publ: Audio-visual communication, In: Encyclopedia of educational research. Address: Dept. of Instructional Technology, University of Southern California, Los Angeles, Calif. 90007.

ALLEN, PROF. WILLIAM R(ICHARD), b. Eldorado, Ill, Apr. 3, 24; m. 48; c. 2. ECONOMICS. A.B, Cornell Col, 48; Soc. Sci. Res. Coun. fel, Duke, 50-51, Ph.D.(econ), 53. Instr. ECON, Washington (St. Louis), 51-52; lectr, CALIFORNIA, LOS ANGELES, 52-53, asst. prof, 53-58, assoc. prof, 58-63, PROF, 63- Ford Found. res. fel, 58-59; Nat. Sci. Found. res. grant, 65-66; summers, vis. instr, Northwestern, 52, economist, Dept. Commerce, 62, vis. prof, Wisconsin, 64, Michigan, 65. Summer mem. Ford Found. Conf. Sociol. Knowledge, 53; Merrill Center Conf. Econ. Develop, 55; Soc. Sci. Res. Coun. Conf. Diplomatic Hist, 56. Auxiliary res. award, Soc. Sci. Res. Coun, 62- U.S.A.A.F, 43-46, 2nd Lt. Econ. Asn. Theory and history of international economics, especially trade, finance and development; history of economic thought. Publ: co-auth, Foreign trade and finance: essays in international economic equilibrium and adjustment; auth, The international monetary fund and balance of payments adjustment, Oxford Econ. Papers; Cordell Hull and the defense of the trade agreements program, In: Isolation and security. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

ALLEN, DR. WILLIAM SHERIDAN, Mod. German Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ALLENSWORTH, DR. DON T, b. Canton, Ohio, Oct. 14, 34; m. 60; c. 1. POLITICAL SCIENCE. B.A, Ohio Wesleyan, 56; M.B.A, Ohio State, 57; M.A, American Univ, 60, Ph.D.(govt), 64. Budget analyst, state govt. budgeting, Ohio, 57-58; exec. orgn. anal, Gov. Cmt. Reorgn. State Govt, Ohio, 59-60; admin. asst. urban planning, North. Va. Regional Planning Cmn, 63-64; vis. lectr. polit. sci. & local govt. & fel, Pennsylvania, 65; asst. prof. POLIT. SCI. & fel, 65-66; ASST. PROF, GEORGE WASHINGTON, 66- Consult. Nat. Capital Planning Cmn, 62-63; Nat. Capital Regional Planning Coun, 64; Nat. League Cities, 67-68; Econ. Systs, Corp, 67-68. U.S.A.F, 61-62. Polit. Sci. Asn. Urban planning and urban affairs; politics of planning; impact of values on voting behavior in planning; social class and school board electoral behavior. Publ: Public open-space programs and activities, Nat. Capital Regional Planning Coun, 63; Open space easements, North. Va. Regional Planning Cmn, 65; contrib, Governmental manpower for tomorrow's cities, McGraw, 62. Address: Dept. of Political Science, Rice Hall 612, George Washington University, Washington, D.C. 20006.

ALLER, DR. WAYNE K, b. Sylvia, Kans, Feb. 20, 33; m. 63; c. 2. PSYCHOLOGY, PHYSIOLOGY. B.A, Northwest Nazarene Col, 55; M.S, Washington (Seattle), 60, Ph.D.(psychol), 64. Asst. physiol, Washington (Seattle), 58-61, psychol, 61-62; asst. prof, Pacific Lutheran, 62-64, asst. prof. PSYCHOL. & chmn. dept. behav. sci, Beirut Col. Women, 64-67; ASSOC. PROF, MANKATO STATE COL, 67- AAAS: Psychol. Asn. Reinforcement theories and irrelevant drives in learning; biochemical basis of learning and memory; psycholinguistics, including bilingual encoding, decoding, satiation, Whorfian hypotheses, and symbol and hypothesis formation; experimental perception. Address: Dept. of Psychology, Mankato State College. Mankato, Minn. 56001.

ALLERHAND, DR. MELVIN E(UGENE), b. New York, N.Y, Sept. 3, 26; m. 48; c. 1. CLINICAL PSYCHOLOGY. B.S, Allegheny Col, 46; M.A, Minnesota, 49; Ph.D.(psychol), Nebraska, 52. Psychol. intern, St. Elizabeth's Hosp, 50-51; clin. psychologist, Vet. Admin. Hosp, Tomah, Wis, 52-53. Bellefaire, Ohio 53-66; ASSOC. PSYCHOL, CASE WESTERN RESERVE, 66-, DIR. DIV. GEN. STUDIES, CLEVELAND COL, 66-; CONSULT, 58- Instr, Cleveland Col, 55-57. Consult. psychologist, Shaker Heights Bd. Ed, 54-59; Lutheran Children's Aid Soc, 55- Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. Psychol. Asn; Soc. Group Psychother. & Psychodrama. Projective techniques; psychotherapy; psychosomatics. Publ: Comparison of two approaches to group psychotherapy, Group Psychother; Chiaroscuro determinant of Rorschach test as indicator of manifest anxiety, J. Proj. Tech; co-auth, Personality factors in neurodermatitis, Psychosomat. Med. Address: Dept. of Psychology, Case Western Reserve University, University Circle, Cleveland, Ohio 44106.

ALLERS, PROF. RUDOLF, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

ALLEY, PROF. W(ILLIAM) E(DWARD), b. Geneva, Ind, Mar. 27, 03. ECONOMICS. A.B, DePauw, 26; A.M, Illinois, 32, Ph.D, 41. Asst. prof. econ, Grove City Col, 36-42; asst. prof. & acting head dept, DRAKE, 42-44, acting head col. commerce & finance, 44-45, assoc. prof. ECON, 44-47, PROF, 47-, HEAD DEPT, 44- Econ. Asn; Finance Asn. Nationalization of central banks. Address: Dept. of Economics, Drake University, Des Moines, Iowa 50311.

ALLEYNE, DR. JACOB MICHAEL, b. San Fernando, Trinidad, June 16, 30; Can. citizen; m. 60; c. 2. ANTHROPOLOGY, SOCIOLOGY. B.A, Sir George Williams, 54; Toronto, 54-56; Dr.Phil.(anthrop), Mainz, 65. Lectr, soc. sci, York (Ont), 65-66; ASST. PROF. SOCIOL. & ANTHROP, MEMORIAL. UNIV, 66- Afro-American acculturation; Caribbean family; family sociology. Address: Dept. of Sociology & Anthropology, Memorial University of Newfoundland, St. John's, Newf, Can.

ALLIN, DR. BUSHROD W(ARREN), b. Harrodsburg, Ky, Aug. 28, 99; m. 22; c. 3. AGRICULTURAL ECONOMICS. B.S, Wisconsin, 21, Ph.D.(agr. econ), 27. Farm cost acct, U.S. Dept. Agr, 21-23, tax economist, taxation inquiry, forest serv, 28-30, agr. economist, div. agr. finance, bur. agr. econ, 30-33; instr. agr. econ, Wisconsin, 26-28; economist, Wharton Sch. Finance, Pennsylvania, 34-35; agr. economist, div. prog. planning, agr. adjust. admin, U.S. Dept. Agr, 35-37, spec. rep, off. secy, 37-39, head div. state & local planning, 39-42, spec. asst. to chief bur. agr. econ, 42-46, chmn. outlook &

situation bd, 46-65; RETIRED. U.S.A, 18. Agr. Econ. Asn.(v.pres, 49, pres, 61). Objectives and methods of agricultural economics. Publ: Is group choice a part of economics. Address: 5214 Goddard Rd, Bethesda Md. 20014.

ALLINGHAM, DR. JOHN DOUGLAS, b. Kirkland Lake, Ont, Jan. 24, 39; m. 61. DEMOGRAPHY. B.A, McMaster, 60, M.A, 62; Ph.D.(demog), Australian Nat. Univ, 65. ASST. PROF. DEMOG, WESTERN ONTARIO, 65- Consult. spec. manpower studies div, Dom. Bur. Statist, Govt. of Can, 66- Pop. Asn; Int. Union Sci. Study Pop. Determinants of labor force participation; fertility of North American women. Publ: Class regression: an aspect of the social stratification process, Am. Sociol. Rev, 6/67; Women who work: part I, 8/67 & The demographic background to change in the number and characteristics of female wage earners in Canada, 51-61, 8/67, Queen's Printer. Address: Dept. of Sociology, University of Western Ontario, London, Ont, Can.

ALLINSMITH, PROF. WESLEY, b. London, Eng, May 21, 23; U.S. citizen; m. 47; c. 3. PSYCHOLOGY. A.B, Princeton, 47; fel, Michigan, 48-49, M.A, 49, Ph.D.(psychol), 54. Intern psychol, bur. psychol. serv, Michigan, 49-50, asst. psychologist, 52-53, instr. & res. assoc. psychol, 53-55; asst. prof, grad. sch. ed, Harvard, 55-57, res. assoc, lab. human develop, 55-56, asst. dir, 56-57, assoc. dir, 57-61, coordinator res, center studies human develop, Mass. Gen. Hosp, 60-61; PROF. PSYCHOL. & HEAD DEPT, CINCINNATI, 61- U.S.A.A.F, 43-46. AAAS; fel. Psychol. Asn; Sociol. Asn; Soc. Res. Child Develop. Personality theory; preventive mental hygiene and socialization practices; psychopathology, psychotherapy and counseling. Publ: Co-auth, The role of schools in mental health; auth, Religious affiliation and politico-economic attitude, Pub. Opinion Quart; The learning of moral standards. Address: Dept. of Psychology, University of Cincinnati, Cincinnati, Ohio 45221.

ALLISON, PROF. HARRY E(UGENE), b. Gibsonia, Pa, May 12, 23; div; c. 3. MARKETING, ECONOMICS. B.S, Pa. State, 49, M.S, 50; fel, Harvard, 53-54, Ph.D.(agr. econ), 55. Asst. econ, Harvard, 52-54; asst. prof. bus. admin, California, Berkeley, 54-62; lectr, San Francisco State Col, 62-63; dir. mkt. res, First Savings & Loan, Calif, 63-64; PROF. MKT. & ECON. & CHMN. DEPT. MKT, CALIF. STATE COL. HAYWARD, 64- U.S.A, 45-47, 1st Lt. Farm Econ. Asn. Agricultural economics and marketing. Publ: Computational forms for Chi-Square, The Am. Statistician, 2/64; Framework for marketing strategy, Calif. Mgt. Rev; co-auth, Menu data and their contribution to food consumption studies, J. Farm Econ. Address: Division of Business & Economics, California State College at Hayward, Hayward, Calif. 94542.

ALLISON, DR. JAMES (TRUETT), b. Mangum, Okla, Jan. 14, 34; m. 61; c. 2. PHYSIOLOGICAL PSYCHOLOGY. B.E.E, Tex. Tech. Col, 55, M.A, 57; Ph.D. (psychol), Yale, 62. U.S. Pub. Health Serv. fel, 61-63; res. assoc. PSYCHOL, YALE, 63-65, ASST. PROF, 66-; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, WEST HAVEN, 65- Electroencephalog. Soc; Asn. Psychophysiol. Study Sleep. Physiology of sensory systems and of sleep. Publ: Recovery functions of somatosensory evoked responses in man, 62 & Cortical and subcortical evoked responses to central stimuli during wakefulness and sleep, 65, J. Electroencephalog. & Clin. Neurophysiol; co-auth, Cerebral electrical responses to external stimuli, In: EEG and behavior, Basic Books, 63. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06511.

ALLISON, DR. L(OY) W, b. Blairsville, Ga, 99; m. 25. PSYCHOLOGY. A.B, Lincoln Mem. Univ, 23; A.M, Peabody Col, 29, Ph.D, 30. Prof. psychol. & ed, Hiwassee Col, 23-28; prof. psychol. & chmn. div. ed, Jacksonville State, 30-62; RETIRED. Psychol. Asn. Experimental psychology; reflex and voluntary eyelid responses. Address: 1008 Circle Dr, Jacksonville, Ala. 36265.

ALLISON, DR. ROGER B(LAINE), JR, Psychol, see 10th ed, Soc. & Behav. Vols.

ALLISON, THEODORE, b. Summit, N.J, Mar. 28, 23. ECONOMICS. B.S, Columbia, 53; Ford Found. fel, Yale, 53-54, M.A, 54. Labor economist, div. wages & indust. rels, bur. labor statist, U.S. Dept. Labor, 41-54, chief agreement records & anal. sect, 55-56, spec. pub. br, 56-57; mkt. res. mgr, Blue Cross Asn, 58-62; SR. RES. ASSOC, METROP. LIFE INS. CO, 62- Chmn. subcmt. statist, Medicare Admin. Cmt, Health Ins. Asn. Am, 66-; tech. consult, Health Ins. Coun. Community Health Action Planning Proj, 67- Fel. Pub. Health Asn; Statist. Asn. Publ: Costs of health care, Best's Ins. News, 4/64; Just what the Medicaid plan means in New York, Insurance, 1/67. Address: 150 E. 18th St, New York, N.Y. 10003.

ALLOWAY, DR. DAVID NELSON, b. Emmaus, Pa, Sept. 26, 27. SOCIOLOGY, PSYCHOLOGY. A.B, Muhlenberg Col, 50; M.A, Columbia, 55; Ph.D.(sociol), N.Y. Univ, 65. ASST. PROF. SOCIOL, MONTCLAIR STATE COL, 57- Spec. lectr, Fairleigh Dickinson, 64-66, Seton Hall, 66-67; summer vis. prof, Western Illinois, 64, 66. U.S.A, 45-46, 50-51, Sgt. Sociol. Asn; Hist. Asn; Nat. Coun. Soc. Studies. Human relations; social-psychology; urban sociology. Publ: Economic history of the U.S, Monarch, 65; A goodly heritage, Montclair, N.J, 63; Political, social and psychological dimensions of power-seeking, Proc. Mid. States Coun. Soc. Studies, 68. Address: Dept. of Sociology, Montclair State College, Upper Montclair, N.J. 07043.

ALLPORT, PROF. GORDON W(ILLARD), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

ALLRED, PROF. C(HARLES) E(RNEST), b. Allred, Tenn, Apr. 5, 87; m. 23; c. 2. AGRICULTURAL ECONOMICS. B.S, Tennessee, 12; Wisconsin, 12; M.S, Cornell, 13; Missouri, 14; Minnesota, 15-16. Field agent agr. econ, U.S. Dept. Agr, 15; exten. specialist, TENNESSEE, 15-19, PROF. AGR. ECON. & AGR. ECONOMIST, EXP. STA, 19- Rural Sociol. Soc; Hist. Asn; Econ. Hist. Asn. Rural sociology; agricultural history. Publ: Economic and social study of Tennessee; History of agriculture in Holston Country; Resources of Tennessee. Address: 440 Hillvale Turn West, Knoxville, Tenn. 37919.

ALLRED, DR. DALE LEROY, b. Chester, Utah, May 20, 26; m. 51; c. 3. CLINICAL PSYCHOLOGY. B.S, Utah State, 48, M.S, 56; Ph.D, Purdue, 59. Trainee clin. psychol, Vet. Admin, 56-59; psychologist, VET. ADMIN. HOSP, 59-63, CHIEF COUNSELING PSYCHOLOGIST, 63- Instr, Umpqua Community Col, 65- Consult, Div. Voc. Rehab. & family serv. clin, Douglas County Health Dept, 63- Psychol. Asn. Counseling; diagnostic; therapy. Address: 1316 S.E. Lane St, Roseburg, Ore. 97470.

ALLSWANG, DR. JOHN M(YERS), United States Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ALLUISI, DR. EARL A(RTHUR), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

ALLUMS, DR. JOHN F(LETCHER), b. Leakesville, Miss, Apr. 19, 12; m. 41; c. 1. POLITICAL SCIENCE. B.S, Miss. South. Col, 33; A.M, Iowa, 37, Ph.D, 40. Teacher, pub. schs, Ga, 39-42; asst. prof, Emory, 46-47; assoc. prof. polit. sci, Georgia, 47-51; analyst, U.S. Dept. Air Force, 54-56; for. affairs specialist, U.S. Dept. Defense, 56-61; DIR. INTEL. & NAT. SECURITY COUN. AFFAIRS, OFF. EMERGENCY PLANNING, EXEC. OFF. OF PRES, 61- Lectr, Maryland, 56- U.S.A.F, 42-46, 51-54, Col. Political theory; American government; government of the U.S.S.R. Publ: Co-auth, Principles of American government, 5th ed, Prentice-Hall, 66. Address: 2415 Lancaster Court, Falls Church, Va. 22043.

ALLWOOD, PROF. MARTIN SAMUEL, b. Jönköping, Sweden, Apr. 13, 16; m. 47; c. 4. SOCIOLOGY. B.A, Cambridge, 38, M.A, 47; Lydig fel, Columbia, 46-47, M.A, 49; Dr.rer.pol, Darmstadt Tech, 53; Fil. Kand, Göteborgs Univ, Sweden, 59. Lectr. Eng, Santiniketan Col, India, 38-39; Göteborgs Univ, Sweden, 42-45; Columbia, 47-49; asst. prof. sociol, Hobart & William Smith Cols, 49-51; expert, Darmstadt Community Surv. & consult, off. labor affairs, U.S. High Cmnr. for Germany, 51-53; lectr. SOCIOL, Swedish Bd. Ed, 53-59; asst. prof, San Jose State Col, 60-62; PROF, IOWA WESLEYAN COL, 63- Summers, dir, Anglo-Am. Center, Sweden, 51- Consult, Civil Servants' Ed. Orgn, Sweden, 56- Soc. Study Social Prob. Mass communications; changing immigrant attitudes in United States; the new generation; communication today. Publ: American and British, 64, Toward a new sociology, 64 & Collected English poems 1940-1965, 65, Anglo-Am. Center, Sweden. Address: Iowa Wesleyan College, Mt. Pleasant, Iowa 52641.

ALLYN, ROBERT G, b. Buffalo, N.Y, Nov. 8, 10; m. 41; c. 5. ACCOUNTING. Ph.B, Canisius Col, 33, M.A, 40. Assoc. prof. ACCT, Western Reserve, 47-53; prof. & chmn. dept, Canisius Col, 55-62, acting dean sch. bus. admin, 62; EXEC. SECY, N.Y. STATE BD. CERT. PUB. ACCT. EXAM, 62- Nat. Asn. Acct; Inst. Cert. Pub. Acct. Application of electronic data processing to accounting systems and procedures; impact of electronic data processing upon the education of business students. Publ: Co-auth, Accounting principles, Nostrand, 62; auth, Accountants and economists views on costs and prices; Impact of electronic data procession upon business education, In: Collegiate news & views. Address: 12 N. Helderberg Pkwy, Slingerlands, N.Y. 12159.

ALM, PROF. O(SCAR) W(ILLIAM), b. O'Neill, Nebr, 87; m. 20; c. 1. PSYCHOLOGY. A.B, Nebraska, 17; A.M, Columbia, 18; Ph.D.(ed. psychol), Minnesota, 29. Assoc. prof. ed, Kans. State Teachers Col.(Pittsburg), 19-26; from assoc. prof. to prof. PSYCHOL, KANSAS STATE, 29-57, EMER. PROF, 57- U.S.A, 18-19. Factors in the learning ability of rats; associative inhibition; relationship between brain chemistry and the learning ability of rats; personality development in children. Publ: Effect of habit interference upon performance in maze learning, Genetic Psychol. Monogr; Relationship between brain lipids and learning ability of albino rats & A comparison of parent judgements and child feelings; concerning the self-adjustment and social adjustment of twelve-year-old children, J. Genetic Psychol. Address: 1615 Fairchild, Manhattan, Kans. 66502.

ALMAN, JOHN E(RNEST), b. Salina, Kans, July 3, 11; m. 42; c. 2. STATISTICS. A.B, Pomona Col, 33; A.M, Claremont Col, 39. Instr. math, BOSTON, 47-50, dir. statist. & res. serv, 50-61, DIR. COMPUT. CENTER, 61- U.S.N.R, 42-47, Lt. Comdr. AAAS; Asn. Comput. Mach; Statist. Asn; Psychomet. Soc. Statistical methods applied to the behavioral sciences; computing and data processing. Address: Computing Center, Boston University, 111 Cummington St, Boston, Mass. 02215.

AL-MARAYATI, DR. ABID AMIN, b. Baghdad, Iraq, Oct. 14, 31. POLITICAL SCIENCE. B.A, Bradley, 52, M.A, 54; Ph.D, N.Y. Univ, 59. Intern, UN, 54, secy, Iraq Del, 55, Yemen Del, 56-60; instr. govt, Massachusetts, 60; tech. officer, Int. Atomic Energy Agency, Vienna, 60-62; assoc. prof. POLIT. SCI, State Univ. N.Y. Col. Plattsburgh, 62-64; res. fel, Harvard, 64-65; ASSOC. PROF, Arizona State, 65-68; TOLEDO, 68- Lectr. & int. ed. consult, Am. Inst. For. Trade, 65- Mid. East Inst; Polit. Sci. Asn; Mid. East Studies Asn. United Nations; Middle East. Publ: A diplomatic history of modern Iraq, Speller, 61; Middle Eastern constitutions and electoral laws, Praeger, 67; The Anglo-Iranian oil problem, Nat. Chengchi Univ. J, 5/67. Address: Dept. of Political Science, University of Toledo, Toledo, Ohio 43606.

ALMGREN, DR. A(DOLF) W(ILLIAM), b. New Bedford, Mass, Dec. 26, 09; m. 40; c. 1. SOCIOLOGY. A.B, Bowling Green State, 44; B.D, Oberlin Col, 45, S.T.M, 49; Ph.D.(sociol), Ohio State, 64. Bus. admin. & sales anal, Goodwill Industs, 30-35; bus. admin. & building trades, 35-39; ADJ. PROF. soc. sci, Youngstown, 59-67; SOCIOL, AKRON, 64-; ASST. PROF, KENT STATE, 65- Methodist clergyman, 39-; counsr, relig. ed. & church building, 45-; family rels, 50- Sociol. Asn; Soc. Study Social Probs; Adult Ed. Asn. U.S; Soc. Sci. Study Relig. Religious education; family; church structure. Address: 177 Firestone Blvd. N, Akron, Ohio 44301.

ALMON, DR. CLOPPER, JR, b. Nashville, Tenn, Jan. 25, 34; m. 58. ECONOMICS. B.A, Vanderbilt, 56; M.A, Harvard, 61, Ph.D.(econ), 62. Asst. prof. ECON, Harvard, 62-66; ASSOC. PROF, MARYLAND, 66- U.S.A, 57-59, 1st Lt. Econ. Asn; Econmet. Soc. Input-output forecasting; mathematical economics. Publ: American economy to 1975, an interindustry forecast, Harper, 66; Matrix methods in economics, Addison-Wesley, 67; Numerical

solution of a modified Leontief dynamic model, Econometrica, 63. Address: Dept. of Economics, University of Maryland, College Park, Md. 20740.

ALMOND, PROF. GABRIEL A(BRAHAM), b. Rock Island, Ill, Jan. 12, 11. POLITICAL SCIENCE. Ph.B, Chicago, 32, Soc. Sci. Res. Coun. fel, 35-36, Ph.D, 38. From instr. to asst. prof, Brooklyn Col, 39-42, 45-46; res. assoc, inst. int. studies, Yale, 47-49, assoc. prof. polit. sci. & asst. dir. inst, 50-51; assoc. prof. pub. & int. affairs, Princeton, 51-54, prof, 54-59; polit. sci, Yale, 59-63; PROF. POLIT. SCI. & CHMN. EXEC. CMT, INST. POLIT. STUDIES, STANFORD, 63-, EXEC. HEAD DEPT. POLIT. SCI, 64- Soc. Sci. Res. Coun. fel, 45-46; fel, Center Adv. Study Behav. Sci, 56-57; Ford Found. travel & study award, 62-63. Mem. cmt. comp. polit, Soc. Sci. Res. Coun, 54-, chmn, 54-63, mem. bd. dirs, 56-59, bd. dirs. at large, 66-67, policy & planning cmt, 63-66. Polit. Sci. Asn.(v.pres, 61-62, pres, 65-66); Asn. Pub. Opinion Res; Acad. Polit. Sci; fel. Am. Acad. Arts & Sci; Philos. Soc. Political behavior; comparative politics. Publ: Co-auth, The civic culture, Princeton, 63; Comparative politics: a developmental approach, Little, 66; auth, Political theory and political science, Am. Polit. Sci. Rev, 66. Address: Dept. of Political Science, Stanford University, Stanford, Calif. 94305.

ALMOND, DR. GEORGE LEE, b. Bloomfield, Mo, Dec. 30, 14; m. 52; c. 2. MARKETING, ECONOMICS. B.S, Ohio State, 51, M.A, 55, Ph.D.(bus. admin, econ), 63. Admin. officer, U.S. Dept. Defense & U.S. Atomic Energy Cmn, 43-48; prog. analyst, U.S. Atomic Energy Cmn, Tenn. & Ohio, 51-54; instr. bus. admin, Mich. State, 57-58; asst. prof, Rochester, 58-59; mkt, Cincinnati, 59-63; regional economist, U.S. Engrs, Ky. & Ohio, 63-64; assoc. prof. BUS. & ECON, MAINE, 64-66, PROF, 66- Econ. Asn; Mkt. Asn. Physical distribution; problems of small business development and management. Address: Dept. of Business & Economics, Stevens Hall South, University of Maine, Orono, Maine 04473.

ALMY, PROF. MILLIE, b. Clymer, N.Y, June 19, 15. DEVELOPMENTAL PSYCHOLOGY. A.B, Vassar Col, 36; M.A, Columbia, 45, Ph.D, 48. Instr. early childhood ed, teachers col, Columbia, 44-48; assoc. prof, Cincinnati, 48-52; ED, TEACHERS COL, COLUMBIA, 52-57, PROF, 57- Consult, Mid-Century White House Conf. Children & Youth, 50. AAAS; fel. Psychol. Asn; Soc. Res. Child Develop. Early childhood education. Publ: Child development; Young children's thinking, Teachers Col. Press, 66; Ways of studying children, Teachers Col. Bur. Publs. Address: Box 9, Teachers College, Columbia University, New York, N.Y. 10027.

ALNASRAWI, DR. ABBAS, b. Hindiya, Iraq, Feb. 1, 32; m. 64. ECONOMICS. B.A, Baghdad, 53; A.M, Harvard, 57, Ph.D.(econ), 65. Instr. ECON, VERMONT, 63-65, asst. prof, 65-67, ASSOC. PROF, 67- Sr. economist, Nat. Planning Asn, 67-68. Am. Econ. Asn; Royal Econ. Soc; Mid. East Inst. Economic development; public finance; petroleum economics. Publ: Financing economic development in Iraq, Praeger, 67. Address: Dept. of Economics, University of Vermont, Burlington, Vt. 05401.

ALOIA, PROF. VINCENT A, Soc. Sci, see 10th ed, Soc. & Behav. Vols.

ALONSO, PROF. WILLIAM, b. Buenos Aires, Argentina, Jan. 29, 33; U.S. citizen; m. 59; c. 1. ECONOMICS. B.A, Harvard, 54, M.C.P, 56; Ph.D.(regional sci), Pennsylvania, 60. Instr. city planning, Pennsylvania; Harvard, 59-60, asst. prof. REGIONAL PLANNING, 60-64, assoc. prof, 64-67; PROF, CALIFORNIA, BERKELEY, 67- Mem. joint center urban studies, Mass. Inst. Tech. & Harvard, 59-67; UN tech. assistance expert & dir. dept. regional & city planning, Bandung Tech. Inst, 60-61; summer vis. prof, Venezuela, 63. Private consult, 59- Regional Sci. Asn. Regional development and urbanization in developing and developed countries; urban studies. Publ: Location and land use, Harvard, 64; co-auth, Regional development and planning, M.I.T. Press, 64. Address: Dept. of City & Regional Planning, University of California, Berkeley, Calif. 94720.

ALPER, DR. ARTHUR E(UGENE), b. New York, N.Y, Jan. 5, 28; m. 53; c. 2. CLINICAL PSYCHOLOGY. B.A, Florida, 49, M.A, 50, Ph.D.(clin. psychol), 60. Asst. psychologist, Sunland Training Center, Fla, 54-59; trainee clin. psychol, Vet. Admin. Hosp, Augusta, Ga, 59; clin. psychologist, Med. Col. Ga, 60-62; dir. prfnl. training clin. psychol, Milledgeville State Hosp, Ga, 62-64; ASSOC. PROF. SPEC. ED, FLORIDA, 65- Field reader, U.S. Off. Ed, 67- Consult, Lowndes County Health Dept, Valdosta, Ga, 65-; Milledgeville State Hosp, 65-; except. child. ed. prog, Duval County, Fla, 65- U.S.A.F, 51-53, Res, 53-, Capt. Psychol. Asn; Coun. Except. Children. Emotional disturbance in children and adults; mental deficiency; pre-school screening techniques; psychotherapy. Publ: Comparison of the Wechsler Intelligence Scale for children and the Arthur Adaptation of the Leiter International Performance scale with mental defectives & co-auth, Changes in IQ of a group of institutionalized mental defectives over a period of two decades, Am. J. Ment. Defiency; auth, An analysis of the Wechsler Intelligence Scale for Children with institutionalized retardates, Am. J. Ment. Deficiency, 1/67. Address: 3331 N.W. 28th Ave, Gainesville, Fla. 32601.

ALPER, PROF. THELMA G, b. Chelsea, Mass, July 24, 08; m. 32. PSYCHOLOGY. A.B, Wellesley Col, 29, A.M, 33, Ph.D.(psychol), Radcliffe Col, 43. Asst. psychol, Wellesley Col, 29-42, dir. remedial reading, 38-42; tutor psychol, Radcliffe Col, 42-43; instr, Harvard, 43-46, lectr. clin. psychol, 46-48; assoc. prof. PSYCHOL, Clark, 48-52; WELLESLEY COL, 52-54, PROF, 54- Radcliffe Inst. Independent Study res. award, 68-69. Dir, clin. training program & consult, Boston Area, U.S. Vet. Admin, 47-52; consult, Judge Baker Guid. Center, 59- Fel. Psychol. Asn. Learning, memory and personality; diagnostic spelling scale for use at the college level; achievement motivation; learning inhibitions in children. Address: Dept. of Psychology, Wellesley College, Wellesley, Mass. 02181.

ALPERIN, DR. ROBERT J(AY), b. Memphis, Tenn, Nov. 17, 28. POLITICAL SCIENCE. A.B, Chicago, 50, A.M, 52; Ph.D.(polit. sci), Northwestern, 59. Asst. polit. sci, Northwestern, 55, 59; instr. govt. & polit, Maryland, 59-63, asst. prof, 63-66; INDEPENDENT WRITING, 67- Polit. Sci. Asn. Political behavior; theory construction; mass communication; simulation. Address: 4017 Atlantic, Atlantic City, N.J. 08401.

ALPERN, DR. GERALD D(AVID), b. Pittsburgh, Pa, Aug. 2, 32. CHILD PSYCHOLOGY. B.S, Pittsburgh, 54; M.A, Iowa, 59, Ph.D.(child psychol), 60. Aide, West. Psychiat. Inst. & Clins, Pittsburgh, Pa, 51-53, child case worker, 53-54; teacher, lab. presch, Iowa, 56-58, psychologist, child guid. clin, univ. hosp, 58-59; INSTR. PSYCHOL, DEPT. PSYCHIAT. & STAFF CHILD PSYCHOLOGIST, CHILD GUID. CLIN, SCH. MED, INDIANA, 60-, DIR. RES, CHILD PSYCHIAT. SERV, 65- Consult, Richmond State Hosp, 60-; Indiana Girls Sch, 61-; Carter Hosp, Indianapolis, 63-65; consult. sch. psychologist, Indiana Sch. Corp, 63- Mem. Asn. Psychiat. Clin. Children, 60- U.S.A, 54-56. Psychol. Asn. Clinical child psychology; symptom substitution in children; early academic failure in children. Address: Dept. of Psychiatry, Indiana University Medical School, Indianapolis, Ind. 46207.

ALPERT, DR. BERNARD, b. New York, N.Y, Feb. 16, 20; m. 54; c. 2. ORGANIZATIONAL BEHAVIOR. B.S, N.Y. Univ, 41; Stanford, 53; M.B.A, California, Berkeley, 58; D.B.A, Washington (Seattle), 64. Pres. & gen. mgr, Bowline Mfg. Co, 48-51; mgt. analyst, U.S. Dept. Army, 54-58; instr. admin. & policy, exten. div, California, Berkeley, 58-62; instr. behav. sci. in admin, Washington (Seattle), 63-64; ASSOC. PROF. MGT, SAN FRANCISCO STATE COL, 64-, res. grant, 68. Orgn. counsel, Lockheed Missiles & Space Corp, 58-62; vis. assoc. prof, Minnesota, Minneapolis, summer 67. Consult, Cmt. on Youth, San Francisco, 65-66. U.S.N, 42-46, 51-53, Comdr. AAAS; Acad. Mgt; Soc. Adv. Mgt. Effect of self advocacy on an individual's opinion; an experiment with an organization that does not have a chief executive. Publ: Co-auth, Appointive committees—a behavioral analysis of committee effectiveness and potential for action, Bus. Rev, 10/64; auth, Non-businessmen as surrogates for business men in behavioral experiments, J. Bus, 4/67. Address: School of Business, San Francisco State College, San Francisco, Calif. 94127.

ALPERT, DR. HARRY, b. New York, N.Y, Oct. 12, 12; m. 36; c. 2. SOCIOLOGY, SOCIAL STATISTICS. A.B, City Col. New York, 32; Franco-Am. exchange fel, Inst. Int. Ed, 32-33; cert, Univ. Bordeaux, France, 33; M.A, Columbia, 35, univ. fel, 36-37, Ph.D.(sociol), 38. Instr. & asst. prof, City Col. New York, 33-47; anal. statistician, U.S. Bur. Budget, 45-48, 50-53; assoc. prof. anthrop. & sociol. & chmn. dept, Queens Col.(N.Y), 48-50; study & prog. dir. soc. sci. res. & prog. dir. anthrop. & related sci, Nat. Sci. Found, 53-58; PROF. SOCIOL, OREGON, 58-, DEAN FACULTIES, 64-, dean grad. sch, 58-64. Fel, Soc. Sci. Res. Coun, 40-41; pub. opinion analyst, Off. War Info, 43-44; analyst, Off. Price Admin, 44-46; assoc. prof, Yale, 47; prof. lectr. & adj. prof, American Univ, 47-48, 50-58; vis. prof, Washington (Seattle), 55; fel. Center Adv. Study Behav. Sci, 63-64. Dir. dept. soc. sci, UNESCO, 67-69. Consult, Columbia, 46-48; Res. & Develop. Bd, 48-50; med. col, Cornell, 51-54. Fel. AAAS; fel. Sociol. Asn.(v.pres, 59; ed, Am. Sociol. Rev, 60-62); fel. Statist. Asn; Anthrop. Asn; Pop. Asn; Sociol. Res. Asn.(pres, 60-61); Asn. Pub. Opinion Res.(pres, 55); World Asn. Pub. Opinion Res. Research methodology; social psychology; sociology of science; social sciences in international perspective. Publ: Emile Durkheim and his sociology. Address: Dean of Faculties, University of Oregon, Eugene, Ore. 97403.

ALROY, DR. GIL C(ARL), b. Cernauti, Romania, Nov. 7, 24; U.S. citizen; m. 54; c. 3. POLITICAL SCIENCE. B.A, City Col. New York, 59; M.A, Princeton, 61, Ph.D.(polit), 63. Asst. prof. POLIT. SCI, HUNTER COL, 66-68, ASSOC. PROF, 68- Res. assoc, center int. studies, Princeton, 63-67, mem. vis. res. staff, 67-68. Econ. Asn.(pres, 60-61). Rural mass; internal wars. Publ: The involvement of peasants in internal wars, Princeton Univ. Monogr, 66; Insurgency in the countryside of underdeveloped societies, Antioch Rev, summer 66; The peasantry in the Cuban revolution, Rev. Polit, 1/67. Address: Center for International Studies, 122 Corwin Hall, Princeton University, Princeton, N.J. 08540.

ALSCHULER, DR. LAWRENCE R(ICHARD), b. Chicago, Ill, Sept. 6, 41; m. 63. POLITICAL SCIENCE. B.A, Wesleyan, 63; M.A, Northwestern, 65, Orgn. Am. States grant & Ph.D.(polit. sci), 67. ASST. PROF. POLIT. SCI, HAWAII, 67-, res. coun. grant, 68-69. Polit. Sci. Asn. Cross-national empirical research on the process of change in political culture and political structures of developing nations and of Latin American nations in particular. Publ: The Administrative organization of the Chicago metropolitan area, Northeast. Ill. Planning Cmn, 64; Political participation and urbanization in Mexico, Univ. Microfilms, 67. Address: Dept. of Political Science, University of Hawaii, Honolulu, Hawaii 96822.

ALSOFROM, DR. ROBERT KENNETH, b. Hartford, Conn, May 8, 23; m. 49; c. 3. CLINICAL PSYCHOLOGY. A.B, Brooklyn Col, 45; M.A, Princeton, 47, Ph.D, 50. Chief psychologist, State Diagnostic Center, N.J, 50-53; PRIVATE PRACTICE, 53- Consult, pub. schs, N.J, 53-; N.J. Bur. Children's Serv. & N.J. Disability Determinations Cmn, 62- Mem. bd. dirs, Cerebral Palsy Hosp, 59- AAAS; Psychol. Asn. Therapy of childhood neurosis; philosophical foundations of psychological theory; techniques of psychological testing; research relating to life adjustment of divorced and widowed women; training laymen to become therapy group leaders. Publ: Study of imprisoned sex offenders; Evaluation of picture drawing test; Child psychology for parents. Address: 92 Carroll Place, New Brunswick, N.J. 08901.

ALSON, DR. ELI, b. New York, N.Y, Aug. 1, 29; m. 56; c. 2. SOCIAL PSYCHOLOGY. B.A, Brooklyn Col, 52; Ph.D, Buffalo, 58. Asst. psychol, Buffalo, 52-56; trainee soc. psychol, Vet. Admin. Center, Bath, N.Y, 56-58; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, 59- AAAS; Psychol. Asn. Interpersonal relations; social perception; cognitive structure; applications of psychology; schizophrenia. Publ: Psychological correlates of capillary morphology in schizophrenia, Am. J. Psychiat, 65; Balance of POQ triads in mental patients and normals, J. Soc. Psychol, 68; Position and acquiescence response set behavior in apathetic neuropsychiatric patients. Address: Veterans Administration Hospital, Lyons, N.J. 07939.

ALSPAUGH, DR. HAROLD PAUL, b. Amanda, Ohio, Jan. 15, 07; m. 36; c. 1. MANAGEMENT SCIENCE, MARKETING. B.S, Ohio State, 28, M.A, 29, Ph.D, 36. Prof. mkt, Temple, 29-41; mgr. mkt. res, Radio Corp, Am, 41-47; mkt. mgr, H.J. Heinz Co, 47-54; consult, A.T. Kearney Co, 54-56; v.pres, Standard Rate & Data, Inc, 56-64; PROF. BUS. ADMIN. & CHMN. DEPT, EAST TENN. STATE, 64- Mkt. Asn.(v.pres, 55). Address: Dept. of Business, East Tennessee State University, Johnson City, Tenn. 37601.

ALSTON, DEAN JOHN C, Sociol, see 10th ed, Soc. & Behav. Vols.

ALT, PROF. PAULINE M(ARGARET), b. North Tonawanda, N.Y. PSYCHOLOGY. B.A, D'Youville Col, 28; Ed.M, Buffalo, 45; Ph.D, Chicago, 49. Teacher & supvr. records off, Chicago, 45-48; asst. prof. ED. & PSYCHOL, Carleton Col, 48-49; PROF, CENT. CONN. STATE COL, 49- Exchange prof, Armidale Teachers Col, Australia, 56-57. Psychol. Asn; Nat. Soc. Study Ed. Child and adolescent development; tests and measurements; educational psychology. Publ: Relationship between physique and temperament, Sch. Rev. Address: Dept. of Education & Psychology, Central Connecticut State College, New Britain, Conn. 06050.

ALT, RICHARD M(ELTON), b. Seattle, Wash, Sept. 19, 10; m. 41; c. 4. ECONOMICS. A.B, Harvard, 32, Sheldon fel. & A.M, 40, Ph.D.(econ), 46; fel, Washington (Seattle), 37-38. Instr. econ, Princeton, 40-41, lectr, 45-46; assoc. economist, Off. Price Admin, 41; asst. prof. bus. econ, Northwestern, 46-48; assoc. prof. mkt, Hopkins, 48-51; economist, Arthur D. Little, Inc, 51-56; dir. res, New Eng. Mutual Life Ins. Co, 56-67; CHIEF DIV. ECON. ANAL, U.S. STATE DEPT, AGENCY INT. DEVELOP, INDIA, 67- Consult, Baltimore Planning Cmn, 50. U.S.N.R, 42-46, Comdr. Econ. Asn; fel. Asn. Bus. Econ. Economic development; forecasting. Publ: Co-auth, Business economics; auth, Research-based industry in New England, Am. Soc. Mech. Engrs. J; Internal organization of the firm and price formation, Quart. J. Econ. Address: American Embassy, Agency for International Development, APO, N.Y. 09675.

ALTARAZ, DR. I(SAAC) M, b. Vlasenica, Yugoslavia, Sept. 20, 91; nat; m. 20; c. 1. SOCIAL SCIENCE. Ph.D.(sociol, psychol), Berlin, 17; fel. & M.A, N.Y Univ, 25. Instr, New Sch. Soc. Res. & Mass. State Dept. Ed, 20-27; RES. PSYCHOLOGIST & GUID. DIR, BROOKSIDE SCH, 27- Reference librn, Ed. Proj. S.East. Europe, N.Y. Pub. Library, 20-26; lectr, Mass. State Dept. Ed. Int. Med.C, 14-16. Fel. AAAS; fel. Psychol. Asn; Inter-Am. Soc. Psychol. Core curriculum; behavior problems; group relation. Publ: Pure sociology; Maladjustment and recreation; Multiple determinants of personality patterns in youth. Address: Box 180, Stockbridge Rd, Great Barrington, Mass. 01230.

ALTAZAN, PROF. JOHN E(DWARD), b. Port Allen, La, Sept. 17, 26; m. 57; c. 1. ECONOMICS. B.S, La. State, 50, M.B.A, 51; fel, Illinois, 51-54, Ph.D. (econ), 54. Asst. prof. trade & transportation, Loyola (La), 54-58; assoc. prof. ECON, LA. STATE, 58-62, PROF. & DEAN COL. BUS. ADMIN, 62- Ford Found. summer faculty res. fel, 57. U.S.N.R, 44-46. Econ. Asn. International trade; transportation economics; American economic history. Publ: Interstate commerce commission policy concerning consolidations and acquisitions of control in the motor carrier industry. Address: College of Business Administration, Louisiana State University, New Orleans, La. 70122.

ALTENBURG, PROF. F(RANCIS) W(ERNER), b. Hazel Green, Wis, May 14, 98. GEOLOGY, GEOGRAPHY. A.B, Lake Forest Col, 26; summers, Wis. State Teachers Col, 35, 36; Wisconsin, 42; A.M, Colo. State Col. Ed, 48. Assoc. prof. soc. sci, NORTHLAND COL, 46-59, PROF. GEOG, 59- Use of phonographic recordings in literature classes of Wisconsin secondary schools. Address: Division of Social Science, Northland College, Ashland, Wis. 54806.

ALTER, DR. GERALD M(ILTON), b. Mason City, Iowa, Dec. 15, 19; m. 43; c. 3. ECONOMICS. S.B, Harvard, 41, univ. fel, 41-42, Littauer fel, 47-48, M.P.A, 48, Ph.D.(econ), 54. Economist, Fed. Reserve Bd, 48-51; WORLD BANK, 51-58, econ. adv, west. hemisphere dept, 58-64, DIR. WEST. HEMISPHERE DEPT, 64- Econ. Asn. Economic development of underdeveloped countries. Publ: Economic development without inflation, El Trimestre Economico; Development loans to private enterprises in underdeveloped countries, Civilizations; co-auth, Latin America's postwar inflation and balance of payments problems. Address: 5124 Linnean Terr. N.W, Washington, D.C. 20008.

ALTHAUSER, DR. ROBERT P(IERCE), b. Cincinnati, Ohio, Dec. 8, 39. SOCIOLOGY. B.A, Carleton Col, 61; Nat. Defense Ed. Act fel, Duke, 62-63, M.A, 64; Nat. Inst. Ment. Health fel, North Carolina, 64-67, Ph.D.(sociol), 67. ASST. PROF. SOCIOL, PRINCETON, 67- Sociol. Asn; Statist. Asn. Social stratification and political power within Negro communities; sociology of religion; career outcomes of white and Negro college graduates; survey methodology and data analysis; marriage and family; sociological theory. Publ: Co-auth, The standardized contiguity ratio, Soc. Forces, 12/66. Address: Dept. of Sociology, Green Hall, Princeton University, Princeton, N.J. 08540.

ALTMAIER, DR. CARL L(EWIS), JR, b. Lansdowne, Pa, Dec. 6, 00; m. 45. PSYCHOLOGY. A.B, Pennsylvania, 22, M.A, 26, Ph.D.(clin. psychol), 30. Asst. psychol, Pennsylvania, 22-23, 25-28, instr, 28-31; Trinity Col.(Conn), 31-36, asst. prof, 36-42, from secy. to dir. admissions, 38-42; AREA CHIEF & CLIN. PSYCHOLOGIST, VET. ADMIN, 46- U.S.M.C, 42-46, Maj. Dipl. Am. Bd. Exam. Prfnl. Psychol. AAAS; fel. Psychol. Asn. Development of norms of behavior for use in clinical psychology. Address: 1118 W. Wesley Rd. N.W, Atlanta, Ga. 30327.

ALTMAN, DR. CHARLOTTE H(ALL), b. Little Falls, Minn, June 22, 08; wid. PSYCHOLOGY. B.A, Minnesota, 29; M.A, Clark, 33; Ph.D.(psychol), Chicago, 54. Asst, Worcester State Hosp. & Mem. Found. Neuro-Endocrine Res, 32-36; psychologist, pub. schs, Minneapolis, 39-42; State Bur. Psychol. Serv, Minn, 42-43; SUPV. PSYCHOLOGIST, INST. JUVENILE RES, 43- Psychol. Asn; Orthopsychiat. Asn. Emotional and behavior problems in children; training programs in clinical psychology. Publ: Relationships between maternal attitudes and child personality structure Am. J. Orthopsychiat; Projective techniques in the clinic setting; In: Projective techniques with children. Address: Institute for Juvenile Research, 907 S. Wolcott Ave, Chicago, Ill. 60612.

ALTMAN, DR. IRWIN, b. New York, N.Y, July 16, 30; m. 53; c. 2. SOCIAL PSYCHOLOGY. B.A, N.Y. Univ, 51; M.A, Maryland, 54, Ph.D.(soc. psychol), 57. Res. assoc. & instr. psychol, Maryland, 56-57; asst. prof, American Univ, 57-58; res. scientist & v.pres, Human Sci. Res, Inc, Va, 58-60; assoc. prof. psychol. & res. psychologist, AMERICAN UNIV, 60-62, ADJ. PROF, 61-; RES. PSYCHOLOGISTS, NAVAL MED. RES. INST, 62- U.S.A, 54-56, 1st Lt. AAAS; Psychol. Asn. Small group behavior; classification of scientific knowledge; ecology of interpersonal relationships. Publ: Co-auth, Small group research: synthesis and critique of the field, Holt, 66 & Ecology of isolated groups, Behav. Sci, 67; auth,Choice points in the classification of scientific information, People, groups and organizations, Columbia, 68. Address: 4717 Briar Patch Lane, Fairfax, Va. 22030.

ALTMAN, PROF. ISIDORE, b. New York, N.Y, Sept. 29, 12; m. 35; c. 3. BIOSTATISTICS. B.S, City Col. New York, 32, M.S, 33; Ph.D.(biostatist), Pittsburgh, 52. Statistician, U.S. Pub. Health Serv, 36-52; chief statistician, Cmn. Financing Hosp. Care, 52-54; statist. consult, United Cerebral Palsy, 54-55; asst. prof. BIOSTATIST, GRAD. SCH. PUB. HEALTH, PITTSBURGH, 55-58, assoc. prof, 56-60, PROF, 60- AAAS; Statist. Asn; Pub. Health Asn. Medical care and public health statistics. Publ: Co-auth, Methodology in evaluating the quality of medical care: an annotated selected bibliography, Univ. Pittsburgh, 62, The office practice on internists, J. Am. Med. Asn, 65 & Introduction to occupation health statistics, Occup. Med, various times 64-66. Address: 734 S. Linden Ave, Pittsburgh, Pa. 15208.

ALTMAN, DR. JAMES W, b. Dravosburg, Pa, Apr. 14, 28; m. 51; c. 4. PSYCHOLOGY. B.S, Pittsburgh, 50, M.S, 52, Ph.D.(psychol), 54. V.PRES. & DIR. PITTSBURGH OFF, AM. INST. RES, 51- Psychol. Asn; Human Factors Soc; Ed. Res. Asn; Voc. Asn. Human performance capabilities and limitations; design techniques for man-machine systems; development and use of special talent; human learning and adjustment mechanisms. Publ: Guide to design of mechanical equipment for maintainability; Research on general vocational capabilities (skills and knowledges), Am. Inst. Res, 3/66. Address: American Institutes for Research, 135 N. Bellefield Ave, Pittsburgh, Pa. 15213.

ALTMAN, DR. JOSEPH, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

ALTMAN, DR. OSCAR L(OUIS), b. New York, N.Y, Jan. 17, 09; m. 42, 52; c. 3. ECONOMICS. A.B, Cornell, 29, fel, 29-30, A.M, 30; fel, Chicago, 30-32, Ph.D.(econ), 36. Instr. econ, Ohio State, 36-38; sr. economist, Securities & Exchange Cmn, 38-40: prin. economist, Nat. Resources Planning Bd, 40-42; French Supply Coun, 45-46; dir. admin, INT. MONETARY FUND, 46-54, dep. dir. res, 54-66, TREAS, 66- Legion of Merit, 45. U.S.A.A.F, 42-45, Lt. Col. Econ. Asn. International economics; public finance; economic theory. Publ: Saving, investment and national income; contrib, Planning for America & World monetary reform. Address: 2527 Queen Anne's Lane N.W, Washington, D.C. 20037.

ALTMAN, DR. STUART H, b. Bronx, N.Y, Aug. 8, 37; m. 59; c. 2. ECONOMICS. B.B.A, City Col. New York, 59; M.A, California, Los Angeles, 61, Soc. Sci. Res. Coun. fel, 62-63, Ph.D.(econ), 64. Economist, Fed. Reserve Bd, 62-64; manpower economist, Dept. Defense, 64-66; ASST. PROF. ECON, BROWN, 66- Instr, Maryland, 64-66; vis. asst. prof, inst. labor & indust. rels, Illinois, 66. Consult, President's Cmn. Selective Serv, 66; Dept. Health, Ed. & Welfare, 67- Econ. Asn; Indust. Rels. Res. Asn. Occupational choice, labor supply and unemployment; military manpower problems. Publ: Pattern bargaining, a critical analysis, Univ. California, Los Angeles Bus. J, 5/60; Effects of inter-labor force mobility on the unemployment of married women, Proc. Am. Statist. Asn. fall 63; co-auth, The supply of military personnel in the absence of a draft, Am. Econ. Asn. Papers & Proc, 5/67. Address: Dept. of Economics, Brown University, Brown Station, Providence, R.I. 02912.

ALTMANN, DR. MARGARET, Psychol, Biol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

ALTON, PROF. AARON JOHN, b. Worcester, Mass, Feb. 12, 20; m. 42; c. 3. MARKETING. A.B, Miami (Ohio), 42; M.B.A, Harvard, 47; Ph.D.(mkt, personnel, econ), Ohio State, 56. Instr. MKT, Miami (Ohio), 46-49, asst. prof, 49-55, assoc. prof, 54-61; PROF. & CHMN. DEPT, COL. BUS. ADMIN, RHODE ISLAND, 61- Fulbright lectr, Helsinki, 59-60. U.S.N, 43-46, Lt. Econ. Asn; Mkt. Asn. Comparative marketing, macro and micro; marketing policy; international marketing; comparative management; collegiate education for business in foreign countries; case method study for marketing education; advertising strategy by multinational firms. Publ: Contrib. ed, Marketing Handbook, Ronald, 2nd ed, 65; auth, Marketing in Finland, 7/63 & co-auth, Trading stamps in Japan—boom in the making, 4/65, J. Mkt. Address 17 Beech Hill Rd, Peace Dale, R.I. 02879.

ALTROCCHI, DR. JOHN (COOLEY), Psychol, see Suppl. II to 11th ed, Phys. & Biol. Vols.

ALTSCHULER, DR. MILTON, b. New York, N.Y, Apr. 9, 26; m. 56; c. 2. ANTHROPOLOGY. A.B, California, Los Angeles, 53, A.M, 56; Ph.D. (anthrop), Minnesota, 64. Instr. ANTHROP, Minnesota, 61-64; ASST. PROF, Cincinnati, 64-66; SOUTHERN ILLINOIS, 66-, Univ. Found. summer grant, 67. Taft Found. summer grant, 66. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc. Analysis of Cayapa Indian law, politics and personality; formal approaches in anthropology; kinesics; proxemics; linguistic analogues in cultural analysis. Publ: On the environmental limitations of Mayan cultural development, Southwest. J. Anthrop, summer 58; Notes on Cayapa kinship, Ethnology, 10/65; Sacred and profane realms of Cayapa law, Int. J. Comp. Sociol, 3/67. Address: Dept. of Anthropology, Southern Illinois University, Carbondale, Ill. 62901.

ALTSHULER, DR. ALAN A, b. Brooklyn, N.Y, Mar. 9, 36; m. 58; c. 2. POLITICAL SCIENCE. B.A, Cornell, 57; M.A, Chicago, 59, Ph.D, 61. Instr, Swarthmore Col, 60-61; vis. Smith-Mundt asst. prof, Makerere Univ. Col, Uganda, 61-62; asst. prof, Cornell, 62-66; ASSOC. PROF. POLIT. SCI, MASS. INST. TECH, 66- Summer mem. staff, U.S. Bur. Budget, 57-58. Consult, Cmt. Econ. Develop, 66- Polit. Sci. Asn. Urban politics, especially land-use planning and transportation policy; politics of national economic policy. Publ: City planning process: a political analysis, Cornell Univ, 65; ed, Politics of the federal bureaucracy, Dodd, (in press). Address:

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ALTSHULER, DR. NATHAN, Anthrop, see 10th ed, Soc. & Behav. Vols.

ALTUS, PROF. WILLIAM D(AVID), b. Burlington, Kans, May 28, 08; m. 51; c. 3. CLINICAL PSYCHOLOGY. Ph.D.(psychol), N.Y. Univ, 41. Instr. PSYCHOL, N.Y. Univ, 40-41; CALIFORNIA, SANTA BARBARA, 41-45, asst. prof, 45-47, assoc. prof, 47-54, PROF, 54-, chmn. dept, 50-55, faculty res. lectr, 61. U.S.A, 42-46. Fel. AAAS; fel. Psychol. Asn. Personality evaluation. Address: 767 Las Palmas Dr, Santa Barbara, Calif. 93105.

ALUTTO, DR. JOSEPH ANTHONY, b. Bronx, N.Y, June 3, 41; m. 63. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.B.A, Manhattan Col, 62; M.A, Illinois, 65; Owen D. Young fel. & Ph.D.(orgn. behav, sociol, indust. rels), Cornell, 68. ASST. PROF. ORGN. THEORY & ANAL, STATE UNIV. N.Y. BUFFALO, 66- Exten. specialist, N.Y. State Sch. Indust. & Labor Rels, 66- Sociol. Asn; Psychol. Asn; Indust. Rels. Res. Asn. Role theory development; organizational analyses of professional associations; socialization of professional personnel; comparative analyses of hospital, university and non-university level systems; professional employment in industry. Publ: Identification: state and process considerations, Cornell J. Soc. Rels, 67; Collective bargaining, nursing attitudes and the local unit concept, N.Y. State Nurse, 67; Structural aspects of the American Nurses Association, In: Issues and perspectives in health administration, Atherton, 68. Address: Dept. of Organizations, State University of New York at Buffalo, Buffalo, N.Y. 14214.

ALVAREZ-TOSTADO, DR. VEE H(OLT), Psychol, see 10th ed, Soc. & Behav. Vols.

ALVEN, PROF. WESLEY O(GDEN), b. Chicago, Ill, May 28, 15; m. 53. PSYCHOLOGY. Ph.B, Loyola (Ill), 40; M.A, Akron, 44; Ph.D, Western Reserve, 50. Instr. psychol, Cleveland Col, Western Reserve, 46-47; from asst. prof. to assoc. prof, Akron, 47-58, dir. measurement serv, 53-56; from assoc. prof. to PROF. PSYCHOL. RUTHERFORD CAMPUS, FAIRLEIGH DICKINSON, 58- Psychol. Asn. Social psychology; psychology of religion; counseling. Address: Dept. of Psychology, Fairleigh Dickinson University, Rutherford, N.J. 07070.

ALVI, DR. SHAFIQ AHMAD, b. Kanpur, India, Oct. 25, 29; m. 61. INTERNATIONAL ECONOMICS & FINANCE. B.A, Karachi, 54, M.A, 56; Princeton, 58-59; Ph.D.(int. econ), Colorado, 61. Asst. dir. labor, Trade Union Inst, Pakistan, 56-58; asst. ECON, Colorado, 59-61; asst. prof, Memorial Univ, 61-63, ASSOC. PROF. & CHMN. DEPT, LOYOLA COL.(QUE), 63- Lectr, Syed Raza Ali Col, Pakistan, 57-58. Econ. Asn; Can. Polit. Sci. Asn. Labor problems as related to the developing economies of the world; income elasticities in international trade and balance of payments problems. Publ: Labor problems in Indo-Pakistan subcontinent. Address: Dept. of Economics, Loyola College, 7141 Sherbrooke St. W, Montreal, Que, Can.

ALVIS, PROF. VANCE Q(UENTIN), b. Richmond, Va, Sept. 13, 19; m. 48; c. 2. ECONOMICS. B.S, Richmond, 43; M.A, Virginia, 46, fel. & Ph.D.(econ), 51. Instr. econ, Arkansas, 46-47, asst. prof, 47-52; spec. asst. to dir, Norfolk Housing Authority, Va, 52-53; prof. econ. & head dept. econ. & bus. admin, Emory & Henry Col, 53-56; assoc. prof. ECON, COL. COMMERCE, WEST VIRGINIA, 56-60, PROF, 60- Econ. Asn. Economic theory; monetary and fiscal theory and policy; money and banking. Publ: The West Virginia gross sales tax; Marketing of staple foodstuffs in Kenya. Address: Dept. of Economics, West Virginia University, Morgantown, W.Va. 26506.

ALVORD, DR. BEN M(AJOR), b. Bozeman, Mont, July 30, 28. ECONOMICS, FINANCE. B.S, Auburn, 51; fels, Illinois, 53-55, M.S, 54, Ph.D, 61. Financial analyst, Arabian Am. Oil Co, Saudi Arabia, 57-61; Int. Bus. Mach. World Trade Corp, 61-65; W.R. GRACE & CO, 65-68, ASST. V.PRES, 68- U.S.A, 46-47, 51-53, 1st Lt. Econ. Asn; Finance Asn. International economics and corporation finance. Address: 246 E. 46th St, New York, N.Y. 10017.

ALYASIRI, DEAN KAHTAN, b. Hindia, Iraq, Jan. 20, 39; m. 61; c. 1. ECONOMICS. B.S, Nebraska, 62, M.S, 63; Ph.D.(econ), Iowa State, 65. Assoc. prof. econ. & head dept. bus. & econ, WIS. STATE, PLATTEVILLE, 65, prof. econ, 66, DEAN SCH. BUS. & ECON, 66-, summer dir. inst. econ. ed, 66-67. Agr. Econ. Asn. Economic development and planning; economic theory. Publ: Economic workbook and programmed study, W.C. Brown, 66. Address: School of Business & Economics, Wisconsin State University, Platteville, Wis. 53818.

AMACKER, PROF. DAVID M(UIR), b. Lake Providence, La, Feb. 26, 97. INTERNATIONAL RELATIONS. A.B, Princeton, 17; B.A, Oxford, 22, M.A, 27. Instr, Dartmouth Col, 26-30, asst. prof, 30-36; prof. POLIT. SCI, SOUTHWESTERN AT MEMPHIS, 36-67, EMER. PROF, 67- Assoc. prof, La. Polytech, 27-28. Address: Dept. of Political Science, Southwestern at Memphis, Memphis, Tenn. 38112.

AMAN, DR. JOHN A(NDREW), b. Hyattsville, Md, May 31, 99. ECONOMICS. A.B, George Washington, 20, A.M, 22, Ph.D, 35; B.D, Gettysburg Theol. Sem, 23. Prof. soc. sci, Newberry Col, 36-44, prof. econ. & head dept. econ. & bus. admin, 44-68; RETIRED. U.S.A, 41-45, Maj. Econ. Asn. Government in its economic aspects; relationship between government and industry. Publ: American quarantine administration; Public opinion in Iowa concerning the Versailles Treaty. Address: 1211 Reid St, Newberry, S.C. 29108.

AMANN, DR. VICTOR FRANCIS, b. Richardton, N.Dak, Aug. 29, 27; m. 52; c. 1. AGRICULTURAL ECONOMICS, ECONOMICS. B.S, Minnesota, 56, Ph.D.(agr. econ), 62. Instr. AGR. ECON, Minnesota, 57-62; ASST. PROF, Haile Sellassie, 62-66, head dept, 65-66; WEST VIRGINIA, 66- Chief of party, Agency Int. Develop-West Virginia Univ. contract, Agr. Cols. in Uganda, 66- Agr. Econ. Asn; Econ. Asn. Problems in development of cooperative marketing societies in Ethiopia, especially developing and financing such organizations. Publ: Organization and operation of a marketing cooperative in Ethiopia, Okla. State Univ. Exp. Sta. Bull, 11/65; co-auth, Engineering and economic feasibility of the two-wheel tractor on small commercial farms in Ethiopia, Haile Sellassie I Univ, Ethiopia, 5/66. Address: Office of International Programs, West Virginia University, Morgantown, W.Va. 26506.

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AMBA-RAO, DR. SITA CHINTAKINDI, b. Madras, India, Nov. 16, 35; m. 54. INDUSTRIAL RELATIONS. B.Sc, Mysore, 56, B.L, 58; int. scholar, Purdue, 60-64, M.S, 61, Altrusa Int. Found. grants-in-aid, 62-63, Krannert fel, summer 65, Ph.D.(indust. rels), 67. ASSOC. PROF. ECON. & SOCIOL, ALA. AGR. & MECH. COL, 67- Indust. Rels. Res. Asn. Labor problems; labor market behavior. Address: Division of Business & Applied Sciences, Alabama Agricultural & Mechanical College, Normal, Ala. 35762.

AMBELANG, DR. PAUL L(AURELL), b. Chariton, Iowa, June 18, 15. ECONOMICS/STATISTICS. B.A, Illinois; M.A, Catholic Univ, Ph.D.(econ), 56. TRANSPORT ECONOMIST, res. sect, bur. transport econ. & statist, INTERSTATE COMMERCE CMN, 43-65, BUR. ECON, 65- Mem, Transportation Res. Forum. Econ. Asn; Statist. Asn; Biomet. Soc. Transportation economics and statistics; mathematical statistics. Publ: Intercity ton-miles, 1939-1959, Statistics of small shipments & Truck traffic on main rural roads, Interstate Commerce Cmn. Address: Bureau of Economics, Interstate Commerce Commission, Washington, D.C. 20423.

AMBLER, DR. J(OHN) RICHARD, b. Denver, Colo, Jan. 23, 34; m. 57; c. 3. ANTHROPOLOGY. B.A, Colorado, 58, Ph.D.(anthrop), 66; M.A, Arizona, 61. Archaeologist, Mus. N.Mex, 60-61; Mus. North. Ariz, 61-63; Univ. Utah, 64; exec. dir, Tex. archaeol. salvage proj, Univ. Texas, 65-67; ASSOC. PROF. ANTHROP, NORTHERN ARIZONA, 67- Soc. Am. Archaeol. Archaeological research in the American Southwest and coastal Texas. Publ: Co-auth, A survey and excavation of caves in Hidalgo County, New Mexico, Sch. Am. Res, 61 & Survey and excavations on Cummings Mesa, Arizona and Utah, 1960-1961, Mus. North. Ariz, 64; auth, Caldwell Village, Univ. Utah, 66. Address: Dept. of Anthropology, Box 5595, Northern Arizona University, Flagstaff, Ariz. 86001.

AMBLER, DR. JOHN STEWARD, b. Portland, Ore, Jan. 2, 32; m. 59; c. 2. POLITICAL SCIENCE. B.A, Willamette, 53; M.A, Stanford, 54; Fulbright scholar. & cert. polit. studies, Bordeaux, 55, Soc. Sci. Res. Coun. fel, 61-62; univ. fel, California, Berkeley, 62-63, Ph.D.(polit. sci), 64. Instr. POLIT. SCI, California, Berkeley, 63-64; asst. prof, RICE, 64-67, ASSOC. PROF, 67- Summers, fel, Mershon Center Ed. Nat. Security, 64, Am. Philos. Asn. res. grant, 65. Polit. Sci. Asn. Civil-military relations; French political parties and culture. Publ: French army in politics, 1945-1962, Ohio State Univ, 66; Democratic union for the Fifth Republic: to survive de Gaulle, Rice Univ. Studies, 68. Address: Dept. of Political Science, Rice University, Houston, Tex. 77001.

AMEMIYA, DR. EIJI CANNON, b. Saruhashi, Japan, Oct. 1, 27; nat; m. 52; c. 2. SOCIOLOGY. B.A, Pepperdine Col, 54; M.A, Southern California, 56, Ph.D.(sociol), 62. Instr. SOCIOL, California Western, 58-61, asst. prof, 61-62; assoc. prof, Parsons Col, 62-64; asst. prof, SAN JOSE STATE COL, 64-67, ASSOC. PROF, 67- Summers, Nat. Sci. Found. award participant, inst. anthrop. for col. teachers, Univ. Colorado, 63, vis. scholar, inst. soc. res, Univ. Michigan, 64. Sociol. Asn; Nat. Coun. Crime & Delinquency; Pop. Asn; Regional Sci. Asn. Population problems; crime and delinquency; research methods. Publ: Measurement of economic differentiation, Vol. 5, No. 1 & Economic differentiation and social organization of standard metropolitan areas, Vol. 5, No. 2, J. Regional Sci. Address: Dept. of Sociology, San Jose State College, San Jose, Calif. 95114.

AMERMAN, DR. HELEN E(LY), b. Orange, N.J, Mar. 23, 16. SOCIOLOGY. B.A, Mich. State, 37; scholar, Stanford, 41-42, A.M, 44; Livingston fel, Chicago, 49-50, Ph.D.(sociol), 54; New Sch. Soc. Res, 46. Counsr, War Relocation Authority, 42, dir. guid, 43-45; co-dir, Surv. Nisei Returning to Seattle, YWCA, 45; workshop intercultural ed, San Francisco State Col, 46; admin. asst, Coun. Civic Unity San Francisco, 47-48, asst. dir, 56-59; asst. race rels, cmt. ed. training & res, Chicago, 48-49, 50-53, Am. Coun. Race Rel, 50; info. rep, Ill. Cmn. Human Rels, 54-55; res. assoc, Cmn. Race & Housing, 55-56; relocation officer, Oakland Redevelop. Agency, 59-64; dir. relocation & property mgt, Los Angeles Community Redevelop. Agency, 64-66; consult. urban probs, 67; DIR. URBAN DEVELOP, SANFORD R. GOODKIN RES. CORP, 67- Inst. coordinator, Nat. Conf. Christians & Jews, 46. Consult, intergroup ed, Inst. Race Rels, Fisk Univ, 51. Secy, tech. adv. cmt. intergroup rels, Chicago Pub. Schs, 50-52. Fel. Sociol. Asn; Asn. Intergroup Rel. Officials; Nat. Asn. Housing & Redevelop. Officials. Intergroup relations. Publ: Instruction in race relations in American colleges and universities; Race relations research in the field of education, In: Inventory research racial & cultural relations. Address: 2253 Moore St, Los Angeles, Calif. 90039.

AMES, PROF. DAVID WASON, b. Crawfordsville, Ind, May 30, 22; m. 48; c. 1. CULTURAL ANTHROPOLOGY. A.B, Wabash Col, 47; Ph.D.(anthrop), Northwestern, 53. Instr. cultural anthrop, Ill. Inst. Tech, 49-50; asst. prof, Wisconsin, 52-59; assoc. prof. ANTHROP, SAN FRANCISCO STATE COL, 61-66, PROF, 66- Am. Coun. Learned Socs-Soc. Sci. Res. Coun. Joint Cmt. African Studies res. fel, Nigeria, 63-64 & 66-67. U.S.A.A.F, 42-46. Fel. Anthrop. Asn; fel. African Studies Asn; Soc. Appl. Anthrop. Acculturation in West Africa and among New World Negroes; ethnography of the Wolof people in Senegal and the Gambia, Hausa of northern Nigeria, West Africa; economic anthropology; ethnomusicology. Publ: Wolof cooperative work groups, In: Continuity and change in African cultures, Univ. Chicago, 58; The rural Wolof of the Gambia, In: Markets in Africa, Northwestern, 62; Hausa music (two phonograph discs, notes & photographs), In: Anthology of

African music, UNESCO, Vol. I, 67 & Vol. II, 68. Address: Dept. of Anthropology, San Francisco State College, San Francisco, Calif. 94132.

AMES, PROF. EDWARD, b. New York, N.Y, Oct. 8, 21; m. 61; c. 4. ECONOMICS. A.B, Harvard, 42, A.M, & M.P.A, 47, Ph.D.(econ), 52. From instr. to asst. prof. econ, Amherst Col, 47-51; economist, Fed. Reserve Bd, D.C, 51-54; assoc. prof. ECON, PURDUE, 54-60, prof, 60-67, LOEB PROF, 67- Economic aspects of technical change; comparative economic systems. Address: Dept. of Economics, Purdue University, Lafayette, Ind. 47907.

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AMES, DR. LOUISE BATES, b. Portland, Maine, Oct. 29, 08; m. 30; c. 1. PSYCHOLOGY. A.B, Maine, 30, M.A, 33, hon. Sc.D, 57; Ph.D.(psychol), Yale, 36; Sc.D, Wheaton Col.(Mass), 67. Secy. & asst. psychol, Maine, 31-33; asst. to Dr. Gesell, clin. child develop, YALE, 33-36, res. secy, 36-38, asst, 38-40, instr, 40-44, asst. prof, 47-50, curator child develop. films, 44-50, ASSOC. DIR, GESELL INST, 50- Psychol. Asn; fel. Soc. Res. Child Develop; Int. Coun. Psychol. Child development; development of motor functions of personality and of age levels from fetal period through adolescence; growth and development. Publ: Co-auth, Child Rorschach responses; Child behavior; School readiness, Harper, 65. Address: Gesell Institute of Child Development, 310 Prospect St, New Haven, Conn. 06511.

AMICK, PROF. H(AROLD) C(LYDE), Geog, Geol, see 10th ed, Soc. & Behav. Vols.

AMIRIE, DR. ABBAS, b. Mehallat, Iran, Mar. 13, 33; m. 62; c. 2. POLITICAL SCIENCE. B.A, Eureka Col, 62, M.A, Southern Illinois, 64, Ph.D.(polit. sci), 67. Instr. POLIT. SCI, Southern Illinois, 64-66; ASST. PROF, KENT STATE, 66- Participant, faculty inst. Mid. East. affairs, Hamline, summer 68. Mem, Midwest Conf. Polit. Scientists, 64-; Midwest Conf. Asian Affairs, 66- Iranian Air Force, 50-57, 1st Lt. Polit. Sci. Asn. International relations; comparative governments, especially governments and politics of the Middle East. Address: Dept. of Political Science, 310 Bowman Hall, Kent State University, Kent, Ohio 44240.

AMIS, PROF. LEWIS N(EAL), Econ, see 10th ed, Soc. & Behav. Vols.

AMIS, DR. WILLIAM D(AUGHETY), b. Brownwood, Tex, Aug. 13, 25; m. 56. SOCIOLOGY. A.B, Swarthmore Col, 49; Ph.D.(sociol), North Carolina, 59. Asst, inst. res. soc. sci, North Carolina, 51-52, 53-54; asst. prof. SOCIOL, Ga. State Col, 55-58; instr, Emory, 58-59; asst. prof, Wake Forest Col, 59-61; ASSOC. PROF, GA. STATE COL, 61- Summer vis. lectr, Georgia, 59. U.S.A, 45-46. Sociol. Asn; Pop. Asn; Soc. Study Soc. Probs. Social psychology; medical sociology; sociological theory. Address: Dept. of Sociology, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

AMLUND, DR. CURTIS ARTHUR, b. Fargo, N.Dak. POLITICAL SCIENCE. B.A, Minnesota, 52, Ph.D.(polit. sci), 59. Instr. POLIT. SCI, Minnesota, 59; Oregon, 59-60; vis. lectr, Wisconsin, 61; asst. prof, N.DAK. STATE, 61-65, ASSOC. PROF, 65- U.S.A, 46-47, 52-54, Capt. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Association of language forms with political science concepts. Publ: Federalism in the southern confederacy, Pub. Affairs, 66; President-ranking, Midwest J. Polit. Sci, 64; Toward the establishment of world law, Southwest. Soc. Sci. Quart, 65. Address: Dept. of Political Science, North Dakota State University, Fargo, N.Dak. 58102.

AMMEN, DR. CLEO C(HRISOF), b. Baltimore, Md, Aug. 6, 04; m. 40. PSYCHOLOGY. A.B, Goucher Col, 30; Sage scholar & fel, Cornell, 37, 38, Ph.D. (exp. psychol), 38. Asst, div. standards & res, U.S. Employ. Serv, D.C, 38-39; assoc. personnel res. technician, Children's Bur, 40; state tech. adv. serv, Soc. Security Admin, 41-42, personnel methods consult, Ill, 42-43, employee counsr, Md, 47-51; clin. psychologist, ment. hyg. clin, Vet. Admin, Baltimore, Md, 51-52; private practice, 52-54; sr. psychologist, div. spec. serv, Dept. Ed, 54-57, specialist, 57-60; assoc. prof. psychol, Towson State Col, 60-67; CLIN. PSYCHOLOGIST, 67- Psychol. Asn. Psychology of thought processes. Address: P.O. Box 5477, Towson, Md. 21204.

AMMERMAN, DR. HARRY L(LOYD), b. Lancaster, Pa, Aug. 21, 30; m. 54; c. 1. INDUSTRIAL PSYCHOLOGY. B.S, Arizona State, 56; M.S, Purdue, 58, Ph.D, 60. Asst, Purdue, 58-60; res. assoc, U.S. Army Air Defense Human Res. Unit, Ft. Bliss, 60-61, res. scientist, 61-65, SR. SCIENTIST, DIV. NUMBER FIVE, HUMRRO, 65- U.S.A.F, 50-54, Sgt. Psychol. Asn. Job analysis methodology; military officer and other supervisory position training programs; applied psychological statistics. Publ: Co-auth, Development of worker activity check lists for use in occupational analysis, Tech. Report 60-77, Wright Air Develop. Div. Res. Lab, 7/60; auth, Development of procedures for deriving training objectives for junior officer jobs, HumRRO Tech. Report 66-3, 5/66; co-auth, Derivation, analysis and classification of instructional objectives, HumRRO Tech. Report 66-4, 5/66. Address: 5108 Yvette Ave, El Paso, Tex. 79924.

AMMERMAN, DR. HOWARD K(ENDALL), b. Cynthiana, Ky, Apr. 14, 15; m. 47; c. 2. ECONOMICS. B.S, Kentucky, 41; M.A, Chicago, 50, Ph.D.(int. econ), 56. Asst. prof. bus. statist, Oklahoma, 54-55; econ, Rhode Island, 56-59; ECON. & BUS, MONTGOMERY JR. COL, 59-60, ASSOC. PROF, 61- U.S.A, 42-46. Econ. Asn. International economics; money, banking and monetary policy; economic theory. Address: Dept. of Economics & Business, Montgomery Junior College, Rockville, Md. 20850.

AMMONS, DR. CAROL H(AMRICK), b. Tampa, Fla, Feb. 22, 27; m. 49; c. 7. PSYCHOLOGY. B.A, Tulane, 47, M.A, 49; Haagen scholar, Kentucky, 51-53, Ph.D.(psychol), 55. ED, PERCEPTUAL & MOTOR SKILLS, 49-53, 54-; PSYCHOL. REPORTS, 54- Lectr, Louisville, 49-53, res. assoc, 50-55. Private practice, 50- Consult, Found. Sci. Study Human Behav, Inc, 49-55; Prentice-Hall Pub. House, 53. AAAS; Psychol. Asn; Psychomet. Soc; Psychonomic Soc; Int. Coun. Psychol.(secy, 65-68). Perception; learning. Publ: Co-auth, Central and peripheral factors in the Phi Phenomenon, J. Exp. Psychol. & Aggression in doll-play interviews of two-to six-year old white males', J. Genetic Psychol; Experimental study of temporary and permanent inhibitory factors in the acquisition of a simple perceptual-motor skill, J. Gen. Psychol. Address: Box 1441, Missoula, Mont. 59801.

AMMONS, PROF. ROBERT B(RUCE), b. Denver, Colo, Feb. 27, 20; m. 40, 49; c. 8. PSYCHOLOGY. A.B, San Diego State Col, 39; California, Los Angeles, 39-40; A.M, Iowa, 41, Ph.D.(psychol), 46. Consult. psychologist, 42-43; vis. instr. ed. psychol, Syracuse, 46; asst. prof. PSYCHOL, Denver, 46-48; Tulane, 48-49; Louisville, 49-55; assoc. prof, North Dakota, 56-57; PROF, MONTANA, 57- With South. Univs. Press, 48-, Psychol. Reports & Perceptual & Motor Skills, 49-; Psychol. Test Specialists, 55- Psychol. Asn; Psychomet. Soc; Statist. Asn; Speech & Hearing Asn; Psychonomic Soc; Soc. Gen. Syst. Res; Brit. Psychol. Asn. Rigorous theory of behavior; application of experimental methods to problem solving; learning theory. Publ: Acquisition of motor skills, J. Exp. Psychol; Experiential factors in visual form perception, J. Genetic Psychol. Address: Dept. of Psychology, University of Montana, Missoula, Mont. 59801.

AMOROSO, DR. DONALD (MARCELLINUS), b. Trinidad, W.I, June 1, 26; m. 63; c. 2. SOCIAL PSYCHOLOGY. B.A, Toronto, 61, M.A, 62; Ont. Govt. fel, Waterloo, 63-65, Laidlaw Found. fel, 65-66, Ph.D.(psychol), 66. Psychologist, Workmen's Compensation Bd, Ont, 62-63; lectr. PSYCHOL, WATERLOO, 65-66, ASST. PROF, 66- Can. Coun. study grant, 67-68. Psychol. Asn. Effect of anxiety on human learning; measurement of anxiety, including physiological indices; personality and behavioral concomitants of birth order. Publ: Co-auth, Social comparison and ordinal position, J. Personality & Soc. Psychol, 65; co-auth, Cognitive and emotional determinants of imitative behavior, Brit. J. Soc. & Clin. Psychol, 67. Address: Dept. of Psychology, University of Waterloo, Waterloo, Ont, Can.

AMOS, PROF. JOHN MAX, b. Council Grove, Kans, July 25, 30; m. 58; c. 1. BUSINESS MANAGEMENT, ECONOMICS. B.S.(bus. admin) & B.S.(agr. econ), Kansas State, 56, M.S, 57; Ph.D, Ohio State, 60. Asst, Kansas State, 56-57, instr, 57-58; asst. prof. mgt. & acct, 60-64; asst. instr, Ohio State, 58-60; assoc. prof. mgt, Tulsa, 64-66; PROF. PROD. MGT, MINUTEMAN SCH, U.S. AIR FORCE INST. TECH, MINOT AIR FORCE BASE, N.DAK, 66- Soc. Sci. Res. Coun. grant. Consult, Ind. Farm Bur. Coop. Asn, 63-; space & info. syst. div, N.Am. Aviation, Inc, 64-65; Pub. Serv. Co. Okla, 66; McDonnell Douglas Corp; summer commercial eng. consult, Southwest. Bell Tel, 63. Econ. Asn; Acad. Mgt; Agr. Econ. Asn; Inst. Mgt. Sci. Effectiveness of management principles and concepts under continuous automation; computor simulation; programming. Publ: St. Lawrence Seaway and Ohio's wheat & Truck shipment of Ohio grain, Ohio Agr. Exp. Sta. Pubs; Educational aspects of business games, J. Bus. Ed, 64. Address: Dept. of Production Management, Minuteman School, U.S. Air Force Institute of Technology, Minot Air Force Base, N.Dak. 58701.

AMOS, DR. WILLIAM EARL, b. Charleston, Ark, July 20, 26; m. 52; c. 4. HUMAN DEVELOPMENT. B.S.E, Ark. State Col, 49; M.A, Tulsa, 50; Grant Found. fel, Maryland, 58-60, M.Ed, 59, Ed.D, 60. Supt, pub. schs, Cabot, Ark, 49-51; spec. agent, U.S. Secret Serv, 56-58; supt, Cedar Knoll Training Sch, 60-63; chief div. youth employ, U.S. Employ. Serv, 63-65; asst. dir, President's Crime Cmn. for Dist. Columbia, 65-67; CHIEF DIV. COUNSELING & TESTING, U.S. EMPLOY. SERV, 67- Lectr, George Washington, 60- Consult, Nat. Cmt. Children & Youth, 62-; Nat. Planning Asn, 68- U.S.A, 45-46, 51-56, Maj. Acad. Polit. & Soc. Sci; Psychol. Asn; Personnel & Guid. Asn. The accuracy of the self-concept of juvenile delinquents; the effectiveness of counseling with disadvantaged youth. Publ: Co-auth, Delinquency prevention: theory and practice, 67 & co-ed, Counseling disadvantaged youth, 68, Prentice-Hall; co-auth, Managing student behavior, Warren H. Green, Inc, 68. Address: 9235 Limestone Place, College Park, Md. 20740.

AMOSS, PROF. HAROLD L(INSAY), JR, b. New York, N.Y, June 15, 18; m. 42; c. 5. ANTHROPOLOGY. B.A, North Carolina, 42; M.A, New Mexico, 47; Ph.D, California, 51. Planning officer, Asia Found, 52-53, acting dir. plans, 53-54, rep, Afghanistan, 54-58, dir. res, 58, consult, 59-60; asst. prof. anthrop, Colorado, 59-64, acting dir. off. int. ed, 61-62, dir, 62-63, faculty fel, 63-64; LECTR. ANTHROP. & DIR. BUR. COMMUNITY DEVELOP, WASHINGTON (SEATTLE), 64- Wenner-Gren award, 63-64; consult, American Univ, 60-61; various Peace Corps Prog. & Bur. Indian Affairs, 61- U.S.A.A.F, 41; civilian flight instr, R.A.F, 42-45. Anthrop. Asn; Univ. Exten. Asn. Applied cultural anthropology; Middle East. Publ: Ed, Water: Measuring and meeting future requirements, 61 & co-ed, Land and water, 62, Univ. Colorado; auth, Story of Afghanistan, McCormick, 65. Address: Bureau of Community Development, 316 Lewis Hall, University of Washington, Seattle, Wash. 98105.

AMRHEIN, PROF. JOSEPH, JR, b. Boston, Mass, Oct. 2, 21; m. 46; c. 3. ECONOMICS, FINANCE. B.S, Mass. Inst. Tech, 44; M.B.A, Boston, 46; M.A, Vermont, 52; Ph.D.(econ), N.Y. Univ, 58. Mem. staff, off. sci. res. & develop, U.S. Govt, 45-46; PROF. FINANCE & ECON, ST. MICHAEL'S COL, 46- Lectr, Am. Inst. Banking, 57-60, 66-; rep, W.E. Hutton & Co, 60-61. Mem. State Govt. Study Cmn, Vt, 57-58. Econ. Asn. American economic history; the securities fields. Publ: Co-auth, College business mathematics. Address: Dept. of Business Administration & Economics, St. Michael's College, Winooski, Vt. 05404.

AMSEL, PROF. ABRAM, b. Montreal, Que, Dec. 4, 22; nat; m; c. 3. PSYCHOLOGY. B.A, Queen's (Ont), 44; M.A, McGill, 46; Ph.D.(theoret. exp. psychol), Iowa, 48. Asst, Allan Mem. Inst. Psychiat, 45-46; PSYCHOL, Iowa, 46-48; asst. prof, Newcomb Col, Tulane, 48-52, assoc. prof, 52-56, PROF, 56-60; TORONTO, 61- Nat. Sci. Found. res. grants, 58-68, sr. res.

fel, Univ. Col, London, 66-67; Nat. Res. Coun. Can. res. grants, 63-67. Psychol. Asn; Psychonomic Soc; Soc. Exp. Psychol. Learning theory; secondary motivational states; motivational and inhibitive properties of frustration; frustrative effects in partial reinforcement and discrimination; conditioning. Publ: Selective association and the anticipatory goal response mechanism as explanatory concepts in learning theory; Role of frustrative nonreward in noncontinuous reward situations, Psychol. Bull, 58; Partial reinforcement effects on vigor and persistence, In: Psychology of learning and motivation, Vol. I, Academic, 67. Address: Dept. of Psychology, University of Toronto, Toronto 5, Ont, Can.

AMSPOKER, DR. GERTRUDE JOANNE, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

AMSTADT, ERVIN C(ARL), b. Chicago, Ill, Aug. 22, 30; m. 52; c. 4. ECONOMICS. B.A, DePaul, 54; M.S, California Western, 67. Eng. planner, Gen. Dynamics/Astronaut, 56-59; opers. planner, Lockheed Missiles & Space Co, 59-61; dept. mgr, Philco West. Develop. Labs, 61-63; sr. engr, Edgerton, Germeshausen & Grier, Inc, 63-65; RES. DIR, BOOZ-ALLEN APPL. RES, INC, 65- U.S.M.C, 54-56, Res, 51-60, Capt. Inst. Aeronaut. & Astronaut; Am. Ord. Asn; Opers. Res. Soc. Am. System and cost effectiveness; operations research; systems analysis and engineering; technical project planning, evaluation and control. Address: 1097 Alexandria Dr, San Diego, Calif. 92107.

AMSTER, PROF. CLARENCE H(OWARD), b. New Albany, Ind, Apr. 8, 23; m. 41. PSYCHOLOGY. A.B, Louisville, 48, M.A, 50; Chicago, 51-52. Instr. PSYCHOL, LOUISVILLE, 53-59, ASST. PROF, 60- Consult. psychologist, State Dept. Ment. Health, Ky, 54-56; urban studies center, Univ. Louisville, 67- Social and community psychology; poverty and social change; leadership; opinions; perception; communications. Publ: Co-auth, Comprehension of rapid speech by the blind. Address: Dept. of Psychology, University of Louisville, Louisville, Ky. 40208.

AMSTER, DR. HARRIETT A, b. Philadelphia, Pa, Mar. 22, 29; m. 52; c. 2. PSYCHOLOGY. A.B, Bryn Mawr Col, 50; M.A, Clark, 54, Ph.D.(psychol), 57. Res. assoc. psychol, Tufts, 52-53; asst, Clark, 54-55, res. assoc, 57; trainee, Worcester State Hosp, Mass, 57-58; jr res. psychologist, CALIFORNIA, BERKELEY, 58-59, asst. res. psychologist, inst. personality assessment & res, 59-64, ASSOC. RES. PSYCHOLOGISTS, INST. HUMAN LEARNING, 64-, LECTR PSYCHOL, 58- Vis. asst. prof, Mills Col, 60; career develop. award, 65- AAAS; Psychol. Asn; Psychonomic Soc. Verbal learning in children; associative processes; concept formation. Address: 671 Santa Barbara Rd, Berkeley, Calif. 94707.

AMSTUTZ, DR. ARNOLD EVERETT, b. Saginaw, Mich, July 31, 36; m. 59. INDUSTRIAL MANAGEMENT. S.B, Mass. Inst. Tech, 58, Ph.D.(polit. sci), 65. Res. assoc. MGT, MASS. INST. TECH, 61-62, asst. prof, 62-67, ASSOC. PROF, 67- Ford Found. faculty fel, 67-68; founder, officer & dir, Sci. Develop. Corp, Mass, 59-62; founder & dir, Adv. Anal. Co, N.Y, 61-67; Decision Tech. Inc, Mass, 64-; limited partner, Jesup & Lamont, N.Y, 65- Consult. to pres, Waddell & Reed Inc, Mo, 67- Asn. Comput. Mach; Inst. Mgt. Sci; Acad. Polit. Sci. Systems analysis; micro analytic behavioral simulation; management information and control systems; artificial intelligence. Publ: Computer simulation of competitive market response, M.I.T. Press, 67; The marketing executive and management information systems, Am. Mkt. Asn, 66; co-auth, Simulation techniques in the analysis of marketing strategy, In: Applications of the sciences in marketing management, Wiley, 67. Address: Dept. of Management, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

AMTOWER, PROF. HARRY W(EBSTER), b. Cumberland, Md, June 24, 15; m. 45. SOCIOLOGY. A.B, American Univ, 39; B.D, Drew, 42; M.A, Maryland, 47; Hopkins, 57-61. Asst. prof. SOCIOL, BALTIMORE, 47-63, ASSOC. PROF, 63- Minister, Methodist Church. Mem, Groves Conf. Marriage & Family. U.S.N, 43-46. Sociol. Asn; Nat. Coun. Family Rels. Religious attitudes; marriage counseling; community organization. Address: 6722 Glenkirk Rd, Baltimore, Md. 21212.

AMUNDSON, PROF. ROBERT H(AROLD), b. La Crosse, Wis, Nov. 18, 24; m. 47; c. 3. SOCIOLOGY. M.A, Notre Dame, 52, fel, 52-54, Ph.D, 56; M.A, Colorado, 67. From acting chmn. dept. SOCIOL. to asst. prof. & chmn. dept, LORETTO HEIGHTS COL, 55-64, PROF. & DIR. RES. CENTER ON WOMAN, 64- Nat. Sci. Found. fel, Colorado, 66-67; Fulbright award, Univ. Delhi & Summer Inst. Indian Civilization, Univ. Mysore, 63. U.S.A, 43-46. Sociol. Asn; Soc. Appl. Anthrop. Population; anthropology; family. Publ: Social class and delinquency, In: Papers in the behavioral Sciences, West. Interstate Cmn. Higher Ed, 8/63; India's third five year plan, Rev. Soc. Econ, 9/64; Problemi demografici e piani ficazione in India, In: Mercurio: Sintesi del pensiero economico e sociale contemporaneo, 3/65. Address: Dept. of Sociology, Loretto Heights College, 3001 S. Federal Blvd, Denver, Colo. 80236.

AMUZEGAR, DR. JAHANGIR, b. Tehran, Iran, Jan. 13, 20; m. 58. ECONOMICS. B.A, Tehran, 41 & 42; M.A, Washington (Seattle), 48; Ph.D.(econ), California, Los Angeles, 55. Asst, California, Los Angeles, 51-53; lectr, Whittier Col, 53; econ, Michigan, 53-55; asst. prof, Pomona Col, 55-56; Mich. State, 56-58; assoc. prof, Occidental Col, 58-60; Minister of Commerce, 61-62, Minister of Finance, 62, AMBASSADOR-AT-LARGE & CHIEF IRANIAN ECON. MISSION, D.C, 63-; LECTR. ECON, MARYLAND, 63-Brookings res. prof, 60-61. Consult, Iran Govt, 56-57; mem, Coun. Money & Credit, High Econ. Coun. & chmn. bd, Foreign Trade Co, 61-62; mem. bd. dirs, Bank Melli Iran, 61-62; chmn, High Coun, Nat. Iranian Oil Co, 62. Econ. Asn; Iranian Statist. Soc. Role of foreign technical and economic assistance in the development of underdeveloped areas. Publ: Technical assistance in theory and practice: the case of Iran, Praeger, 66; Nationalism versus economic growth, Foreign Affairs, 7/66; Economic systems in search of nations, Soc. Res, spring 68. Address: 2233 Wisconsin Ave. N.W, Washington, D.C. 20007.

AN, DR. NACK YOUNG, b. Pyongyang, Korea, Jan. 25, 36; m. 61; c. 3. POLITICAL SCIENCE. B.A, Berea Col, 61; Ph.D.(govt), Virginia, 65. ASST. PROF. POLIT. SCI, VA. POLYTECH, 64- French presidency; German radicalism. Publ: A king log or cornerstone?; the presidency of Vincent Auriol, Va. Soc. Sci. J, 66; President Vincent Auriol and the external affairs, Parliamentary Affairs, 67; Nationaldemokratische Partei Deutschlands (NPD): the resurgence of Nazism or an innocuous anomaly?, In: German politics, Heath, 68. Address: Dept. of Political Science, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

AN, DR. TAI-SUNG, b. Seoul, Korea, Feb. 3, 31. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Indiana, 56; M.A, Yale, 57; Ph.D.(int. rels), Pennsylvania, 63. Res. assoc, for. policy res. inst, Pennsylvania, 63-64; asst. prof. POLIT. SCI, WASHINGTON COL, 63-67, ASSOC. PROF, 67-, CHMN. DEPT. POLIT. SCI. & INT. STUDIES, 68-, dir. int. studies prog, 66-68. Shell Found. res. grant, 68- Polit. Sci. Asn. Mao Tse-tung's cultural revolution. Publ: The Sino-Soviet dispute and Vietnam, Orbis, summer 65; New winds in Pyongyang?, Probs. Communism, 7-8/66; The 1954 Geneva Accords revisited, Intercollegiate Rev, 11-12/67. Address: Dept. of Political Science & International Studies, Washington College, Chestertown, Md. 21620.

ANABTAWI, DR. SAMIR NAZMI, b. Jaffa, Palestine, Dec. 4, 33; U.S. citizen; m. 59; c. 2. POLITICAL SCIENCE. B.A, Oberlin Col, 55; M.A, Yale, 56, Ph.D.(int. rels), 60. Instr. govt, Dartmouth Col, 59-61, asst. prof, 61-62; POLIT. SCI, California, Davis, 62-63; VANDERBILT, 63-66, ASSOC. PROF, 66- Res. assoc, Center Int. Studies, Princeton, 66. Polit. Sci. Asn. International organization and politics; Middle East politics. Publ: The Afro-Asian states and the Hungarian question, Int. Orgn, 63; Neutralists and neutralism, J. Polit, 65. Address: Dept. of Political Science, Vanderbilt University, Nashville, Tenn. 37203.

ANAGNOS, PROF. NICHOLAS C, b. Kefalovryssi, Greece, May 10, 11; U.S. citizen; m. 48. ECONOMICS. B.A, Nat. Univ. Athens, 33, LL.B, 36, B.A, 37, Ph.D.(econ), 55; M.A, Columbia, 40; Harvard, 44-45. Researcher econ, Supreme Econ. Coun. Greece, 36-38; clerk, Bank Athens Trust Co, New York, 40-43; consult. econ, For. Econ. Admin, 43-44; res. statistician, War Shipping Admin, 46; PROF. ECON, HOWARD, 46- res. grant in aid, 66-67. Lectr, American Univ, 49-; Wash. Int. Center, 51-54; Econ. in Action Prog. summer fel, Repub. Steel Corp-Case Inst. Tech, 52; Fulbright lectr, Nat. Univ. Athens, 54-55; summer lectr, Catholic Univ, 65- Greek Army, 33-35. AAAS; Econ. Asn; Asn. Comp. Econ. History of economic thought; statistical theory. Publ: Greek transl, Statistical methods, Houghton, 55; Methodological approach to the problem of multiple correlation, Econ. & Soc, Athens, Greece, 61; The economic theory of the Austrian school, Estia, 65. Address: Dept. of Economics, Howard University, Washington, D.C. 20001.

ANAPOL, DR. MALTHON M, Speech, Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

ANAST, DR. PHILIP, b. Waco, Tex, Aug. 26, 19; m. 64. PSYCHOLOGY, COMMUNICATIONS. B.A, Baylor, 41, M.A, 46 & 54; Ph.D.(commun), Wisconsin, 60. Asst. prof. psychol, Alaska, 60-62, assoc. prof, 63-65; asst. prof. commun, Boston, 62-63; asst. prof. psychol, East. Wash. State Col, 65-66; commun, Washington State, 66-67; ASSOC. PROF. PSYCHOL, EAST. WASH. STATE COL, 67- U.S. Merchant Marine, 43-45. Psychol. Asn; Asn. Ed. Journalism. Attraction to and effects of mass media entertainment; psycholinguistics; broad attitudinal dispositions. Publ: Similarity between self and fictional character choice, Psychol. Record, 10/66; Personality determinants of mass media preferences, winter 66 & Differential movie appeals as correlates of attendance, spring 67, Journalism Quart. Address: Dept. of Psychology, Eastern Washington State College, Cheney, Wash. 99004.

ANASTAPLO, DR. GEORGE, b. St. Louis, Mo, Nov. 7, 25; m. 49; c. 4. POLITICAL SCIENCE, PHILOSOPHY. A.B, Chicago, 48, J.D, 51, Ph.D.(constitutional law), 64. LECTR. LIB. ARTS, CHICAGO, 56-; PROF. POLIT. SCI. & PHILOS, ROSARY COL, 64- U.S.A.F, 44-47, 2nd Lt. American government and constitutional law; classical and modern political philosophy; modern Greek history and politics. Publ: Human being and citizen: a beginning to the study of Plato's Apology, In: Ancients and moderns, Basic Books, 64; Law and morality: on Lord Devlin, Plato's Meno and Jacob Klein, Wis. Law Rev, winter 67; Retreat from politics: Greece, 1967, Mass. Rev, 3/68. Address: 5731 S. Harper Ave, Chicago, Ill. 60637.

ANASTASI, PROF. ANNE, b. New York, N.Y, Dec. 19, 08; m. 33. PSYCHOLOGY. A.B, Columbia, 28, Ph.D.(psychol), 30. Lectr. PSYCHOL, Barnard Col. & asst, Columbia, 29-30, instr, 30-39; asst. prof, Queens Col.(N.Y), 39-46; assoc. prof, FORDHAM, 47-51, PROF, 51- Lectr, Barnard Col, Columbia, 46; Wisconsin, 51; Minnesota, 59. Consult, Col. Entrance Exam. Bd, 54-56; U.S. Off. Ed; Off. Econ. Opportunity, Vet. Admin. & New York City Bd. Ed. Mem. cmt. sci. ed, Nat. Sci. Found, 63-67. Fel. Psychol. Asn.(recording secy, 52-55); Psychomet. Soc; Psychonomic Soc; Psychol. Found. (pres, 65-67). Publ: Differential psychology, 39, 49 & 58 & Psychological testing, 54, 61 & 68, Macmillan; Fields of applied psychology, McGraw, 64. Address: Dept. of Psychology, Fordham University, New York, N.Y. 10458.

ANASTASIO, DR. ANGELO, b. Waterbury, Conn, Oct. 29, 14; m. 48; c. 3. ANTHROPOLOGY, SOCIOLOGY. M.A, Chicago, 52, Ph.D, 55. Instr. ANTHROP. & SOCIOL, Reed Col, 54-55; WEST. WASH. STATE COL, 55, asst. prof, 56-61, assoc. prof, 61-68, PROF, 68- Res. assoc, Washington State, 58-59. U.S.A, 41-47, Capt. Fel. Anthrop. Asn. Ethnomusicology; theory; community studies; area studies. Publ: Port Haven: a changing northwestern community. Address: Dept. of Sociology & Anthropology, Western Washington State College, Bellingham, Wash. 98225.

ANDAL, DR. MELVIN E(MIL), b. Spooner, Sask, Can, Mar. 7, 21; m. 47; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Saskatchewan, 44, M.Sc, 47; Ph.D, Mich. State, 54. Economist, ECON. BR, CAN. DEPT. AGR, 44-57, chief prod. econ, 57-62, ASSOC. DIR, 62- Adv, Can. Govt. Del, Int. Labor Conf, 60. Farm Econ. Asn; Agr. Inst. Can; Can. Agr. Econ. Soc.(pres, 58-59). Production economics research and policy. Address: Economics Branch, Canada Dept. of Agriculture, Ottawa, Ont, Can.

ANDERHALTER, PROF. O(LIVER) F(RANK), b. Trenton, Ill, Feb. 14, 22; m. 45; c. 3. PSYCHOLOGY. B.Ed, East. Ill. State Col, 43, hon. Ped.D, 56; M.A, St. Louis, 47, Ph.D, 49. Instr. math, ST. LOUIS, 45-46, from instr. to assoc. prof. ED, 47-57, PROF, 57-, DIR. BUR. INST. RES, 49-, DIR. YALEM SCI. COMPUT. CENTER, 62- Dir. test develop, Scholastic Testing Serv, Inc, 53- U.S.N.R, 44-45, Lt. Psychomet. Soc; Statist. Asn; Coun. Measurement in Ed. Test construction and development; personnel selection and placement; scale development and analysis. Publ: Co-auth, Educational development series, 66 & auth, STS high school placement battery, 67, Scholastic Testing Serv. Address: Dept. of Education, St. Louis University, St. Louis, Mo. 63108.

ANDERS, PROF. SARAH FRANCES, b. Monroe, La, Jan 5, 27. SOCIOLOGY. A.B, La. Polytech, 56; M.R.E, South. Baptist Theol. Sem, 48; M.A, Fla. State, 52, Ph.D.(sociol), 55. Dir. music & ed, First Baptist Church, Quincy, Fla, 48-51, dir. ed, Gadsden, Ala, 52-53; res. asst. sociol, Fla. State 51-52, dir. res. lab, 53-55; PROF. SOCIOL. & CHMN. DEPT, Mary Hardin-Baylor Col, 55-62; LA. COL, 62- Summers, vis. lectr, Southern Methodist, 61, Nat. Sci. Found. fel, Rennselaer Polytech, 65. Mem, Governor's Cmt. Youth, Tex, 59. Sociol. Asn. Race relations; marriage and the family; social psychology. Publ: Observable religious behavior among church families, Marriage & Family Living, 2/55; Political attitudes among college women, J. Ed. Psychol, 2/57; co-auth, Child rearing attitudes & ethnic factors among institutional attendants, J. Ment. Deficiency, winter 67. Address: Dept. of Sociology, Box 817, Louisiana College, Pineville, La. 71360.

ANDERSEN, DR. ARTHUR T, b. New York, N.Y, July 4, 32. ECONOMICS. B.A, City Col. New York, 54; Case Inst. Econ. in Action fel, Harvard, 60, Ph.D.(econ), 61. Instr. econ, Mass. Inst. Tech, 57-58; Maryland, 58-60; asst. prof, Boston, 60-64; economist, BUR. ECON, FED. TRADE CMN, 64-66; CHIEF DIV. INDUST. ANAL, 66- Lectr, Maryland, 67- Econ. Asn; Econ. Hist. Asn; Acad. Polit. & Soc. Sci. Publ: Co-auth, Mergers and vertical integration in the cement industry, Govt. Printing Off, 66 & Webb-Pomerene associations: a 50-year review, Fed. Trade Cmn, 67. Address: 349 Tenth St, S.E, Washington, D.C. 20003.

ANDERSEN, DR. LEONALL C, b. Marshall, Minn, Nov. 9, 24; m. 47; c. 4. ECONOMICS. B.S, Gustavus Adolphus Col, 49; M.S, Illinois, 52; Ph.D. (econ), Minnesota, 62. Asst. prof. econ, St. Olaf Col, 55-62; economist, FED. RESERVE BANK ST. LOUIS, 62-65, sr. economist, 65-66, V.PRES, 66- U.S.A, 43-46. Econ. Asn; Finance Asn; Economet. Soc; Statist. Asn. Monetary economics; central banking. Publ: The incidence of monetary and fiscal measures on the structure of output, Rev. Econ. & Statist, 8/64; Money market conditions as a guide for monetary management, Papers & Proc. Univ. California, Los Angeles Conf. Guides & Targets Monetary Policy, (in press); Federal reserve defensive operations and short-run control of the money stock, J. Polit. Econ, 4/68. Address: Federal Reserve Bank, P.O. Box 442, St. Louis, Mo. 63166.

ANDERSEN, PROF. OLGA A, b. Denver, Colo, Jan. 16, 05. GEOGRAPHY, EDUCATION. A.B, Nebr. Wesleyan, 39; M.A, Nebraska, 41. Teacher, jr. high sch, Nebr, 27-53; substitute teacher, pub. schs, 53-54; county supt, Sarpy County, 54-61; ASSOC. PROF. ED, CALIF. STATE COL.(PA), 61-Instr, West. Ill. State Col, 46-47. Summer instr, Nebraska, 44-45, Southwest Mo. State Col, 46, 48, 49 & Dana Col, 61. Asn. Am. Geog; Nat. Coun. Geog. Ed. Elementary and secondary content subjects. Publ: Do you know your state?, Independent Woman, 3/53; Creativity supports motivation in geography, Pa. Geogr, 2/66. Address: Dept. of Education, California State College, California, Pa. 15419.

ANDERSEN, PROF. R. CLIFTON, b. Chicago, Ill, Apr. 8, 33; m. 55; c. 2. MARKETING, BUSINESS ADMINISTRATION. B.S, Indiana, 55, M.B.A, 58, Ford Found. fels, 58-60, D.B.A, (mkt, econ), 60. Asst. prof. MKT, Texas, 60-63, assoc. prof, 63-67; PROF, SOUTHERN ILLINOIS, 67- U.S.A, 55-57. Mkt. Asn. Marketing channels and distribution systems; general marketing management. Publ: Co-ed, Marketing insights: selected readings, 1st ed, 63, 2nd ed, 68, Appleton; co-auth, Patterns of communication in marketing organizations, J. Mkt, 65. Address: Dept. of Marketing, Southern Illinois University, Carbondale, Ill. 62901.

ANDERSEN, DR. RAOUL RANDALL, b. Chicago, Ill, Jan. 5, 36; m. 60; c. 2. CULTURAL ANTHROPOLOGY. B.A, Knox Col, 58; M.A, Emory, 64; Ph.D. (anthrop), Missouri, Columbia, 68. Acting instr. sociol. & anthrop, Col. William & Mary, 59-60; instr. sociol, Missouri, Columbia, 61-63; ASST. PROF. ANTHROP, North Dakota, 63-66; MEMORIAL UNIV, 66-, res. fel, Inst. Soc. & Econ. Res, 66-69. Vis. instr, Alberta, summer, 64; Nat. Mus. Can, ethnol. div. anthrop. res. grant, 64-65; Univ. North Dakota Faculty Res. Coun. archaeol. surv. grant, 64-65. Consult, Dept. Fisheries, Ottawa, 67-68. Fel. Anthrop. Asn; Ethnol. Soc; Soc. Appl. Anthrop; Sociol. Asn. Ethnology and social anthropology, with special interests in culture change; occupational organization in developing societies; fishing and whaling; modern North American Indian reserve society; northern Plains. Publ: Co-auth, General sources for North Dakota archaeology, N.Dak. Quart, 64; auth, North Dakota archaeology to 1966, Plains Anthropologist, 66; Alberta stoney (assiniborin) origins and adaptations, Ethnohist, 69. Address: Dept. of Anthropology, Memorial University, St. John's, Newf, Can.

ANDERSEN, DR. SIGURD LOKKEN, Statist, see 10th ed, Soc. & Behav. Vols.

ANDERSON, ADOLPH V(ERNON), b. Spokane, Wash, Mar. 15, 18; m. 50; c. 1. PSYCHOLOGY. B.S, Washington (Seattle), 48. Res. psychologist, Bur. Naval Personnel, 51-52; head classification procedures br, U.S. Naval Personnel Res. Field Activity, 52-57; assoc. soc. scientist, Syst. Develop. Corp, Calif, 57-58; prog. dir, training res. dept, U.S. NAVAL PERSONNEL RES. ACTIVITY, SAN DIEGO, 58-62, DIR, TRAINING METHODS RES. DEPT, 62-U.S.A, 41-45. Personnel classification, evaluation and training. Publ: Form 2 of the sonar pitch memory test: development of the test; co-auth, Factor analysis of trade interest items & A performance oriented electronics technician training program. Address: 5746 Waverly Ave, La Jolla, Calif. 92037.

ANDERSON, PROF. AMOS C(AREY), b. Centerville, Pa, June 25, 97; m. 24; c. 2. PSYCHOLOGY. A.B, Michigan, 22, A.M, 24; Ph.D.(psychol), Yale, 31. Instr, Mich. State Teachers Col.(Mt. Pleasant), 22-23; head dept. PSYCHOL, N.Dak. State Teachers Col.(Mayville), 24-25; instr, OHIO, 25-26, asst. prof, 26-31, assoc. prof, 31-38, prof. 38-67, EMER. PROF, chmn. dept, 42-52. Vis. prof, Wilmington Col, 67-68. Fel. Psychol. Asn. Human and animal learning; discrimination. Publ: Time discrimination in the white rat; Runaway time and goal gradient & Evidences of reminiscence in the rat in maze learning, J. Comp. Psychol. Address: 30 Columbia Ave, Athens, Ohio 45701.

ANDERSON, DR. ARTHUR G, b. Des Moines, Iowa, May 16, 86. ECONOMICS. B.S, Iowa State Col, 12, C.E, 23; M.S, Illinois, 23, Ph.D, 31. Prof. MGT, ILLINOIS, 22-55, EMER. PROF, 55- Vis. prof, Northwestern, 30-31; chmn. faculty, sch. bus, California Western, 55-58, supvr. new bldg. construct, 59-62. Indust. Mgt. Soc. Human fatigue in industry; industrial engineering and factory management; industrial management. Address: 2506 Via Viesta, La Jolla, Calif. 92037.

ANDERSON, DR. ARTHUR JAMES OUTRAM, b. Phoenix, Ariz, Nov. 26, 07; m. 37. ANTHROPOLOGY. A.B, San Diego State Col, 30; A.M, Claremont Col, 31; summer, Columbia, 36; Ph.D.(anthrop), Southern California, 40. Asst. instr. Eng, San Diego State Col, 34-37; instr, Riverside Jr. Col, 38; from assoc. prof. to prof. anthrop, East. N.Mex. Col, 39-45, chmn. div. soc. sci, 42-45; curator hist, Mus. N.Mex. & Sch. Am. Res, 45-57, ed. pub, 48-57; instr. ANTHROP, El Camino Col, 57-61; from asst. prof. to ASSOC. PROF, SAN DIEGO STATE COL, 61-, summer vis. prof, 50, vis. lectr, 53-54, acting chmn. dept, 64. Dir, Roosevelt County Mus. Art, Hist. & Archaeol, N.Mex, 39-45; summer vis. prof, Occidental Col, 52, spec. lectr, 57-58; Guggenheim Mem. Found. fels, 55 & 57; assoc, Sch. Am. Res, 57-; Del Am. Found summer res. grant, 64. Ed, El Palacio, Sch. Am. Res. & Archaeol. Soc. N.Mex, 48-57. Mex. Anthrop. Soc; Int. Nahuatl Asn. Primary sources of information on ancient Mexico, particularly immediately prior to the conquest and the sixteenth to eighteenth centuries. Publ: Co-auth, Florentine codex (books I-V, VII-XII), Sch. Am. Res. & Univ. Utah, 50- Address: Dept. of Anthropology, San Diego State College, San Diego, Calif. 92115.

ANDERSON, DR. BARBARA GALLATIN, b. San Francisco, Calif, May 13, 26; m. 49; c. 3. ANTHROPOLOGY. B.A, San Francisco Col, 47; Ph.D, Paris, 58. Staff anthropologist, geriat. res. proj, dept. ment. hyg, Langley-Porter Neuropsychiat. Inst, 61-64; ASSOC. PROF. ANTHROP, CALIF. STATE COL. HAYWARD, 64- Res. assoc, sch. med, California, 62-; Fulbright fel, India, summer, 67; Nat. Inst. Ment. Health res. grant, soc. geront, 67-68. Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; Soc. Woman Geog. Culture change; Europe; human development; social gerontology; medical anthropology; childhood cross-culturally. Publ: Co-auth; The vanishing village, Univ. Washington, 64; Bus stop for Paris: the transformation of a French village, Doubleday, 66 & Culture and aging: an anthropological study of the older American, C.C. Thomas, 67. Address: 2686 Mountaingate Way, Oakland, Calif. 94611.

ANDERSON, DR. BARRY FRANKLIN, b. Palo Alto, Calif, Sept. 14, 35; m. 61; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Stanford, 57; Nat. Sci. Found. fel, Hopkins, 61-63, Ph.D.(psychol), 63. Res. analyst, Stanford Res. Inst, 57-58; ASST. PROF. PSYCHOL, OREGON, 63- Res. grants, U.S. Pub. Health Serv, 64-66 & Adv. Res. Projs. Agency, 67-69; summer res. assoc, Bell Tel. Labs, 62. Psychol. Asn. Different modes of representing categories and their effects on intellectual performance. Publ: Psychology experiment: an introduction to the scientific method, Wadsworth, 66; co-auth, Two methods of presenting information and their effects on problem solving, Perceptual & Motor Skills, 66; Two kinds of set in problem solving, Psychol. Reports, 66. Address: Dept. of Psychology, University of Oregon, Eugene, Ore. 97403.

ANDERSON, PROF. BERNARD A, Speech Path, Audiol, see 11th ed, Phys. & Biol. Vols.

ANDERSON, DR. BERNARD ERIC, b. Modesto, Calif, Nov. 1, 36; m. 61; c. 2. ECONOMICS. B.S, Ariz. State Col, 60; M.A, Arizona, 61; Ph.D.(econ), Ohio State, 64. Asst. ECON, Arizona, 60-61; asst. instr, Ohio State, 61-64; asst. prof, NORTHERN ARIZONA, 64-66, ASSOC. PROF, 66-, DIR. BUR. BUS. SERV, COL. BUS, 67- Res. prog. grant, Univ. Chicago, 65. U.S.N.R, 55-57, Res, 57-62. Econ. Asn. Regional economic development; manpower research; banking and market analysis. Publ: Co-auth, Economic study of the Mingus Union High School District, Bur. Ed. Res, Northern Arizona Univ, 67; auth, Kingman and Mohave County population, Bur. Bus. Serv, Northern Arizona Univ, 68; An investigation into the effects of banking structures on certain aspects of bank performance, J. Finance, 66. Address: College of Business, Northern Arizona University, Flagstaff, Ariz. 86001.

ANDERSON, DR. BERT D, b. Thatcher, Utah, Feb. 21, 18; m. 46; c. 3. PSYCHOLOGY. B.S, Utah State Agr. Col, 40, M.S, 50; Ed.D.(ed. psychol), Utah, 52. Head counsr, Salt Lake City Youth Center, 51-53; assoc. prof. psychol, South. State Col, 53-54; dir. placement & counsr, MODESTO JR. COL, 54-61, dean guid. & admissions, 61-65, V.PRES. STUDENT SERV, 65- Psychol. Asn; Personnel & Guid. Asn. Student personnel. Publ: Cooperative plan for guiding rural students who migrate to urban centers & Obstacles encountered in organizing community counseling and placement centers for youth, Sch. Rev; Sophomore general culture tests and student knowledge of cultural facts, J. Ed. Psychol. Address: Modesto Junior College, Modesto, Calif. 95350.

ANDERSON, DR. CARL L(UDWIG), b. Osage City, Kans, Aug. 15, 06. PSYCHOLOGY. B.S, Kans. State Teachers Col, 30; M.A, Ohio State, 32; Ph.D. (child psychol), Iowa, 40. Asst, child welfare res. sta, Iowa, 37-40; clin. psychologist, Cherokee State Hosp, 40-42; Ment. Hyg. Clinic, Trenton, N.J, 46; personnel res. analyst, Adj. Gen. Off, U.S. War Dept, 46; chief clin. psychologist, Kennedy Vet. Admin. Hosp, Tenn, 46-47; asst. bur. chief & clin. psychologist, Vet. Admin, Va, 47-48; consult. clin. psychol, Regional Off. V, U.S. Pub. Health Serv, Ill, 48-54, Regional Off. VIII, Colo, 54-58, alcoholism prog. serv, community serv. br, Nat. Inst. Ment. Health, 58-67; RE-

TIRED. U.S.P.H.S, 48-67. AAAS; fel. Psychol. Asn; Pub. Health Asn. Address: 9134 E. Nassau Ave, Denver, Colo. 80237.

ANDERSON, PROF. C(HARLES) ARNOLD, b. Platte, S.Dak, Jan. 13, 07; m; c. 1. SOCIOLOGY. B.A, Minnesota, 27, M.A, 28, Ph.D.(sociol, psychol), 32. From asst. to instr, Harvard, 30-35, vis. prof, 44; asst. prof, Iowa State Col, 36-43; assoc. prof. sociol, Kentucky, 45-49, prof, 49-58; PROF. ED. & SOCIOL. & DIR. COMP. ED. CENTER, CHICAGO, 58- Vis. prof, California, 48-49; Fulbright researcher, Sweden, 55-56. Consult, U.S. Dept. Agr, 42-43. Mem, World Bank Mission to Kenya, 61-62; res. adv. cmt, Agency for Int. Develop, 67- Sociol. Asn; Comp. Ed. Soc; Pop. Asn. Comparative education; social stratification and mobility. Publ: Co-ed, Education & Economic development, Aldine, 65; Education, economy and society. Address: Comparative Education Center, University of Chicago, Chicago, Ill. 60637.

ANDERSON, DR. CHARLES BROOKS, b. Chicago, Ill, June 11, 11; m. 40. SOCIOLOGY. A.B, St. John's Col.(Md), 35; Ph.D.(sociol), N.Y. Univ, 45. Instr. econ. & sociol, Westminster Col.(Utah), 39-43; asst. prof. SOCIOL, Winthrop Col, 44-47; Davidson Col, 47-49; assoc. prof, Marietta Col, 49-52; prof, Washington Col, 52-62; ASSOC. PROF, STATE UNIV. N.Y. COL. PLATTSBURGH, 62- Fel. Sociol. Asn. Urban sociology. Address: Dept. of Sociology, State University of New York College at Plattsburgh, Plattsburgh, N.Y. 12901.

ANDERSON, DR. C(HARLES) HOYT, b. Ephraim, Utah, Mar. 1, 18; m. 38; c. 5. SOCIOLOGY. B.S, Utah, 40, M.S, 42; Thayer scholar, Harvard, 47, Arnold fel, 48, 50, Ph.D.(sociol), 51. Instr, Utah, 48-50; supvr. prog. planning & training, FORD MOTOR CO, 51-61, employee rels. & anal, 61-62, mgr. personnel rels. & placement, 62-63, training, 63-67, DIR. PERSONNEL RECRUITING & RES, 67- U.S.N.R, 43-46, Lt. Indust. Rels. Res. Asn; Sociol. Asn. Education and training; personnel research. Address: 7343 Lindenmere, Birmingham, Mich. 48010.

ANDERSON, PROF. CHARLES WILLIAM, b. Manitowoc, Wis, June 28, 34; m. 55. POLITICAL SCIENCE. A.B, Grinnell Col, 55; Danforth fel, 55-60; Woodrow Wilson fel, Hopkins, 56-57, M.A, 57; Doherty fel, Wisconsin, 58-59, Ph.D, 60. Lectr. POLIT. SCI, Morgan State Col, 56-57; asst. prof, WISCONSIN, 60-63, assoc. prof, 63-67, PROF, 67- Res. grant, Soc. Sci. Res. Coun, 62-63, mem. joint cmt. Latin Am, 63-66. Polit. Sci. Asn; Asn. Latin Am. Studies. Politics and economic development policy in Latin America. Publ: Co-auth, Political economy of Mexico, Univ. Wisconsin, 63; Issues of political development, Prentice-Hall, 67; auth, Politics and economic change in Latin America, Van Nostrand, 67. Address: Dept. of Political Science, University of Wisconsin, Madison, Wis. 53706.

ANDERSON, CHARLES W(ILLIAM) G(EEVES), b. Ilion, N.Y, Mar. 1, 24; m. 43. PSYCHOLOGY. B.S, Southwestern Louisiana, 48; Kent State, 48-49; M.A, La. State, 58. Psychologist, State Colony & Training Sch, La, 50-55; E. La. State Hosp, Jackson, 55-61, prog. dir. & psychologist, 58-60, asst. to clin. dir, 60-61; PSYCHOLOGIST, West. State Hosp, Ft. Supply, Okla, 61-62; WOODWARD STATE HOSP. & SCH, 62- Instr, La. Col, 54; lectr, sch. nursing, McNeese State Col, 60. U.S.A, 43-46. Psychol. Asn; fel. Asn. Ment. Deficiency. Treatment of alcoholism; evaluation, care and treatment of mental deficiency; projective techniques; psychotherapy. Publ: Co-auth, Liothyronine treatment of adult cretin with psychosis, Am. J. Psychiat; Vesprin in the treatment of chronic mental illness, J. La. State Med. Soc; Sibling relationship and mental deficiency diagnosis as reflected in Wechsler test patterns, Am. J. Ment. Deficiency, 11/66. Address: Dept. of Psychology, Woodward State Hospital & School, Woodward, Iowa 50276.

ANDERSON, DR. CLARENCE LEROY, b. Rexburg, Idaho, Jan. 16, 31; m. 58; c. 1. SOCIOLOGY. B.S, Brigham Young, 57, M.S, 59; Ph.D.(sociol), Ohio State, 62. Asst. prof. SOCIOL, Willamette, 62-63; Montana, 63-65; Arizona, 65-66; MONTANA, 66-67, ASSOC. PROF, 67-; RES. SPECIALIST, WEST. INTERSTATE CMN. HIGHER ED, 67- Consult, labor mobility proj, Mont. Employment Cmn, 66- Fel. Sociol. Asn. Attitude scale construction concerning economic dependency; survey research; medical sociological research. Publ: Development of an objective measure of orientation toward public dependence, 9/65 & Preliminary study of generational economic dependency orientations, 6/67, Soc. Forces. Address: Dept. of Sociology, University of Montana, Missoula, Mont. 59801.

ANDERSON, DR. CLAY J, b. Blue Springs, Mo, Jan. 24, 02; m. 24; c. 1. ECONOMICS. B.S, Missouri, 26, M.A, 27; fels, Michigan, 36-37 & 38-39, Ph.D. (econ), 41. Grad. asst, Missouri, 27; prof. econ, Cent. Mo. State Col, 29-38, chmn. div. soc. studies, 38-45, acting dean, 37 & 44; financial economist, Fed. Reserve Bank of St. Louis, 45-47, Phila, 47-58, econ. adv. & officer, 58-67; RES. & WRITING, 67- Economist, U.S. Dept. Commerce, 42-44; lectr. finance, exec. mgt. progs, Pa. State, 54-68; lectr, grad. sch. banking, Wisconsin, 58-68. Consult, Union Bank of Burma, Rangoon, 53; Govt. Afghanistan, 67. Finance Asn; Econ. Asn. Monetary and fiscal policy; international finance. Publ: Co-auth, chap, In: Business lending of American commercial banks, Ronald, 59; auth, Monetary policy: decision making, goals and objectives, 61 & Federal reserve policy making 1914 to 1964, Fed. Reserve Bank of Phila, 65. Address: 1346 Glen Hardie Rd, Wayne, Pa. 19087.

ANDERSON, DR. CLINT D, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

ANDERSON, CURTIS E(DWIN), b. Union Co, N.Mex, Feb. 1, 10; m. 40; c. 5. ECONOMICS. A.B, Oberlin Col, 33; Chicago, 41; American Univ, 45; Southeastern, 48. Trainee, Gen. Elec. Co, N.Y, 33-37; asst. to pres, Olivet Col, 37-38; mem. faculty, Oberlin Col, 38-41; indust. specialist, War Prod. Bd, 41-45; economist, U.S. Dept. Commerce, 45-48; exec. secy, fiscal & monetary policy cmt, Cent. Secretariat, Econ. Coop. Admin, 48, spec. asst. tech. info, 48-52; SPEC. ASST. TO ASST. ADMINSTR, SMALL BUS. ADMIN, 52- Exec. secy, Am. textile productivity mission, U.K, 51. Econ. Asn; Mkt. Asn. Interindustry input-output models of functioning of economy to analyze large-scale logistics problems of military services of United States and allies in nuclear attack on the United States. Address: 6900 Arbor Lane, McLean, Va. 22101.

ANDERSON, DR. DARRELL EDWARD, b. Coleridge, Nebr, May 2, 32; m. 51; c. 3. CLINICAL PSYCHOLOGY. A.B, York Col, 53; U.S. Pub. Health Serv. grant, Nebraska, 55-57, Ph.D.(clin. psychol), 58. Gen. counsr, counseling serv, Nebraska, 57-59; asst. prof. psychol, Wittenberg, 59-61; clin. psychologist, Weld County Health Dept, 61-62; asst. prof. PSYCHOL, COLO. STATE COL, 62-66, ASSOC. PROF, 66- Psychol. Asn; Personnel & Guid. Asn. Verbal conditioning; structured personality testing; personality factors in academic success; psychotherapy; learning disabilities in children; computer applications in personality assessment. Address: Dept. of Psychology, Colorado State College, Greeley, Colo. 80631.

ANDERSON, DR. D(AVID) CHRIS(TIAN), b. Portland, Ore, May 13, 34; m. 53; c. 4. EXPERIMENTAL PSYCHOLOGY. B.S, Portland, 56, M.A, 61, Ph.D. (psychol), 64. Counselor, Woodburn Sch. Boys, 55-56; pharmaceut. rep, Merck, Sharp & Dohme Div, Merck & Co, 57-59; psychiat. soc. worker, Multnomah Co. Juvenile Court, Ore, 59-60; res. asst. PSYCHOL, Portland, 59-61; med. sch, Oregon, 62-63; asst. prof, Washburn, 63-65; Brigham Young, 65-67; ASSOC. PROF, NOTRE DAME, 67- Dir. comp. psychol. lab, Menninger Found, 63-65; Nat. Inst. Ment. Health res. grants, 64-67; summer fel, sch. med, Stanford, 67. Psychol. Asn; Psychonomic Soc. Experimental and physiological foundations of motivation, conditioning and learning, especially aversive control of behavior; higher order classical conditioning; neuropharmacology. Publ: Co-auth, The effects of scopolamine upon activity and startle reactions: implications for activation theory, Psychopharmacologia, 67; auth, Conditioned suppression of a running response as related to competing responses, drive, and basal skin resistance, 67 & Variations in unsignaled inescapable preshock as determinants of responses to punishment, 68, J. Comp. & Physiol. Psychol. Address: Dept. of Psychology, University of Notre Dame, Notre Dame, Ind. 46556.

ANDERSON, DR. DESMOND L(AUNFAL), b. Logan, Utah, May 23, 23; m. 48; c. 5. PUBLIC ADMINISTRATION. B.S, Utah State, 48, M.S, 50, D.P.A, Southern California, 56. Asst. to dean, sch. pub. admin, Southern California, 50-51, summer asst, 51, asst. dir, civic center campus, 54-57, dir, 57-60, assoc. prof. pub. admin, 60-66, asst. dean sch. pub. admin, 60-62, assoc. dean, 62-66; PUB. ADMIN. ADV. ED, ACAD. CHMN. & CIVILIAN ADV. TO ESTAB. NAT. DEFENSE COL, U.S. DEPT. STATE, AGENCY INT. DEVELOP, SAIGON, VIETNAM, 68- Mgt. consult, govt. jurisdictions, 52-; ed. consult, Pittsburgh, 58; Oregon, 65. Pres, Southern California Faculty Acad. Senate, 64-65. U.S.A.A.F, 43-46, 2nd Lt. Soc. Pub. Admin; Polit. Sci. Asn. Leadership and behavior; educational administration; political dynamics; urban management. Publ: Municipal public relations, Int. City Mgrs. Asn, 66; Achieving community consensus, Pub. Mgt, 3/66; co-auth, Crisis in education of American public executives, Int. Rev. Admin. Sci, 5/66. Address: USAID/Saigon, Vietnam, APO San Francisco 96243.

ANDERSON, DR. DEWEY, b. Grand Forks, N.Dak, Jan. 14, 97. ECONOMICS, GOVERNMENT. A.B, Stanford, 27, A.M, 28, Ph.D, 32. Mem. faculty & dir, Stanford-Alaska ed. study, Stanford, 30-34, co-dir. inst. occup. res, 36-39; EXEC. DIR, PUB. AFFAIRS INST, 39- Res. dir, Haynes Found, 36-38; state budgeteer, Calif, 38-39; adminstr, State Relief Admin, 39; from econ. counsr. to exec. secy, Temporary Nat. Econ. Cmn, D.C, 39-41; chief Am. Hemisphere Div, Bd. Econ. Warfare, 42; supply & transport div, Off. For. Relief & Rehab. Oper, 43; chief field opers, UNRRA, 44. Chmn. unemploy. cmt, legis. interim cmt. real property taxation & v.chmn. legis. cmt. study health ins, State Legis, Calif, 35-37; exec. secy, small bus. cmt, U.S. Senate, 45. Educational sociology; educational and sociological survey of Alaska natives. Publ: Co-auth, Recent occupational trends in American labor; auth, Health service is a basic right of all the people; Natural resources: their protection and development. Address: Public Affairs Institute, 2912 P St. S.E, Washington, D.C. 20020.

ANDERSON, PROF. DOLE A, Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols.

ANDERSON, PROF. DONALD E(DWIN), b. Fullerton, N.Dak, Sept. 22, 31; m. 55; c. 3. B.S, N.Dak. State, 53, M.S, 57; Ph.D, Minnesota, 68. ASSOC. PROF. AGR. ECON, N.DAK. STATE, 57- Address: 230 27th Ave. N, Fargo, N.Dak. 58102.

ANDERSON, DR. DOROTHY VIVIEN, Psychol, see 10th ed, Soc. & Behav. Vols.

ANDERSON, PROF. EDGAR, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ANDERSON, PROF. EDWARD E(RIC), b. Stanberry, Mo, Apr. 6, 05; m. 35. PSYCHOLOGY. A.B, Illinois, 29, A.M, 30, fel, 30-31, Ph.D.(psychol), 34. Nat. Res. Coun. fel. biol. sci, Stanford, 34-35; instr. & tutor PSYCHOL, Harvard, 35-39; PROF. & HEAD DEPT, WILSON COL, 39- Fel. Psychol. Asn. Motivation; aptitude and achievement measures; non-directive techniques. Publ: Externalization of drive, theoretical considerations, Psychol. Rev; Interrelationship of drives in the male albino rat, Comp. Psychol. Monogr; New form of examination in the subject matter of psychology, J. Ed. Psychol. Address: Dept. of Psychology, Wilson College, Chambersburg, Pa. 17201.

ANDERSON, PROF. E(DWARD) H(UTCHINS), Indust. Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

ANDERSON, EDYTHE MARIE SCALES, b. Endicott, N.Y, Oct. 11, 29; m. 54; c. 1. PSYCHOLOGY. B.A, Syracuse, 50; M.A, Wellesley, 52. Tech. staff assoc, human factors res, Bell Tel. Labs, 52-54; ASST. APPL. EXP. PSYCHOL, INST. PSYCHOL. RES, TUFTS, 55- Psychol. Asn. Psychophysics of vision; human engineering. Publ: Status of research on effect of pre-exposure on dark adaptation, Nat. Acad. Sci-Nat. Res. Coun; co-auth, Studies on dark adaptation. IV. pre-exposure tolerance of the dark-adapted peripheral retina and V. effect of various sizes of centrally fixated pre-exposure fields on foveal and peripheral dark adaptation, J. Optical Soc. Address: 16 Sherwood Rd, Melrose, Mass. 02176.

ANDERSON, PROF. ERNEST W, b. Rochester, Ind, May 10, 09; m. 35; c. 2. PSYCHOLOGY. B.S.A, Purdue, 37, M.S, 49, Ph.D.(ed. psychol), 53. Instr, poultry sci. dept, Purdue, 48-53, ed. dir. state egg bd, 53-54; asst. prof. ed, Ball State Teachers Col, 54-57; PROF. EXTEN. ED, ILLINOIS, 57- Consult, Gen. Elec. Co, 55-; Kellogg Found, 55-61. U.S.A, 40-46, Lt. Col. AAAS; Psychol. Asn; Adult Ed.Asn. Educational program planning in cooperation extension and industry; study and analysis of communication process in educational and industrial management. Publ: An approach to effective teaching, spring 63 & Counseling professional personnel, spring 67, J. Coop. Ext. Address: 1603 S. Maple St, Urbana, Ill. 61801.

ANDERSON, DR. ESTHER S(ANFREIDA), b. Lincoln, Nebr, May 19, 91. GEOGRAPHY. B.S, Nebraska, 15, A.M, 17; fel, Wisconsin, 21-22; Clark, 29-30, Ph.D.(geog), 32. Instr. GEOG, NEBRASKA, 21-29, 30-34, asst. prof, 35-42, 46-58, EMER. PROF, 58- Assoc. geogr, mil. intel. serv, U.S. War Dept, 42-43; econ. statistician, for. div, prog. br. bur. planning & statist, War Prod. Bd, 43-45; economist & chief, cordage unit, prog. br. bur. textiles, clothing & leather, Civilian Prod. Admin, 45-46; geogr, geog. div, U.S. Bur. Census, D.C, 58-61; res. consult, div. earth sci, Nat. Acad. Sci, 63- AAAS; Asn. Am. Geog; Soc. Women Geog; Nat. Coun. Geog. Ed; Int. Geog. Cong. Regional, urban and economic geography; sugar beet industry. Publ: Co-auth, Regions and nations of the world. Address: 25 E. St, N.W, Stratford Hotel, Washington, D.C. 20001.

ANDERSON, DR. EUGENE N, JR, b. Washington, D.C, Feb. 2, 41; m. 62; c. 2. ANTHROPOLOGY. B.A, Harvard, 62, Ph.D.(anthrop), California, Berkeley, 67. Acting asst. prof. ANTHROP, CALIFORNIA, RIVERSIDE, 66-67, ASST. PROF, 67- Fel. Anthrop. Asn; Folklore Soc; Am. Ornith. Union; Brit. Ornith. Union. Fishing societies; Asia; cognitive studies. Publ: A bibliography of the Chumash and their predecessors, Archeol. Surv. Reports, Univ. California, 64; The folk songs of the Hong Kong boat people, J. Am. Folklore, 67; Prejudice and ethnic stereotypes in rural Hong Kong, Kroeber Anthrop. Soc. Papers, 68. Address: Dept. of Anthropology, University of California, Riverside, Calif. 92502.

ANDERSON, DR. FRANK G(IBBS), Anthrop, see 10th ed, Soc. & Behav. Vols.

ANDERSON, PROF. FREDERICK W(OODLEY), b. Moose Jaw, Sask, Apr. 21, 20; m. 43; c. 1. ECONOMICS, POLITICAL SCIENCE. B.A, Saskatchewan, 48, M.A, 49. Imp. Order Daughters of Empire scholar, London Sch. Econ, 49-51; spec. lectr. econ, SASKATCHEWAN, REGINA CAMPUS, 51-54, asst. prof. econ. & polit. sci, 54-62, assoc. prof. ECON, 62-66, PROF, 66- Fel, inst. econ. res, Queen's (Ont), 57; secy. & res. dir, Royal Cmn. Transportation, 59-61. Consult, Cmt. Manitoba Econ. Future, 62; Can. Nat. Rwy. Extended Crew Runs, 65; transportation consult, Econ. Study of the Yukon, 67-68. R.C.N, 41-46, Lt. Comdr. Am. Econ. Asn; Asn. Evolutionary Econ; Transportation Res. Forum: Can. Econ. Asn. Transportation economics, particularly pertaining to the national policy in Canada. Address: Economics Committee, Division of Social Science, University of Saskatchewan, Regina, Sask, Can.

ANDERSON, DEAN GARY ROBERT, Ed. Psychol, Counseling, see 10th ed, Soc. & Behav. Vols, deceased 65.

ANDERSON, PROF. G(EORGE) LESTER, b. Chadron, Nebr, Feb. 4, 11; m. 34; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Nebr. State Teachers Col, 32; M.A, Colo. State Col. Ed, 37; Ph.D.(ed. psychol), Minnesota, 41; hon. D.H.L, Bradley, 62; hon. Dr, Paraguay, 65. Instr, high sch, Nebr, 32-35, prin, 35-37, supt. schs, 37-38; asst. & instr. ed. psychol, Minnesota, 38-41, asst. prof. & dir. univ. high sch. student teaching, 41-45, assoc. prof, 45-46, ed, 46-48, prof, 48-49; prof. & dean teacher ed, City Univ. New York, 49-51; prof. ed. & dean admin, STATE UNIV. N.Y. BUFFALO, 51-55, v.chancellor for ed. affairs, 55-62, v.pres, 62-65, DISTINGUISHED SERV. PROF. FOR HIGHER ED, 65- Consult, U.S. Off. Mil. Govt, Germany, 47. Mem. bd. dirs, Coun. Social Work Ed, 59-65; adv. cmt. on training grants for voc. rehab. counseling, off. voc. rehab, Dept. Health, Ed. & Welfare, 61-63, exp. & spec. training rev. cmt, Nat. Inst. Ment. Health, 65-68; exec. cmt, Am. Asn. High Ed, 66-69. Psychol. Asn; Ed. Res. Asn. Higher education, organization and administration; education for the professions. Address: Dept. of Higher Education, State University of New York at Buffalo, Buffalo, N.Y. 14214.

ANDERSON, DR. GEORGE T(URNER), b. Atlanta, Ga, June 6, 36; m. 59; c. 3. PSYCHOLOGY. B.A, La Grange Col, 59; M.S, Georgia, 62, Ph.D.(semantic generalization), 66. Intern clin. psychol, Milledgeville State Hosp, Ga, 63-64; res. asst. civil defense, Georgia, 64-66, res. assoc, 66; asst. prof. PSYCHOL, N.Ga. Col, 66-67; ASSOC. PROF. & HEAD DEPT, LA GRANGE COL, 67- Consult, Troop, Heard & Meriwether Counties Ment. Health Progs, Ga, 67- AAAS; Psychol. Asn. Personality characteristics of leaders in fallout shelters; community mental health. Publ: Co-auth, Final report: shelter occupancy studies at the University of Georgia, 1965, Civil Defense Res, Univ. Georgia, 65. Address: 205 Waverly Way, La Grange, Ga. 30240.

ANDERSON, DR. GERALD HUGH, b. Mineola, N.Y, Oct. 2, 35; m. 63; c. 1. ECONOMICS. B.S.E.E, Bucknell, 57; M.B.A, Indiana, 62, Nat. Sci. Found. fel, 62-65, M.A, 64, Ph.D.(econ), 65. Elec. engr, Gen. Elec. Co, 57-58; ASST. PROF. ECON, OKLAHOMA, 65- U.S.A, 58-60, 1st Lt. Econ. Asn. Relationships between inflation and economic growth; stabilization of international trade in primary commodities; international economics; economic development of underdeveloped countries. Address: Dept. of Economics, University of Oklahoma, Norman, Okla. 73069.

ANDERSON, DR. GLADYS LOWE, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

ANDERSON, DR. GORDON V(LADIMIR), b. Wausa, Nebr, Apr. 6, 10; m. 35; c. 2. PSYCHOLOGY. A.B, Augustana Col, 32; M.A, Nebraska, 40; Ph.D. (psychol), Minnesota, 45. Employ. interviewer, U.S. Employ. Serv, 36-41; dir. student couns. bur, Minnesota, 43-45; asst. prof. psychol, Northwestern, 45-47; from assoc. prof. to PROF. ED. PSYCHOL, TEXAS, AUSTIN, 47-, CHMN. DEPT, 65-, from asst. dir. to dir, testing & counseling center, 47-67. Fel. Psychol. Asn; Psychomet. Soc; Col. Personnel Asn. Nature and measurement of special aptitudes; social attitudes; test methods. Address: Dept. of Educational Psychology, Sutton Hall 304, University of Texas, Austin, Tex. 78712.

ANDERSON, PROF. GRAYDON K(EITH), b. Platte, S.Dak, Nov. 10, 15; m. 45; c. 3. ECONOMICS. B.A, Willamette, 38; Ph.D.(econ), Wisconsin, 53. Instr. ECON, Wisconsin, 48-49; asst. prof, SAN DIEGO STATE COL, 49-53, from assoc. prof. to PROF, 53- U.S.N.R, 42-46. Econ. Asn. Economic methodology and development. Publ: The port of Ensenada: a report on economic development; Some economic inferences drawn from the record of the European recovery program, J. Finance. Address: Dept. of Economics, San Diego State College, San Diego, Calif. 92115.

ANDERSON, PROF. HAROLD H(OMER), b. Dakota City, Nebr, Oct. 23, 97; m. 27; c. 2. PSYCHOLOGY. B.S, Harvard, 22; dipl, Inst. J.J. Rousseau, Switz, 28; Ph.D.(psychol), Geneva, 29. Res. asst. prof. PSYCHOL, child welfare res. sta, Iowa, 29-36; asst. prof, Illinois, 36-41, assoc. prof, 41-46; prof. & head dept, MICH. STATE, 46-55, RES. PROF, 55- Fulbright res. prof, Frankfurt, Germany, 53-54; int. lectr, Univs. Stockholm, Oslo & Helsinki, 54. Consult, Vet. Admin, 47- Res. dir, Cross-Nat. Study Conflict, Finland, Germany, Mex, Norway, Sweden, U.K. & U.S, 52-54. Mem. World Fedn. Ment. Health. Dipl, Am. Bd. Exam. Prfnl. Psychol. AAAS; Psychol. Asn; Soc. Res. Child Develop; Geront. Soc; Orthopsychiat. Asn. (v.pres, 52, spec. features ed, Am. J. Orthopsychiat, 61-); Inter-Am. Soc. Psychol.(treas, 57-61, pres-elect, 61-63). Child and clinical psychology; creativity; personality; cross-national research. Publ: Studies of teachers' classroom personalities; co-ed, Introduction to projective techniques; ed, Creativity and its cultivation. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

ANDERSON, PROF. HAROLD M(ILTON), b. Cottonwood, Minn, Oct. 3, 15; m. 45; c. 5. STATISTICS. B.A, St. Olaf Col, 39; M.A, Minnesota, 47; Ph.D. (teacher ed), Wisconsin, 52. Mem. faculty, Winona State Teachers Col, 47-50; assoc. prof. ED, COLORADO, 52-64, PROF, 64- U.S.A, 41-45. AAAS; Nat. Asn. Res. Sci. Teaching. Teacher education. Publ: Study of certain criteria of teaching effectiveness, J. Exp. Ed. Address: School of Education, University of Colorado, Boulder, Colo. 80302.

ANDERSON, PROF. HARRY E(DWIN), JR, b. Indianapolis, Ind, Oct. 29, 00; m. 64; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, Mich. State, 52; M.A, Memphis State, 55; Ph.D, Texas, 58. Orgn. & methods exam, U.S. Air Force, 54-55; asst. psychomet, testing & guid. bur, Texas, 55-56; res. assoc, Psychol. Res. Serv, 56-57, HumRRO, 57-58, res. scientist, 58-59, consult, 59; sr. opers. res. analyst, Syst. Develop. Corp, 59-60; res. scientist, Am. Inst. Res, 60-61, sr. res. scientist, 61-62; res. specialist, Calif. Test Bur, 62-63; asst. res. prof. voc. rehab, Florida, 63-64; from assoc. prof. to PROF. ED, GEORGIA, 64- Consult, Voc. Rehab, 65- U.S.A, 48-49, 50-51, Res, 53-61, 2nd Lt. Psychol. Asn; Psychomet. Soc; Soc. Multivariate & Exp. Psychol; Rehab. Asn. Educational measurement; achievement testing; test construction and analysis; statistical theory and methodology applicable to the fields of education and psychology; specialized educational and training programs. Publ: Co-auth, Some multiple correlation and predictor selection methods; auth, A perimetric correlation, J. Exp. Ed, 65; Regression, discriminant analysis and standard notation for basic statistics, In: Handbook of multivariate experimental psychology. Address: 350 S. Pope, Apt. 10, Athens, Ga. 30601.

ANDERSON, PROF. HAYWARD SULLIVAN, b. Thomasville, Ga, Nov. 30, 20; m. 66. BUSINESS ADMINISTRATION. B.S, Savannah State Col, 46; B.S, Northwestern, 49; M.B.A, N.Y. Univ, 52; fel, Harvard, 57-58, D.B.A.(bus. admin), 61. Asst. cashier, Supreme Liberty Life Ins. Co, Ill, 49-50; salesman & mgr. mkt, H.S. Anderson Sales Agency, Ga, 50; accountant, C. Medford Pub. Acct, New York, 51-53; asst. prof. BUS. ADMIN, W.Va. State Col, 53-56; PROF. & CHMN. DEPT, DIV. BUS. ADMIN, SAVANNAH STATE COL, 59- Qm.C, U.S.A, 43-46, 1st Lt. Am. Mkt. Asn; Am. Acct. Asn. High interest in many facets of marketing management and problems of top management. Address: P.O. Box 433, Savannah State College, Savannah, Ga. 31404.

ANDERSON, PROF. IRA D(ENNIS), b. Mentone, Ind, Sept. 8, 07; m. 31; c. 2. MARKETING. B.S, Indiana, 29; M.B.A, Northwestern, 30, Ph.D.(mkt), 44. Asst. prof. MKT. & RETAILING, NORTHWESTERN, 37-44, assoc. prof, 44-49, PROF, 49-, assoc. dean & dir. undergrad. sch. bus, 53-63. Summer consult, Spec. Cmt. Commerce Ed, India, 59. Mkt. Asn.(secy, 51-54, v.pres, 54, pres, 55). Retail trade operating statistics. Publ: Co-auth, Principles of retailing. Address: School of Business, Northwestern University, Evanston, Ill. 60201.

ANDERSON, PROF. JAMES E(LLIOTT), b. Galva, Ill, July 6, 33; m. 53; c. 3. POLITICAL SCIENCE. B.S, Southwest Tex. State Col, 55; fel, Texas, 57-58; Ph.D.(polit. sci), 60. Instr. POLIT. SCI, Wake Forest Col, 59-60, asst. prof, 60-64, ASSOC. PROF, 64-66; HOUSTON, 66- Polit. Sci. Asn. Formulation and administration of American public economic policy; legislature process; public administration. Publ: The emergence of the modern regulatory state; Politics and the economy, Little, 66; Poverty, unemployment and economic development, J. Polit, 67. Address: Dept. of Political Science, University of Houston, Houston, Tex. 77004.

ANDERSON, PROF. JAMES G(EORGE), b. Baltimore, Md, July 24, 36; m. 63; c. 3. SOCIOLOGY, EDUCATION. B.E.S, Hopkins, 57, M.S.E, 59, Ford Found. fel, 59-60, M.A.T, 60, Ph.D.(sociol, ed. admin), 64. Instr. math, Mt. St. Agnes Col, 62-64; admin. asst. to dean, McCoy Col, Hopkins, 64-65, dir. div. eng, 65-66; RES. PROF. ED. ADMIN, NEW MEXICO STATE, 66- Prin. investr, coop. res. proj, U.S. Off. Ed, 63-64. Eng.C, U.S.A, 60-61, Res, 61-, Capt. Sociol. Asn; Acad. Polit. & Soc. Sci; Ed. Res. Asn. Operations research; research design and analysis in the behavioral sciences; multivariate statistical analysis; sampling; computer applications in the behavioral sciences; sociology of education; administrative theory; cultural change. Publ: Bureaucracy in education, Johns Hopkins, 68; The authority structure of the school—system of social exchange, Ed. Admin.

Quart, spring 67; co-auth, The influence of differential community perceptions on the provision of equal educational opportunities, Sociol. Ed, summer 67. Address: Research Center, New Mexico State University, Las Cruces, N.Mex. 88001.

ANDERSON, DR. JAMES NELSON, b. Burbank, Calif, Mar. 20, 30; m. 57; c. 3. ANTHROPOLOGY. A.B, Occidental Col, 52; M.A, California, 59, Ph.D.(anthrop), 64. ASST. PROF. ANTHROP, Southern Illinois, 63-64; CALIFORNIA, BERKELEY, 64- U.S.M.C, 52-54, Res, 55-63, Maj. Anthrop. Asn; Asn. Asian Studies. Social and economic anthropology; ecology; Southeast Asia, especially the Philippines; relationship of land tenure, labor organization, exchange and social structure and social and economic change. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

ANDERSON, PROF. JAMES R(ICHARD), b. Whitaker, Ind, Nov. 20, 19. ECONOMIC GEOGRAPHY. B.S, Indiana, 41, A.B. & A.M, 47; Ph.D, Maryland, 50. Instr. geog, Maryland, 47-50, asst. prof, 50-52; geogr, agr. res. serv, U.S. Dept. Agr, 52-60; PROF. GEOG. & HEAD DEPT, FLORIDA, 60- Consult, Atlas of World Agr, Padova, Italy, 61-; Nat. Atlas of U.S, U.S. Geol. Surv, 63- U.S.N, 42-45. Asn. Am. Geog; Nat. Coun. Geog. Ed; Geog. Soc. Land utilization in the United States. Publ: Land utilization, a graphic summary; co-auth, Major uses of land in the United States, U.S. Dept. Agr. Info. Bull; monogr. on Agriculture of United States, World Atlas of Agr. Address: 3211 N.W. 21st Ave, Gainesville, Fla. 32601.

ANDERSON, DR. JANE E(THELYN), b. Youngstown, Ohio, Aug. 22, 36; m. 66. CHILD & CLINICAL PSYCHOLOGY. A.B, De Pauw, 58; Nat. Inst. Ment. Health fel, Purdue, 58-59, M.S, 61, Ph.D.(clin. psychol), 63. Nat. Inst. Ment. Health fel, Judge Baker Guid. Center, Boston, Mass, 63-65, staff psychologist, 65-66; ASST. PROF. PSYCHOL. & PEDIAT, IOWA, 66- Psychol. Asn; Soc. Res. Child Develop. Dependency behavior in children; child psychopathology and psychotherapy. Address: Child Development Clinic, University of Iowa, Iowa City, Iowa 52240.

ANDERSON, DR. JEREMY, b. Seattle, Wash, Jan. 3, 35; m. 58; c. 2. GEOGRAPHY. B.A, Yale, 56; M.A, Washington (Seattle), 59, Ph.D.(geog), 64. Instr. GEOG, Maryland, 60-61, ASST. PROF, 61-66; CLARK, 66- Asn. Am. Geog; Regional Sci. Asn; Asn. Adv. Slavic Studies. Agricultural land use and specialization of agriculture in Russia and the Union of Soviet Socialist Republics; graphic analysis and communication. Publ: Fodder and livestock production in the Ukraine: a case study of Soviet agricultural policy, E. Lakes Geogr, 10/67; A historical-geographical perspective on Khrushchev's corn program, In: Soviet and East European agriculture, Univ. California, 67. Address: Dept. of Geography, Clark University, Worcester, Mass. 01610.

ANDERSON, DR. JOHN E(DWARD), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

ANDERSON, PROF. JOHN EDWIN, JR, b. U.S, Jan. 26, 32; m. 56; c. 2. PSYCHOLOGY. B.A, Akron, 53; Ph.D, Ohio State, 57. Asst. psychol, Ohio State, 55-57; instr, Rochester Inst. Tech, 57-58; asst. prof. PSYCHOL, Fla. State & consult, human develop. inst, 58-63; PROF. & DEAN COL, COLUMBUS COL, 63- Consult, State of Ga, 61-; State Bd. Pub. Instr, Ga, 61- Psychol. Asn. Gerontology; curriculum building; graduate education; history and systems of psychology. Publ: Research in the junior college: anathema or anodyne, Jr. Col. J, 11/64; The implications of learning theory for gerontology, In: Psychobiology of aging, Springer, 65; Attitude of science camp students toward various.sciences, Sci. Ed, 4/67. Address: Office of the Dean, Columbus College, Columbus, Ga. 31907.

ANDERSON, PROF. JOHN P(EYTON), b. Conway, Ark, Apr. 14, 05; m. 31; c. 3. PSYCHOLOGY. A.B, Hendrix Col, 25; M.A, Columbia, 32, Ph.D, 40. From asst. to prof. PSYCHOL, Hendrix Col, 38-55; PROF, ARKANSAS, 55-, chmn. dept, 55-64. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 42-46. Personality dynamics and adjustment. Address: Dept. of Psychology, University of Arkansas, Fayetteville, Ark. 72701.

ANDERSON, J(OHN) V(ERNON), Econ, see 10th ed, Soc. & Behav. Vols.

ANDERSON, DR. JOHN WHITING, b. New York, N.Y, July 27, 34; m. 61; c. 2. ECONOMICS. A.B, Amherst Col, 56; M.A, Pennsylvania, 61, fel, summer 66, Ph.D.(econ), 67. Instr. ECON, Drexel Inst, 59-61; asst. prof, BUCKNELL, 61-68, ASSOC. PROF, 68- Consult, Pa. Tech. Assistance Prog, 67-68. U.S.N.R, 56-59, Lt.(jg). Factors which affect human resistance to change and organizational behavior in both management and the work force. Address: Dept. of Economics, Bucknell University, Lewisburg, Pa. 17837.

ANDERSON, PROF. KARL LEOPOLD, b. Charlottetown, P.E.I, June 26, 05; U.S. citizen; m. 31; c. 2. ECONOMICS. B.Sc, Mt. Allison, 28; M.A, Harvard, 30, Ph.D, 32. Instr. & tutor econ, Harvard, 30-36; from asst. to assoc. prof, Bryn Mawr Col, 36-46; adv. int. res, U.S. Dept. State, 46-49; dep. dir, bur. for. commerce, U.S. Dept. Commerce, 50-56; PROF. ECON, Nat. War Col, 56-57; MIDDLEBURY COL, 57-, CHMN. SOC. SCI. DIV, 63- Price exec, Off. Price Admin, 42-46. Am. Econ. Asn; Royal Econ. Soc. International economics; economic policy. Address: 116 S. Main St, Middlebury, Vt. 05753.

ANDERSON, DEAN KENNETH E(UGENE), b. Minneapolis, Minn, Mar. 2, 10; m. 34; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Minnesota, 32, M.A, 34, Ph.D.(ed), 49. Asst. prof. ED, KANSAS, 48-50, assoc. prof, 50-52, PROF. & DEAN, SCH. ED, 52-, dir. bur. ed. res. & serv, 50-52. Consult, Indian res. & testing prog, ed. br, Bur. Indian Affairs, U.S. Dept. Interior, 50-57; Vet. Admin, 55-68. Mem. coun, Nat. Coun. for Accreditation of Teacher Ed, 61-64. Achievement award, Univ. Minnesota, 65. Fel. AAAS.(v.pres, 61-62); Psychol. Asn; Statist. Asn; Ed. Res. Asn.(pres, 59); Asn. Res. Sci. Teaching (pres, 54-55). Science education; statistics. Publ: Co-auth, Anderson-Fisk chemistry test, Harcourt, 66; Educational achievement of Indian children; auth, Computation of t by analysis of variance, Am. Statistician. Address: 2014 Clifton Court, Lawrence, Kans. 66044.

ANDERSON, DR. L(EO) DEWEY, b. Laramie, Wyo, July 8, 98; m. 42; c. 2. PSYCHOLOGY. A.B, Wyoming, 20; A.M, Carnegie Inst. Tech, 21; Ph.D. (psychol), Columbia, 29. Asst. prof. psychol. & chief invest. mech. ability proj, Minnesota, 23-27; psychologist, Bur. Ed. Exp, New York, 27-29; assoc. prof. psychol, Western Reserve & res. dir, Brush Found, 29-38; air traffic exam, Civil Aeronaut. Admin, Wash, 41-44, coordinator performance standards, 44-45; chief training sect, War Assets Admin, 45-46, employ. rels. sect, 46; assoc. tech. coordinator, Off. Tech. Serv, Germany, 46-47; training consult, off. int. trade, U.S. Dept. Commerce, 47; psychol. consult. to asst. to adminstr. for res, Civil Aeronaut. Admin, 47-51; Civil Defense Admin, 51-52; private practice psychol, 52- Psychol. Asn. Mechanical ability; industrial psychology; gerontology. Address: Route 2, Box 32, Alachua, Fla. 32615.

ANDERSON, DR. LYNN REESE, b. Mapleton, Utah, Oct. 23, 38. PSYCHOLOGY. B.S, Brigham Young, 60; A.M, Illinois, 62, Ph.D.(psychol), 64. ASST. PROF. SOC. PSYCHOL, WAYNE STATE, 64- Psychol. Asn; Sociol. Asn. Small group behavior; attitude theory and change. Publ: Co-auth, Prior reassurance of group consensus as a factor in producing resistance to persuasion, Sociometry, 3/65; Prediction of attitude from the number, strength, and evaluative aspect of beliefs about the attitude object: a comparison of summation and congruity theory, J. Personality & Soc. Psychol, 65; Belief defense produced by derogation of message source, J.Exp. Soc. Psychol, 10/67. Address: Dept. of Psychology, Wayne State University, Detroit, Mich. 48202.

ANDERSON, DR. MARTIN, b. Lowell, Mass, Aug. 5, 36; m. 65. BUSINESS ECONOMICS, POLITICAL SCIENCE. A.B, Dartmouth Col, 57, M.S, 58; Ph.D. (indust. admin), Mass. Inst. Tech, 62. Res. fel, joint center urban studies, Mass. Inst. Tech. & Harvard, 61-62; ASSOC. PROF. BUS, GRAD. SCH. BUS, COLUMBIA, 62- U.S.A, 58-59, 2nd Lt. Econ. Asn; Finance Asn. Economic theory; business finance; urban economics. Publ: Federal bulldozer: a critical analysis of federal urban renewal, 1949-62, M.I.T. Press, 64. Address: Dept. of Business, Graduate School of Business, Columbia University, New York, N.Y. 10027.

ANDERSON, PROF. MONTGOMERY D(RUMMOND), b. Galveston, Tex, Sept. 14, 00. ECONOMICS. B.C.S, Washington (St. Louis), 21, M.C.S, 22; Ph.D, Brookings Inst, 25. Asst. prof. ECON, Washington (St. Louis), 25-27; PROF, FLORIDA, 27- Mathematical and statistical economics. Address: Dept. of Economics, University of Florida, Gainesville, Fla. 32601.

ANDERSON, DR. N(ANCY) S(AGRID), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

ANDERSON, PROF. NORMAN HENRY, b. Minneapolis, Minn, July 23, 25. PSYCHOLOGY. B.S, Chicago, 46, M.S, 49; M.S, Wisconsin, 55, Ph.D.(psychol), 56. Mathematician, Eng. Res. Assocs, Inc, 51-53; Soc. Sci. Res. Coun. res. fel. PSYCHOL, Yale, 56-57, vis. asst. prof, 57-58; asst. prof, California, Los Angeles, 58-62, assoc. prof, 62-65, PROF, CALIFORNIA, SAN DIEGO, 65- Vis. assoc. prof, Indiana, 62-63. Consult, Nat. Sci. Found. Adv. Panel Psychobiol, 63-65. U.S.A, 46-47. Psychol. Asn; Psychomet. Soc; Biomet. Soc; Statist. Asn. Mathematical psychology; experimental design and statistics; learning and social psychology. Publ: Analysis of sequential dependencies; Two learning models for responses measures on a continuous scale; Averaging versus adding as a stimulus-combination rule in impression formation, J. Exp. Psychol, 65. Address: Dept. of Psychology, University of California, La Jolla, Calif. 92037.

ANDERSON, PROF. ODIN W(ALDEMAR), b. Minneapolis, Minn, July 5, 14; m. 39; c. 2. SOCIOLOGY. B.A, Wisconsin, 37, M.A, 38; B.A.L.S, Michigan, 40, Ph.D.(sociol), 48. Asst, bur. pub. health econ, sch. pub. health, Michigan, 42-45, instr, 45-49; assoc. prof. in charge soc. aspects of med. & lectr. econ. & polit. sci, Western Ontario, 49-52; res. dir. health info. found, N.Y, 52-62; assoc. prof. SOCIOL, GRAD. SCH. BUS. & DEPT. SOCIOL, CHICAGO, 62-64, PROF, 64-, ASSOC. DIR. CENTER FOR HEALTH ADMIN. STUDIES, 64- Adj. assoc. prof, grad. sch. arts & sci, N.Y. Univ, 53-59; sch. pub. health & admin. med, Columbia, 59-62; res. dir. health Info. Found, Chicago, 62-64. Mem. res. cmt. soc. security admin, U.S. Dept. Health, Ed. & Welfare, 62-; U.S. Cmt. Vital & Health Statist, 62-66. Soc. Appl. Anthrop; Soc. Study Soc. Probs; fel. Pub. Health Asn; Asn. Hist. Med; fel. Sociol. Asn; hon. fel. Col. Hosp. Adminstr. Medical care organization and administration; population problems; social insurance. Publ: The uneasy equilibrium: private & public financing of health care in U.S, 1875-1965, Col. & Univ, 67; Administration of medical care; co-auth, Family medical costs and voluntary health insurance, a national survey. Address: 1325 E. 55th St, Chicago, Ill. 60615.

ANDERSON, DR. OSCAR D(ANIEL), Psychol, see 10th ed, Soc. & Behav. Vols.

ANDERSON, DR. PAUL H(AMILTON), Math, see 11th ed, Phys. & Biol. Vols.

ANDERSON, PEARL, b. Berea, Ky, Jan. 3, 09. ECONOMICS. A.B, Transylvania Col, 30; A.M, Kentucky, 38; Columbia, 45-46. Asst. prof. econ, TRANSYLVANIA COL, 36-67, REGISTR, 36- Sig.C, U.S.A, 45-46, 51-53. Address: Transylvania College, Lexington, Ky. 40508.

ANDERSON, DR. RALPH L(EROY), b. Keithsburg, Ill, June 18, 27; m. 58. PSYCHOLOGY. B.A, Chicago, 50; B.S, Illinois, 52, M.A, 54; Nebraska, 54-58; Ph.D.(psychol), North Dakota, 60. Asst. psychol, Illinois, 53-54; trainee clin. psychol, Nebraska, 54-57; Beatrice State Home, Nebr, 57-58; clin. psychologist, State Pub. Welfare Bd, N.Dak, 58-59; State Dept. Ment. Hyg, Calif, 59-66; COUNSELING PSYCHOLOGIST, SACRAMENTO STATE COL, 66- Consult, Yuba County Reading-Learning Center, 66-; Holly Acres Training Sch, 66- Fel, Inst. Rational Living, 65- U.S.A.F, 44-47. Psychol. Asn. Group dynamics; prediction of psychotherapeutic response; marathon groups. Address: 3110 Watt Ave, Sacramento, Calif. 95821.

ANDERSON, PROF. RALPH VICTOR, b. Kewanee, Ill, Jan. 11, 19; m. 51; c. 4. ECONOMICS. B.S, Ferris Inst, 47; M.S, Tennessee, 48; B.D, North. Baptist Theol. Sem, 51; North Carolina, 56-63. Instr. gen. bus, Wesleyan Col.(N.Y),

53-55; asst. prof. acct. & gen. bus, High Point Col, 55-58; West Liberty State Col, 58-62; ASSOC. PROF. ECON, ELON COL, 64- U.S.A.F, 41-45, T/Sgt. Price theory; economic history. Address: Dept. of Economics, Elon College, N.C. 27244.

ANDERSON, DR. RAYMOND E(LMER), b. Chicago, Ill, Apr. 30, 24; m. 50, 63; c. 4. CLINICAL PSYCHOLOGY. B.A, California, Los Angeles, 53, Ph.D, 58. Trainee psychol, Vet. Admin, 54-58; clin. psychologist, Suicide Prev. Center, Calif, 58-63; staff psychologist, Diamond Head Ment. Health Center, Hawaii, 63-64; CHIEF PSYCHOLOGIST, Pueblo Guid. Center, Colo, 64-66; WIS. STATE PRISON, 66- Private practice, 58- U.S.A.A.F, 42-46, 2nd Lt. Psychol. Asn. Collection and collation of psychological data on suicide attempt cases. Address: 119 Henry St, Beaver Dam, Wis. 53916.

ANDERSON, DR. RAYMOND L(LOYD), b. Beloit, Wis, Mar. 1, 27; m. 52; c. 1. AGRICULTURAL ECONOMICS. B.S, Minnesota, 51, M.S, 54; Ph.D, Wisconsin, 59. Agr. economist, U.S. DEPT. AGR, Mont. State Col, 54-56, agr. res. serv, Wisconsin, 58-59, asst. prof. econ, univ. & agr. economist, Colorado State, 59-61, AGR. ECONOMIST, ECON. RES. SERV, U.S. DEPT. AGR, 61- Res. assoc, grad. sch. pub. admin, Harvard, 65-66. U.S.A.F, 45-47. Farm Econ. Asn. Land and water use problems; value irrigation water and problems of transfer of water; problems of private land use for recreation. Publ: Irrigation water rental market, a case study & emerging nonirrigation demands for water, 10/65, Agr. Econ. Res; Windfall gains from transfer of water allotments, Land Econ, 8/67. Address: Dept. of Economics, Colorado State University, Ft. Collins, Colo. 80521.

ANDERSON, PROF. RAYMOND V(ERNON), b. Newfolden, Minn, Oct. 6, 22; m. 53; c. 3. POLITICAL SCIENCE. B.S, Moorhead State Col, 46; M.A, Minnesota, 49, Ph.D.(polit. sci), 62. Teacher soc. sci, Mayville State Col, 51-61; asst. prof, Western Illinois, 61-63; assoc. prof. POLIT. SCI, WIS. STATE, RIVER FALLS, 63-65, PROF, 65- U.S.N.R, 43-46, Lt.(jg). Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Adoption and operation of initiative and referendum in North Dakota; voter behavior in direct legislation elections. Publ: Contrib. ed, Dictionary of political science, Philos. Library, 64; auth, History of the adoption of initiative and referendum in North Dakota, N.Dak. Teacher, 5/60. Address: Dept. of Political Science, Wisconsin State University, River Falls, Wis. 54022.

ANDERSON, DR. RICHARD C(HASE), b. River Falls, Wis, May 8, 34; m. 55; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Harvard, 56, A.M, 57, scholar. & Ed.D, 60. Asst. psychol, Harvard, 57-59; res. assoc, N.Y. Univ, 59-60; res. psychologist, East Brunswick Schs, 60-63; ASSOC. PROF. ED. & PSYCHOL, ILLINOIS, URBANA, 63-, DIR. TRAINING RES. LAB, 66- Lectr, Rutgers, 60- Psychol. Asn; Ed. Res. Asn. Problem solving and development of logical thinking in six to twelve year olds. Publ: Can first graders learn an advanced problem solving skill? J. Ed. Psychol, 65; Sequence constraints and concept identification, Psychol. Reports, 66; Educational psychology, Ann. Rev. Psychol, 67. Address: 8 Lincoln Hall, University of Illinois, Urbana, Ill. 61801.

ANDERSON, PROF. RICHARD J(AMES), b. Brooklyn, N.Y, Jan. 26, 18; m. 41; c. 5. PSYCHOLOGY. B.A, Florida, 40, scholar, 40-41, M.A, 43; scholar, Michigan, 45-46, Ph.D, 50. Instr. math. & psychol, Florida, 43-44; asst, inst. human adjust, Michigan, 44-46; asst. prof, bur. voc. guid. & ment. hyg, FLORIDA, 46-50, assoc. prof. PSYCHOL, 50-56, PROF, 56- Consult, Vet. Admin, 55- Psychol. Asn. Psychometrics; history and systems in psychology; counseling. Address: Dept. of Psychology, University of Florida, Gainesville, Fla. 32603.

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ANDERSON, PROF. ROBERT, b. Bessemer, Mich, Feb. 17, 14; m. 47; c. 2. CULTURAL ANTHROPOLOGY. A.B, North. Mich. Col, 37; A.M, Michigan, 47, univ. fel, 48-49, Viking fel, 49, Ph.D.(anthrop), 51. Instr, Michigan, 50-51; asst. prof. ANTHROP, Fla. State, 51-54; UTAH, 54-56, assoc. prof, 56-63, PROF, 63-, LECTR. PSYCHIAT, 60- Am. Coun. Learned Socs. field fel, 51; Soc. Sci. Res. Coun. field grant, 52. U.S.A, 42-45. Fel. Anthrop. Asn; Ethnol. Soc. Social structure of Indians of the Northern Plains and Great Basin; kinship; primitive religions. Publ: The buffalo men, a Cheyenne ceremony of petition deriving from the Sutaio, Southwest. J. Anthrop; The northern Cheyenne war mothers, Anthrop. Quart. Address: Dept. of Anthropology, University of Utah, Salt Lake City, Utah 84112.

ANDERSON, DR. ROBERT C, b. Minneapolis, Minn, Aug. 18, 31; m. 53; c. 2. SOCIOLOGY, EDUCATION. B.S, Minnesota, 53, M.S, 59; Ph.D.(ed, sociol), Mich. State, 63. Exp. plot supvr, soil res. center, Rosemount Exp. Sta, Minnesota, 51-54, 4-H Club agent, agr. exten. serv, Kandiyohi County, 54, county agent, 56-60; spec. res. asst. theoret. res. develop, dept. sociol. & anthrop, MICH. STATE, 60-63, res. assoc. SOCIOL, 63-65, ASST. PROF, INST. COMMUNITY DEVELOP, 65-, ASST. DIR. ADMIN, 67- Consult, Nat. Center for Adv. Study & Res. in Agr. Ed. Projs, 64-65. Nat. cmt. mem, LIFE Lutheran-Ingathering for Ed, 67- Ord.C, U.S.A, 54-56. Sociol. Asn; Rural Sociol. Soc; Adult Ed. Asn; Univ. Exten. Asn. Specialization in organization theory, research methodology and analysis of large scale organizations, especially inter-organizational relationships. Publ: Co-auth, Parental aspiration: a key to the educational and occupational achievements of youth, Adult Leadership, 65; The young job-seekers' guide to skilled trades and technical occupations, 66 & Financial aid for Michigan college students 1966-67, 67, Mich. State. Address: Institute for Community Development, Room 27, Kellogg Center, Michigan State University, East Lansing, Mich. 48823.

ANDERSON, ROBERT F(LOYD), b. Ninety-Six, S.C, Apr. 6, 18; m. 46; c. 2. AGRICULTURAL ECONOMICS. B.S, Clemson Col, 39; M.S, Kentucky, 54. ASST. ECONOMIST, EXP. STA, GEORGIA, 48- U.S.A, 42-46, Capt. Agricultural marketing. Address: Georgia Experiment Station, Experiment, Ga. 30212.

ANDERSON, PROF. ROBERT L(EE), b. Ishpeming, Mich, Apr. 16, 23; m. 46; c. 2. PSYCHOLOGY. B.A, North. Mich. Col, 46; M.A, Columbia, 47; Ph.D, N.Y. Univ, 56. Instr. psychol, Upsala Col, 47-48; asst. prof, Skidmore Col, 48-56, assoc. prof, 56-57, clin. psychologist, 48-57; assoc. prof. PSYCHOL, EASTERN MICHIGAN, 57-62, PROF, 62- Clin. psychologist, Glen Falls Consult. Center, 49-53; instr, sch. ed, N.Y. Univ, 54-55; Am. Psychol. Asn. vis. scientist, 67, chmn. behav. sci. conf, Am. Psychol. Asn. & Nat. Sci. Found, 67. Consult, Am. Asn. Help Retarded Children, 53-57. U.S.N.R, 43-46. Psychol. Asn. Personality development; psychological counseling; teaching psychology; curriculum development; research training. Publ: Experimental investigation of group counseling with freshmen in a woman's college; Mental health programs in the public schools; Modification of teaching practices and course content in high school psychology, Res. Reports-USOE, 67. Address: Dept. of Psychology, Eastern Michigan University, Ypsilanti, Mich. 48197.

ANDERSON, PROF. ROBERT P(AUL), b. Chicago, Ill, June 23, 24; m. 46; c. 2. PSYCHOLOGY. M.A, Chicago, 51, Ph.D.(psychol), 54. Clin. psychologist & lectr. ed. psychol, Texas, 52-55; assoc. prof. PSYCHOL, TEX. TECH. COL, 55-63, PROF, 63-, REGIONAL COORDINATOR, PROJ. TALENT, 59- Voc. consult, bur. hearings & appeals, Soc. Security Admin, 64-; consult. counseling psychologist, Vet. Admin, 65- Private practice. U.S.A, 43-46. Psychol. Asn; Personnel & Guid. Asn; Acad. Psychother. Evaluation of counseling and psychotherapy; personality; rehabilitation of the disabled. Publ: Physiological and verbal behavior during client-centered therapy, J. Counseling Psychol; co-auth, A tactual form of the progressive matrices for use with blind children, Personnel & Guid. J, 65; Physiological considerations in learning the tactual mode, In: Learning disorders, vol. 2, 66. Address: 3601 21st St, Lubbock, Tex. 79410.

ANDERSON, PROF. ROBERT THOMAS, b. Calif, Dec. 27, 26. ANTHROPOLOGY. A.B, California, 49, M.A, 53, Ph.D.(anthrop), 56; Soc. Sci. Res. Coun. fel, Paris, 56-59, Dr.(sociol), 59. Asst. anthrop, California, 55-56; asst. prof, Washington (Seattle), 59-60; SOCIOL. & ANTHROP, MILLS COL, 60-67, PROF, 67- Vis. prof, California, 66-67, summer asst. prof, 60. U.S.N, 46-48. AAAS; Sociol. Asn. European ethnology; social organization; historical anthropology. Publ: The vanishing village, Washington, 64; Bus stop for Paris, Doubleday, 65. Address: 2686 Mountaingate Way, Oakland, Calif. 94611.

ANDERSON, ROBERT W(ILLIAM), b. Falconer, N.Y, June 17, 14; m. 39; c. 3. PUBLIC ADMINISTRATION. M.A, Cornell, 38; Soc. Sci. Res. Coun. fel, Princeton, 39-40. Head personnel dept, U.S. Naval Ord. Test Sta, 46-63; DIV. DIR. OFF. PERSONNEL, U.S. PUB. HEALTH SERV, 63- U.S.C.G, 43-46, Lt. Personnel management. Address: 4213 Ellicott St. N.W, Washington, D.C. 20016.

ANDERSON, DR. ROBERT W(ILLIAM), b. San Mateo, Calif, July 2, 26; m. 52; c. 4. POLITICAL SCIENCE. M.A, Chicago, 48; Ph.D, California, 60. Instr. soc. sci, Puerto Rico, 48-50, lectr. polit. sci, 51-54, asst. prof, 54-60, assoc. prof, 60-62; asst. prof, California, Berkeley, 62-64; chmn. dept, PUERTO RICO, 64-66, DEAN COL. SOC. SCI, 66- Fulbright lectr, Peru, 61. Consult, P.R. Civil Liberties Cmt, 58; Civil Rights Cmn, Commonwealth of P.R, 66. Polit. Sci. Asn; Soc. Pub. Admin. Political and social change in Latin America, especially political parties and groups; administrative process in the government of the Commonwealth of Puerto Rico; comparative bureaucracies. Publ: Party politics in Puerto Rico, Stanford Univ, 65; Los partidos y la representacion en el pensamiento politico Norteamericano & Partidos politicos en Puerto Rico; El contenido legal, Revista de Ciencias Sociales. Address: Padre Las Casas 205, EL Vedado, Hato Rey, P.R. 00918.

ANDERSON, DR. RODNEY DEAN, Mod. Latin Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ANDERSON, PROF. R(OICE) H(YRUM), b. Grover, Wyo, July 27, 17; m. 37; c. 4. AGRICULTURAL ECONOMICS. B.S, Wyoming, 39; M.S, Cornell, 41, Ph.D.(agr. econ), 43. Asst. prof. AGR. ECON, Wyoming, 43-44, 46-47; assoc. prof, UTAH STATE, 47-58, PROF, 58- Res. grant, food res. inst, Stanford, 59-60. U.S.N, 44-46. Poultry production and marketing; research in advertising and pricing of foods at retail. Publ: Organization and structure of egg marketing in Utah, Bull, Utah State Agr. Exp. Sta. Address: Dept. of Agricultural Economics, Utah State University, Logan, Utah 84321.

ANDERSON, PROF. RONALD S, Hist. & Comp. Ed, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ANDERSON, DR. ROSE G(USTAVA), b. Gothenburg, Nebr. PSYCHOLOGY. A.B, Nebraska, 17, fel. & A.M, 18; Ph.D.(psychol), Columbia, 25. Asst, psychol. clin, Bd. Ed, Cleveland, Ohio, 18-19; asst. & ment. exam, res. bur, State Bd. Control, Minn, 19-23; chief psychologist, Minneapolis Child Guid. Clin, 25-30; dir. bur. adjust, Westchester County Children's Asn, N.Y, 30-32; dir. children's div. & consult. to women, Psychol. Serv. Center, 32-42, dir. center, 42-58; PRIVATE RES, 58- V.pres, Psychol. Corp, 44-55. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; fel. Orthopsychiat. Asn; Personnel & Guid. Asn. Intelligence tests; personnel evaluation; personal and vocational counseling. Publ: Co-auth, Kuhlmann-Anderson tests of academic potential, Personnel Press, 62; A critical examination of test scoring methods, Arch. Psychol; Reported and demonstrated values of vocational counseling, J. Appl. Psychol. Address: 15-01 U Meadow Lakes, Hightstown, N.J. 08520.

ANDERSON, PROF. ROY NELS, b. Denver, Colo, June 29, 02; m. 29; c. 3. PSYCHOLOGY. A.B, Denver, 26; M.A, Columbia, 28, Ph.D.(guid. & personnel), 32. Dir. voc. guid. & placement, YMCA, New York, 28-27; asst. guid. & personnel, Columbia, 27-29, assoc, 29-37, asst. prof. ed, teachers col, 37-42; dir. ed. prog, S.H. Kress & Co, 43-46; PROF. ED. & HEAD DEPT. GUID, N.C. STATE, 46- Teacher & counsr, Pasadena Jr. Col, 40-41. Voc. consult, Bur. Hearings & Appeals, Dept. Health, Ed. & Welfare, 62- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. AAAS; fel. Psychol. Asn; Voc. Guid. Asn.(treas, 38-41, v.pres, 49); Col. Personnel Asn. Counseling; psychological testing; physically handicapped. Publ: The disabled man and his vocational adjustment; Inducting youth into employment; Review of clerical

tests, 1929-1942, Voc. Guid. J. Address: 117 Forest Rd, Raleigh, N.C. 27605.

ANDERSON, DR. RUSSELL H(OWARD), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ANDERSON, DR. SAMUEL W, b. Norwood, Mass, Sept. 11, 29; m. 58; c. 1. PSYCHOLOGY. B.A, George Washington, 58; Nat. Sci. Found. summer fel, Harvard, 61, Nat. Insts. Health fel, 63-64, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, WESLEYAN, 65- Summers, statistician, Bur. Census, Dept. Commerce, 58 & res. psychologist, 60 & res. asst. & fel, Harvard, 59, 61-64. AAAS; Psychol. Asn. Psychology of language and cognition; physiology of speech perception; mathematical models; statistics. Address: 12 Knowles Ave. Extension, Middletown, Conn. 06457.

ANDERSON, DR. SARAH FERRALL, b. Leetonia, Ohio, July 18, 05; m. 35. PSYCHOLOGY. A.B, Illinois, 29, A.M, 30, Ph.D.(psychol), 35. Asst. PSYCHOL, Illinois, 30-36; tutor, Radcliffe Col, 36-39; instr, WILSON COL, 39-46, asst. prof, 46-61, ASSOC. PROF, 61- Psychol. Asn. Experimental, clinical and mental testing; physiological psychology. Publ: Co-auth, Fear, anger and disease, their inter-correlation in normal and abnormal people & A comparison of the Wechsler-Bellevue Revised, Stanford Binet and American Council on Education tests at the college level, Am. J. Psychol; co-auth, The relation between the weight of the endocrine glands and measures of sexual, emotional and exploratory behavior in the male albino rat, J. Comp. Psychol. Address: Dept. of Psychology, Wilson College, Chambersburg, Pa. 17201.

ANDERSON, DR. SCARVIA B(ATEMEN), b. Baltimore, Md. PSYCHOLOGY. B.S, Miss. State, 45; M.A, Peabody Col, 51; Ph.D.(psychol), Maryland, 55. Res. psychologist, U.S. Naval Res. Lab, D.C, 51-56; asst. dir. & ed, coop. test div, ED. TESTING SERV, 56-65, dir. curriculum studies group, 65-67, DIR. DIV. ED. STUDIES, 67- Psychol. Asn; Coun. Measurement in Ed; Ed. Res. Asn. Human problem solving and learning; tests and measurements. Publ: Meeting the test; Prediction and practice tests at the college level, J. Appl. Psychol; Problem solving in the multiple goal situations, J. Exp. Psychol. Address: Educational Testing Service, Princeton, N.J. 08540.

ANDERSON, DR. STANLEY V(ICTOR), b. Alameda, Calif, Feb. 18, 28; m. 67. POLITICAL SCIENCE. B.A, California, 49, LL.B, 53, Ph.D, 61; Woodrow Wilson Found. traveling fel, Copenhagen, Denmark, 59-60, Am-Scandinavian Found. fel, 59-60. Lawyer, Fallon & Hargreaves, Attorneys, Calif, 54; asst. pub. defender, Alameda County, Calif, 57; assoc. soc. sci, CALIFORNIA, SANTA BARBARA, 60-61, asst. prof. POLIT. SCI, 61-66, ASSOC. PROF, 66- Vis. assoc. prof, California, Berkeley, 66-67. U.S.N, 46-48. Polit. Sci. Asn; Soc. Int. Law; Bar Asn. Comparative public law. Publ: Canadian Ombudsman proposals, Inst. Govt. Studies, Univ. California, 66; The Nordic Council, Univ. Washington, 67; ed, Ombudsmen for American government?, Prentice-Hall, 68. Address: Dept. of Political Science, University of California, Santa Barbara, Calif. 93106.

ANDERSON, PROF. THEODORE R(OBERT), b. Minneapolis, Minn, Nov. 3, 27; m. 52; c. 1. SOCIOLOGY. B.S, Minnesota, 48; M.S, Wisconsin, 51, Ph.D.(sociol), 53. Instr. SOCIOL, Yale, 53-55, asst. prof, 55-60; assoc. prof, Iowa, 60-62, PROF, 62-66; OREGON, 66-, DIR, CENTER URBAN ECOL, 67- Consult. mem, Nat. Sci. Found. Rev. Panel Sociol. & Sociol. Sci, 66-68. Sociol. Asn; Statist. Asn; Pop. Asn. Social statistics; demography; human ecology; urban population distribution. Publ: A basic course in statistics, Holt, 68; Intermetropolitan migration, Am. Sociol. Rev; Intermetropolitan migration, a correlation analysis, Am. J. Sociol. Address: Dept. of Sociology, University of Oregon, Eugene, Ore. 97403.

ANDERSON, PROF. T(HEODORE) W(ILBUR), JR, Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

ANDERSON, DR. THOMAS BENJAMIN, b. Cutbank, Mont, Sept. 21, 19. PSYCHOLOGY. B.A, East. Wash. State Col, 45; California, Berkeley, 49; M.Ed, Washington State, 60, Ed.D.(counseling, guid), 63. Dir. ment. health planning, Gov. Cmt. Ment. Health, Wash. State Dept. Health, 64-65; dir. div. planning eval. & community progs, Off. Ment Health, Harrisburg, Pa, 65-66; assoc. prof. psychol, Puget Sound, 66-67; ASST. DIR. PLANNING & EVAL, WASH. STATE DEPT. HEALTH, 67- U.S.N, 43-45. Psychol. Asn. Comprehensive health planning and mental health services. Publ: Congruence of self and ideal self and occupational choices, Am. Personnel & Guid. J, 10/65; co-auth, Washington State Plan for mental health services, 65; co-auth, Financing mental retardation services, In: The comprehensive mental retardation plan, Commonwealth of Pa. Address: Washington State Dept. of Health, Public Health Bldg, Olympia, Wash. 98501.

ANDERSON, DR. THOMAS D, b. Cleveland, Ohio, Sept, 23, 29; m. 56; c. 3. GEOGRAPHY. A.B, Kent State, 53, A.M, 56; Ph.D.(geog), Nebraska, 66. Asst. GEOG, Nebraska, 56-57, exten. instr, 57-59; ASST. PROF, State Univ. N.Y. Col. Geneseo, 59-64, BOWLING GREEN STATE, 64- Summers, exten. instr, Kent State, 60, lect, 61, 65, Virginia, 64, State Univ. N.Y. Albany, 66, Ore. Col. Ed, 67. U.S.A, 53-55, Res, 55-, 1st Lt. Asn. Am. Geog; Geog. Soc; Nat. Coun. Geog. Ed; Am. Inst. Urban & Regional Affairs. Cultural geography; land use on the urban fringe; vegetation. Address: Dept. of Geography, Bowling Green University, Bowling Green, Ohio 43402.

ANDERSON, DR. THOMAS E(DWARD), b. Denver, Colo, May 12, 21; m. 51. PSYCHOLOGY. B.S, Regis Col, 43; M.A, Catholic Univ, 49, Ph.D.(psychol), 52. Clin. psychologist, Vet. Admin. Hosp, St. Cloud, Minn, 52-55; dep. chief psychol. sect, U.S. Pub. Health Serv. Hosp, Ky, 55-58, dir. sch. ment. health study proj, Nat. Inst. Ment. Health, Fla, 58-59, psychologist, study center, Md, 59-60, psychol. consult, European Off, U.S. Pub. Health Serv, Paris, 60-63, exec. secy. ment. health proj. grants prog, NAT. INST. MENT. HEALTH, 63-65, CHIEF SECT. MENT. HEALTH OF AGING, 65- Consult, State Reformatory, Minn, 53-54. U.S.A, 42-46. Fel. Psychol. Asn; Geront. Soc. Mental health aspects and design and development of public health programs; gerontology. Address: Division of Special Mental Health Programs, National Institute of Mental Health, Chevy Chase, Md. 20203.

ANDERSON, PROF. THOMAS J(OEL), JR, Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

ANDERSON, PROF. TOTTON J(AMES), b. Beirut, Syria, May 28, 09; U.S. citizen. POLITICAL SCIENCE. A.B, California, 30, A.M, 31; Ph.D, Southern California, 46. Instr. & guid. counsr, pub. schs, Calif, 33-36, dean, city col, 36-42; from assoc. prof. to PROF. POLIT. SCI, SOUTHERN CALIFORNIA, 47-, ASSOC. DEAN DIV. SOC. SCI. & COMMUN, 66-, chmn. dept. polit. sci, 58-60, 62-63. Summer, vis. prof, Hawaii, 58. Nat. assoc. dir, Nat. Center Ed. in Polit, 54-55, South. Calif-Ariz. dir. Trustee, Coro Found; mem. exec. bd, State Legis. Intern Prog, Calif; exec. cmt, Calif. Constitutional Revision Cmn, 64- U.S.A.A.F, 42-46, Col. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Political parties; political dynamics; American government. Publ: Co-auth, Introduction to political science & Western politics; ed, The 1960 elections in the West, West. Polit. Quart. Address: Dept. of Political Science, University of Southern California, Los Angeles, Calif. 90007.

ANDERSON, PROF. VERNON, b. Manchester, Tenn, Jan. 25, 11; m. 35; c. 4. ACCOUNTING, FINANCE. B.A, Bowling Green Col. Commerce, 34; M.A, Kentucky; 39; Ed.S, George Peabody Col, 61. Instr. BUS, Freed-Hardeman Col.(Tenn), 35-40; PROF, MURRAY STATE, 40- Teaching methods; student guidance. Address: Route 2, Murray, Ky. 42071.

ANDERSON, DR. V(ICTOR) ELVING, Genetics, see 11th ed, Phys. & Biol. Vols.

ANDERSON, PROF. VIRGIL A(NTRIS), Speech Path, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

ANDERSON, DR. WALTER C(LINTON), Forest Econ, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

ANDERSON, DR. W(ALTON) J(AMES), b. Dubuc, Sask, Apr. 8, 13; m; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Saskatchewan, 42, M.S.A, 44, Sask. Agr. Found. scholar, 46-47; Ph.D, Chicago, 52. Economist, Can. Dept. Agr, 42-46; from assoc. prof. to prof. agr. econ. & chmn. dept, British Columbia, 47-63; DIR. RES, AGR. ECON. RES. COUN. CAN, 63- Mem, Soc. Sci. Res. Coun. Res. Inst, N.C, 56; summer, Rockefeller Found. res. fel, Queen's (Ont), 54. Chmn. Can. coun, Int. Conf. Agr. Econ, 58. Farm Econ. Asn; Can. Agr. Econ. Soc.(pres, 53-54); Agr. Inst. Can.(pres. elect, 59-60, pres, 60-61); Can. Polit. Sci. Asn. Land economics; farm management. Publ: Canadian wheat in relation to the world's food production and distribution, Mod. Press, 64; co-auth, A review of agricultural policy in Canada, 66 & auth, Agricultural policy in perspective, 67, Agr. Econ. Res. Coun. Can. Address: Agricultural Economics Research Council of Canada, Carlton University, Ottawa 1, Ont, Can.

ANDERSON, DR. WAYNE PERRY, b. Alfred, N.Dak, Dec. 6, 29; m. 52; c. 2. PSYCHOLOGY. B.A, Jamestown Col, 52; M.A, North Dakota, 53; Ph.D, Missouri, 58. Counsr, Missouri, 55-56; trainee counseling psychol, Jefferson Barracks Vet. Admin. Hosp, Mo, 56-58, counseling psychologist, 58-60; coordinator counseling psychol, Perry Point Vet. Admin. Hosp, 60-63; asst. prof. PSYCHOL, MISSOURI, 63-64, ASSOC. PROF, 64-, ASST. DIR. TESTING & COUNSELING SERV, 65-, counseling psychologist, 63-65. Consult, Vet. Admin, 66- Ed, J. Employ. Counseling, 66- AAAS; Psychol. Asn; Rehab. Asn; Personnel & Guid. Asn. Prediction of psychiatric patients potential for vocational rehabilitation and successful adjustment upon discharge from hospital; aptitudes and attitudes of disadvantaged; prediction of success in professional schools; training of counselors and psychotherapists. Address: Dept. of Psychology, University of Missouri, 201 Parker Hall, Columbia, Mo. 65201.

ANDERSON, PROF. WENDELL B(RYAN), b. U.S, Feb. 7, 13; m. 44; c. 6. POLITICAL SCIENCE, LAW. B.S, Utah State Agr. Col, 35, M.S, 40; LL.B, George Washington, 41; Oxford, 45. Asst. prof. POLIT. SCI, Utah State, 47-54; lectr, Southern California, 54-55; from assoc. prof. to PROF, UTAH STATE, 55-, DIR. INST. INT. AFFAIRS, 60- U.S.A, 41-47, Lt. Col. Polit. Sci. Asn; Am. Soc. Int. Law. International and constitutional law; international organization; comparative government. Address: Dept. of Political Science, Utah State University, Logan, Utah 84321.

ANDERSON, DR. WILHELM, b. Ross, Minn, May 6, 97; m. 35; c. 4. ECONOMICS. Ph.B, Chicago, 29, M.A, 30, Ph.D, 32; B.D, Meadville Theol. Sch, Ill, 31, S.T.M, 32. Economist, U.S. Dept. Agr, 33-46; chmn, nat. econ. bd, U.S. Dept. Army, Korea, 46-48; dep. chief, U.S. Econ. Coop. Admin. Mission, Korea, 48-50; dir. regional anal. div, econ. res. serv, U.S. Dept. Agr, 50-65; PRIVATE RES, 65- Superior serv. award, U.S. Dept. Agr, 60, distinguished serv. award, 63. R.A.F, 18-19, Lt. Philos. Asn. Economic research and analysis in foreign agriculture, especially supply, demand and trade; economic projections; European history and culture, particularly of north and northwestern Europe. Publ: World food budget, U.S. Dept. Agr, 61. Address: 2514 23rd Road N, Arlington, Va. 22207.

ANDERSON, DR. WILLIAM, b. Minneapolis, Minn, Oct. 25, 88. POLITICAL SCIENCE. A.B, Minnesota, 13; A.M, Harvard, 14, Ph.D, 17. Instr. govt, Harvard, 15-16; POLIT. SCI, MINNESOTA, 16-17, asst. prof, 17-20, assoc. prof, 20-25, prof, 25-57, EMER. PROF, 57-, chmn. dept, 27-32, 35-47, dir. bur. res. in govt, 19-28. Chmn. cmn. pub. admin, Soc. Sci. Res. Coun, 39-45. Mem. U.S. Cmn. on Intergovt. Rel, 53-55, consult, 59- AAAS; Polit. Sci. Asn.(v.pres, 29, pres, 42); Soc. Pub. Admin. American city government; fundamentals of American government; government units in the United States; the actual study and teaching of politics in the western world. Publ: The nation and the states, rivals or partners?; Man's quest for political knowledge, vol. I, The study and teaching of politics in ancient times, 64 & vol. II, Medieval and modern times, (in prep), Univ. Minnesota. Address: 111 Melbourne Ave. S.E, Minneapolis, Minn. 55414.

ANDERSON, PROF. WILLIAM F(REDERICK), JR, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

ANDERSON, DR. WILLIAM H, b. Dover, N.J, Sept. 21, 21; m. 48; c. 3. SOCIOLOGY. B.A, Wheaton Col, 46; B.D, Pittsburgh Theol. Sem, 49; Ph.D.(relig.

ed), N.Y. Univ, 60. Pastor, United Presby. Churches, 49-64; ASST. PROF. SOCIOL, VA. UNION, 64- U.S.A, 43-46; U.S.A.F, 50-52, Res, 52-, Maj. Sociol. Asn; Anthrop. Asn; Soc. Sci. Study Relig. Analysis of social processes in local church congregations. Address: Dept. of Sociology, Virginia Union University, Box 394, Richmond, Va. 23220.

ANDERSON, PROF. WILLIAM H(ARRY), b. Marinette, Wis, June 9, 05. ECONOMICS. A.B, Wisconsin, 28, LL.B, 38, Ph.D, 45. Security analyst, Ill, 28-29; head soc. sci. dept, West Chicago, 29-36; instr. ECON, Wisconsin, 42-45, asst. prof, exten. div, 45-46; from assoc. prof. to prof, Southern California, 46-66; LINCOLN PROF. PUB. FINANCE, CLAREMONT MEN'S COL. & CLAREMONT GRAD. SCH, 66-, acting dir, Lincoln Sch. Pub. Finance, 67-68. Attorney, 38-46. Econ. Asn. Taxation, government and fiscal policy; Supreme Court and recent public utility valuation theory; public utility holding companies; taxation and the American economy. Address: 539 Wesley Way, Claremont, Calif. 91711.

ANDERSON, DR. W(ILLIAM) H(ENRY) LOCKE, b. Pittsburgh, Pa, Feb. 23, 33; m. 57; c. 3. ECONOMICS, STATISTICS. B.A, Williams Col, 55; Ph.D, Harvard, 60. Instr. ECON, Harvard, 59-60; from asst. prof. to ASSOC. PROF, MICHIGAN, 60- Econmet. Soc. Econometrics; business cycles. Address: Dept. of Economics, University of Michigan, Ann Arbor, Mich. 48104.

ANDERSON, DR. WILLIAM O(TIS), b. Columbus, Ohio, Mar. 3, 18; m. 47; c. 2. BUSINESS ADMINISTRATION. B.S, Ohio State, 39, M.B.A, 41, Ph.D.(bus. admin), 50. SR. V.PRES, OHIO NAT. BANK, 50- Lectr, Ohio State, 52-60. U.S.A.A.F, 42-46. Econ. Asn; Statist. Asn. Commercial banking. Address: 54 S. Cassingham Rd, Columbus, Ohio 43209.

ANDERSON, DR. WILLIAM S, JR, b. Watervliet, N.Y, Nov. 25, 25; m. 51; c. 3. PSYCHOLOGY. B.A, Union Col, 50; M.A, Yale, 51; Ph.D.(ed. psychol), Cornell, 54. Assoc. prof. PSYCHOL, Winthrop Col, 54-56; Alfred, 56-62; PROF, MASS. STATE COL, NORTH ADAMS, 62- U.S.A, 44-46. Psychol. Asn. Career development; learning disabilities. Address: Green River Rd, Williamstown, Mass. 01267.

ANDERZHON, PROF. MAMIE L(OUISE), b. Farragut, Iowa, July 28, 06. GEOGRAPHY. Ph.B, Chicago, 38, M.S, 48; summer, McGill, 51. Teacher, pub. schs, Iowa, 23-29; Ill, 30-42, 45-56; researcher, U.S. Army Map Serv, Wash, D.C, 42-45; teacher, All India Coun. Sec. Ed, 56-57; pub. schs, Ill, 57-61; ASSOC. PROF. GEOG, INDIANA UNIV. PA, 61- Fulbright teaching grant & Delta Kappa Gamma for. fel, India, 56; summers, instr, Iowa, 55, 60-61, vis. prof, Hawaii, 65, Nat. Defense Ed. Act. Geog. Inst, 66. Asn. Am. Geog; Nat. Coun. Geog. Ed.(pres, 62). Geography and teacher education in southeast Asia, especially India. Publ: Steps in map reading; Evaluation of geographic learning, Curriculum Guide Geog. Ed; Teaching geography out-of-doors, New Viewpoints in Geog. Address: Dept. of Geography, Indiana University of Pennsylvania, Indiana, Pa. 15701.

ANDIC, PROF. VOJTECH ERVIN, Econ, see 10th ed, Soc. & Behav. Vols.

ANDO, PROF. ALBERT K, b. Tokyo, Japan, Nov. 15, 29. ECONOMICS. B.S, Seattle (St. Louis), 51; M.A, St. Louis, 53; M.S, Carnegie Inst. Tech, 55, Ph.D, 58. Economist, Bank Japan, 53; instr, Carnegie Inst. Tech, 56-57; asst. prof. ECON, Mass. Inst. Tech, 57-64; PROF, PENNSYLVANIA, 64- Sr. economist, Int. Monetary Fund, summer 59. Consult, Arthur D. Little, Inc. Econ. Asn; Econmet. Soc; Inst. Math. Statist. Econometrics; theory of economic growth and fluctuations; monetary theory and policy. Publ: Aggregation of variables in dynamic systems, Econometrica; co-auth, Permanent income and the life cycle hypotheses of saving behavior: comparison and tests & Growth, fluctuations and stability. Address: Dept. of Economics, Wharton School of Finance & Commerce, University of Pennsylvania, Philadelphia, Pa. 19104.

ANDREANO, PROF. RALPH, b. Waterbury, Conn, Apr. 11, 29; m. 55; c. 1. ECONOMICS. A.B, Drury Col, 52; Fulbright fel, Oslo, 52-53; M.A, Washington (St. Louis), 55; Carter fel, Rice Inst, 55-56; Ph.D, Northwestern, 60. Instr. econ, Northwestern, 59-60; asst. prof, Earlham Col, 60-61, assoc. prof. & chmn. dept, 62-65; asst. prof. BUS. ADMIN, grad. sch. bus. admin, Harvard, 61-62; assoc. prof. WISCONSIN, 65-67, PROF, 67- Brooking Nat. Res. Prof, 64-65; Ford Found. faculty res. fel, 68-69. Del, Am. Coun. Learned Soc, 65- Econ. Asn; Econ. Hist. Asn. Economic history and development; industrial organization. Publ: Co-auth, A history of the American petroleum industry, Northwestern, Vol. 1, 59, Vol. II, 63; auth, No joy in Mudville: the dilemma of major league baseball & New views on American economic development, 65 Schenkman. Address: 5102 Coney Weston Place, Madison, Wis. 53711.

ANDREAS, DR. B(URTON) G(OULD), b. Rochester, N.Y, Apr. 6, 21; m. 43; c. 1. PSYCHOLOGY. Ph.D.(psychol), Iowa, 51. Res. assoc, Rochester, 51-53, asst. prof. psychol, 53-58, assoc. prof, 58-67; ASST. DIR, EAST. REGIONAL INST. ED, 67- U.S.A, 42-46, Capt. Psychol. Asn. Behavior theory; applied psychology; educational development. Publ: Experimental psychology; Psychological science and the educational enterprise, Wiley, 68; Motor conflict behavior as a function of motivation and amount of training, J. Exp. Psychol. Address: Eastern Regional Institute for Education, 635 James St, Syracuse, N.Y. 13203.

ANDREASEN, DR. ALAN R(OBERT) b. Toronto, Ont, Dec. 1, 34; m. 65. MARKETING. B.A, Western Ontario, 56; M.S, Columbia, 59, Ph.D.(bus), 64. Mem. staff sales div, Gen. Motors Can. Ltd, 56-58; lectr. MKT. & BUS. ADMIN, STATE UNIV. N.Y. BUFFALO, 62-64, asst. prof, 64-67, ASSOC. PROF, 67- Mkt. Asn; Sociol. Asn; Asn. Pub. Opinion Res. Consumer behavior; marketing research; geographic mobility. Publ: Attitudes and customer behavior: a decision model, Int. Bus. & Econ. Res. Univ. California, 66; Geographic mobility and market segmentation, J. Mkt. Res, 11/66; Potential marketing application of longitudinal analysis, Proc. Am. Mkt. Asn, winter 66. Address: 166 Beard Ave, Buffalo, N.Y. 14214.

ANDREASSI, DR. JOHN LAWRENCE, b. Bronx, N.Y, Oct. 23, 34. PSYCHOLOGY. B.A, City Col. New York, 56; M.A, Fordham, 59; U.S. Pub. Health Serv. fel, Western Reserve, 61-64, Ph.D.(psychol), 64. Psychologist, Dunlap & Assocs, Inc, 58-61; U.S. Naval Training Device Center, 64-67; ASST. PROF. INDUST. ENG, N.Y. UNIV, 67- Visual perception, learning and physiological correlates of behavior. Publ: Effects of induced muscle tension and auditory stimulation in tachistoscopic perception, Perceptual & Motor Skills, 65; Some physiological correlates of learning task difficulty, Psychonomic Sci, 66; Skin-conductance and reaction-time in a continuous auditory monitoring task, Am. J. Psychol, 66. Address: Dept. of Industrial Engineering & Operations Research, New York University, Bronx, N.Y. 10453.

ANDRESS, PROF. A(LLEN) E(UGENE), b. Chadron, Nebr, Aug. 29, 04; m. 29, 48; c. 1. ECONOMICS. A.B, Doane Col, 25; fel, Clark, 28-29, M.A, 29; fel, Princeton, 36-37, Ph.D.(econ), 39. Instr. ECON, Lafayette Col, 29-35; Princeton, 35-39; asst. prof, HIRAM COL, 39-43, prof, 43-66, EMER. PROF, 66- Econ. Asn. Economic principles; accounting; money and banking. Publ: The securities act of 1932, Christian Sci. Monitor. Address: Box 164, Hiram, Ohio 44234.

ANDREW, DR. DEAN C(AROL), b. Trenton, Utah, June 23, 22; m. 43; c. 2. PSYCHOLOGY. B.S, Utah State Col, 46, M.S, 47; Ph.D.(ed, psychol), Utah, 51. Vet. counsr. Idaho State Col, 47-49; instr. ed. psychol, Utah, 51-52; prof. psychol. & dir. counseling, SOUTH. STATE COL, 52-57, ACAD. DEAN, 57- Consult, Ford Found. Eval. Workshop, 56; bur. hearings & appeals, Soc. Security Admin, 64- U.S.M.C, 42-45. Psychol. Asn; Personnel & Guid. Asn. Student personnel. Publ: Co-auth, 120 readings in guidance; Administration and organization of guidance services & Barriers to college attendance. Address: 814 Smith St, Magnolia, Ark. 71753.

ANDREW, DR. GARY MARTIN, b. Celina, Ohio, June 4, 38; m. 59; c. 3. OPERATIONS RESEARCH. A.B, DePauw, 61; B.S, Case Inst. Tech, 61, Ph.D.(opers. res), 66. Res. asst. OPERS. RES, opers. res. group, Case Inst. Tech, 61-64; instr, MINNESOTA, MINNEAPOLIS, 64-66, ASST. PROF, 66- Lectr, Date Processing Mgrs. Asn, 64. Consult, Cleveland Elec. Illum. Co, 60; Thompson-Ramo-Wooldridge, Inc, 62-63; sch. dent, Western Reserve, 63-64; several railroads, 67- Am. Statist. Asn; Opers. Res. Soc. Am; Inst. Mgt. Sci; Opers. Res. Soc. Japan; Oper. Res. Soc. U.K. Combinatorial programming; set covering problems as a formulation of scheduling problems. Publ: Co-auth, Abstracts of statistical computer routines, Case Statist. Lab, 61; Tables for application of the method of parabolic curves to a balanced arrangement, Sankhya, 64; auth, A note on the use of statistics in rate determination, J. Risk & Ins, 68. Address: Dept. of Operations Research, School of Business Administration, University of Minnesota, Minneapolis, Minn. 55455.

ANDREW, DR. GWEN, b. Platteville, Wis, June 18, 22. SOCIOLOGY. Ph.B, Wisconsin, 44, M.A, 45; Ph.D.(sociol, anthrop), Mich. State, 61. Chief psychometrist, Wisconsin, 45-48; res. psychologist, Mich. Dept. Ment. Health, 49-54, chief res. sociol, 54-64, assoc. dir. res, 64-66; assoc. prof. human learning res, MICH. STATE, 66-67, col. human med, 67-68, DIR. SCH. SOC. WORK, 68- AAAS; Sociol. Asn; Psychol. Asn. Systems analysis; development of theoretical models for bureaucratic organizations. Publ: An analytic system model for organization theory, Acad. Mgt. J, 9/65; Uses of data in planning community psychiatric services, Am. J. Pub. Health, 65; Some observations on management problems in applied social research, Am. Sociologist, 5/67. Address: 2130 Marquerite, Lansing, Mich. 48912.

ANDREWS, DR. CHARLES H(AYNES), b. Waycross, Ga, Nov. 30, 37; m. 61; c. 1. ECONOMICS. A.B, Mercer, 60; Woodrow Wilson fel, Vanderbilt, 60-61, Earhart fel, 61-62; For. Area Fel. Prog. fel, 62-63, summers 64, 65, Ph.D.(econ), 67. ASST. PROF. ECON, STETSON, 64-, ACTING CHMN. DEPT, 67- Econ. Asn. Benefit-cost analysis utilizing estimated shadow prices in assessing investment projects ranks and performance. Address: Dept. of Economics, Stetson University, DeLand, Fla. 32720.

ANDREWS, DR. DAVID HENRY, b. Washington, D.C, Jan. 23, 33; m. 56; c. 2. ANTHROPOLOGY. B.A, Ohio Wesleyan, 54; M.A, Cornell, 59, Ph.D.(anthrop), 63. Res. assoc. anthrop, Cornell, 63-64; asst. prof, Iowa, 64-68; ASSOC. PROF. SOCIOL. & ANTHROP, MIDDLEBURY COL, 68- Pan Am. Union, Agr. Develop. Coun. & Old Gold Found. summer res. fels, Iowa, 66. U.S.A.F, 54-56, Capt. Anthrop. Asn; Ethnol. Soc; Soc. Appl. Anthrop. Ethnology of indigenous South America; Latin America; ethnoscience; culture change, particularly as manifested in the development process. Publ: Latin America, a bibliography of paperback books, U.S. Govt. Printing Off, 64; Paucartambo, Pasco, Peru, whence... whither, report number 7, Dept. Anthrop, Cornell, 65; Migracion e integracion en Paucartambo, Pasco, Peru, In: Migracion e integracion en el Peru, Estudios Andinos, Lima, 63. Address: Dept. of Sociology & Anthropology, Middlebury College, Middlebury, Vt. 05753.

ANDREWS, DR. E(DWARD) WYLLYS, IV, b. Chicago, Ill, Dec. 11, 16; m; c. 6. ANTHROPOLOGY. B.A, Harvard, 38, Ph.D, 42. Archaeologist, Carnegie Inst, 39-43; with U.S. Govt, 46-49; ARCHAEOLOGIST, MID. AM. RES. INST, TULANE, 49-, DIR, TULANE-NAT. GEOG. SOC. PROG. RES, YUCATAN PENINSULA, 56- Guggenheim fel, 49-50. U.S.N.R, 42-46, Lt; Legion of Merit. AAAS; fel. Anthrop. Asn; fel. Soc. Am. Archaeol. Meso-American anthropology, archaeology and hieroglyphic writing; ecology, zoology and botany of Meso-America. Publ: Archaeology of Southwestern Campeche; Maya supplementary series; Excavations at Dzibilchaltun, Northwestern Yucatan, Mexico, Proc. Am. Philos. Soc. Address: Quinta Mari, Calle 13, 203-A, San Cosme, Mérida, Yucatan, Mex.

ANDREWS, DR. FRANK M(EREDITH), b. New York, N.Y, Apr. 2, 35; m. 62. SOCIAL PSYCHOLOGY. B.A, Dartmouth Col, 57; Sydney, 58; New Sch. Soc. Res, 59; Ph.D.(soc. psychol), Michigan, 62. Study dir, Russell Sage Found, 59; STUDY DIR, INST. SOC. RES, UNIV. MICHIGAN, 62-, ASST. PROF. PSYCHOL, UNIV, 67-, lectr, 63-66. Psychol. Asn; Sociol. Asn; Soc. Int. Develop. Influence of laboratory environments on creativity and performance of scientists and engineers; survey research methodology; social psychology of economic and social development. Publ: Co-auth, Scientists in organizations, Wiley, 66; auth, Factors affecting the manifestation of

creative ability by scientists, J. Personality, 3/65; Creative ability, the laboratory environment, and scientific performance, IEEE Trans. Eng. Mgt, 6/67. Address: Institute for Social Research, University of Michigan, Ann Arbor, Mich. 48106.

ANDREWS, PROF. HENRY L(UCIAN), b. Mt. Gilead, N.C, Apr. 22, 09; m. 39. SOCIOLOGY, ANTHROPOLOGY. A.B, Duke, 31, M.A, 33; fel, Northwestern, 35-36, 49-50, Ph.D.(sociol), 53. Asst, Duke, 34-35; instr. SOCIOL, ALABAMA, 36-43, asst. prof, 43-46, assoc. prof, 46-53, PROF, 53-, acting head dept. sociol. & anthrop, 43-48, 53-54. Sociol. Asn; Rural Sociol. Soc. Population and human ecology; population trends in Alabama. Address: Box 797, University, Ala. 35486.

ANDREWS, DR. HORACE P(ORTER), Agr. & Biol. Chem, see 11th ed, Phys. & Biol. Vols.

ANDREWS, DR. JAMES M(ADISON), Anthrop, see 10th ed, Soc. & Behav. Vols.

ANDREWS, DR. JOHN T(HOMAS), b. Millom, Eng, Nov. 8, 37; m. 61; c 1. GEOMORPHOLOGY. B.Sc, Nottingham, 59, Nat. Res. Coun. Can. NATO scholar, 64-65, Ph.D.(geomorphol), 65; M.Sc, McGill, 61. Res. scientist, Can. Govt, 61-67; ASST. PROF. GEOL, COLORADO, 68- Geol. Soc; Asn. Am. Geog. Glacial chronology and glacioisostatic uplift. Publ: The till fabric of the Cross-Valley moraines: Baffin Island, Geol. Soc. Am, 65-66; Postglacial rebound in arctic Canada: similarity and prediction of uplift curves, Can. J. Earth Sci, 67; Postglacial uplift and rates of rebound in arctic Canada: cause and effect, J. Geol, 67. Address: Institute of Arctic & Alpine Research, University of Colorado, Boulder, Colo. 80302.

ANDREWS, DR. RICHARD A(UGUSTUS), b. Princeton, Maine, Sept. 8, 25; m. 49; c. 1. RESOURCE ECONOMICS. B.S, Maine, 49; M.S, Pa. State, 51; Tozer Found. scholar. & Ph.D, Minnesota, 59. Asst. mkt, Pa. State, 49-50; county agent, agr. ext, Univ. Maine, 50-52; agr. economist, Alaska Agr. Exp. Sta, 52-55; res. asst. AGR. ECON, Minnesota, 55-59; ASSOC. PROF, NEW HAMPSHIRE, 59- U.S.A.A.F, 43-46, 2nd Lt. Farm Econ. Asn.(award, 60); Acad. Polit. & Soc. Sci. General agricultural and resource economics; welfare of rural people; production economics; marketing agricultural products; farm management. Publ: Study of the sweet corn industry in the Midwest farm economy; Farming in Alaska; co-auth, Relevant production considerations associated with analysis of interregional competition, J. Farm Econ, 5/64. Address: Dept. of Resource Economics, University of New Hampshire, Durham, N.H. 03824.

ANDREWS, PROF. T(HOMAS) GAYLORD, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

ANDREWS, DR. VICTOR L, JR, b. Huntington, W.Va, June 23, 30; m. 54. ECONOMICS, FINANCE. B.A, Chicago, 51, M.A, 53, M.B.A, 54; Ph.D, Mass. Inst. Tech, 58. Asst, indust. rels, center, Chicago, 53-55; asst. finance, sch. indust. mgt, Mass. Inst. Tech, 55-57, instr. finance & econ, 57-58, asst. prof. finance, 58-61; BUS. ADMIN, GRAD. SCH. BUS. ADMIN, HARVARD, 61-65, ASSOC. PROF, 65-, consult, credit res. found, grad. sch. credit & financial mgt, 65- U.S.A.R, 51-57. Econ. Asn; Finance Asn. Capital markets; corporate capital budgeting and structures; computer applications. Publ: Co-auth, Financial management; cases and readings, Irwin, 67; auth, Noninsured corporate and state and local government retirement funds in the financial structure, Cmn. Money & Credit, 64; Interest rates, liquidity and the financing of captive finance companies, Nat. Banking Rev, 6/65. Address: Harvard Business School, Harvard University, Soldiers Field, Boston, Mass. 02163.

ANDREWS, PROF. WADE H(UFF), b. Ogden, Utah, July 5, 16; m. 44; c. 5. SOCIOLOGY. B.S, Utah State, 47, M.S, 49; Ph.D, Mich. State, 56. Asst. sociol, Utah State, 47-48; Mich. State, 48-50; asst. prof. rural sociol, Ohio State, 51-57, assoc. prof, 57-63; soc. sci. analyst, U.S. Dept. Agr, 63-65; PROF. SOCIOL. & WATER RES, UTAH STATE, 65-; CHMN, INST. SOC. SCI. RES. NATURAL RESOURCES, 68- Vis. prof, col. bus. admin, Idaho, 59; lectr, Orgn. Am. States Land & Water Resource Center, Venezuela, 67. Community develop. consult, U.S. Agency Int. Develop, Bolivia, 66; Mem. nat. cmt, Univ. Coun. Water Resource Res. & chmn, Task Group Prfnl. Develop. Soc. Sci, 66- U.S.A.A.F, 42-45, Capt. Sociol. Asn; Rural Sociol. Soc. Sociology of natural resources; social organization; water resources development; social change; community organization and development. Publ: A case study of rural community development and leadership, 58, co-auth, The new community, adjustment of migrants and nonmigrants in the rural fringe, 63 & The effects of industrialization on a rural county, 67, Ohio Agr. Exp. Sta. Address: Dept. of Sociology, Utah State University, Logan, Utah 84321.

ANDREWS, PROF. WILLIAM GEORGE, b. Windsor, Colo, Aug. 5, 30; m. 54; c. 4. POLITICAL SCIENCE. B.A, Colorado State, 52; Fulbright fel, Bordeaux, 54-55, cert, 55; Ph.D, Cornell, 59. Asst. govt, Cornell, 55-58; from instr. to asst. prof, Dartmouth Col, 58-61; asst. prof, Tufts, 61-64, assoc. prof. POLIT. SCI, 64-67; PROF. & CHMN. DEPT, STATE UNIV. N.Y. COL. BROCKPORT, 67- Nat. Defense Ed. Act fel, 60; Fulbright res. scholar, France, 62-63. Gen. ed, Van Nostrand New Perspectives in Polit. Sci. Series, 62- U.S.A.F, 52-54, Res, 54-, 1st Lt. Polit. Sci. Asn. Comparative government, especially the Western democracies. Publ: Soviet institutions and policies, 66, co-auth, European politics, 66, 68 & Politics and civil liberties in Europe, 67, Van Nostrand. Address: P.O. Box 194, Brockport, N.Y. 14420.

ANDREWS, PROF. WILLIAM H(ALSTEAD), b. Bedford, Ind, Jan. 5, 13; m. 33; c. 2. ECONOMICS. B.S, Indiana, 33, A.M, 37; Ph.D, Chicago, 49. Instr. ECON, Purdue, 37-41; asst. prof, INDIANA, 49-54, assoc. prof, 55-59, PROF, 60- Ford Found. Faculty res. fel, 59-60. Consult, Ind. Tax Cmn, 54-55. U.S.N.R, 44-46. Am. Econ. Asn; Economet. Soc; Statist. Asn; Royal Econ. Soc. Public finance; statistics; econometrics. Publ: Co-auth, Unemployment benefits, experience rating and employment stability, Nat. Tax J; Public finance, In: Indiana's economic resources and potential; Labor requirement estimates of employers and economic fluctuations. Address: Dept. of Economics, Indiana University, Bloomington, Ind. 47401.

ANDREYCHUK, DR. THEODORE, b. Detroit, Mich, Dec. 1, 16; m. 43. PSYCHOLOGY. Hogg Found. fel. & Ph.D.(ed. psychol), Texas, 54. Couns. psychologist, Vet. Admin. Hosp, Downey, Ill, 54-57; mgt. psychologist, Rohrer, Hibler & Replogle, 57-62; PROF. PSYCHOL. & CHMN. DEPT, TEX. TECH. COL, 62- Consult, Vet. Admin, 64-67. U.S.A.A.F, 43-46. Psychol. Asn. Counseling; psychotherapy; personality development; personality change. Address: Dept. of Psychology, Texas Technological College, Lubbock, Tex. 79409.

ANDRIOLA, PROF. JOSEPH, b. New York, N.Y, July 19, 13; m. 39; c. 2. SOCIAL WORK. A.B, Michigan, 38, M.S.W, 42; Columbia, 44; U.S. Pub. Health Serv. fel, Minnesota, 50-51, Ph.D.(soc. work), 53. Probtn. officer, Ohio, 38-39; exec. dir, Family Serv. Bur, Mich, 41-43; caseworker, Community Serv. Soc, N.Y, 43-45; asst. dir, Community Welfare Coun, Calif, 45-46; ed, Soc. Serv. Digest, 46-47; psychiat. soc. worker, State Dept. Mental Hyg, Calif, 47-49; chief psychiat. soc. worker, Patton State Hosp, 49-55; assoc. prof, sch. soc. work, Oklahoma, 55-57; chief psychiat. soc. worker, Atascadero State Hosp, Calif, 57-64; dir. training, Sacramento County Welfare Dept, Calif, 64; dir. Alcoholic Rehab. Clin, Sacramento County Health Dept, 64-65; ASSOC. PROF. & MAJOR PROF. UNDERGRAD. SOC. WORK, COL. BUS. & PUB. ADMIN, ARIZONA, 65- Private practice, 52-62. Mem, Coun. Social Work Ed. AAAS; Nat. Asn. Soc. Workers. Social work theory and history; experimental designs to test hypotheses in social work practice; behavior of sexual deviates; prevention of alcoholism and the comprehensive treatment of the alcoholic patient. Publ: Social case work as a democratic process, Psychiatry, 8/44; Comparative study of nontruant and truant children, Proc. Okla. Acad. Sci, 55. Suggested criteria for determining success and failure in the treatment of hospitalized sex offenders, Corrective Psychiat. & J. Soc. Therapy, 7/66. Address: Dept. of Public Administration, University of Arizona, Tucson, Ariz. 85721.

ANDRLE, DR. ROBERT F(RANCIS), Biogeog, Ornithol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

ANDRON, DR. MORTIMER, b. New York, N.Y, Mar. 15, 16; m. 42; c. 4. ECONOMICS, STATISTICS. B.A, California, Los Angeles, 36; M.A, Oregon, 39; Ph.D, Illinois, 42. Asst. prof. ECON, CALIFORNIA, SANTA BARBARA, 47-54, assoc. prof, 54-68, PROF, 68- Consult, Rand Corp, 47-50; Gen. Elec. Co, 58-60; Borg-Warner Corp, 60- Econ. Asn; Statist. Asn. Economic theory. Publ: Worker attitudes and economic growth; Economic justice in wartime; The role of psychology in economic theory, Proc. West. Econ. Asn. Address: Dept. of Economics, University of California, Santa Barbara, Calif. 93106.

ANDRUS, DR. J(AMES) RUSSELL, b. Puyallup, Wash, Sept. 19, 02. ECONOMICS. A.B, Redlands, 25, hon. L.H.D, 63; A.M, California, 26, Ph.D, 34; Cambridge. Head dept. econ, Judson Col, Rangoon, 28-40, dean men, 30-33, off. prof. econ, univ, 36-39, prof, 40-41; dep. chief ed. div, Int. Coop. Admin, 51-56, univ. contract coordinator, 56-57, asst. prog. officer, U.S. Opers. Mission, Korea, 58-59, cent. rep, 59-60, rep. to Iraq, Agency Int. Develop, 60-63, asst. dir. tech. serv, Vientiane, Laos, 63-65, chief ed. div, mission to Laos, 65-67; PROF. ECON, EAST. BAPTIST COL, 68- Vis. prof, Redlands, 40-42; sr. res. analyst, U.S. Dept. Commerce, Wash, D.C, 42-44; Off. War Info, New Delhi, India, 44-45; U.S. Dept. State, 45-47; Am. Embassy, Rangoon, Burma, 47-49; Karachi, Pakistan, 49-50. Econ. Soc; Soc. Int. Develop. Burmese and Pakistan economics. Publ: Burmese economic life, Stanford Univ. Press, 48; co-auth, Economy of Pakistan, 58 & Trade, finance and development in Pakistan, 66, Oxford Univ. Press. Address: Eastern Baptist College, St. Davids, Pa. 19087.

ANDRUS, DR. ROMAN R, b. Los Angeles, Calif, May 19, 34; m. 62; c. 3. MARKETING. B.S, Brigham Young, 58; M.S, Columbia, 59, grants & Ph.D. (mkt. innovation), 65. Asst. dir. Arden House, Columbia, summer 60, lectr. mkt, 60-61; compensation analyst, Esso Int, Inc, summer 61; asst. prof. bus. admin, Brigham Young, 61-64; MKT, Iowa, 65-66; ASSOC. PROF, OREGON, 66-, faculty res. grants, 67-68. U.S.A.R, 57. Mkt. Asn. Promotional strategies; personal information and loyalty patterns; diffusion of innovations; new product generation and evaluation. Publ: Creativity: a function for computer or executives, J. Mkt, 4/68; The identification of innovative consumers, Miss. Valley J. Bus. & Econ, fall 68. Address: School of Business Administration, University of Oregon, Eugene, Ore. 97403.

ANDRUS, DR. RUTH, b. Syracuse, N.Y, Mar. 12, 86. PSYCHOLOGY. A.B, Vassar Col, 07, A.M, 08; Ph.D.(psychol), Columbia, 24. Dir. child guid. clin, Monmouth County Orgn. Soc. Serv, N.J, 24-26; asst. prof. ed. & res. assoc, teachers col, Columbia, 26-27, assoc. prof. ed. & act. dir. inst. child welfare res, univ, 27-28; chief child develop. & parent ed. bur, State Ed. Dept, N.Y, 28-52; dir, Cold Spring Inst, 52-55, prog. coordinator, 55-57; PSYCHOTHERAPIST, DUTCHESS COUNTY MENT. HEALTH CLIN, 57- Trustee, Russell Sage Col, 33-38; Bard Col, 49-55; Mills Col, 52-65; Bank St. Col. Ed, 52-57. Chmn. sect. III, White House Conf. Children in a Democracy, 29; mem. White House Conf. Aging, 61. Fel. Psychol. Asn; fel. Geront. Soc; fel. Soc. Res. Child Develop. Publ: An inventory of habits of children from two to five; co-auth, Parent-child relationship; & Curriculum guides for teachers of two to six year old children. Address: 26 Sun Rise Lane, Poughkeepsie, N.Y. 12603.

ANGEL, PROF. ARTHUR D(ESKO), b. Yakima, Wash, Apr. 24, 04; m. 33; c. 3. POLITICAL SCIENCE. M.A, Stanford, 31; Ph.D.(polit. sci), California, Los Angeles, 44. Instr. polit. sci. & econ, Pomona Jr. Col, 40-45; asst. prof. SOC. SCI, Drake, 45-46; MICH. STATE, 46-48, ASSOC. PROF, 48- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Municipal government; public administration. Publ: Co-auth, Readings in social science. Address: 1024 N. Harrison Rd, East Lansing, Mich. 48823.

ANGEL, PROF. GROVER L(AMARR), b. Mars Hill, N.C, July 2, 09; m. 37; c. 1. SOCIOLOGY OF EDUCATION. A.B, High Point Col, 29; North Carolina, 30; M.A, George Washington, 46, Ed.D, 52; Northwestern, 50. Teacher

& prin, schs, N.C, 29-42; from spec. invest. to personnel dir. & mgr, Dun & Bradstreet, Inc, Wash, D.C, 42-45; scientist, sci. personnel div, Off. Naval Res, 46-47; res. assoc, Am. Coun. Ed, Wash, D.C, 47-50; lectr. ed. sociol, GEORGE WASHINGTON, 50-56, assoc. prof. ED, 56-57, PROF, 57-, dir. off-campus div, col. gen. studies, 50-56, asst. dean, 56-57, dean, 57-65. Mem. bd. trustees, Nat. Cystic Fibrosis Res. Found, N.Y, 62-; Int. World Cong. Univ. Adult Ed, Denmark, 65. AAAS; Soc. Adv. Mgt; Soc. Personnel Admin; Nat. Ed. Asn; Ed. Res. Asn. Higher education; adult education; scientific personnel resources; educational administration. Address: School of Education, George Washington University, Washington, D.C. 20006.

ANGEL, HERBERT E(DMUND), b. Roanoke, Va, Apr. 12, 07; m. 36; c. 1. PUBLIC ADMINISTRATION. A.B, George Washington, 30, A.M, 32; Hopkins, 32-33; American Univ, 38-43. Ed. asst, U.S. Dept. State, 32-36; asst. to dir. pub, Nat. Arch, 36-41, acting dir. res. & pub, 41, acting chief div. info. & pub, 42, asst. to archivist, 41-43; dir. off. methods, U.S. Dept. Navy, 46-50; dir. records mgt. div, nat. arch. & records serv, GEN. SERV. ADMIN, 50-56, asst. archivist, off. records mgt, 56-59, dir. of admin, 59-62, ASST. ARCHIVIST for records mgt, 62-64, FOR FED. RECORDS CENTERS, 64- Lectr, American Univ, 38-42, 52, 60-61, dir. records mgt. inst, 56-59, adj. prof, 61-; vis. prof, Tehran, Iran, 54. U.S.N.R, 43-59, Comdr. Soc. Archivists (v.pres, 65-66, pres, 66-67); Nat. Microfilm Asn. Records and paperwork management. Address: National Archives & Records Service, General Services Administration, Washington, D.C. 20408.

ANGEL, DR. J(OHN) LAWRENCE, b. London, Eng, Mar. 21, 15; nat; m. 37; c. 3. ANTHROPOLOGY. A.B, Harvard, 36, Ph.D.(phys. anthrop), 42. Traveling fel, exped, Greece, 37-39; asst. anthrop, Harvard & Radcliffe Col, 39-41; instr, California, 41-42; Minnesota, 42-43; from assoc. to prof. phys. anthrop. & anat, Jefferson Med. Col, 43-62, Guggenheim fel, 49; CURATOR PHYS. ANTHROP, U.S. NAT. MUS, SMITHSONIAN INST, 62- Prof. lectr, George Washington, 64; Vis. prof, med. sch, Howard, 65; lectr, sch. pub. health, Hopkins, 65. Consult, U.S. Naval Hosp, Phila, 55-62. AAAS; Anthrop. Asn; Soc. Human Genetics; Asn. Anat; Asn. Phys. Anthrop.(secy-treas, 52-56; v.pres, 58-60); Archaeol. Inst. Am; Genetic Asn; Soc. Appl. Anthrop. Social biology of the Greeks; anthropology of chronic diseases; skeletal form relative to function. Publ: Troy, the human remains; Age change in obesity, Human Biol; Physical and psychological factors in culture growth, Int. Cong. Anthrop. & Ethnol. Sci, 56. Address: Division of Physical Anthropology, Smithsonian Office of Anthropology, Smithsonian Institution, Washington, D.C. 20560.

ANGELINE, PROF. ANTHONY L(OUIS) P(HILLIP), Econ, see 10th ed, Soc. & Behav. Vols.

ANGELINO, PROF. HENRY R(ICHARD), b. Carlstadt, N.J, Dec. 21, 10; m. 39; c. 2. PSYCHOLOGY. A.B, N.Y. Univ, 38; M.A, New Mexico, 43; Ph.D, Nebraska, 50. Asst. prof. ED, OKLAHOMA, 50-53, assoc. prof, 53-59, PROF, 59- U.S.A, 42-45. AAAS; Anthrop. Asn; Psychol. Asn; Ed. Res. Asn; Sociol. Asn. Developmental psychology; sociology in education; human learning. Publ: Shoplifting, a critical review, Midwest Sociol; co-auth, A note on berdache, Am. Anthrop; Factors influencing routine performance under noise, J. Psychol. Address: College of Education, University of Oklahoma, Norman, Okla. 73069.

ANGELL, DR. ANN G(RIFFITH), b. New York, N.Y, Dec. 25, 33; m. 65; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Connecticut, 55; Ph.D.(psychol), Rutgers, 62. Res. fel. learning psychol, E.R. Johnstone Training & Res. Center, 58-59, res. psychologist, 61-62; proj. dir. perceptual psychol, U.S. Army Personnel Res. Off, 63-65; asst. prof, gen. psychol, San Jose State Col, 65; RES. SCIENTIST BEHAV. & TESTING, AM. INSTS. RES. 65- Psychol. Asn. Learning, perception and memory; psychological test development especially as it applies to countries other than the United States. Publ: The effects of retention interval, exposure time and IQ on recognition in a mentally retarded group, Am. J. Ment. Deficiency, 60. Address: American Institutes for Research, 135 N. Bellefield Ave, Pittsburgh, Pa. 15213.

ANGELL, DR. DAVID, b. Emporia, Kans, Apr. 4, 24. EXPERIMENTAL PSYCHOLOGY. B.A, Wesleyan, 49; M.A, Connecticut, 51, Ph.D, 59. Instr. psychol, Connecticut, 51-55; res. scientist, HumRRO, George Washington, 55-59; RES. SCIENTIST, AM. INST. RES, 59- U.S.A.A.F, 43-46. AAAS; Psychol. Asn; Ed. Res. Asn. Human learning; psychological measurement and educational research. Address: American Institutes for Research, 135 N. Bellefield Ave, Pittsburgh, Pa. 15213.

ANGELL, PROF. ELIZABETH S(IMCOE), Psychol, see 10th ed, Soc. & Behav. Vols.

ANGELL, DR. GEORGE W(ILLIAM), JR, b. Boston, Mass, Apr. 1, 23; m. 49; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Tufts Col, 44, fel, 44-45; Ed.M, Boston, 52, fel, 52-53, Ed.D.(ed. measurement), 54. Res. chemist org. chem, A.D. Little Co, 45, teacher, high sch, Mass, 46-47, 50-52; Tokyo-Am. Sch, Japan, 48; investr. chem. & physics, U.S. Army, 48-49; test specialist sci. tests, Ed. Testing Serv, 53-56; consult. ed. measurement & res, Turkish Ministry of Ed, 56-58; ed. adv. Turkish Govt, Int. Coop. Admin, 58-63; RES. ASSOC. polit. sci, center int. studies, Mass. Inst. Tech, 63-67, ED. RES, ED. DEVELOP. CENTER, NEWTON, 67- Smith-Mundt vis. prof, Turkey, 56-58; lectr. Mass. Inst. Tech, 64-; assoc. prof, Boston, 64- Mem, Fulbright scholar. selection cmt, Turkey, 57-60, chmn, 61. Psychol. Asn; Nat. Coun. Measurement in Ed; Statist. Asn; Ed. Res. Asn; Sociol. Asn; Psychomet. Soc. Investigation of attitudes, values and mores of youth; curriculum evaluation. Publ: Philosophy of test construction in science, Sci. Teacher. Address: 101 Barton Dr, Sudbury, Mass. 01776.

ANGELL, PROF. JAMES W(ATERHOUSE), b. Chicago, Ill, May 20, 98. ECONOMICS. A.B, Harvard, 18, A.M, 21, Ph.D, 24; Chicago, 19-20. Lectr. ECON, COLUMBIA, 24-26, assoc. prof, 26-31, prof, 31-66, EMER. PROF, 66- V.chmn, Anthracite Coal Indust. Cmn, Pa, 37-38; asst. adminstr, For. Econ. Admin, 45; U.S. minister, Allied Cmn. Reparations, Germany, 45-46. Am. Econ. Asn.(v.pres, 40); Economet. Soc; Am. Acad. Arts & Sci; Royal Econ. Soc. Monetary economics; international trade; business cycles. Publ: Theory of international prices; Behavior of money; Investment and business cycles. Address: Dept. of Economics, Columbia University, New York, N.Y. 10027.

ANGELL, DR. MELVIN ALLEN, b. Seattle, Wash, Apr. 2, 20; m. 48; c. 2. COUNSELING PSYCHOLOGY, PSYCHOMETRICS. B.A, Washington (Seattle), 46, M.A, 48, fel, 49-50, Ed.D.(counseling, guid), 51. Asst, bur. admissions res, Washington (Seattle), 49-50; instr. hist. & Eng. & counsr, Green River Col, 50-51; asst. prof. ed. & asst. dir. res, West. Wash. Col. Ed, 51-52; training res. specialist, U.S. Bur. Naval Personnel, 52-54; dir. admissions, Occidental Col, 54-56; test officer, Fresno State Col, 56-61, curriculum evaluator, 59-61, assoc. dean students, 61-65; assoc. dean student affairs, off. chancellor, CALIF. STATE COLS, 65-67, STATE COORD, VIET NAM PROJ, 68- Vis. prof, Washington (Seattle), 60; summers, Cent. Wash. State Col, 58-61. Med.Serv.C. Res, 42-46, Maj. Psychol. Asn. Multivariate analysis; college curriculum and general education evaluation; sonar training evaluation; creative thinking and standardized test development research. Publ: High school English: can we justify it as a college admission requirement, Sch. Rev; Multiple differential prediction: its significance to college academic counseling, Personnel & Guid. J. Address: Office of the Chancellor, California State Colleges, 5670 Wilshire Blvd, Los Angeles, Calif. 90036.

ANGELL, PROF. ROBERT C(OOLEY), b. Detroit, Mich, Apr. 29, 99; m. 22; c. 2. SOCIOLOGY. A.B, Michigan, 21, A.M, 22, Ph.D.(sociol), 24; hon. L.H.D, Western Michigan, 67. Instr. SOCIOL, MICHIGAN, 22-26, asst. prof, 26-30, assoc. prof, 30-35, PROF, 35-, EXEC. DIR. SOCIOL. RESOURCES FOR SEC. SCHS, 66-, chmn. dept. sociol, 40-52, co-dir. center res. on conflict resolution, 62-65. Deiches lectr, Hopkins, 57. Act. dir. soc. sci. dept, UNESCO, Paris, 49-50. Ed, Sociol. Rev, 46-48. U.S.A.F, 18-19, 42-45, Lt. Col. Am. Sociol. Asn.(pres, 51); Int. Sociol. Asn.(pres, 53-56). Theory and investigation of social integration, especially the family, American cities, national American society and resolution of intersocietal conflict. Publ: Integration of American society; Moral integration of American Cities; Free society and moral crisis. Address: 1007 Berkshire Rd, Ann Arbor, Mich. 48104.

ANGELL, PROF. WAYNE D, b. Liberal, Kans, June 28, 30; m. 51; c. 4. ECONOMICS. A.B, Ottawa,(Kans), 52; M.A, Kansas, 53, Kans. Bankers' Asn. fel. & Ph.D.(econ), 57. Instr. ECON, Kansas, 54-56; asst. prof, OTTAWA (KANS), 56-58, assoc. prof, 58-60, PROF, 60-, CHMN. DIV. SOC. SCI, 60- State rep, Kans. Legis, 61-67. Governor's consult, Republican Kans. State Platform Cmt, 64. Chmn, Kans. 3rd Dist. Republican Convention, 64; indust. develop. cmt, Kans. House of Rep, 65-66; resolutions cmt, Am. Baptist Convention, 66-67. Econ. Asn. Public economic policy; economic fluctuations and growth; money and banking. Address: Dept. of Economics, Ottawa University, Ottawa, Kans. 66067.

ANGELO, DEAN HAROLD E(DWARD), b. Edwards, Miss, Aug. 30, 24; m. 53; c. 4. BUSINESS LAW. B.S, Miss. State Col, 47; LL.B, Michigan, 51, M.B.A, 54. Assoc. prof. bus. admin, Amos Tuck Grad. Sch. Bus. Admin, Dartmouth Col, 55-59; dean men, Colorado, 59-63; SR. V.PRES. & CASHIER, COLO. NAT. BANK OF DENVER, 63- U.S.M.C, 43-46, 51-52, Capt. Nat. Asn. Bus. Econ. Commercial banking; monetary policy; liquidity in the American economy. Address: 3400 E. Seventh Avenue Pkwy, Denver, Colo. 80206.

ANGER, DR. DOUGLAS, b. Derby, Conn, June 27, 23; m. 50; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Colgate, 43; fel, Harvard, 49-52, Ph.D.(exp. psychol), 55. Asst. prof. psychol, Vermont, 54-55; res. fel, Jackson Mem. Lab, 55-56; res. assoc. Upjohn Co, 56-67; ASSOC. PROF. PSYCHOL, WESTERN MICHIGAN, 67- U.S.A, 44-47. Psychol. Asn; Psychonomic Soc. Learning; motivation; comparative psychology; effects of drugs on behavior. Address: Dept. of Psychology, Western Michigan University, Kalamazoo, Mich. 49001.

ANGERS, PROF. FRANCOIS ALBERT, b. Quebec, Que, May 21, 09; m. 35; c. 5. ECONOMICS, POLITICAL SCIENCE. M.Com, Montreal, 34; dipl, Paris, 37. Ed, L'Actualité Economique, GRAD. SCH. COMMERCE, MONTREAL, 38-48, PROF. polit. econ, 47-59, MGT. ECON, 58-, DIR. INST. APPL. ECON, 58-, head documentation econ. serv, 48-58. Adv, Royal Cmn. Fiscal Rel, 53-56; Montreal Chamber Commerce, 55- Monetary, fiscal and managerial aspects of economic policy; economic, fiscal and constitutional aspects of federal-provincial relations in Canada. Publ: Le problème fiscal et les relations fédérals-provinciales, Queen's Printer, 56; Essai sur la centralisation, Beauchemin & H.E.C, 60; Initation á l'économie politique, Fides, 4th ed, 66. Address: 822 rue Victoria, Saint-Lambert, Montreal, Que, Can.

ANGLIN, PROF. ROBERT A(LTON), b. Evansville, Ind, Oct. 3, 10; m. 32. SOCIOLOGY. A.B, Evansville Col, 40; M.S, Indiana, 43, Ph.D, 48. Asst, Indiana, 47-48; PROF. SOCIOL, Agr, Mech. & Norm. Col, Ark, 48-50; W.VA. STATE COL, 50- Dir. res, President's Cmt. Juvenile Delinquency & Youth Crime, 61-62; voc. rehab, Dept. Health, Ed. & Welfare, 62-63. Consult, W.Va. Rehab. Cmn, 60; White House Conf. Child Welfare, 60; Governor's Conf. Aging, 61. Sociol. Asn; Acad. Polit. & Soc. Sci; Am. Acad. Arts & Sci; Acad. Polit. Sci. Social institutions; population; geriatrics. Address: Box 255, Institute, W.Va. 25112.

ANGMAN, PROF. BERNDT G(ERHARD) A(LFONS), b. Sweden, June 15, 21; nat. POLITICAL SCIENCE. B.S, Houston, 48, M.S, 49; Stockholm, 51-52; Ph.D, Texas, 54. Instr. polit. sci. & hist, Wharton County Jr. Col, 54-55; asst. prof. POLIT. SCI, NORTHWEST MO. STATE COL, 55-60, assoc. prof, 60-65, PROF, 65- U.S.A.A.F, 42-46. Polit. Sci. Asn; Am. Soc. Int. Law. European comparative governments; international law and relations. Publ: The rise and fall of Orthodox Marxist philosophy within the ideology of the Swedish social-democratic workers' party, 1920-1928; Intra-party ideological debates within the social-democratic workers' party of Sweden during the war period, 1940-1946 & Socialist theory or welfare-state reality: ideological conflicts within the social-democratic workers' party of Sweden, 1932-1940, Northwest Mo. State Col. Studies. Address: 325 N. Dunn St, Maryville, Mo. 64468.

ANGOFF, DR. WILLIAM H(ERBERT), b. Boston, Mass, Sept. 14, 19; m. 55. PSYCHOLOGY. A.B, Harvard, 40; M.S, Purdue, 47, Ph.D.(psychol), 48. Psychologist, spec. devices center, Off. Naval Res, 48-49; asst. dir. statist. anal. div, ED. TESTING SERV, 49-63, EXEC. ASSOC, 63- Consult, 46-U.S.A.A.F, 42-46. AAAS; Psychol. Asn; Psychomet. Soc; Ed. Res. Asn; Coun. Measurement in Ed. Psychological scaling; selection; experimental design in psychology. Publ: Measurement and scaling, In: Encyclop. Ed. Res, 60; Scales with nonmeaningful origins and units of measurements, Ed. & Psychol. Measurement, 62; Can useful general-purpose equivalency tables be prepared for different college admissions tests? Proc. Invitational Conf. Testing Probs, 63 & Testing Probs. Perspective, 66. Address: Educational Testing Service, Princeton, N.J. 08540.

ANGRILLI, PROF. ALBERT F, b. New York, N.Y, Dec. 4, 17; m. 45; c. 1. CLINICAL PSYCHOLOGY. B.S, N.Y. Univ, 49, M.A, 50, Ph.D.(clin. psychol), 58. Res. investr, rapid treatment center, Bellevue Hosp, New York, 46-49; clin. psychologist, State Dept. Ment. Hyg, 49-53; asst. prof. clin. psychol, QUEEN'S COL.(N.Y), 53-65, PROF. ED. & DIR. ED. CLIN, 65- Instr, sch. nursing, Roosevelt Hosp, 53-56. Consult, Windham Children's Serv, 55-64; Youth Consult. Serv, 56-64. U.S.A.A.F, 42-45, Sgt. Psychol. Asn; Orthopsychiat. Asn. Educational and school psychology; teacher training. Publ: Psychosexual identification of preschool boys, J. Genetic Psychol; Value of 'one night stands' in community education, J. Adult Leadership; Voluntary discussion group in teacher education, J. Teacher Ed. Address: 167-01 81st Ave, Jamaica, N.Y. 11432.

ANGRIST, DR. SHIRLEY S, b. Montreal, Que, Dec. 15, 33; U.S. citizen; m. 55; c. 2. SOCIOLOGY. B.A, McGill, 54, M.A, 55; Nat. Inst. Ment. Health fel, Ohio State, 58-60, Ph.D.(sociol), 60. Instr. psychiat, Ohio State, 61-62; sociol, Pa. State, McKeesport Campus, 62; asst. prof. psychiat. nursing, Pittsburgh, 62-64; from asst. prof. to ASSOC. PROF. SOCIOL, CARNEGIE-MELLON UNIV, 64- Fel. Sociol. Asn; Nat. Coun. Family Rels. Social psychiatry; sex role conceptions. Publ: Co-auth, Women after treatment, Appleton, 68. Address: 152 Maple Heights Rd, Pittsburgh, Pa. 15232.

ANGUIZOLA, DR. G.A, Latin Am, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ANGUS, DR. EDWARD L(UVERNE), b. Fredericksburg, Va, Feb. 12, 39. POLITICAL SCIENCE. B.A, Kentucky, 61; M.A, Pa. State, 63, Nat. Defense Ed. Act fel, 61-64, Nat. Center Ed. in Polit. fel, 64-65, Ph.D.(polit. sci), 68. Dep. state coordinator, Tenn. Off. Econ. Opportunity, 65, res. asst, inst. pub. admin, Pa. State, 65-66; ASST. PROF. POLIT. SCI, MEMPHIS STATE, 66- Consult, Fayette County Community Action Agency, Pa, 66; resource develop. intern prog, South. Regional Ed. Bd, 67- Polit. Sci. Asn. Development of southern United States resources and economic opportunity; urban governmental problems, planning and administration; urban political behavior, particularly in referenda questions; Tennessee politics. Publ: Co-auth, The urban polity: politics and problems, Scribner, (in pres). Address: Dept. of Political Science, Memphis State University, Memphis, Tenn. 38111.

ANGUS, DR. ROBERT CHAUNCEY, b. Tarrytown, N.Y, Nov. 15, 28; m. 54; c. 2. AGRICULTURAL ECONOMICS. B.S, Cornell, 50; M.S, Pa. State, 54, Ph.D.(agr. econ), 60; Mich. State, 57; N.C. State, 66-67. Asst. farm store mgr, Sears Roebuck & Co, Pa, 50-52; asst. AGR. ECON, Pa. State, 52-54; ASST. PROF, ARIZONA, 59- U.S.A.F, 54-57, 1st Lt. Farm Econ. Asn. Milk marketing and marketing efficiency; marketing hay and grain and milk marketing in Arizona. Publ: Appraisal of research literature dealing with loose and conventional dairy housing, J. Dairy Sci; Loose housing for dairy cattle, Pa. Agr. Exten. Spec. Circular; Changes of productivity in milk distribution in two Pennsylvania markets, Pa. State Exp. Sta. Progress Report. Address: Dept. of Agricultural Economics, University of Arizona, Tucson, Ariz. 85721.

ANIKEEFF, DR. ALEXIS M(ICHAEL), b. Odessa, Russia, Aug. 25, 17; m. 42; c. 3. PSYCHOLOGY. A.B, Michigan, 40, A.M, 47; dipl, N.Y. Univ, 44; Ph.D.(indust. psychol), Purdue, 49. Prod. line worker, Ford Motor Co, Mich, 37-39; salesman, regional sales promotion, Nestle Chocolate Co, 40-41; ord. inspector, F.L. Jacobs Co, 41-42; inspector, De Soto Div, Chrysler Corp, 42; Am. Metal Prod. Corp, 42-43; res. assoc, lab. anal. animal learning behav, Michigan, 46-48; res. analyst & assoc. ed, opinion poll prog, Purdue, 48-49; assoc. prof. indust. psychol. & personnel mgt, sch. bus. admin, Miss. State, 49-53; indust. psychol, Okla. State, 53-56; head eng. psychol. group, N.Am. Aviation, Inc, 56-57; head airborne systs. sect. & res. specialist, Polaris Weapon Syst, Lockheed Missiles & Space Co, 57-60; mgr. human factors group, aerospace systs. opers, Proj. Apollo, Gen. Elec. Co, 60-63; head multi-disciplines group & staff scientist, Gen. Dynamics Corp, San Diego, Calif, 63-66; prin. behav. scientist, Irus Proj, Litton Industs, Monterey Peninsula, Calif, 66-67; PROF. PSYCHOL, AKRON, 67- Pres. & dir. res, Anikeeff & Assocs, 49- Consult, human rel. res. div, U.S. Dept. Air Force, 53, satellite test center, 61-62; U.S. Army Bd. Aviation Accident Res, 60-; space flight group, Naval Training Devices Center, 60; Opers. Res, Inc, 60. Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. U.S.A.A.F, 43-45. Fel. Psychol. Asn. Human relations; effectiveness of personnel methods, procedures and techniques; human factors research; evaluation of management. Publ: Study of attitudinal divergence between business administrators and salaried employees, J. Personnel Admin. & Indust. Rels; Functions of the human factors group operating under the new weapon system concept; Characteristics of Polaris crewman, Human Factors Design Bull. Address: Dept. of Psychology, 273 Simmons Hall, University of Akron, Akron, Ohio 44304.

ANISFELD, DR. MOSHE, b. Krakow, Poland, May 3, 34; m. 63; c. 1. PSYCHOLOGY, PSYCHOLINGUISTICS. B.A, Bar-Ilan Univ. Isreal, 59; M.A, McGill, 60, Ph.D.(psychol), 63. Res. assoc. PSYCHOL, Harvard, 62-64; vis. asst. prof, McGill, 64-65; ASST. PROF. CORNELL, 65- Res. grants, Harvard Milton Fund, 63-64, Cornell Res. Grants Cmt, 67-68; contract, U.S. Off. Ed, 66-68. Am. Psychol. Asn; Ling. Soc. Am; Can. Psychol. Asn. Linguistic and cognitive behavior and development. Publ: Psycholinguistic perspective on language learning, McGraw, 66; co-auth, Social and psychological variables in learning Hebrew, J. Abnorm. Soc. Psychol. 61; and When are pleasant words learned faster than unpleasant words? J. Verb Learning Behav, 66. Address: Dept. of Psychology, Cornell University, Ithaca, N.Y. 14850.

ANKER, PROF. JAMES MARTIN, b. Marshfield, Wis, Mar. 28, 30; m. 51; c. 5. CLINICAL PSYCHOLOGY. A.B, Catholic Univ, 52, M.A, 53, Ph.D.(psychol), 57. Trainee & intern psychol, Vet. Admin. Training Prog, 52-56; private clin. psychologist, Baltimore, Md, 56-57; clin. psychologist, Vet. Admin. Hosp, Perry Point, Md, 57-58, coordinator res, 58-63, exec. dir. med. audit plan for psychiat. hosps, 63-64; assoc. prof. psychol, TENNESSEE, 64-66, PROF. PSYCHOL. & DIR. CLIN. TRAINING, 66- Lectr, Loyola Col, 57-58; Delaware, 58-64; prof, child develop. center, Univ. Tennessee, Memphis, 68- Consult, Catholic Univ, 60-64. Chmn, Vet. Admin. Area Adv. Coun, 66-67; summers, dir, Proj. Cause, Univ. Tennessee, 65, asst. dir, Proj. Upward Bound, Knoxville Col, 66. Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc. Experimental psychopathology; group and individual psychodiagnosis and psychotherapy; statistics and experimental design; language and communication; learning and personality theory. Publ: Behavior modification in chronic schizophrenics, Pergamon, 64; Chronicity of neuropsychiatric hospitalization: a predictive scale, J. Consult. Psychol; Toward the therapeutic modification of schizophrenic behavior, Brit. J. Soc. Psychiat, 68. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37916.

ANKRUM, PROF. WARD ELWOOD, b. Danville, Ill, Mar. 2, 10. EDUCATIONAL PSYCHOLOGY. B.S, Illinois, 34, M.S, 41; Ed.D, Missouri, 51. Ed. specialist, div. instr. training, U.S. Army Air Force, Colo, 42-44; chmn. dept. Eng, Coronado High Sch, Calif, 44-45; instr. Eng. & audiovisual aids, Stephens Col, 45-52, dir. audiovisual library, 52-57; ASSOC. PROF. ED. & PSYCHOL. & DIR. AUDIOVISUAL ED, HENDERSON STATE COL, 57- Instr, Denver, 43-44; Ford Found. lectr, Ark. Agr. & Mech. Col, 53. History and philosophy of education; utilization of moving pictures, slides, filmstrips and non-projected visual materials as motivational devices in basic learning; influence of selected television programs on pre-service teachers; basic factors involved in reading rate acceleration. Publ: Implementation of educational philosophy and a program of educational research in the curricular growth of Stephens College; co-auth, Utilization of audiovisual materials in Missouri. Address: 309 Riverside Dr, Arkadelphia, Ark. 71923.

ANLIKER, DR. J(AMES) E(DWARD), Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

ANNAKIN, PROF. V. DEWEY, b. Akron, Ohio, June 26, 98; m. 25; c. 3. SOCIOLOGY. A.B, DePauw, 22; M.A, Wisconsin, 23; Ph.D.(sociol), Ohio State, 39. Prof. sociol, INDIANA STATE, 26-66, dean men, 40-47, EMER. PROF. SOCIOL, 66-; VIS. PROF. SOCIOL. & ACTING CHMN. DEPT. ANTHROP. & SOCIOL, EASTERN KENTUCKY, 66- Vis. prof, Kent State, 55-56. Joint senator, Sullivan & Vigo Counties, Ind. Gen. Assembly. Soc. Appl. Anthrop; Sociol. Asn. History of social thought; industrial sociology; sociological theory. Address: Dept. of Sociology, Eastern Kentucky University, Richmond, Ky. 40475.

ANON, PROF. NORMAN S(AUL), b. Columbus, Ohio, Dec. 16, 25; m. 51; c. 2. ECONOMICS. A.B, Miami (Ohio), 48; M.S, Wisconsin, 50, Ph.D.(econ), 54. Admin. asst, dept. econ. & statist, Int. Bus. Mach. Corp, 54-59, staff economist, dept. pub. affairs, 60-64; assoc. prof. sch. indust. mgt, Ga. Inst. Tech, 64-66; PROF. ECON. & CHMN. DEPT, WRIGHT STATE, 66- Consult, Off. Econ. Opportunity, 65-66; univ. consult, bur. employment security, U.S. Dept. Labor. Chmn. Atlanta Cmn. Automation, Employment & Ed, 65. U.S.A, 43-46. Econ. Asn; Statist. Asn; Indust. Rel. Res. Asn; Acad. Polit. & Soc. Sci. Productivity and technological developments such as automation; labor economics; pricing of the firm. Address: 59 W. Floyd Ave, Dayton, Ohio 45415.

ANROD, DR. CHARLES W(ILLIAM), b. Neuwied, Germany, Feb. 13, 96; nat; m; c. 2. INDUSTRIAL RELATIONS. Munich, 14-18; Bonn, 18-20; Dr. jur. utr, Heidelberg, 20; Yale, 40-41; A.M, Northwestern, 43. Pres. labor court & v.pres. labor court appeals, Frankfort, Germany, 27-33; instr, civil affairs training sch, Northwestern, 43-44; labor econ. & legis, Loyola,(Ill), 44-48, assoc. prof. econ, 48-51, prof, 51-66; ARBITRATOR, 48- Pension consult. Econ. Asn; Acad. Polit. & Soc. Sci; Indust. Rels. Res. Asn; Int. Indust. Rels. Asn. Labor legislation; adjustment of labor disputes. Publ: Co-auth, Unions, management and the public; Reflections on union leadership; Compulsory retirement. Address: 1800 Crain St, Evanston, Ill. 60202.

ANSBACHER, PROF. HEINZ L(UDWIG), b. Frankfurt, Germany, Oct. 21, 04; nat; m. 34; c. 4. PSYCHOLOGY. Ph.D.(psychol), Columbia, 37. Psychologist, psychol. index proj, Works Progress Admin, N.Y, 38-39; instr. psychol, Yeshiva, 39-40; asst. ed. psychol. abstracts, Brown, 40-43; field rep. surv. officer, Off. War Info. & Supreme Hq. Allied Exped. Forces, London, Eng, 43-45; instr. psychol, Brooklyn Col, 45-46; vis. asst. prof. PSYCHOL, Duke, 46; from assoc. prof. to PROF, VERMONT, 46- Lectr, U.S. Dept. State grant, Mainz, 50; Fulbright lectr, Kiel, 54-55; U.S. Pub. Health Serv. res. grant, 67-68. Ed, J. Individual Psychol, 57- Field serv. consult, navy bur. personnel, Off. Sci. Res. & Develop, 45-46. Fel. Psychol. Asn. Adlerian individual psychology; social psychology; psychological testing. Publ: Co-ed, The individual psychology of Alfred Adler, Basic Books, 56 & Superiority and social interest, Northwestern Univ, 64; auth, Life style: a historical and systematic review, J. Individual Psychol, 11/67. Address: Dept. of Psychology, University of Vermont, Burlington, Vt. 05401.

ANSBERRY, DR. WILLIAM F, b. Logansport, Ind, July 18, 26; m. 54; c. 4. POLITICAL SCIENCE. B.S, Ball State, 51, M.A, 55; Ph.D.(polit. sci), Cincinnati, 68. Teacher, high sch, Ind, 51-57, Ohio, 57-67; ASSOC. PROF. POLIT. SCI, SOUTHEAST MO. STATE COL, 67- Lectr, eve. col, Cincinnati, 64-67. U.S.A, 44-46. Polit. Sci. Asn. Arms control and disarmament, a study of problems in a world of nation-states. Address: Dept. of Political Science, Southeast Missouri State College, Cape Girardeau, Mo. 63701.

ANSCHEL, DR. KURT R(AMON) b. Cadiz, Spain, May 22, 36; U.S. citizen; m. 58; c. 2. AGRICULTURAL ECONOMICS. A.B, Oberlin Col, 58; B.S, Mich. State, 59, M.S, 61, fel, 63-64, Ph.D.(agr. econ), 65. Asst. instr. AGR.

ECON, Mich. State, 64-65; ASST. PROF, KENTUCKY, 65- Agr. Develop. Coun. res. grant, 67-; summers, Am. Coun. of Int. Asn. Agr. Econ. travel grant, 67, Agr. Develop. Coun. travel grant, 67. Soc. Int. Develop; Econ. Asn; Farm Econ. Asn; Int. Asn. Agr. Econ. Income elasticity of market services; peasant rubber production in Nigeria; migration and return migration in Appalachian Kentucky; economics of education. Publ: Income elasticity for market services in cereal products, J. Farm Econ, 5/63; co-auth, Disguised unemployment in agriculture: a survey, In: Agriculture in economic development, McGraw, 64; auth, Problem prospects in Nigerian rubber industry, Nigerian J. Econ. & Soc. Studies, 7/67. Address: Dept. of Agricultural Economics, University of Kentucky, Lexington, Ky. 40506.

ANSCOMBE, PROF. F(RANCIS) J(OHN), Statist, see 11th ed, Phys. & Biol. Vols.

ANSFIELD, DR. PAUL J, b. Milwaukee, Wis, Nov. 4, 35; m. 57; c. 2. PSYCHOLOGY. B.S, Wisconsin, 57; M.A, Marquette, 61; Ph.D.(exp. psychol), Purdue, 64. Instr. PSYCHOL, WIS. STATE, OSHKOSH, 64-65, ASST. PROF, 65-, DIR. COMPUT. CENTER, 65-, dir. statist. lab, 65-67. Res. consult, Winnebago State Hosp, Wis, 65-; ed. consult, Mercy Hosp, Oshkosh, Wis, 67. Psychol. Asn; Human Factors Soc. Address: Dept. of Psychology, Wisconsin State University, Oshkosh, Wis. 54902.

ANSHEN, PROF. MELVIN (LEON), b. Boston, Mass, July 2, 12; m. 36. BUSINESS ADMINISTRATION. A.B, Harvard, 33; M.B.A, 35, D.C.S, 40. PROF. mkt, Indiana, 37-51; INDUST. ADMIN, grad. sch. indust. admin, Carnegie Inst. Tech, 52-62; GRAD. SCH. BUS, COLUMBIA, 62- Vis. lectr, Harvard, 47; vis. prof, Stanford, 50; dep. adminstr, Defense Prod. Admin, 51. Consult, U.S. Bur. Census, 47, Nat. Security Resources Bd, 49-50; Off. Defense Mobilization, 55-57; Off. Emergency Planning, 58- Econ. Asn; Mkt. Asn. (ed, J. Mkt, 55-57); Inst. Mgt. Sci. Executive development; management organization and decision making. Publ: Co-auth, Wartime production controls, Private enterprise and public policy & Management and corporations 1985, McGraw, 60. Address: Graduate School of Business, Columbia University, New York, N.Y. 10027.

ANSOFF, DR. H(ARRY) IGOR, Math, see 11th ed, Phys. & Biol. Vols.

ANSON, PROF. CHARLES P, b. Chicago, Ill, July 1, 02; m. 30; c. 1. INDUSTRIAL RELATIONS. B.A, Wisconsin, 24; M.A, Ohio State, 30; Ph.D.(econ), North Carolina, 40. Asst. prof. econ, Potomac State Sch, 30-35; prof, Roanoke Col, 38-41; dist. price exec, Off. Price Admin, 41-46; PROF. econ. & bus. admin, AUBURN, 46-67, INDUST. RELS. & LABOR ECON, 67- Lectr, North Carolina, 46. Econ. Asn. Southern labor force. Publ: United mine workers of West Virginia; Social sciences and general education. Address: 354 Chewacla Dr, Auburn, Ala. 36830.

ANSON, LT. COL. RICHARD WILLIAM, U.S.A, b. Newburyport, Mass, Feb. 18, 27; m. 58; c. 2. OPERATIONS RESEARCH, BUSINESS ADMINISTRATION. B.S, California, Berkeley, 52; Ohio State, 60-62; M.M.A. & S, U.S. Army Command & Gen. Staff Col, 66; M.S.B.A, George Washington, 68. U.S. ARMY, 52-, chief opers. res. div, Combat Develop. Command, 62-65, OPERS. ANALYST, Hq. Mil. Assistance Command, Vietnam, 66-67, OFF. CHIEF STAFF, 67- Lectr, U.S. Army Mgt. Sch, 62-65. Consult, U.S. Army Opers. Res. Tech. Assistance Group, 62-65. Systems analysis; revolutionary development, pacification and organizational effectiveness. Publ: The role of operations research in military decision-making, U.S. Army Command & Gen. Staff Col, 66. Address: Office of the Chief of Staff, Army, Washington, D.C. 20301.

ANSTEY, DR. ROBERT L, b. Creston, Iowa, July 15, 21; m. c. 2. GEOGRAPHY, CLIMATOLOGY. A.B, Nebraska, 47, M.A, 48; Ph.D, Maryland, 57. GEOGR, U.S. Bur. Census, D.C, 48-49; Off. Qm. Gen, 49-52; U.S. ARMY NATICK LABS, 54- Vis. lectr, Clark, 57-58; Mass. State Col. Framingham, 57-68. Consult, Sylvania Elec. Prod, Inc, 60-61. U.S.A.A.F, 41-46; U.S.A, 52-54, Maj. Asn. Am. Geog; Coun. Geog. Ed. Applications of critical data in climatology and military geography to problems of item design, test, issue and storage. Address: U.S. Army Natick Labs, Natick, Mass. 01760.

ANTELMAN, DR. GORDON R(ANDOLPH), b. Aberdeen, S.Dak, Oct. 3, 30; m. 58; c. 3. STATISTICS. B.S, Minnesota, 52, M.A, 58, Ph.D.(statist), 63. Instr. indust. eng, Minnesota, 57-60; res. assoc. STATIST, grad. sch. bus, Harvard, 60-61; instr, GRAD. SCH. BUS, CHICAGO, 61-63, asst. prof, 63-66, ASSOC. PROF, 66- U.S.A, 52-54. Statist. Asn; Inst. Math. Statist. Bayesian inference and decision theory. Address: Dept. of Statistics, Graduate School of Business, University of Chicago, Chicago, Ill. 60637.

ANTHONY, PROF. A(RTHUR) BRUCE, b. Oakland, Calif, May 22, 92. ECONOMICS. A.B, Stanford, 19, A.M, 21, fel, 25-26, Ph.D, 27; summers, Chicago, 22-23, 24-25; Cornell, 22-23; Pittsburgh, 23-24. Instr. ECON, Butler, 21-22; Cornell, 22-23; Pittsburgh, 23-25; from instr. to asst. prof, St. Louis, 26-28; asst. prof, Southern California, 28-30, assoc. prof, 30-39; acting asst. prof, Whitman Col, 42-44; asst. prof, Park Col, 44-46; prof, MERCER, 46-58, EMER. PROF, 58- Econ. Asn. Influence of the machine tool on income and social development; economic and social problems of the machine age; the economic origin and development of the modern corporation. Address: 1593 Coleman Ave, Macon, Ga. 31201.

ANTHONY, PROF. CLOYD, b. Brown Co, Ind, Sept. 11, 01. SOCIAL SCIENCE. A.B, Indiana State, 25; A.M, Indiana, 29, Ph.D, 35; Missouri, 40-43. Teacher, pub. schs, Ind, 20-36; assoc. prof. soc. sci. & prin. lab. sch, Cent. Mo. State Col, 36-44; asst. prof. soc. sci, Mich. State, 45; dir. div. teaching & prin. lab. schs, INDIANA STATE, 45-46, PROF. SOCIOL, 46-, chmn. div. soc. sci, 55-67. Sociol. Asn; Acad. Polit. & Soc. Sci. Predicting scholastic success at the college level. Address: Division of Social Sciences, Indiana State University, Terre Haute, Ind. 47809.

ANTHONY, PROF. DONALD (ELLIOT), b. Oakland, Calif, Nov. 30, 99. ECONOMICS. A.B, Stanford, 22, Ph.D, 28; A.M, Cornell, 23. Instr, Nevada, 26-28; asst. prof, Lehigh, 28-29; from asst. prof. to prof. econ. & head dept, Akron, 29-36; PROF. ECON, KENT STATE, 36-, ASST. DEAN COL. BUS. ADMIN, 65-, head dept. 36-65. Econ. Asn; Indust. Rel. Res. Asn. Labor relations in the rubber industry; Filipino labor in central California; poverty and delinquency. Address: 118 Wilson Ave, Kent, Ohio 44240.

ANTHONY, PROF. JAMES K, Geog, see 10th ed, Soc. & Behav. Vols, deceased 64.

ANTHONY, DR. ROBERT NEWTON, b. Orange, Mass, Sept. 6, 16; m. 43; c. 2. ACCOUNTING, BUSINESS ADMINISTRATION. A.B, Colby Col, 38, hon. M.A, 59, hon. L.H.D, 63; M.B.A, Harvard, 40, D.C.S, 52. Asst. bus. admin, bus. sch, Harvard, 40-41, instr, 41-42, asst. prof, 46-50, assoc. prof, 51-55, prof, 56-65; ASST. SECY. DEFENSE, U.S. DEPT. DEFENSE, 65- Leatherbee lectr, bus. sch, Harvard, 67. With Armed Servs. Med. Procurement Agency, 52; pres, Mgt. Anal. Center, Inc, 55-65; mem. Mgt. Develop. Inst, Switz, 57-58; summer, mem. exec. develop. prog, Kansas, 56. Mem. Prinl. Coun. Fed. Financial Admin, 52-58; U.S. Adv. Coun. Fed. Reports, 54; cmt. bus. data processing. Asst. Secy. Defense, 54-56; subcmt. govt. opers, U.S. Senate, 56. Am. Acct. Asn.(v.pres, 58-59); Nat. Asn. Acct; Inst. Mgt. Sci; Financial Exec. Inst; Soc. Publ. Admin. U.S.N.R, 42-46, Lt. Comdr. Publ: Management accounting; text and cases; Planning and control systems: a framework for analysis, Harvard Bus. Sch, 65; co-auth, Management control systems, Irwin, 66. Address: U.S. Dept. of Defense, Pentagon, Washington, D.C. 20301.

ANTLER, DR. LAWRENCE, b. Brooklyn, N.Y, Mar. 9, 31; m. 60; c. 2. SOCIAL PSYCHOLOGY. B.A, Hofstra, 52; M.A, Columbia, 60, Ph.D.(soc. psychol), 64. RES. ASSOC. SOC. PSYCHOL, INST. INT. ED, 64- Psychol. Asn; Cong. Rehab. Med. Cross-cultural research in medical education; attitude measurement; psychological aspects of rehabilitation medicine. Publ: Patient and staff predictions for a patients' council, Int. Ment. Health Newsletter, spring 65; co-auth, National consciousness among foreign physicians in the U.S: correlates in attitude, adjustment, personality and demographic variables, 4/67 & Practical validity of the Gordon personal profile among U.S. and foreign medical residents, 8/67, J. Soc. Psychol. Address: 309 Lafayette Ave, Apt. 8M, Brooklyn, N.Y. 11238.

ANTOINETTI, DR. JOHN A(NTHONY), b. Hartford, Conn, June 18, 23; m. 51; c. 4. INDUSTRIAL PSYCHOLOGY, STATISTICS. B.A, Wesleyan, 48; M.A, Yale, 50, Ph.D, 55. Asst. ins. training, LIFE INS. AGENCY MGT. ASN, 52-55, assoc. prog. dir. accident & health ins. res, 56, prog. dir, health & multiple line ins, 57-63, RES. ADV, 64- Sig.C, 41-45, 1st Lt. Psychol. Asn. Research design; learning theory; criterion development; training evaluation; selection test development. Publ: Product knowledge and performance: a study of life insurance agents & Effect of home office contact on sales performance, Personnel Psychol; co-auth, An industry wide study of programmed instruction, J. Appl. Psychol, 2/65. Address: 123 Crest St, Wethersfield, Conn. 06109.

ANTON, PROF. F(RANK) R(OBERT), b. Co. Leix, Ireland, July 22, 20. ECONOMICS, INDUSTRIAL RELATIONS. B.Sc, London Sch. Econ, 50; M.A, California, Los Angeles, 56; Can. Coun. fel, London, 60, Ph.D.(econ), 62. Economist, Export Credits Ins. Corp, Ont, Can, 50-51; asst. prof. ECON, New Brunswick, 51-53; assoc, California, Los Angeles, 53-56; asst. prof, CALGARY, 56-62, assoc. prof, 62-67, PROF. & HEAD DEPT, 67- Chmn. Arbit. Bd, Govt. Alta, 60- Can. Coun. res. award, 67. R.A.F, 40-46; R.C.A.F.R, 51-, Squadron Leader. Am. Econ. Asn; Can. Econ. Asn; Inst. Pub. Admin, Can. Role of government in the settlement of industrial disputes, especially conciliation, arbitration and supervised strike voting. Publ: Government supervised strike voting; co-auth, Economics in a Canadian setting, Copp-Clark, Toronto, 65; auth, An incomes policy for Canada? Can. Pub. Admin, 12/66. Address: Dept. of Economics, University of Calgary, Calgary, Alta, Can.

ANTON, DR. HECTOR R(OQUE), b. El Paso, Tex, Mar. 14, 19; m. 49; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. B.S, California, Los Angeles, 42, M.B.A, 47; Ph.D.(econ), Minnesota, 53. Instr. acct, Minnesota, 47-50; asst. prof. acct, finance & statist, Washington (Seattle), 50-54; from asst. prof. to assoc. prof. acct, CALIFORNIA, BERKELEY, 54-64, PROF. BUS. ADMIN, 64- Vis. prof, Minnesota, 58-59; sr. Fulbright lectr, Econ. Schs, Helsinki, Finland, 61-62; vis. prof, Washington (Seattle), 65; Marcus Wallenberg Found. grant, Stockholm, Sweden, 65; vis. prof, Victoria, N.Z, 66; Ford Found. vis. prof, Chicago, 68-69. Ed. consult, Haskin's & Sells, Cert. Pub. Accts. U.S.N.R, 42-46. Mem, Faculty Cmt. Center Res. in Mgt. Sci, 59-AAAS; Econ. Asn; Acct. Asn; Inst. Mgt. Sci. Accounting theory; flow of funds analysis; relationships between economics and accounting; business games; computer applications; management sciences; applicability of information sciences to accounting especially in simulation studies. Publ: Accounting for the flow of funds, 62 & co-auth, Contemporary issues in cost accounting, 66, Houghton; Fortran and business data processing, McGraw, 68. Address: School of Business Administration, University of California, Berkeley, Calif. 94720.

ANTON, DR. JOHN RALPH, Geog, Urban Planning, see 10th ed, Soc. & Behav. Vols.

ANTONIDES, PROF. ROBERT JAMES, b. LaGrange, Ind, Aug. 14, 20; m. 43; c. 5. ECONOMICS, BUSINESS MANAGEMENT. B.S, S.Dak. State, 47, M.S, 53; Minnesota, 53-56. Asst. prof. ECON, S.DAK. STATE, 53-58, ASSOC. PROF, 58-, EXTEN. ECONOMIST, BUS. MGT. & POLICY, 65- U.S.A.R, 41-43, U.S.A, 43-46, Sgt. Agr. Econ. Asn; Nat. Coun. Small Bus. Mgt. Develop; Econ. Asn. Small business management and broader aspects of economic and social development. Publ: Trends in agricultural production in South Dakota, 53, co-auth, Building good communities for the future, 65 & auth, Guidelines for organizing economic development efforts along trade area lines, 66, S.Dak. State Univ. Address: Dept. of Economics, South Dakota State University, Brookings, S.Dak. 57006.

ANTONITIS, PROF. JOSEPH J(OHN), b. New Britain, Conn, Jan. 13, 20; m. 48; c. 1. PSYCHOLOGY. A.B, Indiana, 46; A.M, Columbia, 47, Ph.D. (psychol), 50. Lectr. PSYCHOL, Columbia, 48-50; instr, MAINE, 50-51, asst. prof, 51-54, assoc. prof, 54-57, PROF, 57- Carnegie summer res.

fels, Jackson Mem. Lab, 51 & 52. U.S.A, 41-44. Psychol. Asn. Operant behavior of animals and children. Publ: Group operant behavior: an extension of individual research methodology, J. Genetic Psychol; Test of the hypothesis of an unconditioned operant reserve, J. Comp. & Physiol. Psychol; co-auth, Genetics and behavior. Address: Dept. of Psychology, University of Maine, Orono, Maine 04473.

ANTONOVSKY, DR. A(ARON) G, b. Brooklyn, N.Y, Dec. 19, 23; m. 58; c. 1. SOCIOLOGY. Fel, Yale, 51-52, Ph.D.(sociol), 55. Lectr, Brooklyn Col, 55-59; SR. RES. ASSOC, ISRAEL INST. APPL. SOC. RES, 59-; TEACHING ASSOC. SOC. MED, MED. SCH, HEBREW UNIV, ISRAEL, 62-, lectr. sociol, 60-62. Fulbright lectr, Tehran, Iran, 59-60; sr. res. fel, sch. pub. health, Harvard, 65-66. U.S.A, 43-45. Sociol. Asn. Medical sociology; acculturation; stratification. Publ: Discrimination and low incomes, N.Y. State Cmn. Against Discrimination, 59; Early Jewish labor movement in the U.S, Yivo Inst. Jewish Res, 61; Social class, life expectancy, and overall mo. tality, Milbank Mem. Fund Quart, 4/67. Address: Israel Institute of Applied Social Research, P.O. Box 7150, Jerusalem, Israel.

ANTROBUS, PROF. JOHN, b. Alta, Aug. 7, 32; U.S. citizen; m; c. 2. PSYCHOLOGY. B.A, British Columbia, 54; M.A, Columbia, 58; Ph.D.(psychol), 63. Lectr. PSYCHOL, CITY COL. NEW YORK, 62-67, res. assoc, 63-67, ASSOC. PROF, 67-, MEM, CENTER RES. COGNITION & AFFECT, CITY UNIV. NEW YORK, 66- Co-prin. investr, U.S. Pub. Health Serv. res. grants, 63- AAAS; Psychol. Asn; Asn. Psychophysiol. Study Sleep. Cognition; sleep; psychophysiology; statistics. Publ: Co-auth, Visual signal detection as a function of sequential variability of simultaneous speech, J. Exp. Psychol, 64 & Studies in the stream of consciousness; experimental suppression of spontaneous cognitive processes, Perceptual & Motor Skills, 66; auth, Information theory and stimulus independent thought, Brit. J. Psychol, 68. Address: 175 Riverside Dr, New York, N.Y. 10024.

ANTROBUS, PROF. LOUIS ARTHUR, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

ANYON, DR. G(EORGE) JAY, b. New York, N.Y, Nov. 10, 09; m. 38; c. 2. BUSINESS ADMINISTRATION. B.S, City Col. New York, 31; M.B.A, Pennsylvania, 46, Ph.D, 52. Organizer rehab. prog. for unemployed, Henry St. Settlement House, New York, 33-35; co-partner, Roto-process Photo-offset Printing Co, N.Y. & N.J, 36-42; instr, WHARTON SCH, PENNSYLVANIA, 46-53, asst. prof, 53-58, ASSOC. PROF. INDUST, 58-, assoc. dir. Wharton refresher conf. work measurement & work simplification, 49-58; designer & dir. mgt. anal. serv, univ, 56-58. Programmer & field lectr, exten. prog, Pa. State, 46-53. Arbitrator, 48-; indust. consult, Mex. Indust. Productivity Centers, Mexico City & Monterrey, 59-; consult, Indust. Counseling Serv, 48- Participant, prfnl. develop. cmn, Purchasing Asn. Phila, 50- A.U.S, 42-45. Acad. Mgt. Organization theory and practice; executive development programs in industry. Publ: Managing an integrated purchasing process, Holt, 63; Collective agreements on time and motion study, Soc. Adv. Mgt; The arbitrator's point of view, J. Indust. Eng, Vol. 13, No. 1. Address: D-W185 Dietrich Hall, Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

APEL, PROF. HANS, b. Konitz, Germany, Aug. 23, 95; nat; m. 21; c. 1. ECONOMICS. Ph.D.(econ), Boston, 45. From instr. to asst. prof. ECON, Boston, 45-47; assoc. prof, Middlebury Col, 48-49; prof. & chmn. dept, BRIDGEPORT, 50-61, EMER. PROF, 61- Lectr, Harvard & Boston, 46. Econ. Asn. Economic theory; business cycles. Publ: Spaltung & DDR 1962-1964-1966, Voltaire Verlag, Berlin; Wehen & wunder der zonenwirtschaft, Verlag Wissenschaft & Politik, Cologne, 66. Address: 4081 E. Huron River Dr, Ann Arbor, Mich. 48104.

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APPEL, PROF. VICTOR H(AROLD), Counseling, Psychol, see 10th ed, Soc. & Behav. Vols.

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APPELL, DR. WILLIAM T(HEODORE), b. Jamaica, N.Y, Nov. 14, 26; m. 56; c. 1. PSYCHOLOGY. Ph.D.(psychol), Adelphi Col, 53. Res. assoc. otolaryngol, col. physicians & surgeons, Columbia, 53-55; staff psychologist, Vet. Admin, Ohio, 55-60, chief psychol. serv, hosp, Sunmount, 61-64; acting dir. psychol. serv, N.Y. State Dept. Ment. Hyg, 64-66; SUPV. PSYCHOLOGIST, GREENE COUNTY COMMUNITY MENT. HEALTH CLIN, 66- U.S.A, 44-46. Psychol. Asn; Asn. Rehab. Ther. Psychotherapy; psychosomatic research. Publ: An exploratory clinical research analysis of the relaxation and motivation program; Psychodynamic factors in psychosomatic deafness; The influence of thermal variations upon the psychosomatic development of white mice. Address: P.O. Box 211, Kinderhook, N.Y. 12106.

APPLEBAUM, WILLIAM, b. Russia, Apr. 24, 06; nat; m. 29, 60. GEOGRAPHY, MARKETING. A.B, Minnesota, 31, 32-33; fel, Cincinnati, 31-32. Mkt. res. analyst, Kroger Co, Ohio, 33-35, chief, mkt. res. dept, 35-38; dir, mkt. res. dept, Stop & Shop, Inc, Mass, 38-42, 45-47, planning & coord, 48, asst. gen. mgr, 49-53; MKT. CONSULT, 54-; LECTR. FOOD DISTRIBUTION & COMP. MKT, GRAD. SCH. BUS. ADMIN, HARVARD, 60-, vis. consult, 54-60. Consult, res. & develop. bd, Nat. Security Coun, 48-52. Dir, Stop & Shop, Inc, 49-; Hannaford Bros. Co, Maine, 60- Mem, deciduous fruit & tree nuts res. & mkt. adv. cmt, U.S. Dept. Agr, 50-55, agr. res. policy cmt, 58-60, nat. agr. res. adv. cmt, 61-64; chmn, cmt. careers in geog, Nat. Res. Coun-Asn. Am. Geog, 50-54; mem. cmt. geog, Nat. Acad. Sci-Nat. Res. Coun, adv. to Off. Naval Res. Div. Earth Sci, 58-61, chmn, 60-61; mem, nat. bus. adv. cmt. exec. develop. progs. food mkt. mgt, Mich. State, 60-; Food for Peace Mission, India, 64, Yugoslavia, 65; sponsoring cmt, Gottlieb Duttweiler Inst. Econ. & Soc. Studies, 64- U.S. del, gen. assembly, Pan Am. Inst. Geog. & Hist, Chile, 50; Coop. Inst. Green Meadow Found, Switz, 54-Dep. chief, geog. div, res. & anal. br, Off. Strategic Serv, 42-43, spec.

asst. to br. dir, 43-44, exec. officer, 44-45; U.S.M.C.R, 43-45, Capt; Bronze Star Medal. Mkt. Asn.(award, 50); Asn. Am. Geog.(citation of merit, 59); Am. Geog. Soc; Statist. Asn; Regional Sci. Asn. Distribution of food; research techniques. Publ: Geography of metropolitan food distribution and banking; Proc. Int. Meeting, Cmn. Appl. Geog, Int. Geog. Union, 8/66; Guidelines for a store location strategy study, J. Mkt, 10/66; Das ISB und seine Zeitschrift aus der Sicht eines Amerikaners, Selbstbedienung und Supermarkt, 4/67. Address: 29 Toby Rd, Belmont, Mass. 02178.

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APPLEY, PROF. MORTIMER H(ERBERT), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

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ARBITMAN, DR. HERMAN D, Psychol, see 10th ed, Soc. & Behav. Vols.

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ARCHER, PROF. E. JAMES, b. Chicago, Ill, Oct. 2, 25; m. 49. PSYCHOLOGY. B.S, Northwestern, 49, M.S, 50, Ph.D.(psychol), 52. Instr. PSYCHOL, Wisconsin, 52-53, asst. prof, 53-57, assoc. prof, 57-60, PROF, 60-65; COLORADO, 65-, dean grad. sch, 65-67. Nat. Sci. Found. sr. fel, appl. Psychol. Res. Unit, Cambridge, Eng, 60-61; mem. psychobiol. rev. panel, Nat. Sci. Found, 64-66; personality and cognition rev. panel, Nat. Inst. Ment. Health, 68-72. U.S.N.R, 43-46. Fel. AAAS; Psychol. Asn.(consult. ed, J. Exp. Psychol, 56-). Human learning. Publ: Some Greco-Latin analysis of variance designs for learning studies, Psychol. Bull; Concept identification as a function of irrelevant information and instructions & Concept identification as a function of obviousness of relevant and irrelevant information, 62, J. Exp. Psychol. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

ARCHER, PROF. STEPHEN H(UNT), b. Fargo, N.Dak, Nov. 30, 28; m. 51; c. 3. STATISTICS. B.A, Minnesota, 49, M.A, 53, Ph.D.(bus. admin), 58. Managing security trader, invests, J.M. Dain & Co, 50, acct. exec, 52-53; res. assoc. bus. admin, Minnesota, 53-54, instr. econ, 54-56; assoc. prof. BUS. ADMIN, COL. BUS. ADMIN, WASHINGTON (SEATTLE), 56-67, PROF, 67- Ford Found. faculty fel, 59-60. Ed, J. Financial & Quant. Anal, 65- U.S.N, 50-52, Res, 52-, Lt. Opers. Res. Soc; Finance Asn; Inst. Mgt. Sci; Econ. Asn. Business mathematics, statistics and finance; management and regional science; economic development. Publ: Co-auth, Introduction to mathematics for business analysis; Business finance: theory and management, 66 & Theory of business finance: a book of readings, 67, Macmillan. Address: College of Business Administration, University of Washington, Seattle, Wash. 98105.

ARCHON, PROF. DION JAMES JOHN, b. Lynn, Mass, May 24, 11; m. 49; c. 2. POLITICAL SCIENCE, ECONOMICS. A.B, Harvard, 40, A.M, 48, Ph.D.(govt. & econ), 51. Instr. mkt. & mgt, SUFFOLK, 53-55, asst. prof. bus. admin, 55-57, assoc. prof, 57-60, GOVT. & ECON, 60-61, PROF, 61- Intel.C, U.S.A, 42-45. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Advert. International politics; political theory; administration; international economic relations. Publ: Co-auth, Principles of advertising, Pitman, 63. Address: Dept. of Government & Economics, Suffolk University, Boston, Mass. 02114.

ARDLEY, HARRY M(OUNTCASTLE), b. Oakland, Calif, Jan. 22, 26; m. 48; c. 3. STATISTICS. A.B, California, 50. Bus. economist, U.S. Dept. Commerce, Wash, 51-53; asst. statistician in charge sci. sampling, PAC. TEL. CO, 53-59, statistician in charge forecasts, budgets & servs, south counties area, 59-63, SUPV. STATISTICIAN, 63- U.S.A, 44-46. Statist. Asn. Theory of probability; sampling techniques; statistical quality control; design of experiments; operations research. Publ: Sampling techniques for quality control. Address: Pacific Telephone & Telegraph Co, 140 New Montgomery St, San Francisco, Calif. 94105.

AREHART, JERALD D, b. Norcatur, Kans, Oct. 15, 22; m. 48; c. 3. ECONOMICS. B.S.B.A, Denver, 49, M.B.A, 50. Instr. econ, Lake Forest Col, 50-51; res. analyst, City of Denver, 52-59, zoning adminstr, 59-63; consult, Gov. Local Affairs Study Cmn, Colo, 63-65; DIR. res, Colo. Pub. Expenditure Coun, 65-66; DIV. LOCAL GOVT, STATE COLO, 66- Instr, Denver, 54-57.

U.S.M.C, 42-46, 51-52, Capt. Econ. Asn. Economic theory; urban land economics; municipal finance. Address: 5424 Vale Dr, Denver, Colo. 80222.

ARENBERG, DR. DAVID LEE, b. Baltimore, Md, Nov. 14, 27; m. 57; c. 2. PSYCHOLOGY. A.B, Hopkins, 51; U.S. Pub. Health Serv. fel, Duke, 53-54, Ph.D, 60. Asst. acad. prediction, bur. testing & guid, Duke, 54-55, asst. human develop, dept. psychiat, 56-60; intern, Roanoke, Va, 55-56; RES. PSYCHOLOGIST EXP. PSYCHOL. IN AGING, GERONT. RES. CENTER, NAT. INSTS. HEALTH, BALTIMORE CITY HOSPS, 60- Summer clin. psychol. trainee, Vet. Admin. Hosp, Salisbury, N.C, 54. U.S.A, 46-47. Psychol. Asn. Verbal learning, short-term retention, time judgement and problem-solving processes with emphasis in gerontology; measurement. Publ: Anticipation interval and age differences in verbal learning, J. Abnorm. Psychol, 65; Verbal learning and retention, Gerontologist, 67; Age differences in retroaction, J. Geront, 67. Address: Gerontology Research Center, National Institutes of Health, Baltimore City Hospitals, Baltimore, Md. 21224.

ARENSBERG, PROF. CONRAD M(AYNADIER), b. Pittsburgh, Pa, Sept. 12, 10; m. 45; c. 3. SOCIAL ANTHROPOLOGY. A.B, Harvard, 31, Sheldon fel, 31-32, Ph.D.(anthrop), 34. Soc. anthrop. field study, County Clare, Ireland, 32-34; asst. prof. soc. anthrop. & mem. indust. rels. sect, Mass. Inst. Tech, 34-37; consult, bur. agr. econ, U.S. Dept. Agr, 38-40; assoc. prof. soc. anthrop. & chmn. dept, Brooklyn Col, 41-43; assoc. prof. sociol. & chmn. dept, Barnard Col, COLUMBIA, 46-52, PROF. ANTHROP. & EXEC. OFFICER DEPT, UNIV, 52- Jr. fel, Harvard, 34-37; Lowell lectr, 36. Consult, Bur. Indian Affairs, U.S. Dept. Interior, 40-42; off. coordinator info, U.S. Dept. State, 42, off. geogr, 42; Japanese relocation camp, Ariz, 42. Mem. surv. soc. sci, UNESCO, Germany, 50; cmt. polit. behav, Soc. Sci. Res. Coun, 51. Mil. Intel, 43-46, Maj. AAAS; Anthrop. Asn; Sociol. Asn: Soc. Appl. Anthrop.(pres, 45; ed, J. Appl. Anthrop, 47); Inter-Am. Soc. Anthrop. & Geog; Soc. Adv. Mgt. General ethnology; linguistics; folklore; community studies and applied anthropology; ethnology of Middle East, Europe and India; industrial organization and behavior. Publ: Interaction theory; Culture and behavior; Comparative economic behavior. Address: Dept. of Anthropology, Columbia University, New York, N.Y. 10027.

ARENSMAN, PROF. RAY W(ILLIAM), b. Huntingburg, Ind, Oct. 14, 21; m. 46; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Evansville Col, 43; M.S, Indiana, 50, Ed.D, 55. Instr, high sch, Ind, 46-49; bus, southeast. exten. center, Indiana, 49-53, asst. & teaching assoc. bus. ed, sch. bus, 53-55, asst. prof, 55-58; PROF. ECON. & DEAN SCH. BUS. ADMIN, EVANSVILLE, 58- Consult, Allstate Ins. Co. & Farm Bur. Ins. Co, 56; Indianapolis Life Ins. Co, 57-58; Goodwill Industs, 58; Nat. Secys. Asn, 57-58; Parent Teachers Asn. of Ind, 57-58. U.S.N.R, 42-54, Lt.(jg). Office management; systems and procedures; business communications and correspondence management; employee training; human relations. Address: School of Business Administration, University of Evansville, Evansville, Ind. 47704.

AREY, DR. LEO B(ETRAM), b. Richfield, N.C, June 19, 13; m. 41. CLINICAL PSYCHOLOGY. A.B, Lenoir Rhyne Col, 35; Ph.D.(psychol), Chicago, 52. Staff psychologist, HINES VET. ADMIN. HOSP, 52-61, coordinator psychol. res. prog, 56-61, res. psychologist, 62-66, ASST-CHIEF PSYCHOL. SERV, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 62. U.S.A, 42-46. Psychol. Asn; Acad. Psychother. Processes in group and individual psychotherapy; psychophysiological study of sleep; dream structure and content in normal and psychopathological states. Address: 5530 S. Shore Dr, Chicago, Ill. 60637.

ARFFA, DR. MARVIN SANFORD, b. Syracuse, N.Y, Mar. 21, 34; m. 63; c. 2. PSYCHOLOGY. A.B, Syracuse, 56; M.S, Buffalo, 59; Ed.D.(counseling), State Univ. N.Y. Buffalo, 63. Counseling psychologist, Vet. Admin, 62-63; vis. lectr, Mass. State Col. Framingham, 64-65; ASSOC. PROF. SOC. SCI, NORTHEASTERN, 65- Res. proj. dir, voc. rehab. admin, Dept. Health, Ed. & Welfare, 65-66; vis. lectr, Connecticut, 66. Psychol. consult, Mass. Rehab. Cmn, 65-; res. consult, Sargent Col, Boston, 67- AAAS; Psychol. Asn; Personnel & Guid. Asn. Community psychology; rehabilitation counseling; urban affairs; rehabilitation of stroke patients; volunteer and non-professional support personnel. Publ: Ed, Volunteer administration, Northeastern, 67; auth, High school and college student volunteers in community and psychiatric settings, Am. Psychiat. Asn, 4/66; The influence of volunteer experience on career choice, Voc. Guid. Quart, summer 66. Address: Dept. of Social Science, Northeastern University, 360 Huntington Ave, Boston, Mass. 02115.

ARGOW, WALTER WEBSTER, b. Toledo, Ohio; m. 50; c. 2. PSYCHOLOGY. A.B, Toledo, 31, A.M, Yale, 37; N.Y. Univ, 40-42, 49. Consult. delinquency prevention, State Dept. Ed, Conn, 36-38; dir. community serv. bur. & instr, N.Y. Univ, 39-42; field rep, Fed. Security Agency, 42-45; assoc. prof, Willamette, 45-47; exec. asst. prfnl. ed, Menninger Found, 47-49; state exec. dir, Nat. Asn. Ment. Health, Ind, Wis. & Calif, 49-59; CONSULT. PSYCHOLOGIST & COORDINATOR, METROP. PSYCHOTHER GROUP, 59- Psychol. Asn; Nat. Asn. Social Workers. Etiology of socially destructive behavior; interprofessional education for the behavioral sciences; international conflict resolution; sensitivity dynamics and non-verbal communication. Publ: The mental health of the three little monkeys, Ment. Hyg; The academic paradox, J. Higher Ed; Higher education's para-campus, Overview. Address: 800 S. Robertson Blvd, Los Angeles, Calif. 90035.

ARGYRIS, PROF. CHRIS, b. Newark, N.J, July 16, 23; m. 50; c. 1. PSYCHOLOGY, SOCIOLOGY. Clark, 47; Pennsylvania, 48; M.A, Kansas, 49; Ph.D, Cornell, 51. From assoc. prof. indust. admin. & res. dir. labor & mgt. center to BEACH PROF. ADMIN. SCI, YALE, 51- Lectr, Univs. Sorbonne, Leiden, London, Cambridge, Stockholm & Oslo; vis. lectr, Columbia. Spec. consult, Dept. Pub. Health, Wash, D.C, 52-54; U.S. Dept. Air Force, 56- Sig.C, U.S.A, 42-46, Lt. Sociol. Asn; Soc. Appl. Anthrop; Inst. Mgt. The behavioral sciences and organization; social and clinical psychology; industrial sociology and anthropology. Publ: Organization and innovation; Integrating the individual and the organization; Interpersonal competence and organizational effectiveness. Address: Dept. of Administrative Sciences, Yale University, New Haven, Conn. 06520.

ARIETI, DR. SILVANO, b. Pisa, Italy, June 28, 14; U.S. citizen; m. 41, 65; c. 2. PSYCHIATRY, PSYCHOANALYSIS. B.A, Lycée Galileo, Pisa, 32; M.S, Med. Sch. Univ. Pisa, 38; dipl, W.A. White Inst. Psychoanal, 52. Dazian fel, N.Y. State Psychiat. Inst, 39-41; Am. Found. Trop. Med. grant, 44-45; psychiatrist, Pilgrim State Hosp, 43-46; asst. prof. clin. psychiat, col. med, State Univ. N.Y, 50-53, assoc. prof, 53-61; CLIN. PROF. PSYCHIAT. & TRAINING ANALYST, N.Y. MED. COL, 61- Vis. fel, primate lab, Yale, 40. Gold medal, Group Adv. Psychother, Milan, 64. Fel. Psychiat. Asn; fel. Acad. Psychoanal.(Fromm-Reichmann award, 68); fel. Am. Med. Asn; fel. Asn. Neuropath. Psychopathology; psychotherapy; schizophrenia; thought disorders in mental conditions. Publ: Interpretation of schizophrenia, Brunner, 55; ed, American handbook of psychiatry, Basic Books, 59 & 66; auth, The intrapsychic self, Basic Books, 67. Address: 103 E. 75th St, New York, N.Y. 10021.

ARIS, PROF. EARL MAYNARD, b. Pontiac, Mich, Sept. 12, 14; m. 37; c. 1. ECONOMICS, ACCOUNTING. A.B, Albion Col, 37; M.B.A, Michigan, 39, Lybrand fel, 64, Ph.D.(bus. admin), 66. Lectr. acct, Ohio Wesleyan, 39-40; res. acct, Mich. Consol. Gas Co, 40-42; plant comptroller, liquid-cooled eng. div, Aviation Corp, 42-43; mem. financial staff, Fruehauf Trailer Co, 43-45; asst. prof. ECON, ALBION COL, 45-49, assoc. prof, 49-55, PROF, 55- Earhart fel, Realm Found, 61-62. Consult, City of Albion, 49-50. Am. Acct. Asn. Public utility cost and rate determination; manufacturing cost studies. Publ: Outline to essentials of accounting; Jackson City, with a will, Mich. Econ. Record. Address: 504 Linden Ave, Albion, Mich. 49224.

ARISS, R(OBERT) M(cLEOD), b. Hood River, Ore, Oct. 23, 08; m. 63. ANTHROPOLOGY. A.B, California, Berkeley, 32 & 37; M.A, California, Los Angeles, 53; New Mexico, 38-41. Field asst. paleont, California, 32-33; asst. to technician, bur. entom. & plant quarantine, U.S. Dept. Agr, D.C, 33-36; asst. anthrop, New Mexico, 39-41, hist, 40-41; ranger, U.S. Nat. Park Serv, N.Mex, 41; immigration inspector, U.S. Dept. Justice, Tex, 41; counsr, U.S. Army Separation Center, Ft. McArthur, Calif, 45-46; asst. curator hist. & anthrop, LOS ANGELES COUNTY MUS. NATURAL HIST, 46-50, CURATOR ANTHROP, 50- Instr, Southern California, 53-54, 56; asst. prof, San Fernando Valley State Col, 58. U.S.N.R, 42-46, Lt. Comdr. Fel. Anthrop. Asn; Archaeol. Res. Asn.(pres, 56). Paleontology; ethnology; sociology; archaeology; social anthropology and history. Publ: Man in our changing world, 52 & Tarah-umar Indians of the Barranca de Cobre region, Chihuahua, Mexico, 54, Los Angeles County Mus. Quart; Plastic arts of the Yoruba, Art Forum, 63. Address: Los Angeles County Museum of Natural History, Exposition Park, Los Angeles, Calif. 90007.

ARKEBAUER, DR. HERBERT J(OHN), b. Sylvan Grove, Kans, Sept. 2, 29; m. 52; c. 4. SPEECH PATHOLOGY. B.S, Concordia Teachers Col.(Ill), 51; M.A, Columbia, 53; Marquette, 56-60; Nat. Defense Ed. Act fel. & Ph.D. (speech sci, path), Iowa, 64. Instr. speech & hearing, Mill Neck Manor Sch. for Deaf, 51-55; speech, Milwaukee Lutheran High Sch, 55-61; asst. prof, Concordia Teachers Col.(Ill), 64-65, assoc. prof, 65-67; ASST. PROF. SPEECH SCI. & PATH, NEBRASKA, LINCOLN, 67- Speech & Hearing Asn. Speech breathing physiology, specifically intraoral air pressures accompanying speech associated speech difficulties of children with clefts of the palate; delayed auditory feedback phenomenon. Publ: Co-auth, Development of a test for velopharyngeal competence during speech, Cleft Palate J, 1/66 & Peak intraoral air pressures during speech, J. Speech & Hearing Res, 6/67. Address: Dept. of Speech Science & Pathology, 203-B3 Temple Bldg, University of Nebraska, Lincoln, Nebr. 68508.

ARKIN, DR. ARTHUR M(ALCOLM), b. New York, N.Y, Jan. 25, 21; m. 43; c. 2. BEHAVIORAL SCIENCE. B.S, Chicago, 42; M.D, N.Y. Med. Col, 45. Intern, Montefiore Hosp, Bronx, N.Y, 45-46; res, Bellevue Psychiat. Hosp, New York, 46-47; Menninger Sch. Psychiat, Kans, 47; Brooklyn State Hosp, N.Y, 48; Postgrad. Center Psychother, 48-51; headache clin, Montefiore Hosp, 50-51; ASST. CLIN. PROF, ALBERT EINSTEIN COL. MED, 55- Private practice, 49-51, 53-; adj. attend. physician, Montefiore Hosp. & Med. Center, 53-; assoc. vis. psychiatrist, Bronx Munic. Hosp. Center, 56-; adj. assoc. prof, grad. sch. arts & sci, N.Y. Univ, 61-; prin. investr, Nat. Inst. Ment. Health res. grant projs, 62-70; adj. assoc. prof. & center staff psychiatrist, City Col. New York, 66-; Nat. Inst. Ment. Health grant, dept. soc. med. & psychiat, Montefiore Hosp, 68-71. Psychiat. consult, bur. appl. soc. res, Columbia, 53-55; dept. home care, Montefiore Hosp, 54-55; Barrett House, Florence Crittenton League, 54-56. Dipl, Am. Bd. Psychiat. & Neurol, 52. Med.C, U.S.A, 51-53, Capt. Am. Med. Asn; fel. Psychiat. Asn; Asn. Adv. Psychother; Asn. Psychophysiol. Study Sleep; Soc. Clin. & Exp. Hypnosis; Soc. Psychophysiol. Res. Psychology and psychophysiology of dreams, sleep and cognition. Publ: Co-auth, Post-hypnotically stimulated sleep-talking, 4/66 & auth, Sleep-talking. A review, 8/66, J. Nervous & Ment. Disease; An observational note on eye movement patterns during REM and NON-REM sleep in subjects with congenital nystagmus, Psychophysiology, 7/66. Address: 12 E. 97th St, New York, N.Y. 10029.

ARKIN, PROF. H(ERBERT), b. New York, N.Y, Apr. 30, 06; m. 46; c. 2. STATISTICS. B.S.S, City Col. New York, 27, M.B.A, 28; Ph.D, Columbia, 40. From instr. to asst. prof. BUS. ADMIN, BARUCH SCH, CITY UNIV. NEW YORK, 30-49, assoc. prof, 49-53, PROF, 53-, CHMN. STATIST. DEPT, 65-, supvr, 47-65. Consult, Philip Morris, Inc; Price Waterhouse & Co; off. inspector gen, U.S. Dept. Agr, 66- Fel. AAAS; Statist. Asn; Soc. Qual. Control. Statistical methods; tables for statisticians. Publ: Handbook of sampling in auditing and accounting, McGraw, 63. Address: Bernard M. Baruch School, City University of New York, 17 Lexington Ave, New York, N.Y. 10010.

ARLITT, PROF. ADA HART, b. New Orleans, La, July 27, 89; m. 09. PSYCHOLOGY. A.B, Tulane, 13; fel. & Ph.D.(psychol), Chicago, 17. Assoc. ed. psychol, Bryn Mawr Col, 17-23; psychologist, Cent. Clin, Cincinnati, Ohio, 23-25; prof. child care & training, CINCINNATI, 25-51, EMER. PROF. CHILD CARE & TRAINING & PSYCHOL, 51-, head dept. child care & training, 25-51. Nat. chmn. parent ed, Nat. Cong. Parents & Teachers, 28-43. Fel. AAAS; Psychol. Asn. Behavior problems in young children; psychological aspects of family life; child psychology. Publ: Psychology of infancy and early childhood; Family relationships; Adolescent psychology. Address: 3420 Manor Hill Dr, Cincinnati, Ohio 45220.

ARLT, PROF. CARL T(RISTAN), b. Mt. Vernon, N.Y, Jan. 11, 13; m. 35; c. 2. ECONOMICS. A.B, Colgate, 33; N.Y. Univ, 33-34; summers, Chicago, 35, Harvard, 36; Ph.D, Cornell, 42. Instr, Colgate, 34-36; Cornell, 36-40; from instr. to prof. econ, Oberlin Col, 40-57; economist, Bd. Governors, Fed. Reserve Syst, 57-59; staff economist, U.S. Senate Banking & Currency Cmt, 59; asst. v.pres, Fed. Reserve Bank of St. Louis, 59-63; BAILEY PROF. MONEY, BANKING & FINANCE, ILLINOIS, URBANA, 63- Vis. prof, Cornell, 54. U.S.N, 43-46. Econ. Asn; Finance Asn. Money and banking; money markets; international finance. Publ: Government loan programs to small business; Member bank term lending to business; co-auth, Money, banking and the financial system. Address: College of Commerce and Business Administration, University of Illinois, Urbana, Ill. 61801.

ARMATAS, DR. JAMES P, b. Joliet, Ill, Feb. 14, 31; m. 57; c. 2. PSYCHOLOGY. B.S, Colorado, 53, M.P.S, 54; Ph.D.(psychol), Kansas, 58. Lectr, Kansas, 54-56; STAFF PSYCHOLOGIST, VET. ADMIN. CENTER, WADSWORTH, 58- Consult, Thomas & Assocs, 58- U.S.A.F, 51-52. Psychol. Asn. Multiple methods of personality assessment; rehabilitation of the chronically disabled. Publ: Co-auth, Management of people, W.C. Brown, 65; co-auth, Personality and interest patterns, 63 & auth, Conforming personality model, 64, J. Counseling Psychol. Address: 5424 W. 86th St, Prairie Village, Kans. 66207.

ARMBRUSTER, DR. G(ORDON) H(ENRY), b. Milwaukee, Wis, July 4, 13; m. 40; c. 1. SOCIAL PSYCHOLOGY, ANTHROPOLOGY. Ph.B, Wisconsin, 35; Ph.D.(sociol, soc. psychol), London, 40. Asst. prof. soc. studies, Olivet Col, 41-42; instr. sociol. & soc. psychol, State Col. Wash, 42-43; personnel consult, Ernst & Ernst, 44-50, dir. personnel & orgn. servs, 50-55; v.pres. orgn. & planning, W.A. Sheaffer Pen Co, 55-62; DIR. ORGN. & PERSONNEL SERV, TOUCHE, ROSS, BAILEY & SMART, 63- Mgt. consult, 62- Sociol. Asn; Soc. Appl. Anthrop; Psychol. Asn; Mgt. Asn; Personnel & Guid. Asn. Organizational planning; personnel evaluation and development; general administration. Address: Apt. 5B, 444 E. 82nd St, New York, N.Y. 10028.

ARMENTROUT, PROF. W(ALTER) W(ARDLAW), Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

ARMER, DR. J(OHN) MICHAEL, b. Phoenix, Ariz, June 27, 37; m. 60; c. 2. SOCIOLOGY. B.A, Whittier Col, 59; M.A, Wisconsin, 62, Ph.D.(sociol), 64. Proj. assoc. SOCIOL, Wisconsin, 63-64; ASST. PROF, OREGON, 65- For. Area Prog. res. fel, 64-65; Nat. Sci. Found. res. grant, 66- Sociol. Asn; African Studies Asn. Educational aspiration and achievement; psychological change in developing societies; occupational and national stratification. Publ: Co-auth, Neighborhood context and college plans, Am. Sociol. Rev, 4/66; auth, A preliminary analysis and measurement of national prestige, Pac. Sociol. Rev, spring 66; co-auth, On scholarship and interscholastic athletics, In: Sport, play and leisure, Bobbs (in press). Address: Dept. of Sociology, University of Oregon, Eugene, Ore. 97403.

ARMFIELD, DR. AARON HOWARD, b. Anoka, Nebr, Feb. 15, 37; m. 60; c. 2. SPECIAL EDUCATION. B.F.A, Wayne State Col, 59; M.A, Colo. State Col, 62, Ed.D.(spec. ed), 64. Teacher, elem. schs, Nebr. & S.Dak, 54-56; pub. schs, Iowa, 59-62; dir, United Cerebral Palsy Center, Colo, 62-64; ASSOC. PROF. PSYCHOL. & DIR. SPEC. ED, EAST TEXAS STATE, 64- Asn. Ment. Deficiency; Coun. Except. Children. Address: Dept. of Psychology, East Texas State University, Commerce, Tex. 75428.

ARMILLA, DR. JOSE, b. Cebu City, Philippine Islands, Nov. 18, 34; m. 61. PSYCHOLOGY. B.A, Oregon, 56; fel, Michigan, 56-60, Ph.D.(soc. psychol), 60. Asst. prof. PSYCHOL. & chmn. dept, Inter-Am. Univ. P.R, 60-62; assoc. prof. & chmn. dept, Thiel Col, 62-65; RES. SCIENTIST, HumRRO, GEORGE WASHINGTON, 65- Nat. Inst. Ment. Health res. grant, 63-65; consult, Joint U.S. Mil. Assistance Group, Thailand, 67- AAAS; Psychol. Asn. Political behavior; organization and group functioning; relations between organizations. Publ: Anxiety in taking the role of the leader, J. Abnorm. & Soc. Psychol, 5/64; Birth order, research participation, and social participation of Peace Corps volunteers, Psychol. Reports, 66; Predicting self-assessed social leadership in a new culture with the MMPI, J. Soc. Psychol, 12/67. Address: HumRRO, 300 N. Washington St, Alexandria, Va. 22314.

ARMSTRONG, DR. ANNE (MRS. von ROYK-LEWINSKI), b. Hoboken, N.J, Sept. 3, 24; div. INTERNATIONAL RELATIONS. A.B, Montclair State Col, 44; A.M, Columbia, 47, Ph.D, 61. Intel. analyst, U.S. Mil. Govt, Berlin & Munich, 47-48; instr. POLIT. SCI. Fairleigh Dickinson, 52-60, ASST. PROF, 61-64; HUNTER COL, 64- U.S.A.F, 50-51, 2nd Lt. Soc. Int. Law; Polit. Sci. Asn; Hist. Asn. European history; German political development; United States foreign policy; analysis of the impact of the division of Berlin on a sociological cross-section of East and West Berliners. Publ: Unconditional surrender: impact of the Casablanca policy upon World War II; Attentat, a drama, Molden, Austria, 66. Address: Dept. of Political Science, Hunter College, Bronx, N.Y. 10468.

ARMSTRONG, CHARLES M(ACAULEY), b. Hillsdale, Mich, Nov. 2, 02; m. 32; c. 2. STATISTICS, ECONOMICS. B.S, Mich. State Col, 25; M.S, Michigan, 28. Statist. & econ. researcher, Gen. Elec. Co, 25-37; statistician, res. bur, State Div. Employment, N.Y, 37-43; res. div, State Dept. Ed, 43-67; CONSULT, WORLDWIDE ED. & RES. INST, 67- Statist. Asn; fel. Soc. Quality Control; Ed. Res. Asn; Soc. Res. Child Develop. Statistical classification of children; forecasting economic trends; statistical evaluation of library operations. Publ: Co-auth, A method of predicting school-age population; auth, The New York State experiment in regional library service, Library Quart; co-auth, Forms of mental growth patterns revealed by reanalysis of the Harvard growth data, Child Develop. Address: 74 Jordan Blvd, Delmar, N.Y. 12054.

ARMSTRONG, DR. CLAIRETTE P, Psychol, see 10th ed, Soc. & Behav. Vols.

ARMSTRONG, DR. CLINTON C, b. Yazoo City, Miss, Aug. 14, 14. PSYCHOLOGY, SOCIOLOGY. B.S, Alcorn Agr. & Mech. Col, 38; Howard, 42-43; S.T.B, Boston, 45, Ph.D.(psychol), 50. Instr, high sch, Miss, 38-41; assoc. prof. philos. & relig, Bennett Col.(N.C), 45-61; vis. prof. ed, Agr. & Tech. Col. N.C, 61-62; PROF. SOC. SCI. & CHMN. DEPT, ALCORN AGR. & MECH. COL, 62- Danforth Found. scholar, 55-56, 59-60. AAAS; Sociol. Asn; Hist. Asn; Pop. Asn. American history. Address: Dept. of Social Science, Alcorn Agriculture & Mechanical College, P.O. Box 764, Lorman, Miss. 39096.

ARMSTRONG, DR. DAVID L(EE), b. Mansfield, Ohio, Sept. 29, 35; m. 57; c. 3. ECONOMICS. B.Sc, Ohio State, 57, M Sc, 58, Ph.D, 60. Asst. agr. econ, Ohio State, 59, asst. instr, 60-61; res. grant, California, Davis, 61-62, asst. res. agr. economist, 61-63; ASSOC. PROF. AGR. ECON, SOUTHERN ILLINOIS, 63- Vis. assoc. prof. & res. grant, Mich. State, 68- U.S.A.R, 57-, 1st Lt. Agr. Econ. Asn; Soc. Farm Mgr. & Rural Appraisers; Int. Asn. Agr. Econ. Farm management and production economics; economies of size on crop farms using economic engineering approach; economic and non-economic factors affecting the purchasing practices of large commercial farmers; replacement models for earning assets; use of simulation. Publ: Co-auth, Synthesis of optimum forage handling systems for a one-man dairy farm, J. Dairy Sci; The impact of general studies on the agricultural economics curriculum, J. Farm Econ, 8/64; Economics in the acquisition of inputs—a pilot study, Can. J. Agr. Econ, 13: 70-81. Address: Dept. of Agricultural Industries, Southern Illinois University, Carbondale, Ill. 62901.

ARMSTRONG, PROF. DONALD EUGENE, b. Nanton, Alta, Can, May 10, 25; m. 47; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Alberta, 49, B.Com, 50; Ph.D, McGill, 54. Imp. Oil & Bronfman fels, Manchester, 55-56; asst. prof. econ, McGILL, 56-60, prof. & dir. sch. commerce, 60-65, founding-dir. GRAD. SCH. BUS, 62-66, PROF. APPL. ECON, 66- Econ. adv. Royal Cmn. on Transportation, 60-61. Consult, Royal Cmn. Bilingualism & Biculturalism, 65-; standing cmt. transportation, House of Commons, 66-67; Econ. Coun. Can, 67- Mem, Can. Tax Found; Econ. Coun. Que, 64-; pres, Asn. Can. Schs. Business, 64-65. Can. Army, 43-45, Lt. Am. Econ. Asn; Can. Polit. Sci. Asn; Royal Econ. Soc. Application of economics to business; management education and forecasting. Publ: Auth, Introduction to economics; co-auth, Policies and practices of United States subsidiaries in Canada; auth, Third party intervention in Alberta coal industry, In: Patterns of industrial dispute settlement. Address: 3 Westland Dr, Montreal 28, Que, Can.

ARMSTRONG, PROF. HUBERT C(OSLET), b. Lincoln, Nebr, June 22, 00; m. 49; c. 1. PSYCHOLOGY. B.S, Washington (Seattle), 30, M.S, 31; Ph.D, Stanford, 53. Asst. dir. res, Oakland Pub. Schs, Calif, 31-33, from asst. to assoc. individual guid, 33-38, assoc. individual guid. & acting dir. dept, 38-41, dir. res, 41-44; consult, State Reconstruct. & Re-employ. Cmn, Calif, 44-45; chief, div. res. & statist, State Dept. Ed, 45-46; dir. res, State Legis. Cmn. Primary & Pre-sch. Ed, 46-47; civil info. & ed. sect, Supreme Comdr. Allied Powers, Japan, 47-48; adv. to minister ed, U.S. Dept. Army, Korea, 48; dir. res, State Legis. Assembly Cmt. Ed, Calif, 49; lectr. ed, Harvard, 49-51; dir, Pub. Ed. Asn, N.Y, 51-53; assoc. dir. res, State Cmn. Ed. Admin, Calif, 53-54; prof. ed, Claremont. Grad. Sch, 54-65; RETIRED. Researcher, Univ. California, 33-38; broadcaster, Nat. Broadcasting Co, Calif, 35-39; summer lectr, Mills Col, 33; Ore. State Col, 38-39; Washington (Seattle), 40; U.S. Indian Serv, 41-42; vis. lectr, Univ. Tokyo, Japan, 60-61. Consult, Stanford Surv. Pub. Instruct, Hawaii, 56-57. U.S.A, 18; Nat. Guard, 21-26. AAAS; Psychol. Asn. Visual functions in relation to reading ability; vocabulary measurement in auditory and visual modes using near-absolute scale for both modes; fiscal studies of national and state education. Publ: Chap. in California Local Finance; co-auth, Education of the handicapped child & Mindways: stories of human behavior. Address: 4003 N. Garey Ave, La Verne, Calif. 91750.

ARMSTRONG, DR. JACK L(YNN), b. Effingham, Ill, June 6, 37; m. 58; c. 2. PSYCHOLOGY. A.B, William Jewell Col, 58; M.Ed, Illinois, 59; Ph.D.(ed. psychol), Minnesota, 64. Asst. prof. psychol, Waynesburg Col, 64-67, acting chmn. dept. psychol. & ed, 66-67; ASST. PROF. PSYCHOL. & ASSOC. DEAN, MACALESTER COL, 67- Consult, Children's Aid Soc, Greene County, Pa, 64-67. Psychol. Asn. Personality; vocational and personal development of college students; counseling and psychotherapy; psychological testing. Address: Dept. of Psychology, Macalester College, St. Paul, Minn. 55101.

ARMSTRONG, PROF. JOHN A(LEXANDER), b. St. Augustine, Fla, May 4, 22; m. 52; c. 3. POLITICAL SCIENCE. Ph.B, Chicago, 48, M.A, 49; Frankfurt, 49-50; Soc. Sci. Res. Coun. fel, Columbia, 52-53, Ph.D.(pub. law, govt), 53. Res. assoc, War Documentation Proj, 51, 53-54; asst. prof. int. rels, Denver, 52; from asst. prof. to PROF. POLIT. SCI, WISCONSIN, 54- Am. Coun. Learned Socs, East European res. grant, 63-64; Guggenheim fel, 67-68. Consult, for. study & res. fel. prog, Ford Found, 54-56; adv, bur. European affairs, Dept. State, 67- Mem. Coun. For. Rels. U.S.A, 42-46. Polit. Sci. Asn; Asn. Adv. Slavic Studies (pres, 65-67). Soviet political and social structure; Soviet foreign policy; international relations. Publ: Ukrainian nationalism, 1939-1945; The Soviet bureaucratic elite; The politics of totalitarianism. Address: 312 North Hall, University of Wisconsin, Madison, Wis. 53706.

ARMSTRONG, DR. JOHN C, b. Jeffersonville, Ind, Oct. 15, 39; m. 63; c. 1. PSYCHOLOGY, EDUCATION. B.S, Kentucky, 62; M.S, Indiana, 64, Ed.D. (guid, counseling), 67. Counsr, Indiana Univ, 65-67; COUNSELING PSYCHOLOGIST, VA. POLYTECH, 67- U.S.A, 57. Psychol. Asn; Personnel & Guid. Asn. Interpersonal relationships; adolescent growth and development; personel adjustment of the college-age student. Address: Counseling Center, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

ARMSTRONG, DR. JOHN P(AUL), b. Montrose, Pa, June 2, 10; m. 51. POLITICAL SCIENCE. A.M, Chicago, 48, Chinese Govt. fel, 47-48, Ph.D. (polit. sci), 53. Assoc. prof. polit. sci. & hist, Baldwin-Wallace Col, 49-54; vis. assoc. prof, Bowdoin Col, 54-55; lectr, sch. adv. int. studies, Hopkins, 55-56, assoc. prof, 56-57, co-dir, Rangoon-Hopkins Center for Southeast Asia Studies, Rangoon Univ, 56-57, head Hopkins teaching group, Gadjah Mada Univ, Jogjakarta, 57-59; RES. ASSOC, OPERS. & RES, INC, D.C, 59-Vis. prof. for Bowdoin Col, China, 64-65, Southeast Asia, 67. American foreign policy; Far Eastern international relations; theory of international relations. Publ: Sihanouk speaks, Walker, 64; New editions of Southeast

Asia & American foreign policy, 66 & Chinese dilemma, 67, Laidlaw Bros. Address: 13010 Pope's Head Rd, Clifton, Va. 22024.

ARMSTRONG, DR. RENATE GERBOTH, b. Berlin, Germany, Apr. 10, 25; nat. PSYCHOLOGY. A.B, Washington (St. Louis), 47, fel, 47, M.A, 49; fel, Colorado, 55, Ph.D, 57. Intern & psychologist, Alton State Hosp, Ill, 48-51; psychologist, East Moline State Hosp, 51-55, 57-60, chief psychologist, 60-62; staff psychologist, Westchester Div, N.Y. Hosp, 62-63; CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, NORTHPORT, N.Y, 63- Instr. Shurtleff Col, 49-51; Moline Community & Augustana Cols, 52-55, 57-61, Adult Ed. Prog. Northport, N.Y, 64-; Suffolk Community Col, 67- Consult, Westchester Div, N.Y. Hosp, 63-66; Private Practice, 64- Psychol. Asn. Clinical psychology; alcoholism; self concept; religion and values; intelligence; psychodiagnostic testing; group psychotherapy; community education; Bender-Gestalt test; couples therapy. Publ: Study of the two forms of the Wechsler-Bellevue intelligence scale, J. Consult. Psychol; Personality structure in alcoholism, Psychol. Newsletter; Reevaluation of Bender-Gestalt, J. Projective Tech, 63 & 65. Address: 48 Tamarack St, East Northport, N.Y. 11731.

ARMSTRONG, PROF. ROBERT G(ELSTON), Soc. Anthrop, see 10th ed, Soc. & Behav. Vols.

ARMSTRONG, DR. ROBERT P(LANT), b. Wheeling, W.Va, May 19, 19. ANTHROPOLOGY. B.A, Arizona, 44; M.A, Iowa, 45; Ph.D.(anthrop), Northwestern, 57. Traveller, Houghton Mifflin & Co, 45-46; instr. Eng, Montana State, 46-50; Inst. Eng. Studies, Jogjakarta, Indonesia, 55-56; field ed, Harper & Bros, 56-58; ed, Alfred A. Knopf, 58-59; founder & dir, Univ. Ariz. Press, 59-60; DIR, NORTHWESTERN UNIV. PRESS, 60-, PROF. ANTHROP, 67- Am. Coun. Learned Socs. adv. grad. fel; summer lectr, Michigan, 56-57. U.S.N, 40-43. Fel. Anthrop. Asn; fel. African Studies; Mod. Lang. Asn. Ethnoaesthetics; publishing. Publ: Banyaruanda proverbs, J. Am. Folklore, 54; Guianaism, Tri-Quarterly, 66; Book publishing in Nigeria, Africa Report, 4/66. Address: Northwestern University Press, 1735 Benson Ave, Evanston, Ill. 60201.

ARMSTRONG, DR. W(ILLIAM) M(ARTIN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ARMSTRONG, WILLIS C(OBURN), b. Brooklyn, N.Y, Apr. 2, 12; m. 59; c. 1. POLITICAL SCIENCE. A.B, Swarthmore Col, 33; M.A, Columbia, 34; summers, California, 36-37; Columbia, 34-39. Teacher, Horace Mann Sch, N.Y, 34-39; translator, Am. Embassy, Moscow, 39-41; officer, Lend-Lease Admin, D.C, 41-43; For. Econ. Admin, 43-45; War Shipping Admin, 45-46; econ. area, U.S. Dept. State, 46-58; econ. counsr, U.S. Embassy, Ottawa, 58-60, minister counsr. & dep. chief mission, 60-62; dir. Off. Brit. Commonwealth & North. European Affairs, Dept. of State, 62-64; minister econ. affairs, U.S. Embassy, London, 64-67; ASSOC. DEAN SCH. INT. AFFAIRS, COLUMBIA, 67- Lectr, American Univ, 45-46; sch. adv. int. studies, Hopkins, 46-58. Mem. U.S-U.K, Ed. Cmn, 66-67. Rockefeller award, 56. Hist. Asn. Natural rubber and Asian development; Russian agrarian history; nineteenth century United States history; Canadian-American affairs. Publ: Soviet approach to international trade, Polit. Sci. Quart. Address: 230 Snowden Lane, Princeton, N.J. 08540.

ARMUS, HARVARD L(EONARD), b. New York, N.Y, May 18, 29; m. 52; c. 3. PSYCHOLOGY. A.B, N.Y. Univ, 50; A.M, Columbia, 52; Ph.D.(exp. psychol), Iowa, 55. Instr. psychol, Ft. Wayne Center, Indiana, 54-55, Indianapolis Center, 55-56, res. assoc. exp. psychol, inst. psychiat. res, med. center & instr, sch. med, 56-60; asst. prof. PSYCHOL, TOLEDO, 60-63, assoc. prof, 63-68, PROF, 68-, DIR. LABS, 60- Psychol. Asn; Psychonomic Soc. Learning theory; motivation; secondary reinforcement. Publ: Effect of magnitude of reinforcement on acquisition and extinction of a running response, J. Exp. Psychol; Secondary reinforcement strength as a function of schedule of primary reinforcement, J. Comp. & Physiol. Psychol; co-auth, Startle decrement and secondary reinforcement stimulation, Psychonomic Sci, 66. Address: Dept. of Psychology, University of Toledo, Toledo, Ohio 43606.

ARNADE, PROF. CHARLES W(OLFGANG), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ARNAUD, PROF. SARA H(AYES), b. Woonsocket, R.I, Dec. 26, 21; m. 50. CLINICAL PSYCHOLOGY, CHILD DEVELOPMENT. B.S, Simmons Col, 43; M.A, Boston, 49, Ph.D.(clin. psychol), 57. Trainee clin. psychol, Boston Psychopath. Hosp, 49-50; psychosomat. clin, Mass. Mem. Hosps, 50-51; intern, Conn. State Hosp, 51-52; fel. clin. psychol, WEST. PSYCHIAT. INST, SCH. MED, PITTSBURGH, 57-58, instr. PSYCHOL, 58-60, ASST. PROF, 60-, STAFF PSYCHOLOGIST, ARSENAL FAMILY & CHILDREN'S CENTER, 58- Psychol. Asn; Orthopsychiat. Asn; Soc. Res. Child Develop; Soc. Proj. Tech. Personality development in children; family psychodynamics. Publ: Some psychological characteristics of children of multiple sclerotics, Psychosomat. Med; A system for deriving quantitative Rorschach measures of certain psychological variables for group comparisons, J. Proj. Tech; Changing ideas about intelligence, Australian Pre-Sch. Quart, 5/67. Address: Arsenal Family & Children's Center, 40th St. & Penn Ave, Pittsburgh, Pa. 15224.

ARNHEIM, DR. RUDOLF, b. Berlin, Germany, July 15, 04; nat. PSYCHOLOGY. Ph.D.(psychol), Berlin, 28. Guggenheim fel. psychol. of art, 42-43; mem. faculty psychol, Sarah Lawrence Col, 43-68; PROF. PSYCHOL. OF ART, HARVARD, 68- Lectr, New Sch. Soc. Res, 43-47, vis. prof, 47-, Fulbright lectr, Ochanomizu Women's Univ, Tokyo, 59-60. U.S. Off. Ed. res. grant, 66-68. Psychol. Asn; Soc. Aethetics.(pres, 59-60). Psychology of art. Publ: Art and visual perception: a psychology of the creative eye; Film as art; Towards a psychology of art, Univ. Calif, 66. Address: Carpenter Center Visual Arts, Harvard University, Cambridge, Mass. 02138.

ARNHOFF, DR. FRANKLYN N(ATHANIEL), b. New York, N.Y, Nov. 6, 26; m. 52; c. 2. CLINICAL PSYCHOLOGY. B.S, Long Island, 48; M.A, N.Y. Univ, 49; Milbank fel, Northwestern, 51, U.S. Pub. Health Serv. fel, 51-52, Ph.D.(psychol), 53. Instr. psychol, Northwestern, 53, res. assoc, 53-54; instr. med. psychol, col. med, Nebraska, 54-56; staff psychologist, Vet. Admin. Hosp, Salisbury, N.C, 56-57; assoc. res. scientist, ment. health res. unit, Syracuse, 56-60; assoc. prof. psychol, Miami (Fla), 60-63; CHIEF MANPOWER & ANAL. STUDIES BR, NAT. INST. MENT. HEALTH, 63- Fel, inst. soc. geront, Michigan, 58; lectr, U.S. Dept. Agr. Grad. Sch, 66- Intern, Vet. Admin. Hosp, Downey, Ill, 53-54. Consult, Commun. Res. Inst. of St. Thomas, 60-62; Nat. Naval Med. Center, U.S. Naval Hosp, Bethesda, Md, 64-; grad. coun, George Washington Univ, 66- U.S.N.R, 44-46, Lt.(jg). AAAS; Psychonomic Soc. Psychopathology; aging process; mental health manpower. Publ: Co-ed, Manpower and mental health, Aldine, 68; auth, Adult age differences in performance on a visual-spatial task of stimulus generalization, J. Ed. Psychol; Concepts of aging; In: Psychopathology of aging. Address: Manpower & Analytical Studies Branch, National Institute of Mental Health, 5454 Wisconsin Ave, Chevy Chase, Md. 20203.

ARNOLD, DR. DAVID BROOKS, b. Boston, Mass, Oct. 26, 35; m. 58; c. 2. POLITICAL SCIENCE. A.B, Harvard, 58, Ph.D.(ling, psychol), 62; M.A, California, Berkeley, 60. For. serv. reserve officer, U.S. Info. Agency, 61-63; exec. asst, Woodrow Wilson Nat. Fel. Found, 63-64; dir, Center Int. Studies, Ohio Univ, 64-66; ASSOC. PROF. POLIT. SCI, ANTIOCH COL, 66- Consult. ed. & world affairs, 66- Polit. Sci. Asn; Asn. Asian Studies. Formulation and implementation of American foreign policy. Address: Dept. of Political Science, Antioch College, Yellow Springs, Ohio 45387.

ARNOLD, DR. DAVID O(WEN), b. New York, N.Y, Feb. 2, 38. SOCIOLOGY. A.B, Chicago, 60; M.A, Iowa, 62; Nat. Sci. Found. fel, California, Berkeley, 63-64, Ph.D.(sociol), 66. Lectr. SOCIOL, CALIFORNIA, SANTA BARBARA, 64-65, ASST. PROF, 65- Sociol. Asn; Soc. Study Social Probs. Long-term effects of hallucinogenic drug use. Publ: Social class and marginality, Glendessary, 68; Effects of marihuana, In: Marihuana, Brandon House, 67; co-auth, Facilitation effect of social environment, Pub. Opinion Quart, fall 64. Address: Dept. of Sociology, University of California, Santa Barbara, Calif. 93106.

ARNOLD, PROF. DWIGHT LESTER, b. Sweet Home, Ore, July 19, 99; m. 29; c. 2. EDUCATIONAL & GUIDANCE PSYCHOLOGY. A.B, Otterbein Col, 27; M.A, Ohio State, 32, Ph.D, 38. Teacher, high schs, Ohio, 28-34; asst. ed. res, Ohio State, 34-35; dir. guid. res, Ohio Bd. Ed, Lakewood, 35-42, Youngstown, 42-47; dir. guid. testing, KENT STATE, 47-60, head counsr. ed, 47-62, prof. ED, 47-66, EMER. PROF, 66- Res. specialist, UNESCO, dept. ed, Govt. Hong Kong, 62-63; Fulbright lectr, U.S. Ed. Found. in India, 67-68. Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Psychol. Asn; Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv. Educational research; achievement testing. Publ: Counselors evaluate preparation, Personnel & Guid. J; Qualification of a counselor, In: Studies in higher education; Counselor education as responsible self development, Counsr. Ed. & Supv, summer 62. Address: 1225 Fairview Dr, Kent, Ohio 44240.

ARNOLD, PROF. FRANK C(OPELAND), b. Hillsboro, Ohio, Oct. 31, 18; m. 45; c. 3. PSYCHOLOGY. B.Sc, Ohio State, 42, M.A, 45; Ph.D.(psychol), Syracuse, 51. Teacher, high sch, Ohio, 42-43; asst. psychologist, Ohio Boy's Indust. Sch, 43-45; spec. teacher & counsr, Onondoga County Detention Home, 45-46; psychometrist, Syracuse Psychol. Serv. Center, N.Y, 46; supvr. ment. hyg. clin, Syracuse Univ, 47-48; asst. prof. PSYCHOL, BOWLING GREEN STATE, 48-54, PROF. & DIR. COUNSELING CENTER, 55- Psychol. Asn. Testing; counseling. Address: Dept. of Psychology, Bowling Green State University, Bowling Green, Ohio 43402.

ARNOLD, DR. JACK B(OYER), b. Kansas City, Mo, Dec. 28, 29; m. 62; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, San Francisco State Col, 55; Ph.D. (psychol), California, Berkeley, 63. Res. asst. psychiat, Mt. Zion Hosp, San Francisco, 58-62; sr. res. analyst, Kaiser Res. Found, San Francisco, 62-63; ASST. PROF. PSYCHOL, ST. MARY'S COL.(CALIF), 63- Consult, div. res, Mendocino State Hosp, Talmage, 65- U.S.A, 48-49, 51-52, Res, 52-53, Sgt. AAAS; Psychol. Asn. Thinking; learning; perception; measurement. Publ: Co-auth, Effect of professional training on clinical case description, Human Rels, 60; Stability of meaning in clinical case description, J. Abnorm. & Soc. Psychol, 62. Address: Dept. of Psychology, St. Mary's College of California, St. Mary's College, Calif. 94575.

ARNOLD, JAMES A, JR, Pub. Finance, see 10th ed, Soc. & Behav. Vols.

ARNOLD, JULEAN, Econ, see 10th ed, Soc. & Behav. Vols.

ARNOLD, LEONARD, b. Worcester, Mass, Feb. 17, 17; m. 48; c. 2. ECONOMICS. A.B, Clark, 38, M.A, 39. Indust. rels, consult, Nat. Asn. Cotton Mfrs. & North. Textile Asn, 52-58; corp. mgr. employee rels, Rheem Mfg. Co, 58-60; PERSONNEL & INDUST. RELS. MGR, N.Y. POST, 61- Instr, eve. sch, Northeastern, 53-57. Indust. rels. consult, 60-61. U.S.N.R, 42-45. Indust. Rels. Res. Asn; Econ. Asn. Industrial relations. Address: 2 Brook Lane, Pleasantville, N.Y. 10570.

ARNOLD, PROF. MAGDA B(LONDIAU), b. Mahr-Trubau, Czech, Dec. 22, 03; nat; div; c. 3. PSYCHOLOGY. B.A, Toronto, 39, M.A, 40, Dunlap scholar, 40-41, Ph.D.(psychol), 42; hon. LL.D, St. Mary's Col.(Calif), 60. Instr. psychol, Toronto, 42-43, lectr, 43-47; vis. lectr, Wellesley Col, 47-48; assoc. prof. & head dept, Bryn Mawr Col, 48-50; prof. & head dept, Barat Col, 50-52; Putnam adv. res. fel, Radcliffe Col, 52-54; PROF. PSYCHOL, LOYOLA (ILL), 54- Guggenheim fel, 57-58; Fulbright fel, 62-63. Psychol. Asn. Emotion; personality; neuropsychology. Publ: Emotion and personality; Story sequence analysis; co-auth, Human person. Address: Dept. of Psychology, Loyola University, 6525 N. Sheridan Rd, Chicago, Ill. 60626.

ARNOLD, DR. MARY M(ACDUFF), b. San Francisco, Calif, Dec. 28, 18; m. 47. PSYCHOLOGY. Ph.D.(psychol), California, Los Angeles, 45. Res. assoc, Cmn. Community Interrels, New York, 45; voc. counsr, U.S. Vet. Admin, California, Los Angeles, 46; ASST. PROF. PSYCHOL, NEBRASKA, 46- Psychol. Asn. Airsickness; motivation and retention; early factors affecting adult personality. Address: Dept. of Psychology, University of Nebraska, Lincoln, Nebr. 68508.

ARNOLD, DR. WILLIAM E, Commun, Soc. Psychol, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

ARNOLD, PROF. W(ILLIAM) J(ARVE), b. Gainesville, Tex, June 5, 18; m. 47; c. 1. PSYCHOLOGY. B.A, Okla. Agr. & Mech. Col, 40; M.A, Nebraska, 42; Ph.D.(psychol), Yale, 46. Asst. prof. PSYCHOL, NEBRASKA, 45-52, assoc. prof, 52-56, PROF, 56- AAAS; fel. Psychol. Asn. Learning theory; comparative and physiological psychology. Publ: Integration of response chains: Formation of learning sets; Behavioral effects of head irradiation. Address: Dept. of Psychology, University of Nebraska, Lincoln, Nebr. 68508.

ARNOLD, W(ILLIAM) J(EROME), b. Bristol, Conn, May 29, 11. BUSINESS MANAGEMENT. B.S, Trinity Col.(Conn), 34; Terry fel, Harvard, 34-35, A.M, 35; Boston, 35-36; Columbia, 49. Supvry. asst. res, U.S. Off. Ed, 36; instr. econ, govt. & hist, Vt. State Teachers Col.(Castleton), 36-42, dir. publicity, 41-42; asst. personnel mgr, B.H. Aircraft Co, N.Y, 43; asst, personnel dept, Firestone Tire & Rubber Co, Ohio, 43-44; sr. asst. personnel res, West. Elec. Co, N.J, 44-49; asst. prof. indust. rels, Rutgers, 49-55, chmn. dept. mgt, 52-55; assoc. prof. mgt. & v.chmn. div. bus, in charge eve. prog, Hofstra Col, 55-58; consult, Japan Productivity Center Tokyo, 58-59; mgt. ed, Bus. Week, McGraw-Hill Pub. Co, Inc, 59-66; MANAGING ED, CONF. BD. RECORD, NAT. INDUST. CONF. BD, 66- Consult, Asian Productivity Orgn, Tokyo, Japan, 65. Assoc. univ. seminar on orgn. & mgt. in dynamic soc, Columbia Univ, 63-; mem. adv. bd, Mgt. Info. Guide Series, Gale Res. Co, Detroit, 63- Indust. Rels. Res. Asn; Acad. Mgt. Organization theory; management philosophy and practice; executive development; history of management. Publ: Milestones of management, McGraw, 64, 65; Doctors of business, then and now, Japan Mgt; Japanese management rates itself, J. Acad. Mgt. Address: The Record, National Industrial Conference Board, 845 Third Ave, New York, N.Y. 10022.

ARNOLD, DR. WILLIAM R(OBERT), b. Salina, Kans, May 4, 33; m. 55; c. 3. SOCIOLOGY. A.B, Kansas, 55; Woodrow Wilson fel. & M.A, Illinois, 56; Danforth fel. & Ph.D.(sociol), Chicago, 63. ASST. PROF. SOCIOL, Hanover Col, 60-63; TEXAS, AUSTIN 63- Dir, Nat. Inst. Ment. Health res. grant, 64-65; dir. res. isolated aged, Community Coun. Austin & Travis County. Mil. Police, U.S.A.R, 55-65, Capt. Nat. Coun. Crime & Delinquency; Sociol. Asn; Soc. Study Social Probs; Soc. Relig. in Higher Ed. Social psychology; criminology and juvenile delinquency; collective behavior. Publ: A functional theory of recidivism, J. Criminal Law & Criminol. & Police Sci, 6/65; Continuities in research: scaling delinquent behavior, Soc. Probs, summer 65; The concept of gang, Sociol. Quart, winter 66. Address: 3001 Skylark, Austin, Tex. 78757.

ARNOLDS-PATRON, PAUL, b. Duesseldorf, Germany, May 27, 99; nat; m. 24; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.S, N.Y. Univ, 36, M.B.A, 37. Asst. prof. econ. & mgt, Tex. Tech. Col, 42-46; assoc. prof. econ, Centre Col, 46-48; econ. & bus. admin, Whitman Col, 48-51; teaching fel. econ, N.Y. Univ, 51-52; prof. econ. & head dept. bus. admin, Col. of Ozarks, 52-53; head dept. econ. & bus. admin, Inter-Am. Univ. P.R, 54; assoc. prof. econ. & bus. admin, Fla. South. Col, 54-66; RETIRED. Econ. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci; Royal Econ. Soc. Money and banking. Address: P.O. Box 2412, Lakeland, Fla. 33803.

ARNOTT, MARGARET L, b. St. Louis, Mo. ETHNOLOGY, CULTURAL ANTHROPOLOGY. B.A, Harris Teachers Col, 31; M.A, Hartford Sem. Found, 53; cert. polit, Oxford, 48; dipl. Greek culture, Nat. Univ. Athens, 54. Teacher Eng. & soc. sci, Kemper Hall, 33-43; off. worker, Int. Grenfell Asn, 43-45; case worker, Juvenile Protective Asn, 45-46; teacher Eng. as second lang. Anatolia Col, Greece, 46-49; Eng, Kemper Hall, 49-51; Eng. as second lang, Greek-Hellenic Inst, Athens, 53-57; specialist, Houghton Library, Harvard, 57-58; instr. Eng. as second lang, N.Y. Univ, 58-59; PENNSYLVANIA, 59-68, RES. ASSOC. ANTHROP, 68-; LECTR. ENG. AS SECOND LANG, PHILA. COL. TEXTILES & SCI, 67- Am. Coun. Learned Socs. summer travel grant, 60; Eng. Speaking Union, summer scholar, 66. Mem, Int. Cmn. Res. Human Nutrit. Fel. Anthrop. Asn; Folklore Soc; Ethnol. Soc; Soc. Sci. Study Relig; Nat. Asn. For. Student Affairs. Greek Folk customs of religious holidays, especially Easter; Anastenaria; ceremonial breads. Publ: Bread for the dead, Actes du VI^{e} Cong. Int. Sci. Anthropologiques et Ethnologiques, Paris, 2: 135-139; Easter eggs and Easter breads of southeastern Pennsylvania, Expedition, spring 61; Report, working section 10 of the 6th International Congress of Anthropological and Ethnological Sciences, Current Anthrop, 2: 139. Address: 2032 Latimer St, Philadelphia, Pa. 19103.

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ARNOW, KATHRYN SMUL, b. New York, N.Y, Jan. 7, 18; m. 40; c. 3. POLITICAL SCIENCE. A.B, Columbia, 38, Curtis scholar & A.M, 39. Jr. economist, statist. br, War Prod. Bd, 41-42; indust. econ. sect, Gen. Motors Corp, 43-44; mem. staff, Inter-Univ. Case Prog, 48-53; PASAR proj, Pub. Admin. Clearing House, 54; from sci. prog. analyst to prog. dir. data coord, NAT. SCI. FOUND, 54-63, prog. dir. nat. trends & projections, 63-64, study dir. intersectoral studies & trends & staff assoc. concepts & data coord, 64-66, STAFF ASSOC. CONCEPTS & PROG. ANAL, 66- AAAS; Polit. Sci. Asn; Econ. Asn. United States national government and economic policy; science and public policy. Publ: The attack on the cost of living index, Inter-Univ. Case Prog, 52; Indicators of price and cost change in research and development inputs, Am. Statist. Asn. Proc, 66; National patterns of R&D Resources, 1953-68, Nat. Sci. Found, 67. Address: 2836 Linden Lane, Falls Church, Va. 22042.

ARNS, DR. JOSEPHINE, Counseling, Indust. Psychol, see 10th ed, Soc. & Behav. Vols.

ARNY, PROF. CHARLES W(EAVER), JR, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

ARON, PROF. HARRY, b. Mannheim, Germany, Nov. 2, 23; nat. PSYCHOLOGY. Ph.D.(ed), California, 55. Instr. PSYCHOL, SACRAMENTO STATE COL, 55-56, asst. prof, 56-62, assoc. prof, 63-66, PROF, 67- U.S.A, 43-46. Psychol. Asn. Child and clinical psychology; personality. Address: 2631 Gee St, Sacramento, Calif. 95816.

ARONFREED, DR. EVA, b. Philadelphia, Pa, July 15, 11. POLITICAL SCIENCE. B.F.A, Pennsylvania, 33, A.M, 47, Ph.D.(polit. sci), 58. Ed. & pub. rels. consult, 33-42; assoc. ed, Nat. Orgn. Pub. Health Nurses, 45-46; pub. ed, Phila. City Planning Cmn, 47-54; assoc. ed, Nat. Off. Mgt. Asn, 55-56; ed. & pub. rels. consult, 56-61; asst. prof. polit. sci, Monmouth Col.(N.J), 61-62; asst. prof. polit. sci. & pub. rels. & coordinator info. serv, GLASSBORO STATE COL, 62-64, ASST. PROF. POLIT. SCI, 64- Fels Inst. State & Local Govt. grant, 50-52. Consult, local govt. W.A.C, 42-45; Air Force Res, 49-, Maj. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Public opinion and propaganda, especially municipal public relations. Publ: Public relations as a function of local government in the U.S.A, Int. Union of Local Authorities, 61; The state of public relations in Philadelphia, 4/57 & Understanding municipal public relations, fall 60, Quart. Rev. Pub. Rels. Address: 403 S. Cummings Ave, Glassboro, N.J. 08028.

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ARONOV, DR. BERNARD M(ARTIN), b. Chicago, Ill, Mar. 10, 24; m. 52; c. 4. PSYCHOLOGY. B.S, Illinois, 48; M.A, Loyola (Ill), 53; Ph.D, Florida, 56. From intern to staff psychologist, Chicago State Hosp, Ill, 49-52; asst. psychol, Florida, 52-55; psychol. trainee, Vet. Admin. Regional Off, Fla, 55-56, staff psychologist, Ohio, 56-58; Children's Mem. Hosp, Chicago, Ill, 58-61; supv. child psychologist, Presby-St. Lukes Hosp, 61-65; ASSOC. PROF. PSYCHOL, NORTHEAST. ILL. STATE COL, 65- Lectr, De Paul, 59-62; asst. prof, col. med, Illinois, 61-65; staff psychologist, Ill. State Training Sch. for Boys, 52. Consult. psychol, Charles F. Read Ment. Health Zone Center, Chicago, 65- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 65. U.S.A, 43-46. Psychol. Asn. Psychopathology; psychotherapy; child development; parent child relationships; brain dysfunction in children. Publ: Co-auth, Brain damage and behavior, C.C. Thomas, 65; Education and intelligence as influencing variables in the psychopath's Wechsler-Bellevue intelligence test performance, Midwest. Psychol. Asn; Influence of consistent and inconsistent guidance on human learning and transfer, J. Ed. Psychol. Address: Dept. of Psychology, Northeastern Illinois State College, 5500 N. St. Louis Ave, Chicago, Ill. 60625.

ARONOW, WILLIAM A(ARON), b. Philadelphia, Pa, June 25, 24; m. 59. MARKETING, STATISTICS. B.S, Pennsylvania, 49. Marketing res. economist, U.S. Dept. Agr, Wash, D.C, 49-52; sales planning supvr, New Holland Machine Co, Pa, 52-53; res. dir, S.W. Wilkerson, Inc, 54-57; mgr. consumer prod. testing, Int. Latex Corp, 57-62; MKT. RES. MGT, INT. PLAYTEX CORP, 62- U.S.A.A.F, 43-46. Statist. Asn; Mkt. Asn. Application of theory of experimental statistics to marketing problems; development of inexpensive techniques for obtaining valid and reliable primary data necessary to the solution of business problems. Publ: Prepackaging tomatoes, Mkt. Res. Rep, U.S. Dept. Agr. Address: 382 Central Park W, New York, N.Y. 10025.

ARONS, DR. LEON, b. Philadelphia, Pa, Dec. 6, 07; m. 42; c. 2. PSYCHOLOGY. B.A, Ohio State, 27; M.A, Pennsylvania, 29, fel. & Ph.D.(psychol), 32. Researcher & consult, 32-42; v.pres. & dir. res, William H. Weintraub & Co, 46-55; from dir. to V.PRES. RES, TV BUR. ADVERT, 55- U.S.N.R, 42-46, Lt. Comdr. Psychol. Asn; Mkt. Asn; Statist. Asn. Advertising media. Publ: Co-auth. & co-ed, Television and human behavior, Appleton, 63. Address: Dept. of Research, Television Bureau of Advertising, 1 Rockefeller Plaza, New York, N.Y. 10020.

ARONSON, PROF. ELLIOT, b. Chelsea, Mass, Jan. 9, 32; m. 54; c. 4. SOCIAL PSYCHOLOGY. B.A, Brandeis, 54; M.A, Wesleyan, 56; Newhouse fel, Stanford, 56-58, Gen. Elec. Co. fel, 58-59, Ph.D.(psychol), 59. Lectr. soc. psychol, Harvard, 59-62; assoc. prof. psychol. & co-dir. lab. soc. rels, Minnesota, Minneapolis, 62-64, prof. psychol, 64-65; PROF. PSYCHOL. & DIR. SOC. PSYCHOL. PROG, TEXAS, 65- Vis. fel, Center Adv. Study in Behav. Sci, Stanford, 65-66; Nat. Sci. Found. & Nat. Inst. Ment. Health res. grants. Consult, Gen. Elec. Co, 59. Co-ed, Bobbs-Merrill Reprint Series in Psychol, 60- AAAS; fel. Psychol. Asn. Social influence; mass communication. Publ: Co-auth, Handbook of social psychology, Addison-Wesley, 68; Effect of

severity on initiation of liking for a group, 59 & Gain and loss of esteem as determinants of interpersonal attractiveness, 65, J. Exp. Soc. Psychol. Address: Dept. of Psychology, University of Texas, Austin, Tex. 78712.

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ARONSON, DR. LEONARD J(ONAH), b. New Britain, Conn, Dec. 10, 30; m. 57; c. 1. CLINICAL PSYCHOLOGY. B.A, Yeshiva, 52; M.A, Columbia, 53, Ph.D. (clin. psychol), 57. Staff clin. psychologist, Vet. Admin. Hosp, New York, 57-59; fel, Postgrad. Center Psychother, 59-63; psychologist, Mid-Nassau Community Guid. Center, Hicksville, N.Y, 63-66; CHIEF PSYCHOLOGIST, SOUTHEAST NASSAU GUID. CENTER, SEAFORD, 66- Lectr, Hunter Col, 58-59; adj. asst. prof, Long Island, 61-62; assoc. prof, N.Y. Inst. Tech, Inc, 67- Psychotherapist, N.Y. Neuropsychiat. Center, 58-63; Univ. Consultation & Treatment Center, Bronx, 59-63. Private practice, 58- Dipl, Am. Bd. Exam. Prfnl. Psychol, 63. Psychol. Asn. Personality theory; practice and theory of individual and group psychotherapy and psychological testing with adults, adolescents and children. Publ: Self-distortion and distortion of others, Dissertation Abstracts. Address: 2 Otsego Place, Jericho, L.I, N.Y. 11753.

ARONSON, DR. MANUEL, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

ARONSON, DR. MARVIN L, b. New York, N.Y, May 3, 25; m. 48; c. 2. PSYCHOLOGY. B.A, Columbia, 46, M.A, 47; Ph.D, Michigan, 50. DIR. PSYCHOL. SERVS, N.J. CENTER PSYCHOTHER, 61-; ASSOC. DIR, GROUP THER. CLIN, POSTGRAD. CENT. MENT. HEALTH, NEW YORK, 62- Lectr, N.Y. State Narcotics Control Cmn, 67- Supv. psychologist, Postgrad. Center Psychother, 52-; private practice, 54-; coordinator, group ther. training, Ment. Health Inst, Inc, 61-; Consult, Vet. Admin. Hosps, Brooklyn, 65-, New York, 66-67; Mt. Vernon, N.Y. Sch. Syst, 66-67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 55. Fel. Psychol. Asn; Group Psychother. Asn; Acad. Psychother. Psychoanalytic theory; theory and technique of individual and group psychotherapy; techniques of training professional psychotherapists. Publ: Technical problems in combined therapy, Int. J. Group Psychother, 64; Organization of conjoint group psychotherapy in mental hygiene clinics, Psychiat. Quart. Suppl, 64; Resistance in individual and group psychotherapy, Am. J. Psychother, 67. Address: 124 E. 28th St, New York, N.Y. 10016.

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ARROW, PROF. KENNETH J, b. New York, N.Y, Aug. 23, 21; m. 47. ECONOMETRICS. B.S, City Col. New York, 40; M.A, Columbia, 41, Ph.D.(econ), 51; LL.D, Chicago, 67. Res. assoc, Cowles Cmn. Res. Econ, 47-49; asst. prof. econ, Chicago, 48-49; asst. prof. econ. & statist, Stanford, 49-50, assoc. prof, 50-53, PROF. ECON, 53-68, HARVARD, 68- Fel, Center Adv. Study Behav. Sci, 56-57; Yrjö Johannson Lectr, Helsinki, 63; fel. Churchill Col, Cambridge, 63-64. Consult, Rand Corp. Economist, Coun. Econ. Adv, 62. Clark medal, 57. U.S.A, 42-46, Capt. Econ. Asn; fel. Statist. Asn; fel. Economet. Soc.(pres, 56); Inst. Mgt. Sci.(pres-elect, 62, pres, 63); fel. Am. Acad. Arts & Sci; fel. Inst. Math. Statist. Theory of social choice; static and dynamic aspects of optimal allocation of resources; existence of equilibrium in a competitive economy. Publ: Social choice and individual values; An extension of the basic theorems of classical welfare economics, Proc. Berkeley Symp. Math. Statist. & Probability; Discounting and public investment criteria, In: Water research, Johns Hopkins, 66. Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

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ARTH, MAURICE P(HILLIP), b. Redlands, Calif, Feb. 12, 22; m. 38; c. 6. ECONOMICS, POLITICAL SCIENCE. A.B, Harvard, 47, M.B.A, 49; Nat. War Col, 55. Scandinavian area chief, off. spec. rep, Econ. Coop. Admin, France, 49-50, prog. officer, U.S. Mission to Austria, 50-51; int. economist, off. dir. mutual security, Exec. Off. President, 51-53; dir, mil. progs. div, For. Opers. Admin, D.C, 53-55; dep. dir, U.S. Opers. Mission to Yugoslavia, Int. Coop. Admin, 55-57, Iran, 57-58; dir. higher ed. serv. & assoc. dir. pub. admin. serv, Booz, Allen & Hamilton, 58-63; plans coord. div, Standard Oil Co.(N.J), 63-65, corp. planning div, Esso Res. & Eng. Co, 65-67, mgr. Latin Am. & int. finance div, treasurer's dept, Standard Oil Co.(N.J), 67; V.PRES, BOOZ, ALLEN & HAMILTON, 67- U.S.A, 44-45, U.S.A.A.F, 45. Econ. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Public administration; educational administration; health and medical administration; religious administration; general institutional management. Publ: Federal transport regulatory policy,

J. Am. Econ. Asn, 5/62. Address: Booz, Allen & Hamilton, 245 Park Ave, New York, N.Y. 10017.

ARTHUR, DR. ARTUR ZYLINSKI, b. Alytus, Lithuania, June 10, 27; m. 60; c. 2. PSYCHOLOGY. B.Sc, London, 50, B.A, 58, dipl, 59, Ph.D.(psychol), 63. Asst. master eng, private prep. sch, 50; off. asst, Schweppes Ltd, 51-53, officer, 54-57; asst. lectr. PSYCHOL, inst. psychiat, Univ. London, 59-62, exten. dept, 60-62; lectr, Canterbury, 63-66; ASSOC. PROF, QUEEN'S (ONT), 66- Clin. psychologist, Royal Bethlem & Maudsley Hosps, London, Eng, 59-62. Market research consult, 60-61. Polish Forces, 44-46. Am. Psychol. Asn; Can. Psychol. Asn; Brit. Psychol. Soc. Word association and meaning in normals and psychiatric patients; method in clinical psychology. Publ: A decision-making approach to psychological assessment in the clinic, J. Consult. Psychol, 66; Response bias in the semantic differential, Brit. J. Soc. & Clin. Psychol, 66; co-auth, Extreme response bias and associative commonality, Psychonomic Sci, 66. Address: Dept. of Psychology, Queen's University, Kingston, Ont, Can.

ARTHUR, DR. BETTIE, b. Detroit, Mich, Oct. 5, 24. CLINICAL & CHILD PSYCHOLOGY. B.S, Wayne State, 47, M.A, 51; M.S, Michigan, 53, Ph.D, 58. Clin. psychologist, univ. hosp, MICHIGAN, 57-58, ASST. CHIEF PSYCHOLOGIST, CHILDREN'S PSYCHIAT. HOSP, 58-, ASSOC. PROF. PSYCHOL. & PSYCHIAT, UNIV, 68-, asst. prof, 62-68. Psychol. Asn; Soc. Res. Child Develop; Orthopsychiat. Asn. Dynamics of ulcerative colitis in children; effects of bereavement on personality development; counter transference. Publ: The forced confabulation technique: an extension of the Rorschach method for use with children, In: Psychological test modifications, C.C. Thomas, 65; Role perceptions of children with ulcerative colitis, Arch. Gen. Psychiat, 8: 536-45, 63; co-auth, Bereavement in childhood, J. Child Psychol. & Psychiat, 5: 37-49, 64. Address: Children's Psychiatric Hospital, University of Michigan, Ann Arbor, Mich. 48105.

ARTHUR, PROF. HENRY B(RADFORD), b. Gloversville, N.Y, Apr. 24, 04; m. 31; c. 2. ECONOMICS. A.B, Union (N.Y), 26, LL.D, 52; M.A, Harvard, 31, Ph.D.(econ), 35. With Harvard Econ. Soc, 28-33; U.S. Govt, 33-36; economist & mgr. commercial res, Swift & Co, 36-60; MOFFETT PROF. AGR. & BUS, BUS. SCH, HARVARD, 60- Chief prog. rev. div, Paris Off, Econ. Coop. Admin, 48-49; mem, Int. Coop. Admin. Eval. Mission, Denmark, 53. Consult, Off. Price Admin, 42-45. Trustee, Union Col.(N.Y). Economist, cmt. postwar econ. policy & planning, U.S. House Rep, 46-47; Nat. Wage Stabilization Bd, 50-51. Conf. Bus. Econ.(pres, 58-59); fel. Statist. Asn.(v.pres, 43); Econ. Asn; Farm Econ. Asn; Mkt. Asn. Address: Business School, Harvard University, Boston, Mass. 02163.

ARTHUR, PROF. IRA W, b. DeWitt, Iowa, Oct. 25, 93; m. 35; c. 2. AGRICULTURAL ECONOMICS. B.S, Iowa State Col, 16, M.S, 27; fel, Chicago, 29-30; Ph.D, Minnesota, 39. Instr. animal husb, Georgia, 16-17; private practice, 20-26; instr. acct, Iowa State Col, 26-27, asst. prof. farm mkt, 27-33, assoc. prof. agr. econ, 34-57; sr. agr. economist mkt, U.S. Dept. Agr, 34; prin. economist, Off. Price Admin, 42-43; prof. econ, Iowa State, 57-67; RETIRED. Consult, Off. Price Admin, 42-44, U.S. Dept. Agr, 55-56. U.S.A.A.F, 17-19, 2nd Lt. Econ. Asn; Agr. Econ. Asn. General economics; farm marketing; farm tenure. Publ: Vocational training for rural youth, Nat. Policy Asn. Report; Solving farm rental problems in Iowa & Trends in the hog and pork trade in the United States, Iowa Agr. Exp. Sta. Bull. Address: 2108 Greeley St, Ames, Iowa 50010.

ARTHUR, DR. M(ARY) GRACE, Psychol, see 10th ed, Soc. & Behav. Vols.

ARTHUR, COMDR. RANSOM J(AMES), Psychiat, Epidemiol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

ARTIS, PROF. JAY W, b. Augusta, Wis, Nov. 20, 25; m. 47; c. 2. SOCIOLOGY. B.A, Hamline, 49; fel, Wisconsin, 49-50, Ph.D, 55; M.A, Pa. State, 50. Asst. prof. SOCIOL. & ANTHROP, Vanderbilt, 53-56; MICH. STATE, 56-59, assoc. prof, 59-63, PROF, 63-, ASST. DEAN & DIR. UNDERGRAD. ED, COL. SOC. SCI, 65-, assoc. chmn. dept. sociol. & anthrop, 61-65. U.S.A, 43-46. Sociol. Asn. Social organization. Address: Dept. of Sociology, Michigan State University, East Lansing, Mich. 48823.

ARTIS, DR. RUDOLPH DOUGLAS, b. Eureka, N.C, Aug. 28, 28; m. 56; c. 1. SOCIOLOGY. B.S, Agr. & Tech. State, N.C, 52; M.S, Cornell, 60, Ed.D. (exten. ed, rural sociol), 62. Teacher, high sch, N.C, 52-53; asst. county agent, N.C, Agr. Exten. Serv, 55-59, county agr. agent, 61-62; assoc. prof. soc. sci, Elizabeth City State Col, 62-65; PROF, Barber-Scotia Col, 65-67; SOCIOL. & ADULT ED, A&T STATE, 67- Summer participant, Nat. Sci. Found. Inst. for Col. Sociol. Teachers, Emory, 66. Sociol. Asn; Rural Sociol. Soc. Adult education; generic basis of teenage unemployment. Address: Dept. of Sociology, A&T State University, Greensboro, NC. 27411.

ARTLEY, PROF. A. STERL, b. Liberty, Pa, Jan. 24, 07; m. 33; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Pittsburgh, 32, M.Ed, 34, Ph.D, Pa. State, 42. Teacher, pub. schs, Pa, 28-29; psychol, Stephens Col, 42-46; PROF. ED, MISSOURI, 46- Education; reading comprehension in secondary schools. Publ: Your child learns to read; Research in secondary school reading, Int. Reading Asn, 68; Curriculum foundation new basic readers, Scott, 60-67. Address: Dept. of Education, University of Missouri, 213 Hill Hall, Columbia, Mo. 65201.

ARUNDEL, DR. EDNA, b. Ironton, Ohio, July 27, 97. GEOGRAPHY. B.A, Ohio, 21; M.A, Columbia, 29; Ph.D.(ed), Yale, 42. Dir. county norm. schs, Ohio, 21-27; dean, Rio Grande Col, 27-36; asst. soc. studies, dept. ed, Yale, 36-37; from assoc. prof. to prof. geog. & head dept, North Carolina, Greensboro, 37-60, emer. prof, 60-67; RETIRED. Supvr, Ironton Pub. Schs, 61-67; Cadet Teachers Ohio Univ. Br, 61-67. Asn. Am. Geog; Nat. Coun. Geog. Ed. Evolution of human geography in teacher education. Address: 702 S. Fourth St, Ironton, Ohio 45638.

ASCH, PROF. S(OLOMON) E(LIOT), Psychol, see 10th ed, Soc. & Behav. Vols.

ASCHENBRENNER, DR. JOYCE CATHRYN, b. Salem, Ore, Mar. 24, 31; m. 52. ANTHROPOLOGY. B.A, Newcomb Col, Tulane, 54; M.A, Tulane, 56; Nat. Defense Ed. Act fel, Fulbright fel. & Ph.D.(anthrop), Minnesota, 67. Instr. sociol, Wis. State, River Falls, 65-67; ASST. PROF. FAMILY SOC. SCI, MINNESOTA, MINNEAPOLIS, 67- Am. Philos. Soc. res. grant, 67; assoc. prof, Augsburg Col, 68- Fel. Anthrop. Asn. Kinship and marriage among Muslim societies in the subcontinent; transition to urban life among Chippewa Indians. Publ: Preference for male children in Japanese and American societies, Proc. Minn. Acad. Sci, 63. Address: 1206 Fourth St, S.E, Minneapolis, Minn. 55414.

ASCHER, CHARLES S(TERN), b. New York, N.Y, Apr. 20, 99; m. 21; c. 2. PUBLIC ADMINISTRATION, URBAN PLANNING. A.B, Columbia, 20, LL.B, 21. Secy. & gen. counsel, City Housing Corp, N.Y, 26-31; secy, Pub. Admin. Clearing House, Chicago, Ill, 32-37, assoc. dir, N.Y. Off, 52-55; dir. pub, Pub. Admin. Serv, 33-35; secy. cmt. pub. admin, Soc. Sci. Res. Coun, 35-42; regional rep. of adminstr, Nat. Housing Agency, New York, 42-47, dir. urban develop. div, 45-46; exec. officer, Off. Dir. Gen, UNESCO, Paris, 47-48; prof. polit. sci, Brooklyn Col, 48-69, chmn. dept. polit. sci, col, 48-66, int. rep, inst. pub. admin, 56-69; RETIRED. Dir, Nat. Asn. Housing & Redevelop. Officials, 34-35; lectr, Chicago, 33-36; Syracuse, 36-47; Columbia, 38-41. Consult, Nat. Resources Planning Bd, 37-42; WHO, Geneva, 51. Ed-in-chief, Columbia Law Rev, 21. Mem. cmt. housing res, Soc. Sci. Res. Coun, 49-51; v.pres, Conf. Non-Govt. Orgn, UN, 53-55, pres, 61-63; rep. to UN for Int. Inst. Admin. Sci, Int. Union Local Authorities, Int. Fed. Housing & Planning, Interam. Planning Soc, East. Regional Orgn. Pub. Admin. & Int. Info. Center Local Credit, 49- Soc. Pub. Admin,(pres, 46); Nat. Acad. Pub. Admin; Polit. Sci. Asn; Inst. Planners; Int. Polit. Sci. Asn. Publ: Urban land assembly; Private covenants in urban redevelopment; Program-making in UNESCO, 1946-51. Address: 75 Central Park West, New York, N.Y. 10023.

ASCHER, PROF. ROBERT, b. New York, N.Y, Apr. 28, 31; m. 50. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Queens Col.(N.Y), 54; Nat. Sci. Found. summer fel. & M.A, California, Los Angeles, 59, univ. fel, 59-60, Ph.D, 60. Asst. gen. anthrop, California, Los Angeles, 57-59, instr, exten. div, 58-60; asst. prof. ANTHROP. & ARCHAEOL, CORNELL, 60-63, assoc. prof, 63-66, PROF, 66- U.S.A, 54-56. AAAS; Archaeol. Inst; Soc. Archaeol; Asn. Phys. Anthrop. Theory and method in anthropology and archaeology; biocultural evolution. Publ: Recognizing the emergence of man, Science; Chronological ordering by computer, Am. Anthropologist; The human revolution, The Am. Scientist. Address: Dept. of Anthropology, Cornell University, Ithaca, N.Y. 14850.

ASCHMANN, PROF. H. HOMER, Geog, see 11th ed, Phys. & Biol. Vols.

ASELTINE, PROF. HERSCHEL EDWARD, b. Richford, Vt, Dec. 28, 15; m. 48; c. 3. SOCIOLOGY, BEHAVIORAL SCIENCE. B.A, McMaster, 51, B.D, 52; M.A, Chicago, 55; Ph.D.(sociol), Southern Illinois, 61. Pastor, various churches, 45-56; assoc. secy, Christian Labour Asn. Can, 56-57; asst. prof. sociol, Elmhurst Col, 58-61; lectr, Southern Illinois, 61-63; asst. prof. behav. sci, South Florida, 63-67; PROF. SOCIOL. & CHMN. DEPT, MIDDLE TENN. STATE, 67- R.C.A.F, 40-45, Squadron Leader. Sociol. Asn. Human ecology; social thought and relations. Publ: Co-auth, Church as a social institution, In: Social behavior, McGraw, 67. Address: Dept. of Sociology, Middle Tennessee State University, Murfreesboro, Tenn. 37130.

ASH, DR. FREDERICK ELTON, b. Kansas City, Mo, Nov. 13, 15; m. 40; c. 4. PSYCHOLOGY. B.A, Univ. Kansas City, 37; M.A, Clark, 38; Ph.D, Iowa, 41. Supvr. psychol. servs, State Dept. Soc. Welfare, Iowa, 41-43; chief clin. psychologist, ment. hyg. unit, Vet. Admin. Hosp, Des Moines, Iowa, 46-54, chief psychologist, training unit, VET. ADMIN, 54-57, area chief psychol, St. Paul, Minn, 57-62, chief consult. psychologist, WASH, D.C, 62-66, CHIEF PSYCHOL, ED. & TRAINING, 66- Consult, State Dept. Soc. Welfare, Iowa, 47-54. U.S.N, 43-46, Lt. Psychol. Asn. Development of psychology programs; training of psychologists; administrative psychology; basic and applied research in clinical counseling, social and child psychology. Address: 11922 Stonewood Lane, Rockville, Md. 20852.

ASH, DR. PHILIP, b. New York, N.Y, Feb. 2, 17; m. 45; c. 2. PSYCHOLOGY. B.S, City Col, 38; M.A, American Univ, 49; fel. & Ph.D.(psychol), Pa. State, 40. From occup. analyst to sub-unit chief, div. occup. anal, U.S. Employment Serv, 40-47; from res. fel. to assoc. prof, film res. prog, Pa. State, 47-52; res. consult, Inland Steel Co, 52-55, asst. mgr. indust. rel, 55-57, res. asst. to v.pres, 57-67; PROF. PSYCHOL, ILLINOIS, CHICAGO, 68- Voc. consult, bur. hearings & appeals, Soc. Security Admin, 65- Chmn, Ill. State Psychologist Exam. Cmt, 64- Fel. AAAS; fel. Psychol. Asn; Indust. Rels. Res. Asn. Statistical design; test theory and development; training. Publ: The SRA employee inventory, a statistical analysis, Personnel Psychol; Applications of the case approach in industrial training, Speech Teacher; Implication of the Civil Rights Act of 1964 for psychological assessessment in industry, Am. Psychol, 8/66. Address: Dept. of Psychology, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

ASH, PROF. WILLARD O(SBORNE), Statist, see 11th ed, Phys. & Biol. Vols.

ASH, PROF. WILLIAM D(ANIEL), b. Eugene, Ore, Apr. 15, 25; m. 58; c. 2. MARKETING. B.A, Idaho State Col, 49; M.B.A, Stanford, 53; D.B.A.(mkt), Southern California, 67. Instr. gen. bus, Loyola (Calif), 54-57; PROF. MKT, CALIF. STATE COL. LONG BEACH, 57- Mkt. Asn. Sales contests. Address: Dept. of Marketing, California State College at Long Beach, 6101 E. Seventh St, Long Beach, Calif. 90801.

ASHBAUGH, DR. JAMES G, b. Lawrenceville, Ill, June 24, 28; m. 50; c. 2. GEOGRAPHY. B.A, Cent. Wash. State Col, 50; M.A, Colorado, 53; Ph.D. (geog), California, Los Angeles, 65. Asst. prof. GEOG, Western Illinois, 56-57; instr, PORTLAND STATE COL, 57-59, asst. prof, 59-65, ASSOC. PROF, 65- Asn. Am. Geog; Am. Geog. Soc; Am. Inst. Urban & Regional Affairs. Changes in the form and function of Western European cities; geography of disaster. Address: Dept. of Geography, Portland State College, Box 751, Portland, Ore. 97207.

ASHBROOK, DR. ARTHUR G(ARWOOD), JR, b. Pittsburgh, Pa, Jan. 30, 21. ECONOMICS. B.S, Haverford Col, 41; Ph.D, Mass. Inst. Tech, 47. Asst. prof. econ, Duke, 47-51; economist, U.S. Govt, 51-53; asst. prof. econ, Carnegie Inst. Tech, 53-54; ECONOMIST, U.S. GOVT, 54- Econ. Asn. Economic theory; national wage-price policy; Chinese economy. Publ: Main lines of Chinese communist economic policy, In: An economic profile of mainland China, Joint Econ. Cmt, 2/67. Address: 2925 39th St. N.W, Washington, D.C. 20016.

ASHBURN, PROF. KARL EVERETT, b. Whitesboro, Tex, Nov. 7, 04; m. 33; c. 4. ECONOMICS, FINANCE. B.A, Texas Christian, 26, M.A, 28; fel, Duke, 28-30, Ph.D, 34. Asst. prof. econ, Southern Methodist, 33-37; prof, Tex. Tech. Col, 37-39; prof. econ. & bus. & chmn. dept, Southwestern Louisiana, 39-42; regional chief exam. & placement, U.S. Civil Serv. Cmn, 42-45; dean sch. commerce, McNeese State Col, 52-57; prof. econ. & bus. & chmn. dept, Dallas, 59-64; PROF. ECON. & FINANCE, LOYOLA (LA), 64- Econ. ed, Southwest. Soc. Sci. Quart, 37-39. Econ. Asn. Finance and taxation; economic systems; economic development of the United States. Publ: The changing South; Conservation of natural resources in the United States; Texas cotton control act of 1931-32, Southwest. Hist. Quart. Address: Dept. of Economics and Finance, Loyola University, New Orleans, La. 70118.

ASHBY, DR. JEFFERSON D, b. Blytheville, Ark, Feb. 15, 27; m. 52; c. 5. COUNSELING PSYCHOLOGY. B.S, Southern Illinois, 49, M.S, 50; Ph.D, Pa. State, 56. Asst, child guid. clin, Southern Illinois, 49-50, asst. to dean men, 51; asst. to dir, div. intermediate registrn, PA. STATE, 52-53, asst. dir, 53-56, acting dir, 56, asst. dir. DIV. COUNSELING, 57-63, assoc. dir, 63-66, acting dir, 66-67, DIR, 67- Summer vis. lectr, Southern Illinois, 63. Mem. workshop counseling, Nat. Defense Ed. Act, 59; Pa. State Univ. consult. team, Agency Int. Develop-Univ. Costa Rica, 64-65. U.S.N, 44-46. Psychol. Asn. Psychotherapy; vocational and educational counseling; learning theory. Publ: Co-auth, Recommended curricular change and scholastic performance, J. Counseling Psychol, 65; A comparison of vocationally decided and undecided freshmen, Harvard Studies in Career Develop, 5/65; Personality types and vocational choice: a test of Holland's Theory, Personnel & Guid. J, 9/66. Address: Division of Counseling, Pennsylvania State University, University Park, Pa. 16802.

ASHBY, DR. LOWELL D(eWITT), b. Guide Rock, Nebr, Feb. 14, 14; m. 42; c. 2. ECONOMICS. A.B, Hastings Col, 36; fel, Minnesota, 37-38; A.M, Nebraska, 38; fel, Wisconsin, 40-41, Ph.D, 48; Harvard; Mass. Inst. Tech. Asst. economist, Bd. Invest. & Res, D.C, 42; asst. prof. econ, North Carolina, 47-48, assoc. prof, 48-53, prof, 53-62; proj. dir. regional studies, Off. Econ. Progs, Bus. Defense Serv. Admin, U.S. DEPT. COMMERCE, WASH, D.C, 62-63, dir. regional staff, Off. Indust. Anal, 63-64, ASST. CHIEF, REGIONAL ECON. DIV, OFF. BUS. ECON, 64- Drexel res. prof, 60-61, Ford faculty fel, 61-62. Silver Medal award, U.S. Dept. Commerce, 66. U.S.A.A.F, 42; U.S.N.R, 42-45, Lt. Statist. Asn; Economet. Soc; Econ. Asn; Regional Sci. Asn. Income and employment, measurement and determination; economic growth and development. Publ: Growth patterns in employment by county, 1940-1950 and 1950-1960, 8 vols, U.S. Dept. Commerce, 65; Capitalization of income, In: A dictionary of the social sciences, Free Press of Glencoe, 64; Recent developments in regional data systems, Statist. Reporter, 8/67. Address: Office of Business Economics, U.S. Dept. of Commerce, Washington, D.C. 20230.

ASHBY, PROF. PAUL F(LESHER), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

ASHBY, DR. WILLIAM ROSS, Cybernet, Psychiat, see 11th ed, Phys. & Biol. Vols.

ASHCRAFT, KENNETH B, b. Sterling, Colo, Jan. 5, 13; m. 42; c. 2. PSYCHOLOGY. A.B, Denver, 35, M.A, 38; Columbia, 38-40. Teacher, pub. schs, Colo, 35-38; dir. Hartford Adult Guid. Center, State Dept. Ed, Conn, 40; student personnel, Bridgeport, 40-42; personnel technician, Adj. Gen. Off, U.S. War Dept, 42-43; counsr, Denver Regional Off, Vet. Admin, 46-47, asst. dir. advisement & guid. serv, 47-48, dir, 48-49, spec. asst. to dir, D.C, 49-51; dir. personnel res, Gates Rubber, Co, 51-57; Geophoto Serv, 57-58; asst. dir. guid. serv, Colo. State Dept. Ed, 58-66; PSYCHOLOGIST, UNIV. PARK PSYCHOL. CENTER, 66-; ED. SPECIALIST, REGIONAL VIII, DEPT. HEALTH, ED. & WELFARE, 67- Jr. Col. Workshop fel, 41. Counseling psychologist, 58- Consult, counseling center, Colorado State, 67- Chmn, State Dirs. Testing, 65-66; adminstr, Invitational Conf. Implementing Career Develop. Theory & Res. Through the Curriculum, 66. Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. U.S.A, 43-46, 2nd Lt. Psychol. Asn; Personnel & Guid. Asn. Evaluation of guidance services; interpretation of test results; collection, synthesis and interpretation of occupational data. Address: 2070 S. Cook St, Denver, Colo. 80210.

ASHE, DR. A. J, b. Kenton, Tenn, Nov. 20, 24; m. 46; c. 2. ECONOMICS. B.S.A, Tennessee, 48; M.S.A, Cornell, 49, Ph.D, 51. Mkt. specialist, U.S. Dept. Agr, Cornell, 51-52; commodity analyst, Armour & Co, 52-53, sr. commodity analyst, 53-54, price economist, 54-57; sales & econ. forecaster, Butler Mfg. Co, 57-60; dir. bus. res. dept, B.F. GOODRICH CO, 60-64, assoc. dir. corp. planning, 64-66, DIR. BUS. RES. & PLANNING, 66- Mem, Tech. Consult. to Bus. Coun; econ. adv. bd, U.S. Secy. Commerce, 64-, balance of payments adv. cmt. tech. group, 65-; bd. dirs, Univ. Akron, 67-; discussion group indust. economists, bus. sch, Harvard, 68- U.S.N, 43-45, Lt.(jg). Econ. Asn; Nat. Asn. Bus. Econ; Mkt. Asn; Mgt. Asn; Conf. Bus. Econ. Planning; short and long range forecasting of general economic and business conditions; supply, demand and price analysis; analysis of competition; long-range planning; investment proposals; plant location studies; acquisitions. Address: 2319 Chatham Rd, Akron, Ohio 44313.

ASHER, PROF. E(STON) J(ACKSON), JR, b. Lexington, Ky, June 27, 24; m. 52; c. 1. PSYCHOLOGY. B.S, Kentucky, 49; M.S, Purdue, 50, Ph.D.(psychol), 54. Instr. PSYCHOL, Ore. State Col, 51-54; from asst. prof. to PROF, WESTERN MICHIGAN, 54-, DIR. INST. RES, 66- U.S.A.A.F, 43-46, Lt. Psychol. Asn. Industrial psychology; experimental design and statistics. Address: Office of Institutional Research, Western Michigan University, Kalamazoo, Mich. 49001.

ASHER, PROF. E(STON) J(ACKSON), SR, b. London, Ky, June 25, 01; m. 22; c. 4. PSYCHOLOGY. A.B, Kentucky, 23, A.M, 24; Ohio State, 35-36. Instr. PSYCHOL, Texas, 24-28; Kentucky, 28-29, asst. prof, 29-37, assoc. prof, 37-45; PURDUE, 45-48, PROF, 48-, head dept, 54-64. Psychologist, bur. home econ, U.S. Dept. Agr, 31. Consult, U.S. Pub. Health Serv, 39; Vet. Admin, 59. Fel. Psychol. Asn. Mental measurements; theoretical and experimental psychology. Publ: Co-auth, Introduction to general psychology; Experimental investigation of 'label avoidance' as a manifestation of repression, J. Proj. Tech; auth, Inadequacy of current intelligence tests for testing Kentucky mountain children, J. Gen. Psychol. Address: Dept. of Psychology, Purdue University, Lafayette, Ind. 47907.

ASHER, PROF. EUGENE L, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ASHER, DR. HAROLD, b. Chicago, Ill, Aug. 9, 23; m; c. 3. ECONOMICS. B.A, Illinois, 48; Ph.D.(econ, math), Ohio State, 56. Anal. statistician, air mat. command, U.S. Dept. Air Force, 51-52; economist, Rand Corp, 52-56; radioplane div, Northrop Corp, 56-57; mgr. econ. anal, tech. mil. planning oper, Gen. Elec. Co, 57-62; dep. asst. secy. defense for prog, Off. Secy. Defense, D.C, 62-65, dep. asst. secy. defense for resource anal, 65-67; MGR. TECH. MIL. PLANNING OPER, CENTER ADV. STUDIES, GEN. ELEC. CO, 67- U.S.A, 43-46. Economet. Soc; Inst. Math. Statist. Mathematical economics and statistics; empirical economic research. Publ: A systems approach to incentive contracting; Impact of defense spending on the economy; Cost-quantity relationships in the airframe industry. Address: Technical Military Planning Operation, Center for Advanced Studies, General Electric Co, 777 14th St, N.W, Washington, D.C. 20005.

ASHER, PROF. JAMES J(OHN), b. Detroit, Mich, Aug. 10, 29; m. 54; c. 1. PSYCHOLOGY. B.A, New Mexico, 51; M.A, Houston, 55, Ph.D.(psychol), 57. Instr. PSYCHOL, Houston, 55-57; asst. prof, SAN JOSE STATE COL, 57-61, assoc. prof, 61-65, PROF, 65- Res. grant, off. res. & eng, U.S. Postal Serv, 60-61; res. grants, off. ed, U.S. Dept. Health, Ed. & Welfare, 60-, 61-63; res. contract, Off. Naval Res, 65-67; summers, training, Washington (Seattle), 62, Defense Lang. Inst, 64, res. fel, Stanford, 65. Consult, Int. Bus. Mach. Corp, 58-60. U.S.A, 51-54. Psychol. Asn. Psychology of language, problem solving and complex human learning. Publ: Demonstration of a new strategy in language learning, a motion picture available, Film library, Univ. California; The learning strategy of the total physical response: a review, Modern Lang. J, 2/66; The Q by Q interview, Unpublished Monogr, 67. Address: Dept. of Psychology, San Jose State College, San Jose, Calif. 95114.

ASHER, PROF. JOHN WILLIAM, b. Gary, Ind, Apr. 12, 27; m. 55; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, DePauw, 50; M.S, Purdue, 51, Ph.D.(psychol), 55. Asst. speech, Purdue, 52-54, res. assoc, 54-55, res. analyst psychol, Purdue-Calument Develop. Found, 55-56; res. coordinator coop. res. prog, U.S. Off. Ed, 56-60; assoc. prof. ed, Pittsburgh, 60-64, PROF, 64-66; ED. & PSYCHOL, PURDUE, 66- Adj. prof, American Univ, 58-60; vis. lectr, Maryland, 59; Int. Bus. Mach. fel, Harvard Comput. Center, 64-65. Field reader, U.S. Off. Ed, 63- Private practice, 61- Consult, div. statist. & res. servs, U.S. Off. Ed, 60-61. U.S.N, 45-46. Fel. AAAS; Ed. Res. Asn; fel. Psychol. Asn. Research design, analysis and measurement of psychology, education and speech; driver training; information retrieval. Publ: Intelligibility tests: a review of their standardization, some experiments and a new test, Speech Monogr; Comment on the relationship between rigidity-flexibility in children and their parents, Child Develop; co-auth, The computer and information retrieval: school law, a case study, Harvard Ed. Rev, 65. Address: Dept. of Education, Purdue University, S. Campus Courts, Lafayette, Ind. 47907.

ASHER, ROBERT ELLER, b. Chicago, Ill, Oct. 18, 10; m. 35; c. 2. ECONOMICS, POLITICAL SCIENCE. Ph.B, Chicago, 32, M.A, 34. With Am. Pub. Welfare Asn. & Fed. Emergency Relief Admin, 34-35; chief procedures & statist. sect, div. women & prfnl. proj, Work Projs. Admin, 35-39; asst. to dep. adminstr, Nat. Youth Admin, 39-42; chief clearance sect, off. civilian supply, War Prod. Bd, 42-43; exec. asst. to chief import div, N.African Econ. Bd, Lend Lease Admin, 43; dep. chief planning & control staff, For. Econ. Admin, 44; staff, displaced persons br, Supreme Hq. Allied Exped. Forces, 44-45; dir. div. procedural coord, UNRRA, 45-46; spec. asst. to chief mission econ. affairs, U.S. Dept. State, Eng, 46-47, dep. chief, U.S. Res. Del. UN Econ. Cmn. for Europe, Switz, 47-49, chief, 49-50, adv. to dir. Off. European Regional Affairs, 50-51, spec. asst. to asst. secy. of state econ. affairs, 51-54; MEM. SR. STAFF FOR. POLICY STUDIES, BROOKINGS INST, 54-Consult, U.S. Dept. State, 62-; UN, 63; U.S. Coun. Econ. Adv, 63-64; U.S. Agency Int. Develop, 64. Mem, Merrill Center for Econ. Conf, 54, 56; chief int. surv. develop. team, Food & Agr. Orgn. UN, 58-59; mem, Presidents Task Force on For. Econ. Policy, 60-61. Econ. Asn; Am. Soc. Int. Law. International relations and development. Publ: Grants, loans & local currencies: their role in foreign aid; co-auth, The United Nations & promotion of the general welfare & development of the emerging countries: an agenda for research. Address: Senior Staff, Brookings Institution, 1775 Massachusetts Ave. N.W, Washington, D.C. 20036.

ASHFORD, PROF. DOUGLAS E(LLIOTT), b. Lockport, N.Y, Aug. 8, 28; m. 55; c. 3. POLITICAL SCIENCE. A.B, Brown, 50; M.A, Oxford, 52; Class of 1883 fel, Princeton, 56-57, Ford Found. fel, 57-59, Ph.D.(polit), 60. Asst. prof. polit. sci, Indiana, 59-62; vis. prof, sch. adv. int. studies, Hopkins, 62-63; fel. center int. studies, CORNELL, 63-64, assoc. prof. POLIT. SCI, 64-67, PROF, 67-, assoc. dir, center int. studies, 65-67. Vis. lectr, Princeton, 59; res. fel, Center Mid. East Studies, Harvard, 61; Soc. Sci. Res. Coun-Am. Coun. Learned Socs. fel, 61-62; lectr, For. Serv. Inst, 65-; Peace Corps, 65- U.S.A.F, 52-55, 1st Lt. Polit. Sci. Asn; Mid. East Inst; African Studies Asn; Soc. Pub. Admin; Soc. Int. Develop. Application of behavioral research to problems of political systems undergoing rapid transition; development of comparative theory amenable to empirical research in new nations. Publ: Political change in Morocco, 61 & Local reform and national development, 67, Princeton; Politics and planning in Morocco and Tunisia, Syracuse, 65. Address: Center for International Studies, Rand Hall, Cornell University, Ithaca, N.Y. 14850.

ASHLEY, E(DWARD) EVERETT, III, b. N.J, Apr. 27, 06; m. 37; c. 2. ECONOMICS. Ph.B, Yale, 29; M.B.A, Harvard, 31. Construct. economist, Tri-Continental Corp, 31-41; consult. economist, Off. Defense Housing Coordinator, 41-42; mem. staff, Nat. Housing Agency, 42-47; dir, construct. & housing div, Housing & Home Finance Agency, 47-50, housing econ. br, 50-54, statist. reports & develop. br, 54-61, dir, statist. reports staff, 61-64, div. prog. eval, 64-66; div. statist. reports & anal, U.S. Dept. Housing & Urban Develop, 66-68; EXEC. ASST, PROG, PLANNING & BUDGETING, HEALTH & WELFARE COUN. METROP. WASH, 68- Lectr, American Univ, 47; Michigan, 60-; Howard, 62- Chmn, Interdept. Cmt. Housing Adequacy Standards, 46- Statist. Asn. Economics of housing demand and supply; housing for the aging and nonwhites; development of local housing data sources. Publ: Co-auth, Our nonwhite population and its housing, Housing & Home Finance Agency, 63; auth, How big is the housing job?, How our older families are housed. Address: 2604 Arlington Blvd, Arlington, Va. 22204.

ASHLEY, PROF. JOHN W(ILLIAM), b. Syracuse, N.Y, May 2, 20; m. 44; c. 2. ECONOMICS. A.B, Stanford, 43, M.B.A, 47; Ph.D.(econ), California, Los Angeles, 58. Instr. ECON, Occidental Col, 53-56; acting asst. prof, California, Los Angeles, 56-57; asst. prof, Cincinnati, 57-62; assoc. prof, Missouri, 62-65; PROF, CALIF. STATE COL. HAYWARD, 65- U.S.N.R, 43-46, Lt.(jg). Econ. Asn. Public regulation of business; industrial organization; price theory; aggregative theory. Publ: Suggestions for improving public utility regulation; Changes in stock prices and changes in earnings and dividends: some empirical results; co-auth, The next fifteen years. Address: Dept. of Economics, California State College at Hayward, 25800 Hillary St, Hayward, Calif. 94542.

ASHLEY, DR. THOMAS J, b. Bell, Calif, Jan. 17, 32; m. 52; c. 4. URBAN DEVELOPMENT & PLANNING. B.A, Fresno State Col, 53; Haynes & Stauffer fels. & Ph.D.(govt), Claremont Grad. Sch, 62. Traffic & planning aide, City of Fresno, 52-53, asst. traffic engr, 53-54, dep. dir. pub. works, 54; asst. prof. polit. sci, Calif. State Col, 61-65, assoc. prof, 66-67; SR. ASSOC. ECON. RES. ASSOCS, 67-, consult, 66-67. Vis. asst. prof, California, Los Angeles, 65-67. Consult. proj. 21, Regional Planning Asn, 64-66. Mem. & chmn, Orange City Planning Cmn, 62-65; mem, Calif. State Planning Adv. Cmt, 63-65. U.S.M.C, 54-58, 1st Lt. Polit. Sci. Asn; Soc. Pub. Admin. Real estate economics; policy development and administration. Publ: Teacher's manual, California government and politics, Prentice-Hall, 65; ed, Dickenson series in California government, 66-67 & co-auth, Executives in California government, 67, Dickenson. Address: Economics Research Associates, Suite 500, 615 S. Flower St, Los Angeles, Calif. 90017.

ASHLEY, DR. WAYNE R(OLLIN), b. Sublette, Ill, Jan. 5, 27; m. 56; c. 3. CLINICAL PSYCHOLOGY. B.A, Knox Col, 50; M.S, Oklahoma, 53, Ph.D, 60. Psychol. intern, Cent. State Hosp, 54-55; staff psychologist, Cerebral Palsy Center, 55-59; sr. psychologist, Cent. State Hosp, 59-64; CLIN. PSYCHOLOGIST, FIVE COUNTY MENT. HEALTH CENTER, BRAHAM, 64- Consult, Goodwill Indust, Okla, 60-; Braham Schs, 67- U.S.A, 45-46. Psychol. Asn. Address: 613 S.W. Third, Cambridge, Minn. 55008.

ASHTON, PROF. DAVID JOHN, b. Somerville, Mass, June 29, 21; m. 43; c. 3. INTERNATIONAL ECONOMICS & FINANCE. B.S, Tufts, 42, M.A, 52, Ph.D. (int. econ. & finance), 59; M.B.A, Boston, 50. Instr. econ, BOSTON, 48-54, asst. prof, 54-59, assoc. prof. BUS. ADMIN, 59-61, PROF, 61- Ford Found. grant, Admin. Leadership Prog, 59-61; vis. lectr, Naval War Col, 64-67, consult, 63-64. Consult, Fed. Reserve Bank of Boston, 58-; U.S. Dept. Commerce, 61-; Ed. Testing Serv, Princeton, N.J, 63-66; Int. Exec. Serv. Corps, 66- Ed, Boston Univ. Bus. Rev, 59-60. Chmn, Int. Bus. Curriculum, 54-; mem. & chmn. cmt. ed, Mass. Governor's Adv. Cmt. on Int. Trade, 65- U.S.N.R, 42-45, Lt. Econ. Asn; Planning Asn; Asn. for Ed. Int. Bus. Foreign economic policy; administrative science; economic development as related to social and cultural change; management development in emerging societies; U.S. business presence in Canada. Publ: New England Manufactures and European Investments, Fed. Reserve Bank of Boston, 63; Meaning of export origin; New England manufacturers export practice and potential. Address: 22 Myrtle St, Winchester, Mass. 01890.

ASHTON, DR. HERBERT, b. Philadelphia, Pa, Jan. 24, 90; m. 27; c. 2. ECONOMICS. A.B, Cornell, 11, C.E, 13; cert, Grenoble, 19; M.A, Harvard, 33, Ph.D.(econ), 36. Instr. econ, Trinity Col.(Conn), 31-32; transportation economist, Interstate Commerce Cmn, 40-42; asst. to dir. rwy. transportation, Off. Defense Transportation, 42-44; asst. dir. res, Indust. Col. Armed Forces, 44-49; dir. transport & utilities div, bur. for. commerce, U.S. Dept. Commerce, 49-57; proj. mgr, comprehensive surv. transport requirements, Govt. Thailand, 58-59; prfnl. lectr, American Univ, part time, 64-66; spec. consult, R.L. Banks & Assoc, 65 & 66; researcher. Consult, R.R, Argentina, 31-33; Ford, Bacon & Davis, New York, 40; Pa. R.R. Co, 34; U.S. Atomic Energy Cmn, 49- C. Eng, U.S.A, 17-19. Econ. Asn; Soc. Traffic & Transportation; Rwy. Eng. Asn; Transportation Res. Forum. Railroad transport, especially in the foreign field; civil engineering. Publ: Railroad costs and volume of traffic, Am. Econ. Rev; Time element in transportation, Proc. Am. Econ. Asn; Recent developments in railroads of Western Europe. Address: 5229 Elliott Rd, Washington, D.C. 20016.

ASKENASY, DR. ALEXANDER R(OBERT), b. Frankfurt, Germany; U.S. citizen. SOCIAL PSYCHOLOGY. B.A, Wisconsin, 50; univ. scholar, Walker fel. & A.M, Princeton, 54; Ph.D.(soc. psychol), Columbia, 62. Asst. instr, Princeton, 52-53; psychologist, U.S. Army Med. Res. Lab, Ft. Knox, Ky, 54-56; res. assoc. psychol, Psychol. Res. Assocs, 56-58; asst. instr, Columbia, 58-59; proj. co-dir. soc. psychol, World Fedn. Ment. Health, 59-62; res. scientist, CENTER RES. SOC. SYSTS, AMERICAN UNIV, 63-67, SR. RES. SCIENTIST, 67-, ASSOC. PROF. RES, UNIV, 63- Lectr, north. Va. center, Univ. Virginia, 64-65. Exec. secy. univ. sem. on contents & methods in soc. sci, Columbia, 57-59. Psychol. Asn; Soc. Psychol. Study Social Issues. Cross-cultural communications; social perception and attitude change; culture and personality. Publ: Attitudes toward mental patients and their rehabilitation: a study of mental health personnel in an Atlantic border state, in Hawaii and in England, World Fedn. Ment. Health, N.Y, 63; co-auth, Resettlement in Latin America: an analysis of 35 cases, Center Res. Soc. Systs, Am. Univ, 67; A study of key communicators in urban Thailand, Soc. Forces, 66. Address: Arlington Towers M-905, Arlington, Va. 22209.

ASKEW, PROF. J(OSEPH) THOMAS, b. Carrollton, Ga, Mar. 15, 03. POLITICAL SCIENCE. Ph.B, Piedmont Col, 24, LL.D, 43; A.M, Georgia, 30; London, 39. Asst. prof, Georgia, 33-35; dean, Armstrong Col, 35-41, pres, 41-43; assoc. prof. POLIT. SCI, GEORGIA, 45-63, PROF, 63-, registr. & dir. admissions, 47-48, asst. to pres, 48-50, dean students, 50-55. Acting dir, Univ. Center, Inc, 56. Ed, Ga. Local Govt. J, 59-60. U.S.N.R, 43-46, Lt. Comdr. Government; American isolation reconsidered; county consolidation. Publ: Co-auth, The government of Georgia. Address: Dept. of Political Science, University of Georgia, Athens, Ga. 30601.

ASKREN, DR. WILLIAM B(LAND), JR, b. Greensburgh, Pa, Apr. 20, 26; m. 53; c. 3. PSYCHOLOGY. A.B, Wittenberg, 48; M.S, Purdue, 49, fel, 50-51, Ph.D.(psychol), 51. Indust. psychologist, A.O. Smith Corp, 51-56; asst. prof. psychol. & dir. indust. psychol. center, N.C. State Col, 56-58; eng. psychologist, U.S. Dept. Air Force, 58-64; assoc. prof. psychol, Wright State, 64-66; RES. PSYCHOLOGIST, U.S. DEPT. AIR FORCE, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. U.S.N, 44-46, Res, 46-, Lt. Comdr. Psychol. Asn; Human Factors Soc. Human factors in system design; human performance quantification, measurement and modeling; reliability of performance. Publ: Co-auth, Review and analysis of personnel subsystem test and evaluation literature, 67 & Mathematical modeling of human performanc mance errors for reliability analysis of systems, 67, Tech. Report, U.S. Dept. Air Force; co-auth, Human resources engineering: a new challenge, Human Factors Soc, 67. Address: 266 Shady Lane, Dayton, Ohio 45432.

ASOFSKY, ABRAHAM A(LLEN), b. New York, N.Y, Dec. 20, 12; m. 38; c. 2. ECONOMICS. A.B, Brooklyn Col, 33; M.B.A, N.Y. Univ, 36. Dist. mgr, Soc. Security Admin, N.Y, 36-46; exec. officer, Vet. Emergency Housing Prog, 46-47; dist. mgr. soc. ins, SOC. SECURITY ADMIN, 47-66, ASST. REGIONAL REP. MGT, 66- Instr, eve. div, Fairleigh Dickinson, 52- Econ. Asn; Soc. Pub. Admin. Social insurance; public relations. Address: 3980 Orloff Ave, Bronx, N.Y. 10463.

ASPATURIAN, PROF. VERNON V(ARAZTAT), b. Armavir, Russia, Feb. 16, 22; nat; m. 48; c. 1. POLITICAL SCIENCE. A.B, California, Los Angeles, 47, Ph.D, 51. From asst. prof. to prof. POLIT. SCI, PA. STATE, 52-65, RES. PROF, & DIR. SLAVIC STUDIES CENTER, 65- Rockefeller award, 56-57; Smith-Mundt vis. prof, grad. inst. int. studies, Geneva, 58-59; vis. prof, sch. adv. int. studies, Hopkins, 61, 62-63; Columbia, 62, 67, summer, 60; California, Los Angeles, 64-65; res. assoc, Wash. Center For. Policy Res, 61, 62-63. Resident consult, Rand Corp, 64-65. Chief, Russian desk, intel. div, psychol. warfare sect, Gen. Hqs, U.S. & UN Command, Japan, 52. Polit. Sci. Asn. International politics and organization; Soviet foreign policy and institutions. Publ: Union republics in Soviet diplomacy; co-auth, Modern political systems: Europe, Prentice-Hall, 63 & 68; auth, The Soviet Union in the world communist system, Hoover Inst, 66. Address: Dept. of Political Science, Pennsylvania State University, University Park, Pa. 16802.

ASPELIN, DR. ARNOLD LYLE, b. Slayton, Minn, Jan. 13, 37; m. 56; c. 2. AGRICULTURAL ECONOMICS, ECONOMICS. B.S, S.Dak. State, 58, M.S, 60; Ph.D.(agr. econ), Nebraska, 65. Asst. agr. mkt, S.Dak. State, 59-60; instr, Nebraska, 60-64; AGR. ECONOMIST, PACKERS & STOCKYARDS ADMIN, U.S. DEPT. AGR, 64- Summer agr. mkt. & policy specialist, Spec. Presidential Mission, U.S. Agr. Rev. Team, Afghanistan, 67. U.S.A.R, Capt. Agr. Econ. Asn; Econ. Asn. Analysis of market structure and price determination in relation to antitrust and trade regulation in the livestock, meat and poultry industries of the United States. Publ: Co-auth, Packer feeding of cattle—its volume and significance, Consumer & Mkt. Serv, U.S. Dept. Agr, 11/66, Agricultural development in Afghanistan with special emphasis on wheat—problems, prospects, and priorities, a report to the royal government of Afghanistan, U.S. Agr. Rev. Team to Afghanistan, Kabul, 7/67 & The broiler industry, an economic study of structure, practices, and problems, Packers & Stockyards Admin, U.S. Dept. Agr, 8/67. Address: 3814 Jay Ave, Alexandria, Va. 22302.

ASPROMONTE, DR. VICTOR A(NTHONY), b. Rochester, N.Y, Mar. 5, 26; m. 53; c. 2. CLINICAL PSYCHOLOGY. B.A, Rochester, 50; M.A, Connecticut, 52; Ph.D, Columbia, 59. CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, CANANDAIGUA, 59- U.S.A.A.F, 44-46, Sgt. Psychol. Asn. Etiology of and therapy in schizophrenia. Address: 21 Hunters Run, Pittsford, N.Y. 14534.

ASSAEL, DR. HENRY, b. Sofia, Bulgaria, Sept. 12, 35; U.S. citizen; m. 61; c. 2. MARKETING, CONSUMER BEHAVIOR. B.A, Harvard, 57; M.B.A, Pennsylvania, 59, Ph.D.(mkt, sociol, mgt), Columbia, 65. Staff researcher, Batten, Barton, Durstine & Osborn, 59-62; asst. prof. MKT, col. bus. admin, St. John's (N.Y), 62-65; sch. bus, Hofstra, 65-66; GRAD. SCH. BUS. ADMIN, N.Y. UNIV, 66-68, ASSOC. PROF, 68- Consult, Bristol-Myers Co, 65-; Chilton Res. Serv, Chilton Pub. Co, 66-; Nat. Broadcasting Co, 67- Adj. Gen.C. & Finance C, U.S.A.R, 58-64, 2nd Lt. Mkt. Asn; Asn. Pub. Opinion Res; Psychomet. Soc. Resolution of conflicts in distributive relationships; relationship between attitudes and subsequent purchasing behavior; development of marketing predictors through application of multivariate statistical techniques. Publ: Educational preparation for positions in advertising management, Asn. Nat. Advertisers, 1/66; co-auth, Advertising performance as a function of print ad characteristics, J. Advert. Res, 6/67; auth, The political role of trade associations in distributive conflict resolution, J. Mkt, 4/68. Address: Dept. of Marketing, New York University Graduate School of Business Administration, 100 Trinity Place, New York, N.Y. 10006.

ASSAFI, DR. NURUDIN A(BDUL-WAHAB), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

ASTIN, DR. ALEXANDER W(ILLIAM), b. Washington, D.C, May 30, 32; m. 56; c. 2. PSYCHOLOGY. A.B, Gettysburg Col, 53; M.A, Maryland, 56, Ph.D. (psychol), 58. Asst. psychol, Maryland, 53-54, 55-56; counseling psychologist, U.S. Vet. Admin, 54-55, 56-57; dep. chief, psychol. serv, U.S. Pub. Health Serv. Hosp, Lexington, Ky, 57-59; asst. chief, psychol. res. unit, U.S. Vet. Admin. Hosp, Baltimore, Md, 59-60; res. assoc, Nat. Merit Scholar. Corp, 60-64, DIR. RES, 64; AM. COUN. ED, 65- Lectr, Kentucky, 59; Northwestern, 61-; fel, Center Adv. Study Behav. Sci, 67-68. Consult, Surgeon Gen. Adv. Cmt. Smoking and Health, 62-63. U.S.P.H.S, 57-59, Sr.

Asst. Scientist. AAAS; fel. Psychol. Asn; Psychomet. Soc; Ed. Res. Asn; Personnel & Guid. Asn.(award outstanding res, 65). Higher education; measurement of college environments; environmental influence on student development; methodology of educational research; influence of social science research on public policy. Publ: Undergraduate institutions and the production of scientist, Science, 7/63; Who goes where to college?, Sci. Res. Assocs, 1/65; The college environment, Am. Coun. Ed, 3/68. Address: 4829 Chevy Chase Blvd, Chevy Chase, Md. 20015.

ASTIN, DR. HELEN S(TAVRIDOU), b. Serras, Greece, Feb. 6, 32; U.S. citizen; m. 56; c. 2. PSYCHOLOGY. B.A, Adelphi Col, 53; M.S, Ohio, 54; Ph.D. (counseling & soc. psychol), Maryland, 57. Clin. psychologist, U.S. Pub. Health Serv. Hosp, 57-59; instr. psychol, Nat. Col. Ed, 61-65; assoc. prof, Gallaudet Col, 65; RES. ASSOC, Nat. Acad. Sci, 65-67; STANFORD, 67- Psychol. Asn; Soc. Res. Child Develop. Educational and career development of men and women; counseling and guidance; human growth and development. Publ: The assessment of empathic ability by means of a situational test, 14: 57-60 & Career development during the high school years, 14: 94-98, J. Counseling Psychol; Personal and environmental factors associated with the participation of women doctorates in the labor force, Personnel & Guid. J, 46: 240-246. Address: 950 Lathrop Place, Stanford, Calif. 94305.

ASTRACHAN, DR. MYRTLE A(RDATH), b. New York, N.Y, Jan. 31, 24; m. 45; c. 2. PSYCHOLOGY. B.A, Indiana, 44; M.A, Columbia, 46; U.S. Pub. Health Serv. fel, 49, 50; Ph.D.(psychol), Yale, 50. Psychologist, Elgin State Hosp, 45-48; clin. psychologist, depts. psychol. & psychiat, Yale, 48-50, res. asst. psychol, child study center, 50-51; chief psychologist, Rosewood State Training Sch, 51-54; clin. psychologist, 55-62; PSYCHOTHERAPIST, BEECH BROOK CHILDREN'S HOME, 62-; CONSULT, DIV. CHILD WELFARE, CUYAHOGA COUNTY, 62- Instr, exten, Tennessee, 55-62. Consult, Oak Ridge Regional Ment. Health Center. AAAS; Psychol. Asn; Asn. Ment. Deficiency. Child psychology; psychotherapy; mental retardation. Publ: Group psychotherapy with mentally retarded female adolescents & adults; The effects of electroconvulsive treatments on mental efficiency. Address: 2700 Colchester Rd, Cleveland Heights, Ohio 44106.

ATCHISON, PROF. CALVIN OGLIN, b. Millry, Ala, Sept. 15, 24; m. 46. PSYCHOLOGY. B.S, Ala. Agr. & Mech. Col, 44; M.A, Columbia, 49; Peabody Col, 55; Ed.D, Indiana, 58. Sch. psychologist, pub. schs, N.C, 49-53; assoc. prof, TENNESSEE STATE, 53-58, PROF. PSYCHOL, 58-, ASST. GRAD. DEAN, 65- Dir. proj. upward bound, Tennessee State, 65-66, proj. to utilize ed. talent, 66-, inst. self study prog, 67-69. Consult, U.S. Off. Ed. res. proj, Grambling Col, 60; Lane Col, 66- U.S.N, 44-46. Psychol. Asn; Soc. Proj. Tech; Coun. Measurement in Ed. Test performance of mental defectives; self concept and behavior; manifest anxiety in college students; animistic tendencies in pre-school children; influence of social and cultural factors. Publ: Use of Wechsler intelligence scale for children on eighty mentally defective Negroes', Am. J. Ment. Deficiency; Value-practive of teachers in Tennessee, Faculty J; Relationships between anxiety and some intellectual and non-intellectual factors of Negro college students, J. Negro Ed, 68. Address: Tennessee Agricultural & Industrial State University, Nashville, Tenn. 37203.

ATEN, DR. JAMES L(EROY), b. Monmouth, Ill, Nov. 9, 31; m. 55; c. 3. SPEECH PATHOLOGY, PSYCHOLOGY. B.A, Redlands, 53, M.A, 56; Ph.D. (speech path), Washington (Seattle), 60. Asst. prof. speech path, speech & hearing clin, San Jose State Col, 59-61, assoc. prof, 63-66; speech pathologist, Vet. Admin. Hosp, Seattle, 61-63; fel. SPEECH PATH, Mayo Grad. Sch. Med, Minnesota, 66-67; ASSOC. PROF, SPEECH & HEARING CLIN, DENVER, 67- Instr, speech & hearing clin, Washington (Seattle), summer 59; San Jose State Col. Faculty res. grant, 63-66. Consult, Sunnyvale Sch. Dist, Calif, 63-65; Cupertino Prog. Learning Disabilities, 65-66; Agnew State Hosp. & Alameda County PACE Prog, 66. U.S.N, 53-55. Speech & Hearing Asn; Acad. Aphasia. Psychological attitudes in stutterers; learning in aphasics; auditory perceptual abilities of children. Publ: Beyond diagnosgenesis, N.Dak.Speech & Hearing J, 61; co-auth, Auditory sequential abilities in children with minimal cerebral dysfunction, J. Speech & Hearing Res, 68. Address: Speech & Hearing Center, University of Denver, Denver, Colo. 80210.

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ATHEY, DR. LOUIS, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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ATKYNS, PROF. GLENN CHADWICK, Hist. of Ed, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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Maine surv, Acad. Ed. Develop, N.Y, 65-66. Trustee, Lane Theol. Sem; McCormick Theol. Sem. Adv, President's Cmt. for White House Conf. Ed, 55; mem, State Dept. Ed. Mission to Surv. Higher Ed. in U.S.S.R. & Satellite Nations, 59; R.O.T.C. Adv. Panel, U.S. Dept. Air Force, 60-; v.chmn, Am. Coun. Ed, 63-64; pres, Herman Muehlstein Found, New York, N.Y, 65- Ed. tours to U.S.S.R, S.Am, Africa, Australia, N.Z. & S.Pac, & Orient, 63-67. Fel. AAAS; Soc. Eng. Ed. University administrative organization; vocational education for Dayton, Ohio public schools; international relations; urban problems. Publ: An American college president takes a second look at Soviet universities, Col. & Univ. Bus, 4/60; Special report on Mongolia, Univ. Akron Alumnus, spring 64; The free world vs. communism, Vital Speeches of the day, 11/64. Address: University of Akron, Akron, Ohio 44304.

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AUERBACH, DR. ARNOLD J, b. New York, N.Y, Aug. 14, 11; m. 35; c. 3. SOCIOLOGY, SOCIAL WORK. B.S, N.Y. Univ, 33; New Sch. Soc. Res, 38-41; M.S.W, Washington (St. Louis), 49; Ph.D.(urban sociol), Pittsburgh, 60. Soc. investr, Dept. Pub. Welfare, New York, 34-42; exec. dir, United Serv. Orgn, 42-43; psychiatric soc. worker, Neuro-Psychiat. U.S. Army Hosp, 44-45; field rep, Joint Distribution Cmt, 45-46; asst. exec, Young Men's & Young Women's Hebrew Asn. St. Louis, 46-49; EXEC. DIR, Jewish Community Centers Denver, Inc, 49-54; YOUNG MEN'S & YOUNG WOMEN'S HEBREW ASN. & IRENE KAUFMANN CENTERS OF PITTSBURGH, 54- Lectr, Shadyside Hosp. Sch. Nursing, 61-67. Consult, dept. sociol, Pittsburgh, 61. Med. Admin.C, U.S.A, Sgt. Fel. Sociol. Asn; Asn. Soc. Workers. Urban sociology and community organization, especially administration theory. Publ: Aspirations of power people and agency goals, Soc. Work, 61; Power and progress in Pittsburgh, Trans-action, 65; The three faces of jove, Nat. Asn. Jewish Center Workers Viewpoints, 67. Address: 2412 Marbury Rd, Pittsburgh, Pa. 15221.

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AUERBACH, DR. HARRY, b. New York, N.Y, Mar. 28, 14; m. 41; c. 2. BIOMETRY, BIOSTATISTICS. B.S, Brooklyn Col, 34; LL.B, St. John's (N.Y), 37, J.S.D, 38; M.P.H, Yale, 49. Mem. lab. staff, Dept. Hosps, New York, 35-42; Greenville Hosp, Pa, 46-48; asst. prof. biostatist, sch. med, Yale, 49-52; statistician, Cmn. on Financing Hosp. Care, 52-54; ASSOC. STATISTICIAN, ARGONNE NAT. LAB, 54- U.S.A, 42-46, Maj. Statist. Asn; fel. Pub. Health Asn; Research Soc. Geographic pathology; epidemiology of cancer; aging. Address: 2134 W. Rosemont Ave, Chicago, Ill. 60645.

AUFRICHT, DR. HANS, b. Vienna, Austria, June 6, 02; nat; m. 32. INTERNATIONAL LAW. Ph.D, Vienna, 26, L.L.D, 37; Carnegie fel, Hague Acad. Int. Law, 35. Lectr. govt. & hist, N.Y. Univ, 41-42, 44-45; instr. Army specialized training prog, Cornell, 43-44; asst. int. orgn. affairs, U.S. Dept. State, 46-47; mem, Int. Monetary Fund, 47-56, counsr, legal dept, 56-67, rep, UN Econ. & Soc. Coun, 58; RES. & WRITING, 67- Rockefeller Found. grants, 45-, 47, 50; lectr, American Univ, 49-52; summer, lectr, Int. Univ. Comp. Sci, Luxembourg, 60. Mem, library cmt, Woodrow Wilson Found, 47-50; World Peace Through Law Center. Polit. Sci. Asn; Am. Soc. Int. Law; Soc. Polit. & Legal Philos; International law; comparative law, especially central bank law; international organization and economics; political theory; methodology of social sciences; diplomatic history. Publ: The International Monetary Fund, 64 & Comparative survey of central bank law, 65, Praeger Central banking legislation, Int. Monetary Fund, 67. Address: 4200 Cathedral Ave, N.W, Washington, D.C. 20016.

AUGELLI, PROF. JOHN, b. Italy, Jan. 30, 21; nat; m. 48; c. 2. GEOGRAPHY. B.A, Clark, 43; M.A, Harvard, 48, Ph.D.(geog), 51. From asst. to assoc. prof. geog, Puerto Rico, 48-52; assoc. prof, Maryland, 52-60, prof, 60-61; PROF. GEOG. & DIR. LATIN AM. AREA CENTER, KANSAS, 61- Consult, Ford Found, 64-65, for. area fel. prog, 65-; Inst. Int. Ed, 65-; Off. Ed, 66- Mem. cmn. geog, Pan. Am. Inst. Geog. & Hist, 64-; joint cmt. Latin Am. studies, Soc. Sci. Res. Coun-Am. Coun. Learned Socs, 65- U.S.A.A.F, 43-46. AAAS; Asn. Am. Geog; Geog. Soc; Latin Am. Studies Asn; Nat. Coun. Geog. Ed. Economic and cultural geography of Latin America; problems of underdeveloped areas; political geography. Publ: Co-auth, Middle America: its lands and peoples, Prentice-Hall, 66; Rimland-mainland concept of culture areas in Middle American, Ann. Asn. Am. Geog, 62; Controversial image of Latin America: a geographer's view, J. Geog, 3/63. Address: 208 Strong Hall, University of Kansas, Lawrence, Kans. 66044.

AULD, PROF. FRANK(LIN), b. Denver, Colo, Aug. 9, 23; m. 46; c. 3. PSYCHOLOGY. B.A, Drew, 46; Ph.D.(psychol), Yale, 50. Fel, Yale, 50-51, instr. PSYCHOL, 50-52, asst. prof, 52-59; assoc. prof, Wayne State, 59-61, PROF, 61-67; DETROIT, 67- Consult, med. res. lab, U.S. Naval Submarine Base, New London, Conn, 53-54. U.S.A, 43-45. Fel. AAAS; Psychol. Asn; Soc. Sci. Study Relig. Psychotherapy; appraisal of personality; learning theory; psychology of thinking. Publ: Co-auth, Steps in psychotherapy, Macmillan, 53; Scoring human motives, Yale, 59; Research in psychotherapy, Am. Psychol. Asn, 68. Address: Dept. of Psychology, University of Detroit, 4001 W. McNichols Rd, Detroit, Mich. 48221.

AULL, PROF. GEORGE H(UBERT), b. Pomaria, S.C, Oct. 16, 99; m. 22; c. 2. AGRICULTURAL ECONOMICS. B.S, Clemson Col, 19; M.S, Virginia, 28; Ph.D.(agr. econ), Wisconsin, 37. Prof. farm mgt, First Dist. Agr. & Mech. Sch, Ga, 19-20; teacher, high sch, S.C, 20-21; asst. dir. res, exp. sta, CLEMSON, 21-33, prof. AGR. ECON. & RURAL SOCIOL. & head dept, 33-63, EMER. PROF, 63- Lectr, Salzburg Summer Seminar Am. Studies, Austria, 66. Sr. admin. officer, land policy sect, agr. adjust. admin, U.S. Dept. Agr, Wash, D.C, 34-36; mem. U.S. Agr. Mission, U.K, 46. Consult, Nat. Resources Planning Bd; consult. economist, S.C. Nat. Bank, 63- Chmn. bd. dirs, Charlotte Br, Fed. Reserve Bank Richmond. U.S. del, Sci. Conf. Conserv. & Utilization of Resources, UN 49. Mem. War Labor Bd; Farm Credit Admin. U.S.A, 17-19. Fel. AAAS; Econ. Asn; fel. Farm Econ. Asn.(v.pres, 45, pres, 51); fel. Royal Soc. Arts; Int. Asn. Agr. Econ. Land tenure; agricultural-industrial relationships; marketing; economic development; international trade; fiscal policy. Publ: King Cotton; Economics of the Bible; Postwar economic outlook in an agricultural-industrial area. Address: 223 N. Clemson Ave, Clemson, S.C. 29631.

AUMACK, DR. LEWIS, b. Baltimore, Md, Nov. 13, 22; m. 46; c. 3. PSYCHOLOGY. A.B, California, 48, M.A, 49, Ph.D.(psychol), 53. Chief psychologist, Utah State Hosp, 53-56; VET. ADMIN. HOSP, Roseburg, Ore, 56-60, Lebanon, Pa, 60-65, SOC. PSYCHOLOGIST, DANVILLE, ILL, 65- U.S.N, 43-46. Psychol. Asn. Test construction; psychosocial-institutional analysis; group therapy. Publ: Co-auth, VA manual of group therapy. Address: 2525 East Rd, Danville, Ill. 61832.

AUMANN, PROF. FRANCIS ROBERT, b. Delaware, Ohio, Jan. 21, 01; m. 45. POLITICAL SCIENCE. A.B, Ohio Wesleyan, 21; Western Reserve, 23-24; A.M, Ohio State, 25; Ph.D, Iowa, 28. Instr. POLIT. SCI, OHIO STATE, 28-32, asst. prof, 32-37, assoc. prof, 37-40, PROF, 40- Vis. prof, Ohio Wesleyan, 46, 53; Iowa, 51-52; Southern Illinois, 58, 60; summer, Wayne State, 47. U.S.N.R, 42-51, Comdr. Polit. Sci. Asn; Judicature Soc. Constitutional law; jurisprudence; judicial administration; state government. Publ: Changing American legal system, Instrumentalities of justice; co-auth, Government and administration of Ohio. Address: Dept. of Political Science, Ohio State University, Columbus, Ohio 43210.

AUN, DR. KARL, b. Vaimastvere, Estonia, May 15, 14; Can. citizen; m. 44; c. 2. POLITICAL SCIENCE. LL.B, Tartu State, 42; Dr. iur, Hamburg, 48; Wisconsin, 51-52; M.A, Chicago, 57. Assoc. judge, Dist. Court Tallinn, Estonia, 42-43; instr. pub. law, Tartu State, 43-44; lectr, Baltic Univ, Germany, 45-49; vis. prof, Rockford Col, 50-51; chief acct, res. insts, Chicago, 53-59; asst. prof. POLIT. SCI, WATERLOO LUTHERAN, 59-62, ASSOC. PROF, 62-, CHMN. DEPT, 66- Legal adv, Int. Refugee Orgn, 48-49; mem. local exec. bd, Can. Inst. Int. Affairs, 61- Am. Polit. Sci. Asn; Can. Polit. Sci. Asn. History of Roman law; problems and protection of national minorities; interest representation; post-war government of Austria and Austrian foreign policy. Publ: Der voelkerrechtliche Schutz nationaler Minderheiten, Heitman, Germany, 51; On the spirit of Estonian minorities' law, Apophoreta Tartuensia, Sweden, 49; The cultural autonomy in Estonia, In: Yearbook of Estonian learned society, 53. Address: Dept. of Political Science, Waterloo Lutheran University, Waterloo, Ont, Can.

AUNE, DR. HENRIK JOAKIM, b. Starbuck, Minn, Oct. 29, 21; m. 48; c. 3. AGRICULTURAL ECONOMICS. B.S, Minnesota, 47, M.S, 53, Ph.D.(agr. econ), 58. Teacher, Rushford City Schs, Minn, 48-51; W.Cent. Sch. & Sta, Minn, 51-53; asst. state supvr. voc. agr, State Dept. Ed, Minn, 53-54; res. assoc. agr. econ, Minnesota, St. Paul, 57-58; asst. prof, Southern Illinois, 58-62; AGR. ECONOMICS, TENN. VALLEY AUTHORITY, 62- Agr. Econ. Asn. Farm management and accounting. Publ: Co-auth, Determining the effect of herd size and equipment on dairy chore labor, J. Farm. Econ, 8/59. Address: F-220 NFDC, Tennessee Valley Authority, Muscle Shoals, Ala. 35660.

AURAY, R(OBERT) R(OY), b. Waterbury, Conn, Nov. 16, 26; m. 50; c. 6. ECONOMICS. A.B, Georgetown, 47, M.A, 49; Columbia, 49-51. Econ. analyst, U.S. Air Force Intel, 51-52; staff economist, Chrysler Corp, 52-60; statistician, AM. TEL. & TEL. CO, 60-63, supvr. statistician, LONG LINES DEPT, 63-65, GEN. BUS. RES. MGR, 65- U.S.A, 44-46. Econ. Asn; Statist. Asn; Asn. Bus. Econ. Economic analysis; economic statistics; business research. Address: 56 W. Saddle River Rd, Waldwick, N.J. 07463.

AURBACH, DR. HERBERT A(LEXANDER), b. Cleveland, Ohio, Aug. 6, 24; m. 52; c. 2. SOCIOLOGY. B.S, Western Reserve, 48; Ph.D.(sociol), Kentucky, 60. Asst. rural sociologist, Miss. State Col, 54-55; asst. prof. & res. assoc. rural sociol, N.C. State Col, 55-57; res. dir. intergroup rels, Pittsburgh Cmn. Human Rels, 57-61; res. assoc. sci. manpower studies, Univ. Pittsburgh, 61-63, Appalachian Regional Study, 63-64, sociol. of ed, 64-66, asst. prof. sociol, 62-66; ASSOC. PROF. ED. & SOCIOL, PA. STATE, 66- Lectr, Univ. Pittsburgh, 57-59; res. assoc. prof, bur. res, Duquesne, 60-61. Dir, Nat. Res. Conf. Am. Indian Ed, 67, assoc. dir, Nat. Study Am. Indian Ed, 68. U.S.A.A.F, 42-45, T/Sgt. Soc. Study Social Probs.(secy-treas, 66-); fel. Sociol. Asn; Soc. Psychol. Study of Social Issues. Study of how teachers and other faculty perceive the future of their schools; national study of the state of American Indian education. Publ: Co-auth, Study of manpower needs in the basic health sciences, Univ. Pittsburgh, 62; The status of housing of Negroes in Pittsburgh, 58 & auth, The status of education of Negroes in Pittsburgh 1963-64, 65, Pittsburgh Cmn. on Human Rels. Address: Dept. of Educational Services & Sociology, Pennsylvania State University, University Park, Pa. 16802.

AUSTEN, DR. RALPH ALBERT, African & Imp. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

AUSTER, PROF. DONALD, b. Port Chester, N.Y, Nov. 1, 22; m. 46; c. 2. SOCIOLOGY. B.A, Hofstra Col, 49; M.A, Columbia, 51; Ph.D, Indiana, 59. Asst. sociol, Indiana, 52-53, assoc. & instr. mass commun, 53-56, assoc. SOCIOL, 56-57; instr, ST. LAWRENCE, 57-59, asst. prof, 59-63, assoc. prof, 63-66, PROF, 67- Res. grants, Am. Petrol. Inst, 62-63 & U.S. Pub. Health Serv, 66-68. U.S.A, 42-45, Sgt. Sociol. Asn; Asn. Pub. Opinion Res. Communications and public opinion; sociology of work; medical sociology. Publ: Content analysis of business and labor films, Soc. Probs; A content analysis of Little Orphan Annie, In: Sociology: progress of a decade; Attitude change and cognitive dissonance, J. Mkt. Res, 11/65. Address: Dept. of Sociology & Anthropology, St. Lawrence University, Canton, N.Y. 13617.

AUSTIN, PROF. ELLIS T, b. U.S, Sept. 25, 15; m; c. 3. ECONOMICS, FINANCE. B.A, Washington (Seattle), 47, fel, 49-50; Ph.D, Mich. State, 55. Instr. econ, Mich. State, 51-52, 54-55; asst. prof, Idaho, 52-54; finance, Pittsburgh, 55-58; assoc. prof. FINANCE, FRESNO STATE COL, 58-63, PROF, 63- Summer fels, grad. sch. bus, N.Y. Univ, 60, Chicago, 61, sch. bus. admin, Harvard, 62. U.S.A.A.F, 43-46, Sgt. Econ. Asn; Finance Asn. Investments, business finance, money and banking; financial management; national income analysis; international trade; business economics; economic principles. Publ: California excise taxes on cigarettes, alcoholic beverages, and horseracing, a major tax study, Part 9, Assembly Interim Cmt. Revenue & Taxation, Calif. Legis, 64; The supply of residential mortgage funds in Fresno County, 1960-64, Bur. Bus. Res, Fresno State Col, 65; National business outlook for 1961, Fresno Facts & Trends. Address: Dept. of Finance & Industry, Fresno State College, Fresno, Calif. 93726.

AUSTIN, DR. RICHARD BUCKNER, JR, b. Dallas, Tex, Dec. 31, 30; m. 53; c. 1. CLINICAL & SOCIAL PSYCHOLOGY. B.B.A, Texas, 54, M.A, 58, Ph.D.(psychol), 60. INSTR. human rels, Del Mar Tech. Sch, 60-61; PSYCHOL. & SOCIOL, DEL MAR COL, 61- Psychologist, Parent-Child Guid. Center, 60-61, consult, 61- Mem. prfnl. adv. cmt. to pub. schs. on handicapped children, 61; consult, St. James Episcopal Sch, 62- Tex. Bd. Exam. rep, Am. Asn. State Psychol. Bds, 66-67. U.S.A.F, 54-55, 1st Lt. Psychol. Asn; Group Psychother. Asn. Use of groups to effect changes in human behavior including discussion, training, and therapy groups. Publ: Effects of alcohol on serial learning under stress conditions, Psychol. Report; Volunteering as a function of induced social forces, J. Soc. Psychol; A psychological educational approach to learning disabilities, In: Ideas for action, Tex. Asn. Children Learning Disabilities, 66. Address: 204 United Savings Bldg, Corpus Christi, Tex. 78411.

AUSTIN, PROF. RONALD L(eROY), b. Oakdale, Pa, Sept. 24, 11; m. 37; c. 2. BUSINESS ADMINISTRATION. B.S, Carnegie Inst. Tech, 34; M.Ed, Pittsburgh, 39; Ed.D.(bus. ed), Indiana, 54. Instr, naval training sch, Indiana, 42-44, asst. chief acct, univ, 45-46; assoc. prof. BUS. ADMIN, HANOVER COL, 46-54, PROF, 54- Cost acct, DK Mfg. Co, Ill, 44-45. Summers, Ford Found. fel, sch. bus, Indiana, 59, Lilly fel, North Carolina, 62. Consult. to comptroller, Jefferson Proving Ground, Madison, Ind, 54-57; consult, Ord. Mgt. Eng. Training Agency, 59. Mkt. Asn; Soc. Automation in Bus. Ed. Sales personnel selection; cost accounting; general business education. Publ: Philosophy for teaching bookkeeping; co-auth, Job order cost accounting, In: Principles of accounting; auth, Understanding the use of complements in office practice, J. Bus. Ed, 4/66. Address: P.O. Box 444, Hanover, Ind. 47243.

AUSTIN, DEAN RUBEN V(ARGAS), b. San Antonio, Tex, July 28, 15; m. 38; c. 3. ECONOMICS. B.A, Dubuque, 36; M.A, Iowa, 40, Ph.D, 58. Teacher, high sch, Iowa, 36-38, dir. guid, jr. high sch, 38-40, teacher, pub. schs, 40-43; head dept. econ. & bus. admin, Dubuque, 46-53; instr. econ, Iowa, 53-54; prof. bus. & econ, Mich. State, 55-57, asst. dean col. bus. & pub. serv. & grad. sch. bus. admin, 58-61; H. RODNEY SHARP PROF. BUS. & ECON. & DEAN COL, DELAWARE, 61- Mayor, Dubuque, Iowa, 53. Consult. & coordinator, Mich. State Univ-Int. Coop. Admin. Progs, Brazil & Vietnam. Hazen Found. award, 52. U.S.N.R, 42-45, Lt. Comdr. Econ. Asn; Acad. Polit. & Soc. Sci. Latin American economic development. Address: 241 Cheltenham Rd, Newark, Del. 19711.

AUSTON, DR. JOHN T, Speech, Res. Methodology, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

AUSTRIN, PROF. HARVEY R, b. New York, N.Y, Nov. 8, 24; m. 48; c. 3. PSYCHOLOGY. Ph.D.(psychol), Ohio State, 50. Clin. psychologist, Columbus State Sch, 50-51; chief clin. psychologist, Indianapolis Vet. Admin. Ment. Hyg. Clin, 51-55; asst. prof. PSYCHOL, Ohio State, 55-57; assoc. prof, Temple, 57-63; PROF. & CLIN. DIR, ST. LOUIS, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol, 57. Psychol. Asn. Methodology of psychological measurement; personality theory; psychotherapeutic methods; behavior problems; delinquency. Address: Dept. of Psychology, St. Louis University, St. Louis, Mo. 63103.

AUSUBEL, DR. DAVID P(AUL), b. Brooklyn, N.Y, Oct. 25, 18; m. 43; c. 2. PSYCHOLOGY. A.B, Pennsylvania, 39; M.A, Columbia, 40, Ph.D.(psychol), 50; M.D, Brandeis, 43. Intern, Gouverneur Hosp, New York, 43-44; resident psychiat, State Hosp, Buffalo, N.Y, 47-48; lectr. psychol. & psychiatrist, Yeshiva, 48-50; prof. ed, Illinois, Urbana, 50-66; PROF. PSYCHOL. & ED, ONT. INST. STUDIES ED, 66-; PROF. ED. THEORY, TORONTO, 66-, med. ed, 66-67. Lectr, Long Island, 48-49. Mem. bd. dirs, Sex Info. & Ed. Coun. U.S, 66- U.S.P.H.S, 45-47, Sr. Asst. Surg. Am. Psychol. Asn; Ed. Res. Asn; Soc. Res. Child Develop; Can. Psychol. Asn. Child and adolescent development; personality theory; cognitive learning. Publ: Psychology of meaningful verbal learning, Grune, 63; Theory and problems of adolescent development; Drug addiction. Address: Apt. 1604, 400 Walmer Rd, Toronto 10, Ont, Can.

AUTEN, PROF. JOHN H, Econ, see 10th ed, Soc. & Behav. Vols.

AUXIER, DR. GEORGE W(ASHINGTON), b. Paintsville, Ky, Nov. 27, 05; m. 42; c. 3. INTERNATIONAL RELATIONS, ECONOMIC HISTORY. A.B, Miami (Ohio), 30, M.A, 34; Ph.D, Ohio State, 38; Nat. War Col, 56-57. Mem. staff, legis. reference serv, Library Cong, 37-40; asst. ed. territorial papers, U.S. Dept. State, 40-42; liaison officer & chief polit. anal, Off. Censorship, 42; mem. gen. staff, War Dept, 42-44; chief policy anal, War Prod. Bd, 44-47; prin. policy analyst, Atomic Energy Cmn, 47; staff dir, Nat. Security Resources Bd, 47-51; exec. secy, Nat. Prod. Authority & Defense Prod. Admin, 51-52; bus. & defense serv. admin, U.S. Dept. Commerce, 53-57; ASST. TO DIR. RESOURCES PLANNING & MOBILIZATION, OFF. EMERGENCY PLANNING, EXEC. OFF. OF PRESIDENT, 57- Lectr, George Washington & American Univ, 45-46. U.S.A, 43-44. Polit. Sci. Asn; Hist. Asn. United States foreign and military policy; industrial mobilization; public opinion. Publ: The propaganda activities of the Cuban Juntas, 1895-1898; Middle western newspapers and the Spanish-American War, 1895-1898. Address: 12315 Fernmont Lane, Silver Spring, Md. 20902.

AVAKIAN, DR. SONIA ASTRID, Psychol, see 10th ed, Soc. & Behav. Vols.

AVAKUMOVIC, PROF. IVAN, b. Belgrade, Yugoslavia, Aug. 22, 26; m. 57. POLITICAL SCIENCE. B.A, Cambridge, 47, M.A, 52; M.A, London, 54; Ph.D, Oxford, 58. Asst. lectr. polit, Aberdeen, 57-58; asst. prof. polit. sci. & int. rels, Manitoba, 58-62, assoc. prof. polit. sci. & int. affairs, 62-63; assoc. prof. POLIT. SCI, BRITISH COLUMBIA, 63-67, PROF, 67- Am. Polit. Sci. Asn; Am. Hist. Asn; Asn. Adv. Slavic Studies; Can. Asn. Slavists; Can. Polit. Sci. Asn; Can. Hist. Asn; Brit. Soc. Study Labour Hist; Polit. Studies Asn. U.K. Publ: Co-auth, Anarchist prince: a biographical study of Peter Kropotkin, Boardman, London & New York, 50; auth, History of the Communist party of Yugoslavia, Vol. I, Aberdeen Univ, 64. Address: Dept. of Political Science, University of British Columbia, Vancouver 8, B.C, Can.

AVERILL, PROF. E(DGAR) W(AITE), b. Syracuse, N.Y, Sept. 2, 06; m. 32; c. 3. STATISTICS. A.B, Cornell, 28; M.B.A, Harvard, 31; Ph.D.(higher ed), Michigan, 63. Statistician, Irving Investment Mgt. Co. & Successors, N.Y, 31-38; Investment Counsel, Inc, Mich, 38-42; CMP analyst, War Prod. Bd, 42-44; supvr. acct, GMC Truck & Coach Div, Gen. Motors Corp, 44-49; owner, E.W. Averill & Co, Mfrs. Rep, 49-57; teacher, jr. high sch, Mich, 57-59; PROF. MATH, Parsons Col, 60-64; CLARION STATE COL, 64- Civilian statistician, Wright-Patterson Air Force Base, 51-52. Math. Soc; Math. Asn; Statist. Asn; Soc. Indust. & Appl. Math. Publ: Why elementary statistics?, Jr. Col. J, 12/62. Address: Dept. of Mathematics, Clarion State College, Clarion, Pa. 16214.

AVERILL, DR. LAWRENCE A(UGUSTUS), b. Alna, Maine, May 1, 91; m. 15. PSYCHOLOGY. A.B, Clark, 13, A.M, 14, Ph.D.(ed. psychol), 15. Instr. German, Clark, 13-14; prof. psychol. & head dept, Mass. State Teachers Col, Worcester, 15-50; consult. psychologist, 50-68; RETIRED. Pres, Child Guid. Clin, Worcester, Mass, 28-43. Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn. Mental hygiene; adolescent and educational psychology; child psychology. Publ: Adolescence; Psychology applied to nursing; Introductory psychology. Address: Jack's Wharf, Wiscasset, Maine 04578.

AVERITT, DR. ROBERT TABOR, b. Kaufman, Tex, July 12, 31; m. 57. ECONOMICS. B.A, North Texas State, 51; M.A, Texas, 57, Nat. Sci. Found. fel, 59-60, South. Fund fel, 60-61, Ph.D.(econ), 61. Asst. prof. ECON, SMITH COL, 61-67, ASSOC. PROF, 67- Consult, Small Bus. Admin, 64. U.S.N, 53-55. Econ. Asn. Industry structure; history of economic thought; macroeconomic theory. Publ: The dual economy, Norton, 67. Address: Dept. of Economics, Smith College, Northampton, Mass. 01060.

AVERY DR. HAROLD G(ARDNER), b. Edgar, Nebr, Mar. 11, 02; m. 28. ECONOMICS. B.Sc, Nebraska, 24, scholar, 24-25, M.A, 25; fel, Northwestern, 27-28; Ph.D, Columbia, 40. Prof. commerce & head dept, Bethany Col. (Kans), 25-27; assoc. prof. econ, Bradley, 28-46; Union (N.Y.), 47-53, prof, 54-67; RETIRED. U.S.A, 43-45, Capt. Publ: Accounting for depreciable fixed assets. Address: 1818 Randolph Rd, Schenectady, N.Y. 12308.

AVERY, PROF. R(OBERT) S(TERLING), b. Pittsfield, Ohio, Dec. 25, 17. POLITICAL SCIENCE. A.B, Baldwin-Wallace Col, 39; A.M, Northwestern, 40, Ph.D, 52. Res. assoc, Northwestern, 39-40, head teaching asst. polit. sci, 40-41; training officer, dept. personnel, Tenn. Valley Authority, 41-43, 45-47; assoc. prof. polit. sci. & assoc. dir. bur. pub. admin, TENNESSEE, 47-52, PROF. POLIT. SCI, 52-, chief adv, univ. mission, Bolivia, 55-57, chief, univ. tech. servs. unit, Panama, 58-60, asst. v.pres. acad. affairs, 63-67. Chief, div. indust. govt. & tech. servs, For. Opers. Admin, Panama, 52-54; pub. admin. adv, U.S. Opers. Mission, Guatemala, 58, Orgn. Am. States consult, Pub. Admin. Conf, Brazil, 63; dir, Peace Corps, Brazil, 67-; summer consult, Int. Coop. Admin, Ecuador, 61, Nicaragua, 61, 62. U.S.A, 43-45. Soc. Pub. Admin. Public and comparative administration; Latin American government; decentralization of personnel administration in the Tennessee Valley Authority. Publ: Co-auth, Government in Tennessee, rev. ed. 67. Address: Dept. of Political Science, University of Tennessee, Knoxville, Tenn. 37916.

AVERY, PROF. ROBERT W(ILLIAM), b. Duluth, Minn, Feb. 3, 25; m. 54; c. 2. SOCIOLOGY. A.B, Oberlin Col, 48, M.A, 52; Ph.D.(sociol), Harvard, 59. Res. assoc. indust. mgt, Mass. Inst. Tech, 57-59; asst. prof. SOCIOL, PITTSBURGH, 59-64, assoc. prof, 64-67, PROF, 67-, ASSOC. DIR. INT. STUDIES PROG, 66-, sr. res. assoc. admin. sci, 59-62. U.S.A.F, 43-46, 50-52, Capt. Sociol. Asn. Complex organizations; industrial sociology; small groups. Publ: Enculturation in industrial research, Trans. Inst. Radio Engrs. Address: 5350 Pocusett St, Pittsburgh, Pa. 15217.

AVIS, PROF. VIRGINIA, Anthrop, see 10th ed, Soc. & Behav. Vols.

AVIZONIS, PROF. KONSTANTINAS, European Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

AWH, PROF. ROBERT YOONBACK, b. Seoul, Korea, Aug. 13, 28; m. 57; c. 1. ECONOMICS, FINANCE. B.A, Chosun Christian Univ, Korea, 52, M.A, 54; Am-Korean Found. fel, Florida, 55-56, univ. fel, 57-58, Ph.D.(econ), 60. Consult, pub. finance, Budget Bur, Repub. Korea, 53-54; asst. prof. ECON, Nicholls State Col, 60-61, assoc. prof, 61-64, PROF, 64-68; MISS. STATE, 68- Res. fel, Rice Univ, 66-67, mem. Ford Found. Summer Faculty Res. Seminar, 62, fel, Ford Found. Summer Adv. & Post-doctoral Study Prog, Indiana Univ, 64. Am. Econ. Asn; Royal Econ. Soc; Korean Econ. Asn. Economic theory and development; money and banking; public finance; investment criteria for economic development in underdeveloped countries; application of mathematical programming for micro- and macro-economic decisions. Publ: Balance vs priority controversy in economic development: a re-examination, Economics, 11/64; On the inaccuracy of economic education: the case of the acceleration principle, Southwest. Soc. Sci. Quart, 3/65; Seasonal variations in rural disguised unemployment and economic development, Land Econ, 11/65. Address: Dept. of Economics, Mississippi State University, College Station, Miss. 38762.

AWKARD, PROF. JOSEPH C, JR, b. Harrisonburg, Va. Dec. 29, 20; m. 56; c. 3. PSYCHOLOGY, EDUCATION. A.B, Va. State Col, 42, M.S, 52; Ed.D.(ed. psy-

chol), 64. Teacher & prin, elem. sch, 46-54; asst. prof. PSYCHOL, FLA. AGR. & MECH, 54-56, PROF. & HEAD DEPT, 56- Consult, Off. Econ. Opportunity, Paine Col, 67. U.S.A, 42-46, 1st Lt. Psychol. Asn. Human learning, especially racial and cultural dynamics. Publ: Behavioral concepts in social studies, Univ. Virginia Bull, 65. Address: 1108 Tanner Dr, Tallahassee, Fla. 32304.

AX, DR. ALBERT F(RANCIS), b. Ohio, Feb. 22, 13; m. 42. PSYCHOLOGY. B.S, Washington (Seattle), 40; Ph.D.(clin. psychol), Harvard, 50. Res. assoc. & lectr. clin. psychol, Harvard, 50-51; instr. psychol, sch. med, Washington (Seattle), 51-56; prin. res. scientist, res. facility, Rockland State Hosp, 56-57; DIR, PSYCHOPHYSIOL. LAB, LAFAYETTE CLINIC, 57- Res. consult, Mass. State Dept. Ment. Health, 49-51; Am. Climatic Res. Lab, 51; consult, Vet. Admin, 51-56, sci. adv. bd, U.S. Dept. Air Force, 60-61. U.S.A.A.F, 42-46, Lt. AAAS; Soc. Biol. Psychiat; Soc. Psychophysiol. Res.(secy-treas, 60, pres, 63, ed-in-chief, 63-); Psychol. Asn. Psychophysiology of emotion and motivation; schizophrenia; conditioning of autonomic behavior; stochastic analysis. Publ: Physiological differentiation between fear and anger in humans, Psychosom. Med; Emotion, In: McGraw-Hill encyclopedia science and technology; Goals and methods of psychophysiology, Psychophysiology, 64. Address: Lafayette Clinic, 951 E. Lafayette, Detroit, Mich. 48207.

AXELBANK, RASHELLE G(OLDBERG), b. Russia, Apr. 24, 01; nat; m. 50. ECONOMICS. B.A, Cornell, 24. Head reports & anal. sect, div. employ, N.Y. State Dept. Labor, 24-67; RETIRED. Econ. Asn. Labor market analysis; gerontology; sociology. Publ: Wanted, more facts and fewer opinions on absenteeism; Development of local area information on occupations; Employment problems of older workers in New York City. Address: 303 W. 66th St, New York, N.Y. 10023.

AXELRAD, DEAN SIDNEY, b. N.Y, May 25, 13; m. 49. SOCIAL PSYCHOLOGY. B.Sc, City Col. New York, 33; M.A, N.Y. Univ, 37; Rockefeller fel, 41-42; D.S.Sc. (soc. sci), New Sch. Soc. Res, 43; N.Y. Psychoanal. Inst, 48-52. Res. assoc, N.Y. State Training Sch, 34-38; supvr, New York Bd. Child Welfare, 38-41; asst, Res. Proj. Totalitarian Communications, 41-43; instr. soc. psychol, Queens Col.(N.Y), 46-48; asst. prof. sociol, grad. faculty, New Sch. Soc. Res, 49-50; PROF. anthrop. & social. & chmn. dept, QUEENS COL.(N.Y), 50-62, SOCIOL, 67-, DEAN GRAD. STUDIES, 62- Asst. chief res, New York Vet. Center, 46-48; res. assoc, Columbia, 48-51; Training Bur. Jewish Communal Serv, 49-51; vis. prof, New Sch. Soc. Res, 50-54; mem. faculty, sch. appl. psychoanal, N.Y. Psychoanal. Inst, 51-54; co-dir, infant develop. res. proj, Lenox Hill Hosp, 63- Consult, 46- Managing ed, Psychoanal. Study of Soc, 51. U.S.A.A.F, 43-45. AAAS; Psychol. Asn; Sociol. Asn; Anthrop. Asn; Royal Soc. Health. Psychoanalytic theory; delinquency; child development as influenced by interaction with mother. Publ: Co-auth, German radio propaganda; Occupational choice; Anxiety, socialization and ego formation in infancy, Int. J.Psychoanal, 66. Address: 1148 Fifth Ave, New York, N.Y. 10028.

AXELROD, DR. JOEL NATHAN, b. Bellaire, Ohio, June 26, 32; m. 57; c. 1. PSYCHOLOGY. A.B, Brown, 54; Rumrill fel, Rochester, 56-57, Ph.D. (psychol), 58. Asst. psychol, Rochester, 54-58; asst. proj. dir. advert, Dancer, Fitzgerald, Sample, 58-60; supvr. advert. res, Benton & Bowles, 60-62; spec. asst. to dir. res, D'Arcy Advert. Co, 62-63; mgr. advert. anal, Lever Bros. Co, 63-66; MGR. MKT. RES. & DEVELOP, XEROX CORP, 66- Res. assoc, Psychol. Corp, 56-58. Psychol. Asn; Mkt. Asn; Asn. Pub. Opinion Res. Computer model building; competitive intelligence; executive decision making; survey research; forecasting and corporate planning. Publ: Reducing advertising failure by concept testing, J. Mkt, 10/64; A validation of Murphy's Law, 9/67 & Attitude measures that predict purchase, 3/68, J. Adv. Res. Address: Xerox Corporation, Xerox Square, Rochester, N.Y. 14604.

AXELROD, DR. MORRIS, b. Detroit, Mich, June 16, 17; m. 43; c. 3. SOCIOLOGY. Ph.D.(sociol), Michigan, 53. Dir. Detroit Area Study, sociol. dept. & surv. res. center, Michigan, 53-54, asst. head field staff, surv. res. center, 54-63, lectr. sociol, univ, 58-63, res. assoc, pop. studies center, 60-63; dir. long range planning proj, Combined Jewish Philanthropies Greater Boston, 63-68, community res. proj, 65-68; DIR. BOSTON AREA SURV, JOINT CENTER URBAN STUDIES, HARVARD & MASS. INST. TECH, 68- Sr. faculty assoc, Florence Heller res. center, Brandeis, 64- Consult, United Community Serv. Metrop. Boston, 64- U.S.A, 41-46, Capt. Pop. Asn; Sociol. Asn. Survey methodology; urban community. Publ: Urban structure and social participation, Am. Soc. Rev; Who belongs to what in a great metropolis, Adult Leadership; co-auth, A community survey for long range planning, Combined Jewish Philanthropies, 67. Address: 44 A Brattle St, Cambridge, Mass. 02138.

AXELROD, DR. SEYMOUR, b. New York, N.Y, June 1, 27; m. 52; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, N.Y. Univ, 51, univ. scholar, 51-52, Ph.D, 58; Am. Found. for Blind fel, 55-57. Asst. psychol, N.Y. Univ, 52-55; res. psychologist, St. Barnabas Hosp, New York, 57-58; from instr. to asst. prof. psychiat, med. center, Duke, 58-64; EXP. PSYCHOL, SCH. MED, STATE UNIV. N.Y. BUFFALO, 64-66, ASSOC. PROF, 66- Nat. Inst. Ment. Health res. fel, 62-64, res. career develop. award, 65-; prof. lectr, dept. psychol, State Univ. N.Y. Buffalo, 67- U.S.A.A.F, 45-46. Psychol. Asn; Animal Behavior Soc. Mediation of perception by nervous system. Publ: Cognitive tasks in several modalities, In: Processes of aging, Atherton, 63; Effects of early blindness: performance of blind and sighted children on tactile and auditory tasks; co-auth, Effects of auditory cortex ablation on ability to discriminate between stimuli presented to the two ears, J. Comp. & Physiol. Psychol, 65. Address: 221 Washington Hwy, Amherst, N.Y. 14226.

AXELSON, DR. LELAND JOHN, b. Seattle, Wash, Nov. 7, 24; m. 48; c. 3. SOCIOLOGY. B.A, Washington State, 49, B.Ed, 51, M.A, 58, Ph.D.(sociol), 63. Teacher, high sch, Wash, 50-56; lectr. SOCIOL, Fla. State, 61-62, asst. prof, 62-63; Colorado State, 63-65; ASSOC. PROF, FLA. STATE, 65- Nat. Coun. Family Rels; Sociol. Asn. The family as a social institution; sex roles and role change in the family. Publ: Personal adjustment in the post-parental period, 60 & The marital adjustment and marital role definitions of husbands of working and nonworking wives, 63, Marriage & Family Living; Relation of mothers' employment to intellectual performance of Negro college students, Soc. Probs, 64. Address: Dept. of Sociology, Florida State University, Tallahassee, Fla. 32306.

AXFORD, PROF. H(ERBERT) M(ELVIN), b. Winnipeg, Man, July 25, 18; m. 47; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. B.Comm, Manitoba, 41; M.Comm, Toronto, 47; Ph.D.(commerce), Wisconsin, 57. Instr. bus. admin, Knox Col, 51-54; asst. prof. econ. & bus. admin. & chmn. dept, Pac. Lutheran Col, 54-58; assoc. prof. econ. & bus. admin. & secy. sch. commerce, Alberta, 58-59; pres, Waterloo Univ. Col, 49-61; pres, Indust. Dynamics, 61-65; res. officer, Dom. Bur. Statist, 65-67; PROF. ECON, LETHBRIDGE, 67- Vis. lectr, British Columbia, 58; Banff Sch. Adv. Mgt, 58-59. R.C.N, 41-46, Lt. Comdr. Finance Asn; Statist. Asn; Can. Econ. Asn. Medium size growth companies in their own dynamic setting; enterprise economics; industrial system; analysis of industrial securities; business and financial statistics; principles of economics. Publ: Bank debits in Canada, Proc. Am. Statist. Asn, 68. Address: 2405 23rd Ave. S, Lethbridge, Alta, Can.

AXILROD, STEPHEN H, b. New York, N.Y, June 21, 26; m. 50; c. 3. ECONOMICS. A.B, Harvard, 48; M.A, Chicago, 50. Planning technician, P.R. Planning Bd, 50-51; economist, Bd. Governors, FED. RESERVE SYST, 52-64, chief, GOVT. FINANCE SECT, DIV. RES. & STATIST, FED. RESERVE BD, 64-66, assoc. adv, 66-68, ADV. & ASSOC. ECONOMIST, FED. OPEN MKT. CMT, 68- U.S.N, 44-46. International finance; money and banking; money and securities markets. Publ: Liquidity and public policy, Fed. Reserve Bull; co-auth, Interest rates and monetary policy, Fed. Reserve Bull, 62 & Postwar United States monetary policy appraised, In: United States monetary policy, Praeger, 64. Address: Division of Research & Statistics, Federal Reserve Board, Constitution Ave. between 20th & 21st N.W, Washington, D.C. 20551.

AXINN, DR. GEORGE HAROLD, b. Jamaica, N.Y, Feb. 1, 26; m. 45; c. 3. SOCIOLOGY, MASS COMMUNICATION. B.S, Cornell, 47; M.S, Wisconsin, 52, Kellogg Found. fel, 56-57, Ph.D, 58; Mich. State, 53-56. Asst, N.Y. Agr. Exp. Sta, 47-48; ed. bul, col. agr, Maryland, 48-49; agr. ed. & head dept. rural commun, Delaware, 49-53; exten. TV ed. & assoc. exten. ed, MICH. STATE, 53-55, asst. to dir. coop. exten. serv, 55-58, assoc. dir. coop. exten. serv, 58-61, coordinator, Mich. State-Univ. Nigeria Prog, 61-64, ASST. DEAN INT. PROGS, UNIV, 64-, chief-of-party admin, Mich. State Univ. adv. group-Univ. Nigeria, 65-66. Consult, Nat. Proj. Agr. Commun, 54-57. U.S.N.R, 44-46. Adult Ed. Asn; Rural Sociol. Soc; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Soc. Int. Develop. Communication; administration. Publ: Miliu theory of control, Pub. Admin. Rev; Communication habits of Delaware farmers, Journalism Quart; Rigor in cooperative extension graduate research, Adult Ed. Address: International Programs, Michigan State University, East Lansing, Mich. 48823.

AXLINE, DR. VIRGINIA M, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

AXT, DR. RICHARD G(EORGE), b. North Bergen, N.J, Dec. 17, 24; m. 47; c. 3. POLITICAL SCIENCE. A.B, Harvard, 48, M.P.A, 41, Ph.D.(polit. sci), 52. Fiscal analyst, U.S. Bur. Budget, 48-49; instr. polit. sci, Brandeis, 50-53; study dir. instnl. res, Nat. Sci. Found, 53-56; from asst. dir. to assoc. dir, West. Interstate Cmn. Higher Ed, 56-60; res. adminstr, Stanford, 60-64; dean bus. affairs, City Univ. N.Y, 64-65; AUTHOR & ED, 65- Res. assoc, Cmn. Financing Higher Ed, 50-52; dep. assoc. cmnr, U.S. Off. Ed, 65. Consult, President's Cmn. Vet. Pensions, 55-56; President's Cmt. Ed. Beyond High Sch, 58; White House Conf. Children & Youth, 60. U.S.N, 43-45. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; educational and science policy; American political parties and elections. Publ: The Federal Government and financing higher education; Research on graduate education; ed, College self study. Address: 442 Valley View Rd, Englewood, N.J. 07631.

AYARS, DR. ALBERT L, b. Kettle Falls, Wash, Sept. 17, 17; m. 41; c. 8. SOCIOLOGY. B.A, Washington State, 39, B.Ed, 40, M.A, 42, D.Ed, 56. Head eng. dept, high sch, Wash, 40-42, prin, 42-45, supt, pub. schs, 45-52; assoc. dir, Joint Coun. Econ. Ed, N.Y, 52-53; dir, dept. ed, Hill & Knowlton, Inc, 53-65; SUPT, SPOKANE PUB. SCHS, 65- Instr, Washington State, 39-48, vis. prof, 50-52; Mich. State, 58; Delaware, 59; summer vis. prof, Gonzaga, 66. Consult, N.Y. Univ, 52; planning consult, White House Conf, 55; mem, Adv. Task Force, Nat. Training Labs, 59-61; adv. cmt, U.S. Off. Ed, 56; Conf. Orgn. Principles & Patterns Col. & Univ. Rel, 58; Nat. Cmt. Provide Guid. Reshaping High Sch. Sci. Curriculum, 59; pres, Coun. Nat. Orgns. Adult Ed, 59. AAAS; Econ. Asn; Acad. Polit. & Soc. Sci; Sci. Teachers Asn; fel. Int. Inst. Arts & Letters. Education; results of community resources workshops for teachers; effects of use of portable typewriter on general achievement of elementary school children; methods used in the teaching of economics. Publ: Handbook of public relations, In: Administering the people's schools; Adult education association of the USA, In: How to plan your community resources workshop. Address: 825 W. Trent Ave, Spokane, Wash. 99201.

AYEARST, PROF. MORLEY, b. Can, Oct. 15, 99; nat; m. 29; c. 1. POLITICAL SCIENCE. B.A, Toronto, 21, M.A, 24; Ont. Govt. scholar, France, 22-23; Ph.D, Princeton, 32. Instr. GOVT, N.Y. UNIV, 30-38, asst. prof, 38-45, assoc. prof, 45-62, PROF, 62- Dir. eve. studies, Westchester Center, N.Y. Univ, 45-47, Wash. Sq. Col, 49-, chmn. dept. govt, 62-66; Fulbright scholar, B.W.I, 53-54. Econ. intel. officer, U.S. Embassy, London & Supreme Hq. Allied Exped. Forces, 43-45. Am. Polit. Sci. Asn; Int. Polit. Sci. Asn. Comparative government. Publ: Co-auth, The governments of Europe; auth, The British West Indies: the search for self-government. Address: 245 Old Stone Highway, Springs, East Hampton, N.Y. 11937.

AYER, PROF. HUGH M, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

AYERS, DR. J(OHN) DOUGLAS, b. Redvers, Sask, Oct. 30, 17; m. 52; c. 2. EDUCATIONAL PSYCHOLOGY. B.A. & B.Ed, British Columbia, 47; Defence Res. Bd. grant, Toronto, 48-51, Ph.D.(ed), 51. Teacher, rural &

graded schs, B.C, 37-47; res. asst, Can. Res. Cmt. Practical Ed, Can. Ed. Asn, 50-51; res. scientist & Defence Res. Bd. grant, personnel res. sect, Defence Res. Med. Labs, 51-53; res. dir, Can. Teachers' Fedn, 53-59; assoc. prof. ed. psychol, Alberta, 59-66; dir. res. & develop, Calif. Test Bur, McGraw-Hill Book Co, 66-68; MEM. FAC. ED, VICTORIA (B.C), 68- Alta. Adv. Cmt. Ed. Res. grant prog. instr, 63-65. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Trends in the economic status of teachers: 1910-1955, Can. Teachers' Fedn, 57; The Alberta teaching force, 1957-58 to 1971-72, A.T.A. Mag, 10/64; co-auth, Summary description of grade nine social studies objectives and test items, Edmonton Dept. Ed, 1/66. Address: Faculty of Education, Victoria Universitv, Victoria, B.C, Can.

AYERS, PROF. MILAS McCORD, b. Lascassas, Tenn, Dec. 23, 09; m. 57; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Union (Tenn), 48; M.A, Middle Tenn. State Col, 52; Ed.D, Peabody Col, 58. Teacher & prin, elem. sch, 27-36, prin, 50-51; assoc. prof. & head dept. ed, Tabor Col, 54-56; teacher pub. schs, Kans, 56-58; asst. prof. ed, Ball State Teachers Col, 58-61; assoc. prof. psychol. & head dept, Findlay Col, 61-64; assoc. prof. ed. & psychol, Cumberland Col, 64-68; PROF. PSYCHOL, CALIF. BAPTIST COL, 68- General and social psychology; psychology of learning. Address: Division of Social Sciences, California Baptist College, 8432 Magnolia Ave, Riverside, Calif. 92501.

AYLLON, DR. TEODORO, Psychol, see 10th ed, Soc. & Behav. Vols.

AYOUB, DR. MILLICENT ROBINSON, b. New York, N.Y, Sept. 25, 29; m; c. 1. SOCIAL ANTHROPOLOGY. A.B, Antioch Col, 50; univ. fel, Radcliffe Col, 54-56, Nat. Sci. Found. fel, 56-57, Ph.D, 57. RES. ASSOC. SOC. ANTHROP, FELS RES. INST, ANTIOCH COL, 58-59, 60- Soc. Sci. Res. Coun. fel, 60. Fel. Anthrop. Asn; Ling. Soc. Kinship; American family; ethnolinguistics; Middle East studies. Publ: Parallel cousin marriage and endogamy: a study in sociometry, Southwest. J. Anthrop. Address: 1365 Rice Rd, Yellow Springs, Ohio 45387.

AYOUB, DR. MOHAMED MOHAMED, b. Tanta, Egypt, Feb. 17, 31; m. 59; c. 1. INDUSTRIAL ENGINEERING. B.S, Cairo, 53; M.S, Iowa, 55, Ph.D.(indust. eng), 64. Indust. engr, Maytag Co, 56-58, planning engr, 58-61; asst. prof. INDUST. ENG, TEX. TECH. COL, 61-64, ASSOC. PROF, 64- State Tex. res. grants, 63-67. Consult, Mobil Oil Co. & Lubbock Mfg, Tex, 61; Time Motor Freight, Tex, 61-62; West. Elec. Corp, Mo, 63-64. Inst. Indust. Eng. Industrial biochemics; work place and tool design; inspection tasks. Publ: Co-auth, The effect of environmental factors on reaction time, J. Eng. Psychol, 65; auth, Effect of weight and distance travelled on body member acceleration and velocity for 3 dimensional moves, Int. J. Prod. Res, 66; co-auth, Experimental.determination of an optimal foot pedal design, J. Indust. Eng, 67. Address: Dept. of Industrial Engineering, Texas Technological College, Lubbock, Tex. 79409.

AYOUB, DR. VICTOR F(ERRIS), b. Detroit, Mich, Apr. 17, 23; m. 50. SOCIAL ANTHROPOLOGY. A.B, Antioch Col, 49; M.A, Columbia, 51; Soc. Sci. Res. Coun. fel, 53-54; Ph.D, Harvard, 55. Res. fel, Center Mid. East. Studies, Harvard, 55-56; from asst. prof. to ASSOC. PROF. ANTHROP, ANTIOCH COL, 56-, ED. ANTIOCH REV, 67- Soc. Sci. Res. Coun. fel, 60-61. U.S.A, 43-46. Fel. Anthrop. Asn; Royal Anthrop. Inst. Gt. Brit. & Ireland. Social organization; Middle East studies; philosophy of social sciences. Address: Dept. of Sociology & Anthropology, Antioch College, Yellow Spring, Ohio 45387.

AYRES, DR. BARBARA, b. Clyde, Kans. July 21, 25; m. 52. SOCIAL ANTHROPOLOGY. B.A. Coe Col. 47; M.A, North Carolina, 49; U.S. Pub. Health Serv. fel, 49-50; Ph.D.(ed), Radcliffe Col, 56. Asst. lab. human develop, Harvard, 50-53, res. assoc, sch. pub. health, 54-61; res. assoc. soc. work & lectr. res. & soc. sci, Boston, 61-63, asst. prof. soc. sci, 63-64; res. assoc. anthrop, Columbia, 64-65; lectr, res. fel. & assoc, soc. anthrop, dept. soc. rels, Harvard, 65-67; RES. & WRITING, 67- Lectr, N.Y. Univ, 64-65. AAAS; Anthrop. Asn. Cross-cultural method; comparative socialization; psychological anthropology; cross-cultural study of art and aesthetics. Publ: Co-auth, The learning of values, Harvard, 66; auth, Pregnancy magic: a study of food taboos and sex avoidances, Taplinger, 67; Effects of infant stimulation on musical behavior, Am. Asn. Adv. Sci, 68. Address: 54 Main St, Byfield, Mass. 01922.

AYRES, PROF. C(LARENCE) E(DWIN), b. Lowell, Mass, May 6, 91. ECONOMICS. A.B, Brown, 12, A.M, 14; Harvard, 13; fel, Chicago, 16-17, Ph.D, 17. Assoc. prof. philos, Amherst Col, 20-23; prof, Reed Col, 23-24; assoc. ed, New Repub, 24-25; lectr. philos. & adv, exp. col, Wisconsin, 28-29; PROF. ECON, TEXAS, 30- Dir. consumers div, U.S. Dept. Labor, 36; vis. prof, Washington (Seattle), 40. Econ. Asn; Philos. Asn; Asn. Evolutionary Econ.(pres, 66). Social philosophy; economic theory and its history; institutional economics. Publ: Toward a reasonable society; The industrial economy; The theory of economic progress, Schocken, 62. Address: Dept. of Economics, University of Texas, Austin, Tex. 78712.

AYRES, DR. JOHN J(AMES) B(REVARD), b. Aug. 2, 39; m. 61; c. 1. PSYCHOLOGY. B.A, Col. William & Mary, 61; M.A, Kentucky, 63, Ph.D.(psychol), 65. Res. psychologist, psychol. br, pioneering res. lab, U.S. Army Natick Labs, Mass, 65-67; ASST. PROF. PSYCHOL, MASSACHUSETTS, 67- Med.Serv.C, U.S.A, 65-67, Capt. Psychol. Asn. Visual perception; animal learning; psychopharmacology. Publ: Co-auth, Effects of morphine and pentobarbital on conditioned electrodermal responses in man, Psychopharmacologia, 65; auth, Conditioned suppression and the information hypothesis, J. Comp. & Physiol. Psychol, 66 & Some artifactual causes of perceptual primacy, J. Exp. Psychol, 66. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01003.

AYRES, LOREN DANIEL, b. Cutler, Ind, Nov. 9, 09; m. 32; c. 1. CRIMINOLOGY. A.B, Indiana, 51, M.A, 56. Instr. police admin, Indiana, 49-56, asst. prof. & acting head dept, 56-57; asst. prof, Purdue, 57-63; PRIVATE CONSULT, 63- Aerospace Syst. Safety Soc; Soc. Criminol. Police and traffic safety administration; juvenile delinquency; industrial security; penology. Publ: Enforcement level index, Police Chief News; co-auth, Police unions and the public safety, Ann. Am. Acad. Polit. & Soc. Sci; Security risks, Construct. Digest, 3/64. Address: 4802 E. 65th, Indianapolis, Ind. 46220.

AZAR, DR. LARRY, b. Boston, Mass, Aug. 18, 23; m. 47; c. 5. PSYCHOLOGY. B.S, Boston Col, 49, M.A, 50; Ph.D, Toronto, 53. Asst. psychol, Boston Col, 49-50; asst. prof, Fordham, 53-62, ASSOC. PROF. PHILOS, St John's (N.Y), 62-66; IONA COL, 66- Lectr, Hunter Col, 54- Med.C, U.S.A, 43-46. Philos. Asn; Metaphys. Soc. Metaphysics; philosophy of science, especially role of man in philosophy and science. Publ: Introduction to philosophy, Med. Pub, 65; co-auth, Philosophy today, W.C. Brown, 67; auth, Whitehead: challenging a challenge, The Thomist, 66. Address: 25-29 83rd St, Jackson Heights, N.Y. 11370.

AZRAEL, DR. JEREMY RICHARD, b. Baltimore, Md, Mar. 23, 35; m. 57; c. 1. POLITICAL SCIENCE. A.B, Harvard, 56, Ford Found. fels, 56-58, 59-61, M.A, 59, univ. fel. & Ph.D.(polit. sci), 61; Inter-Univ. Cmt. fel, Moscow State, 58-59. Asst. prof. POLIT. SCI, CHICAGO, 61-66, ASSOC. PROF, 66- Soc. Sci. Res. Coun-Am. Coun. Learned Socs. fel. Slavic studies, 62-63. Polit. Sci. Asn; Soc. Adv. Slavic Studies. Soviet politics; comparative communism; political development. Publ: Managerial power & soviet politics, Harvard, 66. Address: Dept. of Political Science, University of Chicago, Chicago, Ill. 60637.

AZRIN, DR. NATHAN H(AROLD), b. Boston, Mass, Nov. 26, 30; m. 53; c. 2. PSYCHOLOGY. B.A, Boston, 51, M.A, 52; Ph.D, Harvard, 56. Res. psychologist, sch. med, Boston, 52-53; asst, Harvard, 54-55; res. psychologist physiol. psychol, Inst. Living, 55-56; RES. DIR. PSYCHOL, BEHAV. RES. LAB, ANNA STATE HOSP, 58- Lectr, Southern Illinois, 58-65, prof, 65- U.S.A, 56-57. Psychol. Asn; Psychonomic Soc. Learning, conditioning and motivational studies with animals and humans. Publ: Co-auth, Design of a motivating environment, Appleton, 68; auth, Some effects of noise on human behavior; Effects of punishment intensity during variable-interval reinforcement. Address: 1200 W. Schwartz St, Carbondale, Ill. 62901.

AZUMI, DR. KOYA, b. Tokyo, Japan, Nov. 23, 30; U.S. citizen; m. 60; c. 2. SOCIOLOGY. B.A, Haverford Col, 55; Ph.D.(sociol), Columbia, 66. Instr. SOCIOL, Rutgers, 63-65; ASST. PROF, N.Y. Univ, 65-67; WISCONSIN, 67- Sociol. Asn; Asn. Asian Studies; Pop. Asn. Japan; social change; formal organization. Publ: The recruitment of university graduates by big firms in Japan, Columbia, 68. Address: 1-C University Houses, Madison, Wis. 53705.

B

BAADE, PROF. HANS WOLFGANG, Law, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

BAAR, JACOB, b. New York, N.Y, July 25, 04; m. 45. VITAL STATISTICS. B.S, N.Y. Univ, 26; M.A, Columbia, 27. Ed, Statist. Bull, Metrop. Life Ins. Co, 27-66; RETIRED. Statist. Asn; fel. Pub. Health Asn; Pop. Asn. Demography. Publ: Intermarriage and Jewish life, Herzl Press, 63; Psychology, Bull. Path, 7/66. Address: 390 First Ave, New York, N.Y. 10010.

BAAS, DR. MALCOLM L, b. New Point, Ind, Mar. 21, 24; m. 49; c. 4. PERSONNEL PSYCHOLOGY. B.S.C.E, Ohio, 47; M.S, Purdue, 49, Ph.D, 52. Asst. to mgr. metals res. labs, Electro Metall. Co, N.Y, 52-55; personnel dir, Owens-Corning Fiberglas Corp, N.J, 55-59; Booz, Allen & Hamilton, Ill, 59-60; v.pres, Buttrick & Megary, Phila, Pa, 60-63; De Voto Assocs, Inc, 63-68, PARTNER, DE VOTO, BAAS, BROOKHOUSER & ASSOC, INC, 68- U.S.N.R, 43-45. Psychol. Asn. Personnel evaluation and position analysis. Publ: Interest patterns of professional psychologists, J. Appl. Psychol. Address: De Voto, Baas, Brookhouser & Associates, Inc, Suite 960, 120 S. Riverside Plaza, Chicago, Ill. 60606.

BABB, PROF. E(MERSON) M(ACAULAY), JR, b. Norfolk, Va, Sept. 16, 30; m. 52; c. 3. AGRICULTURAL ECONOMICS. B.S, Va. Polytech, 51, M.S, 55; Ph.D, Pa. State, 57. Asst. prof. agr. econ, Pa. State, 56-57; assoc. economist, East. Milk Producers Coop, 57-60; asst. prof. AGR. ECON, PURDUE, 60-63, assoc. prof, 63-67, PROF. & ASST. HEAD DEPT, 67- U.S.A, 51-53, 2nd Lt. Farm Econ. Asn.(award, 58, essay award, 66). Market structure; regulatory activities in marketing; firm efficiency; operations research. Publ: Co-auth, Management games for teaching and research, Ed. Methods, 66; auth, Changing marketing patterns and competition for fluid milk, J. Farm Econ, 66; co-auth, Potential of business gaming methods in research, J. Bus, 66. Address: Dept. of Agricultural Economics, Purdue University, West Lafayette, Ind. 47907.

BABB, PROF. HAROLD, b. Mosheim, Tenn, Sept. 4, 26; m. 47; c. 3. PSYCHOLOGY. B.A, Wayne State, 50; M.A, Ohio State, 51, Ph.D.(psychol), 53. Asst. psychol, Ohio State, 50-53; asst. prof, Coe Col, 53-56, assoc. prof, 56-58, act. chmn. dept, 55-56, chmn, 56-58; prof. & head dept, Hobart & William Smith Cols, 58-63; exec. secy. & grants specialist exp. psychol, Nat. Insts. Health, 63-64; PROF. PSYCHOL. & CHMN. DEPT, MONTANA, 64- U.S.N.R, 44-46. AAAS; Psychol. Asn; Psychonomic Soc. Learning and motivation: discrimination learning; motivational combination and change; punishment of aversively-motivated behavior. Publ: Differential proportions of reinforcement of irrelevant stimuli and transfer value, Transfer from a stimulus complex to differentially discriminable components, 57 & Transfer between habits based on shock and thirst, 63, J. Comp. & Physiol. Psychol. Address: Dept. of Psychology, University of Montana, Missoula, Mont. 59801.

BABBITT, DR. ADELINE E(MILY), b. Meriden, Conn, Oct. 8, 94. PSYCHOLOGY. B.S, Columbia, 25, Ed.D, 45; M.A, Hawaii, 33. Organizer, Child Care Centers, Hawaii, Calif. & N.Y, 42-45; psychologist, Vet. Admin, 45-49; Fulbright lectr. child psychol, Rangoon, Burma, 49-51; expert psychologist, UNESCO, Libya, 51-57, Hawaii, 57-59, Kamehameha Sch. for Girls, 60-63, Chulalongkorn, Bangkok, 62-64; RETIRED. Psychol. Asn; Polit. Sci. Asn; Int. Coun. Women, World Fedn. Ment. Health. Publ: Co-auth, The golden flute: anthropology of children's verse; Program for children from 17 to 72 months. Address: Pohai Nani, Apt. 1103, Kaneohe, Hawaii 96744.

BABBITT, DR. HENRIETTE G(ROOT), Clin. Psychol, see GROOT, DR. HENRIETTE.

BABCHUK, PROF. N(ICHOLAS), Sociol, see 10th ed, Soc. & Behav. Vols.

BABCOCK, DR. LYNDON, b. Ogdensburg, N.Y; m. 30; c. 3. PSYCHOLOGY. B.A, Michigan, 22, Ph.D, 44; M.A, Wayne State, 37. Dir, Babcock Sch. Retarded Children, 30-34; psychologist, Eloise Hosp, 34-43; personnel counsr, Wayne County Civil Serv. Cmn, 43-59; STAFF PSYCHOLOGIST, CALIF. MEN'S COLONY, 63- Lectr, Wayne State, 50, Univ. California Exten, 65. Private practice, 59-63. U.S.A, 18. Fel. Psychol. Asn. Abnormal psychology; psychotherapy; marriage counseling; hypnosis. Address: California Men's Colony, East Facility, Los Padres, Calif. 93401.

BABCOCK, DR. ROBERT S(HILLINGFORD), b. Chicago, Ill, July 22, 15; m. 40; c. 5. POLITICAL SCIENCE. A.B, Rochester, 37, Rhodes scholar, Oxford, 37-39, B.A, 39, M.A, 43; Ph.D, Northwestern, 49; LL.D, Marlboro Col, 57. Instr, Black Mt. Col, 40-42; econ. analyst, U.S. Treas. Dept, 42; prof. polit. sci, Vermont, 46-65; PROVOST, VERMONT STATE COLS, 65- State senator, Vt. Legis, 51-55, secy. to governor, Vt, 55, pres. pro tem, State Senate, 57-59, lt. governor, 59-61. Intel. officer, Bd. Econ. Warfare, 42-43. U.S.N.R, 43-46. Polit. Sci. Asn. International federation. Publ: State and local government and politics. Address: Five Acres, R.D. 1, Burlington, Vt. 05401.

BABCOCK, DR. SAMUEL DONALD, JR, b. Bloomingdale, N.J, May 11, 26; m. 52; c. 2. PSYCHOLOGY. B.S, Franklin & Marshall Col, 49; New Sch. Soc. Res, 49-50; Ph.D.(psychol, psychopath. & ed), Tuebingen, Germany, 56. Sr. clin. psychologist, VINELAND STATE SCH, 56-59, prin. clin. psychologist, 59-67, DIR. GUID. CENTER, 56-; CHIEF CLIN. SERV, AM. INST. MENT. STUDIES, TRAINING SCH, 67- Pres, Coun. Soc. Disorders in Ment. Subnormality, 58. U.S.N.R, 44-46; U.S.M.C.R, 50-52. Psychol. Asn; Asn. Ment. Deficiency. Hypnosis with the mentally retarded, as a technique in crime detection and associated basic studies; psychotherapeutic techniques with the mentally retarded; inherited personality structure. Publ: Co-auth, New therapeutic adjunct & Die Psychologie in der Kosmetik; Treatment of psychiatric disorders in mental defectives with perphenazine. Address: 740 Pear St, Vineland, N.J. 08360.

BABIAN, HAIG, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BABILOT, PROF. GEORGE, b. New York, N.Y, Mar. 29, 23; m. 48; c. 1. ECONOMICS. A.B, Hastings Col, 50; M.A, Nebraska, 53; Carnegie fel, Oregon, 53-55, Ph.D.(econ), 58. Asst, Nebraska, 51-52, instr. ECON, 52-53; Oregon, 55-56; Portland State Col, 56; PROF, SAN DIEGO STATE COL, 56- U.S.N, 42-43. Econ. Asn. Public finance; economic theory. Publ: Co-auth, Basic problems in taxation and welfare theory, In: Ed, Paul Kleinsorgie, Public finance and welfare essays in honor C. Ward Macy, Univ. Oregon Bks, 66 & Empirical evidence of the changing pattern of personal income taxes paid by income classes, 1951-1962, South. Econ. J, 4/67. Address: Dept. of Economics, Division of Social Science, San Diego State College, 5402 College Ave, San Diego, Calif. 92115.

BABIONE, PROF. F(RANCIS) A(UGUSTUS), b. Luckey, Ohio, Dec. 21, 10. MARKETING. B.S, Miami (Ohio), 31; A.M, Ohio State, 32, Ph.D, 49. Asst. prof. econ, Otterbein Col, 41-45; assoc. prof. MKT, Toledo, 45-47; from asst. prof. to ASSOC. PROF, COL. BUS. ADMIN, PA. STATE, 47- Mkt. Asn. Leasing of equipment; marketing equipment by leasing. Address: Dept. of Marketing, Pennsylvania State University College of Business Administration, University Park, Pa. 16802.

BABLADELIS, DR. GEORGIA, b. Manistique, Mich, Jan. 30, 31. CLINICAL PSYCHOLOGY. B.A, Michigan, 53; M.A, California, 57; U.S. Pub. Health Serv. & univ. fels, Colorado, 57-59, Ph.D, 60. Clin. psychologist, Alameda County Probtn. Dept, 59-60, sr. clin. psychologist & training supvr, 60-63; instr, Col. San Mateo, 63-66; asst. prof. PSYCHOL, CALIF. STATE COL. HAYWARD, 66-67, ASSOC. PROF, 67- Instr, Oakland City Col, 60-61. Psychol. Asn. Methodological analysis of variables influencing behavioral changes as a result of psychotherapeutic intervention, and the onset and control of delinquent behavior. Publ: The shaping of personality, Prentice-Hall, 66; Personality and verbal conditioning effects, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, California State College at Hayward, Hayward, Calif. 94542.

BABOW, DR. IRVING P(AUL), b. Kiev, Russia, Aug. 12, 13; nat; m. 44; c. 1. SOCIOLOGY. B.A, California, 36, Ph.D.(sociol), 54; Grad. Sch. Jewish Soc. Work & N.Y. Sch. Soc. Work fel, 38. Res. coordinator, Civil Rights Inventory, San Francisco Coun. Civic Unity, 55-57; res. consult, Community Health & Rehab. Surv, United Community Fund San Francisco, 57-59; res. dir. patient study, Calif. Div, Am. Cancer Soc, 62; study dir, ment. health study, Alameda County Ment. Health Asn. & Coun. Soc. Planning, 62-63; surv. emotionally disturbed children, United Community Fund San Francisco, 63; supvry. soc. scientist, nursing res. field center, U.S. Pub. Health Serv, 64-65; RES. SOC. SCIENTIST, NAPA STATE HOSP, IMOLA, 65- Lectr, California, Berkeley, 55-65. Medical and psychiatric sociology; demography; sociology of organization. Publ: Report on rehabilitation of chronically ill and disabled persons in San Francisco, United Community Fund San Francisco, 60; The needs of cancer patients in California, Am. Cancer Soc, 63; Mental health needs and resources in Alameda County, Coun. Soc. Planning & Ment. Health Asn. Alameda County, 65. Address: 85 Circle Ave, Mill Valley, Calif. 94941.

BABSON, ROGER W(ARD), Statist, see 10th ed, Soc. & Behav. Vols, deceased 67.

BACDAYAN, DR. ALBERT S(OMEBANG), b. Mountain Province, Philippines, Feb. 16, 34; m. 60; c. 2. ANTHROPOLOGY. B.S, Philippines, 56; M.A, Trinity Col.(Conn), 61; univ. & Episcopal Church fels, Pittsburgh, 61-62; Ph.D.(anthrop), Cornell, 67. Teacher, Brent Sch, Philippines, 56-60; ASST. PROF. ANTHROP, KENTUCKY, 67- Soc. Appl. Anthrop; Anthrop. Asn. Legal and political acculturation; social change. Publ: Co-auth, Menstrual taboos and social rigidity, Ethnology, 4/65. Address: Dept. of Anthropology, University of Kentucky, Lexington, Ky. 40502.

BACH, DEAN ARTHUR LAWRENCE, b. Bemidji, Minn, Feb. 8, 05; m. 33; c. 1. POLITICAL SCIENCE. B.E, Bemidji State Col, 31; M.A, North Dakota, 37; Ph.D, Iowa, 42; dipl, American Univ, 59. Asst. prof. econ, New Mexico State, 42-43; PROF. POLIT. SCI. & DEAN ACAD. AFFAIRS, WESTERN NEW MEXICO, 43-, DIR. GRAD. DIV, 50-, SUMMER SESSIONS, 55- Polit. Sci. Asn; Nat. Ed. Asn. Public administration. Publ: Administration of Indian resources. Address: Dean of Academic Affairs, Western New Mexico University, Silver City, N.Mex. 88061.

BACH, PROF. GEORGE LELAND, b. Victor, Iowa, Apr. 28, 15; m. 39; c. 4. ECONOMICS. A.B, Grinnell Col, 36; hon. LL.D, 56; Ph.D, Chicago, 40; hon. LL.D, Carnegie Inst. Tech, 67. Instr. Iowa State Col, 39-41; spec. asst. & sr. economist, bd. governors, Fed. Res. Syst, 41-44; prin. economist, U.S. Dept. Commerce, 46; Maurice Falk prof. econ. & head dept, Carnegie Inst. Tech, 46-66, dean grad. sch. indust. admin, 49-62; FRANK E. BUCK PROF. ECON. & PUB. POLICY, STANFORD, 66-, Ford res. prof, 63-64. Ford Found. faculty res. fel, 58-59. Chmn. bd. dirs, Pittsburgh Br, Fed. Res. Bank of Cleveland, 60-66. Consult, Cmn. Orgn. of Exec. Br. Govt; U.S. Treas. & bd. governors, Fed. Res. Syst. Chmn, Nat. Task Force Econ. Ed. Econ. Asn; Finance Asn; fel. Am. Acad. Arts & Sci; Inst. Mgt. Sci. Banking and monetary policy; inflation. Publ: Management and corporations, 60; Microeconomics, 66 & Macroeconomics, 67. Address: Dept. of Economics & Public Policy, Graduate School of Business, Stanford University, Stanford, Calif. 94305.

BACH, DR. GEORGE ROBERT, b. Riga, Latvia, Nov. 2, 14; nat; m. 40; c. 4. CLINICAL PSYCHOLOGY. B.A, & M.A, California, 41; Ph.D.(clin. psychol), Iowa, 44. Instr. psychol, army specialized training prog, Iowa, 43-44; Western Reserve, 44-45; dir. clin. & guid. serv, Kent State, 45-47; asst. prof. psychother, grad. sch, Southern California, 47-48; private practice psychol, 48- Consult, Vet. Admin. Psychiat. Hosps, 47-48. Mem, Inst. Group Psychother, Calif. Fel. Psychol. Asn; Soc. Res. Child Develop; Group Psychother. Asn; Acad. Psychother. Group psychotherapy; interpersonal communication theory; unconscious motivation. Publ: Intensive group psychotherapy; Children's play phantasies. Address: 8437 Hollywood Blvd, Los Angeles, Calif. 90069.

BACH, DR. SHELDON, b. New York, N.Y, May 18, 25; m. 58; c. 2. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 49, Ph.D.(clin. psychol), 60. Intern psychol, Bronx Munic. Hosp, New York, 57-58; fel, Nat. Inst. Ment. Health, 58-59; fel, Res. Center Ment. Health, 59-60; instr, ALBERT EINSTEIN COL. MED, 60-66, CLIN. ASST. PROF. PSYCHIAT, 66- Staff psychologist, Bronx Munic. Hosp, 60-62, Attend. psychologist, 62- Consult, Montefiore Hosp, 66- U.S.A, 43-46, Sgt. Psychol. Asn. Psychoanalytic theory and practice; psychopathology; perception and personality. Address: 365 West End Ave, New York, N.Y. 10024.

BACHELOR, ROBERT W(ILLARD), b. Portland, Ore, Sept. 23, 00; m. 29; c. 2. ECONOMICS. B.B.A, Washington (Seattle), 21, M.B.A, 22. Commercial engr, Pac. Tel. & Tel. Co, Calif, 23-28; economist, Fed. Reserve Bank San Francisco, 29-35; U.S. Tariff Cmn, 36-40; dir, Res. Coun. Am. Bankers Asn, N.Y, 40-48; res, Bay Found, 48-52; acting pres, Bay Petrol. Corp, 52-55; v.pres, secy-treas. & dir, Am. Export Lines, Inc, 56-62; v.pres, A.M. Kidder & Co, Inc, 62-64; ECONOMIST, CONN. DEVELOP. CMN, 65- Econ. Asn; Statist. Asn; Economet. Soc; Inst. Math. Statist. Regional studies; population projections. Publ: Statistical reports covering the works program; The country bank's portfolio of United States government securities. Address: 89-A Shadow Lane, West Hartford, Conn. 06110.

BACHMAN, DR. JERALD G(RAYBILL), b. Harrisburg, Pa, Oct. 20, 36; m. 57; c. 3. PSYCHOLOGY. A.B, Lebanon Valley Col, 58; M.A, Pennsylvania, 61, Ph.D.(psychol), 62. Asst. psychol, Pennsylvania, 58-59, asst. instr, 59-62; asst. prof. higher ed, MICHIGAN, 64-65, LECTR. PSYCHOL, 63-, study dir, INST. SOC. RES, 62-67, SR. STUDY DIR, 67- Res. asst, Franklin Inst, 61. Nat. Inst. Ment. Health & U.S. Off. Ed. res. grants; Nat. Sci. Found. summer fels, Pennsylvania, 59, 60 & 62. Psychol. Asn; Soc. Psychol. Study Social Issues. Social psychological processes and mental health in organizations; vocational choice processes; organizational characteristics of public high schools; motivational models. Publ: Co-auth, Youth in transition: Vol. I, Blueprint for a longitudinal study of adolescent boys, Univ. Michigan Inst. Soc. Res, 67; Control, performance, and satisfaction: an analysis of structural and individual effects, J. Personality & Soc. Psychol, 66. Address: Institute for Social Research, University of Michigan, Ann Arbor, Mich. 48104.

BACHMAN, PROF. JOSEPH W(ILLIAM), b. Kingman, Kans, Dec. 19, 13. ACCOUNTING. B.S, Colorado, 47; M.S, Illinois, 53, Ph.D.(econ), 56. From asst. prof. to PROF. ACCT, COLORADO, 54- Econ. Asn. Accounting theory; financial analysis. Address: School of Business, University of Colorado, Boulder, Colo. 80302.

BACHMAN, DR. KENNETH L(EROY), b. Eddy, Okla, Nov. 14, 13; m. 41; c. 1. ECONOMICS. B.S, Okla. State, 36; M.S, Illinois, 38; Soc. Sci. Res. Coun. scholar, Harvard, 46-47, Ph.D.(econ), 51. Agr. economist, adjustments south. agr, U.S. DEPT. AGR, 38-43, 46, agr. policy & prog. anal, 47-48, head farm classification & anal. prog, For. Opers. Admin, Paris, France, 52-54, head prod, income & costs sect, econ. res. div, 54-58, asst. dir, farm econ. res. div, 58-60, dir, develop. & trade div, Econ. Res. Serv, 61-67; DIR. ECON. ANAL. DIV, FOOD & AGR. ORGN, UN, 67- Agr. economist, Rhyuku Islands, U.S. Dept. Army, 49. U.S.N, 43-46. Agr. Econ. Asn.(award, 51; v.pres, 58-59, pres, 64-65). Rural development; farm size problems; production response. Publ: Co-auth, Size of farms in the United States, Tech. Bull. U.S. Dept. Agr. and Low production farms, Agr. Info. Bull; auth, Trends in size of commercial farms, Contemporary Readings Agr. Econ. Address: Giralamo Dandini 8, Rome, Italy.

BACHMURA, DR. FRANK THOMAS, b. Newark, N.J, May 27, 22; m. 55; c. 2. ECONOMICS. B.S, N.Y. Univ, 47; A.M, Chicago, 51, Ph.D.(econ), 53. Asst. prof, Wyoming, 52-53; Denison, 53-54; Vanderbilt, 54-59; Fulbright

prof, grad. sch. econ, Chile, 59-60; agr. economist, econ. res. serv, U.S. Dept. Agr, 60-63; ASST. PROF. ECON, INDIANA, 63- Vis. lectr, Buenos Aires & La Plata, 59; Univ. Center of Peru, Univ. Colombia & Valle, Colombia, 60; Soc. Sci. Res. Coun. travel grant, Int. Asn. Agr. Econ, Lyons, France, 64; co-dir, Indiana Univ-Andres Bello, Econ. Proj, Caracas 64-67. Mem, UNESCO Conf, Ohio, 55; land reform discussion leader, Int. Asn. Agr. Economists, Cuernavaca, Mex, 61; expert, Nat. Adv. Cmn. Food & Fiber, 66-67. U.S.A, 43-45. Am. Econ. Asn; Am. Agr. Econ. Asn; Latin Am. Studies Asn; Int. Asn. Agr. Econ. Agricultural and manpower policy; agriculture's role in economic development; areal development differentials; underemployment definition and measurement; rural poverty; urban-rural economic relationships; land reform; migration; Latin American economic growth. Publ: Man-land equalization through migration, Am. Econ. Rev; Underemployment and macroeconomic policy, Indian J. Agr. Econ, 64; Manpower and well-being in rural areas, Vol. V, Tech. Papers, Nat. Adv. Cmn. Food & Fiber, 67. Address: Dept. of Economics, Indiana University, Bloomington, Ind. 47401.

BACHRACH, PROF. ARTHUR J(ULIAN), b. New York, N.Y, Mar. 20, 23; m. 54; c. 2. PSYCHOLOGY. B.S, City Col. New York, 47; M.A, Western Reserve, 50; Ph.D, Virginia, 52. Psychologist, Cleveland State Receiving Hosp, 48-49; asst. clin. psychologist, Soc. Crippled Children, Ohio, 49, res. psychologist, 49-50; asst. neurol. & psychiat, med. sch, Virginia, 50-52, instr, 52-54, asst. prof, 54-57, assoc. prof, 57-62, dir. div. clin. med. & psychol, univ, 50-58, dir. div. behav. sci, med. sch, 58-62; PROF. PSYCHOL. & CHMN. DEPT, ARIZONA STATE, 62- Proj. dir. center res. on human performance in exotic environ, Off. Naval Res, Dept. Defense, Arizona State, 67- Consult, Barrow Neurol. Inst, Phoenix, Ariz. & Vet. Admin, Palo Alto, Calif, 62- Exec. ed, Neuropsychiat, 50-61. U.S.A, 43-46. Fel. AAAS; fel. Psychol. Asn; fel. Soc. Proj. Tech. & Personality Assessment; Soc. Gen. Systs. Res; Psychonomic Soc; N.Y. Acad. Sci; fel. Brit. Interplanetary Soc. Operant conditioning; group behavior; underwater human performance. Publ: Ed, Experimental foundations of clinical psychology, Basic Books, 62; auth, Psychological research: an introduction; 2nd Ed, Random, 65; Como Investigar en Psicologia: Introduccion a Las Tecnivas Operativas, Edicones Morata, Madrid, 66. Address: Dept. of Psychology, Arizona State University, Tempe, Ariz. 85281.

BACHRACH, PROF. PETER, b. Chicago, Ill, June 19, 18; m; c. 4. POLITICAL SCIENCE. A.B, Reed Col, 42; fel, Harvard, 45-46, A.M, 46, Ph.D, 51. Economist, War Labor Bd, 43-44; tutor govt, Harvard, 45-46; instr. POLIT. SCI, Bryn Mawr Col, 46-48, asst. prof, 48-54, assoc. prof, 54-63, prof. & chmn. dept, 63-68; PROF, TEMPLE, 68- Vis. prof, Swarthmore Col, 53-54; Haverford Col, 62-66; Pennsylvania, 67-68. Ford Found. fel, 51-52; Rockefeller Found. fels. polit. & legal theory, 57-58, Am. Insts, 64-65. Consult, Off. Econ. Opportunity, 66-68; mem. selection cmt, Woodrow Wilson Nat. Fel. Found, 66-68. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Political theory as it relates to fundamental and current problems. Publ: The theory of democratic elitism, Little, 67; co-auth, Two faces of power, Am. Polit. Sci. Rev, 61; auth, Elite consensus and democracy, J. Polit, 62. Address: 673 Ardmore Ave, Ardmore, Pa. 19003.

BACK, PROF. KURT W(OLFGANG), b. Vienna, Austria, Oct. 17, 19; nat; div; c. 1. SOCIAL PSYCHOLOGY. B.S, N.Y. Univ, 40; M.A, California, Los Angeles, 41; Ph.D.(group psychol), Mass. Inst. Tech, 49. Soc. sci. analyst, U.S. Bur. Census, 49-51; res. assoc, bur. appl. soc. res, Columbia, 51-53; soc. sci. res. center, Puerto Rico, 53-56; res. assoc. prof, North Carolina, 56-59; assoc. prof. SOCIOL. & MED. SOCIOL. IN PSYCHIAT, DUKE, 59-62, PROF, 62- Res. assoc. Jamaica Pop. Proj, Conserv. Found, 55-57; guest investr, Rockefeller Univ, 67-68. Spec. res. consult, P.R. Model Housing Bd, 53-54. Deroy award, 56; Burgess award, 61. U.S.A, 43-46. Psychol. Asn; Sociol. Asn; Statist. Asn; Asn. Pub. Opinion Res. Methodology of social research, communication, decision-making and influence; professionalization; housing; population control and policy; sociobiology; development of self-image. Publ: Co-auth, The June bug: a study in hysterical contagion, Appleton, 68 & The family and population control: a Puerto Rican experiment in social change, 59; auth, Slums, projects and people: social psychological factors in relocation, 62. Address: Dept. of Sociology, Duke University, Durham, N.C. 27706.

BACK, DR. WILLIAM BURL, b. Eubank, Ky, Jan. 24, 20. AGRICULTURAL ECONOMICS. B.S, Berea Col, 41; M.S, Kentucky, 47; Chicago, 47-48; Ph.D, Iowa State Col, 52. Asst. farm mgt, Kentucky, 48-50; asst. prof. agr. econ, Ore. State Col, 52-55; assoc. prof, Okla. State, 55-59, prof, 59-63; AGR. ECONOMIST, ECON. RES. SERV, U.S. DEPT. AGR, 63- Mem. staff, President's Nat. Adv. Cmn. Rural Poverty, 66-67. U.S.N, 41-45. Econ. Asn; Agr. Econ. Asn. Economic development, especially the low income areas within United States; economics of resource development, especially public resource development affecting American agriculture. Publ: Economics in formulating plans for eastern river basins, J. Farm Econ, 64; co-auth, Perspectives on content and methodological problems of land economics & Elements of classification, In: Methods for land economics research, Univ. Nebraska, 66. Address: Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

BACKENHEIMER, DR. MICHAEL S(AUL), b. Washington, D.C, July 29, 36; m. 67. SOCIOLOGY. B.A, Maryland, 59, M.A, 60; Ph.D.(sociol), American Univ, 66. Pub. health analyst, U.S. Pub. Health Serv, 62, statistician, 62-64; pub. welfare res. analyst, Dept. Health, Ed. & Welfare, 64-66; SURV. STATISTICIAN, U.S. PUB. HEALTH SERV, 66- U.S.P.H.S, 67-, Scientist. Sociol. Asn. Survey research; social psychology; research methods. Address: 7777 Maple Ave, Apt. 509, Takoma Park, Md. 20012.

BACKMAN, PROF. CARL W, b. Canandaigua, N.Y, July 1, 23; m. 47; c. 3. SOCIOLOGY. B.A, Oberlin Col, 48; M.A, Indiana, 50, Ph.D, 54. Instr. SOCIOL, Arkansas, 51-55; asst. prof, NEVADA, 55-59, assoc. prof, 60-66, PROF, 66-, CHMN. DEPT, 67- Summers, res. assoc, inst. sci. & tech, Arkansas, 52, vis. prof, California, Los Angeles, 59. Consult, crew res. lab, Air Force Personnel & Training Res. Center, Stead Air Force Base, Nev, 56-58; Naval Retraining Center, Calif, 57; Vet. Admin, Nev, 59-60; prog. dir. sociol. & soc. psychol, Nat. Sci. Found, 65-67, consult, 67-; U.S. Army Dept. Calif, 67- U.S.A, 43-46. Soc. Exp. Social Psychol; Am. Sociol. Asn; Psychol. Asn; Asn. Pub. Opinion Res; Int. Sociol. Asn. Social psychology, especially interaction in small groups. Publ: Co-auth, Social psychology, 64 & Problems in social psychology, 66, McGraw; co-auth, An interpersonal approach to personality, In: Progress in experimental personality research, Academic, Vol. II, 65. Address: Dept. of Sociology, University of Nevada, Reno, Nev. 89507.

BACKMAN, PROF. JULES, b. New York, N.Y, May 3, 10; m. 35; c. 2. ECONOMICS. B.C.S, N.Y. Univ, 31, A.M, 32, M.B.A, 33, D.C.S, 35; Brookings Inst, 43. Instr. ECON, SCH. COMMERCE, ACCT. & FINANCE, N.Y. UNIV, 38-44, asst. prof, 44-46, assoc. prof, 46-50, prof, 50-60, RES. PROF, 60- Consult, New York City, 67. Tech. adv, Off. Price Admin, 43; President's Cost of Living Cmt, 44; steel & R.R. industs, 44-62; Nat. Indust. Conf. Bd, 38-39, 40, 45-46, 59-61; Surety Asn. Am, 48-49, 54-56; N.Y. State Legis, 53. Mem, Governor Rockefeller's Cmt. Milk Mkt, 61-65; nat. mkt. adv. cmt, U.S. Dept. Commerce, 67- Econ. Asn; Statist. Asn. Prices; wages; industry economics; advertising; chemical economics; anti-trust. Publ: Price practices and price policies; Wage determination; Advertising and competition, New York Univ, 67. Address: School of Commerce, Accounts & Finance, New York University, Washington Square, New York, N.Y. 10003.

BACKSTROM, DR. CHARLES H(ERBERT), b. Valley City, N.Dak, Oct. 5, 26; m. 57; c. 4. POLITICAL SCIENCE. A.B. & B.S, Moorhead State Col, 49; M.A, Wisconsin, 53, univ. fel, 53-54, Knapp fel, 54-55, Ph.D.(polit. sci), 56. From instr. to ASSOC. PROF. POLIT. SCI, East. Mich. Col, 55-59; MINNESOTA, MINNEAPOLIS, 59- Am. Polit. Sci. Asn. congressional fel, 57; Nat. Center for Ed. Polit. fel, 65-66. Legis. asst. U.S. House of Rep, 58-59. Campbell prize, 54. U.S.A, 44-47. Polit. Sci. Asn. American government; political parties, electoral behavior; legislative process. Publ: Co-auth, Survey research, Northwestern Univ, 63; Recount, Nat. Documents, 64. Address: 70 Arthur Ave. S.E, Minneapolis, Minn. 55414.

BACKUS, PROF. OLLIE L, b. Harbor Springs, Mich, Aug. 12, 08. SPEECH PATHOLOGY, PSYCHOLOGY. B.A, Michigan, 29, M.A, 30; Ph.D.(speech path), Wisconsin, 33. Instr, high sch, Mich, 26-27; vis. instr. speech, Rockford Col, 30-31; speech therapist, pub. schs, Wis, 33-35; instr. speech, Grinnell Col, 35-37; prof. speech & dir. speech clin, Slippery Rock State Col, 37-43; asst. prof. speech, Michigan, 43-49; assoc. prof. speech & dir. speech clin, Alabama, 49-52, prof, 52-60; vis. prof. SPEECH, SOUTHERN CALIFORNIA, 60-65, CLIN. PROF, 65- Psychol. Asn; Speech & Hearing Asn. Psychological foundations of speech; group therapy. Publ; Auth, Speech in education: A guide for the classroom teacher; co-auth, Speech therapy with children; auth, Study of psychological processes in speech therapists, In: Psychological and psychiatric aspects of speech and hearing. Address: 86 E. Highland, Sierra Madre, Calif. 91024.

BACON, PROF. DOROTHY C(AROLIN), b. Beloit, Wis, Feb. 25, 02. ECONOMICS. A.B, Radcliffe Col, 22; A.M, 24, Ph.D, 28. Statist. asst, res. div, Fed. Reserve Bd, 22-23; instr. ECON, Vassar Col, 24-26; from instr. to assoc. prof, SMITH COL, 27-38, prof, 38-56, ROBERT A. WOODS PROF, 56- Fulbright prof, Philippines, 56-57. Res. assoc, Nat. Bur. Econ. Res, 30-31; sr. res. asst, Fed. Deposits Ins. Corp, 35-36; prin. res. officer, Works Progress Admin, 36-37; head res. div, non-ferrous price br, Off. Price Admin, 41-42, asst. div. economist, food price div, 42-45, consult, 45-47. Consult, food & restaurant price div, Off. Price Stabilization, 51-52. Econ. Asn; Asn. Asian Studies; Asia Soc. Banking and business cycles; recent economic history. Publ: Recent economic history of five small towns. Address: Dept. of Economics, Smith College, Northampton, Mass. 01060.

BACON, DR. ELIZABETH E(MALINE), b. Whittier, Calif, July 29, 04; div; c. 1. CULTURAL ANTHROPOLOGY. B.A, Smith Col, 27; hon. traveling fel. from Yale, U.S.S.R, 33-34, traveling fel, Iran & Afghanistan, 38-39; Ph.D. (anthrop), California, 51. Asst, Inst. Human Rels, 35-36; Soc. Sci. Res. Coun. grant, 40; instr, Far East. dept, Washington (Seattle), 42-43; res. analyst, U.S. Dept. State, Iran & Afghanistan, 44-46; lectr, California, Los Angeles, 48-49; asst. prof. anthrop, Washington (St. Louis), 49-54; dir, India Handbook Proj, Cornell, 55-56, vis. prof, univ, 56-57; consult. anthrop, Collier's Encyclop, 57-59; mem. bd. adv. ed, Encyclop. Americana, 59-63; acad. anthrop. res, 63-68; PROF. ANTHROP. & ASIAN STUDIES, MICH. STATE, 68- Am. Coun. Learned Soc. & Wenner-Gren Found. res. grants, 64; adj. prof, New Col, Hofstra, 65-66. Fel. Anthrop. Asn; Soc. Ethnomusicol; Royal Cent. Asian Soc; Mongolia Soc. Central Asia and Iranian sphere of the Middle East; culture areas; pastoral nomadism. Publ: Ed, India, a sociological background; auth, Obok, a study of social structure in Eurasia; Central Asians under Russian rule: a study in culture change, Cornell, 66. Address: Dept. of Anthropology, Michigan State University, East Lansing, Mich. 48823.

BACON, DR. FRANK R, JR, b. Anderson, S.C, Apr. 21, 27; m. 49; c. 4. MARKETING, ECONOMICS. B.S.E.E, Purdue, 52; M.B.A, Michigan, 55, Ph.D. (mkt, econ, statist), 65. Proj. engr, electronic defense group, Michigan, 53-56, res. prog. dir. tech. change, indust. develop. div, 57-65; supvr. econ. planning, prod. planning dept, Univac Div, Sperry Rand, 56-57; ASSOC. PROF. RES. METHODS, MICH. STATE, 65- U.S.M.C, 45-48, Sgt. AAAS; Inst. Mgt. Sci; Mkt. Asn. Relation of technological change and economic growth; economic development systems analysis; product planning; market research; operations research; electronics. Publ: Co-auth, Anatomy of an industry: a study of the Michigan machine tool industry in its national and international setting, 63 & Research emphasis in Michigan universities: a comparison of the research patterns of Michigan universities with state and national research and industrial trends, 64 & auth, An investigation of technological change at the firm level, 65, Inst. Sci. & Tech, Univ. Michigan. Address: Dept. of Marketing & Transportation, Graduate School of Business Administration, Michigan State University, Eppley Center, East Lansing, Mich. 48823.

BACON, PROF. (HOLLIS) PHILLIP, b. Cleveland, Ohio, July 10, 22; m. 51; c. 2. GEOGRAPHY. A.B, Miami (Fla), 48, M.A, 51; Knudsen fel, George Peabody Col, 53-54, Jessie H. Jones fel, 54-55, Ed.D.(geog), 55. Teacher, Castle Heights Mil. Acad, 46-47; Army & Navy Acad, 48-53; asst. prof. geog,

Pittsburgh, 55-56; vis. asst. prof, teachers col, Columbia, 56-57, assoc. prof, 57-60, prof, 60-63; dean grad. sch, George Peabody Col, 63-64; PROF. GEOG, Columbia, 64-66; WASHINGTON (SEATTLE), 66- Jennings scholar lectr, 64; co-dir, Tri-Univ. Proj. Elem. Ed, 67-69; summers, instr, George Peabody Col, 54 & 55, vis. prof, Colorado, 62. Consult, pub. schs, 57-; soc. sci. proj, Ed. Res. Coun. of America, 61-; U.S. Off. Ed, 64-; mem. bd. consult, World Book Atlas, 66- Mem. steering cmt, High Sch. Geog. Proj, 66-69. U.S.N.R, 42-45. Asn. Am. Geog; fel. Am. Geog. Soc; fel. Nat. Coun. Geog. Ed.(pres, 66); fel. Royal Geog. Soc. Historical geography; geographic education; regional economies of Australia, New Zealand and Oceania. Publ: Life Pictorial Atlas of the world; co-auth, Knowing our neighbors in the United States, Holt, 66; auth, Childrens Picture Atlas of the world, Golden Press, 66. Address: Dept. of Geography, University of Washington, Seattle, Wash. 98105.

BACON, PROF. SELDEN D(ASKAM), b. Pleasantville, N.Y, Sept. 10, 09; m. 34, 46; c. 3. SOCIOLOGY. A.B, Yale, 31, M.A, 35, Ph.D.(sociol), 39. Asst. in charge police surv, Yale, 35-36; ed, Bul, Pa. Chiefs Police, 38-39; from instr. to asst. prof. sociol, Yale, 39-47, assoc. prof, 47-52, dir. center alcohol studies & summer sch. of alcohol studies, 50-62, prof. sociol, 56-62; PROF. SOCIOL. & DIR. CENTER ALCOHOL STUDIES, RUTGERS, 62- Fel, Branford Col, 43-; vis. prof, Utah, 49. Consult, cmn. inserv. training, State Police Dept, Pa, 38-39. Secy-treas, Nat. Coun. Alcoholism, 44-49; chmn. bd, Conn. Cmn. Alcoholism, 45-60; mem, Nat. Safety Coun. Cmt. Alcohol & Drugs, 60-; bd. dirs, N.Am. Asn. Alcoholism Progs, 64-; mem, Nat. Adv. Cmt. Alcoholism, 66-; prog. chmn, Int. Cong. Alcohol & Alcoholism, Wash, D.C, 68- Sociol. Asn; Indust. Med. Asn. Drinking custom and pathology; sociologic aspects of health and medicine. Publ: Drinking in college; Administration of alcoholism rehabilitation programs; The classic temperance movement of the U.S.A: Impact today on attitudes, action and research, Brit. J. Addiction, 67. Address: Center of Alcohol Studies, Rutgers, The State University, New Brunswick, N.J. 08903.

BACON, PROF. THEODORE SPAULDING, JR, b. Springfield, Mass, June 13, 18; m. 43; c. 3. URBAN PLANNING. B.A, Amherst Col, 42; Amherst Mem. fel, Mass. Inst. Tech, 42, M.C.P, 56; Columbia, 44. Vis. lectr. city planning, MASSACHUSETTS, AMHERST, 56-61, ASSOC. PROF. CITY PLANNING & URBAN PROBS, 61- Asst. dean, Amherst Col, 46-53, assoc. dean, 53-61, asst. prof, 60-61; vis. assoc. prof, grad. sch. pub. affairs, State Univ. N.Y. Albany, 67-68. Town & city planning consult, 55- U.S.N.R, 42-46, Lt. Inst. Planners; Int. Fedn. Housing & Planning. Urban affairs; municipal and regional planning; planning legislation; zoning. Address: Dept. of Landscape Architecture, University of Massachusetts, Wilder Hall, Amherst, Mass. 01002.

BADAL, DR. ALDEN WESLEY, b. Turlock, Calif, Oct. 21, 29; m. 50; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, San Francisco State Col, 54; M.A, Stanford, 57, Ph.D, 59. Teacher, pub. schs, Calif, 49-56; RES. ASST. ED, STANFORD, 57-; DIR. RES, OAKLAND PUB. SCHS, 65- Psychologist, San Mateo County Schs, 59; res. asst, Oakland Unified Sch. Dist, 59-65; part-time assoc. prof, San Francisco State Col, 65-66; summer vis. prof, Pacific (Calif), 61. Chmn, State Bd. Ed. Adv. Cmt. Statewide Testing, 64-67. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Educational and personality assessment; educational and counseling psychology; evaluation of special educational programs; identification of personnel with school administration potential. Publ: Relationship of selected test measures to administrator success in the elementary school; co-auth, Achievement and racial composition of schools, 9/65 & auth, What next for state testing in California, 11/66, Calif. J. Ed. Res. Address: Research Dept, Oakland Public Schools, 1025 Second Ave, Oakland, Calif. 94606.

BADENHOP, PROF. MERTON B(IERMAN), b. Kensington, Kans, July 18, 19. AGRICULTURAL ECONOMICS. B.S, Kans. State Col, 41; M.S, La. State, 42; Tennessee, 46-47; Gen. Ed. Bd. fel, Purdue, 48-49, Ph.D, 51. Assoc. prof. AGR. ECON, TENNESSEE, 46-56, PROF, 56-, AGR. ECONOMIST, 56-, from asst. agr.economist to assoc. agr. economist, 46-56. Group leader, Univ-India Agr. Prog. Team, 58-64. U.S.A, 42-46, Capt. Marketing and economic development, particularly agriculture. Publ: Selling and buying livestock by Tennessee farmers; Cattle pricing in the auction market; Economic survey of the Upper Cumberland Area, Tenn. Agr. Exp. Sta, 67. Address: College of Agriculture, University of Tennessee, Knoxville, Tenn. 37916.

BADGER, PROF. DANIEL DELANO, b. Birds Nest, Va, Apr. 13, 33; m. 56; c. 4. AGRICULTURAL ECONOMICS. B.S, Va. Polytech, 54; M.S, Okla. State, 58; Ph.D.(agr. econ), Mich. State, 64. Res. asst. AGR. ECON, Okla. State, 56-57, instr, 57-58; fel, Mich. State, 58-60; asst. prof, Va. Polytech, 60-64; PROF, OKLA. STATE, 64- Proj. leader. agr. econ, Univ. Nebraska Mission Colombia, 67- U.S.A.R, 54-56, Maj. Agr. Econ. Asn. Resource economics related to uses of water for irrigation, flood control and recreation; production economics relating to farm enterprises. Publ: Co-auth, Estimation of irrigation water values in western Oklahoma, Processed Series P-528, 2/66, Effect of upstream watershed development on prices and values of farmland in the upper Washita River basin of Oklahoma, Processed Series P-529, 3/66 & Demand for selected recreational activities in south central Oklahoma, tech. bull. T-126, 5/68, Okla. Agr. Exp. Sta. Address: Dept. of Agricultural Economics, Oklahoma State University, Stillwater, Okla. 74074.

BADGER, HENRY G(LENN), b. Hardin, Ill, June 10, 92; m. 17; c. 3. EDUCATION. B.A, DePauw, 17; M.A, Indiana, 25. Teacher, pub. schs, Ill, Ind. & Philippines, 12-15, 17-25; supt, Ind, 25-27; exam, U.S. Civil Serv. Cmn, 27-28, 30-31; U.S. Off. Ed, 28-30, specialist higher ed. statist, 31-62; RETIRED. Contrib, Biennial Surv. Ed, 30-62; statist. adv, Columbia Univ. Surv. of Higher Ed. of Negroes, 64. Higher education finance and statistics; higher education of Negroes; junior college accounting and finance. Publ: Junior college accounting manual; Student body size in institutions of higher education. Address: 3711 Benton St, Washington, D.C. 20007.

BADGER, DR. RALPH E(ASTMAN), b. Lowell, Mass, Feb. 3, 90. ECONOMICS, STATISTICS. A.B, Dartmouth Col, 13; M.C.S, Yale, 14, Ph.D, 21. Prof, Brown, 21-29; exec. v.pres, Union Guardian Trust Co, 29-44; proprietor, RALPH E. BADGER ASSOCS, INC, 46-52, pres, 52-67, SOLE PROPRIETOR, 67- Pres, Invest. Counsr, Inc, 34-59; assoc, Standard Res. Consult, Inc, 50-Statist. Asn; Econ. Asn; Soc. Appraisers. Valuation of industrial securities; problems in investments; investment principles and practices. Publ: A complete guide to investment analysis, McGraw, 9/67. Address: 1109 Hospital Trust Bldg, Providence, R.I. 02903.

BADGLEY, DR. JOHN H, b. Missoula, Mont, Sept. 24, 30; m. 52; c. 2. POLITICAL SCIENCE. B.A, Montana State, 52; M.A, Hopkins, 57; Ford Found. for. area fel, 60-62; Ph.D.(polit. sci), California, Berkeley, 62. Res. fel. Burmese polit, Cornell, 60-61; asst. prof. polit. sci, Miami (Ohio), 62-64; vis. prof. Southeast Asian studies, Kyoto, 64-65; asst. prof. polit. sci, Miami (Ohio), 65-66; ASSOC. PROF. ASIAN POLIT, SCH. ADV. INT. STUDIES, HOPKINS, 67- Wash. For. Policy Res. Center res. fel, 67- Mem. seminars, Southeast Asian Develop. Adv. Group. Adj. Gen, U.S.A, 52-55, 1st Lt. Am. Polit. Sci. Asn; Asn. Asian Studies; Burma Res. Soc. Comparative politics, Southeast Asia, with primary reference to Burma; political development in Asia, especially indicators of change. Publ: Co-auth, Policies towards China, McGraw-Hill, 65, The communist revolution in Asia, Prentice-Hall, 65, 68; & Japan's future in Southeast Asia, Kyoto Univ, 66. Address: School of Advanced International Studies, Johns Hopkins University, 1740 Massachusetts Ave, Washington, D.C. 20034.

BADGLEY, L. DURWARD, b. Point Pleasant, N.J, May 7, 98; m. 20; c. 2. ECONOMICS. Columbia; American Univ. Owner, Badgley & Co, 27-31; ed, The Real Estate Economist, N.J, 31-34; sr. economist, Fed. Housing Admin, 34-39, chief mkt. analyst, N.Y. dist, 39-42; dep. regional rep. & chief economist, Nat. Housing Agency, 42-45; dir. real estate & mortgage res, Mutual Life Ins. Co, 45-63; V.PRES. & CHIEF ECONOMIST, ECON. & MKT. RES. CORP, 64- Consult, cent. statist. bd, U.S. Govt, 35-40. Mem. tech. adv. cmt, Census of Housing, 39-41, 47-53, 57-; chmn. tech. adv. cmt, financial census of housing, U.S. Bur. Census, 49-; mem. econ. policy cmt, Life Ins. Asn. Am, 52-58. U.S.A, 17-18, Sgt. Econ. Asn; Econom. Soc; Asn. Bus. Econ; Finance Asn; Regional Sci. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Land economics; real estate cycle; regional science and city analysis. Publ: Housing demand of workers in Manhattan; Mortgage credit needs of the sixties. Address: Economic & Market Research Corp, 40 Knollwood Rd, Short Hills, N.J. 07078.

BADGLEY, PROF. ROBIN F, b. Montreal, Que, May 6, 31; m. 59; c. 3. SOCIOLOGY. B.A, McGill, 52, M.A, 54; M.A, Yale, 55, Ph.D, 57. Lectr. sociol, Sir George Williams Col, 53-54; asst. in instr, Yale, 55-56, instr. sociol. & Russell Sage res. fel. pediat, 57-58; asst. prof. prev. med, Vermont, 58-59; soc. & prev. med, Saskatchewan, 59-62, assoc. prof. & acting head dept, 62-63; sr. mem. tech. staff, Milbank Mem. Fund, N.Y, 63-68; PROF. BEHAV. SCI. & DIR. UNIT, TORONTO, 68- Vis. lectr, Yale, 63-; lectr, Columbia, 65- Ed, Milbank Mem. Fund Quart, 63- Soc. Security Admin. rep, adv. panel coop. res. & demonstration grants prog, Welfare Admin, D.C, 66-69; mem. rev. cmt, Nat. Inst. Child Health & Human Develop, 66-70. Fel. Am. Pub. Health Asn; fel. Am. Sociol. Asn; Asn. Teachers Prev. Med; Can. Pub. Health Asn; Can. Polit. Sci. Asn; Can. Econ. Asn. Medical sociology. Publ: Ed, Behavioral science and medical education in Latin America, Milbank Mem. Fund, 66 & Spanish transl; co-auth, Doctors' strike: medical care and conflict in Saskatchewan, Macmillan Can. & Atherton, N.Y, 67. Address: Dept. of Behavioural Sciences, School of Medicine, University of Toronto, Toronto 2, Ont, Can.

BAEHR, DR. GEORGE O(TTO), Psychol, see 10th ed, Soc. & Behav. Vols.

BAEHR, DR. MELANY E(RNA), Psychol, see 10th ed, Soc. & Behav. Vols.

BAEKELAND, DR. FREDERICK, b. Bronxville, N.Y, Sept. 3, 28; m. 50; c. 2. PSYCHIATRY. B.S, Columbia, 51; M.S, Yale, 54, M.D, 58; fel, State Univ. N.Y. Downstate Med. Center, 62-64, D.M.Sc.(psychiat), 67. Instr. PSYCHIAT, STATE UNIV. N.Y. DOWNSTATE MED. CENTER, 64-67, ASST. PROF, 68- U.S.A, 46-48. Asn. Psychophysiol. Study Sleep; Psychiat. Asn; Am. Med. Asn. Sleep: effects of drugs, physiology, dream content, requirements. Publ: Exercise and sleep patterns in college athletes, Perceptual & Motor Skills, 66; Pentobarbital and dextroamphetamine sulfate: effects on the sleep cycle in man, Psychopharmacologia, 67; Effects of a stressful presleep experience on electroencephalograph recorded sleep, Psychophysiology, 68. Address: Dept. of Psychiatry, State University of New York Downstate Medical Center, 450 Clarkson Ave, Brooklyn, N.Y. 11203.

BAER, DR. DANIEL J(OSEPH), b. Philadelphia, Pa, Sept. 28, 29; m. 57; c. 3. PSYCHOLOGY. B.A, La Salle Col, 55; M.A, Fordham, 58, Ph.D, 61. Lectr. psychol. & lab. asst, Hunter Col, 58-59; instr, Fordham, 59-61, lie detection exam. & supvr. grant, 60-61; res. psychologist, aerospace med. lab, Wright-Patterson Air Force Base, Ohio, 61-62; asst. prof. PSYCHOL, BOSTON COL, 62-66, ASSOC. PROF, 66- Nat. Sci. Found. comput. training grant, Oklahoma, 59; Nat. Acad. Sci. fel, 61-62; statist. consult. grant, training center youth develop, Boston Univ, 65-66; res. analyst grant, Outward Bound, Inc, 66-67; res. consult. grant, Am. Insts. Res, 67-; Nat. Sci. Found. res. grant, Beloit Col, 68; NASA res. grant, Wallops Sta, Va, 68. U.S.A.F, 51-54, Lt. AAAS; Psychol. Asn; Statist. Asn; Pub. Health Asn. Smoking and behavior; biographical predictors of behavior; visual illusion perception; statistical procedures; computer applications; delinquent behavior. Publ: Factors in perception and rigidity, Perceptual & Psychomotor Skills, 64; Smoking attitude behavior and beliefs of college males, J.Soc. Psychol, 66; Sex differences in smoking attitude behavior and beliefs of college students, J. Psychol, 66. Address: 8 Morningside Ave, Natick, Mass. 01760.

BAER, PROF. DONALD M(ERLE), b. St. Louis, Mo, Oct. 25, 31; m; c. 3. PSYCHOLOGY. A.B, Chicago, 50, univ. fel, 55-56, U.S. Pub. Health Serv. fel, 56-57, Ph.D.(psychol), 57. Asst. prof. psychol, Washington (Seattle), 57-61, assoc. prof, 61-65; PROF. HUMAN DEVELOP. & PSYCHOL, HEAD DIV. CHILD DEVELOP. & RES. ASSOC. BUR. CHILD RES, KANSAS, 65- Consult, Vet. Admin, 63-; ment. health rev. panel, Nat. Inst. Ment. Health, 65-68; Kans. Neurol. Inst, 67- Fel. Psychol. Asn; fel. Soc. Res. Child Develop; Psychonomic Soc. Learning process, especially in young children as related to the development of personality and social behavior. Publ: Co-auth, Laboratory-experimental study of child behavior, In: Handbook of re-

search methods in child development & Child development. Address: Dept. of Human Development, University of Kansas, Lawrence, Kans. 66044.

BAER, DR. MAX F(RANK), b. Frankfurt, Germany, Nov. 10, 12; nat. GUIDANCE COUNSELING. LL.B, Creighton, 37; M.A, Columbia, 42; Ed.D, George Washington, 47. Dir, B'nai B'rith Voc. Serv. Bur, 38-54, NAT. DIR. B'NAI B'RITH YOUTH ORGN, 48- Vis. lectr, Catholic Univ; Bucknell; George Washington; Marquette. Consult, U.S. Dept. Labor, 61- Ed, Voc. Guid. Quart, 52. Mem. fed. adv. coun, Bur. Employ. Security, 48-58; nat. adv. cmt. young workers, Bur. Fair Labor Standards, 58-60; v.chmn, Coun. of Nat. Orgn. on Children & Youth; nat. adv. cmt. on occup. testing, U.S. Employ. Serv. Psychol. Asn. Occupational information; adolescent psychology; secondary education; social group work. Publ: Occupational information, its nature and use, Sci. Res. Assoc, 51, 54 & 64; contrib, Personnel & Guid. J, 48- Address: 4201 Cathedral Ave. N.W, Washington, D.C. 20016.

BAER, DR. THEODORE S(TEVENSON), Polit. Sci, Econ, see 10th ed, Soc. & Behav. Vols.

BAER, DR. WERNER, b. Offenbach, Germany, Dec. 14, 31; nat. ECONOMICS. B.A, Queens Col.(N.Y), 53; M.A, Harvard, 55, Ph.D, 58. Instr. ECON, Harvard, 58-61; asst. prof, Yale, 61-65; ASSOC. PROF, VANDERBILT, 65- Ford Found. vis. prof, Univ. São Paulo, 66-67, adv, Brazil & Latin Am, 67- Consult, U.S. Dept. Treas, 61. Am. Econ. Asn; Royal Econ. Soc. International trade; economic development; Brazilian economic growth and steel industry. Publ: Co-auth, Inflation and growth in Latin America, 64 & auth, Industrialization & economic development in Brazil, 65, Richard D. Irwin; The inflation controversy in Latin America, Latin Am. Res. Rev, spring 67. Address: Dept. of Economics, Vanderbilt University, Nashville, Tenn. 37203.

BAERNCOPF, DR. DAVID A(LEXANDER), b. Indianapolis, Ind, July 4, 22; m. 45; c. 2. ECONOMICS, STATISTICS. A.B, Indiana, 42; M.A, Stanford, 56, Ford Found. fel, 57-58, Ph.D.(econ), 61. Treas, Rost Jewelry Co, Ind, 46-53; asst. econ, Stanford, 55-56, acting instr, 56-57; asst, Nat. Bur. Econ. Res, 56-58; asst. prof. BUS. STATIST, SCH. BUS. ADMIN, OREGON, 58-62, ASSOC. PROF, 62-, CHMN. DEPT. ACCT. & BUS. STATIST, 67- Ford Found. faculty res. fel, 64-65. U.S.A.F, 43-46, Res, 46-60, Maj. Econ. Asn; Statist. Asn; Economet. Soc; Inst. Mgt. Sci. Business cycles and fluctuations; decision theory in business statistics. Publ: Co-auth, Survey of the economics of law practice, Univ. Oregon, 63. Address: School of Business Administration, University of Oregon, Eugene, Ore. 97403.

BAERREIS, PROF. DAVID A(LBERT), b. New York, N.Y, Nov. 2, 16; m. 43. ANTHROPOLOGY. B.A, Oklahoma, 41, M.A, 43; Ph.D.(anthrop), Columbia, 49. Instr. ANTHROP, WISCONSIN, 47-49, asst. prof, 49-51, assoc. prof, 51-55, PROF, 55- Mem, div. anthrop. & psychol, Nat. Res. Coun, 59-61. U.S.A, 43-46. AAAS. (v.pres. sect. H, 63); Anthrop. Asn; Soc. Archaeol. (secy, 56-59, pres, 62). Archaeology and ethnology of North and South America. Publ: Preceramic horizons of northeastern Oklahoma, Anthrop. Paper, Mus. Anthrop, Univ. Mich; Report on a bluff shelter in northeastern Oklahoma D1-47 & Archaeological investigations near Mobridge, South Dakota, Arch. Archaeol. Address: 1233 Sweetbriar Rd, Madison, Wis. 53705.

BAERWALD, PROF. FRIEDRICH, b. Frankfurt, Germany, Oct. 14, 00; m. 48. ECONOMICS. Freiburg, 19-20; Munich, 20; J.D, Frankfurt, 23. Counsr. Fed. Ministry Labor, Germany, 26-33; instr. ECON, FORDHAM, 35-37, asst. prof, 37-46, assoc. prof, 46-55, PROF, 55- Lectr, Sem. Brooklyn Diocese, N.Y., 38-; vis. prof, Univ. Münster, 61-62. Econ. Asn. Economics of labor; economic sociology and theory; sociology of economic systems. Publ: Fundamentals of labor economics; Economic system analysis; Economic progress and problems of labor, 67. Address: Dept. of Economics, Fordham University, New York, N.Y. 10458.

BAERWALD, DR. HANS H, b. Tokyo, Japan, June 18, 27; nat; m. 50; c. 3. POLITICAL SCIENCE. B.A, California, 50, M.A, 52, Ph.D, 56; Ford Found. fel, Japan, 54-56. Asst. POLIT. SCI, California, 52-54; Miami (Ohio), 56-61; vis. lectr, California, 61; assoc. prof, Miami (Ohio), 61-62; lectr, CALIFORNIA, LOS ANGELES, 62-65, ASSOC. PROF, 65- Vis. assoc. prof, Int. Christian Univ, Tokyo, 65-67; Rockefeller Found. res. grant, 65-67; dir, Univ. Calif. Study Center, Mitaka, Tokyo, 65-67. Summer mem, Ford Found. Sem. Int. Rels, 57, consult, for. area training fel. prog, 61. U.S.A, 45-49, 1st Lt. Polit. Sci. Asn; Asn. Asian Studies. Postwar Japanese politics; role of political leadership in the establishment of democratic political systems. Publ: Purge of Japanese leaders under the occupation; co-auth, American government; The American republic, Harper, 64. Address: Dept. of Political Science, 4289 Social Sciences Bldg, University of California, Los Angeles, Calif. 90024.

BAEUMLER, DR. WALTER L, b. Nurenberg, Germany, Apr. 13, 28; U.S. citizen; m. 53; c. 3. SOCIOLOGY. M.S.W, Sch. Soc. Work, Mannheim, Germany, 55; B.A, Omaha, 59, M.A, 61; Ph.D.(sociol), Nebraska, 65. Prog. dir. group work, Neighborhood House, Bremen, Germany, 53-55; Settlement House, Omaha, Nebr, 55-58; asst. prof. SOCIOL, Dana Col, 63-65; ASSOC. PROF, MINNESOTA, DULUTH, 65- Res. fel, Minnesota, 65-66, Off. Int. Progs. res. grant, 66- Consult. int. student exchange, Coun. Student Travel, N.Y, 55-; model city planning, Duluth, 67- Sociol. Asn. Urban change; demography; minority relations; international relations. Publ: Correlates of participation, Sociol. Inquiry, spring 65. Address: Dept. of Sociology, University of Minnesota, Oakland Ave, Duluth, Minn. 55812.

BAGBY, DR. JAMES WILLIS, b. Waynesville, N.C, Feb. 27, 12; div. SOCIAL PSYCHOLOGY. B.S, E.Tenn. State Col, 34; fel, Duke, 36-37, M.A, 36; cert, Wash. Sch. Psychiat, 52; Ph.D.(soc. psychol), Columbia, 55. Teacher, pub. schs, Tenn, 32-36; Md, 37-41; dir. training, Glenn L. Martin Co, Md. & Nebr, 41-43; psychologist, N.Y. Post Grad. Hosp, New York, 46-48; res. assoc. psychol, Princeton, 54-56; assoc. psychologist psychother, Roosevelt Hosp, New York, 56-67; SR. PSYCHOL. CONSULT, ED. SERV. BUR, 67- Lectr, Nebraska, 42-43; private practice, 56- Consult, pub. schs, Nebr, 41-43. Mem, bd. expert exam. clin. psychol, Fed. Civil Serv. Cmn, 48-52. U.S.N.R, 43-46, 48-54, Lt. Comdr. Fel. AAAS; Soc. Res. Child Develop; N.Y. Acad. Sci. Psychoanalysis; visual perception and learning theory; ego development in children; psychoanalytic concepts on object relations theory. Publ: Standard psychodiagnostic record series; Cross-cultural study of perceptual predominance in binocular rivalry, J. Abnorm. & Soc. Psychol. Address: 151 E. 80th St, New York, N.Y. 10021.

BAGBY, PROF. WESLEY M(ARVIN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAGDON, BRUNSWICK A(LBERT), b. Chicago, Ill, Aug. 10, 09; m. 38; c. 1. ECONOMICS. B.Ph, Chicago, 32. Advert. dir, Chicago Dist, Firestone Tire & Rubber Co, 34-40; REGIONAL DIR, BUR. LABOR STATIST, U.S. DEPT. LABOR, Mid-West. Region, 41-43, Southwest-Region, 46-47, SOUTH. REGION, 48- Summer lectr, Mississippi, 54-58. Consult, Joint Congr. Cmt. Econ, 47. Chmn. U.S. Del, UN Textile Indust. Meeting, Switz, 55, adv, 58. Awards, U.S. Dept. Labor, 55, Univ. Chicago Alumni Asn, 60-61. U.S.N.R, 43-46, Lt. Statist. Asn; Econ. Asn; Heart Asn. Economic research of manpower, employment, earnings, labor turnover, cost of living, wages and industrial relations, productivity and industrial accidents and injuries. Publ: Japanese wartime standard of living and utilization of manpower. Address: Southern Regional Office, U.S. Dept. of Labor, Suite 540, 1371 Peachtree St. N.E, Atlanta, Ga. 30309.

BAGGALEY, PROF. ANDREW R(OBERT), b. Cleveland, Ohio, Dec. 1, 23; m. 49; c. 2. PSYCHOLOGY. A.B, Harvard, 47, Ed.M, 49; Ph.D.(psychol), Chicago, 52. Res. assoc, psychol, Illinois, 52-54; asst. prof, Wisconsin, Milwaukee, 54-58, assoc. prof, 58-61; Temple, 61-64, PROF, 64-66; ED, PENNSYLVANIA, 66- U.S.A, 43-46, Psychol. Asn; Psychomet. Soc. Personality measurement; statistics; concept learning. Publ: Intermediate correlational methods, Wiley, 64; Table to facilitate comparison of proportions by slide rule, Psychol. Bull; Religious influence on Wisconsin Voting, 1928-1960, Am. Polit. Sci. Rev. Address: Graduate School of Education, University of Pennsylvania, Philadelphia, Pa. 19104.

BAGLEY, PROF. WILLIAM C(HANDLER), JR, b. Champaign, Ill, Jan. 26, 09; m. 54; c. 2. ECONOMICS. A.B, Yale, 30; Ph.D, Columbia, 42. Instr. ECON, RUTGERS, 38-42, asst. prof, 46-50, ASSOC. PROF, 50- Econ. consult, N.J. Coun. Econ. Ed. Sect. chief, War Shipping Admin, 42-44. U.S.N.R, 44-46, Lt. AAAS; Econ. Asn; Acad. Polit. Sci. Economics, experience and analysis; soil exhaustion and the civil war; understanding economics. Address: Dept. of Economics, Rutgers, The State University, New Brunswick, N.J. 08903.

BAHL, DR. ROY W, b. Miami, Fla, June 28, 39; m. 62. ECONOMICS. A.B, Greenville Col, 61; M.A, Kentucky, 63, Ph.D.(econ), 65. Res. assoc. econ, bur. bus. res, Kentucky, 64-65; asst. prof. West Virginia, 65-67; FEL. URBAN ECON, SYRACUSE, 67- Econ. Asn. Public finance; urban economics; quantitative methods. Publ: The structure of city spending in the United States, Univ. Kentucky, 68; co-auth, Factors associated with variations in state and local government expenditures, J. Finance, 67; auth, A land speculation model, J. Regional Sci, 68. Address: Dept. of Economics, Syracuse University, Syracuse, N.Y. 13210.

BAHN, DR. ANITA K, b. New York, N.Y, Feb. 9, 20; m. 45; c. 2. BIOSTATISTICS, EPIDEMIOLOGY. A.B, Hunter Col, 39; Cornell, 39-40, 60-61; American Univ, 40-44, 54-57; George Washington, 41, 55-56; Sc.D.(epidemiol, biostatist), Hopkins, 60. Statistician, War Prod. Bd, 42-43; Pub. Housing Admin, 43-44, 45-48; econ. analyst, U.S. Bur. Census, 44-45; statistician, Nat. Cancer Inst, 48-51; chief outpatient studies sect, off. biomet, Nat. Inst. Ment. Health, 51-66, chief register develop. & studies sect, 66; ASSOC. PROF. BIOSTATIST, WOMAN'S MED. COL. PA, 66- U.S. Pub. Health Serv. tuition training grant, 57-58; lectr, sch. nursing, Catholic Univ, 60-65; sch. hyg. & pub. health, Hopkins, 61-67; guest lectr, Walter Reed Army Inst. Res, 61-65; Center Training Community Psychiat, Berkeley, Calif, 62-66; Univs. Helsinki, Stockholm, Rochester, Colorado & St. Louis, 63-65. Assoc. mem. Int. Cong. Child Psychiat; mem. citizens cmt, WHO. AAAS; Statist. Asn; Econ. Asn; Biomet. Soc; fel. Pub. Health Asn; fel. Geront. Soc; Asn. Social Workers; fel. Orthopsychiat. Asn; World Fedn. Ment. Health; N.Y. Acad. Sci. Mental health. Publ: Psychiatric case register conference, 1965, Pub. Health Reports, 81:748-754; co-auth, A nationwide survey of outpatient psychiatric clinic functions, intake policies and practices, Am. J. Psychiat, 122:908-915; Early socialization experiences and intrafamilial environment—a study of psychiatric outpatient and control group children, Arch. Gen. Psychiat, 15:344-353. Address: Dept. of Biostatistics, Woman's Medical College, 3300 Henry Ave, Philadelphia, Pa. 19129.

BAHN, DR. CHARLES, b. Boston, Mass, Oct. 16, 28; m. 54; c. 2. PSYCHOLOGY. B.A, Yeshiva, 51; M.St, Yale, 58; Ph.D.(psychol), Columbia, 64. ASSOC. PROF. PSYCHOL, JOHN JAY COL, CITY UNIV. NEW YORK, 67- Instr, teachers col, Columbia, 67- Consult, N.Y. Tel. Co, 64-65; Psychol. Corp, Aspira, Inc, & N.Y. State Dept. Ed, 66-; Puerto Rican Forum Inc. & U.S. Off. Ed, 67- Psychol. Asn. Industrial and social psychology; personnel administration; urban problems. Publ: The expanded use of the exit interview in industry, Personnel J, 12/65; Psychological determination and individual responsibility, Teachers Col. Record, 12/66; co-auth, The typical student—a study of perceptions, J. Col. Student Personnel, spring 68. Address: 321 W. 24th St, New York, N.Y. 10011.

BAHOU, PROF. VICTOR SAMUEL, b. Watertown, N.Y, Jan. 18, 21; m. 44; c. 2. POLITICAL SCIENCE, SOCIOLOGY. A.B, Bard Col, 51; D.S.S, Syracuse, 60. Asst. citizenship, Syracuse, 53-54; instr. sociol, STATE UNIV. N.Y. COL. CORTLAND, 54-55, asst. prof, 56-60, assoc. prof. POLIT. SCI, 60-63, PROF, 63- Consult, N.Y. State Joint Legis. Cmt. Family & Matrimonial Laws, 65-66, N.Y. State Joint Legis. Cmt. Higher Ed, 66-67. U.S.A.A.F, 42-43. Polit. Sci. Asn; Sociol. Asn; Hist. Asn. Political sociology; youth and politics. Publ: P.T.A. reconsidered, Sch. & Soc; Anomie and desegregation, Soc. Studies; Must teachers remain in the shadows, Ed. Forum. Address: 54 Church St, Cortland, N.Y. 13045.

BAHR, DR. HOWARD M, b. Provo, Utah, Feb. 21, 38; m. 61; c. 4. SOCIOLOGY. B.A, Brigham Young, 62; Nat. Defense Ed. Act fel, Texas, 62-65, M.A, 64, Ph.D.(sociol), 65. Proj. dir. homelessness proj, bur. appl. soc.

res, Columbia, 65-68; ASSOC. PROF. SOCIOL, WASHINGTON STATE, 68- Sociol. Asn; Soc. Study Soc. Probs. Origins and consequences of homelessness among urban males; interrelations among various forms of racial differentiation. Publ: Co-auth, Racial differentiation in American metropolitan areas, Soc. Forces, 6/67; Social attachment and drinking in skid-row life histories, spring 67 & auth, Violations of academic freedom: official statistics and personal reports, winter, 67, Soc. Probs. Address: Dept. of Sociology, Washington State University, Pullman, Wash. 99163.

BAHRAMPOUR, DR. FIROUZ, b. Mahallat, Iran, Sept. 28, 33. POLITICAL SCIENCE. B.A, American Univ, 60, M.A, 61, Ph.D.(int. rels. & orgn), 64. Instr, U.S. Dept. State, 60-64; ASSOC. PROF. POLIT. SCI, TEX. WESLEYAN COL, 64- Aiken Fund award, 61-62; asst, American Univ, 62-63; summer res. asst, Center Studies Approaches to Peace, 62. Polit. Sci. Asn; Mid. East. Inst. Middle East; American foreign policy. Publ: Turkey: political and social transformation, Theodore Gaus, 67; The Cyprus controversy, Pakistan Press Syndicate, Dacca, 66; Book review: Revolution in Pakistan, J. Polit, 2/68. Address: Dept. of Political Science, Texas Wesleyan College, Ft. Worth, Tex. 76105.

BAHRICK, PROF. HARRY P(HILLIP), b. Vienna, Austria, Dec. 22, 24; nat; m. 48; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, West Virginia, 46, M.A, 48; Ph.D, Ohio State, 50. Instr. PSYCHOL, OHIO WESLEYAN, 49-50, asst. prof, 41-43, assoc. prof, 53-56, PROF, 56-, CHMN. DEPT, 66- Res. assoc, Ohio State, 51-; vis. lectr, Kenyon Col, 52-55; Nat. Sci. Found. grant, 56-58 & fel, inst. human learning, California, Berkeley, 67-68; prin. investr, Nat. Insts. Health res. grant, 60-; vis. prof, Marburg, 63. U.S.A, 44-46. AAAS; Psychol. Asn. Motivation and learning; perceptual motor skills; experimental design; methodology of measuring retention. Address: 5 Westgate Dr, Delaware, Ohio 43015.

BAIER, DR. D(ONALD) E(VERETT), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

BAILER, DR. LLOYD H, b. Chicago, Ill, Aug. 2, 14; m. 41; c. 6. ECONOMICS. A.B, Wayne, 34, A.M, 36; Columbia, 37; Ph.D.(econ. & indust. rels), Michigan, 43. Lectr. econ, Rutgers, 49; Columbia, 50-53; asst. exec. dir, State Bd. of Mediation, N.Y, 54; LABOR ARBITRATOR, 54- Seminar assoc, Columbia, 52-; lectr, N.Y. Univ, 52. Pub. mem. rev. & appeals cmt, Wage Stabilization Bd, 51-52; mem, Emergency Bd. 171, Estab. by President Johnson, Pursuant to Rwy. Labor Act, 67. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Industrial relations; labor arbitration. Publ: Arbitration procedure and practice: arbitrator's viewpoint, Proc. N.Y. Univ. Fifteenth Annual Conf. Labor, 62; The right to assign employees in one job classification to jobs in another classification, Indust. & Labor Rels. Rev, 1/63; The discipline issue in arbitration, Labor Law J, 9/64. Address: 645 Walther Way, Los Angeles, Calif. 90049.

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BAILEY, DR. DANIEL E(DGAR), b. Ray, Ariz, June 18, 30; m. 56. PSYCHOLOGY, STATISTICS. B.A, Arizona, 53; Ph.D, California, 60. Asst. psychol, California, 53-54, 56-60, Nat. Inst. Ment. Health res. fel. statist, California, 60-62; asst. prof. PSYCHOL, COLORADO, 62-66, ASSOC. PROF, 66-, ASSOC. PROF. COMPUT. SCI, 66-, CHMN. DEPT, 65- Consult, U.S. Army Med. Res. & Nutrit. Lab, Fitzsimmons Army Hosp, Denver, Colo, 65-; Middle-Atlantic Ed. & Res. Center, Franklin & Marshall Col, 66- U.S.A, 54-56. AAAS; Psychomet. Soc; Inst. Math. Statist; Asn. Comput. Mach; Soc. Multivariate Exp. Psychol. Mathematical applications in psychology; multivariate statistical analysis; experimental and theoretical analysis of cognition and learning; development of generalized computer program systems for statistical analysis. Publ: Co-auth, Clinical inference and cognitive theory; Digital computing, Wiley, 68. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

BAILEY, DEAN DONALD WARD, b. Rockwell City, Iowa, Mar. 2, 06; m. 41; c. 3. PSYCHOLOGY. B.S, Southern California, 27, M.A, 28; Vienna, 30; Ph.D.(guid), Yale, 37. Adminstr, Kamehameha Schs, Hawaii, 34-35; instr. psychol, Yale, 35-36; Mt. Holyoke Col, 36-38; prof, Mary Baldwin Col, 38-41; asst. prof. psychol. & registr, Univ. Kansas City, 41-43; case supvr, Pac. Area Off, Am. Red Cross, 43-45; dir. voc. counseling, California, Los Angeles, 45-48; dir. personnel & guid. & prof. psychol, SACRAMENTO STATE COL, 48-49, DEAN STUDENTS, 49- Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn. Personnel adjustive factors; predictive techniques for evaluating and improving adjustment. Address: Sacramento State College, Sacramento, Calif. 95819.

BAILEY, DR. ELDON W, b. Huntington, Ind. Feb. 27, 12; m. 36; c. 4. SOCIOLOGY. B.S, North Texas State, 35; B.D. & M.R.E, Southwest. Baptist Theol. Sem, 50, Th.D, 55; M.A, Texas Christian, 51. Asst. prof. sociol, La. Baptist Col, 53-54; controller, Hardin Simmons, 54-67; ASST. PROF. SOCIOL, BISHOP COL, 67- Sociol. Asn; Soc. Study Social Probs. Cultural anthropology; social psychology; applied sociology. Address: Dept. of Sociology, Bishop College, 3837 Simpson Stuart Rd, Dallas, Tex. 75241.

BAILEY, DR. HARRY A(UGUSTINE), JR, b. Ft. Pierce, Fla, Dec. 19, 32; m. 52; c. 2. POLITICAL SCIENCE. B.A, Fla. Agr. & Mech, 54; M.A, Kansas, 60, Ph.D.(polit. sci), 64. Asst. instr. West. civilization, Kansas, 60-61 & 63-64, polit. sci, 61-63, instr. sociol, summer 64; asst. prof. POLIT. SCI, TEMPLE, 64-68, ASSOC. PROF, 68- Consult, Phila. Antipoverty Action Cmt, 65-66. U.S.A, 54-57, Res, 57-65, Capt. Polit. Sci. Asn; Soc. Pub. Admin. American government and politics; public administration; regulatory process of public utilities in Kansas; role of the Negro in American politics and the central features of Negro political behavior. Publ: Negro politics in America, C.E. Merrill, 67; The rate-making function in Kansas public utility regulation, Monogr, Univ. Kansas, 4/67; Independence, regulation, and the Kansas Corporation Commission, Pub. Utilities Fortnightly, 5/66. Address: Dept. of Political Science, Temple University, Philadelphia, Pa. 19122.

BAILEY, DR. HELEN MILLER, Soc. Sci, Hist, see 10th ed, Soc. & Behav. Vols.

BAILEY, PROF. HUGH C(OLEMAN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAILEY, PROF. JACKSON HOLBROOK, Mod. Japanese Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAILEY, DR. JOE ALLEN, Commun, Adult Ed, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BAILEY, DR. JOHN A(RTHUR), b. College Station, Tex, July 6, 18; m. 46; c. 2. POLITICAL SCIENCE, TRANSPORTATION. B.S, Texas A&M, 39; M.G.A, Pennsylvania, 49, Ph.D.(polit. sci), 66. Plant mgr, Pepsi Cola Co. N.J, 46-48; chief adminstr, Borough of Edgworth, Pa, 49-53; chief, Refuse Disposal & Plant Opers, Phila, 53-54; dep. street cmnr, Phila, 54-55, acting street cmnr, 55-56, dep. managing dir, 56-61; exec. dir, Passenger Serv. Improvement Corp. Phila, 61-64; dep. gen. mgr, Southeast. Pa. Transportation Authority, 64-67; DIR. TRANSPORTATION CENTER, NORTHWESTERN, 67- Consult. to adminstr, Housing & Home Finance Admin, 62-63; consult. to secy, Dept. Housing & Urban Develop, 65-66. Mem, urban transportation panel, nat. coop. hwy. res. prog, Nat. Sci. Coun, 64-66, transportation adv. panel. Ord. Dept, U.S.A, 42-46, Capt. Soc. Pub. Admin; Polit. Sci. Asn; Soc. Adv. Mgt; Acad. Polit. & Soc. Sci; Int. City Mgr. Asn. Publ: Co-auth, Philadelphia experiment with garbage cooking, Pub. Health Reports, 10/54; auth, The progress of transportation in the Philadelphia region, Traffic Quart, 4/58; Public's role in urban transit grows, Mod. Railroads, 4/67. Address: Northwestern University Transportation Center, 1818 Hinman Ave, Evanston, Ill. 60204.

BAILEY, PROF. JOSEPH C(ANNON), b. Danville, Ill, Dec. 5, 99; m. 49, 58; c. 1. HUMAN RELATIONS. A.B, Illinois, 24; A.M, Columbia, 34, Ph.D.(hist. pub. law), 44; hon. A.M, Harvard, 54. Instr. hist, Columbia, 35-36; consult. & spec. asst, U.S. Resettlement Admin, 36-38; asst. prof. soc. sci, Hunter Col, 38-47; from lectr. to PROF. HUMAN RELS, HARVARD, 47-; NORTHEASTERN, 66- Consult. Sociol. Asn; Soc. Appl. Anthrop; Hist. Asn; Agr. Hist. Asn; Acad. Polit. & Soc. Sci. Administration and management; adult education; agricultural history. Publ: Co-auth, Administering research & development, 64 & Organizational behavior & administration, 65, Irwin-Dorsey; The toughest part of the job of the President (final decision maker) in every organization, preliminary report in Harvard Bus. Res, 5-6/67. Address: Morgan Hall, Harvard Business School, Boston, Mass. 02163.

BAILEY, PROF. JOSEPH K(ENNETH), b. Troy, W.Va, Sept. 7, 13; m. 41. BUSINESS ADMINISTRATION & MANAGEMENT. B.A. & B.S, Salem Col, 34; M.B.A, Texas, 48, Ph.D.(bus. admin), 55. Inst. mgt, Texas, 48-49, asst. prof, 49-55, assoc. prof, 55-64, asst. dean col. bus. admin, 52-56, chmn. dept. MGT, 57-61; PROF, HAWAII, 64-, chmn. dept, mgt, mkt. & indust. rels, 65-67. U.S.A.A.F, 42-46. Econ. Asn; Acad. Mgt. Business organization; personnel. Publ: Organization planning: whose responsibility?, Acad. Mgt. J; The group executive position: a growing trend, Bus. Topics; How pure should the staff role be?, Personnel Admin. Address: College of Business Administration, University of Hawaii, Honolulu, Hawaii 96822.

BAILEY, LEO C(ARL), Indust. Econ, See 10th ed, Soc. & Behav. Vols.

BAILEY, DR. MARTIN J(EAN), b. Taft, Calif, Oct. 17, 27; m. 54. ECONOMICS. B.A, California, Los Angeles, 51; M.A, Hopkins, 53, Soc. Sci. Res. Coun. fel, 53-54, Ph.D.(econ), 56. Asst. prof. econ, Chicago, 55-59, assoc. prof, 59-64, prof, 64-65; staff economist, Inst. Defense Anal, 65-66; consult. to Asst. Secy. Defense for Systs. & Anal, 66, asst. for Southeast Asia forces to Secy, 66-68; ASSOC. DEAN COL. BUS. ADMIN, ROCHESTER, 68- Consult, Inst. Defense Anal, 63, acting assoc. dir. econ. & polit. studies div, 63-64, staff economist, 64-65. U.S.A, 46-47. Econ. Asn; Economet. Soc. Public finance; welfare economics; national security. Publ: National income and the price level, McGraw, 62; co-auth. & co-ed, The taxation of income from capital, Brookings, 68; auth, Formal criteria for investment decisions, J. Polit. Econ, 59. Address: College of Business Administration, University of Rochester, Rochester, N.Y. 14627.

BAILEY, DR. MATTOX A(UGUSTUS), Psychol, see 10th ed, Soc. & Behav. Vols.

BAILEY, DR. NORMAN A(LISHAN), b. Chicago, Ill, May 22, 31; m. 66. POLITICAL SCIENCE, ECONOMICS. A.B, Oberlin Col, 53; M.I.A, Columbia, 55, Ph.D, 62. Int. economist, Socony-Mobil Oil Co, 59-60; pres, Overseas Equity Inc, 61-62; asst. prof. POLIT. SCI. QUEENS COL.(N.Y), 62-65, ASSOC. PROF, 65- Summer res. grants, Soc. Sci. Res. Coun, 63, Relm Found 64 & Gulbenkian Found, 65. U.S.A, 56-58. Polit. Sci. Asn. Latin American politics and economics; pure theory of politics. Publ: Ed, Latin America: politics, economics and hemispheric security, Praeger, 65; auth, Latin America in world politics, Walker, 67; American economy: power and paradox, Yale Rev, 7/66. Address: Dept. of Political Science, Queens College, Flushing, N.Y. 11367.

BAILEY, PROF. R(AYMOND) A(LLMAN), b. Akron, Ohio, Aug. 13, 21; m. 42; c. 1. AGRICULTURAL ECONOMICS, FINANCE. B.Sc, Ohio State, 46, M.S, 48, Ph.D, 57. Instr. AGR. ECON, OHIO STATE, 50-57, asst. prof, 57-61, assoc. prof, 61-65, PROF, 65- Assoc. dir, agr. finance center, Ohio State, 64-66, dir, 67- Agr. credit consult, U.S. Agency Int. Develop, 62- U.S.A.A.F, 43-45, Sgt. Farm Econ. Asn. Agricultural credit and finance; direction of global research in agricultural credit as development tool. Publ: Co-auth, Agricultural credit in Taiwan, 66 & Structure and productivity of capital in agriculture of Taiwan, 67, Agr. Finance Center, Ohio State Univ. Address: Dept. of Agricultural Economics, Ohio State University, 2120 Fyffe Rd, Columbus, Ohio 43210.

BAILEY, PROF. ROBERT BENJAMIN, III, b. Knoxville, Tenn, Nov. 9, 29. SOCIOLOGY. B.A, Talladega Col, 51; Fulbright scholar, Birmingham, 51-52, M.A, 52; Munich, 51-52; Frankfort, 52-55; Inst. Soc. Studies, Hague, Holland, 55; Ph.D. et Litt, Utrecht, 58. Instr. SOCIOL, WIS. STATE, RIVER FALLS, 57-58, asst. prof, 58-60, assoc. prof, 60-63, PROF, 63-, CHMN. DEPT, 66-, DIR. STUDY ABROAD PROG, 63- Summer prof, Fla. Agr. & Mech. Univ,

59. Mem. acad. progs. abroad cmt, Coun. Int. Ed. Exchange, 65-, develop. cmt, 66- Sociol. Asn. Sociology of knowledge; criminology; comparison of socialist and capitalist societies. Publ: Sociology faces pessimism. Address: Dept. of Sociology, Wisconsin State University, River Falls, Wis. 54022.

BAILEY, DR. RONALD B, b. Ft. Pierce, Fla, Feb. 5, 36. POLITICAL SCIENCE. B.S, Florida Agr. & Mech,,58; Woodrow Wilson fel, Illinois, 58-59, M.A, 59, John Hay Whitney fel, 59-60, Ph.D.(polit. sci), 65. Instr. POLIT. SCI, Florida Agr. & Mech, 60-61; teaching fel, Illinois, 61-64; CHMN. DEPT, ATLANTA, 66- Lectr, Amerika-Haus, Heidelberg, Germany, 65-66. U.S.A, 64-66, Capt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Alaska's politics; Southern Republican party politics. Address: Dept. of Political Science, Atlanta University, Atlanta, Ga. 30314.

BAILEY, DEAN STEPHEN K(EMP), b. Newton, Mass, May 14, 16. GOVERNMENT. A.B, Hiram Col, 37; Rhodes scholar, Oxford, 37-39, B.A, 39, M.A, 46; A.M, Harvard, 43, Soc. Sci. Res. Coun. fel, 46-47, Ph.D, 48; hon. LL.D, Reed Col, 63. Assoc. prof. govt, Wesleyan, 46-54; prof. pub. affairs, Princeton, 54-59; PROF. POLIT. SCI. & DEAN MAXWELL SCH. CITIZENSHIP & PUB. AFFAIRS, SYRACUSE, 59- Regent, State Univ. N.Y, 67- Asst. chief, Am. Hemisphere Div, Bd. Econ. Warfare, 42; staff assoc, Hoover Cmn, 48-49; staff dir. proj. unit, Cmn. State Govt. Orgn, Conn, 49-50; mem, Presidential Task Force on Govt. Reorgn, 64; chmn. task force on intergovt. prog. coord, U.S. Bur. Budget, 65; mem, Nat. Adv. Cmt. Ed. Labs, Dept. Health, Ed. & Welfare, 67- U.S.N.R, 43-45, Lt. Polit. Sci. Asn.(v.pres, 67-68); Soc. Pub. Admin.(pres, 67-68); Nat. Acad. Ed.(secy-treas, 65-71). American politics; administration and legislation. Publ: auth, Congress at work; auth, The new Congress, 66; co-auth, ESEA: the office of education administers a law, Syracuse Univ, 68. Address: Maxwell Hall, Syracuse University, Syracuse, N.Y. 13210.

BAILEY, WARREN R(ICHARDS), b. Sloan, Iowa, Mar. 10, 10; m. 38; c. 4. AGRICULTURAL ECONOMICS. B.S, S.Dak. State Col, 35, M.S, 36; fel, Wisconsin, 37-38. Agr. economist, bur. agr. econ, U.S. DEPT. AGR, Wis, 38-42, Ill, 46-48, Calif, 47-52, head west. sect, farm mgt. div, 52-54, asst. head, prod. econ. res. br, agr. res. serv, 54-60, economist, 54-60, ECON. RES. SERV, 61-66, DEP. DIR, FARM PROD. ECON. DIV, 66- U.S.A, 42-46, Lt. Col. Agr. Econ. Asn. Production economics. Publ: Organizing and operating dryland farms in the great plains, Econ. Res. Serv, 1/66; Necessary conditions for growth of the farm business firm, Agr. Econ. Res, 1/67. Address: 2000 Lorraine Ave, McLean, Va. 22101.

BAILEY, PROF. WILFRID C(HARLES), b. Cicero, Ill, May 3, 18; m. 41; c. 4. ANTHROPOLOGY, RURAL SOCIOLOGY. B.S, Arizona, 40, M.A, 42; Ph.D. (anthrop), Chicago, 55. Asst, Ariz. State Mus. & Univ. Arizona, 37-41; ANTHROP, Chicago, 42, 46-47, cmt. human develop, 42-43, 46; instr, Texas, 47-51, asst. prof, 51-55; Miss. State, 55-56, assoc. prof, 56-60, PROF, 60-62; GEORGIA, 62- U.S.A, 43-45. Fel. Anthrop. Asn; fel. Sociol. Asn; Soc. Appl. Anthrop; Soc. Archaeol; Rural Sociol. Soc. Social and educational anthropology; regional and rural development. Address: Dept. of Sociology & Anthropology, University of Georgia, Athens, Ga. 30601.

BAILOR, PROF. EDWIN M(AURICE), b. Culbertson, Nebr, May 13, 90; m. 20. PSYCHOLOGY. A.B, State Col. Wash, 14, A.M, 16; Ph.D.(ed. psychol), Columbia, 24; hon. A.M, Dartmouth Col, 28. Teacher & pub. sch. supvr, Wash, 09-13, 14-15; instr. ed, State Col. Wash, 15-18; psychol. expert, U.S. Army, 19-21; training officer, U.S. Vet. Bur, 21-23; asst. ed.psychol, teachers col, Columbia, 23-24, instr, 24-25; asst. prof. PSYCHOL, DARTMOUTH COL, 25-28, prof, 28-58, EMER. PROF, 58- Sanit.C, 18-19, 2nd Lt. AAAS; fel. Psychol. Asn. Psychometrics; content and form in tests of intelligence. Publ: Co-auth, Developed lessons in psychology. Address: 309 N. Atlantic Ave, Apt. 2, Daytona Beach, Fla. 32018.

BAILY, DEAN NATHAN A, b. New York, N.Y, July 19, 20; m. 46; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.S, City Col. New York, 40, fel, 40-42, Greenfield fel, 42; M.A, Columbia, 41, Ph.D.(econ, hist), 46. Mem. staff, City Col. New York, 42-46; ed-analyst, Res. Inst. Am, 44-45; price economist, Off. Price Admin, 46-47; from asst. prof. to PROF. BUS. ADMIN. & FINANCE, AMERICAN UNIV, 47-, DEAN SCH. BUS. ADMIN, 55- Prof. lectr, Howard, 48-49; indust. fel, E.I. du Pont de Nemours & Co, 49; Swift & Co, 50; lectr, Gen. Elec. Co; Int. Bus. Mach. Corp; Army Mgt. Sch. Consult, Army Specialized Training Prog, U.S. Armed Forces Inst. Mem. bd. dirs, Wash. Mutual Investors Fund; Int. Small Indust. Develop. Corp; Carl M. Freeman & Assocs; Am. Wholesalers; Pioneer Found; Friends of U.S. of Latin Am; D.C. adv. coun, State Tech. Serv. Act Prog; Homer Hoyt Inst; bd. adv, Dist-Realty Title Ins. Co; Columbia Realty Trust; Fed. Realty Invest. Trust; Ed. Develop. & Res. Inst; Coun. Opportunities Selling; Nat. Adv. Coun. Econ. Ed, Invest-in-Am; secy-treas, Middle Atlantic Asn. Cols. Bus. Admin, 63-64, pres, 64-65; mem, D.C. Small Bus. Adv. Coun; nat. ed. adv. cmt, Am. Inst. Banking; antitrust & trade regulation cmt, U.S. Chamber Commerce, 67- Econ. Asn. Investments; business finance and management; human relations. Publ: Relationship of graduate to under-graduate education in bus. admin, St. Johns Univ, 64; A charter for business-government relations, Ed. Affairs, fall 65, Delta Sig, 1/66, Bus. Perspectives, spring 67; Is big business bad for the consumer? Bus. Perspectives, fall 67, Am. Int. Col. J, winter 67. Address: School of Business Administration, American University, Washington, D.C. 20016.

BAILY, DR. SAMUEL L, Latin Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAILYN, PROF. BERNARD, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAILYN, DR. LOTTE, b. Vienna, Austria, July 17, 30; nat; m. 52; c. 2. SOCIAL PSYCHOLOGY. B.A, Swarthmore Col, 51; M.A, Radcliffe Col, 53, Ph.D, 56. Res. assoc, grad. sch. ed, Harvard, 56-57; instr. econ. & soc. sci, Mass. Inst. Tech, 57-58; res. assoc, lab. soc. rel, Harvard, 58-62, lectr. soc. psychol, 62-67. Psychol. Asn. Mass communications; attitude change; research methods. Publ: Mass media and children: exposure habits and cognitive effects, Psychol. Monogr, 59; co-auth, Effects of cross-cultural experience on national images, J. Conflict Resolution, 12/62; auth, Notes on the role of choice in the psychology of professional women, Daedalus, spring 64. Address: 3 Hurlbut St, Cambridge, Mass. 02138.

BAIN, DR. CHESTER A(RTHUR), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAIN, PROF. CHESTER W(ARD), b. Bradshaw, Va, Aug. 11, 19; m. 44; c. 3. POLITICAL SCIENCE. B.A, Virginia, 48, fel, 49, M.A, 50, Ph.D.(polit. sci), 55. Asst. bur. pub. admin. Virginia, 51-56, asst. dir, 56-60, asst. prof. POLIT. SCI, univ, 54-57, assoc. prof, 57-60; prof. & head dept, South Carolina, 60-63; prof, Emory, 63-66, chmn. dept, 64-66; OLIN D. JOHNSTON PROF, SOUTH CAROLINA, 66- Vis. prof, West Virginia, 57-58. U.S.A, 41-45. Polit. Sci. Asn. American national, state and local government; public administration. Publ: Annexation in Virginia, 66 & A body incorporate: the evolution of city-county separation in Virginia, 67, U. of Virginia. Address: Dept. of Political Science, University of South Carolina, Columbia, S.C. 29208.

BAIN, GEORGE F, Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols.

BAIN, G(EORGE) KEITH, b. Brampton, Ont, Apr. 5, 28; m. 53. GEOGRAPHY. B.A, McMaster, 53; fel, Syracuse, 53-54, M.A, 58. HEAD, OFF. PLANS SECT, COMMUNITY PLANNING, ONT. DEPT. MUNIC. AFFAIRS, 54- Asn. Am. Geog; Can. Asn. Geog. Agricultural geography; community and regional planning. Address: Community Planning Branch, Ontario Dept. of Municipal Affairs, 801 Bay St, Toronto, Ont, Can.

BAIN, PROF. JOE S(TATEN), b. Spokane, Wash, July 4, 12; m. 37; c. 2. ECONOMICS. A.B, California, Los Angeles, 35; Stanford, 35-36; A.M, Harvard, 39, Ph.D, 40. Asst. prof. ECON, CALIFORNIA, BERKELEY, 39-44, assoc. prof, 44-49, PROF, 49- Econ. Asn. Industrial organization; economic theory. Publ: Price theory; Barriers to new competition; Industrial organization. Address: Dept. of Economics, University of California, Berkeley, Calif. 94720.

BAIN, PROF. READ, b. Woods, Ore, Oct. 20, 92; m. 25; c. 1. SOCIOLOGY. A.B, Willamette, 16, LL.D, 41; M.A, Oregon, 21; Ph.D, Michigan, 26. Asst. prof, Oregon, 21-24; Washington (Seattle), 24-27; assoc. prof. SOCIOL, MIAMI (OHIO), 27-29, prof, 29-60, EMER. PROF, 60- Vis. prof, Minnesota, 34; Harvard, 37-38; Reed Col, 47-49; Oregon, 62; Mt. Angel Col, 65; Ore. State Syst. Higher Ed, 65-69. Consult, div. statist. standards, U.S. Bur. Budget, 42. Ed, Am. Sociol. Rev, 38-42. Sociol. Asn.(1st v.pres, 44); Sociol. Res. Asn.(pres, 45). Social theory; philosophy and methods of science; criminology; family. Publ: Ed. & contrib, Trends in American sociology, Harpers, 29; ed, Critiques of research in the social sciences (3 vols), 40-41; Sociology: introductory readings, Lippincott, 62. Address: 8300 S.W. Power Court, Portland, Ore. 97225.

BAIN, PROF. ROBERT K(ETCHAM), b. Washington, D.C, Jan. 21, 22; m. 59; c. 1. SOCIOLOGY. A.B, Chicago, 47, Ph.D, 59; M.A, North Carolina, 49. Asst, indust. rel. center, Chicago, 52-53; psychol. warfare, HumRRO, George Washington, 54-56; surv. statistician ed, off. ed, U.S. Dept. Health, Ed. & Welfare, 56-59; asst. prof. SOCIOL, PURDUE, 59-66, ASSOC. PROF, 66- Fulbright res. scholar, Tech. Univ. Norway, 67-68. Consult, med. center, Indiana, 61- U.S.A.A F, 42-46, Sgt. Sociol. Asn. Industrial sociology; complex organizations; social stratification. Address: Dept. of Sociology, Purdue University, Lafayette, Ind. 47907.

BAINBRIDGE, DR. F(RANK) W(ILLOUGHBY), Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

BAIR, DR. JOHN T(HEODORE), b. Dover, Ohio, Mar. 20, 19; m. 41; c. 2. PSYCHOLOGY. B.S, Ohio State, 41, Ph.D.(psychol), 49; fel, Tennessee, 41-42, M.A, 42. Asst. personnel dir, Homelite Corp, 43-45; tech. dir, Personnel Lab, 45-47; asst. prof. psychol, Allegheny Col, 47-48, dir. guid. center, 48-51; supvy. res. psychologist, U.S. Naval Sch. Aviation Med, 51-60; CHIEF COUNSELING & CLIN. SERV, PSYCHOL. SERV. PITTSBURGH, 60- Consult. personnel psychologist, Talon, Inc, 47-51. Dipl, Am. Bd. Exam. Prfnl. Psychol, 55. Psychol. Asn; Coun. Measurements in Ed. Counseling and psychotherapy; psychological test construction and validation; attitude evaluation. Publ: Factor analysis of clerical aptitude tests & Attitudes toward authority figures as correlates of motivation among naval aviation cadets, J. Appl. Psychol; Studies in motivation of student aviators at the Naval School of Aviation Medicine, J. Aviation Med. Address: Psychological Service of Pittsburgh, 233 Oliver Ave, Pittsburgh, Pa. 15222.

BAIR, W(ILLIAM) I, b. Bourbon, Ind, Nov. 5, 12; m. 42; c. 4. STATISTICS. B.S, Purdue, 34. Agr. statistician, crop reporting serv, U.S. DEPT. AGR, 35-52, AGR. STATISTICIAN IN CHARGE FED. & STATE CROP REPORTING SERV, 52- Statist. Asn; Farm Econ. Asn. Estimating volume of all major crop and livestock items produced in New York State. Address: Room 800, Bldg. 8, State Campus, Albany, N.Y. 12226.

BAIRD, DEAN CHARLES O('CONNOR), Forest Econ, see Suppl. II to 11th ed, Phys. & Biol. Vols.

BAIRD, PROF. CLYDE RAY, b. Attica, Kans, Jan. 31, 21; m. 44; c. 1. COUNSELING PSYCHOLOGY. B.A, Southwest. Col, 42; M.A, Columbia, 47; Ed.D, Oklahoma, 56. Asst. prof. ed. & psychol. & counsr. guid. bur, KANS. STATE COL. PITTSBURG, 47-53, assoc. prof. ed. & psychol, 57, prof, 58-66, PROF. PSYCHOL. & COUNSR. ED, 66-, EXEC. V.PRES, COL, 68-, dir. admissions, 53-66, registr, 53-68. U.S.A.A.F, 42-45, Sgt. Psychol. Asn. Vocational and educational guidance; tools and techniques related to counseling psychology; development of secondary school guidance programs. Publ: Three types of counseling & Autobiography, Ed. Leader. Address: Dept. of Psychology, Kansas State College of Pittsburg, Pittsburg, Kans. 66762.

BAIRD, DR. FRANK L(ORENZO), b. Elgin, Ill, Apr. 17, 22. POLITICAL SCIENCE. B.A, New Mexico, 48, M.A, 51; fel, Texas, 63-64, Ph.D.(govt), 64.

Instr. govt, Col. of Ozarks, 52-53; Lee Col, 53-56; investment counsr, 56-60; asst. prof. GOVT, Texas, Arlington, 64-68; ASSOC. PROF, TEX. TECH. COL, 68- Res. grants, Texas, Arlington, 65-68. U.S.A, 42-46, Sgt. Polit. Sci. Asn. Development, functioning, and recruitment of power elites in urban areas; rise of two-party system in west Texas and resulting party changes in behavior; conservatism of great plains; Federal Communication Commission-congressional relationships. Publ: Program regulation of the new frontier, J. Broadcasting, summer 67. Address: Dept. of Government, Texas Technological College, Lubbock, Tex. 79409.

BAIRD, PRES. JAMES O(SCAR), b. Lebanon, Tenn, Jan. 16, 20. SOCIOLOGY. A.B, Peabody Col, 42, A.M, 43, Ph.D, 48; Princeton Theol. Sem, 43-44. Prof. sociol. & Bible, David Lipscomb Col, 45-50; dean, OKLA. CHRISTIAN COL, 50-54, PRES, 54- Life and works of Charles Edgar Little. Address: Oklahoma Christian College, Oklahoma City, Okla. 73111.

BAIRD, DR. JOHN C, b. Pawtucket, R.I, June 24, 38; m. 59; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Dartmouth Col, 60; M.A, Delaware, 62; Nat. Inst. Ment. Health fel. & Ph.D.(psychol), Princeton, 64. Nat. Inst. Ment. Health fel. exp. psychol, Stockholm, 66-67; ASST. PROF. PSYCHOL, DARTMOUTH COL, 67- Med.Serv.C, U.S.A, 64-66, Capt. Visual perception; psychophysics; general theory. Publ: Stimulus and response factors in size instruction effects, Perceptual & Motor Skills, 21: 915-924; Area and distance estimation of single and multiple stimuli, Vision Res, 5: 661-678; Retinal and assumed size cues as determinants of size and distance perception, J. Exp. Psychol, 66: 155-162. Address: Dept. of Psychology, Dartmouth College, Hanover, N.H. 03755.

BAIRD, PATRICK D(OUGLAS), Geog, Glaciol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

BAIRD, DR. R(ICHARD) E(DWARD), b. Davenport, Iowa, Mar. 2, 29; Can. citizen; m. 54. POLITICAL SCIENCE. B.A, Augustana Col.(Ill), 51; M.A, Illinois, 54, Ph.D.(polit. sci), 60. ASSOC. PROF. POLIT. SCI, ALBERTA, 60- Political parties; interest groups; politics of education. Address: Dept. of Political Science, University of Alberta, Edmonton, Alta, Can.

BAIRDAIN, DR. E(RNEST) FREDERICK, Indust. Psychol, Eng, see 10th ed, Soc. & Behav. Vols.

BAKAN, PROF. DAVID, b. New York, N.Y, Apr. 23, 21; m. 42; c. 6. PSYCHOLOGY. A.B, Brooklyn Col, 42; M.A, Indiana, 44; Ph.D.(psychol), Ohio State, 48. From asst. prof. to PROF. PSYCHOL, Missouri, 49-61; CHICAGO, 61- Psychol. Asn. Research methods; psychology of religion; history of psychology. Publ: Sigmund Freud and the Jewish mystical tradition, Van Nostrand, 58; The duality of human existence, Rand McNally, 66; On method, Jossey-Bass, 67. Address: Dept. of Psychology, University of Chicago, Chicago, Ill. 60637.

BAKAN, PROF. PAUL, b. Brooklyn, N.Y, Nov. 1, 28; m. 50. PSYCHOLOGY. B.A, N.Y. Univ, 49, M.A, 50, Ph.D.(psychol), 54. Asst, N.Y. Univ, 49-51; Illinois, 51-52, res. assoc, 52-53; instr. PSYCHOL, MICH. STATE, 53-55, asst. prof, 55-59, assoc. prof, 59-63, PROF, 63- Nat. Sci. Found. fel, 56-57; vis. scientist, appl. psychol. res. unit, Cambridge, 61-62. AAAS; Psychol. Asn; Psychonomic Soc; Brit. Exp. Psychol. Soc. Experimental psychology; perception; attention. Publ: Attention; an enduring problem in psychology, Van Nostrand, 66; Current theoretical approaches to perception; Discrimination decrement as a function of time in a prolonged vigil. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

BAKER, PROF. BENJAMIN, b. New York, N.Y, May 29, 14. POLITICAL SCIENCE. B.S.S, City Col. New York, 35; A.M, Columbia, 40, Ph.D, 49. Act. div. chief, U.S. Dept. Agr, 41-47; asst. prof. POLIT. SCI, Hofstra Col, 47-51; RUTGERS, 52-57, assoc. prof, 58-60, PROF, 60- Vis. prof, Puerto Rico, 47-48. Consult. Polit. Sci. Asn; Soc. Pub. Admin. Public administration as related to the role of agriculture; role of agriculture in our economy; wartime food procurement and production: governmental problems of the American city. Publ: Wartime food production and distribution; Municipal charter revisions in New Jersey; co-auth, Government in the U.S, Houghton, 66. Address: 622 Huntington Ave, Plainfield, N.J. 07060.

BAKER, CHARLES A(DOLPHUS), b. Elyria, Ohio, Apr. 10, 25; m. 48; c. 2. PSYCHOLOGY. B.A, Ohio Wesleyan, 49; M.A, New Mexico, 51; Hopkins, 51-52. Asst. prof. psychol, Colo. Agr. & Mech. Col, 50-51; res. psychologist, aerospace med. lab, Wright Patterson Air Force Base, Ohio, 52-57, supv. res. psychologist, 57-62; mgr. systs. tech, systs. & res. div, Honeywell Inc, Minn, 62-68; DIV. CHIEF DISPLAY & COMMUN, NAT. HWY. SAFETY BUR, WASH, D.C, 68- Mem. cmt. vision, Armed Forces-Nat. Res. Coun, 57-59; res. consult, Univ. Minnesota, 64- U.S.N, 43-46. AAAS; Psychol. Asn; Psychonomic Soc; Human Factors Soc.(secy-treas, 65); Inst. Aeronaut. & Astronaut. Psychophysical research in vision; form recognition; visual skills in weapon systems; man-machine system simulation. Publ: Visual capabilities in the space environment, Pergamon, 65; Interpolation accuracy as a function of visual angle between scale marks, J. Exp. Psychol; Visual presentation of information. Address: 1903 Dana Dr, Adelphi, Md. 20783.

BAKER, DR. CHARLES T(HOMAS), Psychol, see 10th ed, Soc. & Behav. Vols.

BAKER, PROF. C(HESTER) B(IRD), b. Mt. Union, Iowa, Aug. 25, 18; m. 42; c. 3. AGRICULTURAL ECONOMICS. B.S, Iowa State Col, 47, fel, 48; Ph.D, California, 53. Asst. prof, Mont. State Col, 50-54, assoc. prof, 54-55, prof, 56, agr. economist, agr. exp. sta, 50-56; assoc. prof. FARM MGT, ILLINOIS, URBANA, 57-58, PROF, 58- Fel, Soc. Sci. Res. Coun, 58; J.S. McLean vis. prof, Ont. Agr. Col, 60; Fulbright-Hays sr. res. scholar, Sydney, 66-67. U.S.A, 41-46. Econ. Asn; Farm Econ. Asn; Int. Asn. Agr. Econ. Publ: Credit as a restraint in production organization, Iowa State Univ, 65; Firm growth, liquidity management and production choices, Univ. Illinois, 66; Research orientations in agricultural economics, Australian J. Agr. Econ, 67. Address: Dept. of Agricultural Economics, University of Illinois, Urbana, Ill. 61801.

BAKER, DR. C(HESTER) H(AMILTON), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

BAKER, PROF. DONALD G, b. Elgin, Ill, Feb. 16, 32. SOCIAL & POLITICAL SCIENCE. B.A, Denver, 53; M.A, Syracuse, 58, Ph.D.(polit. sci), 61. Asst. prof. Am. studies & govt. & dir. dept, Skidmore Col, 59-64; PROF. POLIT. SCI. & DIR. DIV. SOC. SCI, SOUTHAMPTON COL, LONG ISLAND, 64- Faculty supvr. & Ford Found. res. grant, N.Y. State Legis. Internship Prog, 60-64. Consult, Peace Corps, 64-65; civil rights act training inst, California, Berkeley, 67-68. Dir, inst. sch. integration, Southampton Col, Long Island, 66-67, Nat. Defense Ed. Act.European studies inst, 67-69. U.S.A, 54-56. Polit. Sci. Asn. Legislative politics; politics and literature; party politics; politics of social change; race relations. Publ: Co-auth, Postwar America: the search for identity, Glencoe, 68. Address: Wild Duck Lane, Hampton Bays, N.Y. 11946.

BAKER, DR. ELDON E, b. Mason City, Iowa, Oct. 5, 37; m. 57. COMMUNICATION. B.A, Colo. State Col, 59; M.A, Purdue, 61, Ph.D.(commun. theory & measurement), 66. Asst. prof. speech, Ohio State, 66-67; ASST. PROF. SPEECH COMMUN. & DIR, COMMUN. RES. CENTER, MONTANA, 67- Higher Ed. Act. res. grant, 68. Nat. Soc. Study Commun; Speech Asn. Am. Programed instruction; communication credibility; vocal characteristics and personality correlates; empathy. Publ: Perceived speaker...disorganization on speaker credibility, West. Speech, summer 65; Investigation of...programing oral assignments, Speech Monogr, 6/67; co-auth, Tele-lecture or traditional lecture?, J. Coop. Exten, spring 68. Address: Communication Research Center, University of Montana, Missoula, Mont, 59801.

BAKER, PROF. ELIZABETH F(AULKNER), b. Abilene, Kans. ECONOMICS. B.L, California, 14; A.M, Columbia, 19, Ph.D, 25. Instr. econ. & dean women, Lewiston State Norm. Sch, 15-17; dean women, Wash. State Norm. Sch, 17-18; instr. ECON, BARNARD COL, COLUMBIA, 19-25, asst. prof, 25-39, assoc. prof, 39-48, chmn. dept, 40-52, prof, 48-52, EMER. PROF, 52- Res. & writing, 52- Panel chmn. region II, Nat. War Labor Bd, 42-45. Econ. Asn; Indust. Rels. Res. Asn. Industrial relations; technology and labor; personnel management. Publ: Displacement of man by machines; Printers and technology; Technology and woman's work, Columbia Univ, 64. Address: Barnard College, Columbia University, New York, N.Y. 10027.

BAKER, PROF. EMILY HILDA, b. St. Louis, Mo, Dec. 17, 07. GEOGRAPHY. A.B, Harris Teachers Col, 30; summers, California, 31-32, 36, 39; M.Ed, St. Louis, 49, Blewett scholar, 50-51, Ph.D, 54. Teacher, pub. schs, Mo, 32-49, 51-57; St. Louis Reading Clin, 49-50; PROF. GEOG. & GEOL, HARRIS TEACHERS COL, 57- Vis. lectr, St. Louis, 48-59. Asn. Am. Geog; Coun. Geog. Ed. Historical and educational geography; analysis of geography textbooks. Address: 10119 Shapfield Lane, St. Louis, Mo. 63123.

BAKER, DR. ETHEL JO, b. Atlanta, Ga, Jan. 8, 23. PSYCHOLOGY. LL.B, Atlanta Law Sch, 48; B.B.A, Georgia, 54; M.A, Emory, 60, Ph.D.(psychol), 62. ASST. PROF. PSYCHOL, GA. INST. TECH, 62- Res. audiologist, Vet. Admin, Atlanta, 61-63; summers, intern, Vet. Admin. Hosp, Augusta, 63, 64, Atlanta, 65 & Ga. Inst. Ment. Health, 67. AAAS; Psychol. Asn. Aspects of human information processing. Publ: Co-auth, Information handling of visual and auditory form perception, J. Eng. Psychol, 1: 159-179; A changing effect of cortical ablation with age, J. Comp. Physiol. Psychol, 56: 167-168. Address: Georgia Institute of Technology, 225 North Ave, Atlanta, Ga. 30332.

BAKER, PROF. FERRIS COY, b. Cainsville, Mo, July 29, 18; m. 47; c. 3. SOCIOLOGY. A.B, Cent. Methodist Col, 43; B.D, Southern Methodist, 46, M.A, 48; Duke, 57-59. Teacher relig. & asst. dir. Wesley Found, Texas A&M, 48-49; teacher relig. & asst. dir. Denton Wesley Found, N.Tex. State Col, 49-54; teacher relig. & dir, 54-57; ASSOC. PROF. SOCIOL, HENDRIX COL, 59- Vis. prof, Ark. State Teachers Col, summer 62; Arkansas, summer 65. Sociol. consult. & researcher, Statewide Planning Ment. Health, Ment. Retardation & Voc. Rehab, 67- Sociol. Asn. Demographic and sociological analysis of populations and services related to mental health, and mental retardation in Arkansas. Publ: Mental health facts in Arkansas, 64 & co-auth, Mental retardation in Arkansas, 67, Ark. State Dept. Health. Address: Dept. of Sociology, Hendrix College, Conway, Ark. 72032.

BAKER, DR. FRANK, b. Dallas, Tex, Feb. 28, 36; m. 60; c. 2. SOCIAL PSYCHOLOGY. B.A, Vanderbilt, 58; M.A, Northwestern, 62, Ph.D.(psychol), 64. From instr. to asst. prof. soc. psychol, Lehigh, 63-65; RES. ASSOC. PSYCHOL, DEPT. PSYCHIAT, HARVARD MED. SCH, 65- Consult. psychol, Mass. Rehab. Cmn, 65-67. Psychol. Asn; Sociol. Asn; Soc. Gen. Systs. Res. Organizational behavior; personality and attitude research; medical care systems; program evaluation; planned change. Publ: Co-auth, Industrial organizations and health, Tavistock, London, 68, Development of a community mental health ideology scale, Community Ment. Health J, 67 & Varied attitudes to community mental health, Arch. Gen. Psychiat, 67. Address: Dept. of Psychiatry, Harvard Medical School, 58 Fenwood Rd, Boston, Mass. 02115.

BAKER, DR. FRANK B, b. Mankato, Minn, Nov. 16, 27; m. 51; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Minnesota, 50, M.A, 54, Ph.D.(ed. psychol), 59. Asst. prof. psychol, Minnesota, 59-60; ed, Maryland, 60-61; ASSOC. PROF ED. PSYCHOL, WISCONSIN, 61- Psychomet. Soc; Statist. Asn; Asn. Comput. Mach; Psychol. Asn; Ed. Res. Asn. Application of digital computers to behavioral science research statistical and psychometric theory. Address: 5301 Burnett Dr, Madison, Wis. 53705.

BAKER, G(EORGE) A(LLEN), SR, Math, see 11th ed, Phys. & Biol. Vols.

BAKER, DEAN GEORGE P(IERCE), b. Cambridge, Mass, Nov. 1, 03; m. 26; c. 4. TRANSPORTATION ECONOMICS. A.B, Harvard, 25, A.M, 30, Ph.D, 34; hon. D.Sc, Clarkson Tech, 55, Bowling Green State, 64; hon. D.B.A, Suffolk, 63, Allegheny Col, 65; LL.D, Pace Col, 67. Instr. econ. & tutor, div. hist, govt. & econ, HARVARD, 28-36, asst. prof. transportation, 36-39, assoc. prof, 39-46, Hill prof, 46-63, dir. doctoral prog, 55-58, DEAN GRAD. SCH. BUS. ADMIN, 62- Prof, Fletcher Sch. Law, 46-48. Dir. off. transport. & commun. policy, U.S. Dept. State, 45-46; pres, Transportation Res.

Found, 61-65. Consult. to various airlines, railroads & U.S. govt. depts. Dir. various indust. corps. & banks. Mem, Civil Aeronaut. Bd, 40-42; v.chmn, President's Air Policy Cmn, 47; mem, President's Cmn. Postal Orgn, 67. U.S. del, U.S. & U.K. Civil Aviation Conf, Bermuda, 45; UN Transport & Commun. Cmn, 46-56. U.S.A, 42-45, Col. Fel. Am. Acad. Arts & Sci; Inst. Aeronaut. & Astronaut; Newcomen Soc. Administration; transportation; business; government. Publ: Formation of the New England railroad system, 37 & 49; co-auth, Case problems in transportation management, 57. Address: Harvard University Graduate School of Business Administration, Soldiers Field P.O, Boston, Mass. 02163.

BAKER, DR. GEORGE W(ALTER), b. Seaford, Del, June 15, 15; m. 58; c. 1. SOCIOLOGY, SOCIAL ANTHROPOLOGY. A.B, Delaware, 39; M.A, North Carolina, 47, Ph.D.(sociol), 52. From asst. proj. officer to prog. officer, Human Resources Res. Inst, Maxwell Air Force Base, 51-54; sr. task scientist, Crew Res. Lab, Air Force Personnel & Training Center, Randolph Air Force Base, 54-57; team chmn, spec. opers. res. off, American Univ, 57-59; tech. dir, disaster res. group, Nat. Acad. Sci-Nat. Res. Coun, 59-63; from assoc. prog. dir. to staff assoc, grad. sci. facilities, Off. Instnl Progs, NAT. SCI. FOUND, 63-65, STAFF ASSOC, UNIV. SCI. DEVELOP. SECT, INSTNL. RELS, 65- Consult, Off. Civil & Defense Mobilization; Off. Emergency Planning; cmt. on int. disaster relief, Int. Coop. Year, 65; disaster res. consult. to Can, French & Swedish officials. U.S.A, 42-46, 1st Lt. Fel. AAAS; fel. Sociol. Asn; fel. Soc. Appl. Anthrop; Acad. Polit. & Soc. Sci; fel. Anthrop. Asn. Disaster; social organization; industrial. Publ: Co-ed, Man and society in disaster & Human problems in the utilization of fallout shelters; co-auth, Occasion instant: structure of social responses to unanticipated air raid warnings. Address: 7502 Nevis Rd, Bethesda, Md. 20034.

BAKER, DR. GLADYS LUCILLE, Agr. Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAKER, PROF. GORDON E(DWARD), b. Poughkeepsie, N.Y, Dec. 6, 23; m. 47; c. 2. POLITICAL SCIENCE. B.A, Reed Col, 48; M.A, Washington (Seattle), 49; Procter fel, Princeton, 51-52, Ph.D.(polit), 52. Asst, Brown, 49-50; from asst. prof. to assoc. prof. POLIT. SCI, CALIFORNIA, SANTA BARBARA, 52-65, PROF. & CHMN. DEPT, 65- Soc. Sci. Res. Coun. faculty res. fel, 62; Guggenheim fel, 69. U.S.A, 43-46. Polit. Sci. Asn. American government and political thought; electoral processes. Publ: Rural versus urban political power; State constitutions: reapportionment; The reapportionment revolution, Random, 66. Address: Dept. of Political Science, University of California, Santa Barbara, Calif. 93106.

BAKER, DR. HAROLD A(THERTON), b. Poughkeepsie, N.Y, Nov. 10, 96; m. 25; c. 1. MARKETING. B.S, Dartmouth Col, 23; M.B.A, Buffalo, 33; Ph.D, Chicago, 35. Assoc. prof. mkt, Miami (Ohio), 34-44; economist, Stevenson, Jordan & Harrison, Ill, 44-46; prof. mkt, sch. bus, John Carroll, 46-66, chmn. dept, 57-66; RETIRED. Lectr, eve. col, Cincinnati, 34-44; dist. price exec, Off. Price Admin, 42-44. U.S.A, 18-19, Sgt. Mkt. Asn. Marketing policies and practices; principles of retail merchandising; introduction to business. Address: 2116 Campus, Cleveland, Ohio 44121.

BAKER, DR. HAROLD B(RUSS), b. Arcanum, Ohio, Feb. 1, 09. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Heidelberg Col, 31; M.B.A, Northwestern, 32, Ph.D, 40. Prof. econ. & bus. admin, Friends, 35-40; asst. prof. econ, Butler, 40-42; asst. to prod. control supvr, RCA Victor Co, Inc, Ind, 42-45; asst. prof. bus. admin, Indiana, 45-46; admin. chmn. div. bus. admin, GEN. MOTORS INST, 46-60, DIR. ADMISSIONS, RECORDS & SCHEDULING, 60-, admin. asst. to pres, 55-60. State rep, U.S. Bur. Labor Statist, Ind, 42. Econ. Asn; Mgt. Asn; Soc. Eng. Ed. Organization; management; production control in modern management. Address: General Motors Institute, 1700 W. Third Ave, Flint, Mich. 48502.

BAKER, PROF. HAROLD L(AWRENCE), b. Ogden, Utah, Jan. 14, 18; m. 46; c. 2. FOREST & LAND ECONOMICS. B.S.F, Utah State Agr. Col, 39; M.S, California, 42, Bidwell fel, 48, Ph.D.(agr. econ), Berkeley, 65. Tech. asst. forestry res, sch. forestry, California, 40-42, 46-48; forest economist, Pac. Southwest Forest & Range Exp. Sta, U.S. Forest Serv, 49-58; LAND ECONOMIST, LAND STUDY BUR, HAWAII, 58-, DIR, 64-, PROF. FOREST ECON, UNIV, 61- Resource economist, water resources res. center, Univ. Hawaii, 64- Consult, U.S. Forest Serv, Hawaii, 61-; land use economist consult. to Philippine Govt, Food & Agr. Orgn, UN, 66. U.S.N, 42-46, Res, 46-, Lt. Soc. Am. Foresters. Forest mensuration, management, economics and policy; agricultural policy; production and land economics; land tenure; regional economic analyses; economics of resource development. Publ: Molokai: present and potential land use, Bull Univ. Hawaii; Hawaii's market potential, Hawaii Agr; California's timber industries, Report, U.S. Forest Serv. Address: Land Study Bureau, University of Hawaii, Honolulu, Hawaii 96814.

BAKER, DR. HARRY J(AY), Psychol, see 10th ed, Soc. & Behav. Vols.

BAKER, PROF. H(ARRY) LEIGH, b. Britt, Iowa, June 29, 98; m. 23; c. 1. GUIDANCE. A.B, Baker, 20, LL.D, 51; B.S, Kansas State, 22; A.M, Chicago, 28; Columbia, 30; Stanford, 31; Ph.D.(ed, psychol), Yale, 34. Asst. prof. ed. & psychol. & dir. guid, Simmons Col, 34-38; assoc. prof. psychol. & admin. assoc, Okla. State, 38-39; prof. ed. & dean col, Drake, 39-45; prof. ed. & psychol. & head dept, KANSAS STATE, 46-51, prof. ed. & consult. guid. serv, 51-63, EMER. PROF. ED, 63- U.S.A.F, 42-45, Res, 45-58, Col. Personnel & Guid. Asn. Understanding and guidance of the individual; preparation of teachers, counselors and school administrators. Address: 2040 Thackrey Rd, Manhattan, Kans. 66502.

BAKER, PROF. HOWARD D(EHAVEN), b. Parkersburg, W.Va, July 12, 21; m. 47. PSYCHOLOGY. A.B, Washington (St. Louis), 41, M.A, 42; Ph.D, Columbia, 49. Asst. prof. hist, Hopkins, 48-50; from assoc. prof. exp. psychol. to PROF. PSYCHOL, FLA. STATE, 50- Nat. Inst. Neurol. Diseases & Blindness spec. fel. & vis. scientist, Cambridge Univ, 62-63. Mem, Armed Forces-Nat. Res. Coun. Cmt. Vision, 53- U.S.A.A.F, 42-45. Psychol. Asn; Optical Soc. Visual physiology and perception; color vision. Publ: Instantaneous threshold and early dark adaptation; Initial stages of dark and light adaptation, J. Optical Soc, 63; co-auth, Erythrolabe in normal eye, J. Physiol, 63. Address: Dept. of Psychology, Florida State University, Tallahassee, Fla. 32306.

BAKER, DR. JAMES C, b. Windfall, Ind, Mar. 10, 35; m. 55; c. 3. INTERNATIONAL BUSINESS ADMINISTRATION. B.S, Indiana, 61, M.B.A, 62, D.B.A. (int. bus. admin), 66. ASST. PROF. BUS. ADMIN, MARYLAND, 65-, summer res. grant, 67. U.S.A, 54-58. Econ. Asn; Acad. Polit. Sci; Asn. Ed. Inst. Bus. European capital market structure and management policy of German corporations. Publ: Co-auth, World marketing: a multinational approach, Wiley, 67. Address: Dept. of Business Administration, University of Maryland, College Park, Md. 20742.

BAKER, DR. JOHN D(ANIEL), JR, b. Logan, Utah, Mar. 23, 22; m. 49; c. 6. AGRICULTURAL ECONOMICS. B.S, Utah State Agr. Col, 43, M.S, 50; fel. & Ph.D.(agr. econ), Purdue, 52. Mem. res. staff agr. prices, Longstreet-Abbott & Co, Mo, 52-53; dir. dept. commodity anal. & price res, Hawley & Hoops, Inc, N.J, 53-58; commercial dir, M & M's Candies, 59-60; dir. materiel, Hunts Foods & Industs, 61-63; STAFF COMMERCIAL V.PRES, MARS INC, 63- U.S.A, 43-46, Capt. Statist. Asn. Agricultural prices. Publ: Evaluation of the accuracy of federal agricultural economic forecasts; co-auth, How accurate is outlook, J. Farm Econ; Outlook evaluation, methods and results, Agr. Econ. Res. Address: Mars Inc, 1155 15th St. N.W, Suite 800, Washington, D.C. 20005.

BAKER, DR. JOHN H, b. Akron, Ohio, Nov. 23, 36; m. 59; c. 2. POLITICAL SCIENCE. B.A, Claremont Men's Col, 58; Woodrow Wilson fel, Princeton, 58-59, Ph.D.(polit), 61. Asst. prof. polit. sci. & exec. secy, inst. studies federalism, Claremont Men's Col, 63-66; ASST. PROF. GOVT, SOUTHERN ILLINOIS, 66- Consult, Calif. Cong. Recognition Plan, 63-65. U.S.A, 61-63, Res, 63-, Capt. Polit. Sci. Asn. Intergovernmental relations; federal grants-in-aid to state and local governments; urban political process. Publ: The impact of federal aid to primary and secondary education, Inst. Studies Federalism, Claremont Men's Col, 66. Address: 1100 W. Carter, Carbondale, Ill. 62901.

BAKER, PROF. JOHN W(ESLEY), b. Austin, Tex, Aug. 6, 20; m. 43; c. 4. POLITICAL SCIENCE. B.A, Texas, 42; Ph.D.(polit. sci), California, 53. Instr, Trinity (Tex), 47-49; asst. prof, Florida, 52-53; assoc. prof. POLIT. SCI, Humboldt State Col, 53-58; PROF. & CHMN. DEPT, COL. WOOSTER, 58- Vis. scholar, California, Berkeley, 62-63, summer vis. prof, 66; guest scholar, Brookings Inst, 67-68; vis. prof, American Univ, 68. U.S.M.C, 42-46, Maj. Polit. Sci. Asn; Soc. Pub. Admin. Political theory; political parties; public policy. Publ: Co-auth, Member of the house. Address: Dept. of Political Science, College of Wooster, Wooster, Ohio 44691.

BAKER, DR. KATHERINE ELEANOR, b. Chicago, Ill, Feb. 6, 21. EXPERIMENTAL PSYCHOLOGY. B.A, Wellesley Col, 44; M.A, Columbia, 45, Ph.D, 48. Instr. PSYCHOL, Conn. Col, 47-52; asst. prof, NEBRASKA, 52-56, ASSOC. PROF, 56- AAAS; Psychol. Asn; Optical Soc; Psychonomic Soc. Visual perception; transfer of training; psychological scaling. Publ: Some variables influencing vernier acuity, J. Optical Soc. Am; On the derivation of equations relating data of fractionation and constant-sum to physical scales of measurement, Am. J. Psychol; co-auth, Stimulus pre-differentiation as a factor in transfer of training, J. Exp. Psychol. Address: Dept. of Psychology, University of Nebraska, Lincoln, Nebr. 68508.

BAKER, DR. KENNETH H(AMMOND), b. Randolph Center, Vt, Apr. 5, 07. PSYCHOLOGY. A.B, Ohio Wesleyan, 29, A.M, 30; Northwestern, 30-31; Ph.D, Ohio State, 34. Instr. psychol, Ohio State, 31-35; Minnesota, 35-37, asst. prof, 37-40; Ohio State, 40-41, assoc. prof, 45-46; dir. res, Nat. Asn. Broadcasters, 46-54; v.pres, Mkt. Res. Corp. Am, 54-56, 61-63; v.pres. mkt. develop, Cal-Ore TV Corp, 56-61; EXEC. DIR, BROADCAST RATING COUN, 64- U.S.A, 42-45, Col. Psychol. Asn. Human behavior; industrial psychology; market research. Address: Broadcast Rating Council, 420 Lexington Ave, New York, N.Y. 10017.

BAKER, PROF. L(AWRENCE) M(ANNING), b. Laurel Creek, Ky, Jan. 23, 07; m. 34; c. 3. PSYCHOLOGY. A.B, Berea Col, 29; fel, Kentucky, 31-33, A.M, 32, Ph.D.(psychol), 33; Chicago, 32. Teacher, high sch, Ky, 30-31; assoc. prof. psychol, Berea Col, 33-37, prof. & head dept, 37-44, acting dean, 41-43, dean upper div, 43-44; chief clin. psychologist, Vet. Admin, 46-47; assoc. prof. PSYCHOL, PURDUE, 47-51, PROF, 51- Clin. psychol. consult, Vet. Admin. Hosp, 47; State Dept. Ment. Health, Ind; consult, dept. humanities & soc. sci, Indian Inst. Tech, Kanpur, 67-68. U.S.N, 44-46. AAAS; fel. Psychol. Asn. Experimental and clinical psychology; learning; emotions. Publ: General experimental psychology; Laboratory experiments in general psychology. Address: Dept. of Psychology, Purdue University, West Lafayette, Ind. 47906.

BAKER, DR. LYNN E, b. Tacoma, Wash, Jan. 25, 09; m. 35; c. 4. PSYCHOLOGY. B.A. & M.A, Wisconsin, 33, Ph.D, 37. Instr. psychol, Wisconsin, 37-40; personnel res. & mgt. specialist, U.S. Govt, 40-48; private consult, indust. psychol, 48-50; dir. manpower res, human resources res. inst, Air Univ, 51-53; CHIEF PSYCHOLOGIST, U.S. DEPT. ARMY, 53- Dipl, Am. Bd. Exam. Prfnl. Psychol. AAAS; Psychol. Asn. Industrial psychology; human factors in military operations. Publ: Pupillary response conditioned to subliminal auditory stimuli, Psychol. Monogr; Army policy affecting human engineering research. Address: 6070 Edsall Rd, Apt. 202, Alexandria, Va. 22304.

BAKER, DR. MAURICE EDWARD, b. Connersville, Ind, Feb. 8, 35; m. 57. AGRICULTURAL ECONOMICS. B.S, Purdue, 57, M.S, 59; Ph.D, Ohio State, 61. Asst. agr. econ, Purdue, 57-59; Ohio State, 59-60, asst. instr, 60-61, asst. prof, 61; asst. res. specialist, Rutgers, 62-66, ASSOC. PROF. AGR. ECON, 66; NEBRASKA, 66- Econ. Asn; Agr. Econ. Asn; Mkt. Asn. Economics of water and land utilization by private and public sectors of our economy. Address: Dept. of Agricultural Economics, University of Nebraska, Lincoln, Nebr. 68503.

BAKER, DR. PAUL C(LEO), II, b. South Bend, Ind, Mar. 19, 21; m. 47. PSYCHOLOGY. A.B, Ball State Teachers Col, 47; M.S, Purdue, 48, Ph.D, 54.

Asst. dir. div. ed. reference, Purdue, 49-56; PSYCHOLOGIST, EMPLOYEE RELS. DEPT, STANDARD OIL CO.(N.J), 56- C.Eng, U.S.A, 43-45. Psychol. Asn; Inter-Am. Soc. Psychol. Industrial psychology; psychology of opinions and attitudes; statistics. Address: Employee Relations Dept, Standard Oil Co.(N.J), 30 Rockefeller Plaza, New York, N.Y. 10020.

BAKER, DR. PAUL E(ARNEST), b. Grapevine, Tex, June 13, 93. SOCIOLOGY. A.B, Trinity (Tex), 15; B.D, McCormick Sem, 18; M.A, Columbia, 20, Elmhirst Cmt. fel. & Ph.D, 34; S.T.B, Union Sem, 21. Minister, Morningside Presby. Church, N.Y, 18-24; chaplain & teacher relig, Fisk, 24-29; minister, Lincoln Park Community Church, 30-35; teacher soc. sci, Kamehameba Sch. for Boys, Hawaii, 35-41; dir. gen. studies, Hampton Inst, 42-46; teacher, Montecito Sch. for Girls, 46-47; chmn. sociol. dept. & dean men, Boise Jr. Col, 47-59; RETIRED. Counsr, Texas Woman's Univ, 61. Publ: Negro-White adjustment; The forgotten Kutenai; A study of the Presbyterian mission among the Mesquakie Indians in Tama, Iowa. Address: 427 W. Sycamore St, Denton, Tex. 76201.

BAKER, PROF. PAUL T(HORNELL), b. Burlington, Iowa, Feb. 28, 27; m. 49; c. 4. ANTHROPOLOGY. B.A, New Mexico, 51; Ph.D.(anthrop), Harvard, 56. Phys. anthropologist, Qm. Res. & Develop. Center, U.S. Dept. Army, 52-57; mem. staff, biophys. lab, PA. STATE, 57-58, asst. prof. ANTHROP, 58-61, assoc. prof, 61-64, PROF, 64-, acting chmn. dept. sociol. & anthrop, 64-65. Fulbright Cmn. res. fel, Peru, 62, lectr, Brazil, 62. Consult, HRB Singer, Inc. Mem. human adaptability subcmt, U.S. Int. Biol. Prog, 66-; behav. sci. B fels. rev. cmt, Nat. Insts. Health, 66- U.S.A, 45-47. AAAS; fel. Anthrop. Asn; Asn. Phys. Anthrop. Physical anthropology, especially application of physiological and psychological techniques to the problems of human evolution; adaptive mechanism in living human population, especially high altitude. Publ: Culture, climate and evolution, Human Biol, 62; Normative research on human growth and aging, In: The science of ionizing radiation, C.C. Thomas, 65; The biology of human adaptability, Oxford Univ, 66. Address: Dept. of Anthropology, Pennsylvania State University, University Park, Pa. 16802.

BAKER, PROF. RALPH L(AVERN), b. Clark Co, Ohio, Mar. 25, 13. AGRICULTURAL ECONOMICS. B.S, Ohio State, 38, M.S, 40; Ph.D, Iowa State Col, 49. Exten. assoc, Iowa State Col, 40-41; specialist, exp. sta, Texas, 41-42; asst. prof, Iowa State Col, 42-49, assoc. prof, 49-51; from assoc. prof. agr. econ. to prof. mkt, Pa. State, 51-61; PROF. POULTRY ECON, OHIO STATE, 61- Consult, U.S. Secy. Agr. Adv. Cmt. Egg Mkt, 62. Mem. poultry surv. cmt, Am. Feed Mfrs. Asn. & Nat. Turkey Fedn, 59-; steering cmt. egg pricing, Nat. Asn. State Secy. Agr, 60- Agr. Econ. Asn; Poultry Sci. Asn; World Poultry Sci. Asn. Economics of marketing; poultry marketing. Publ: Integrating egg production and marketing, U.S. Dept. Agr, 59; The role of convenience in food selection, Food Tech, 1/61; Egg marketing studies in the U.S.A, World's Poultry Sci, 64. Address: Poultry Administration Bldg, Ohio State University, 674 W. Lane Ave, Columbus, Ohio 43210.

BAKER, PROF. RICHARD CLEVELAND, b. Coxsackie, N.Y, Sept. 23, 03. POLITICAL SCIENCE. A.B, Harvard, 26; A.M, Cornell, 27; Ph.D, Columbia, 41. Asst. prof. hist. & govt, Ill. Wesleyan, 43; Allegheny Col, 43-46; assoc. prof. polit. sci, Pittsburgh, 46-47, Drake, 47-55; prof, Harding Col, 55-57; assoc. prof. govt, Southern Illinois, 57-62; PROF. POLIT. SCI. & HEAD DEPT, ROCKFORD COL, 62- Polit. Sci. Asn; Bar Asn. Tariff under Roosevelt and Taft. Address: 536 Seminary St, Rockford, Ill. 61108.

BAKER, DR. RICHARD D(ON), b. Corbin, Ky, Feb. 12, 25. POLITICAL SCIENCE. B.A, Kentucky, 46; M.A, Hopkins, 47; Southern Fels. Fund fel, North Carolina, Chapel Hill, 58-59, Ph.D.(polit. sci), 63. Indust. rels, Mene Grande Oil Co, Gulf Oil Corp, Venezuela, 47-50; U.S. Govt, 51-54; instr. POLIT. SCI, OKLAHOMA, 59-63, asst. prof, 64-67, ASSOC. PROF, 67- Prof-adv, Univ. Tennessee-Univ. Panama Proj, 62-64; vis. prof, Tulane, 65-66. Consult, Peace Corps Training, 61-66; Southwest. Alliance Latin Am. Studies, 66- U.S.A, 50-51. Polit. Sci. Asn; Latin Am. Studies Asn. Mexican amparo suit and judicial review; political development and revolutionary violence; United States-Latin American relations. Address: 826½ College Ave, Norman, Okla. 73069.

BAKER, PROF. RICHARD H(EINLEY), b. Seneca Co, Ohio, Dec. 14, 08; m; c. 2. AGRICULTURAL ECONOMICS. B.S, Ohio State, 30, M.S, 38, Ph.D, 48. Instr. AGR. ECON, OHIO STATE, 46-50, asst. prof, 50-54, assoc. prof, 54-66, PROF, 66- U.S.A, 43-45. Farm Econ. Asn. Economics of sheep enterprise on Ohio farms; milk production costs and types of management that will reduce costs; ten year study of accidental deaths to farm people in Ohio. Publ: Cost of producing milk in Ohio, 1945-1946, Plan dairy chores & Easier ways of handling ground feed, Res. Bull. Ohio Agr. Exp. Sta. Address: Dept. of Agricultural Economics, Ohio State University, Columbus, Ohio 43210.

BAKER, PROF. RICHARD M, JR, b. Akron, Ohio, July 28, 21; m. 44; c. 2. MARKETING. B.S, Kent State, 47; M.L, Pittsburgh, 48; Danforth fel, Fla. State, 55-58, U.S. Steel grant, 57-58, Ph.D.(commun, persuasion), 58. Instr. retailing, FLA. STATE, 50-58, asst. prof. MKT, 58-60, assoc. prof, 60-66, PROF, 66- U.S.N.R, 42-46, Capt. Mkt. Asn. Applications of communications, particularly persuasion, to business situations; philosophy of science as a potential business curriculum. Publ: Co-auth, Salesmanship: communication, persuasion, perception, Allyn & Bacon, 66; auth, Five factors of persuasion, Pub. Rels. J, 11/60; Emotional factors in selling insurance, J. Ins, 6/61. Address: Dept. of Marketing, School of Business, Florida State University, Tallahassee, Fla. 32306.

BAKER, DR. ROBERT A(LLEN), JR, b. Blackford, Ky, June 27, 21; m. 53; c. 5. PSYCHOLOGY. Fel, Stanford, 51, Ph.D.(psychol), 52. Res. scientist, Lincoln Lab, Mass. Inst. Tech, 52; sr. res. scientist, Continental Air Command, res. unit 1, HUMRRO, FT. KNOX, KY, 53-60, sr.staff scientist, US. ARMY ARMOR UNIT, 60-63, GROUP LEADER DIV. 2, 63- U.S.A, 42-45, Sgt. Psychol. Asn; Psychonomic Soc. Applied military and physiological psychology; learning; human engineering; vigilance. Publ: Tank commander's guide; Psychology in the wry, Van Nostrand, 63; Stress analysis of strapless evening gown, Prentice-Hall, 63. Address: HumRRO Division 2, (Armor), Ft. Knox, Ky. 40121.

BAKER, DR. ROBERT M(UNSON), Ed. Psychol, see 10th ed, Soc. & Behav. Vols. Latest known address: Coalinca College, Coalinca, Calif. 93210.

BAKER, DEAN ROBERT WILLIAM, b. Brookline, Mass, July 30, 24; m. 51; c. 3. PSYCHOLOGY. A.B, Hobart Col, 47; scholar, Clark, 48-49, fel, 49-53, Ph.D.(psychol), 53. Psychol. trainee, training prog. clin. psychol, Vet. Admin. Hosps, Mass, 48-52; staff clin. psychologist, Northampton, 53-54; asst. prof. PSYCHOL, CLARK, 54-57, assoc. prof, 57-66, PROF, 66-, DEAN STUDENTS, 65-, res. assoc, psychol. clin, 55-57, dir, 56-65. Attend. clin. psychologist, Vet. Admin, 54-55; part-time field selection officer, U.S. Peace Corps, 64-67. Consult, Worcester State Hosp. & Vet. Admin, 57-65. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N, 43-44. Fel. Psychol. Asn. University administration; personality determinants in response to stress; psychological disturbances in the academic situation; personality determinants of academic performance. Publ: Auth, Incidence of psychological disturbance in college students, J. Am. Col. Health Asn, 65; co-auth, A continued investigation of susceptibility to distraction in academically underachieving and achieving male college students, J. Ed. Psychol, 65; Students, parents and the college: Responsibilities and prerogatives in the distribution of grade reports, Lib. Ed, 67. Address: 398 May St, Worcester, Mass. 01602.

BAKER, DR. ROSCOE, b. Clay City, Ky, Mar. 2, 07. POLITICAL SCIENCE. A.B, Berea Col, 29; A.M, Ohio State, 33; London, 38-39; Ph.D, Northwestern, 51. Instr. polit. sci. & hist, Mich. State Col, 40-42, 45; polit. sci, prep. sch, U.S. Naval Acad, 42-43; Northwestern, 45-47; asst. prof, Colo. Col, 47-48; ASSOC. PROF, New Mexico Highlands, 48-51, 52-56; overseas, Univ. Maryland, 51-52, 56-59; Tampa, 59-61; govt, Northwest. State Col.(La), 61-62; POLIT. SCI, Col. Charleston, 62-64; MIDDLE GA. COL, 67- Polit. Sci. Asn. American legion and American foreign policy; Ohio House of Representatives. Publ: Equality and the Fourteenth Amendment, Historia, 55. Address: Dept. of Political Science, Middle Georgia College, Cochran, Ga. 31014.

BAKER, DR. SIMON, b. Revere, Mass, Aug. 3, 24; m. 53; c. 3. GEOGRAPHY. B.S, Arizona, 51, M.S, 52; fel, Clark, 54-56, Ph.D.(geog), 65; Nat. Res. Coun. grant, Ceylon, 56-57. Geogr. & plan specialist, Colombo plan proj, Photog. Surv. Corp. Toronto, Ceylon, 57-58; jr. planner, City Planning Dept, Worcester, Mass, 58-59; instr. earth sci, Mass. State Col. Bridgewater, 60; asst. prof. geog, Arizona, 60-66; GEOGR, ECON. RES. SERV, U.S. DEPT. AGR, 66- Prof. lectr, dept. geog, George Washington, 66- C.Eng, U.S.A, 43-46. AAAS; Asn. Am. Geog. Land use problems in Ceylon; geographic uses of aerial photographs; geography of South and East Asia; applications of remote sensing techniques; natural resources inventory. Publ: Co-auth, Chap. In: Resources of the Walawe Ganga Basin-Ceylon, Govt. Ceylon, 60; An Arizona economic and historic atlas, Univ. Arizona, 66; auth, Einführung und Verbreitung des Rindes in den Vereinigten Staaten von Amerika, In: Zeitschrift für Agrargeschichté und Agrarsoziologie, 10/67. Address: Economic Research Service, Natural Resource Economics Division, U.S. Dept. of Agriculture, Washington, D.C. 20250.

BAKER, DEAN THOMAS E(RIC), b. Cardiff, Wales, Oct. 3, 21; nat; m. 44; c. 5. POLITICAL SCIENCE. A.B, Harvard, 43, Ph.D, 47; A.M, Tufts, 44. Instr, Mass. Inst. Tech, 46-49; asst. prof. SOC. STUDIES, CASE WESTERN RESERVE, 49-50, ASSOC. PROF, 50-, DEAN STUDENTS, 57-, exec. officer, dept. soc. studies, 50-57. Am. Coun. Ed. fel. admin, Cornell, 67-68. Fel. AAAS; Polit Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. International relations; international law; integrated social science. Address: Dept. of Social Studies, Case Western Reserve University, University Circle, Cleveland, Ohio 44106.

BAKER, DR. WILLIAM BRYAN, b. Springfield, Mo, Apr. 14, 20; m. 42. GEOGRAPHY. B.S, Southwest Mo. State Col, 50; M.A, Nebraska, 53, Ph.D, 58. Instr. GEOG, Nebraska, 56-57; asst. prof, Tulsa, 57-63; ASSOC. PROF, SOC. SCI. DIV, SOUTHERN ILLINOIS, 63- U.S.N, 41-47, Lt. Comdr. Am. Geog. Soc; Asn. Geog. Urban geography. Address: Social Science Division, Southern Illinois University, Edwardsville, Ill. 62025.

BAKIS, PROF. EDWARD, b. Parnu, Estonia, May 21, 00; m. 32; c. 3. PSYCHOLOGY. M.Ph, Estonian State Univ, 34. From asst. to sr. instr. psychol, psychotech. inst, Estonian State Univ, 23-44, lectr. indust. psychol, 38-40; PSYCHOL, Baltic Univ. In Exile, Germany, 46-48, assoc. prof. & head dept, STERLING COL, 50-65, PART-TIME ASSOC. PROF, 65- Psychol. Asn. Problems of refugees; experimental psychology; theoretical psychology. Publ: Testing and marking from an experimentalist's point of view, In: 15th Yearbook, Nat. Coun. Measurements Used in Ed; Masterpieces of art as audio-visual aids, Psychol. Newsletter; Contrib. abstracts to: Psychol. Abstracts since 59. Address: 430 N. Broadway, Sterling, Kans. 67579.

BAKKE, PROF. E(DWARD) WIGHT, b. Onawa, Iowa, Nov. 13, 03. INDUSTRIAL ECONOMICS. A.B, Northwestern, 26, hon. LL.D, 64; Sterling fel, Yale, 31-32, Ph.D, 32. Instr. sociol, YALE, 32-34, asst. prof, 34-38, prof. ECON, 38-44, STERLING PROF, 44-, DIR. LABOR & MGT. CENTER, 44-, dir. of grad. studies econ, 40-50. Prin. consult. soc. economist, Soc. Security Bd, Wash, D.C, 36-39; consult, U.S. Dept. Labor; U.S. Dept. Navy; U.S. Dept. State; Norweg. Govt; For. Opers. Admin; Nat. Manpower Policy Task Force, 66- Bd. trustees, Quinnipiac Col; mem. corp, Haverford Col. Chmn. appeals cmt, War Labor Bd; mem. labor mkt. cmt, Soc. Sci. Res. Coun, 43-54. Econ. Asn; Indust. Rels. Res. Asn; Int. Indust. Rels. Asn. Industrial relations; labor economics; organizational theory; manpower problems and policy. Publ: Bonds of organization; Unions management and the public; co-auth, Positive labor market policy, C.E. Merrill, 63. Address: 2 Hillhouse Ave, New Haven, Conn. 06520.

BAKKEN, PROF. HENRY H(ARRISON), b. Arena, Wis, Mar. 24, 96; m. 22; c. 3. AGRICULTURAL ECONOMICS. A.B, Wisconsin, 22, A.M, 23; Harvard, 29-30. Asst. mkt, Wisconsin, 23-24, asst. prof. mkt. res, 24-34, assoc. prof, 34-43; chief economist, Off. Price Admin, 43-44; price adminstr, For. Econ. Admin. & Allied Control Cmn, Italy, 44-45; agr. specialist, U.S. Dept. State, Norway, 45-46; econ. adv, Econ. Situation Surv, Supreme Command Allied Powers, Japan, 46-47; assoc. prof. mkt. res, WISCONSIN, 47-53, prof.

AGR. ECON, 53-66, EMER. PROF, 66- Smith-Mundt exchange prof, Chile, 57; Fulbright exchange prof, Finland Univs, 62. Econ. consult, exp. sta, Puerto Rico, 53-54; Agrarian Reform Cmn, Orgn. Am. States, Honduras, 61. Prof. extraordinarias, Catholic Univ. Chile; life mem, Inst. de Econ, Chile. U.S.A, 18-19. Am. Econ. Asn; Farm Econ. Asn; Mkt. Asn; Royal Econ. Soc. Theory of marketing; international relations; cooperative organization. Publ: Auth, Basic concepts, principles & practices of cooperation, Mimir, 63; co-auth, Marketing & storage facilities-selected crops-Honduras, Weitz-Hettelrater Eng, 65; Marketing grain, Purdue, 67. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53705.

BAKKER, DR. CORNELIS B, b. Rotterdam, Holland, Jan. 6, 29; U.S. citizen; m; c. 3. PSYCHIATRY. M.D, Utrecht, 52. Intern, Clins. Rotterdam, 52-53; Sacred Heart Hosp, Spokane, Wash, 53-54; res. psychiat, East. State Hosp, Medical Lake, Wash, 54-56; psychiat. clins, Utrecht, 56-57; med. sch, Michigan, 57-59, jr. clin. instr, 57-58, instr, 58-60; instr, SCH. MED, WASHINGTON (SEATTLE), 60-63, asst. prof, 63-67, ASSOC. PROF, 67-, ATTEND. PHYSICIAN, UNIV. HOSP, 60-, DIR. ADULT PSYCHIAT. IN-PATIENT SERV, 62- Res. assoc, Ment. Health Res. Inst, Mich, 59-60; attend. physician, King County Hosp, Seattle, 60-61; Vet. Admin, Seattle, 61-Psychiat. consult, comprehensive cardiol. clin, Am. Heart Asn, 60-65; Voc. Rehab. Blind, 61-; Soc. Security Bur. Hearings & Appeals, 63- Mem, World Cong. Psychiat, 66. Psychiat. Asn; Col. Psychiat. Psychopathology; psychopharmacology. Publ: The influence of personality type on drug response, Am. J. Psychiat, 66; Side effects of oral contraceptives, Obstet. & Gynec, 66; Determinants of Angina Pectoris, Psychosom. Med, 67. Address: Dept. of Psychiatry, University of Washington School of Medicine, Seattle, Wash. 98105.

BAKKUM, PROF. GLENN A(LMER), b. Waukon, Iowa; m. 21. SOCIOLOGY. B.S, Iowa State Col, 20; A.M, Columbia, 25; Ph.D, Cornell, 28. Prof. sociol. & head dept, Munic. Univ. Wichita, 27-35, dir. bur. munic. soc. res, 30-33; prof. SOCIOL. & head dept, OREGON STATE, 35-61, EMER. PROF, 61-Vis. prof. Cornell, 50; Fulbright lectr, American Univ. Cairo, 51; Fulbright award, Pakistan, 61. Alumni Achievement award, State Col. Iowa, 63. U.S.A, 18, Lt. Sociol. Asn; Rural Sociol. Soc. Rural sociology; Oregon communities; social relationships of Slaterville Springs-Brooktondale Area, New York. Address: 521 N. 35th St, Corvallis, Ore. 97330.

BAKLANOFF, PROF. ERIC NICOLAS, b. Graz, Austria, Dec. 9, 25; nat; m. 57; c. 1. ECONOMICS. B.A, Ohio State, 49, M.A, 50, Ph.D, 58; Fulbright scholar, Univ. Chile, 57. Mgr. trainee, int. div, Chase Nat. Bank, 50-51, P.R. brs, 51-54; asst. econ, Ohio State, 54-55, asst. instr, 55-56; asst. prof, La. State, 58-61, assoc. prof, 61-62; assoc. prof. econ. & dir. Latin Am. Grad. Prog, Vanderbilt, 62-65; PROF. ECON. & DIR. LATIN AM. STUDIES INST, LA. STATE, 65- Ford Found. grant, case study seminar, Harvard, 59; fel, Center Adv. Study Behav. Sci, 64-65; Wenner-Gren Found. grant orgn. colloquium on modernization of Brazil, 67. Summers, Nat. Defense Ed. Act fel, Univ. Texas, 62, Vanderbilt travel res. grant, Brazil, 63, La. State Univ. Coun. Res. grant, workshop on econ. develop. of Mexico, Univ. of the Americas, 66, La. State Univ. Found. travel res. grant, Spain, 68. U.S.N, 44-46. International economics; comparative economic systems; Latin American affairs. Publ: Ed, New perspectives of Brazil, Vanderbilt, 66 & The shaping of modern Brazil, La. State Univ, 69; auth, U.S. mineral investments in a nationalistic setting: Chile's copper mining industry, 1944-1967, Proc. Coun. Econ, Am. Inst. Mining, Metall. & Petrol. Engrs, 68. Address: Dept. of Economics, Louisiana State University, Baton Rouge, La. 70803.

BAKONY, PROF. LEO I(RWIN), b. Humboldt, Sask, Oct. 11, 22; div. ECONOMICS. B.A, British Columbia, 44; Ph.D, Washington (Seattle), 59. Asst. prof. econ, Washington (Seattle), 58-59; Ford Found. fel, Northwestern, 59-60, asst. prof. Southern Methodist, 60-65; staff economist, Econ. Coun. Can, 65-67; PROF. ECON, VICTORIA (B.C), 67- Ford Found. faculty res. fel, Economet. Inst. Rotterdam, 63-64. Am. Econ. Asn; Economet. Soc; Can. Econ. Asn. Econometric studies of economic systems and sectors, especially Canada. Address: Dept. of Economics, University of Victoria, Victoria, B.C, Can.

BALABANIS, DEAN HOMER P(AUL), b. Brussa, Asia Minor, Aug. 25, 97. ECONOMICS. Ph.B, Chicago, 20, A.M, 23, Ph.D, 31. From instr. to PROF. ECON, HUMBOLDT STATE COL, 23-, V.PRES, 30-, DEAN ARTS & SCI. & DIR. SUMMER SESSION, 46-, DEAN INSTR, 50- Vis. prof, San Jose State Col; Fresno State Col; Miami (Ohio); sr. economist, Off. Price Admin, D.C, 43; prin. div. asst, U.S. Dept. State, 43-44. Mem, Calif. Arts Cmn, 63-67. AAAS; Econ. Asn; Acad. Polit. & Soc. Sci. Money market; European economic reconstruction; American discount market. Address: Dept. of Economics, Humboldt State College, Arcata, Calif. 95521.

BALABKINS, PROF. NICHOLAS, b.Daugavpils, Latvia, July 17, 26; nat; m. 53. ECONOMICS. Dipl.rer.pol, Göttingen, 49; M.A, Rutgers, 53, Ph.D, 56. Instr. ECON, Washington & Jefferson Col, 56-57; asst. prof, LEHIGH, 57-62, assoc. prof, 62-66, PROF, 66- Econ. Hist. Asn; Econ. Asn; Asn. Adv. Slavic Studies. Economic theory; Soviet economics. Publ: Germany under direct controls, Rutgers Univ, 64; Repressed inflation in West Germany from 1945 to 1948. Some qualitative observations, Kyklos, 62; Industrial disarmament of West Germany in the perspective of growth theory, II Politico, 66. Address: Dept. of Economics, Lehigh University, Bethlehem, Pa. 18015.

BALAMUTH, EVE, Statist, see WEINBLATT, EVE.

BALASSA, PROF. BELA, b. Budapest, Hungary, Apr. 6, 28; m. 60. INTERNATIONAL ECONOMICS. Dr. iur. rer. pol, Budapest, Hungary, 51; Ph.D. (econ), Yale, 59. Bus. mgr, Construct. Trust, Sztalinvaros, 53-56; asst. prof. econ, Yale, 59-62, assoc. prof, 62-66; PROF. POLIT. ECON, HOPKINS, 67- Econ. adv. dept. econ, Int. Bank Reconstruction & Develop, D.C, 66-67. Consult, U.S. Dept. State, 63; Orgn. Econ. Coop. & Develop, Paris, 63; U.S. Dept. State, Agency Int. Develop, 63-65; UN Econ. Cmn. for Asia & Far East, 64; UN Conf. Trade & Develop, 66; U.S. Dept. Treas, 66-67; Int. Bank Reconstruction & Develop, 66- Am. Econ. Asn; Economet. Soc; Royal Econ. Soc. International economic integration; economic planning in Soviet type economies and underdeveloped countries; relationship between trade and development. Publ: Theory of economic integration; Trade prospects for developing countries; Trade liberalization among industrial countries: objectives and alternatives. Address: Dept. of Political Economy, Johns Hopkins University, Baltimore, Md. 21218.

BALCH, DR. FRANKLIN G, III, b. Boston, Mass, Dec. 9, 27; m. 62. POLITICAL SCIENCE. A.B, Harvard, 49, fel, 57-62; M.A, Virginia, 50; Fletcher fel, Tufts, 56-57, M.A, 57, Ph.D.(polit. sci), 62. Exec. asst. to chancellor, Free Europe Univ. in Exile, 51-54; teaching asst. & tutor govt, Harvard, 60-62; lectr, Wesleyan, 62-66, asst. dean of students, 62-65, dir. honors col, 64-66; ASSOC. PROF. GOVT. & DIR. SUPERIOR STUDIES FOR UNDERGRAD, SOUTHERN METHODIST, 66- Polit. Sci. Asn. American foreign policy; international organization; totalitarianism. Publ: Co-auth, Alliances and weapons: an organizational analysis, Harvard Defense Studies Prog, 2/58. Address: Clements Hall, University College, Southern Methodist University, Dallas, Tex. 75222.

BALDAUF, DR. ROBERT JOHN, b. Fond du Lac, Wis, Feb. 10, 23; m. 45; c. 1. PSYCHOLOGY. B.S, Washington (St. Louis), 49, M.A, 51; Ed.D.(psychol), Colorado, 60. Psychologist, Alton State Hosp, 49-50; Bellville Jr. Col, 50-51; South. Wis. Col. & Training Sch, 51-52; prof. soc. sci, Shurtleff Col, 52-53; psychologist, pub. schs, Iowa, 53-58; DIR. RES, OAK PARK PUB. SCHS, 58- Summer lectr, sch. psychol, Iowa, 54-58, San Jose State Col, 60, Vermont, 61-62. Consult, 58- U.S.A, 43-49, Lt. Psychol. Asn. Development of learning designs for bright underachieving children; application and investigation of response mode and pacing of auto-instructional programed materials in the classroom. Publ: The role of the school psychologist, Nation's Sch; Educational growth of mentally advanced pupils in the Cedar Rapids experiment & Listening comprehension and school achievement, J. Ed. Res. Address: 122 Forest Ave, Oak Park, Ill. 60301.

BALDERSTON, DR. C. CANBY, b. Kennett Square, Pa, Feb. 1, 97; m. 22; c. 2; m. 42. INDUSTRIAL ADMINISTRATION. B.S, Pennsylvania, 21, A.M, 23, Ph.D, 28, hon. LL.D, 55, Swarthmore Col, 65. Instr. indust, Wharton Sch. Finance & Commerce, Pennsylvania, 21-23, asst. prof, 25-31, prof, 31-54; dean, 41-54; mem. bd. governors, Fed. Reserve Syst, 54-66, v.chmn, bd, 55-66; MEM. BD, ELWYN INST, 66- Mem. dept. res. & statist, Phila, Fed. Reserve Bank, 22-23, dir. & dep. chmn; pres, Leeds & Lippincott Co, 51-; chmn. bd. & pres, Nat. Bur. Econ. Res. Adj. prof, American Univ, 66-; regents lectr, California, Berkeley, 66. Trustee, Bryn Mawr Col. Chief wage admin. agency & wage admin. sect, Hq, Army Serv. Forces, U.S. War Dept, 42-45. Am. Red Cross, 17-19, Lt. Econ. Asn. Wage and salary administration; incentives; industrial management and relations. Publ: Co-auth, Management of an enterprise; auth, Profitsharing for wage earners; Executive guidance of industrial relations. Address: 749 W. Rosetree Rd, Media, Pa. 19063.

BALDI, PROF. JOHN JOSEPH, b. Boston, Mass, July 24, 16; m. 41; c. 5. SOCIOLOGY. A.B, Boston Col, 39, M.S.S.W, 41; cert, Pennsylvania, 61. Caseworker, Family Soc, Mass, 41-43; dir. infor, Greater Boston United Serv. Orgns, 43; home serv. secy, Everett br. off, Am. Red Cross, 46; psychiat. soc. worker for blind vet. regional off, 48; instr. sociol, SCRANTON, 48-50, asst. prof. sociol. & acting chmn. dept. soc. sci, 50-54, ASSOC. PROF. SOCIOL. & CHMN. DEPT. SOC. SCI, 54-, DIR. RES. BUR, 64- Instr, div. univ. exten, State Dept. Ed, Mass, 42-43; dir. tuberc. surv, Lackawanna Tuberc. Soc, 49; Nat. Inst. Ment. Health res. grant, Pennsylvania, 60; Nat. Sci. Found. res. grant, Colorado, 61. Student supvr. & consult, Cath. Charities, Pa, 49-50; consult, Hyde Park YMCA, Mass, 42-43; family & child care div, Welfare Coun. Lackawanna County, 50; Candeub, Cabot & Assocs, 55- V.chmn, State Bd. Pub. Welfare, Pa, 60-; mem, Governor's Cmt. Children & Youth, 56-; Pa. Welfare Cmt, 61- Intel.C, U.S.A, 43-45. Address: Dept. of Sociology, University of Scranton, Scranton, Pa. 18510.

BALDORIA, PROF. PEDRO L, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BALDOS, DR. CORAZON SARINAS, b. Bataan, Philippines, June 28, 19; nat; wid; c. 1. PSYCHOLOGY. B.S.E, Far East. Univ, Manila, 47; Fulbright, Philippine Govt. & univ. scholars, Eastern Kentucky, 49-50, M.A, 50; summer, Columbia, 50; Philippines, 50-54; univ. scholar, Indiana, 54-56, M.S, 56, Kappa Kappa Gamma fel, 56-57, Ph.D.(ed. psychol), 57; Loyola, 59-60; Chicago, 61-62. Ed. editor, mag. & newspaper for children, Am. Embassy, Philippines, 50-51; lectr. & assoc. prof. psychol, ed. & Eng, Far East. Univ, Manila, 51-54; asst. child psychol. & ment. health, Indiana, 54-56; chief child & adolescent psychol. dept, Ment. Health Inst, Independence, Iowa, 56-59, dir. ed. prog, 56-57; supv. psychologist, Chicago State Hosp, 59-62; sr. psychologist & teaching fel, psychiat. dept, psychol. div, Mt. Sinai Hosp, New York & Neuropsychiat. Inst, Queens, 62-63; sr. staff psychologist, St. Vincent's Guid. Inst, New York, 63-66; chief clin. psychologist, Sussex County Ment. Health Center, Newton, N.J, 66-67; assoc. dir. training & develop, Am. Mgt. Psychologists, Inc, 67-68; CHIEF PSYCHOLOGIST, QUAKER CMT. SOC. REHAB, NEW YORK, 68-; PSYCHOTHERAPIST, JAMAICA CENTER PSYCHOTHER, FOREST HILLS & COMMUNITY GUID. SERV, INC, 68- Instr, Univ. Chicago, 60-62, lectr. & instr, eve. col, 61-62; instr, Columbia, 64-66; summer instr, City Col. New York, 66. Private practice of psychotherapy, 66-67. Psychol. Asn. Publ: Treatment of anxiety and depression in high school students, N.J. Med. J, 1/68; The psychology of the human voice; Treating the detoxicated drug addicts. Address: 200 E. 27th St, New York, N.Y. 10016.

BALDWIN, PROF. ALFRED L(EE), b. Winfield, Kans, Oct. 5, 14; m. 29; c. 3. PSYCHOLOGY. A.B, Kansas, 35, M.A, 36; Ph.D.(psychol), Harvard, 41. Asst. instr, Kansas, 35-38, prof. psychol. & chmn. dept, 49-53; asst, Harvard, 38-41; from asst. prof. to assoc. prof. psychol, col, & res. assoc, Samuel S. Fels Res. Inst, Antioch Col, 41-49; prof. child develop. & family rel. & head dept, Cornell, 53-64; prof. psychol, N.Y. Univ, 64-68; DIR. UNIV. CENTER RES. ED. & PROF. PSYCHOL, CHILD DEVELOP. & FAMILY RELS, CORNELL, 68- Grants, Nat. Inst. Ment. Health, 60-71 & Off. Ed, 65-70. Res. assoc, Nat. Defense Res. Cmt, 43-45; mem, ment. health study sect, Nat. Inst. Ment. Health, 57-64, prog-proj. cmt, 65-68. Psychol. Asn; Soc. Res. Child Develop.(pres, 61-63). Child behavior; personality develop-

ment; parental attitudes; cognitive development; evaluation of educational curricula. Publ: Behavior and development in childhood; Theories of child development, Wiley, 67; co-auth, Patterns of parent behavior, Psychol. Monogr. Address: Center for Research in Education, Cornell University, Ithaca, N.Y. 14850.

BALDWIN, ARMAND-JEAN, b. Lapeer, Mich, July 26, 17. ECONOMICS. A.B, St. Vincent Col, 40, A.M, 44; Pittsburgh, 43; A.M. & Ph.D, Georgetown, 48. Instr, St. Vincent Col. & Georgetown, 47; asst. prof. ECON, ST. VINCENT COL, 47-49, assoc. prof, 49-61, PROF, 61-, HEAD DEPT, 49- Ford Found. faculty res. fel, Princeton, 61; vis. prof, grad. sch, Fujen Univ, Taipei, Taiwan, 67-68. Econ. Asn; Economet. Soc; Acad. Econ. & Polit. Sci; Am. Soc. Int. Law. Principles of political science; political evolution of Russian institutions. Publ: Russia: from the Decembrists to the Bolsheviks; Christian principles of political science; Fundamentals of contemporary foreign governments. Address: Dept. of Economics, St. Vincent College, Latrobe, Pa. 15650.

BALDWIN, DR. CLAUDE D(AVID), b. Wellington, Colo, May 29, 17; m. 42. ECONOMICS. B.S, Denver, 37, M.S, Illinois, 38, fel, 38-40, Ph.D.(econ), 40. Instr. econ, West Virginia, 40-41; Kansas, 41-42; asst. prof, Indiana, 46-47; v.pres, Jefferson County Bank, Colo, 48-50; managing dir, Metrop. State Bank, 50-51; fiscal analyst, U.S. Bur. Budget, 51-52; chief fiscal anal, Off. Asst. Secy. Defense, 52-55; systs. asst, Hq, U.S. Air Force, 55-61; chief prog. eval. & statist. div, Fed. Aviation Agency, 61-62; ASST. DIR. RES. DIV, INTERNAL REVENUE SERV, 62- U.S. Dept. Air Force Except. Civilian Serv. award, 57. U.S.N, 42-46, Lt. Econ. Asn. Economic theory, especially in comparative economic systems; automatic data processing systems and equipment. Publ: Theory of Economic Planning; Principles of Economics; U.S. Air Force Account Structure and Codes. Address: 2234 49th St. N.W, Washington, D.C. 20007.

BALDWIN, DR. DAVID ALLEN, b. Indianapolis, Ind, July 28, 36; m. 57; c. 2. POLITICAL SCIENCE. A.B, Indiana, 58; Woodrow Wilson fel, Michigan, 58-59; Danforth fel. & Ph.D.(polit. sci), Princeton, 65. Res. fel. for. policy, Brookings Inst, 64-65; ASST. PROF. GOVT, DARTMOUTH COL, 65- U.S.A, 62-63, Res, 63-65, Capt. Polit. Sci. Asn. Publ: Economic development and American foreign policy, Univ. Chicago, 66; Foreign aid and American foreign policy, Praeger, 66; co-auth, Canadian-American relations, Dartmouth, 67. Address: Dept. of Government, Dartmouth College, Hanover, N.H. 03755.

BALDWIN, PROF. EDWARD B(RASWELL), b. Battleboro, N.C, Jan. 30, 05; m. 34; c. 1. GEOGRAPHY. A.B, Wofford Col, 26; A.M, Peabody Col, 31, Ph.D, 42. Asst. prof, Ala. State Teachers Col, Florence, 35-39; PROF. GEOG, MIDDLE TENN. STATE, 39-, CHMN. DEPT, 65- Asn. Am. Geog; Nat. Coun. Geog. Ed. High school social science teachers of Tennessee. Address: 1810 Jordan Ave, Murfreesboro, Tenn. 37130.

BALDWIN, DR. GEORGE B(ENEDICT), b. Cambridge, Mass, Apr. 25, 20; m. 45; c. 2. ECONOMICS. A.B, Princeton, 42; Soc. Sci. Res. Coun. fel, Mass. Inst. Tech, 49-50, Fulbright fel, 50-51, Ph.D.(econ), 52. Asst. econ, Princeton, 44-45; ed, Bur. Nat. Affairs, Inc, D.C, 45-47; asst. prof. econ, Mass. Inst. Tech, 52-56, exec. asst. to dir. center int. studies, 54-56; vis. assoc. prof. econ. & bus. admin, Vanderbilt, 56-58, from asst. dir. to dir. grad. training prog. econ. develop, 56-58; with Harvard Univ. Adv. Group Plan Orgn, Iran, 58-61, res. assoc, center int. affairs, univ, 61-62; economist, INT. BANK RECONSTRUCT. & DEVELOP, 62-67, ASST. DIR. ECON. DEVELOP. INST, 67- Consult, Arthur D. Little, Mass, 55; ed. & world affairs, 64- U.S.A, 43. Econ. Asn; Soc. Int. Develop. Economic development; technological change; industrial relations. Publ: Beyond nationalization, the labor problems of British coal, Harvard, 55; Industrial growth in South India: case studies in economic development, Macmillan, 59; Planning and development in Iran, Johns Hopkins, 67. Address: World Bank, 1818 H St. N.W, Washington, D.C. 20433.

BALDWIN, DR. RAYMOND W(ILLIAM), b. McPherson, Kans, Sept. 26, 85. FINANCE. A.M, Kansas, 08; Nebraska, 09-10; Ph.D, Chicago, 33. Dir. bus. admin, Morningside Col, 33-37; sch. bus, HOUSTON, 37-41, prof. FINANCE, 41-55, EMER. PROF, 55- Econ. Asn; Economet. Soc; Finance Asn. Price differentials of wheat. Address: 4334 Effie St, Bellaire, Tex. 77401.

BALDWIN, DR. ROBERT D(UFF), b. Detroit, Mich, Feb. 4, 27; m. 51; c. 3. PSYCHOLOGY. A.B, Wayne State, 50; M.A, Iowa, 52, Ph.D, 54. Res. assoc. mil. psychol, HumRRO, 54-56, res. scientist, 56; sr. opers. analyst, Convair Div, Gen. Dynamics Corp, Tex, 56-57; sr. scientist mil. psychol, HUMRRO, 57-61, sr. staff scientist, 61-62, DIR. RES, 62- Psychol. Asn. Military psychology; learning; perception; measurement; experimental design. Publ: Radar target detection as a function of noise level, velocity and location, J. Appl. Psychol; co-auth, Sources of variability in missile unit evaluations, 66 & Aircraft detection, range estimation and auditory tracking tests in a desert environment, 67, HumRRO. Address: Division 5, Human Resources Research Office, Ft. Bliss, Tex. 79916.

BALDWIN, PROF. ROBERT E(DWARD), b. Niagara Falls, N.Y, July 12, 24; m. 54; c. 4. ECONOMICS. A.B, Buffalo, 46; M.A. & Ph.D.(econ), Harvard, 50. Asst. prof. ECON, Harvard, 50-57; assoc. prof, California, Los Angeles, 57-60, PROF, 60-63; WISCONSIN, 63- Chief economist, off. spec. trade rep, Exec. Off. President, 63-64; res. prof. trade, Brookings Inst, 67-68. International trade; economic development; business cycles. Publ: Economic development and export growth, Univ. California, 66; Economic development and growth, Wiley, 66. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53705.

BALDWIN, ROGER N(ASH), b. Wellesley, Mass, Jan. 21, 84; m. 36; c. 3. SOCIOLOGY. A.B, Harvard, 04, A.M, 05. Instr. sociol, Washington (St. Louis), 06-09; secy, St. Louis Civil League, 10-20; dir, AM. CIVIL LIBERTIES UNION, 20-50, nat. chmn, 50-55, ADV. INT. AFFAIRS, 55- Mem. faculty, New Sch. Soc. Res, 37-41; Godkin lectr, Harvard, 39; prof, law sch. seminar, Puerto Rico, 64- Consult, Japan & Germany, 48-50; P.R. & Virgin Islands, 54- Hon. pres, Int. League Rights of Man, UN Affiliate, 45-Polit. Sci. Asn; fel. Am. Acad. Arts & Sci. Political science; civil liberties. Address: American Civil Liberties Union, 156 Fifth Ave, New York, N.Y. 10010.

BALDWIN, DR. THOMAS SANDERSON, b. Orangeburg, S.C, May 23, 32; m. 53; c. 2. PSYCHOLOGY, EDUCATION. B.S, South Carolina, 53, M.A, 54; Nat. Security Agency fel, Ohio State, 57-58, Ph.D.(indust. psychol), 60. Res. psychologist, Nat. Security Agency, 56-61; res. specialist psychol, N.Am. Aviation, Inc, Columbus, Ohio, 61-63; asst. prof. psychol, North Carolina, 63-66, assoc. prof. ed. & psychol, 66-67; ASSOC. PROF. ED, ILLINOIS, URBANA, 67- U.S. Off. Ed. grant, 67-70. Consult, Corning Glass Works, Inc, 63-65; Aeroglide Corp, 63-66; United Brass Works, Inc, 64-66; N.C. Dept. Community Col, 64-67; Textile Mach. Works, Inc, 66; N.C. Cmn. Blind, 67- U.S.A.F, 54-56, 1st Lt. Psychol. Asn; Asn. Univ. Prof. Publ: A hierarchial factor analysis of items in the MMPI, In: Personnel research report series 61-1 & Relationships among personality, cognitive and job performance measures, In: series 61-2, Nat. Security Agency, 6/61. Address: College of Education, University of Illinois, Urbana, Ill. 61801.

BALDWIN, PROF. WILLIAM LEE, b. New York, N.Y, Apr. 12, 28; m. 56; c. 2. ECONOMICS. B.A, Duke, 51; M.A, Princeton, 53, Ph.D, 58. Asst. instr. ECON, Princeton, 52-53, instr, 53-56; DARTMOUTH COL, 56-58, asst. prof, 58-63, assoc. prof, 63-67, PROF, 67-, ASSOC. CHMN. DEPT, 65- Vis. asst. prof, Princeton, 61-62; Brookings res. prof, Brookings Inst, 63-64. Ord.C, 46-47, Res, 50-51, Sgt. Econ. Asn. Industrial concentration; public policy. Publ: Antitrust and the changing corporation; Structure of the defense market: 1955-64, Duke, 67; Motives of managers, environmental restraints and the theory of managerial enterprise, Quart. J. Econ, 64. Address: Dept. of Economics, Dartmouth College, Hanover, N.H. 03755.

BALER, DR. LENIN A(LLEN), b. Waltham, Mass, Mar. 24, 22; m. 55; c. 3. PSYCHOLOGY. A.B, Harvard, 47, S.M, 60, S.D.(hyg), 62; A.M, Boston, 48, Ph.D.(psychol), 50. Asst. prof. psychol, New Hampshire, 51-56, assoc. prof, 56-61; lectr. ment. health, sch. pub. health, Harvard, 61-62, asst. prof, 62-66; assoc. prof. psychol, Boston Col, 66-67; ASSOC. PROF. CLIN. PSYCHOL, MICHIGAN, 67-, ASSOC. PROF. COMMUNITY MENT. HEALTH, SCH. PUB. HEALTH, 67- Res. dir, Washtenaw County Community Ment. Health Center, 67- Consult, inst. prev. & control of alcoholism & alcohol probs, Nat. Inst. Ment. Health, 67- U.S.A, 43-46. Fel. Pub. Health Asn; Psychol. Asn. Community mental health theory, practice, training and research. Publ: Community mental health: training program in a school of public health, 65 & Training for research in community mental health, 67, Community Ment. Health J; co-auth, A prognostic (predictive) classification of juvenile court first offenders based on a follow-up study, Brit. J. Criminol, 10/66. Address: 1144 Aberdeen Dr, Ann Arbor, Mich. 48104.

BALES, PROF. ROBERT F(REED), b. Ellington, Mo, Mar. 9, 16; m. 42. SOCIOLOGY. B.S, Oregon, 38, M.S, 40; A.M, Harvard, 43, Ph.D, 45. Instr. sociol, HARVARD, 45-47, asst. prof, 47-51, lectr, 51-55, assoc. prof. SOC. REL, 55-57, PROF, 57-, dir. lab. soc. rel, 61-67. Lectr, sch. alcohol studies, Yale, 45-47, 50; Salzburg Seminar Am. Studies, 52, 56. Consult, Rand Corp, 51-60. Mem. bd. sci. counsr, Nat. Inst. Ment. Health, 57-60. Fel. Sociol. Asn; Psychol. Asn. Social interaction; small social groups; interaction process analysis, a method for the study of small groups. Address: 1320 William James, Harvard University, Cambridge, Mass. 02138.

BALESTER, DR. RAYMOND J(AMES), b. Albion, N.Y, Dec. 9, 17. PSYCHOLOGY. Ph.D.(psychol), Vanderbilt, 56. Act. dir. & chief psychologist, Ment. Hyg. Clin, N.C, 51-52; chief psychologist, Cent. State Hosp, Tenn, 54-55; asst. prof. psychol, Vanderbilt, 55-56; dep. cmnr, State Dept. Ment. Health. Tenn, 56-61; chief exp. & spec. training br, NAT. INST. MENT. HEALTH, 61-67, ACTING DIR. DIV. MANPOWER & TRAINING, 67- U.S. Pub. Health Serv. career teaching award, 55-56. U.S.A, 42-46. AAAS; Psychol. Asn. Self-concept; measurement; therapy. Publ: Self-concept and juvenile delinquency. Address: 7805 Overhill Rd, Bethesda, Md. 20014.

BALICKA, SOPHYA M, b. Pittsburgh, Pa. INTERNATIONAL ECONOMICS. B.S, Loyola (Ill), 38; Northwestern, 39-41; George Washington, 51-52. Employ. rels. rep. & interviewer, Ill. Employ. Serv. & War Manpower Cmn, 39-43; chief labor statist. & res. br, Supreme Comdr. Allied Powers, U.S. Dept. Army, Japan, 46-51; chief statist. & econ. adv, Govt. Philippines, INT. COOP. ADMIN, 52-57, economist, D.C, 57-61, asst. dir. econ. planning, Mission Pakistan, 61-64; PROG. OFFICER, AGENCY INT. DEVELOP. TURKEY, 64-68. Lectr, Univ. Philippines & Univ. East. Philippines, 52-57. U.S.A, W.A.C, 43-45. Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn; Asn. Asian Studies; Soc. Int. Develop; Philippine Statist. Asn. Development of procedures and concepts for economic planning in underdeveloped countries; development of basic economic and social statistics, especially manpower and cost of living statistics. Address: 4137 Henderson St, Chicago, Ill. 60641.

BALINKY, PROF. ALEXANDER S(HURA), b. Russia, Oct. 24, 19; nat; m. 51. ECONOMICS. B.A, California, Los Angeles, 40, fel, 41; fel, Harvard, 46, M.A, 47, Ph.D, 55. Asst. prof. ECON, RUTGERS, 47-59, assoc. prof, 59-63, PROF, 63-, DIR. RUSSIAN AREA STUDIES, 67- Soviet area; public finance; economic history. Publ: Economics in the public interest; Albert Gallatin: fiscal theories and policies; co-auth, Planning and the market in the USSR: the 1960'ies, Rutgers, 67. Address: 58 Hillcrest Rd, R.D. 1, Martinsville, N.J. 08836.

BALINSKY, PROF. BENJAMIN, b. New York, N.Y, Oct. 26, 13; m. 37; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 35; M.A, Columbia, 37; Ph.D.(psychol), N.Y. Univ, 40. Res. & clin. psychologist, Bellevue Hosp, 35-39; chief psychologist, consult. serv, Nat. Youth Admin, 40-42; counsr, consult. & researcher, Voc. Adv. Serv, 42-47; from instr. to assoc. prof. PSYCHOL, CITY COL. NEW YORK, 47-61, PROF, 61- Consult, United Serv. New Am, 49; Richardson, Bellows, Henry & Co, 52-60; Balinsky, Feinberg & Shaw Psychol. Assocs, Inc, 60-64, chief consult, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol, 49. Fel. AAAS; fel. Psychol. Asn; Personnel & Guid. Asn. Projective techniques and other tests and measures; clinical interviewing adapted to industry; personality dynamics. Publ: Co-auth, Counseling and psychology & Executive interview; auth, Selection interview: Essentials for

management, M.M. Bruce, 64. Address: Dept. of Psychology, Baruch School, City College of New York, 17 Lexington Ave, New York, N.Y. 10010.

BALKEN, DR. EVA RUTH, Psychol, see 10th ed, Soc. & Behav. Vols.

BALL, PROF. ALDON GORDON, b. North Gower, Ont, Can, Jan. 21, 17; nat; m. 50; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Toronto, 49; M.S, Iowa State, 50, Ph.D, 54. Teacher, pub. sch, Ont, Can, 36-41; tech. officer agr. econ, Can. Govt, 45-49; instr, Iowa State, 49-54, asst. prof, 53-55, assoc. prof, 55-58, prof, 58-60; prof. agr. econ, Univ. Alberta & dir. farm econ. br, Govt. Alberta, 60-61; PROF. AGR. ECON, IOWA STATE, 61- Mem. cmt. agr. econ, Res. Coun. Can, 60-61. R.C.A.F, 41-45. Farm Econ. Asn; Can. Agr. Econ. Soc; Agr. Inst. Can. Financial security; use of credit; agricultural adjustment; efficiency of mechanization in crop production; economics of conservation. Publ: Economic evaluation of use of soil conservation and improvement practices; Factors influencing agricultural adjustment; agriculture in the mid-fifties; Why adjustment is difficult. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50010.

BALL, PROF. ARTHUR LEWIS, Psychol, see 10th ed, Soc. & Behav. Vols.

BALL, PROF. CLYDE L(OWELL), b. Rutherford, Tenn, Oct. 12, 16; m. 51; c. 4. LAW, POLITICAL SCIENCE. B.S, Memphis State Col, 36; M.A, Vanderbilt, 37, LL.B, 49. Teacher, pub. sch, Tenn, 37-39; N.Mex, 39-41; partner law, Ball, McLemore & Holt, Tenn, 49-53; asst. prof. law, Vanderbilt, 53-55; vis. asst. prof, Columbia, 55-56; assoc. prof. pub. law & govt, North Carolina, Chapel Hill, 56-62, PROF, 62-64; LAW, MEMPHIS STATE, 64- U.S.A, 42-46, Capt. Organization and functioning of state legislatures; unified state court system. Address: Dept. of Law, Memphis State University, Memphis, Tenn. 38111.

BALL, DR. DAVID STAFFORD, b. Hong Kong, Aug. 17, 37; U.S. citizen. ECONOMICS. Ph.D.(econ), North Carolina, 67. ASST. PROF. ECON, Vanderbilt, 63-66; N.C. STATE, 66- Basis and structure of international trade and protection; international monetary problems. Address: Dept. of Economics, North Carolina State University, Raleigh, N.C. 27607.

BALL, PROF. JOHN C(HARLES), b. New York, N.Y, May 14, 24; m; c. 2. SOCIOLOGY. B.S, Cent. Conn. State Col, 49; M.A, George Peabody Col, 50; summers, Connecticut, 51, Harvard, 52; Ford fel, Vanderbilt, 54-55, Ph.D. (sociol), 55. Teacher, high sch, Miss, 50-53; res. asst, Vanderbilt, 54-55; from instr. to assoc. prof. SOCIOL, KENTUCKY, 55-67, PROF, 67-; CHIEF SOCIOL. UNIT, ADDICTION RES. CENTER, NAT. INST. MENT. HEALTH, 62- Dir. Soc. Sci.Res. Coun. grant; recipient, Ky. Res. Found. res. grants. Mem. assembly of scientists, Nat. Inst. Neurol. Diseases & Blindness; res. cmt, Int. Coun. Sport & Phys. Ed, UNESCO, 62-63. Del, White House Conf. Drug Addiction, 62. U.S.A, 43-46. Fel. Sociol. Asn; Int. Soc. Criminol. Criminology, especially juvenile delinquency; research methodology; social psychology. Publ: A scale and factorial analysis of delinquent attitudes; Social deviancy and adolescent personality: An analytical study with MMPI; The deterrence concept in criminology and law, J. Criminal Law, Criminol. & Police Sci. Address: Dept. of Sociology, University of Kentucky, Lexington, Ky. 40506.

BALL, DR. JOHN MILLER, b. Highland Park, Mich, Jan. 7, 23; m. 46; c. 3. GEOGRAPHY. A.B, Central Michigan, 48; A.M, Michigan, 50; Salisbury fel, Chicago, 51, S.M, 52; Ph.D, Mich. State, 61. Instr. GEOG, Central Michigan, 57-61; prof. & chmn. dept, Slippery Rock State Col, 61-65; ASSOC. PROF, GEORGIA, 65- Nat. Sci. Found. res. grant, 67-70. U.S.A.A.F, 42-46, Sgt. Geog. Soc; Asn. Am. Geog; Asn. Latin Am. Studies; Nat. Coun. Geog. Ed. Study of migration of people in Mexico. Publ: Some comments on Mexico's population, J. Geog, 2/62; Changing urban functions of Tepic, Nayarit, Mexico, Rev. Geog. 6/66; Migration of people in Mexico, Prfnl. Geogr, 1/67. Address: Dept. of Geography, University of Georgia, Athens, Ga. 30601.

BALL, DR. JOSEPHINE, b. Chicago, Ill, 98. PSYCHOLOGY. A.B, Columbia, 22; Ph.D.(psychol), California, 29. Asst. psychol, Minnesota, 23-26; anat, California, 26-27, psychol, 27-29; asst. psychobiol, Phipps Psychiat. Clin, Hopkins, 29-42; res. assoc, col. home econ, Cornell, 42-43; asst. prof, Vassar Col, 43-45; psychologist, Inst. of Living, Conn, 45-47; sr. psychologist, Rockland State Hosp, 48-50; asst. dir, psychol. serv, State Dept. Ment. Hyg, N.Y, 54-55; res. psychologist, lobotomy res. proj, Vet. Admin. Hosp, Perry Point, Md, 55-59, clin. psychologist, 59-67; RETIRED. Asst. prof. Hartford Jr. Col, 45-47; state field supvr, Psychol. Intern Training Prog, N.Y, 50-55. Dipl, Am. Bd. Exam. Prfnl. Psychol. AAAS; fel. Psychol. Asn; fel. Gerontol. Soc. Physiological mechanism of sex behavior; psychosomatic relationships in the menstrual cycle of women; clinical psychology. Publ: Test for measuring sexual excitability in the female rat, Comp. Psychol. Monogr; co-auth, Sexual excitability as related to the menstrual cycle in the monkey, Am. J. Obstet. & Gynec. & Veterans Administration study of a prefrontal lobotomy, J. Clin. & Exp. Psychopath. Address: 2409 Golden Rain Rd. 2, Walnut Creek, Calif. 94529.

BALL, DR. KENNETH LEON, b. New York, N.Y, Aug. 11, 32; m. 57; c. 1. CLINICAL PSYCHOLOGY. A.B, Antioch Col, 54; Human Rel. Res. Found. fel. & Ph.D.(psychol), Washington, 59. Asst. personnel dir. psychol, Orchard Paper Co, 58-60, personnel dir, Calif, 60-62, MO, 62-64, V.PRES. INDUST. RELS, ORCHARD CORP. AM, 64- AAAS; Psychol. Asn. Interpersonal perceptions and communications in small groups; human factors in industrial management; organizational behavior. Address: 2023 Willow Leaf, Des Peres, Mo. 63131.

BALL, PROF. LLOYD DUANE, b. Hutchinson, Kans, Feb. 16, 28; m. 49; c. 4. CIVIL ENGINEERING. B.S, Colorado, 52, M.S, 57. Jr. engr. B, Boeing Airplane Co, 52-53, jr. engr. A, 53; instr. eng. graphics & mach. design, COLORADO, 53-57, asst. prof, 57-64, ASSOC. PROF. ENG. DESIGN & ECON. EVAL, 64-, designer, exp. sta, 55-56. Summers, design engr, Beech Aircraft Corp, 56, 57 & 61. U.S.N, 46-48. AAAS; Soc. Eng. Ed. Curriculum development in engineering design, graphics and economic evaluation; structural design and analysis; engineering graphics. Address: University of Colorado, Engineering Center, Boulder, Colo. 80302.

BALL, PROF. LYLE EDWIN, b. Mankato, Minn, Aug. 1, 25; m. 48; c. 3. LAW, INDUSTRIAL RELATIONS. B.S, Illinois State, 49; M.S, Illinois, 50, 66-67; summers, Wisconsin, 52-54, 56; J.D.(law), North Dakota, 56. Instr. mgt, North Dakota, 53-56; asst. prof. MGT. & LAW, Ferris State Col, 56-57; assoc. prof, ST. CLOUD STATE COL, 57-60, PROF, 60-, dean sch. bus, 62-66. Lawyer's Coop. Pub. Co. & Silverman awards, 56. U.S.N.A.F, 43-46; Intel.C, U.S.N.R, 62-66, Lt. Econ. Asn. Law and its control of economic and government activities; industrial relations, especially conflict, collective bargaining and wage determination. Publ: Contracts—fair trade laws—resale price maintenance agreements, N.Dak. Law Rev, 56; Governmental immunity from tort liability, Wis. Prin. J, 65; Credit card liability, Am. Bus. Law J, 67. Address: School of Business, St. Cloud State College, St. Cloud, Minn. 56301.

BALL, PROF. M(ARY) MARGARET, b. Los Angeles, Calif, Aug. 29, 09. POLITICAL SCIENCE. A.B. & A.M, Stanford, 31, Ph.D, 35; Carnegie & German-Am. Student Exchange fels, Cologne, 32-33, Dr. Jur, 33. Instr. polit. sci, Vassar Col, 35-36; Wellesley Col, 36-38, asst. prof, 38-44, assoc. prof, 44-47, prof, 47-63; dean woman's col. & assoc. dean arts & sci, DUKE, 63-68, PROF. POLIT. SCI. & DIR. GRAD. STUDIES POLIT. SCI, 68- Soc. Sci. Res. Coun. fel, 41-42; with U.S. Dept. State, 43-44, 46; Guggenheim fel, 49-50; NATO fel, 56. Trustee, Wellesley Col, 67-73. Polit. Sci. Asn; fel. Am. Acad. Arts & Sci. International politics and organization; comparative government; Inter-American organization. Publ: The problem of Inter-American organization; co-auth, International relations; NATO and the European union movement. Address: Dept. of Political Science, Duke University, Durham, N.C. 27706.

BALL, PROF. RACHEL S(TUTSMAN), b. Greencastle, Ind, Apr. 17, 94; m; c. 2. PSYCHOLOGY. A.B, Missouri, 19; fel, Bryn Mawr Col, 21-22; Ph.D. (psychol), Chicago, 28. Co-chmn. psychol. prog, Merrill-Palmer Sch, 22-36, chmn. res. cmt, 30-36; asst. prof. PSYCHOL, Goucher Col, 45-46; assoc. prof, ARIZONA STATE, 47-58, prof, 58-64, EMER. PROF, 64- U.S. Off. Ed. res. grant, Merrill-Palmer Inst.(Mich), 66-68. Res. consult, Merrill-Palmer Sch, 53- Hon. mem. AAAS; Psychol. Asn; Soc. Res. Child Develop; Ed. Res. Asn. Longitudinal research in psychology; mental development of infants and young children; personality development and evaluation methods; study of the thinking of four year old children. Publ: Auth, Mental measurement of preschool children, World Book Co, 31; Performance tests for preschool children, Genetics Psychol. Monogr, Vol. 1, No. 1; co-auth, Infant and preschool mental tests, Monogr, Soc. Res. Child Develop, 65. Address: 38 E. 15th St, Tempe, Ariz. 85281.

BALL, DR. RICHARD ALLEN, b. Newburg, W.Va, Feb. 28, 36; m. 59; c. 1. CRIMINOLOGY. B.S, West Virginia, 58, A.M, 60; Ph.D.(sociol), Ohio State, 65. Teacher, high sch, W.Va, 59-60; analyst, Adjutant Gen. Sch, U.S. Army, 60-61, chief dir, 61-62; ASST. PROF. SOCIOL, Indiana State, 65-66; WEST VIRGINIA, 66- U.S.A, 58-64, 1st Lt. Soc. Criminol; Sociol. Asn; Acad. Polit. & Soc. Sci. Criminology, delinquency and deviant behavior. Publ: An empirical exploration of neutralization theory, Criminologica, 8/66. Address: Dept. of Sociology, West Virginia University, Morgantown, W.Va. 26506.

BALL, DR. RICHARD EDWARD, b. Buffalo, N.Y, Aug. 22, 19; m. 43; c. 2. ECONOMICS. B.S.C, Notre Dame, 41, Ph.D, 55; M.A, Indiana, 42. Assoc. prof. finance & bus. admin, Notre Dame, 46; PROF. FINANCE & HEAD DEPT, CINCINNATI, 59- U.S.N.R, 42-45, Lt. Econ. Asn; Finance Asn. Political science; finance. Publ: Significance of the government corporation in administration theory. Address: Dept. of Finance, University of Cincinnati College of Business Administration, Cincinnati, Ohio 45221.

BALL, ROBERT M, b. New York, N.Y, Mar. 28, 14; m. 36; c. 2. ECONOMICS. A.B, Wesleyan, 35, M.A, 36. With bur. old-age ins, Soc. Security Admin, 39-46; asst. dir. cmt. ed. & soc. security, Am. Coun. Ed, 46-49; asst. dir, bur. old-age & survivors ins, div. prog. anal, SOC. SECURITY ADMIN, 49-52, dep. dir, 52-62, acting dir, 53-54, CMNR. SOC. SECURITY, 62- Staff dir, adv. coun. soc. security, U.S. Senate Finance Cmt, 47-48; mem. adv. cmt. pension studies, Nat. Bur. Econ. Res; Nat. Coun. Aging. Distinguished serv. award, Dept. Health, Ed. & Welfare, 54; Rockefeller pub. serv. award. 61. Pub. Welfare Asn.(v.pres, 60); Soc. Pub. Admin. Social Security; private pensions; public welfare. Publ: Social insurance and the right to assistance; Pensions in the United States; Social security today, Pub. Welfare J. Address: Social Security Administration, 330 Independence Ave. S.W, Washington, D.C. 20201.

BALL, DR. SAMUEL, b. Sydney, N.S.W, Jan. 9, 33; m. 54; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, Sydney, 56; M.Ed, 61; Ph.D.(ed. psychol), 64. Teacher, elem. sch, N.S.W, 52-59; lectr. ed, Newcastle teachers Col, Australia, 59-62; asst. prof. PSYCHOL. & ED, TEACHERS COL, COLUMBIA, 64-67, assoc. prof, 67-68, ADJ. ASSOC. PROF, 68-; RES. PSYCHOLOGIST, ED. TESTING SERV, 68- Consult, Proj. Headstart, 65-; Mind Proj, 65- Psychol. Asn; Nat. Coun. Measurement in Ed; Ed. Res. Asn. Motivation and learning in the classroom setting. Publ: Psychological foundations of education, McGraw, 68. Address: Dept. of Psychology, Teachers College, Columbia University, 525 W. 120th St, New York, N.Y. 10027.

BALL, DR. THOMAS STRAND, b. Tacoma, Wash, Aug. 18, 26; m. 54; c. 2. PSYCHOLOGY. B.S, Washington (Seattle), 49, M.S, 54; Ph.D, Purdue, 60. Psychol. asst, guid. clin, Mem. Hosp, Charleston, W.Va, 55-56; psychologist, Achievement Center for Children, Lafayette, Ind, 58-60; clin. psychologist, PAC. STATE HOSP, 60-65, CHIEF PSYCHOLOGIST, 65- Lectr, Claremont Grad. Sch, 65- Med.Serv.C, U.S.A, 50-52. Psychol. Asn. Perceptual development; utilization of perceptual phenomena in psychological measurement; operant conditioning. Publ: Auth, Perceptual concomitants of conceptual reorganization, J. Consult. Psychol, 64; co-auth, Complex phi thresholds of brain-damaged children, Perceptual & Motor Skills, 67. Address: 622 Albona Place, Pomona, Calif. 91766.

BALLABON, PROF. MAURICE B(ERNARD), b. London, Eng, Apr. 18, 30. ECONOMIC GEOGRAPHY. B.A, McGill, 50, fel, 50-51, M.A, 52, Ph.D. (geog), 55. Tech. officer, geog. br, Dept. Mines & Tech. Surv, Can, 51;

climat. asst, McGill, 51-52, 53-55; res. economist, Sask. Indust. Develop. Off, Can, 53; economist, J.T. Donald & Co, Ltd, 55-56; Tippetts-Abbett-McCarthy-Stratton, N.Y, 56-61; sr. economist, Marplan, 61; geogr, Tri-State Transportation Cmn, 61-63; ASST. PROF. ECON, CITY COL. NEW YORK, 63- Asn. Am. Geog; Am. Geog. Soc; Am. Econ. Asn. Economic geography. Address: Dept. of Economics & Finance, Baruch College of City University, New York, N.Y. 10010.

BALLACHEY, DR. E(GERTON) L(EOPOLD), Psychol, see 10th ed, Soc. & Behav. Vols.

BALLAINE, PROF. WESLEY C(HARLES), Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

BALLANTINE, DR. DUNCAN SMITH, b. Garden City, N.Y, Nov. 5, 12; m. 41; c. 1. ECONOMIC HISTORY & DEVELOPMENT. B.A, Amherst Col, 34; LL.D, 59; Ph.D.(hist), Harvard, 47. Assoc. prof. hist, Mass. Inst. Tech, 47-52; pres, Reed Col, 52-55; Robert Col, 56-61; res. assoc. ed. & econ. develop, center int. affairs, Harvard, 61; DIR. ED. DIV, INT. BANK FOR RECONSTRUCT. & DEVELOP, 63- Consult, Rockefeller Found, 61; Int. Bank Reconstruct. & Develop, 62. U.S.N, 42-46, Comdr. Education and human resources in the development of underdeveloped areas. Publ: U.S. Naval logistics in the Second World War. Address: 5306 Blackistone Rd, Washington, D.C. 20016.

BALLANTINE, PROF. JOHN WINTHROP, b. New York, N.Y, Oct. 1, 20; m. 48; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. B.A, Harvard, 42, M.A, 48, Ph.D.(econ), 55. Res. asst. indust. rels, Princeton, 48-49; mediator, N.J. State Mediation Bd, 49-55; dir. indust. rels, Baldwin-Ehret-Hill Inc, 55-62; PROF. ECON, STEVENS INST, 63- U.S.N.R, 42-46, Lt. Econ. Asn; Indust. Rels. Res. Asn. Industrial relations policy; management objectives. Publ: Co-auth, Transmitting information, Indust. Rels. Sect, Princeton, 49. Address: 82 Library Place, Princeton, N.J. 08540.

BALLANTYNE, DR. ARNOLD PAUL, b. Cherokee, Iowa, June 18, 29; m. 53; c. 2. ECONOMICS. B.A, Southern California, 52; M.A, Iowa, 54; Ph.D. (econ), Stanford, 65. Instr. ECON, Iowa, 53-54; asst. prof, U.S. Air Force Acad, 56-58, ASSOC. PROF, 61-67; COLORADO, 67- Consult, off. aerospace res, U.S. Air Force, 62-67; Rand Corp, 62-67; Regional Serv. Inst, Colo, 67- U.S.A.F, 54-67, Maj. Econ. Asn. Economic theory; economic development and statistics; public finance; international trade. Publ: U.S. balance of payments, defense spending, foreign aid and burden sharing, Stanford, 65; Missile payload systems, a cost analysis, Off. Aerospace Res, 64; Flexible money wages, Bentley Bus. & Econ. Rev, 10/66. Address: Dept. of Economics, University of Colorado, Colorado Springs, Colo. 80907.

BALLARD, PROF. RENE N(OBEL), b. Dugger, Ind, Apr. 30, 20; m. 42; c. 2. POLITICAL SCIENCE. B.S, Utah State, 42; M.S, Utah, 47, Ph.D, 50. Instr, KNOX COL. (ILL), 50-55, assoc. prof. POLIT. SCI, 55-60, PROF, 60- Vis. prof, Idaho State Col, 51. U.S.A.A.F, 42-45. Public administration; state and local government; constitutional law. Publ: The administrative theory of William Howard Taft; The primary convention system in Utah; The Salt Lake City metropolitan water district. Address: 722 Ruby St, Galesburg, Ill. 61309.

BALLENTINE, DEAN GEORGE A(NDREW), Econ, see 10th ed, Soc. & Behav. Vols.

BALLER, PROF. WARREN R(OBERT), b. Trenton, Nebr, June 19, 00; m. 41; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, York Col, 23; A.M, Nebraska, 27, Ph.D.(ed. psychol), 35; LL.D, George Williams Col, 62. Prin, high schs, Nebr, 23-27; prof. psychol, York Col, 27-33; instr, Nebraska, 35-36, asst. prof, 36-38, assoc. prof, 38-43, prof, 43-66, asst. dean jr. div, 46-48, acting dean, 48-49, dean, 49-50, chmn. dept. ed. psychol, 61-66; PROF. ED. PSYCHOL, CALIFORNIA WESTERN, 67- Am. Coun. Ed. fel, Chicago, 40-41; vis. prof, Texas, 49; California, Los Angeles, 55-57. Fel. Psychol. Asn; Ed. Res. Asn. Economic adjustment of mentally deficient; relation of ability to continuance in college; improvement of evaluation in education; developmental psychology. Publ: Auth, Readings in the psychology of human growth and development, 62 & co-auth, Psychology of human growth and development, 62, 2nd ed, 68, Holt. Address: Dept. of Educational Psychology, California Western University, 3902 Lomaland Dr, San Diego, Calif. 92106.

BALLERT, DR. ALBERT G(EORGE), b. Toledo, Ohio, Dec. 26, 14; m. 41; c. 3. GEOGRAPHY, ECONOMICS. B.Ed, Toledo, 38; M.S, Syracuse, 40; Sheldon fel, Chicago, 40-42, Ph.D.(geog), 47. Instr. geog, Chicago, 42-45; geogr. & mgr. transportation & world trade depts, City Chamber of Commerce, Toledo, Ohio, 45-47; asst. prof. geog, California, Los Angeles, 47-48; chief res, State Dept. Econ. Develop, Mich, 48-50; sr. res. planner, Chicago Plan Cmn, 50-53; analyst, Ford Div, Ford Motor Co, 53-55; supvr. mkt. anal. dept, Chrysler Div, Chrysler Corp, 55-56; DIR. RES, GREAT LAKES CMN, 56- Asn. Am. Geog; Regional Sci. Asn; Soc. Planning Off. Physical and economical aspects of Great Lakes region; seaway and Great Lakes commerce; urban research; water resources. Address: 11405 Cranston Ave, Livonia, Mich. 48150.

BALLESTEROS, DR. PAULINO A, b. Angadanan, Philippines; nat. INTERNATIONAL ECONOMICS. B.S, California, 49; M.B.A, Chicago, 50; Ph.D. (econ), Illinois, 59. Asst. econ, Illinois, 52-53; instr. econ. & statist, Cath. Univ. P.R, 54-56; asst. prof. ECON, St. Ambrose Col, 56-59; Northeast. State Col, 59-62; assoc. prof, ALBRIGHT COL, 62-67, PROF, 67- Ford Found. faculty res. seminar fel, 61-62; Gen. Elec. fel, 64. Econ. Asn. Entrepreneurship; statistics, mathematical economics; economic development of underdeveloped countries; economic theory. Address: Dept. of Economics, Albright College, Reading, Pa. 19604.

BALLIF, DR. BONNIE LAURIS, b. Provo, Utah, Feb. 15, 40. EDUCATIONAL PSYCHOLOGY. B.S, Brigham Young, 62, Nat. Defense Ed. Act. fel, 63-66, Ph.D.(ed. psychol), 66. Teacher, elem. sch, Utah, 62-63; ASST. PROF. ED. PSYCHOL. & ASST. RESEARCHER, ED. RES. & DEVELOP. CENTER, UNIV. HAWAII, 66- Consult, Head Start, Off. Econ. Opportunity, 65-; State Dept. Ed, Hawaii, 66-; Hawaii Training Prog, Peace Corps, 67- Psychol. Asn; Ed. Res. Asn. Theory and research in human motivation and learning. Address: 1519 Nehoa St, Apt. 505, Honolulu, Hawaii 96822.

BALLIN, DR.MARIAN R(UTH), b. Brooklyn, N.Y, Nov. 10, 12. PSYCHOLOGY. B.A, Cornell, 31; M.A, Stanford, 38, Buckel fel, 38-40, Ph.D.(psychol), 54. Asst. dept. psychol, Stanford, 40; statistician, State Dept. Instns, Calif, 40-43; registrn. officer, Vet. Admin, 45-46; psychologist, Vet. Counseling Center, 46-51; instr. & counsr, Adult Counseling Serv, 49-55; psychometrist, elem. sch. dist, 55; counseling psychologist, Vet. Admin, 55-61; psychologist, Placer County Schs, Auburn, 61-65; DIR. PSYCHOLOGIST SERV, GRASS VALLEY SCH. DIST, 65- Consult. psychologist, ESEA proj, Roseville City Sch. Dist, 65-66; guid. consult, Off. Econ. Opportunity reading proj, Auburn Union Elem. Sch. Dist, 66. Dipl, Am. Bd. Exam. Prfnl. Psychol, 55. U.S.N.R, 43-45. Psychol. Asn; fel. Int. Coun. Psychol. The gifted; learning problems. Publ: Evaluation of adult group guidance; Counseling of adults, a growing community need, Adult Leadership; co-auth, Group guidance for adults, an evaluation, Occupations. Address: Route 1, Box 2205, Applegate, Calif. 95703.

BALLINGER, DR. ROY A(RTHUR), b. Spring Valley, Minn, Nov. 13, 01; m. 25. AGRICULTURAL ECONOMICS. B.S, Minnesota, 24, M.A, 25, Ph.D, 31. Assoc. prof, Va. Polytech, 27-31; prof, Okla. Agr. & Mech. Col, 32-35; assoc. prof, La. State, 36-43; econ. statistician, U.S. DEPT. AGR, 43-46; secy, U.S. Cuban Sugar Coun, 46-60; AGR. ECONOMIST, 60- Prof, La. State, 68- Agr. Econ. Asn; Econ. Asn. Marketing. Address: 4220 N. Second Rd, Arlington, Va. 22203.

BALLIS, PROF. WILLIAM B(ELCHER), b. Portland, Ore, June 8, 08; m. 33; c. 2. INTERNATIONAL RELATIONS. A.B, Stanford, 29; fel, Chicago, 31-32, Ph.D, 36; Columbia, 35; California, 36. Instr. polit. sci, Chicago, 32-37; Gen. Ed. Bd. fel. Russian studies, California, 37-38, Rockefeller fel, 38-39; asst. prof. polit. sci, Ohio State, 39-46; from chief polit. sect. to chief east. European br, div. res. for Europe, U.S. Dept. State, 46-48; prof. polit. sci, Washington (Seattle), 48-57, acting dir. inst. int. affairs, 54-55, dir. human rels, area res. proj. on Mongolia, 55-56; PROF. POLIT. SCI, MICHIGAN, 57-, chmn. Center Russian Studies, 57-61, dir, 61-65. Dir. studies, Nat. War Col, 49; lectr, Naval, Army & Air War Cols; adv, Inst. Study U.S.S.R, Munich, Germany, 53-54, summer, 61, hon. fel. & mem. bd, 65-; inter-univ. summer travel grant, U.S.S.R, 57; Nimitz prof, Naval War Col, 64-65. Del, World Cong. Orientalists, Moscow, 60. Russian analyst, Nat. Defense & War Agencies, 41-42. Asst. naval attaché, Moscow, 45-46, U.S.N.R, 42-46, Comdr. Asn. Adv. Slavic Studies; Polit. Sci. Asn. Russian and Far Eastern affairs; international law; Soviet policy toward developing states; Soviet relations with the Middle and Far East. Publ: Recent Soviet relations with India, Osteuropa, 64; A decade of Soviet-Japanese relations, Studies on Soviet Union, 64; Soviet Turkish relations, Bull. Inst. Study U.S.S.R, 65. Address: Dept. of Political Science, University of Michigan, Ann Arbor, Mich. 48104.

BALLOCH, DR. JOHN (CARROLL), b. Portsmouth, N.H, Apr. 7, 22; m. 46; c. 2. PSYCHOLOGY. B.S. & A.M, Boston, 45; Ph.D.(psychol), Mich. State, 51; Nat. War Col, 63-64. Voc. adv, Vet. Admin, 45-47; res. psychologist, Children's Bur, 50-52; opers. res. off, Hopkins, 53-59, dir, opers. anal. off, 26th Air Div, 59-63; OPERS. ANALYST, TACTICAL AIR WARFARE CENTER, EGLIN AIR FORCE BASE, 64- Psychol. Asn; Opers. Res. Soc. Operations research; military tactics; group and disaster behavior. Publ: Effects of degree of shading contrast in ink blots on verbal response, J. Exp. Psychol; Communist training for insurgency, Nat. War Col, 64; co-auth, Project Skoshi Tiger, Tactical Air Warfare Center, 66. Address: 7 Waynel Circle Ft. Walton Beach, Fla. 32548.

BALLOU, DR. RONALD H(ERMAN), b. Columbus, Ohio, Aug. 20, 37; m. 60; c. 1. BUSINESS ADMINISTRATION. B.M.E, Ohio State, 60, M.B.A, 63, Ph.D.(bus. logistics), 65. ASST. PROF. QUANT. METHODS, GRAD. SCH. BUS. ADMIN, NORTHWESTERN, 65- Transportation Res. Forum. Management of physical distribution systems; quantitative methodology as applied to optimizing the design and operation of such systems. Publ: Pallet layout for optimum space utilization, Transportation & Distribution Mgt, 1-2/64; co-auth, Logistical planning in interorganization systems, Proc. Acad. Mgt, 66; auth, Improving the layout of merchandise in warehouses, J. Mkt, 7/67. Address: Dept. of Quantitative Methods, Graduate School of Business Administration, Northwestern University, 339 E. Chicago Ave, Chicago, Ill. 60611.

BALLWEG, DR. JOHN A, b. Spalding, Nebr, Nov. 27, 26; m. 49; c. 2. SOCIOLOGY. B.G.E, Omaha, 60, M.A, 62; Ph.D.(sociol), Nebraska, 67. Instr. SOCIOL, Col. St. Mary (Nebr), 62-64; from instr. to ASST. PROF, Omaha, 64-67; VA. POLYTECH, 67- U.S.A, 45-46, 50-54. Sociol. Asn; Anthrop. Asn. Social participation; sociology of work. Publ: Co-auth, Intra-plant mobility of Negro & White workers, Am. J. Sociol, 65; auth, Resolution of conjugal role adjustment after retirement, J. Marriage & Family, 67; Extentions of meaning and use for kinship terms, Am. Anthropologist, 68. Address: Dept. of Sociology, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

BALMA, DR. MICHAEL JAMES, b. Joliet, Ill, Sept. 9, 30; m. 51; c. 3. INDUSTRIAL PSYCHOLOGY, LABOR ECONOMICS. B.S, Purdue, 51, M.S, 52, fel, 52-54, Ph.D, 54; Auburn Res. Found. fel, Auburn, 52. Instr. psychol. & supvr, Calumet Housing Surv, res. found, Purdue, 51-52; training specialist, indust. rels, flight propulsion div, Gen. Elec. Co, 54-55, supvr. mgt. develop, 55-56, specialist union rels, 56-57, mgr. salaried rels, 57-59, personnel practices, 59-63; dir. personnel develop, ABBOTT LABS, 63-65, V.PRES. PERSONNEL, 66- Assoc, Ala. Polytech, 51-52; instr, Salmon P. Chase Col, 55-57. Pres, Lake Co. Urban League; dir, Waukegan-N.Chicago Chamber Commerce. Psychol. Asn; Soc. Personnel Admin. Industrial and labor relations, especially employee selection and motivation. Publ: Principles of personnel testing, McGraw; Impact of rapid industrialization on the people of the South, Auburn Res. Found. Report; Role of the foreman in modern industry, Personnel Psychol. Address: 112 W. Witchwood Lane, Lake Bluff, Ill. 60044.

BALMER, PROF. DONALD G(ORDON), b. Portland, Ore, Oct. 13, 26; m. 48; c. 4. POLITICAL SCIENCE. B.A, Washington (Seattle), 47, M.A, Danforth grant, 55-56, Ph.D, 56. From asst. prof. to assoc. prof. POLIT. SCI, LEWIS & CLARK COL, 51-64, PROF, 64- Vis. prof, Washington (Seattle), 63, 65; faculty fel, Nat. Center Ed. Polit, 65-66. Res. dir, Ore. Legis Interim. Cmt. Migratory Labor, 57-59; consult, Kirschner Assocs, 66-67. Polit. Sci. Asn; Soc. Pub. Admin. State politics; American national politics; political parties. Publ: Financing state senate campaigns, Citizens Res. Found, 66; Politics of power, In: Cases in American government, Prentice-Hall, 66. Address: Dept. of Political Science, Lewis & Clark College, Portland, Ore. 97219.

BALOGH, PROF. JOSEPH KENNETH, b. Donora, Pa, July 8, 14; m. 47; c. 3. SOCIOLOGY. B.S, Pa. State Col, 37; Hungarian fel, Pittsburgh, 38-39, M.Litt, 39, Ph.D, 45. Mem. faculty, Hillsdale Col, 45-46; fel, Columbia, 46; mem. faculty, St. Lawrence, 46-48; asst. prof. SOCIOL, BOWLING GREEN STATE, 49-52, assoc. prof, 52-59, PROF, 59-, CHMN. DEPT, 65- Sociol. Asn; Acad. Polit. & Soc. Sci. Social theory; ethnic minorities; criminology and penology. Publ: Co-auth, Patterns of interaction among chronic female schizophrenics, J. Health & Human Behavior, summer 62; auth, Conjugal visitations in prisons: a sociological perspective, 9/64 & co-auth, Capital punishment: some reflections, 12/66, Fed. Probation. Address: Dept. of Sociology, Bowling Green State University, Bowling Green, Ohio 43402.

BALSAM, PROF. L(OUIS) G(AY), Sociol, see 10th ed, Soc. & Behav. Vols.

BALSLEY, PROF. HOWARD L(LOYD), b. Chicago, Ill, Dec. 3, 13; m. 47. ECONOMICS. A.B, Indiana, 46, A.M, 47, Ph.D, 50; Hopkins, 47-48; Chicago, 48. Asst. prof. econ, Utah, 49-50; assoc. prof. econ. & dir. sch. bus, Russel Sage Col, 50-52; assoc. prof. bus. & econ, Washington & Lee, 52-54; PROF. bus. statist, La. Polytech, 54-65, head dept. bus. & econ. res, 55-65; MKT, TEX. TECH. COL, 65- U.S.A.A.F, 43-46. Econ. Asn; Finance Asn; Statist. Asn. Economic theory, statistics and history. Publ: Economic doctrines, Vols. I and II; co-auth, Principles of economics; auth, Introduction to statistical method, Littlefield, 64. Address: Dept. of Marketing, Texas Technological College, Lubbock, Tex. 79409.

BALTHAZAR, DR. EARL E(DWARD), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BALTZ, DR. HOWARD BURL, b. St. Louis, Mo, July 27, 30; m. 67. APPLIED STATISTICS, ECONOMICS. B.B.A, Baylor, 56, M.S, 58; Ph.D.(econ, statist), Okla. State, 64. Instr. statist. & staff mem. bur. res, Baylor, 57-59; teaching asst. econ. & statist, Okla. State, 59-62; asst. prof, Midwestern, 62-64; STATIST, Texas, 64-68; ASSOC. PROF, MISSOURI, ST. LOUIS, 68- U.S.A.F, 51-55, Res, Maj. Statist. Asn. Economic implications of the out-of-state tuition for college students. Publ: Index of Waco retail food prices, 58 & Is economics conservative or liberal? 64, Baylor Univ. Address: School of Business Administration, University of Missouri, St. Louis, Mo. 63121.

BALTZ, DR. RICHARD B(RUCE), b. St. Louis, Mo, July 27, 30; m. 58. ECONOMICS, FINANCE. B.B.A, Baylor, 55, M.S, 57; Ph.D.(econ), Arkansas, 62. Clerk, Atlantic & Pac. Tea Co, 46-51; investment consult. & salesman, Clisbee & Co, Inc, Waco, Tex, 55-58; instr. econ, Baylor, 57-58; Arkansas, 58-63; St. Louis, 63-65; Northeast La. State Col, 65-66; CHMN. DEPT. ECON. & BUS. ADMIN, MILLSAPS COL, 66- U.S.A.F, 51-55, Res, 55-, Maj. Econ. Asn. Determination of optimum business size by cost-output analysis. Publ: Fundamentals for business analysis, Prentice-Hall, 69; Incentives and opportunities for independent telephone companies to be efficient, Pub. Utilities Fortnightly, 9/63; The placement of a statistical cost function, Miss. Valley J. Bus. & Econ, 66. Address: Dept. of Economics & Business Administration, Millsaps College, Jackson, Miss. 39210.

BALTZELL, PROF. E(DWARD) DIGBY, b. Philadelphia, Pa, Nov. 14, 15; m. 43; c. 2. SOCIOLOGY. B.S, Pennsylvania, 40; Ph.D.(sociol), Columbia, 52. Instr. SOCIOL, PENNSYLVANIA, 48-55, asst. prof, 55-58, assoc. prof, 58-65, PROF, 65- U.S.N.R, 42-45, Lt.(jg). Sociol. Asn; Am. Studies Asn. Social organization and psychology; family. Publ: Philadelphia gentlemen; Protestant establishment, Random, 64; Elite and upper class indexes in metropolitan America, In: Class Status and power. Address: 1724 Delancey Place, Philadelphia, Pa. 19103.

BAMBERGER, DR. JOAN, b. New York, N.Y, Feb. 27, 34; div. SOCIAL ANTHROPOLOGY. B.A, Smith Col, 56; M.A, Radcliffe Col, 59; Ph.D.(anthrop), Harvard, 67. ASST. PROF. ANTHROP, BRANDEIS, 67- Anthrop. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. Social anthropology of Brazilian Indians. Publ: Ethnobotanical notes on Simaba in Central Brazil, Botanical Leaflets, Harvard, 65. Address: Dept. of Anthropology, Brandeis University, Waltham, Mass. 02154.

BAMBRICK, JAMES JOSEPH, b. New York, N.Y, Apr. 26, 17; m. 48; c. 4. INDUSTRIAL RELATIONS. B.S, N.Y. Univ, 40, M.B.A, 42; Pennsylvania, 43-44; B.S, U.S. Merchant Marine Acad, 46. Clerk, Rice & Maguire Attorneys, 35-36; statistician & negotiator, tel, printing & aircraft unions, 36-40; dir. mgt, James J. Bambrick & Assocs, 40-42; personnel dir, Allegheny Airlines, Inc, 42-44; ed. LABOR RELS, Prentice-Hall, Inc, 46-47; mgr, Nat. Indust. Conf. Bd, 47-58; ASST. MGR, STANDARD OIL CO, 58- Instr. N.Y. Univ, 46-53; lectr, Cleveland State, 64-; John Carroll, 67- Mem. ed. adv. bd, Adv. Mgt, 49-61; bus. res. adv. coun, Cmt. Wages & Indust. Rels, U.S. Bur. Labor Statist, 61-62. U.S. Merchant Marines, 44-46. Econ. Asn; Statist. Asn; fel. Soc. Adv. Mgt; Arbit. Asn. Labor relations. Publ: Handbook of union government, structure and procedures; Preparing for collective bargaining; Foreman & unionism. Address: 2704 Berkshire Rd, Cleveland, Ohio 44106.

BAME, DR. JACK J(OSEPH), Int. Econ, see 10th ed, Soc. & Behav. Vols.

BAMFORD, DR. H(AROLD) E(DWARD), JR, b. San Francisco, Calif, Aug. 12, 27; m. 50; c. 2. PSYCHOLOGY. A.B, California, 49, M.A, 51, Ph.D.(psychol), 53. Statistician, Naval Air Sta, Calif, 49; res. psychologist, Human Resources Res. Center, 50; teaching asst, California, 51-53; exp. & physiol. psychologist, Air Force Personnel & Training Res. Center, 53-54; res. scientist, Am. Inst. Res, 54-55; res. assoc, Illinois, 55-57; sr. assoc. psychol, Ritchie & Assocs, Inc, 57-59; sr. group engr, Boeing Co, 59-61; supvr. requirements & tests, Int. Elec. Corp, 61-62; human factors scientist, Syst. Develop. Corp, 62-63, sr. human factors scientist, 63-66; PROG. DIR. INFO. SYSTS, NAT. SCI. FOUND, 66- U.S.A, 45-46. Fel. AAAS; fel. Psychol. Asn; Human Factors Soc; Opers. Res. Soc. Man-machine relations: psychological measurements; philosophy of science; information system development. Publ: Co-auth, Evaluation of instrument displays: a point of view, Am. Psychologist, 58; auth, Human factors in man-machine systems, Human Factors, 59; Specification of required crew performance, Perceptual & Motor Skills, 61. Address: Information Systems Program, National Science Foundation, Washington, D.C. 20550.

BANAS, DR. PAUL ANTHONY, b. Norwich, Conn, June 12, 29; m. 63; c. 2. INDUSTRIAL PSYCHOLOGY. B.A, Connecticut, 51; Ph.D.(psychol), Minnesota, 64. Res. psychologist, U.S. Army Personnel Res. Off, 63-64; res. scientist, Human Sci. Res, Inc, 64-66; consult. personnel res, CORP, HQ, FORD MOTOR CO, 66-67, SUPVR. PERSONNEL RES, 67- Adj. prof, Detroit, 67- U.S.N, 52-56, Lt.(jg). AAAS; Psychol. Asn. Application of psychology to industry; selection; criterion development; leadership; organizational development; motivation; training evaluation. Publ: Co-auth, Prediction of key punch operator performance, Personnel Admin, 61, Differential predictability: selection of handicapped and non-handicapped, Personnel & Guid. J, 66 & A study of local leadership in community economic planning, Econ. & Develop. Admin, 66. Address: Personnel Research, Room 431, COB, Ford Motor Co, American Rd, Dearborn, Mich. 48121.

BANAY, DR. RALPH S(TEVEN), b. Hungary, July 26, 96; U.S. citizen. PSYCHIATRY. M.D, Royal Hungarian Univ, 20; Munich, Vienna & Amsterdam, 25-26. Dir. clin. psychiat, Boston State Hosp, 39-40; chief dept. psychiat, dept. correction, Sing Sing Prison, 40-43; res. psychiatrist, head injury proj, Columbia, 43, DIR. res. soc. deviations, dept. neurol, 43-49; GREENMONT-ON-HUDSON, OSSINING, 48-; YOUTH INST, INC, 54- Lectr, sch. ed, N.Y. Univ, 42-43; adj. prof, Manhattan Col. Med. dir, Yale Plan Clins, 43-44; Civic Center Clin, 54-; chmn. cmt. res. & ed, Nat. Private Psychiat. Hosps. Ed, Corrective Psychiat, 54- & J. Social Ther. Dipl, Am. Bd. Psychiat. & Neurol. Consult. psychiatrist, Armed Forces Induction Center, N.Y, 42-45. AAAS; fel. Psychiat. Asn; Acad. Forensic Sci; fel. Am. Med. Asn; Med. Correctional Asn.(pres, 50-); fel. N.Y. Acad. Sci. Forensic psychiatry and research. Publ: Youth in despair, McCann, 48; We call them criminals, Appleton, 57. Address: 927 Fifth Ave, New York, N.Y. 10021.

BANCROFT, PROF. EVERETT CLAIR, b. Aylesford, N.S, Can, Apr. 26, 94; nat; m. 22; c. 2. ECONOMICS. B.A, Acadia, 14; A.B, Yale, 15, Cuyler fel, Ph.D, 28. Asst. prof, Maine, 19-20; instr. Brown, 20-24; assoc. prof. ECON, COLGATE, 24-36, prof, 36-61, EMER. PROF, 61- Lectr, Am. Inst. Banking, N.Y. 31-37; Case Inst. fel, 52. Econ. Asn. Finances of the state of Connecticut from 1861 to 1927; money and banking; public finance; economic fluctuations; introductory economics. Publ: Co-auth, Textiles: a dynamic industry. Address: Dept. of Economics, Colgate University, Hamilton, N.Y. 13346.

BANCROFT, DR. THEODORE ALFONSO, Statist, see 11th ed, Phys. & Biol. Vols.

BANDA, DR. A(RPAD) FREDERIC, b. New York, N.Y, June 16, 28. FINANCE, ECONOMICS. B.S, City Col. New York, 50; M.B.A, N.Y. Univ, 56 & Ph.D. (finance), 64. Admin. asst. registr. off, City Col. New York, 54-59; instr. econ, Milwaukee-Downer Col, 59-61; Upsala Col, 61-62; asst. prof. econ. & finance, Hartford, 63-66, assoc. prof, 66-68, chmn. dept, 66-67; ASSOC. PROF. FINANCE, AKRON, 68- Finance Asn; Financial Analysts Fedn; Econ. Asn. Regulated industries, their sources and uses of funds; cost of capital and its implications on the financial manager; consumer and investor. Publ: Analysis of electric utility financing, 1946-1965, Pub. Utilities Fortnightly, 8/67. Address: University of Akron College of Business Administration, Akron, Ohio 44304.

BANDEEN, DR. R(OBERT) A(NGUS), b. Rodney, Ont, Can, Oct. 29, 30; m. 58; c. 4. ECONOMETRICS. B.A, Western Ontario, 52; Rockefeller Found. fels, Duke, 53-55, Ph.D, 59. Asst. economist, CANADIAN NAT. RWY, 55-56, res. statistician, 56-58; chief costs & statist, 58-60, develop. planning, 60-66, DIR. CORP. PLANNING, 66- Econometr. Soc; Econ. Asn; Statist. Asn; Opers. Res. Soc. Economic and statistical research, especially in the field of transportation. Publ: Automobile consumption, 1940-1950, Econometrica. Address: Research Dept, Canadian National Railways, P.O. Box 8100, Montreal, 3, Que, Can.

BANDERA, DR. VLADIMIR N(ICHOLAS), b. Stryj, Ukraine, Dec. 11, 32; nat; m. 56; c. 2. INTERNATIONAL ECONOMICS. B.A, Connecticut, 54; Ford Found. fel. & Ph.D, California, 60. Asst. labor econ, bur. indust. rels, California, 59; asst. prof. INT. ECON, BOSTON COL, 60-64, ASSOC. PROF, 64- Fulbright prof, Italy, 66-67. U.S.A, 54-56. Econ. Asn; Asn. Adv. Slavic Studies. Jones award, West. Econ. Asn, 59. European and Soviet economics; theory and history of international capital movements; economic theory; U.S. foreign investments; problems of servicing international loans; the period of New Economic Policy, especially in Ukraine. Publ: Foreign capital as an instrument of national economic policy, M. Nijhoff, 64 & 67; Tied loans and international payment problems, Oxford Econ. Papers, 7/65; Free trade argument and the theory of second best, Kyklos, fall 67. Address: Dept. of Economics, Boston College, Chestnut Hill, Mass. 02167.

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BARBE, DR. WALTER B(URKE), b. Miami, Fla, Oct. 30, 26. EDUCATIONAL PSYCHOLOGY. B.S, Northwestern, 49, M.A, 50, fel, 51-52, Ph.D.(ed. psychol), 53. Instr. psychol. & dir. reading clin, Baylor, 50-51; asst. prof. elem. ed, Kent State, 52; prof. ed. & dir. reading clin, Chattanooga, 53-60; prof. spec. ed, & head dept, Kent State, 60-64; ED, HIGHLIGHTS FOR CHILDREN, INC, 64- U.S.A, 44-46. Fel. Psychol. Asn; Nat. Asn. Gifted Children (pres, 58-60); Asn. for the Gifted (pres, 67-68). Publ: Educator's guide to personalized reading instruction; psychology and education of the gifted, 65 & co-auth, Educating children with learning disabilities, 67, Appleton. Address: Highlights for Children, 803 Church St, Honesdale, Pa. 18431.

BARBEAU, PROF. ARTHUR E, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARBEAU, DR. MARIUS, b. Beauce Co, Que, Mar. 5, 83; m. 14; c. 2. ANTHROPOLOGY. B.A, Laval, 03; B.Sc, Oxford, 10; hon. D.Litt, Montreal, 40, Laval, 52, Oxford, 53. Anthropologist, NAT. MUS. CAN, 11-48, CONSULT, 48- Prof, Laval, 45-55, emer. prof, 55-; lectr, Montreal. Co-ed, J. Am. Folklore, 16- Gold medal, French Can. Asn. Adv. Sci, 48; Pierce gold medal, Royal Soc. Can, 50. Indian captivities; French-Canadian folk tales, songs and art; Siberian migrations into native America. Publ: Totem poles; Huron-Wyanot mythology; Indian days on the western prairies. Address: 260 MacLarn, Ottawa, Ont, Can.

BARBER, DR. BENJAMIN R, b. New York, N.Y, Aug. 2, 39; m. 62; c. 1. POLITICAL SCIENCE. B.A, Grinnell Col, 60; M.A, Harvard, 63, Ph.D.(govt), 66. Lectr. POLIT. SCI, Albert Schweitzer Col, Switz, 63-65; ASST. PROF, PENNSYLVANIA, 66- Vis. prof, Haverford Col, 67. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Vocabulary and theoretical foundations of comparative political analysis; Swiss political system; concept of freedom. Publ: A critique of totalitarianism, (in press). Address: Dept. of Political Science, University of Pennsylvania, Philadelphia, Pa. 19104.

BARBER, PROF. BERNARD, b. Boston, Mass, Jan. 29, 18. SOCIOLOGY. A.B, Harvard, 39, A.M, 42, fel, 46-48, Ph.D, 49. Tutor, Harvard, 46-48; instr. SOCIOL, Smith Col, 48-49, asst. prof, 49-52; BARNARD COL, COLUMBIA, 52-55, assoc. prof, 55-61, PROF, 61-, CHMN. DEPT, 62-65, 68- Mem. drug res. bd, Nat. Acad. Sci, 66- U.S.N.R, 42-46, Lt. Sociological theory; sociology of science. Publ: Science and the social order; Social stratification; Drugs & society, Russell Sage, 67. Address: Dept. of Sociology, Barnard College, Columbia University, New York, N.Y. 10522.

BARBER, DR. CHARLES T, b. Washington, D.C, Aug. 30, 41. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, W.Va. Wesleyan Col, 63; M.A, American Univ, 65, Ph.D.(int. rels), 67. ASST. PROF. POLIT. SCI, EAST TENN. STATE, 67- Polit. Sci. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci. Postal policy, including censorship and propaganda, both national and international. Publ: Restricted intergovernmental postal unions: agents of regional functionalism, Union Postale, 68. Address: Dept. of Political Science, Box 2557, East Tennessee State University, Johnson City, Tenn. 37601.

BARBER, DR. CLARENCE L(YLE), b. Wolseley, Sask, May 5, 17. ECONOMICS. B.A, Saskatchewan, 39; A.M, Clark, 41; Ph.D, Minnesota, 52. Statistician, Dom. of Can. Bur. Statist, 45-48; asst. prof, McMaster, 48-49; assoc. prof. ECON, MANITOBA, 49-56, PROF, 56-, HEAD DEPT, 63- Cmnr, Royal Cmn. Farm Mach, 66- Can. Econ. Asn.(v.pres, 67-). Economic, monetary and business cycle theory; inventories and the business cycle. Publ: Theory of fiscal policy applied to a province, Ont. Govt, 67; Canadian tariff policy, Can. J. Econ; Population growth and the demand for capital, Am. Econ. Rev. Address: Dept. of Economics, University of Manitoba, Winnipeg, Man, Can.

BARBER, PROF. HOLLIS W(ILLIAM), b. Cincinnati, Ohio, Apr. 2, 10; m. 37; c. 2. POLITICAL SCIENCE. A.B, Oberlin Col, 30; A.M, American Univ, 31; German-Am. Student Exchange fel, Berlin, 32-33; Ph.D, Wisconsin, 35. Instr. POLIT. SCI, Alabama, 35-36; Cincinnati, 36-39; asst. prof, Tulane, 39-42, assoc. prof, 45-47; ILLINOIS, CHICAGO, 47-53, PROF, 53-, HEAD DEPT, 64-, div. soc. sci, 62-64. Lectr, univ. col, Northwestern, 47-52; researcher & ed, Coun. For. Rel, 56-57. U.S.N.R, 42-45, Lt. Polit. Sci. Asn. American foreign policy; international relations. Publ: Foreign policies of the United States; The United States in World affairs, 1955. Address: Dept. of Political Science, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

BARBER, JACOB L(ESTER), JR, b. Lemoyne, Pa, Aug. 19, 25; m. 48; c. 4. ENGINEERING PSYCHOLOGY. Sc.B, Dickinson, 46; M.A, Lehigh, 48; Hop-

kins, 48-49; U.S. Army War Col, 66-67. Asst. eng. psychol, inst. coop. res, Hopkins, 48-50; res. psychologist, camouflage br, eng. res. & develop. labs, U.S. DEPT. ARMY, 50-59, coordinator human factors eng. & chief human factors br, 59-61, RES. PSYCHOLOGIST, BEHAV. SCI. DIV, OFF. CHIEF RES. & DEVELOP, 61- Meritorious civilian serv. award, U.S. Army, 64. Psychol. Asn; Human Factors Soc. Analysis of man-machine systems; display of information; systems research and field experimentation; research management. Publ: Color problems in camouflage, Tech. Data Digest; co-auth, Effect of scale numbering on scale-reading accuracy and speed, J. Exp. Psychol. Address: 4000 Pinebrook Rd, Alexandria, Va. 22310.

BARBER, PROF. JAMES DAVID, b. Charleston, W.Va, July 31, 30; m. 51; c. 2. POLITICAL SCIENCE. B.A, Chicago, 50, M.A, 55; Ph.D.(polit. sci), Yale, 60. Res. staff indust. rels, Chicago, 51-53, 55; asst. prof. POLIT. SCI, Stetson, 55-57; from instr. to PROF, YALE, 60-, DIR. OFF. ADV. POLIT. STUDIES, 67- Nat. Sci. Found. fel, 61-63; guest scholar, Brookings Inst, 64-65; dir, Harvard-Yale-Columbia intensive summer studies prog, 66-67; fel, Center Adv. Study Behav. Sci, 68-69. Mem, Working Group on U.S. Govt, Cmn. on Year 2000. U.S.A, 53-55, Sgt. Polit. Sci. Asn. Political elites, particularly psychological dimensions of political leadership; legislators and presidents of the United States. Publ: The lawmakers: recruitment and adaptation to legislative life, Yale, 65; Power in committees: an experiment in the governmental process, Rand McNally, 66; co-auth, An introduction to political analysis, Prentice-Hall, 67. Address: Dept. of Political Science, Yale University, New Haven, Conn. 06520.

BARBER, DR. JOSEPH E, b. Corning, N.Y, Mar. 30, 02; m. 30. PSYCHOLOGY. B.S, Syracuse, 26, M.S, 33; Harvard, 33; Ed.D, Buffalo, 48. Instr, East Aurora High Sch, 26-29, dir. guid, 29-32, prin, 32-46; chief advisement & guid, Vet. Admin, 46-52; head sch. & col. rels, U.S. Bur. Naval Personnel, 52-61; WASH. REP, CHRONICLE GUID. PUB, INC, 61- Lectr, Syracuse, 48-52; George Washington, 52-61. Ed-voc. consult, bur. appeals, Dept. Health, Ed. & Welfare, 62- Mem, White House Conf. Child Welfare & Youth, 60; President's Cmt. Handicapped, 66- AAAS; Personnel & Guid. Asn; Voc. Asn. Psychological guidance and counseling; teacher procurement from the Armed Forces discharged personnel. Publ: Evaluation of guidance; ed, Washington counselor, 62 & Trends in education, 62. Address: 5710 Seminary Rd, Falls Church, Va. 22041.

BARBER, DR. LAURENCE L(UTHER), JR, b. Bridgeport, Conn, Apr. 19, 16. PUBLIC ADMINISTRATION. A.B, Harvard, 37, A.M, 39, Ph.D, 41. Instr, Harvard, 39-43, 46; from asst. prof. to assoc. prof. govt, Trinity Col.(Conn), 46-54; PUB. ADMIN. EXPERT, UN, 54- Address: Public Administration Division, United Nations, New York, N.Y. 10017.

BARBER, DEAN LLOYD I, b. Regina, Sask, Mar. 8, 32; m. 56; c. 5. BUSINESS ADMINISTRATION. B.A, Saskatchewan, 53, B.C, 54; M.B.A, California, Berkeley, 55; D.B.A, Washington (Seattle), 64. Instr. bus. admin, COL. COMMERCE, SASKATCHEWAN, 55-57, asst. prof, 57-64, assoc. prof, 64-65, PROF. BUS. ADMIN. & DEAN COL, 65- Consult. Mem, Royal Cmn. Govt. Admin, Sask, 64-65; Youth Rev. Cmt, 65-66; v.pres, Asn. Can. Schs. Bus, 66, pres, 67-; mem, Legis. Coun. Northwest Territories, 67- Econ. Asn. Publ: Co-auth, Report of Royal Commission on Government Administration, Queen's Printer, Sask, 65. Address: College of Commerce, University of Saskatchewan, Saskatoon, Sask, Can.

BARBER, MILDRED SHERIDAN, b. Boston, Mass, Sept. 11, 22; m. 49. ECONOMICS. B.S, Massachusetts, 43. Economist, U.S. DEPT. LABOR, 46, chief statist, women's bur, 54-58, spec. asst. to dir, 58-62, RES. DIR. BUR. APPRENTICESHIP & TRAINING, 62- Econ. Asn; Statist. Asn; Personnel & Guid. Asn. Labor force; sampling for surveys; occupational research; employment opportunities. Publ: Opportunities for medical technologists; Opportunities for x-ray technicians; Opportunities in professional engineering. Address: 1325 Fourth St, S.W, Washington, D.C. 20024.

BARBER, DR. T(HEODORE) X(ENOPHON), b. Martins Ferry, Ohio, Jan. 29, 27; m. 57; c. 2. PSYCHOLOGY. B.A, American Univ, 54, Ph.D.(psychol), 56. Nat. Inst. Ment. Health fel. soc. rels, Harvard, 56-59; RES. ASSOC, MEDFIELD STATE HOSP, 59- Res. assoc, Worcester Found, 59-61; res. assoc, sch. med, Boston, 60- Psychol. Asn; Int. Soc. Clin. & Exp. Hypnosis. Hypnosis; psychophysiology of pain. Publ: Concept of hypnosis, J. Psychol; Toward a theory of pain & Physiological effects of hypnosis, Psychol. Bull. Address: 3 Solon St, Wellesley, Mass. 02181.

BARBER, WILLARD FOSTER, b. Mitchell, S.Dak, Mar. 21, 09; m. 28; c. 1. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B, Stanford, 28, M.A, 29; Columbia, 30-33; dipl, Nat. War Col, 48. Instr. govt, City Col. New York, 30-38; asst. chief Caribbean & Cent. Am. Div, U.S. State Dept, 41-43, chief, 44-48, dep. asst. secy. for Inter-Am. affairs, 49-50; counsr. & in charge of affairs, U.S. Embassy, Lima, 50-53, Bogota, 53-56, Warsaw, 56-57; dir. dept. polit. affairs, Nat. War Col, 57-58; dir. sr. officer training, for. serv. inst, U.S. State Dept, 58-60; dir. mutual security Eval. Teams, Iran, Turkey & Pakistan, 60-62; LECTR. INT. AFFAIRS, MARYLAND, 62- Vis. prof. & Mershon prof, Ohio State, 64-65. Soc. Pub. Admin; Polit. Sci. Asn; Soc. Int. Law. United States policy and military policy in Latin America; United States technical assistance, military and economic assistance programs. Publ: Co-auth, American government, Globe, 35 & Internal security and military power, counterinsurgency and civic action in Latin America, Ohio State Univ, 66. Address: 3718 University Ave. N.W, Washington, D.C. 20016.

BARBER, PROF. WILLIAM JOSEPH, b. Abilene, Kans, Jan. 13, 25; m. 55; c. 3. ECONOMICS. B.A, Harvard, 49; B.A, Oxford, 51, Rhodes scholar. & M.A, 55, studentship, 55-57, Ford Found. fel. & D.Phil.(econ), 57. Vis. lectr, ECON, Balliol Col, Oxford, 56; asst. prof, WESLEYAN, 57-61, assoc. prof, 61-65, PROF, 65- Res. assoc, Twentieth Century Fund, 61-62. U.S.A, 43-46, Sgt. Am. Econ. Asn; African Studies Asn; Royal Econ. Soc. Economics of underdeveloped territories; history of economic theory. Publ: Economy of British Central Africa; History of economic thought, Penguin, 67. Address: Dept. of Economics, Wesleyan University, Middletown, Conn. 06457.

BARBERA, RICHARD C, Physics, Sci. Ed, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BARBOSA-DASILVA, DR. JOSE F, b. São Paulo, Brazil, Sept. 1, 34. SOCIOLOGY. B.A, São Paulo, 57, M.A, 59; M.Sc, Florida, 60, Ph.D.(sociol), 63. Res. coordinator sociol, point IV center, São Paulo, 57-59; res. technician demog. Florida, 61-63; asst. prof. SOCIOL, Texas, El Paso, 64-66, ASSOC. PROF, 66-68; NOTRE DAME, 68- Vis. prof, Notre Dame, 67-; summers, asst. dir, Brazil studies, Florida, 64, dir, 65, vis. lectr, Univ. of the Triangle, Brazil, 66. Brazilian Army Reserve, Lt. Am. Sociol. Asn; Pop. Asn. Am; Brazilian Sociol. Asn. Population problems in developing societies; sociocultural dimensions of Latin America. Publ: Marginal adolescents in São Paulo, Univ. São Paulo, 60; Age-sex differentials in migration, Univ. Nacional Colombia, 67; Joazeiro, the new Jerusalem, Sociologia, 61. Address: Dept. of Sociology & Anthropology, University of Notre Dame, Notre Dame, Ind. 46556.

BARBOUR, DR. DANA M(ILLS), b. Auburn, Maine, Nov. 11, 07; m. 58. STATISTICS. A.B, Washington (Seattle), 29, A.M, 30; fel, Brookings Instn, 37-38; Ph.D.(polit. sci), Stanford, 48. From asst. economist to anal. statistician, U.S. BUR. BUDGET, 39-66, ASSOC. CLEARANCE OFFICER, 66- U.S.A, 43-45. Fel. Statist. Asn. Labor and criminal statistics; federal procurement. Publ: Co-auth, Government purchasing, an economic commentary. Address: 8211 Kentbury Dr, Bethesda, Md. 20014.

BARCH, PROF. ABRAM M(OSES), b. Chicago, Ill, Nov. 9, 24; m. 49; c. 2. PSYCHOLOGY. B.A, Indiana, 49; M.A, Iowa, 51, Ph.D, 52. Res. assoc, res. scientist, prog. leader & exec. officer, training methods div, HumRRO, George Washington, 52-55; asst. prof. PSYCHOL, MICH. STATE, 55-59, assoc. prof, 59-64, PROF, 64- U.S.A, 43-46. Psychol. Asn; Psychonomic Soc. Human learning; history of science; language behavior. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

BARCKLEY, PROF. ROBERT E(UGENE), b. Page, N.Dak, Sept. 14, 22; m. 48; c. 2. ECONOMICS. B.S, North Dakota, 48; M.A, Columbia, 50; Ph.D.(econ), Illinois, 57. Instr. econ, N.Dak. State Col, 50-51; act. chief economist, Off. Price Stabilization, N.Dak, 51-53; asst. ECON, Illinois, 53-55; asst. prof, SAN DIEGO STATE COL, 55-60, assoc. prof, 60-64, PROF, 64- U.S.A, 43-46. Econ. Asn. Government regulation of business; economic concentration, agricultural economic policy. Address: Dept. of Economics, San Diego State College, San Diego, Calif. 92115.

BARCLAY, PROF. A(LLAN) G(ENE), b. Masonville, Iowa, Dec. 22, 30; m. 52; c. 1. PSYCHOLOGY. A.B, Tulsa, 58; Ph.D, Washington (St. Louis), 60. Clin. psychologist, Vet. Admin, 59-60; from asst. prof. to assoc. prof. psychol, ST. LOUIS, 60-67, PROF. PSYCHOL. & ASSOC. DIR. CHILD DEVELOP. CLIN, 67-; CHIEF PSYCHOLOGIST, CARDINAL GLENNON MEM. HOSP. CHILDREN, 60- U.S.A, 48-52, Sgt. AAAS; Psychol. Asn; Asn. Ment. Deficiency; Soc. Proj. Tech; Am. Med. Asn. Clinical psychology, especially with children; developmental psychology; learning theory. Publ: Objective mediators and transfer in learning; Father absence, cross-sex identification, and field dependency in male adolescents & Guessing behavior of normal and retarded children, Child Develop, 67. Address: Dept. of Psychology, St. Louis University, St. Louis, Mo. 63103.

BARCLAY, DR. HAROLD B(ARTON), b. Newton, Mass, Jan. 3, 24; m. 53; c. 2. ANTHROPOLOGY. B.A, Boston, 52; M.A, Cornell, 54, Ph.D.(anthrop), 61. Teaching asst. ANTHROP, Cornell, 54-56; instr, American Univ. Cairo, 56-60; asst. prof, Knox Col.(Ill), 60-63; Oregon, 63-66; ASSOC. PROF, ALBERTA, 66-, ACTING CHMN. DEPT, 67- Vis. assoc. prof, Texas, 65-66. Fel. Anthrop. Asn. Ethnography of Arab villagers; Mennonite and similar types of sectarian communities; social movements; religion; peasantry. Publ: Buurri al Lamaab: a suburban village in the Sudan, Cornell Univ, 64; Study of an Egyptian village community, Studies in Islam, 7 & 10/66; Plain people of Oregon, Rev. Relig. Res, spring 67. Address: Dept. of Anthropology, University of Alberta, Edmonton, Alta, Can.

BARCLAY, PROF. JAMES RALPH, b. Grand Rapids, Mich, May 6, 26; m. 54; c. 4. EDUCATIONAL & COUNSELING PSYCHOLOGY. A.B, Sacred Heart Col. & Sem, 49; A.M, Michigan, 56, Ph.D, 59. Teacher, Boys Repub, Mich, 53; instr. ed, Detroit, 55-58; vis. lectr, Flint Col, Michigan, 58-59; asst. prof, Idaho State, 59-61, assoc. prof, 61-64, prof, 64, dir. counseling & testing center, 60-64; assoc. prof. ED. PSYCHOL, CALIF. STATE COL. HAYWARD, 64-66, PROF, 66-, COORDINATOR SCH. PSYCHOL. PROG, 64- Dir. Nat. Defense Ed. Act Inst, Calif. State Col. Hayward, 67-68, counseling & guid. summer insts, Idaho State, 62-64. Diagnostician, Redford Union Schs, Mich, 57-59; psychologist, pub. schs, Idaho, 59-61; State Health Dept. Ment. Retarded, 61- Rep. spec. ed. proj, West. Interstate Cmn. Higher Ed, 60; spec. training session testing of deaf, U.S. Off. Voc. Rehab, 61. Res. consult, Oakland Pub. Schs, Calif, 64-67; consult, U.S. Off. Ed, D.C, 67. Psychol. Asn.(asst. ed, Newsletter, 67-); Asn. Ment. Deficiency; Personnel & Guid. Asn; Ed. Res. Asn. School psychology; counseling theory; personality assessment. Publ: Testing for higher ed. Cultural perspective & future focus, Am. Personnel & Guid. Asn, 65; Counseling & philosophy; A theoretical inquiry, Houghton, 67; Strategies of counseling: A systems approach, Wiley, 68. Address: Dept. of Educational Psychology, California State College at Hayward, Hayward, Calif. 94543.

BARCLAY, PROF. THOMAS S(WAIN), b. St. Louis, Mo, Jan. 26, 92. POLITICAL SCIENCE. A.B, Missouri, 15, Gregory scholar, 15-16, A.M, 16, hon. LL.D, 62; fel, Chicago, 16-17; univ. scholar, Columbia, 20-22, Ph.D, 24. Instr. POLIT. SCI, Missouri, 20, asst. prof, 22-26, assoc. prof, 26-27; STANFORD, 28-37, PROF, 37- Consult. fel, Brookings Inst, 31-33; vis. prof, Minnesota, 36; Illinois, 47-48; Michigan, 49-50. Tech. asst, Am. Peace Cmn, France, 19. Polit. Sci. Asn; Acad. Polit. Sci. Liberal Republican movement in Missouri; movement for municipal home rule; legislatures; home rule charters. Address: Dept. of Political Science, Stanford University, P.O. Box 3669, Stanford, Calif. 94305.

BARD, PROF. ERWIN W(ILKIE), b. Baguio, Philippines, July 12, 03; m. 34; c. 3. POLITICAL SCIENCE. Ph.B, Yale, 25; M.A, Columbia, 29, Ph.D, 39. Instr. POLIT. SCI, New Hampshire, 33-37; BROOKLYN COL, 37-43, asst.

prof, 43-49, assoc. prof, 49-54, PROF, 54- Vis. prof, Col. Europe, Belgium, 56-57. Asst. to exec. secy, War. Prod. Bd, 43; adv, inst. pub. admin, U.S. Agency Int. Develop, Peru, 63-65. U.S.A, 43-46, Maj. Polit. Sci. Asn; Soc. Pub. Admin. Public administration. Publ: The port of New York Authority. Address: Dept. of Political Science, Brooklyn College, Brooklyn, N.Y. 11210.

BARD, DR. JAMES A, b. Youngstown, Ohio, June 1, 25; m. 58; c. 2. PSYCHOLOGY. B.S, Pittsburgh, 48; Ph.D, Western Reserve, 53. Asst. dir, Childrens Aid Soc, 51-53; asst. prof. PSYCHOL, Fenn Col, 53-65; ASSOC. PROF, CLEVELAND STATE, 65- U.S.N, 43-46. Psychol. Asn. Parent-child relations; psychotherapy. Publ: Co-auth, A practical system for classifying emotionally disturbed children, Am. J. Group Ther, 54; auth, Cognition and motivation, 61 & Psychopathology, psychotherapy and Piaget, 67, J. Rational Living. Address: Dept. of Psychology, Cleveland State University, Cleveland, Ohio 44115.

BARD, DR. MORTON, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BARDIS, PROF. PANOS D(EMETRIOS), b. Lefcohorion, Greece, Sept. 24, 24; nat; m. 64. SOCIOLOGY. B.A, Bethany Col.(W.Va), 50; M.A, Notre Dame, 53; Ph.D.(sociol, psychol, anthrop), Purdue, 55. Asst. SOCIOL, Purdue, 54-55; instr, Albion Col, 55-57, asst. prof, 57-58, assoc. prof. & acting chmn, 58-59; assoc. prof, TOLEDO, 59-62, PROF, 63- Consult, Nat. Asn. Standard Med. Vocabulary, 63- Ed, Soc. Sci, 59-; asst. Am. ed, Indian J. Soc. Res, 65- Mem, Group Study Socioling, 67- Fel. AAAS; fel. Sociol. Asn; fel. Int. Inst. Arts & Letters; Nat. Coun. Family Rels. History of family; social change; scales for measurement of attitudes; sociology of education; international relations; history of mathematics, science, time concepts, and ideas; Greek and Latin classics. Publ: Ivan and Artemis, Pageant, 57; The family in changing civilizations, Simon & Schuster, 67; Evolution of pi: an essay on mathematical progress from the great pyramid to Eniac, Sch. Sci. & Math, 1/60. Address: Dept. of Sociology, University of Toledo, Toledo, Ohio 43606.

BARDON, PROF. JACK IRVING, b. Cleveland, Ohio, Oct. 24, 25; m. 48; c. 2. PSYCHOLOGY. B.A, Western Reserve, 49; M.A, Pennsylvania, 51, Ph.D. (psychol), 56. Psychologist, N.J. Pub. Schs, 52-60; assoc. prof. ED, RUTGERS, 60-63, PROF, 63- Consult, U.S. Off. Ed, 66- U.S.A, 44-46. Psychol. Asn; Personnel & Guid. Asn; Orthopsychiat. Asn. Professional problems and role of school psychologist; mental health education; social perception. Publ: Co-auth, When teaching does not take, Elem. Sch. J, 66; Training in professional psychology: an example from school psychology, Am. Psychologist, 67; auth, Teaching psychology and the behavioral sciences in the schools, J. Sch. Psychol, 67. Address: 39 N. Fifth Ave, Highland Park, N.J. 08904.

BARDSLEY, DR. ROGER E(DWIN), b. Iowa City, Iowa, Mar. 4, 18; m. 42; c. 2. PSYCHOLOGY. B.A, Iowa, 40, M.A, 41; Ph.D.(psychol), California, 51. CHIEF PSYCHOL. SERV, VET. ADMIN. HOSP, 51- U.S.A, 42-46. Psychol. Asn. Psychosomatic medicine; orthopedics. Address: Veterans Administration Hospital, Livermore, Calif. 94550.

BARDWELL, DR. GEORGE, Math, Statist, see 11th ed, Phys. & Biol. Vols.

BARE, PROF. JOHN K(IRBY), b. Lexington, Mo, Dec. 10, 17; m. 44; c. 1. PSYCHOLOGY. A.B, Oberlin Col, 40; M.Sc, Brown, 42, Ph.D.(psychol), 47. Asst. psychol, Brown, 40-42, 46-47, instr, 47-48, asst. prof, 48-49; Col. William & Mary, 49-50, assoc. prof, 50-58; PROF. PSYCHOL. & CO-CHMN. DEPT. PSYCHOL. & ED, CARLETON COL, 58- Consult, Nat. Sci. Found, 63- U.S.A, 42-46. AAAS; Psychol. Asn; Psychonomic Soc. Specific hunger behavior in man and animals; motivation. Publ: Hunger, deprivation and the day-night cycle & co-auth, Deprivation and time of testing as determinants of food intake, J. Comp. & Physiol. Psychol; co-auth, An olfactometer for the white rat, Science. Address: Dept. of Psychology, Carleton College, Northfield, Minn. 55057.

BARENDSEN, DR. ROBERT DALE, b. Evanston, Ill, Jan. 20, 23; m. 51. INTERNATIONAL RELATIONS. B.A, DePauw, 45; Rockefeller Found. fel. & M.A, Yale, 49, Sterling fel. & Ph.D.(int. rels), 57. Asst. polit. sci, Yale, 54-57, lectr, Inst. Far East. Lang, 55-57; FAR EAST. SPECIALIST, U.S. OFF. ED, 59- U.S.A, 43-46, 51-52, 1st Lt. Asn. Asian Studies; Polit. Sci. Asn; Comp. Ed. Soc. Political and cultural developments, especially educational, in contemporary China; educational systems of Far Eastern countries and their relation to political conditions. Publ: Half-work, half-study schools in Communist China, U.S. Off. Ed, 64; Education in China: a survey, Probs. of Communism, 7-8/64; Education in Mao's China, Am. Ed, 66. Address: U.S. Office of Education, 400 Maryland Ave. S.W, Washington, D.C. 20202.

BARETSKI, DR. CHARLES, Am. Hist, Slavonic Lang. & Lit, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARG, DR. BENJAMIN, b. Brisbane, Australia, Jan. 16, 32; m. 67. ECONOMICS. B.A, Sydney, 52; M.B.A, Harvard, 58; Ph.D.(mgt, int. econ), Columbia, 60. Econ. affairs officer, dept. econ. & soc. affairs, UN Secretariat, New York, 60-61; asst. prof. econ, Pennsylvania, 61-63; econ. affairs officer, dept. econ. & soc. affairs, UN SECRETARIAT, NEW YORK, 63-66, SCI. AFFAIRS OFFICER, OFF. SCI. & TECH, 66-, CHIEF ADV. SERV. & DEVELOP, 68-, summer consult fiscal & financial br, UN, 62. Lectr, Columbia, 58-61; adj. assoc. prof, N.Y. Univ, 65- Econ. Asn; Am. Soc. Pub. Admin; Inst. Mgt. Sci; Royal Inst. Pub. Admin. Management; social science. Publ: A study of U.S. economic control in Canadian secondary industry, 60. Address: 212 E. 48th St, New York, N.Y. 10017.

BARGAR, DR. B(RADLEY) D(UFFEE), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARGER, PROF. BENJAMIN, b. Belgian Congo, Oct. 26, 20; U.S. citizen; m. 46; c. 3. PSYCHOLOGY. A.B, George Washington, 47; Ph.D.(psychol), Duke, 52. Sr. intern clin. psychol, univ. hosp, Duke, 50-51; chief psychologist, ment. hyg. clin, health center, Ohio State, 52-55; dir. psychol. serv, Columbus Psychiat. Inst. & Hosp, 55-59; co-dir. STUDENT HEALTH PROJ. & lectr. PSYCHOL, FLORIDA, 58-65, DIR. & PROF, 65- Asst. prof. col. med, Ohio State, 55-59. Consult, Proj. Student Develop. Small Cols, 66-; mem. juvenile probs. res. rev. cmt, Nat. Insts. Ment. Health, 67-71. U.S.A, 43-46. AAAS; Psychol. Asn; Col. Health Asn. Personality structure, development and function; behavior modification; student health and development. Publ: Co-auth, Personality patterns and achievement in college, 64 & The interaction of ability levels and socioeconomic variables in the prediction of college dropouts and grade achievement, 65, Ed. & Psychol. Measurement; co-auth, Preventive action in college mental health, Col. Health, 66. Address: 3029 N.W. Second Ave, Gainesville, Fla. 32601.

BARGER, PROF. HAROLD, b. London, Eng, Apr. 27, 07; nat; m. 37, 55. ECONOMICS. B.A, Cambridge, 30; Garton traveling fel, London, 36-37, Ph.D, 37. Lectr. polit. econ, Univ. Col, London, 31-36, 38-39; instr. ECON, COLUMBIA, 37-38, 39-42, asst. prof, 42-47, assoc. prof, 47-54, PROF, 54- Mem. res. staff, Nat. Bur. Econ. Res, N.Y, 40-54. U.S.A, 43-45. Econ. Asn; Economet. Soc. Productivity measurements; money and banking; econometrics. Publ: Outlay and income in the United States; Distribution's place in the American economy; Management of money, Rand McNally, 64. Address: Dept. of Economics, Columbia University, New York, N.Y. 10027.

BARGHOORN, PROF. FREDERICK C(HARLES), b. New York, N.Y, July 4, 11. POLITICAL SCIENCE. A.B, Amherst Col, 34; Ph.D, Harvard, 41. Assoc. div. asst, Div. East. European Affairs, U.S. Dept. State, 41-42; press attaché, Am. Embassy, Moscow, 42-47; asst. prof. POLIT. SCI, YALE, 47-48, res. assoc, 48-52, assoc. prof, 52-56, PROF, 56- Vis. assoc. prof, Columbia, 50-51. Russian history and Soviet institutions and foreign policy. Publ: Soviet foreign propaganda, Princeton, 64; Politics in the U.S.S.R, Little, 66; co-auth, Political culture and political development, Princeton, 66. Address: 100 York St, New Haven, Conn. 06511.

BARGMAN, PROF. ABRAHAM, b. New York, N.Y, Sept. 20, 24; m. 66; c. 3. POLITICAL SCIENCE. B.S, City Col. New York, 48; M.A, N.Y. Univ, 50; Ph.D.(int. rels), London Sch. Econ, 52. Asst. polit. affairs officer disputes, UN, 52-55, polit. affairs officer disarmament, 55-66; PROF. POLIT. SCI, BROOKLYN COL, 66- Consult, Brawne & Shaw Res. Corp, 67-68. U.S.A.A.F, 42-46, Sgt. Interaction between international representative institutions: UN, disarmament conferences, national policy and elite opinion. Publ: Political problems, In: Annual review of UN affairs, 1964-1965, Oceana, 66; The study of disarmaments conferences, J. Conflict Resolution, 6/67. Address: 9 Mirrielees Rd, Great Neck, N.Y. 11021.

BARINGER, PROF. WILLIAM E(LDON), b. Jamestown, Ind, July 19, 09; m. 37; c. 2. SOCIAL SCIENCE. B.S, Illinois, 31, A.M, 32, Ph.D, 40; Litt.D, Lincoln Col, 65. Instr, Gogebic Jr. Col, 40-42; asst. prof, Tulane, 42-43; exec. secy, Abraham Lincoln Asn, Ill, 43-47; assoc. prof. SOC. SCI, FLORIDA, 47-49, PROF, 49- Exec. dir, Lincoln Sesquicentennial Cmn, D.C, 58-60. Am. Hist. Asn. United States history; Lincoln; Civil War. Publ: Lincoln's rise to power; Lincoln's Vandalia: a pioneer portrait; Lincoln day by day, a chronology. Address: W.W. Little Hall, University of Florida, Gainesville, Fla. 32601.

BARK, PROF. WILLIAM, Medieval Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARKAS, DR. BENJAMIN W(ILLIAM), b. Russia, July 21, 97; nat; m. 23; c. 1. ECONOMICS. B.S, Cornell, 21, A.M, 23, Ph.D.(econ, hist. & sociol), 25. Instr. rural econ, Cornell, 21-25; lectr. & exec. secy, Labor Col. of Phila, 25-29; prin, Mohegan Mod. Sch, 29-31; teacher biol. & soc. studies, Phila. Pub. Schs, 31-47, specialist labor ed. in sch. exten, 47-65; RETIRED. Adv. various community orgn, 65- Organizer labor ed. prog, Pa. State, 42-46; lectr, Temple, 42-65. Econ. Asn; Indust. Rel. Res. Asn. Content and method of workers' education; trade union organization and administration; economic education. Publ: Ways and means committee of upholstery weavers union; Adult education for social change; Labor management relations. Address: 7711 Revere St, Philadelphia, Pa. 19152.

BARKER, C(LARENCE) AUSTIN, b. Centralia, Wash, Dec. 2, 11; m. 41; c. 2. ECONOMICS, FINANCE. A.B, Stanford, 34; Columbia, 34-36; M.B.A, N.Y. Univ, 39. Commercial cadet & regulatory analyst, Pub. Serv. Elec. & Gas Co, 36-44; mgr. financial res, Cleveland Elec. Illum. Co, 44-59, secy. finance cmt, bd. dirs, 54-59; ECONOMIST, HORNBLOWER & WEEKS-HEMPHILL, NOYES, INC, 59-62, PARTNER, 62-, EXEC. V.PRES. INVESTMENT ADV. SERV, 65-, dir. res, 59-62. Lectr, Western Reserve, 56-59. Econ. Asn; Finance Asn; Statist. Asn; Asn. Bus. Econ. Corporation finance; investments. Publ: Evaluation of stock dividends, Harvard Bus. Rev; Price changes of stock dividend shares, J. Finance; U.S. balance of payments-problems and remedies, Financial Analysts J, 9-10/65. Address: 2 Hickory Dr, Rye, N.Y. 10580.

BARKER, CURTIS H(ERBERT), b. Bridgeport, Conn, Mar. 28, 28; m. 52; c. 2. SOCIAL PSYCHOLOGY, POLITICAL SCIENCE. B.A, Syracuse, 51; M.A, Michigan, 53; Mass. Inst. Tech, 57-61. Asst, res. center group dynamics, Michigan, 51-53; res. technician, officer ed. res. lab, Air Univ, 53-57; mem. staff, center int. studies, Mass. Inst. Tech, 57-61; analyst, int. studies div, Inst. Defense Analyses, 61-64; res. admin. soc. systs. res, AGENCY INT. DEVELOP, WASH, D.C, 64-65, UNIV. RELS. OFFICER, 65- Consult, Brookings Instn, D.C, 60. U.S.A.F, 53-57, Capt. Relationship between ideology and behavior, especially techniques of influencing attitudes; relationship between the academic community and the federal government, particularly in international affairs. Publ: Coercive persuasion: a socio-psychological analysis of the brainwashing of American civilian prisoners by the Chinese communists. Address: 4843 Langdrum Lane, Chevy Chase, Md. 20015.

BARKER, PROF. DONALD GENE, b. Waco, Tex, Jan. 9, 29; m. 53; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Baylor, 52, M.A, 54; Ph.D. (ed. psychol), Texas, 61. Employ. counsr, Tex. Employment Cmn, 53-56; rehab. counsr, Tex. Cmn. Blind, 56-57; personnel technician, Tex. Merit Syst. Coun, 57-59; asst. prof. PSYCHOL. & ED, TEXAS A&M, 59-63, assoc. prof, 63-67, PROF, 67- Voc. consult, Dept. Health, Ed. & Welfare, 62- Psychol.

Asn; Personnel & Guid. Asn; Voc. Guid. Asn; Rehab. Asn. Test construction; attitude measurement; experimental design. Publ: Concepts of disabilities, 12/64 & Development of a scale of attitudes toward school guidance, 6/66, Personnel & Guid. J; Measurement of attitudes toward riding the school bus, Psychol. in Schs, 7/66. Address: Dept. of Education & Psychology, Texas A&M University, College Station, Tex. 77843.

BARKER, DR. EDWIN N(OEL), b. Birmingham, Ala, Aug. 17, 29; m. 52; c. 2. CLINICAL PSYCHOLOGY. B.S, Auburn, 50; Ph.D, Columbia, 58. Asst. prof. psychol, Ohio State, 57-61, assoc. prof. 61-66; dir. psychol. dept, Peace Corps Training Center, Univ. Hawaii, 66-67, regional selection officer, PEACE CORPS, 67, dir. res, 67-68, DEP. DIR. PLANNING, PROG. REV. & RES, 68- Vis. lectr, Teachers Col, Columbia, 62. Psychol. Asn. Values; social research. Address: Peace Corps, Washington, D.C. 20525.

BARKER, PROF. GORDON H(ITCHCOCK), b. Chicago, Ill, Nov. 2, 05; m. 48. SOCIOLOGY. B.S, Northwestern, 28, A.M, 38, Ph.D, 40. Asst. prof. SOCIOL, COLORADO, 40-50, assoc. prof, 50-58, PROF, 58- With Univ. Maryland overseas prog, 53-54, 56-57; Fulbright fel, Athens, Greece, 64-65. Del, President's White House Conf, 60, consult, President's Cmn. on Law Enforcement & Admin. Justice, 66-67; mem, Governor's Cmn. to Study Need for Facilities for Criminally Insane, 66-67. Sociol. Asn; Soc. Criminol. Corrections. Publ: Co-auth, Comparison of the delinquencies of boys and girls, J. Crimmal Law, Criminol. & Police Sci, 12/62; Negro delinquents in public training schools in the West, J. Negro Ed, summer 63; auth, Volunteers in corrections, President's Cmn. Law Enforcement & Admin. of Justice, 6/67. Address: Dept. of Sociology, University of Colorado, Boulder, Colo. 80302.

BARKER, PROF. HARRY ROSS, Psychol, see 10th ed, Soc. & Behav. Vols.

BARKER, DR. LARRY LEE, Speech, Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BARKER, PROF. L(OUIS) ALAN, b. Chicago, Ill, July 29, 28; m. 53; c. 3. PSYCHOLOGY. B.S, Mich. State, 49, M.A, 51, Ph.D.(psychol), 52. Asst. prof. PSYCHOL, Ferris Col, 56-57; PROF, Ohio Northern, 57-61; Ill. Inst. Tech, 62-63; Alma Col, 63-64; ASHLAND COL, 64- Vis. prof. eve, Ohio State, 60-61, 64-68; vis. prof, Purdue, 65-66. Minnesota multiphasic personality inventory; Cattell 16 factor personality inventory; Allport Vernon; scale of values and Wechsler adult intelligence scale; personality and intelligence testing. Publ: Review of the literature of leadership research; Analysis of student leaders in university environments; Evaluation of personality traits of student leaders. Address: Dept. of Psychology, Ashland College, Ashland, Ohio 44805.

BARKER, DR. M.A.R, b. Spokane, Wash, Nov. 2, 29; m. 59. LINGUISTICS. B.A, Washington (Seattle), 51; univ. fel, California, Berkeley, 56-57, Ph.D. (ling), 59. Res. assoc. LING, Inst. Islamic Studies, McGill, 57-59; reader, Panjab, Pakistan, 59-62; asst. prof, INST. ISLAMIC STUDIES, McGILL, 62-66, ASSOC. PROF, 66-, dir, Urdu-Baluchi Res. Proj, 63-68. Fulbright scholar, India, 51-53; Am. Coun. Learned Soc. grant, Summer Inst. Ling, 54- Ling. Soc. Am; Can. Ling. Asn. Language research and preparation of teaching materials for languages of Pakistan and India; general descriptive linguistics and language and culture of American Indian languages. Publ: A Klamath grammar, dictionary and texts, Univ. California, Berkeley, 3 vols, 63 & 64; A course in Urdu, 3 vols, 67 & An Urdu newspaper reader, 68, McGill Univ. Address: Institute of Islamic Studies, McGill University, Montreal 2, Que, Can.

BARKER, DR. MARY F(ERRY), b. Turtle Creek, Pa, Jan. 3, 22; m. 51. PSYCHOLOGY. B.S, Pittsburgh, 47, M.S, 49, Ph.D, 52. Res. assoc, grad. sch. pub. health, Pittsburgh, 50-51; res. psychologist, Am. Inst. Res, 51-52; lectr. psychol, Brooklyn Col, 52-53; South Carolina, 53-54; George Washington, 54-55, counsr, testing & counseling center, 55-56, dir, 56-58; co-dir, PSYCHOL. TESTING CENTER, Falls Church, 58-65, DIR, McLEAN, 65- Res. psychologist, Psychol. Res. Assocs, 54-55. Psychol. Asn. Influence of patterns of development on learning and productivity. Address: 9112 Mine Run Dr, Great Falls, Va. 22066.

BARKER, PROF. PAUL M, b. Pratt, Kans, Nov. 13, 11; m. 34; c. 2. ANTHROPOLOGY. A.B, Wittenberg, 33; M.S, Kans. State Teachers Col, 42; B.D, Colgate-Rochester Divinity Sch, 45. Caseworker, Kans. Emergency Relief, 34-35; clergyman, Baptist Church, Kans, 35-37; dir. prom, Ottawa, 37-41; instr. psychol, Kans. State Teachers Col, 41-43; ASSOC. PROF. ANTHROP, GORHAM STATE COL, 49- Mem, Interdenominational World Preaching Mission Team, 38; clergyman, Baptist Church, 41-43. Nat. Ed. Asn. Prehistoric art of the Caribbean; pre-Columbian paleo-osteo-pathology. Publ: Les cultures cadet et manigat, 61 & Le chien de Pierre de Chansolme, 63, Bur. Ethnol, Haiti; co-auth, A proposal for an overseas training administration, Graphic Arts Lab, Maine, 61. Address: 124 School St, Gorham, Maine 04038.

BARKER, DR. RANDOLPH, b. Boston, Mass, Dec. 23, 29; m. 57; c. 4. AGRICULTURAL ECONOMICS. B.S, Cornell, 53; M.S, Oregon State, 57; Ph.D, Iowa State, 60. Instr. farm mgt, Iowa State, 56-57, agr. economist, farm prod. econ. div, econ. res. serv, U.S. Dept. Agr, 57-63; assoc. prof. agr. econ, Cornell, 63-67; AGR. ECONOMIST, INT. RICE RES. INST, 67- Production economics; econometric analysis. Publ: Economy of innovations in dairy farming and adjustments to increase resource returns. Address: International Rice Research Institute, Los Baños, Philippines.

BARKER, DR. RAYMOND FREDERICK, b. Philadelphia, Pa, Nov. 28, 29; m. 51; c. 2. MARKETING, STATISTICS. B.A, Tex. West. Col, 56; M.B.A, Texas, 57, Ph.D, 62. Lectr. mkt. & statist, Texas, 56-57, instr, 57-60; asst. prof, Arlington State Col, 60-64; MKT, BOWLING GREEN STATE, 64-67, ASSOC. PROF, 67- U.S.A, 51-53. Mkt. Asn. Food marketing; retail store layout; inventory control; space assignment. Publ: Space and inventory management by computer simulation, J. Retailing (in press). Address: Dept. of Marketing, Bowling Green State University, Bowling Green, Ohio 43402.

BARKER, DR. RICHARD J, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARKER, PROF. ROBERT (HARVIE), b. Ringgold, Va, Feb. 28. 04. SOCIOLOGY. A.B, Furman, 26; A.M, Vanderbilt, 27; Ph.D, Virginia, 34. Dir. res. & statist, State Dept. Labor & Indust, Va, 30-42; instr, Newport News Shipbldg. & Dry Dock Co, 42-44; PROF. econ. & sociol, Mercer, 44-45; SOCIOL, CENT. METHODIST COL, 45- Sociol. Asn. Fort Lewis, community in transition; unsatisfactory relationship of brother to brother in the development of personality. Address: Dept. of Sociology, Central Methodist College, Fayette, Mo. 65248.

BARKER, PROF. ROGER GARLOCK, b. Macksburg, Iowa, Mar. 31, 03; m. 30; c. 3. PSYCHOLOGY. A.B, Stanford, 28, A.M, 30, Ph.D.(psychol), 34. Res. assoc, Stanford, 33-35; Gen. Ed. Bd. fel, Iowa, 35-37; instr, Harvard, 37-38; asst. prof. ed. psychol, Illinois, 38-42; acting assoc. prof. PSYCHOL, Stanford, 42-46; PROF, Clark, 46-47; KANSAS, 47- Am. Coun. Ed. fel, Chicago, 40; fel, Center Adv. Study Behav. Sci, 57; Nat. Insts. Health res. career award, 63- AAAS; fel. Psychol. Asn; fel. Soc. Res. Child Develop.(pres, 57-59). Child and social psychology. Publ: Co-auth, Midwest and its children, Harper, 55; Stream of behavior, Appleton, 63; Big school, small school, Stanford, 64. Address: Midwest Psychological Field Station, Oskaloosa, Kans. 66066.

BARKER, DR. WILLIAM STERLING, b. Brooklyn, N.Y, Aug. 1, 17; m. 51. PSYCHOLOGY. B.S, Pittsburgh, 46, M.S, 47, Ph.D, 51. Instr. psychol, Pittsburgh, 46-51; Brooklyn Col, 51-53; from res. assoc. to res. dir. & v.pres, Matrix Corp, 53-64; SECT. HEAD, NAT. SCI. FOUND, 64- Pres, Man-Mach. Systs, Inc, 57-60. U.S.A, 42-45, Sgt. Fel. Psychol. Asn; Human Factors Soc. Engineering psychology; survey techniques; industrial and military selection and training; dissemination of scientific and technical information. Publ: Human factors in mail coding; A survey of human engineering and operational analysis problems of the ground installed reconnaissance data handling system; Human factors considerations in the functional design of the ASW coordinated tactics trainer, Device X14A6. Address: 9112 Mine Run Dr, Great Falls, Va. 22066.

BARKIN, DR. DAVID PETER, b. New York, N.Y, Feb. 3, 42. ECONOMICS, EDUCATION. B.A, Columbia, 62; M.A, Yale, 63, Ph.D.(econ), 66. ASST. PROF. econ & ed, Washington (St. Louis), 66-68; ECON, N.Y. UNIV, 68- Summers, vis. prof, Col. of Mex, 67, consult, U.S. Dept. Health, Ed. & Welfare, 67. Econ. Asn; Regional Sci. Asn; Soc. Int. Develop. Public expenditures and investment; planning and evaluation; regional economic development; economics of education; Latin America. Publ: Stability of neutralism: comment, Am. Econ. Rev, 12/64; Los cambios en la agricultura de terra cliente, Michoacan, Mexico, Nat. Sch. Agr, Mex, 65; State aid and the equalization of the burden of educational costs, In: Problems in urban educational planning, Cent. Midwest. Regional Ed. Lab, 67. Address: Dept. of Economics, New York University, New York, N.Y. 10003.

BARKIN, SOLOMON, b. New York, N.Y, Dec. 12, 07; m. 54; c. 3. ECONOMICS. B.S, City Col. New York, 28; M.A, Columbia, 29, univ. fel, 32-33; Wertheim fel, Harvard, 48-49. Asst. dir. res, N.Y. State Cmn. Old Age Security, 29-30, continuation cmt, 30-33; labor adv. bd, Nat. Recovery Act, 33-35, labor studies sect, 35-36; chief labor sect, div. indust. econ, U.S. Dept. Commerce, 36-37; dir. res, Textile Workers Union Am, 37-63; dep. to dir, manpower & soc. affairs directorate, head soc. affairs div, Orgn. Econ. Coop. & Develop, 63-68; PROF. ECON, MASSACHUSETTS, 68- Adj. prof, Columbia; mem, Inter-Am. Statist. Inst. Labor consult, War Prod. Bd; consult, Orgn. Econ. Coop. Develop, 68. Mem. bd. trustees, Nat. Planning Asn, 68. Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn.(pres, 64). Labor economics and statistics; industrial engineering. Publ: The older workers in industry; Decline of the labor movement and what to do about it; co-auth, Technical change and manpower planning coordination at enterprise level, Orgn. Econ. Coop. Develop, 67. Address: Long Hill Rd, Leverett, Mass. 01054.

BARKLEY, DR. BILL J(ARVIS), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

BARKLEY, PROF. DAVID W(RIGHT), b. Denver, Colo, Nov. 29, 09; m. 41; c. 1. GOVERNMENT. A.B, Southern California, 33, M.A, 34, Ph.D.(philos), 37; M.P.A, Harvard, 53. Field rep. & supvr, bur. old age & survivors ins, Soc. Security Admin, 41-50, training specialist, 50-52; lectr, Boston, 53-55; asst. prof. govt, NORTHEASTERN, 55-59, assoc. prof. POLIT. SCI, 59-63, PROF, 63- Res. assoc, Fiscal Surv. Cmn, Commonwealth of Mass, 54-55; assoc, sch. pub. health, Harvard, 55-56, instr, 57-60. U.S.A.A.F, 42-45. Polit. Sci. Asn; Soc. Pub. Admin; Geront. Soc. Public administration; gerontology. Address: 536 Huron Ave, Cambridge, Mass. 02138.

BARKLEY, PROF. KEY L(EE), b. Statesville, N.C, Feb. 24, 00; m. 28, 56; c. 4. PSYCHOLOGY. A.B, Berea Col, 26; M.A, North Carolina, 27, Ph.D. (psychol), 30. Instr. PSYCHOL, North Carolina, 27-30; Illinois, 30-31; asst. prof. Woman's Col, North Carolina, 31-35, assoc. prof, 35-48; PROF, NORTH CAROLINA, 48-, acting head dept, 55-56. Lectr, adult training insts, North Carolina. Fel. Psychol. Asn. Social, experimental and applied psychology. Publ: Efficiencies of advertisements; Changes in attitudes; Experimental techniques. Address: Dept. of Psychology, North Carolina State University, Raleigh, N.C. 27607.

BARKMAN, PROF. PAUL FRIESEN, Psychol. of Relig, see 10th ed, Soc. & Behav. Vols. Latest known address: 1545 N. Los Robles Ave, Pasadena, Calif. 91104.

BARKSDALE, PROF. H(IRAM) C(OLLIER), b. Sandersville, Ga, Dec. 4, 21; m. 50; c. 3. MARKETING. B.B.A, Georgia, 48; M.S, N.Y. Univ, 49, Ph.D, 55. Instr. mkt, Washburn, 49-51; proj. mgr, Advert. Res. Found, 52-56; assoc. prof. MKT, sch. commerce, N.Y. Univ, 56-61, v.chmn. dept, 59-61, prof. & chmn. dept, 61-65; PROF, GEORGIA, 65- Asst. to pres, Advert. Res. Found, 56-60; mem, Ford Found. summer seminar, Carnegie Inst. Tech, 62. C.W.S, 42-46, Sgt. AAAS; Mkt. Asn; Inst. Mgt. Sci; Soc. Hist. Tech; Mgt. Asn. Marketing and advertising; survey research as legal evidence; marketing theory. Publ: Use of survey research findings as legal evidence; Marketing in progress, Holt, 64; co-auth, Marketing research,

Ronald, 66. Address: Dept. of Marketing, College of Business, University of Georgia, Athens, Ga. 30601.

BARKUN, DR. MICHAEL, b. Chicago, Ill, Apr. 8, 38; m. 64; c. 1. POLITICAL SCIENCE. B.S.J, Northwestern, 60, M.A, 63, Harris fel, 63-64, Russell Sage fel, 64-65, Ph.D.(polit. sci.), 65. ASST. PROF. POLIT. SCI, SYRACUSE, 65- Polit. Sci. Asn; Soc. Int. Law; Law & Society Asn. Empirical legal theory; international law; American judicial process; international relations theory; politics of mass movements. Publ: Law without sanctions: order in primitive societies and the world community, Yale, 68; Conflict resolution through implicit mediation, J. Conflict. Res, 6/64; Bringing the insights of behavioral science to international rules, Western Reserve Law Rev, 7/67. Address: Dept. of Political Science, Maxwell School, Syracuse University, Syracuse, N.Y. 13210.

BARLEY, DR. DELBERT, b. Froid, Mont, June 28, 18; m. 47; c. 2. SOCIOLOGY. B.A, McPherson Col, 39; Iowa State Teachers Col, 39-40; M.A, Pennsylvania, 52, Ph.D.(sociol), 57; Fulbright fel, Freiburg, 53-54. Part time instr. sociol, Pennsylvania, 50-51; St. Joseph's Col.(Pa), 51-52; instr, Muhlenberg Col, 52-53; asst. prof, Ithaca Col, 55-58; dozent, Evangel. Seminar Soc. Work, Freiburg, 58-66; assoc. prof, State Univ. N.Y. Col. Geneseo, 66-67; PROF. SOCIOL. & DIR. BONNIGHEIM DIV, SCHILLER COL, GERMANY, 67- Lectr, Evangel. Acad. Church of Baden, Germany, 60-66; Evangel. Sr. Sem, Freiburg, 63, 66, 67-68; Citizen's Study Group, Stuttgart, 67-68. Sociol. Asn; Acad. Polit. & Soc. Sci. Demography; expulsion of Germans from eastern Europe after World War II and their subsequent integration into West German society; effects of the increasing dominance of formal organization in industrial society on the structure of individual relationships and on problems of personal identity. Publ: Grundzüge und Probleme der Soziologie, Luchterhand Verlag, 62, rev. ed, 66; Vom Wesen und Gebrauch der Freiheit, In: Politisch Denken und Handeln, Burchkardthaus Verlag Gelnhausen, 63; The organizational principle and the quality of human existence, Cross Currents, 67. Address: Schiller College, 7124 Bönnigheim, Germany.

BARLOON, PROF. MARVIN J(OHN), b. Carroll, Iowa, Dec. 11, 06; m. 38; c. 2. INDUSTRIAL & TRANSPORTATION ECONOMICS. B.S, Iowa, 31; M.B.A, Harvard, 35. Instr. ECON, Western Reserve, 35-38, asst. prof, 38-40; Tulane, 40-41; Harvard, 41-46; PROF, CASE WESTERN RESERVE, 46- Consult. Econ. Asn; Acad. Polit. & Soc. Sci; Transportation Res. Forum; Planning Asn. Transportation; industrial development. Contrib. to Harper's Mag, Harvard Bus. Rev. and N.Y. Times Mag. Address: Dept. of Economics, Case Western Reserve University, Cleveland, Ohio 44106.

BARLOW, DR. GEORGE W(EBBER), Zool, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

BARLOW, PROF. JOHN ALFRED, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BARLOW, DR. RICHARD EUGENE, Math. Statist, See 11th ed, Suppl. IV to Phys. & Biol. Vols.

BARLOW, DR. ROBERT F(RANCIS), b. Cambridge, Mass, May 6, 27; m. 53; c. 4. ECONOMICS. B.A, Colby Col, 50; M.A, Fletcher Sch. Law & Diplomacy, 51, Ph.D.(int. econ), 61; Fulbright fel, London Sch. Econ, 51-52. Instr. econ, Colby Col, 52-55; Delaware, 55-56; asst. prof, Colby Col, 56-61, assoc. prof. & admin. asst. to pres, 61-62; PROF. ECON, NEW HAMPSHIRE, 62-, ACAD. V.PRES, 66-, dean Whittemore Sch. Bus. & Econ, 62-66. Consult, Northeast. Res. Found, 60; pre-legis. conf, Maine, 60; Conserv. Found, 61. Mem, sub-cmt. eval. standards, Northeast. Resources Cmt, 61. U.S.N.R, 45-46. Econ. Asn. Organizational change in institutions of higher education; financing of institutions of higher education; the role of universities in economic development, with comparative study emphasis. Publ: Trend and alternatives in coastal land use, Bowdoin Col, 66; Economic cost of war, Coun. World Affairs, 67; co-auth, Review of regional economic research and planning in New England, U.S. Dept. Commerce, 67. Address: Thompson Hall, University of New Hampshire, Durham, N.H. 03824.

BARLOW, WALTER G(REENWOOD), Econ, Philos, see 10th ed, Soc. & Behav. Vols.

BARLOWE, PROF. RALEIGH, b. Lincoln, Idaho, Nov. 10, 14; m. 41; c. 1. LAND ECONOMICS. B.S, Utah State Agr. Col, 36; M.A, American Univ, 39; U.S. Dept. Agr. Grad. Sch, 38-40; Ph.D, Wisconsin, 46. Asst, Library of Cong, 37-40; Wisconsin, 40-42; asst. land economist, Southwest. Land Tenure Res. Proj, Ark, 42-43; agr. economist, bur. agr. econ, U.S. Dept. Agr, 43-47, 48-55; Food & Agr. Orgn, UN, 47; from lectr. to prof. agr. econ, MICH. STATE, 48-59, PROF. RES. DEVELOP. & HEAD DEPT, 59- Instr, American Univ, 37-38. Consult, Univ. Puerto Rico, 57; Govt. Colombia, 59; Outdoor Recreation Resource Rev. Cmn, 61; Pub. Land Law Rev. Cmn, 66; Univ. Nigeria, 67. Chmn, Mich. Natural Resources Coun, 63-65; mem, Mich. Governor's Task Force on Water, 64-66. Econ. Asn; Farm Econ. Asn; Soil Conserv. Soc; Agr. Hist. Soc; Econ. Hist. Asn; Int. Asn. Agr. Econ. Resource development; natural resource policy; area planning. Publ: Co-auth, Land problems and policies; Land resource economics. Address: 907 Southlawn, East Lansing, Mich. 48823.

BARMACK, PROF. JOSEPH E, b. New York, N.Y, Sept. 20, 10; m. 35; c. 2. PHYSIOLOGICAL PSYCHOLOGY. B.S, City Col. New York, 30, M.S, 31, fel, 31-34; Ph.D.(psychol), Columbia, 37. Instr. PSYCHOL, CITY COL. NEW YORK, 38-46, asst. prof, 46-49, assoc. prof, 49-54, PROF, 54-, CHMN. DEPT, 63- Asst. proj. dir. biomech. div, Psychol. Corp, 47-48; res. dir, Dunlap & Assocs, 48-54, asst. v.pres, 54-60. Consult. behav. sci. res, Inst. Defense Anal, 62-; res. prog. behav. sci. manned orbital lab. prog, Aerospace Corp, 66-; Inst. Naval Studies, Center Naval Anal, 67- U.S.A.F, 42-46, Res, 46-60, Lt. Col. Fel. Psychol. Asn; Gerontol. Soc; Asn. Pub. Opinion Res. Human engineering; psychophysiology of boredom; motivation and accident research; behavioral science research relevant to military psychological operations. Publ: Boredom and other factors in the physiology of mental effort, Arch. Psychol; co-auth, Human factors problems in computer-generated graphic displays, Inst. Defense Anal, 4/66. Address: 720 Claflin Ave, Mamaroneck, N.Y. 10543.

BARMETTLER, PROF. EDMUND R, b. Stans, Switz, Jan. 29, 22; U.S. citizen. AGRICULTURAL ECONOMICS. B.S, California, Davis, 52, M.Ed, 53; Ph.D. (agr. econ), Ohio State, 58. Teacher, pub. sch, Calif, 53-56; asst. prof. AGR. ECON, Nevada, 58-62; assoc. prof, Hawaii, 62-67; PROF, NEVADA, 67- Agr. Econ. Asn. Publ: Feeding a growing world population, Hawaiian Acad. Sci, 64; Land use policy issues in outdoor recreation. Address: Division of Agricultural Economics & Education, Max C. Fleischmann College of Agriculture, University of Nevada, Reno, Nev. 89507.

BARNARD, DR. BERNARD L(ESTER), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BARNARD, BILLINGS, b. Abilene, Tex, Apr. 30, 26; m. 47. ECONOMICS. B.A. & B.J, Texas, 52; M.A, 59. Ed, Alice News, Tex, 52-54; Gulf Pub. Co, Tex, 54-56; consult, Gulf Pub. Co, Tex. & M.W. Kellogg Co, N.Y, 56-57; ed, Martin-Marietta Co, Colo, 58-60; Gen. Dynamics Corp, Calif, 60-65; Stanford Res. Inst, Calif, 65-67; ECONOMIST, FED. RESERVE BANK CHICAGO, 67- AAAS; Econ. Asn; Asn. Evolutionary Econ. Economic development; value theory. Publ: Planning for democracy: policy making in an industrial economy, Univ. Texas, 58; Atlas missile system: final engineering report, U.S. Air Force, 64; Postwar refinery construction, In: Petroleum refiner. Address: 13 E. Scotdale Rd, La Grange Park, Ill. 60525.

BARNARD, PROF. FREDERIC MECHNER, b. Ostrava, Czech, Jan. 25, 21; m. 51; c. 1. POLITICAL SCIENCE, ECONOMICS. B.A, Oxford, 47, D.Ed, 48, M.A, 51; Ph.D.(polit. sci), Leicester, 62. Lectr. econ. & polit. sci, Tech. Col. & Univ. Leicester, 49-59; sr. lectr, Univ. Salford, 59-64; assoc. prof. POLIT. SCI, Saskatchewan, Regina, 64-65; PROF, SASKATOON, 65- German Acad. Exchange Serv. fel, 63-64; Humboldt sr. res. fel, 64; Can. Coun. summer sr. res. fels, 65 & 67. Brit. Army, 44-45. Can. Polit. Sci. Asn. Analysis of political ideas; political theory; political sociology; emergence of nationalism; bureaucracy; mass society. Publ: Herder's social and political thought, Oxford Univ, 65; Thomasius: enlightenment and bureaucracy, Am. Polit. Sci. Rev, 65; Metaphors, laments and the organic community, Can. J. Econ. & Polit. Sci, 66. Address: Dept. of Political Science, University of Saskatchewan, Saskatoon, Sask, Can.

BARNARD, DR. JAMES WILLIAM, b. New York, N.Y, June 11, 32; c. 3. PSYCHOLOGY. B.A, Middlebury Col, 55; M.A, Vermont, 58; M.S, Yale, 60, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, Minnesota, 62-64; ASSOC. PROF, GEORGE PEABODY COL, 64-, Kennedy vis. prof, 65-66. AAAS; Asn. Ment. Deficiency; Psychol. Asn; Soc. Res. Child Develop. Cognitive development in childhood. Publ: Co-auth, Anxiety and verbal behavior in children, 61 & auth, Effects of anxiety on connotative meaning, 66, Child Develop; co-auth, Bias in teachers ratings of student personality traits, J. Ed. Psychol, 68. Address: Dept. of Psychology, Box 163, George Peabody College for Teachers, Nashville, Tenn. 37203.

BARNARD, DR. JERALD R, b. Deweyville, Utah, July 4, 33; m. 60; c. 2. ECONOMICS. B.S, Utah State, 59, M.S, 61; Ph.D.(econ), Iowa State, 65. Res. assoc. ECON, Iowa State, 63-65; ASST. PROF, IOWA, 65- Consult. state econ. accounts, Univ. Kentucky, 67- U.S.A, 53-55. Econ. Asn; Agr. Econ. Asn.(merit award, 66). Regional and urban economic development. Publ: Co-auth, Simulation of regional product and income with emphasis on Iowa, 1954-1974, Iowa State Univ, 66; auth, Design and use of social accounting systems in state development planning, Univ. Iowa, 67; co-auth, Recursive economic systems in rural-urban development, J. Farm Econ, 64. Address: Dept. of Economics, University of Iowa, Iowa City, Iowa 52240.

BARNARD, ROBERT CURRIE, Econ. Geog, see 10th ed, Soc. & Behav. Vols.

BARNES, DR. CHARLES ADAMS, b. Managua, Nicaragua, Mar. 6, 17; U.S. citizen; m. 44; c. 1. CLINICAL PSYCHOLOGY. B.A, California, Los Angeles, 41; Ph.D, Southern California, 49. Instr. psychol, Arizona State, 49-50; asst. prof, Arizona, 50-55; Oregon State, 55-57; U.S. Pub. Health Serv. fel, Menninger Found, Kans, 57-58; CLIN. PSYCHOLOGIST, Pac. State Hosp, Calif, 58-59; PATTON STATE HOSP, 59- U.S. Pub. Health Serv. res. fel, Southern California, 49-50. Consult, orthogenic clin, Pomona Col, 59-61. Sig.C, U.S.A, 43-45, Sgt. Psychol. Asn. Meaning of color responses to Rorschach; empirical study of psychotics' dreams; development of brief tests to yield intelligence quotient and comparison of verbal with abstract reasoning scores; scientific investigations of culture and personality. Publ: Statistical study of psychoanalytic concepts of psychosexual development, Genetic Psychol. Monogr. Address: 2805 N. Lawrence Ave, San Bernardino, Calif. 92404.

BARNES, DR. CYRUS (WALLACE), Sci. Ed, see 11th ed, Phys. & Biol. Vols.

BARNES, DR. ELINOR J(ULIA), b. Newark, Ohio, Feb. 25, 02. INDUSTRIAL PSYCHOLOGY. B.Sc, Ohio State, 22, M.A, 29, Ph.D.(psychol), 31. Prof. psychol, Otterbein Col, 30-31; head dept, Beaver Col, 31-42; field dir, mkt. & soc. res. div, Psychol. Corp, 42-49, asst. dir, 49-61; RES. SPECIALIST, DIV. ECON. & BUS. RES, COL. BUS. & PUB. ADMIN, ARIZONA, 61- Pres, Ariz. Res. Assoc, 63; Chmn, Grad. Cmt. Geront, 67- Private practice, 61- Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Fel. Psychol. Asn; Mkt. Asn. Marketing, media and educational research. Address: 5307 E. Linden Place, Tucson, Ariz. 85716.

BARNES, DR. E(UGENE) H(UME), b. Kansas City, Mo, Jan. 28, 20; m. 49; c. 1. PSYCHOLOGY. A.B, William Jewell Col, 47; fel, State Col. Wash, 47-48, M.S, 49; Ph.D.(psychol), Northwestern, 54. Head counsr, State Col. Wash, 48-49; asst. psychol, Yale, 49-50; instr. ed. & psychol, New Haven State Teachers Col, 50; counseling psychologist, Vet. Admin. Hosp, Downey, Ill, 54-56; psychologist, Rohrer, Hibler & Replogle, 56-58; v.pres. & dir, Nat. Accts. Syst, Inc, 58-62; CLIN. PSYCHOLOGIST, U.S. NAVAL TRAINING CENTER, GREAT LAKES, 62- Lectr, Northwestern, 54-56. U.S.N, 42-46, 51-52. Psychol. Asn. Test construction; management psychology. Publ: Barnes on credit and collection; Relationship of biased test responses to

psychopathology, J. Abnorm. & Soc. Psychol; Factors, response bias, and the MMPI, J. Consult. Psychol. Address: 1149 Benson Lane, Libertyville, Ill. 60048.

BARNES, PROF. GERALD W(RIGHT), b. Ark, Jan. 11, 26; m. 53; c. 2. PSYCHOLOGY. B.A, Arkansas, 49, M.A, 51; fel, Indiana, 53-54, Ph.D.(psychol), 55. Instr. psychol, Maine, 54-55, asst. prof, 56-59, assoc. prof, 59-60; Arkansas, 60-64; CLIN. PSYCHOLOGIST, FT. ROOTS VET. ADMIN. HOSP, 64- U.S.A.A.F, 45-47. AAAS; Psychol. Asn. Statistics; neuropsychology, Publ: Conditioned stimulus intensity and temporal factors in spaced-trial classical conditioning; Reinforcing properties of the onset of auditory stimulation; Stimulus complexity and sensory reinforcement. Address: Ft. Roots Veterans Administration Hospital, North Little Rock, Ark. 72114.

BARNES, DR. KATHARINE F(AY), b. Minneapolis, Minn, Nov. 3, 16; m. 49; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Minnesota, 38, M.A, 39, Ph.D. (ed), 50. Instr. ed. & dir. reading clin, State Col. Wash, 48-49; asst. prof. ed. & psychol, New Haven State Teachers Col, 49-51; reading consult. & psychologist, Waukegan Sch. Dist, Ill, 51-56; PSYCHOLOGIST, N.CHICAGO COMMUNITY HIGH SCH, 56- Lectr, Northwestern, 52-54. Psychol. Asn. Reading; child behavior problems. Publ: Methods of increasing competence in interpreting social-studies materials in grades four to six, Suppl. Ed. Monogr; Liaison, libraries and learning, Int. Library Asn. Record; A realistic approach to grading, Clearing House, 4/62. Address: 1149 Benson Lane, Libertyville, Ill. 60048.

BARNES, DR. LEO, b. Denver, Colo, Nov. 12, 10. BUSINESS ECONOMICS. B.S.S, City Col. New York, 31; Hopkins, 31-32, 34-36; A.M, Brown, 33; Ph.D, New Sch. Soc. Res, 48. Dir. econ. res, Res. Inst. Am, 44-46; chief economist, Prentice-Hall, Inc, 46-62, asst. v.pres, 61-62; vis. prof. econ, City Univ. New York, 63-65; PROF. & CHMN. DEPT. FINANCE & INVESTMENTS, HOFSTRA, 65- Lectr, sch. bus. admin, Rutgers, 47; New Sch. Soc. Res, 48-; participant, Ford Found. workshop bus. finance, grad. sch. bus. admin, Harvard, summer 65. Econ. Asn; Finance Asn; Statist. Asn; Asn. Bus. Econ. Business cycles and practices; economic forecasting; investments. Publ: Your investments; Your buying guide to mutual funds and investment companies; co-auth, Encyclopedia of stock market techniques. Address: 473 West End Ave, New York, N.Y. 10024.

BARNES, PROF. LOUIS BYINGTON, b. St. Paul, Minn, Aug. 6, 28; m. 51; c. 4. PSYCHOLOGY, SOCIOLOGY. B.A, Amherst Col, 50; M.B.A, Harvard, 52, D.B.A.(orgn. behav), 58. Instr. Sloan Sch. Mgt, Mass. Inst. Tech, 52-56; res. assoc. ORGN. BEHAV, HARVARD BUS. SCH, 56-58, asst. prof, 58-63, assoc. prof, 63-67, PROF, 68- Psychol. Asn; Sociol. Asn; Soc. Appl. Anthrop. Organization and group development; conflict resolution. Publ: Organizational systems and engineering groups, Harvard Div. Res, 60; co-auth, Organizational behavior and administration, Irwin-Dorsey, 61 & Methods of organizational research, Univ. Pittsburgh, 67. Address: Humphrey 32, Harvard Business School, Boston, Mass. 02163.

BARNES, DR. MARGARET R(OWLANDS), b. West Homestead, Pa, Mar. 4, 06; m. 29; c. 1. PSYCHOLOGY. B.A, Western Reserve, 27, fel, M.A, 28, Ph.D. (psychol), 38. Clin. psychologist, Univ. Hosps, 37-41, consult. dietary dept, 38-59, nursing dept, 41-43, 47; psychologist, Hathoway-Brown Sch, 44-63; STAFF PSYCHOLOGIST, CLEVELAND COL, CASE WESTERN RESERVE, 66-, lectr, grad. sch, 37-40, Flora Stone Mather Col. & Adelbert Col, 38-39. Consult, Am. Col. Hosp. Admin, 43-44; South Euclid-Lyndhurst City Schs, 50-65. Psychol. Asn. Rating scales; factors affecting school success. Address: 1535 Clubside Rd, Cleveland, Ohio 44124.

BARNES, DR. MELVIN W(ALLACE), b. Milanville, Pa, Jan. 21, 10; m. 35; c. 2. EDUCATIONAL PSYCHOLOGY. M.S, Illinois, 34, Ph.D, 41. Exam. technician, Illinois, 40-43; dir. training, U.S. Dept. Justice, 43-46; adult ed, pub. schs, San Diego, Calif, 46-49; asst. supt. in charge instr, pub. schs, Oklahoma City, Okla, 49-57, supt, 57-61; SUPT. SCHS, PORTLAND, ORE, 61- Mem, Nat. Cmt. on Assessment Ed. & Ed. Policies Cmn, 64- Psychol. Asn. Learning; leadership. Publ: Nature and nurture of early adolescents; Building school-university relations in teacher education, In: Improving teacher education in the U.S, Phi Delta Kappa, 66; Planning and effecting needed changes in urban and metropolitan areas, In: designing education for the future, Citation, 67. Address: 631 Northeast Clackamas St, Portland, Ore. 97208.

BARNES, PROF. ROBERT RAYMOND, b. Philadelphia, Pa, Jan. 26, 34; m. 60; c. 6. ECONOMICS. B.A, Franklin & Marshall Col, 55; M.A, Pennsylvania, 57, 60-61. Instr. econ, Pennsylvania, 55-57, 60-61; dir. instnl. res, Franklin & Marshall Col, 61-63; ASSOC. PROF. ECON, MILLERSVILLE STATE COL, 63-, ACTING CHMN. DEPT, 67- U.S.A.F, 57-59, Res, 55-57, 59-67, Capt. Econ. Asn. Economic theory; money and banking; international trade. Publ: Co-auth, Study guide workbook for Bye's principles of economics, Appleton, 57. Address: Dept. of Economics, Millersville State College, Millersville, Pa. 17551.

BARNES, DR. SAMUEL H(ENRY), b. Miss, Jan. 20, 31; m. 54; c. 3. POLITICAL SCIENCE. B.A, Tulane, 52, M.A, 54; Ph.D, Duke, 57. Asst. prof. POLIT. SCI, MICHIGAN, 57-64, assoc. prof, 65-68, PROF, 68- Fulbright prof, Florence, 62-63 & Rome, 67-68. U.S.N, 49-50. Polit. Sci. Asn. Comparative politics of Western societies. Publ: Party democracy, Yale Univ, 67; contrib, Polit. oppositions in western democracies, Yale Univ, 66 & Leadership in industrial societies, Wiley, 67. Address: 1649 Hillridge Blvd, Ann Arbor, Mich. 48103.

BARNET, DEAN EDWARD M(ALCOLM), b. Brookline, Mass, May 29, 12; m. 36; c. 1. MARKETING. B.S, Harvard, 34, M.B.A, 36; Ph.D.(mkt), Columbia, 54; Ph.D.(mkt), Hawaii, 54. Dept. mgr, Marshall Field & Co, 36-42; asst. to pres, Saco-Moc Shoe Corp, 45-47; asst. prof. & acting chmn. dept. bus. orgn. & finance, Buffalo, 47-50; from instr. to assoc, Columbia, 50-54; coordinator exec. prog, Arden House, 52, asst. dean grad. sch. bus, 53-54; prof. mkt, Northwestern, 54-59; prof. bus. admin. & dir. exec. develop. progs, Mich. State, 59-65; PROF. MKT. & MGT, COL. BUS, HAWAII, 65-, DEAN COL. BUS. ADMIN, 68-, dean sch. travel indust. mgt, 65-68. Exec. develop. consult, 51-; v.pres. planning, Kitchens of Sara Lee Inc, Ill, 63-65; adv, Pac. Area Travel Asn, 65-; mem. bd. dirs, Hawaii Visitors Bur, 65- U.S.A, 42-45, Maj; Bronze Star Medal. Mkt. Asn. Mass marketing management; volume distribution; retailing; management. Publ: Innovate or perish; Consumers cocktail-U.S.A-the exploding discount house—with bitters, Mich. State Bus. Topics, 63; Travel industry institutions meld into market system among Pacific area nations, Proc. Am. Mkt. Asn, 66. Address: College of Business Administration, University of Hawaii, Hawaii Hall, 2500 Campus Rd, Honolulu, Hawaii 96822.

BARNETT, PROF. A. DOAK, b. Shanghai, China, Oct. 8, 21; m. 54; c. 3. POLITICAL SCIENCE. B.A, Yale, 42, M.A, 47; LL.D, Franklin & Marshall Col, 67. Fel, Inst. Current World Affairs, 47-49; consult, Econ. Coop. Admin, D.C, 50-51; consul, pub. affairs off, Am. Consulate-Gen, Hong Kong, 51-52; assoc, Am. Univs. Field Staff, Asian aress, 53-56; head dept. for. area studies, For. Serv. Inst, U.S. Dept. State, 56-57; consult, Nat. Planning Asn, D.C, 57-58; res. fel. Coun. For. Rels, 58-59; prog. assoc, Ford Found, 59-61; PROF. GOVT, COLUMBIA, 61- Correspondent, Chicago Daily News, 47-49 & 53-56; field researcher, Louis Harris & Assocs. & Maxwell Sch, Syracuse Univ, 57. Consult, U.S. Govt. & various companies & founds. Trustee, Shanghai Am. Sch. Mem, Joint Cmt. Contemporary China, Soc. Sci. Res. Coun. & Am. Coun. Learned Socs; Cmt. Chinese Econ, Soc. Sci. Res. Coun; steering cmt, Proj. U.S. & China in World Affairs, Coun. For. Rels; Liaison Cmt. Study Contemporary China; bd. dirs, Nat. Cmt. U.S-China Rels; Adv. Panel China, U.S. Dept. State; chmn. Contemporary China Studies Cmt, mem. exec. cmt, E.Asia Inst. & mem. admin. bd, Res. Inst. Communist Affairs, Columbia; mem. E.Asian Vis. Cmt, bd. overseers, Harvard; adv. cmt, soc. sci. surv. res. center, Chinese Univ. Hong Kong; Int. Cmt. Chinese Studies; Corp. of United Bd. Christian Higher Ed. in China; study cmn. dynamic faators of competition & coop, dept. int. affairs, Nat. Coun. Churches; bd. gov, Inst. Current World Affairs. U.S.M.C, 42-46, Capt. Polit. Sci. Asn; Asn. Asian Studies; For. Policy Asn. Comparative and Chinese politics; foreign policy. Publ: Communist China, the early years: 1949-1955, Praeger, U.S. & Pall Mall, Eng, 64; China after Mao, Princeton, 67; Cadres, bureaucracy, and political power in Communist China, Columbia, 67. Address: East Asian Inst, Columbia University, New York, N.Y. 10027.

BARNETT, DR. ABRAHAM N, b. Brooklyn, N.Y, Apr. 1, 21; m. 48; c. 2. SOCIOLOGY. B.A, Brooklyn Col, 49; N.Y. Univ, 49-54; M.A, Columbia, 52; Ph.D.(sociol), Purdue, 65. ASSOC. PROF. SOCIOL. & DIR. SOCIOL. RES. LAB, INDIANA STATE, 64- Purdue res. grant. Consult, Purdue Radio Sta, Negro Proj, 58-59; Richmond State Hosp, 66; Logansport State Hosp, 66-67. U.S.A.F, 41-45, Sgt. Sociol. Asn; Statist. Asn. Statistics; methodology; medical sociology; theory. Publ: Co-auth, Purdue library attitude survey, Purdue Libraries, 64; auth, Beyond librarianship, a critique of rationales of special library services to the aged, Library Quart, 61; Dimensions of the engineer's role-set: a factor-analytic study of an occupational social form, Multivariate Behav. Res, 4/68. Address: Sociology Research Lab, Indiana State University, Terre Haute, Ind. 47809.

BARNETT, PROF. ALBERT, b. Brush Creek, Tenn, Nov. 1, 86; m. 18; c. 3. PSYCHOLOGY, EDUCATION. B.S, George Peabody Col, 16, A.M, 17, Gen. Ed. Bd. fel, 23-24, Ph.D.(agr. ed), 26; Arizona, 23. Prof. agr, Tenn. Polytech, 16-19; assoc. prof. agr. ed, Clemson Col, 19-20; itinerant teacher trainer, Tennessee, 20-22; supvr, State Dept. Ed, Ariz, 22-25; prof. ed, W.Tex. State Teachers Col, 25-33; ed. & psychol, TEX. TECH. COL, 33-65, asst. dean div. arts & sci, 39-45, dir. testing & counseling center, 47-58, EMER. PROF. ED. & PSYCHOL, 65- Asst. prof, Arizona, 22-23; vis. prof, George Peabody Col, 30. AAAS. Agricultural education; psychological testing of college students. Publ: Co-auth, The agricultural teacher's annual plan of work, Bull, Clemson Agr. Col; Outlining the course of study by means of the farm survey, Bull, Univ. Tennessee; A note on the mechanical aptitude of West Texans, J. Appl. Psychol. Address: Dept. of Psychology, Texas Technological College, Lubbock, Tex. 79409.

BARNETT, DR. CLIFFORD R(OBERT), Cultural Anthrop, see 10th ed, Soc. & Behav. Vols.

BARNETT, DR. GORDON J(AMES), b. Upton, Maine, Mar. 13, 21; m. 43; c. 3. PSYCHOLOGY, PSYCHOANALYSIS. B.S, New Hampshire, 44; M.A, Columbia, 45, Ph.D.(psychol), 50; dipl, William Alanson White Inst. Psychiat, 61. Staff clin. psychologist, ment. hyg. clin. Vet. Admin, New York, N.Y, 49-52, supv. clin. psychologist, 52-55, asst. chief clin. psychologist, psychiat. & neurol. unit, 55-57; PSYCHOANALYST, 57- Supvr. psychother, postdoctoral training prog. psychother, Adelphi, 62- U.S.A.A.F, 42-43. Psychol. Asn; Acad. Psychother. Psychoanalytic psychology; level of aspiration. Publ: Intensive insulin sub-coma treatments combined with group therapy in a mental hygiene clinic, Diseases of Nervous Syst; Group psychotherapy as an adjunct to insulin sub-coma and treatment, Int. J. Group Psychother; co-auth, Occupational level scale as a measure of drive, Psychol. Monogr. Address: 69 Washington Ave, Garden City, N.Y. 11530.

BARNETT, PROF. HAROLD J(OSEPH), b. Paterson, N.J, May 10, 17; m. 40; c. 3. ECONOMICS. B.S, Arkansas, 39; M.S, California, Berkeley, 41; Soc. Sci. Res. Coun. fel, Harvard, 47-48, M.A, 48, Ph.D.(econ), 52. Teaching asst, California, Berkeley, 39-40; asst. economist, U.S. Treas. Dept, 40-42; asst. chief, German & Austrian econ. affairs, U.S. Dept. State, 45-46; tech. adv, U.S. Dept. Interior, 48-52; head econ. staff, Rand Corp, D.C, 52-55; dir. econ. growth studies, Resources for Future, 55-59; prof. econ, Wayne State, 59-63, chmn. dept, 59-61; PROF. ECON, WASHINGTON (ST. LOUIS), 63-, chmn. dept, 63-66. Guest lectr, various univs, 52-; prof. lectr, George Washington, 53-54 & 58-59. Consult, Rand Corp, 48-; U.S. Joint Chiefs Staff & Weapons Systs. Eval. Group, 49, 51; President's Mat. Policy Cmn, 50-51; President's Cabinet Cmt. Energy Policy, 54-55; Resources for Future, 59-; Nat. Sci. Found, 65-67; U.S. Pub. Health Serv, 66-; U.S. Off. Ed, 66-; Cmt. Econ. Develop, 66- U.S.A, 42-45. Econ. Asn; Regional Sci. Asn; Economet. Soc. Communication economics; economic development; output projections. Publ: Co-auth, Scarcity and growth, Johns Hopkins, 63 & 65 & Economics of wired city television, RFF-Brookings, 67; auth, Research and development, economic growth, and national security, Ann. Am. Acad. Polit. & Soc. Sci. & Resources for Future pamphlet, 60. Address: 51 Crestwood Dr, Clayton, Mo. 63105.

BARNETT, PROF. H(OMER) G(ARNER), b. Bisbee, Ariz, Apr. 25, 06; m. 41; c. 2. ANTHROPOLOGY. A.B, Stanford, 27; Ph.D.(anthrop), California, 38. Instr. ANTHROP, New Mexico, 39; OREGON, 39-42, asst. prof, 42-46, assoc. prof, 46-50, PROF, 50-, acting chmn. dept, 40-41, 49-50, 58. Asst. curator, Ore. State Mus. Anthrop, 39-50; dir, Jemez Archaeol. Field Sch, 39; anthropologist, Smithsonian Inst, 44-46; fel, Coord. Invest. Micronesian Anthrop, 47-48; staff anthropologist, Trust Territory Pac. Islands, 51-53; vis. prof, Harvard, 54; Columbia, 57; Hawaii, 58 & 67; British Columbia, 60; sr. fel, Nat. Sci. Found, 56-57; fel, Center Adv. Study in Behav. Sci, 64-65. Consult, Netherlands New Guinea Govt, 55. Chmn. summer seminar, Soc. Sci. Res. Coun, 53. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop.(pres, 61); fel. Ethnol. Soc; Soc. Hist. Tech. Ethnology of North America and Oceania; processes and innovation of cultural and social change. Publ: Innovation the basis of culture change; Anthropology in administration; Indian shakers. Address: Dept. of Anthropology, University of Oregon, Eugene, Ore. 97403.

BARNETT, DR. IRVING, b. Scranton, Pa, Apr. 2, 24; m. 57. PSYCHOLOGY. B.A, Pennsylvania, 45, M.A, 46; Ph.D, Pittsburgh, 50. Psychologist, Mayview State Hosp, Pa, 46-48; asst. & lectr. psychol, Pittsburgh, 49; instr. & clin. counsr, Iowa, 50-51; clin. psychologist, Brooklyn Outpatient Clin, Vet. Admin, 51-54; instr. psychol, Brooklyn Col, 54-55; asst. prof. psychol. & coordinator guid. center, Long Island, 55-56; clin. psychologist, BROOKLYN OUTPATIENT CLIN, VET. ADMIN, 56-63, CHIEF TRAINING UNIT, PSYCHOL. DIV, 63- Private practice, 54-; assoc. clin. dir, Asn. Psychiat. Treatment of Offenders Clin, 57-62. U.S.A.A.F, 42. Psychol. Asn; Asn. Psychiat. Treatment of Offenders (co-ed, J. Offender Ther, 61-). Projective techniques; psychotherapy; crime and delinquency. Publ: Use of Z scores on the Wechsler-Bellevue tests, J. Clin. Psychol; Involving the offender in therapy, J. Offender Ther. Address: Brooklyn Outpatient Clinic, Veterans Administration, 35 Ryerson St, Brooklyn, N.Y. 10405.

BARNETT, PROF. IRVING, b. New York, N.Y, Oct. 25, 18; m. 52; c. 3. ECONOMICS, INTERNATIONAL RELATIONS. B.A, Yale, 38; LL.B, Columbia, 41, Ph.D.(int. rel. & law), 56; cert, Harvard, 43. Economist-lawyer, Nat. Resources Planning Bd, D.C, 41-42; field officer, UNRRA, China, 45-47; dir. tech. asst. prog, Am. Friends Serv. Cmt, 51-53; asst. prof. econ, Haverford Col, 53-54; assoc. prof, Washington Col, 55-66, dir. int. studies prog, 58-66; PROF. ECON.(ASIA), STATE UNIV. N.Y. COL. NEW PALTZ, 66- Fulbright lectr, Andhra, India, 65-65. Consult, bur. soc. affairs, UN, 57-59, participant, study community & econ. develop. Med.C, U.S.A, 42-45. Econ. Asn; Asn. Asian Studies; Soc. Int. Develop; Asn. Comp. Econ. Problems of economic development and policies of assistance to underdeveloped countries, with emphasis on the role of the United Nations, particularly in East and South Asian countries. Publ: UNNRA in China: a case study of financial assistance to an underdeveloped country. Address: Division of Area Studies and Geography, State University of New York at New Paltz, New Paltz, N.Y. 12561.

BARNETT, PROF. JAMES H(ARWOOD), b. Owensboro, Kt, Oct. 9, 06. SOCIOLOGY. A.B, Berea Col, 28; A.M, Pennsylvania, 30, Ph.D, 39. PROF. SOCIOL, CONNECTICUT, 48- Exec. secy. small grants cmt, res. grants br, Nat. Inst. Ment. Health, 63-65. Fel. Sociol. Asn. Sociology of the arts; history of social thought. Publ: American Christmas; Divorce and the American divorce novel from 1858 to 1937; Sociology of art, In: Sociology today, 59. Address: Dept. of Sociology and Anthropology, University of Connecticut, Storrs, Conn. 06268.

BARNETT, DR. LARRY DAVID, b. Los Angeles, Calif, June 12, 40; m. 63. SOCIOLOGY. B.A, California, Los Angeles, 61; M.S, Oregon State, 62; U.S. Pub. Health Serv. fel. & Ph.D.(sociol), Fla. State, 65. ASST. PROF. SOCIOL, Omaha, 65-67; Northern Arizona, 67-68; CALIF. STATE COL. LOS ANGELES, 68- Proj. dir, U.S. Dept. Labor res. grant, 66-67; summer instr, Manitoba, 67. Mem. family planning adv. cmt, Ariz. State Dept. Health, 67-Sociol. Asn. Methodology and demography. Publ: Interracial marriage in California, Marriage & Family Living, 11/63; auth, The kibbutz as a child-rearing system: a review of literature, 8/65 & co-auth, Work orientations of urban, middle-class married women, 2/68, J. Marriage & Family. Address: Dept. of Sociology, California State College at Los Angeles, Los Angeles, Calif. 90032.

BARNETT, DR. MALCOLM JOEL, b. New York, N.Y, Dec. 26, 41. POLITICAL SCIENCE. A.B, Columbia, 63; Woodrow Wilson fel, Princeton, 63-64; Leverhulme fel. & Ph.D.(polit), London, 67. Tutor polit, London Sch. Econ, 66-67; H.M. For. Off, 67; Woodrow Wilson teaching fel. POLIT. SCI, Miles Col, 67-68; ASST. PROF, KANSAS, 68- Am. Polit. Sci. Asn; Royal Inst. Pub. Admin. Comparative politics, western Europe, Britain, English-speaking Africa; legislative process; comparative policy. Address: Dept. of Political Science, University of Kansas, Lawrence, Kans. 66044.

BARNETT, DR. MARTHA V, b. Princeton, N.J, July 12, 17; m. 41, 63; c. 4. ECONOMICS. A.B, Bryn Mawr Col, 39; scholar, Columbia, 39-41, M.A, 40, Ph.D.(econ), 54; fel, Smith Col, 41-42. Exec. dir, Hudson Shore Labor Sch, 43-45; instr. econ, Wellesley Col, 46-47; Smith Col, 47-50, asst. prof, 50-54; Washington Col.(Md), 54-55, assoc. prof. & chmn. dept. econ. & sociol, 55-59, vis. lectr, ECON, 65-66; assoc. prof, Goucher Col, 59-65; VIS. LECTR, VASSAR COL, 67- Vis. summer lectr, State Univ. N.Y. Col. New Paltz, 67. Econ. Asn; Indust. Rels. Res. Asn; Econ. Hist. Asn. Economic history; labor economics; industrial organization. Publ: History of the cutlery industry in Connecticut Valley; collab, Vertical integration in the broiler industry on the Delmarva Peninsula. Address: 27 Dug Rd, New Paltz, N.Y. 12561.

BARNETT, DR. MILTON L(EONARD), Anthrop, see 10th ed, Soc. & Behav. Vols.

BARNETT, ROBERT W(ARREN), b. Shanghai, China, Nov. 6, 11. ECONOMICS, HISTORY. A.B, North Carolina, 33, A.M, 34; B.A, M.A. & B.Litt, Oxford, 36-37; Rockefeller fel, Inst. Pac. Rels, 37-41. Adv, Far East. Cmn, U.S. DEPT. STATE, 45-49, officer in charge econ. affairs, Off. China Affairs, 49-52, econ. adv, Off. West. European Affairs, 52-54, officer in charge, European Econ. Orgn, 54-56, counsr, U.S. Embassy, The Hague, 56-59, counsr. for Common Mkt, U.S. Mission European Communities, Brussels, 60-61, DEP. ASST. SECY. STATE, FAR EAST, 63- Far East fel, Harvard, 59-60. Asn. Asian Studies; Polit. Sci. Asn; Coun. For. Rels. U.S.A.A.F, 43-45. Far East economics and history. Publ: Economic Shanghai: hostage to politics; Economic aspect of occupied Japan; Quemoy: the use and consequence of nuclear deterrence. Address: U.S. Dept. State, 21st & Virginia Ave, Washington, D.C. 20520.

BARNETTE, PROF. HENLEE H(ULIX), b. Taylorsville, N.C, Aug. 14, 11; m. 43; c. 4. SOCIOLOGY. A.B, Wake Forest Col, 40; Th.M, South. Baptist Theol. Sem, 43, fel, 43-46, Th.D, 48; Columbia, 54. Asst. prof. sociol, Howard Col, 46-47; PROF. relig. & sociol, J.B. Stetson, 47-52; ETHICS & SOCIOL, SOUTH. BAPTIST THEOL. SEM, 52-, acting dean, sch. theol, 56-58. Carnegie res. grant, 50; Am. Asn. Theol. Schs. faculty fel, Harvard, 59-60. AAAS; Sociol. Asn; Soc. Sci. Study Relig. Church and social problems; Christian ethics; race relations in the South; contemporary communism; methodology in social ethics. Publ: An introduction to Communism, 63 & Christian calling and vocation, 64, Baker Book House; The new theology and morality, Westminster, 67. Address: 2909 Meadow Lark Ave, Louisville, Ky. 40206.

BARNETTE, DR. W(ARREN) LESLIE, JR, b. LeRoy, N.Y, July 8, 10. PSYCHOLOGY. B.A, Buffalo, 32, M.A, 36; Ph.D, N.Y. Univ, 49. Instr. psychol, Pace Col, 36-42; N.Y. Univ, 46-50; DIR. COUNS, STATE UNIV. N.Y. BUFFALO, 50-, PROF. PSYCHOL, 58-, assoc. prof, 54-58. Vis. Fulbright prof, India, 52-53, 64-65; lectr. & consult, UNESCO, Mid. East, 53. U.S.A.A.F, 42-44; Off. Strategic Serv, 44-46, 1st Lt. Fel. Psychol. Asn. Psychological counseling; aptitude testing; vocational guidance. Publ: Ed, Readings in psychological tests and measurements, Dorsey, 65; auth, Occupational aptitude patterns of selected groups of counseled veterans, Psychol. Monogr; Review of research with psychological tests in India, Psychol. Bull. Address: 1392½ Amherst St, Buffalo, N.Y. 14216.

BARNHART, DR. DONALD STANFORD, b. St. Louis, Mo, July 18, 25; m. 49; c. 3. ECONOMICS, HISTORY. A.B, San Diego State Col, 49; M.A, Chicago, 50, Ph.D.(hist), 53; Nat. Univ. Colombia, 51. Asst. prof. hist. & polit. sci, Simpson Col, 53-56; assoc. prof. hist, West Virginia, 56-59; lectr. econ, Pennsylvania, 59-60; ASSOC. PROF. SOC. SCI, SAN FRANCISCO STATE COL, 60- Fulbright lectr, Univ. of the Andes, Colombia, 65. U.S.N.R, 43-46. Asn. Latin Am. Studies; Soc. Int. Develop. Economic development and social change in modern Latin America. Publ: Colombian transport and the reforms of 1931: an evaluation, Hispanic Am. Hist. Rev, 2/58; Analisis Comparativo del desarrollo economico en la American Latina, Desarrollo, 1/66. Address: Dept. of Social Science, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

BARNHART, PROF. EDWARD N(ORTON), b. Berkeley, Calif, Sept. 15, 09; m. 34; c. 2. PSYCHOLOGY. A.B, California, 33, M.A, 34, Ph.D.(psychol), 37. Res. assoc, Cleveland Mus. Art, 37-40; instr. psychol, Reed Col, 40-42; pub. opinion analyst, bur. intel, Off. War Info, 42-43; chief ed. div, presentation br, Off. Strategic Serv, 43-45; from asst. prof. to PROF. SPEECH & LECTR. PSYCHOL, CALIFORNIA, BERKELEY, 45- Supvr. children's classes, Portland Art Mus, 40-42; Guggenheim fel, 49-50. Woodrow Wilson Found. award, 54. Communication; propaganda; internal security programs. Publ: Co-auth, Prejudice, war and the constitution. Address: 43 Eucalyptus Path, Berkeley, Calif. 94705.

BARNHILL, DR. JOHN ALLISON, b. Wetaskiwin, Alta, Mar. 27, 38; m. 65; c. 1. BUSINESS ADMINISTRATION. B.S.B.A, Denver, 60, M.B.A, 62; Ford Found. fel. & D.B.A, Washington (Seattle), 66. Instr. bus. admin, Cent. Mo. State Col, 62-63; Oregon State, 63-64; lectr, Washington (Seattle), 65-66; ASST. PROF. COMMERCE, SIMON FRASER UNIV, 66- Pres. Res. Cmt. res. grant, Simon Fraser Univ, 66-68; vis. prof, Alberta, 68; Nat. Fitness Coun. Can. res. grant, 68. Mkt. Asn. Business management and environmental studies; marketing and consumer behavior theory. Publ: Decision theory, Inst. Chartered Accountants B.C, 68; Responsibility in business, Bus. Quart, 67; Cultural anthropology and marketing, Bus. Rev, 67. Address: Dept. of Economics & Commerce, Simon Fraser University, Burnaby 2, B.C, Can.

BARNLUND, PROF. DEAN C(OLQUITT), b. Milwaukee, Wis, Sept. 13, 20. COMMUNICATIONS, PSYCHOLOGY. B.S, Wisconsin, 42, M.A, 47; Ph.D, Northwestern, 51. Instr. speech, Carroll Col.(Wis), 46-47; Florida, 49-50; asst. prof, Cincinnati, 51-52; from instr. to assoc. prof. group commun, Northwestern, 52-62; PROF. SPEECH, SAN FRANCISCO STATE COL, 62- Guest prof, San Francisco State Col, 62, res. leave, 66; guest prof, Hawaii, 65. U.S.A, 43-46, 1st Lt. Psychol. Asn; Speech Asn. Communication; psycholinguistics; decision-making. Publ: Co-auth, Dynamics of discussion; auth, Interpersonal communication: survey & studies, Houghton, 67; Comparative study of individual, majority and group judgement, J. Abnorm. & Soc. Psychol. Address: 201 Valley St, Sausalito, Calif. 94965.

BARNOUW, PROF. VICTOR, b. The Hague, Netherlands, May 25, 15; U.S. citizen; m. 64. ANTHROPOLOGY. A.B, Columbia, 40, Ph.D.(anthrop), 48. Vis. asst. prof. ANTHROP, Buffalo, 48-51; Illinois, 56-57; asst. prof, WISCONSIN, MILWAUKEE, 57-61, assoc, prof, 62-65, PROF, 65- Am. Inst. Indian Studies res. grant to study Sindhi community, Poona, 63. Fel. Anthrop. Asn; Ethnol. Soc. Culture and personality, especially among Chippewa Indians of Wisconsin. Publ: Acculturation and personality among the Wisconsin Chippewa, Mem. 72, Am. Anthrop. Asn, 50; Culture and personality, Dorsey, 63; Dream of the blue heron, Dell, 66. Address: Dept. of Anthropology, University of Wisconsin, 3203 Downer Ave, Milwaukee, Wis. 53211.

BARNOWE, PROF. T(HEODORE) J(OSEPH), b. Sioux City, Iowa, Jan. 1, 17; m. 42; c. 6. BUSINESS ADMINISTRATION. B.A, Morningside Col, 39; M.A, Washington (Seattle), 40, Ph.D, 46; Harvard, 46-47. PROF. ORGN. BEHAV, WASHINGTON (SEATTLE), 47- Prof, Banff Sch. Adv. Mgt, Univ. Alberta, 52-; U.S. Insts. Health res. grant, 62-63; lectr, U.S. Civil Serv. Exec. Seminar Center, Calif, 66- Summer vis. prof, Naval Postgrad. Sch, 62-65. U.S.N.R, 42-46, Capt. AAAS; Psychol. Asn; Sociol. Asn. Clinical research

in organizational behavior and administration; human relations. Address: 9305 45th N.E, Seattle, Wash. 98115.

BARNUM, DR. HORACE GARDINER, b. New London, Conn, May 10, 34; m. 59; c. 3. GEOGRAPHY. B.A, Middlebury Col, 57; M.S, Chicago, 61, Ph.D. (geog), 65. ASST. PROF. GEOG, VERMONT, 65- U.S.A, 57-59, 1st Lt. AAAS; Asn. Am. Geog. Historical and urban geography, especially Europe. Publ: Market centers and hinterlands in Baden-Württemberg, Univ. Chicago, 66; co-auth, Retail location and consumer behavior, Papers & Proc. Regional Sci. Asn, 62. Address: Dept. of Geography, University of Vermont, Burlington, Vt. 05401.

BAROFF, PROF. GEORGE STANLEY, b. New York, N.Y, Nov. 27, 21; m. 52; c. 2. CLINICAL PSYCHOLOGY. B.S, George Washington, 48, M.A, 50; Ph.D, N.Y. Univ, 55. Psychol. intern, Springfield State Hosp, Sykesville, Md, 51-52; sr. res. scientist, dept. med. genetics, State Psychiat. Inst, N.Y, 52-59; chief clin. psychologist, Vineland Training Sch, 60-63; assoc. prof. PSYCHOL, NORTH CAROLINA, 63-67, PROF, 67- Res. assoc, Columbia, 52-63; staff psychologist, Lebanon Hosp, Bronx, N.Y, 57-59; consult, dept. med. genetics, State Psychiat. Inst, N.Y, 59-63; Voc. Rehab. Agency, N.J, 60-63. U.S.A, 43-45. Psychol. Asn. Mental retardation; deafness; human genetics. Publ: Bender-Gestalt visuo-motor function in mental deficiency & WISC patterning in endogenous mental deficiency, Am. J. Ment. Deficiency; Current theories on the etiology of mongolism, Eugenics Quart. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27515.

BARON, PROF. ALAN, b. Brooklyn, N.Y, June 7, 31; m. 52; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 52, M.A, 53; U.S. Pub. Health Serv. fel, Oregon, 56-57, Ph.D.(psychol), 57. From instr. to assoc. prof. PSYCHOL, Maine, 57-62; from assoc. prof. to PROF, WISCONSIN, MILWAUKEE, 62-, CHMN. DEPT, 65- AAAS; Psychol. Asn. Learning; motivation; developmental psychology. Publ: Co-auth, Studies of individual and paired interactional problem solving behavior of rats: solitary and social controls, Genetic Psychol. Monogr, 61; auth, Delayed punishment of a ranway response, J. Comp. & Physiol. Psychol, 65; co-auth, Human free-operant avoidance of time out from monetary reinforcement, J. Exp. Anal. Behav, 66. Address: Dept. of Psychology, University of Wisconsin, Milwaukee, Wis. 53201.

BARON, PROF. MARTIN R(AYMOND), b. Stamford, Conn, Oct. 27, 22; m. 45; c. 3. PSYCHOLOGY. B.A, Yale, 42; M.A, Iowa, 48, Ph.D, 49. Asst. prof. PSYCHOL, KENT STATE, 49-53, assoc. prof, 53-58, PROF, 58- U.S.A, 43-46. Psychol. Asn; Psychonomic Soc. Experimental psychology; learning. Publ: The stimulus, stimulus control and stimulus generalization, In: Stimulus generalization, Stanford, 65; co-auth, Stimulus generalization along the dimension of angularity: a comparison of training procedures, J. Comp. & Physiol. Psychol, 65; Generalization gradients along wavelength and angularity dimensions in pigeons following two differential training procedures, Psychonomic Sci, 67. Address: Dept. of Psychology, Kent State University, Kent, Ohio 44240.

BARONDES, DR. SAMUEL HERBERT, b. Brooklyn, N.Y, Dec. 21, 33; m. 63; c. 2. PSYCHIATRY, MOLECULAR BIOLOGY. A.B, Columbia, 54, M.D, 58. Intern, Peter Bent Brigham Hosp, Boston, Mass, 58-59, res, 59-60; clin. assoc. molecular biol, Nat. Insts. Health, 60-63; res. psychiat, McLean Hosp, Belmont & Mass. Gen. Hosp, Boston, 63-66; asst. prof. psychiat. & molecular biol, ALBERT EINSTEIN COL. MED, 66-68, ASSOC. PROF. PSYCHIAT, 68- Nat. Inst. Ment. Health fel, 62-63, res. career develop. award, 66, mem. alcoholism & alcohol probs. rev. cmt, 66. U.S.P.H.S, 60-62, Sr. Asst. Surg. Soc. Biol. Psychiat; Int. Soc. Neurochem; Psychiat. Res. Soc. Biochemical regulatory processes in brain and behavior; brain protein synthesis and memory storage. Publ: The relationship of biological regulatory mechanisms to learning and memory, Nature, 65; co-auth, Delayed and sustained effect of acetoxycycloheximide on memory in mice, Proc. Nat. Acad. Sci, 67; Axoplasmic transport, Neurosci. Res. Prog. Bull, 67. Address: Dept. of Psychiatry, Albert Einstein College of Medicine, Yeshiva University, Bronx, N.Y. 10461.

BARR, DR. ALFRED L(OWELL), b. Kessel, W.Va, Jan. 17, 33; m. 59; c. 2. AGRICULTURAL ECONOMICS. B.S, West Virginia, 55; M.S, Kentucky, 57; Ph.D, Okla. State, 61. Asst. agr. econ, Kentucky, 55-57 Okla. State, 57-60; agr. economist, farm econ. res. div, econ. res. serv, U.S. Dept. Agr, 60-61; ASSOC. PROF. AGR. ECON, WEST VIRGINIA, 61- Agr. Econ. Asn. Production economics and farm management studies, especially firm analyses; input-output studies and evaluations of alternative farming systems and enterprises. Publ: Optimum cattle systems and range improvement practices for north eastern Oklahoma: dynamic and static analyses & Beef cattle systems and range improvement alternatives: estimated production, income and costs, Okla. State Exp. Sta. Pub. Address: Dept. of Agricultural Economics, West Virginia University, Morgantown, W.Va. 26506.

BARR, PROF. A(RVIL) S(YLVESTER), Ed. Psychol, Statist, see 10th ed, Soc. & Behav. Vols, deceased 62.

BARR, DR. ESTELLE DeYOUNG, b. New York, N.Y, June 18, 93; m. 15; c. 1. PSYCHOLOGY. B.A, Columbia, 14, fel, 15-16, Ph.D.(psychol), 34; fel, Pittsburgh, 14-15, M.A, 15. Psychologist, Neurol. Inst, 16-17; Hebrew Orphan Asylum, 17; Children's Court, N.Y, 17-18; statist. asst. res, Teachers Col, Columbia, 30-31, psychol. researcher, 35-47; from clin. psychologist to psychologist, ment. hyg. div, Westchester County Ment. Health Bd, 48-62; private practice, 62- Lectr, Fordham, 53; Mt. Vernon Hosp, 54; clin. psychologist, Avery Sch. Ment. Defectives, 54-56. Consult, Richmond Sanatarium for Defective Infants, 54- Fel. AAAS; Psychol. Asn. Clinical psychology. Publ: Is there such a thing as general ingenuity?, J. Philos. & Psychol. Sci; Psychological analysis of fashion motivation, Arch. Psychol; Changes in reading interests with age. Address: 500 E. 77th St, New York, N.Y. 10021.

BARR, DR. GEORGE W(ILBERT), b. Elvira, Iowa, Mar. 13, 96; m. 33; c. 3. AGRICULTURAL ECONOMICS. B.A, Colo. Agr. Col, 19; M.S, Cornell, 21; Ed.D.(voc. ed), California, 28. Teacher, high sch, Colo, 19-20; state supvr. agr. ed, Nev, 21-26; agr. agent, South. Pac. R.R. Co, Calif, 28-30; exten. economist, Arizona, 30-35, prof. agr. econ. & head dept, 35-57; agr. consult, Food & Agr. Orgn, UN, 57-62; consult, U.S. State Dept, 63; AgriRes, Inc, Kans, 63-64; State of Calif, Sacramento, 64-65; Brown & Roote, Inc, Houston, Tex, 65; tech. agr. adv, div. appraisal & assessment, State of Ariz, 66-67; CONSULT, 68- With U.S. Dept. Agr; U.S. Dept. Interior; Bur. Reclamation; Farm Credit Admin; Econ. Cmn. for Latin Am, Chile, 51-53. Am. Agr. Econ. Asn; Int. Asn. Agr. Econ. Agriculture price relationship. Publ: Arizona agriculture. Address: 2003 E. Fourth St, Tucson, Ariz. 85719.

BARR, DR. HARRIET LINTON, b. Philadelphia, Pa, May 4, 24; div; c. 1; wid. PSYCHOLOGY. B.S, Swarthmore Col, 44; M.S, Yale, 48, U.S. Pub. Health Serv. fel, 51-53, Ph.D.(psychol), 52. Instr. psychol, Brooklyn Col, 49-52; resident, Russell Sage Found, 53-54; res. fel. psychol, med. sch, N.Y. UNIV, 54, res. assoc, GRAD. PSYCHOL. DEPT, 54-55, res. asst. prof, 55-61, RES. ASSOC. PROF, 61- AAAS; Psychol. Asn; Soc. Psychol. Study Social Issues. Personality; perceptual and cognitive processes; individual differences in drug effects. Publ: Dependence on external influence; correlates in perception, attitudes and judgment & Rorschach correlates of response to suggestion, J. Abnorm. & Soc. Psychol; Subjective reactions to lysergic acid diethylamide (LSD-25), Arch. Gen. Psychiat. Address: Research Center for Mental Health, New York University, Washington Square, New York, N.Y. 10003.

BARR, HARRY W(ILLIAM), JR, b. Bradford, Ohio, Apr. 10, 13; m. 40; c. 2. MINERAL ECONOMICS. A.B, Col. Wooster, 35; Ohio State, 37-39. Control chemist, Inland Mfg. Div, Gen. Motors Corp, Ohio, 35-37; develop. chemist, Nat. Aniline Div, Allied Chem. Corp, N.Y, 39-44; prod. supvr. specialty chem, Edwal Labs, Inc, Ill, 44-47, prod. control supvr, 47-49; asst. to treas, Ringwood Chem. Corp, 49-50; independent consult, Ohio, 50-52, prin. chemist, BATTELLE MEM. INST, 52-57, prin. mineral economist, 57-62, SR. MINERAL ECONOMIST, 62- Chem. Mkt. Res. Asn; Inst. Min, Metall. & Petrol. Eng. Technical economics studies; market and marketing surveys for the chemical, chemical processing, mining and metallurgical industries. Address: Battelle Memorial Institute, 505 King Ave, Columbus, Ohio 43201.

BARR, DR. JOHN ALTON, b. Superior, Wis, June 9, 11; m. 40; c. 4. EDUCATIONAL & COUNSELING PSYCHOLOGY. B.S, Minnesota, 36, M.A, 38; Harvard, 41; fel, Washington (Seattle), 45-46, Ph.D, 48. Teacher, pub. schs, Minn, 30-34; prin, Breck Sch, 38-42; instr, Cent. Wash. Col, 42-43; U.S. Army Air Force, 43-45; head dept. ed. & psychol, Ore. Col. Ed, 46-47; from asst. prof. to assoc. prof, Washington (Seattle), 47-55; PROF. GUID. & ED. PSYCHOL. & COORDINATOR COUNSR. ED, SAN JOSE STATE COL, 55- Consult, 60- Psychol. Asn; Personnel & Guid. Asn. Elementary school guidance; parent-school relationships; data processing; educational-occupational planning. Publ: Elementary teacher and guidance; Films and filmstrips for career guidance; Parent-student-counselor conferences in career planning. Address: School of Education, San Jose State College, San Jose, Calif. 95114.

BARR, JOSEPH J, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BARR, PROF. ROBERT J(ACOB), b. Walkerville, Ont, Can, Sept. 3, 01; nat; m. ECONOMICS. B.S, Chattanooga, 24; M.S, Wisconsin, 25, Ph.D, 35. Asst. to dir, Oriental Inst, Chicago, 26-32; asst. prof. ECON, North. Mont. Col, 32-34; Toledo, 35-37; assoc. prof, MARQUETTE, 37-40, PROF, 40-, dir. dept, 48-56, chmn. dept, 63-68. Economist, div. int. trade, U.S. Dept. Commerce, 42-45; dir, Milwaukee Int. Trade Inst; summer res. assoc, Stanford Res. Inst, 61-62. Faculty award, Marquette, 65. Econ. Asn; Asn. for Ed. Int. Bus. International trade; business cycles. Publ: Ed. & contrib, American trade with Asia and the Far East; Annual economic outlook. Marquette Bus. Rev, 62; co-auth, Economic potential of Communist China, Stanford Res. Inst, 63. Address: Dept. of Economics, Marquette University, Milwaukee, Wis. 53233.

BARR, PROF. WALLACE, b. Amanda, Ohio, Apr. 24, 20; m. 45; c. 3. AGRICULTURAL ECONOMICS. B.Sc, Ohio State, 43, Ph.D, 61. Teacher, pub. schs, Ohio, 43-55; instr. AGR. POLICY, OHIO STATE, 55-61, asst. prof, 61-64, assoc. prof, 64-67, PROF, 67-, EXTEN. ECONOMISTS, 55- Vis. prof, Arizona, 61- Regional chmn, Nat. Agr. Policy, 67. Agr. Econ. Asn. Work centers on agricultural policy; foreign trade and price analysis. Publ: Directions needed in extension public policy programs, 61 & Future organization and control of U.S. agricultural production and marketing, 64, J. Farm Econ; Farm problem identified, In: Contemporary economics-selected readings, Allyn & Bacon, 67. Address: 2120 Fyffe Rd, Columbus, Ohio 43210.

BARRACLOUGH, DR. SOLON L, Forest Econ, see 10th ed, Soc. & Behav. Vols.

BARRATT, PROF. ERNEST S, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BARRELL, PROF. CHARLES A(LDEN), b. Buckingham, Va, Mar. 21, 09. POLITICAL SCIENCE. A.B, Hampden Sydney Col, 31; Soc. Sci. Res. Coun. fel, Virginia, 31-32, M.A, 32; Green traveling fel, 33-36; Ph.D.(polit. sci), Ohio State, 38. Instr. POLIT. SCI, Washington & Lee, 36-38; Ohio State, 38-39; Oberlin Col, 39-40; from asst. prof. to PROF, BOWLING GREEN STATE, 40- Mil. Intel, 42-46, 2nd Lt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Political parties; American national, state and local government. Publ: Representation, an analysis, Abstracts Doctoral Dissertations; Democracy, In: Introduction to American government; Metropolitan government: local political imperative, Washington & Jefferson Col, fall 64. Address: 722 N. Grove St, Bowling Green, Ohio 43402.

BARRELL, DR. L(AWRENCE) L(IONEL), b. New York, N.Y, Sept. 2, 22; m. 51; c. 3. POLITICAL SCIENCE, SOCIOLOGY. B.S, City Col. New York, 42; A.M, Columbia, 46; George Washington, 46; cert. Russian lang. & area, Syracuse, 53; Ph.D, N.Y. Univ, 57. Asst. prof. soc. & polit. sci, Pace Col, 47-52, 56-57; assoc. prof. & dir, Mitchel Col, Long Island, 57-59; prof. & dean, N.Y. Inst. Tech, 60-61; v.pres, Int. Teaching Mach. Corp, 61-62; prof. & dir. res, Mansfield state Col, 62; assoc. state coordinator, Pa.

Dept. Pub. Instr, 62-65; expert-dir. spec. tech. assistance proj, Int. Labor Off, UN Develop. Prog, Israel, 65-66; ASST. TO PRES, ROCKLAND COMMUNITY COL, 67- Trustee, Inst. Mediterranean Affairs. U.S.A.F, 42-45, 52-56. Central and Eastern European regional economic and social problems; international educational and training problems, innovation and research. Publ: Co-auth, Palestine refugee problem, 59 & United States foreign policy in the Middle East, 60, Inst. Mediterranean Affairs; auth, Poland and East European Union, 1939-1945, Polish Rev, 60. Address: 15 Oriole St, Spring Valley, N.Y. 10977.

BARRELL, DR. ROBERT P(OINDEXTER), b. Buckingham, Va, Jan. 27, 19. CLINICAL PSYCHOLOGY. B.A, Hampden Sydney Col, 40; M.A, Ohio State, 41; Ph.D, Michigan, 51. Trainee clin. psychol, Michigan, 46-51; CLIN. PSYCHOLOGIST, VET.ADMIN. HOSP, New Orleans, La, 51-54, DOWNEY, ILL, 54- U.S.A, 42-46. AAAS; Geront. Soc; Psychol. Asn; Soc. Proj. Tech. Projective tests; group therapy; psychosomatic problems; effects of staff attitudes on patients. Publ: A measure of staff attitudes toward care of physically ill patients, 65 & co-auth, Patient variables in emotional response to hospitalization for physical illness, 66, J.Consult. Psychol; Personnel attitudes and patients' emotional response to hospitalization for physical illness, J. Psychol, 67. Address: Veterans Administration Hospital, Downey, Ill. 60064.

BARRES, DR. STEPHEN J(OHN), b. New York, N.Y, Apr. 15, 15; m. 43; c. 1. INDUSTRIAL MANAGEMENT, LABOR RELATIONS. B.A, Texas, El Paso, 54; M.S, Purdue, 55, Ph.D.(indust. econ, mgt), 58. Asst, Purdue, 54-55; instr. econ, Texas, El Paso, 55-56, asst. prof. & head labor & mgt. dept, 56-58; assoc. prof. mgt. & head dept, Nevada, 58-59; prof. mgt. & chmn. div. bus. & econ. & acad. dean, San Diego, 59-61; ASSOC. PROF. MGT. & CHMN. DEPT, CALIF. STATE COL. FULLERTON, 61- Admin. asst, Purdue, 57-58; summer grant, Mass. Inst. Tech, 59. V.pres, prod, White Way Neon Co, 51-59. Consult. labor rels. & mgt. prob. U.S.M.C.R, 36-40; U.S.N.R, 41-45. Mgt. Asn; Arbit. Asn; Acad. Mgt; Indust. Rel. Res. Asn. Subcontracting, a major labor problem. Publ: Origins of modern labor law, Am. J. Econ. & Sociol, 4/63; Some issues of executive compensation, Adv. Mgt, 4/65; An anatomy of business policies, Indust. Mgt, 67. Address: School of Business & Economics, California State College, Fullerton, Calif. 92670.

BARRESI, DR. CHARLES MAGGIO, b. Dunkirk, N.Y, Dec. 30, 28; m. 52; c. 5. SOCIOLOGY. B.A, Buffalo, 53, M.A, 59, Ph.D.(sociol), State Univ. N.Y. Buffalo, 65. Assoc. prof. sociol. & chmn. dept, Rosary Hill Col, 56-66; ASSOC. PROF. SOCIOL. & RES. ASST, CENTER URBAN STUDIES, AKRON, 66- Consult, Neighborhood House Asn, Buffalo, 58-59; res. consult, Greater Buffalo Develop. Found, 59-66; Center Urban Studies, Univ. Akron, 66-67. Dent.C, U.S.N, 46-49. Sociol. Asn. Sociological theory; urban sociology; occupations and professions. Address: Dept. of Sociology, University of Akron, Akron, Ohio 44304.

BARRETT, PROF. ARNOLD LANKFORD, b. Clover, S.C, Mar. 8, 16; m. 49; c. 3. ECONOMICS. A.B, Georgia, 37; Duke, 39-40; A.M, Virginia, 47; Ph.D, 57. Asst. prof. ECON, Howard Col, 47-49, assoc. prof, 49-54; prof, King Col. 54-57; assoc. prof, Alabama, 57-63; PROF. WESTERN CAROLINA, 63- U.S.A.A.F, 42-46. Econ. Asn; Royal Econ. Soc; Acad. Mgt. Economic theory; finance; taxation. Publ: Some effects of taxes on business and financial organizations, Am. J. Econ. & Sociol, 7/63; Undergraduate economic education, J. Gen. Ed, 4/66; Euthanasia of the small farmer, Miss. Valley J. Bus. & Econ, fall 67. Address: P.O. Box 2543, Cullowhee, N.C. 28723.

BARRETT, DR. BEATRICE H(ELENE), b. Cincinnati, Ohio, Dec. 8, 28; m. 66. CLINICAL & EXPERIMENTAL PSYCHOLOGY. B.A, Arizona, 50; summers, Cincinnati, 49, 50; M.A, Kentucky, 52; Ph.D.(clin. psychol), Purdue, 57. Asst. psychol, Arizona, 49-50; Kentucky, 50-52; staff psychologist, Riley Child Guid. Clin, med. center, Indiana, 54-57, chief clin. psychologist, children's out-patient & consult. serv, 57-59, res. assoc. psychol, inst. psychiat. res, 59-60, instr, med. sch, 56-60; res. fel. psychol, behav. res. lab, Harvard Med. Sch, 60-62; DIR. BEHAV. RES, WALTER E. FERNALD STATE SCH, 62-, DIR. BEHAV. PROSTHESIS LAB, 63- Lectr, Boston Univ, 62-63. Asst, Longview State Hosp, Cincinnati, Ohio, 51, staff psychologist, 52; private practice, 57-60. AAAS; Psychol. Asn; Soc. Clin. & Exp. Hypnosis; Soc. Res. Child Develop; Asn. Ment. Deficiency; Asn. Adv. Behav. Ther; Acad. Ment. Retardation; Ed. Res. Asn; Orthopsychiat. Asn; Coun. Except. Children; N.Y. Acad. Sci. Free operant experimental analysis of learning impairments in retarded children; automatic, continuous recording and attenuation of pathological behavior by appropriately programmed environmental consequences. Publ: Reduction in rate of multiple tics by free operant conditioning methods, J. Nervous & Ment. Disease, 62; co-auth, Deficits in acquisition of operant discrimination & differentiation shown by institutionalized retarded children, Am. J. Ment. Deficiency, 62; auth, Acquisition of operant differentiation & discrimination in institutionalized retarded children, Am. J. Orthopsychiat, 65. Address: Behavior Prosthesis Lab, Walter E. Fernald State School, Box C, Waverley, Mass. 02178.

BARRETT, PROF. DONALD N(EIL), b. Norfolk, Va, Oct. 27, 20; m. 48; c. 10. SOCIOLOGY, DEMOGRAPHY. A.B, St. Louis, 42, Ph.L, 43; Catholic Univ, 45-47; M.A, Pennsylvania, 55. Asst. prof. SOCIOL, La Salle Col, 48-55; NOTRE DAME, 55-65, ASSOC. PROF, 66- Consult, Pop. Coun, 64-65; Agency Int. Develop, 65-68. Sociol. Asn; Pop. Asn. Fertility and fertility control; family structure, processes and changes; Spanish speaking in the United States; urbanism and community. Publ: Values in America, 62 & Population problems, 64, Univ. Notre Dame. Address: Dept. of Sociology, University of Notre Dame, Notre Dame, Ind. 46556.

BARRETT, PROF. DOROTHY M(OSS), b. Hartford, Conn, Oct. 29, 08. PSYCHOLOGY. B.S, Conn. Col, 30; A.M, Columbia, 31, Ph.D.(psychol), 38. Instr. PSYCHOL, HUNTER COL, 38-48, asst. prof, 48-53, assoc. prof, 53-57, PROF, 57- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Personnel & Guid. Asn. Memory in relation to hedonic tone; use of psychological tests in a college guidance program. Address: Dept. of Psychology, Hunter College, New York, N.Y. 10021.

BARRETT, GEORGE H, Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

BARRETT, DR. GERALD VAN, b. Bellefontaine, Ohio, Aug. 3, 36; m. 62; c. 2. INDUSTRIAL PSYCHOLOGY. B.A, Wittenberg, 58; M.S, Western Reserve, 59, Ph.D.(psychol), 62. Res. assoc, Goodyear Aerospace Corp, 62-65, dir. human factors lab, 65-67; ASST. DIR. MGT RES. CENTER, Univ. Pittsburgh, 67-68; ROCHESTER, 68- Lectr, Akron, 65-66. Exec. secy, N.Am. Res. Group Mgt, 68. AAAS; Psychol. Asn; Human Factors Soc. Motivation; perception; simulation; managerial behavior. Publ: Motivation in industry, Allen, 66; The relationship between perceptual style and emergency behavior, 68 & The relationship between perceptual style and simulator sickness, 68, J. Appl. Psychol. Address: Management Research Center, University of Rochester, Rochester, N.Y. 14627.

BARRETT, SISTER MARY CONSTANCE, R.S.M, Psychol, see 10th ed, Soc. & Behav. Vols, deceased.

BARRETT, MOTHER PATRICIA, R.S.C.J, b. Gary, Ind, July 28, 14. POLITICAL SCIENCE. A.B, Maryville Col.(Mo), 35; A.M, St. Louis, 40, Ph.D, 50. Instr, MARYVILLE COL.(MO), 40-44, asst. prof. soc. sci, 45-50, PROF. POLIT. SCI, 50- Rockefeller Found. grant, 60; Japan Soc. summer study grant, Sophia Univ, Japan, 64; summer study grant polit. sci, Hebrew Univ, Jerusalem, 67. Ed. specialist, Human Develop. Corp. Metrop. St. Louis, 66-67. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Catholic opinion on some aspects of the church-state problem in the United States. Publ: Religious liberty and the American Presidency, Herder & Herder, 63; contrib, Religion and the public order: 1964, Univ. Chicago, 65; Church-state bibliography, Theol. Digest. Address: Dept. of Political Science, Maryville College, St. Louis, Mo. 63141.

BARRETT, DR. RICHARD S(EARS), Indust. Psychol, see 10th ed, Soc. & Behav. Vols.

BARRETT, DR. ROBERT A, b. Minneapolis, Minn, Dec. 4, 38; m. 60. POLITICAL SCIENCE. B.A, Hamline, 60; Nat. Defense Ed. Act fel, American Univ, 60-63, M.A, 62, Ph.D.(polit. sci), 65. Res. intern, Metrop. Wash. Coun. Govt, 61; legis. asst, Congressman Clark MacGregor, U.S. House Rep, 61-62; lectr. POLIT. SCI, American Univ, 62-63; from instr. to PROF, MANKATO STATE COL, 63-, CHMN. DEPT, 66-, DIR. URBAN STUDIES CENTER, 65- Dir, Orgn. Study of Metrop. Intercounty Coun, 66-67; proj. dir, Fed. res. grants community develop, 66-69. Consult, Presidents Adv. Voting Cmn, 63; Governors Reapportionment Cmn, 64-65; Community Leader Develop. Proj, 66; Planning Leader Develop. Proj, 66-67. Polit. Sci. Asn. Urban government and politics; legislative assemblies, especially city councils; urban studies. Publ: Utilization of county boundaries in legislative reapportionment, Minn. Acad. Sci. J, 67; Organization of Metropolitan Intercounty Council, Metrop. Intercounty Coun, 3/67. Address: Dept. of Political Science, Mankato State College, Mankato, Minn. 56001.

BARRETT, PROF. RUSSELL H(UNTER), b. Cottonwood Falls, Kans, Dec. 30, 19; m. 47; c. 2. POLITICAL SCIENCE. B.A, Kansas, 46, M.A, 47; Ph.D. (polit. sci), Melbourne, 52. Instr. POLIT. SCI, Kansas, 47-50; California, 52-53; San Francisco State Col, 53-54; asst. prof, MISSISSIPPI, 54-56, assoc. prof, 57-60, PROF, 61- Fel, Harvard, 58-59; Rockefeller Found. travel grant, 66-67. U.S.A.A.F, 42-45, Sgt. Polit. Sci. Asn. Comparative government of the British Commonwealth, western Europe and east Asia; American government; political theory. Publ: Integration at Ole Miss, Quadrangle, 65; co-auth, Yesterday's constitution today; Promises and performances in Australian politics. Address: Dept. of Political Science, University of Mississippi, University, Miss. 38677.

BARRETT, DR. S(AMUEL) A(LFRED), Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 65.

BARRETT, DR. THEODORE H(OLZEMAN), JR, Psychol, see 10th ed, Soc. & Behav. Vols.

BARRIENTOS, PROF. GUIDO A(LAN), b. Quezaltenango, Guatemala, Dec. 1, 31; m. 55; c. 2. PSYCHOLOGY. Lic, San Carlos, Guatemala, 55; M.A, Kansas, 57, Ph.D, 59. Prof. psychol, San Carlos, 59-63, dir, inst. res. & improve. ed, 62-63; asst. prof. PSYCHOL, TEXAS, EL PASO, 63-66, ASSOC. PROF, 66- Researcher psychomet, Am. Sch, Guatemala, 59-63. Consult, Nat. Cmt, Guatemala, 61. Am. Psychol. Asn; Inter-Am. Soc. Psychol. Learning theory; incentive motivation factor; behavior modification. Publ: Empleo del metodo experimental en psicologia; The role of theory in interdisciplinary research, Univ. Texas at El Paso Press, 68; Secondary reinforcement and multiple drive reduction, J. Comp. & Physiol. Psychol. Address: Box 8, University of Texas, El Paso, Tex. 79999.

BARRINGER, DR. BENTON E, b. Oramel, N.Y, Sept. 8, 92; m. 59. CLINICAL PSYCHOLOGY. B.S, Cornell, 15; M.A, Columbia, 20, Ph.D, 24. Dir. West. N.Y. Dist, Nat. Youth Admin, 35-41; supvr, Guid. & Adult. Ed, N.Y, 41-42; dir. guid, Adjust. Bur, 42-45; adv. & revaluations chief, Vet. Admin. Regional Off, 45-47; chief psychol. counsr, Brooklyn Col, 47-50; head dept. psychol, Richmond Prfnl. Inst, 50-51; dir. psychol. serv, Marion State Hosp, Va, 51-52; clin. psychologist, Jacksonville State Hosp, Ill, 52-53; Vet. Admin. Hosp, Canandaigua, N.Y, 53-61; staff psychologist, Cumberland County Guid. Center, Cape Fear Valley Hosp, N.C, 61-66; CHIEF CLIN. PSYCHOLOGIST & DIR, MOWER COUNTY MENT. HEALTH CENTER, INC, 66- Fel. AAAS; fel. Psychol. Asn; Soc. Proj. Tech. Mental hygiene; mental health clinic services; differential diagnosis. Address: 408 Eighth Place N.W, Austin, Minn. 55912.

BARRINGER, DR. HERBERT R, b. Billings, Mont, May 27, 31. SOCIOLOGY. A.B, San Diego State Col, 59; fel, Northwestern, 60-63, M.A, 61, Ph.D. (sociol), 64. Asst. prof. sociol, Delaware, 63-67; ASSOC. PROF. SOCIOL, HAWAII & ASSOC. IN SOCIOL, SOC. SCI. RES. INST, 67- Fulbright res. & lectr, Seoul, 66-67. U.S.A, 53-55. Sociol. Asn. Comparative sociology with emphasis in the Far East, especially Korea; sociological methodology; family; ethnic relations. Publ: Co-auth, Selected studies in marriage and the family, Holt, 62 & Social change in developing areas, Schenkman, 65; auth, Integration in Newark, In: Our children's burden, Random, 67. Address: Social Science Research Institute, University of Hawaii, Honolulu, Hawaii 96822.

BARRINGTON, DR. BILLY RAY, b. Goodrich, Tex, Nov. 27, 29; m. 52; c. 2. PSYCHOLOGY. B.A,Southwest Tex. State Col, 53; M.Ed, Sam Houston State Col, 56; Ph.D.(psychol), Houston, 65. Asst. prof. psychol, Tex. Lutheran Col, 64-65; asst. prof. psychol. & consult, voc. rehab. proj, med. br, Texas, 65-67; ASSOC. PROF. PSYCHOL, LAMAR STATE COL, 67- Consult, Univ. Houston, 66- Psychol. Asn. Group dynamics and personality characteristics of people involved in small group interaction situations. Publ: Conditioning subjects to enact social roles in a small group setting, Tex. Reports Biol. & Med, 66; co-auth, Relationship between medical student attitudes toward pathology and sociocultural characteristics, Abstracts J. Med. Ed, 67. Address: Dept. of Psychology, Lamar State College, Beaumont, Tex. 77704.

BARRINGTON, DR. BYRON LEE, b. Waupaca, Wis, June 19, 32; m. 55; c. 2. PSYCHOLOGY. B.S, Wisconsin, 54; M.S, Chicago, 57, Ph.D, 59. Intern clin. psychol, Vet. Admin. Hosp, Chicago, Ill, 56-59; asst. prof. PSYCHOL, WISCONSIN, 60-66, ASSOC. PROF, 66-; CLIN. PSYCHOLOGIST, MARATHON COUNTY CHILD GUID. CENTER, 60- Psychol. consult, Marathon County Hosp, 66- U.S.A, 59-60, 2nd Lt. AAAS; Psychol. Asn. Therapist behavior and client change in the psychotherapeutic process; personality development; remedial programs in elementary grades. Publ: Changes in psychotherapeutic responses during training in therapy; Prediction from counselor behavior of client perception and case outcome. Address: 202 Pinecrest Ave, Wausau, Wis. 54401.

BARRON, DR. FRANK XAVIER, b. Lansford, Pa, June 17, 22; m. 61; c. 2. PSYCHOLOGY. A.B, La Salle Col, 42; M.A, Minnesota, 48; Ph.D, California, 50. Lectr. psychol, Bryn Mawr, 50-51; vis. lectr, California, 54; Harvard, 56, 60-61; vis. prof, Wesleyan, 58; fel, Center Adv. Study Behav. Sci, 58-59; RES. PSYCHOLOGIST, CALIFORNIA, 61- Soc. Sci. Res. Coun. fel, 64-65; Guggenheim fel, 67-68. U.S.A, 43-46. Fel. Psychol. Asn. Psychotherapy; esthetics; personal philosophy; creative thinking; altered states of consciousness. Publ: Creativity and personal freedom; co-ed, Scientific creativity, Wiley, 63; co-auth, New directions in psychology, II. Address: 93 Parkside Dr, Berkeley, Calif. 94705.

BARRON, DR. JOHN F(REDERICK), b. Silvana, Wash, Sept. 27, 17; m. 47; c. 2. ECONOMICS. B.A, Washington (Seattle), 54, Ph.D.(econ), 57. Instr. ECON, Washington (Seattle), 55-57; from asst. prof. to ASSOC. PROF, CALIFORNIA, LOS ANGELES, 57- U.S.A.A.F, 43-47, Capt. Econ. Asn. Public finance and taxation; public regulation of industry. Publ: Tax effects of inventory methods & Tax equity and retroactive tax adjustments, J. Acct; Lifo cost or market: sound accounting principle or tax device? Nat. Tax J. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

BARRON, DR. JULES, b. New York, N.Y, Apr. 1, 23; m. 44; c. 3. PSYCHOLOGY. M.A, N.Y. Univ, 48, Ph.D.(clin. psychol), 52. Instr. psychol, Long Island, 48-54, asst. prof, 54-55, clin. coordinator, testing & adv. serv, 51-55, clin. consult, guid. center, 54-55; CLIN. PSYCHOLOGIST, 51- Lectr, City Col. New York, 50-52; adj. assoc. prof, Fairleigh Dickinson, 65-66, clin. training supvr, 66- Chief psychologist, cerebral palsy clin, Med. Center, Jersey City, N.J, 50-54; Cerebral Palsy Treatment Center, 54-55; sr. psychologist, seizure clin, Columbia-Presby. Med. Center, 55-56. Clin. consult, Vet. Admin. Guid. Center, 54-55; Riverdell Regional Ment. Health Serv, 60-; consult, Bergen Pines County Hosp, Paramus, N.J, 64- Med.C, U.S.A, 43-46. AAAS; Psychol. Asn; Acad. Psychother.(ed, Newsletter, 55-, award, 64, pres, 64-66); Soc. Clin. & Exp. Hypnosis; Soc. Sci. Study Sex. Psychotherapy; psychodiagnosis; psychosomatics; nature of the life process and psychotherapy; poetry, communication and the therapeutic experience. Publ: The marital process-counseling, In: Marital psychology, ideology, science, C.C. Thomas, 67; Voice of man, Voices, fall 65; Note on poetry, Am. Acad. Psychother. Newsletter, 7/63 & South & West-Lit. Quart, spring 64. Address: 114 Honeysuckle Dr, Westwood, N.J. 07675.

BARRON, PROF. MILTON L(EON), b. U.S, Feb. 25, 18. SOCIOLOGY. A.B, Yale, 39, A.M, 42, Ph.D, 45. Asst. prof. SOCIOL, Syracuse, 44-48; Cornell, 48-54; assoc. prof, CITY COL. NEW YORK, 54-61, PROF. & CHMN. DEPT, 61- Vis. lectr, Wells Col, 49-50; vis. prof, N.Y. Univ, 59-60; Columbia, 60; Fulbright prof, Bar-Ilan Univ, Israel, 62-63. Sociol Asn. Intergroup relations; retirement problems of old age; people who intermarry. Publ: The aging American, Crowell, 61; co-auth, Contemporary sociology, Dodd, 64; Minorities in a changing world, Knopf, 67. Address: 205 Wagner Hall, City College of New York, New York, N.Y. 10031.

BARROW, DR. ROBERT V(AN), b. Crestview, Fla, Jan. 15, 36; m. 58; c. 2. POLITICAL SCIENCE. B.A, Fla. State, 62, Nat. Defense Ed. Act fel, 62-65, M.S, 64, Ph.D.(govt), 67. Instr. POLIT. SCI, SOUTH ALABAMA, 66-67, ASST. PROF, 67- U.S.A.F, 54-59. Polit. Sci. Asn; Soc. Pub. Admin. Politics of interstate route selection; constitutional revision in the states; impact of interest groups on local governments in West Germany. Address: 5209 S. Marietta Dr, Mobile, Ala. 36618.

BARROW, DR. THOMAS CHURCHILL, Am. Colonial Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARROWS, DR. GORDON A(RTHUR), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 62.

BARRY, DR. HERBERT, III, b. New York, N.Y, June 2, 30. PSYCHOLOGY. B.A, Harvard Col, 52; M.S, Yale, 53, Ph.D.(psychol), 57. U.S. Pub. Health Serv. res. fel. PSYCHOL, Yale, 57-59, instr, 58-60, asst. prof, 60-61; Connecticut, 61-63; RES. ASSOC. PROF. PHARMACOL, SCH. PHARM, PITTSBURGH, 63-, ASSOC. PROF. CROSS-CULTURAL RES, DEPT. ANTHROP, UNIV, 66- Prin. investr. res. grant & res. career prog. award, U.S. Pub. Health Serv, 67- U.S.A.R, 51-57, Sgt. AAAS; Psychol. Asn; Psychonomic Soc; Soc. Pharmacol. Behavior and drug effects during chronic stress; cross-cultural studies of child training; crime and alcohol consumption; childhood family structure as a determinant of mental illness. Publ: Effects of strength of drive on learning and on extinction, J. Comp. Physiol. Psychol; co-auth, relation of child training to subsistence economy, Am. Anthrop; Drug effects on animal performance and the stress syndrome, J. Pharmaceut. Sci, 66. Address: School of Pharmacy, University of Pittsburgh, Pittsburgh, Pa. 15213.

BARRY, DR. JOAN, Geog, see 10th ed, Soc. & Behav. Vols.

BARRY, PROF. JOHN R(EAGAN), b. Lyndonville, N.Y, July 2, 21; m. 46; c. 3. PSYCHOLOGY. B.A, Hamilton Col, 42; M.A, Syracuse, 43; Ph.D.(psychol), Ohio State, 49. Intern, Vet. Admin. Ment. Hyg. Clin, Columbus, Ohio, 47-49; asst. prof. psychol, Illinois, 49-51; psychologist, U.S. Air Force Sch. Aviation Med, Tex, 51-55; assoc. prof. psychol, sch. med. & div. natural sci, Pittsburgh, 55-61; prof. & res. coordinator, col. health related serv, Florida, 62-66; PROF. PSYCHOL, GEORGIA, 66- Consult, div. voc. rehab, State of Ga, 66- Mem. adv. bd, Voc. Rehab. Res. & Training Center, Hot Springs, Ark, 64- U.S.A.A.F, 42-44; U.S.A, 44-45. AAAS; Psychol. Asn; Research Soc; Soc. Proj. Tech; Personnel & Guid. Asn. Personality theory and measurement; psychological test development; rehabilitation. Publ: Co-auth, Client motivation for rehabilitation, Univ. Florida, 2/65; auth, Psychiatric screening of flying personnel, J. Aviation Med; Methodology and research on the prognostic use of psychological tests, Psychol. Bull. Address: Dept. of Psychology, University of Georgia, Athens, Ga. 30601.

BARRY, PETER RALPH, Am. Colonial & Revolutionary Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARRY, PROF. WILLIAM, b. Montreal, Que, May 21, 28. CLINICAL PSYCHOLOGY. B.A, Loyola Col.(Can), 51; M.Ps, Ottawa, 58, Ph.D.(clin. psychol), 61. Lectr. abnorm. psychol, OTTAWA, 58-60, asst. prof. abnorm. & psychophysiol. psychol, 61-63, PSYCHOL, 63-67, TITULAR PROF, 68- Co-dir, U.S. Off. Ed. grant, 66-67. Consult. psychologist, Ottawa Separate Sch. Bd, 67-68. Can. Psychol. Asn. Abnormal and psychophysiological research, especially in fields of biological intelligence; cortical inhibition and personality correlates; psychoneurology of the constitutional psychopath. Publ: Brain waves and human intelligence, O.I.S.E. J. Measurement, 66; co-auth, Vasomotor component of anxiety, J. Perceptual & Motor Skills, 10-67. Address: Faculty of Psychology, University of Ottawa, Ottawa 2, Ont, Can.

BARSALOU, DR. F(RANCIS) W(ILFRED), Econ, see 10th ed, Soc. & Behav. Vols.

BARSS, DR. LAWRENCE W(HITCOMB), b. Boston, Mass, Feb. 28, 28; m. 55; c. 2. ECONOMIC DEVELOPMENT & HISTORY. A.B, Princeton, 50; Hazen Found. fel, Mass. Inst. Tech, 58-59, Ph.D.(econ), 61. Mgt. trainee, overseas div, First Nat. City Bank New York, 54; instr. U.S. & econ. hist, Mass. Inst. Tech, 58-60, asst. prof. econ. & hist, 60-62; dir. econ. develop. div, Harbridge House, Inc, 62-65; sr. assoc, Asn. Int. Res, 65-67; PRES, BARSS, REITZEL & ASSOCS, INC, 67- Mem. symp. polit. sci. res, Adv. Res. Projs. Agency-Inst. Defense Anal, 67- U.S.A, 51-53, 1st Lt. AAAS; Econ. Asn; Econ. Hist. Asn; Acad. Polit. & Soc. Sci. Characteristics of economic take-off; urban development. Publ: Industrial development institutions: United States, Puerto Rico, Venezuela, Orgn. Am. States, 63; Political change and economic growth: a methodology applied to Japan, Turkey and India, M.I.T. Press, 61; The attributes of successful community action programs, Off. Econ. Opportunity, 68. Address: Barss, Reitzel & Associates, Inc, 134 Mt. Auburn St, Cambridge, Mass. 02138.

BARTA, DR. FRANK R, SR, Psychiat, Endocrinol, see 11th ed, Phys. & Biol. Vols.

BARTA, DR. JAMES OMER, b. Fairfax, Iowa, Oct. 22, 31. PSYCHOLOGY. B.A, Loras Col, 52; S.T.L, Gregorian Univ, 56; Ph.D, Fordham, 62. ASST. PROF. PSYCHOL, LORAS COL, 61- Chief psychologist, Dubuque County Ment. Health Clin, 67- AAAS; Psychol. Asn. Address: Dept. of Psychology, Loras College, Dubuque, Iowa 52001.

BARTELL, DR. ERNEST J(OSEPH), b. Chicago, Ill, Jan. 22, 32. ECONOMICS. Ph.B, Notre Dame, 53; A.M, Chicago, 54; Gregorian Univ, 57-58; M.A, Holy Cross Col, 61; Ph.D.(econ), Princeton, 67. Instr. ECON, Notre Dame, 61-62; Princeton, 65-66; asst. prof, NOTRE DAME, 66-68, ASSOC. PROF. & CHMN. DEPT, 68- Econ. Asn. Economics of Catholic education; economic development of Latin America. Publ: Costs and benefits of Catholic schools, Univ. Notre Dame, 67. Address: Dept. of Economics, University of Notre Dame, Notre Dame, Ind. 46556.

BARTELL, DR. GILBERT D, b. Chicago, Ill, Jan. 24, 29; m. 55. ANTHROPOLOGY, ETHNOPSYCHOLOGY. B.A, Illinois, 53; M.A, Ohio State, 59; Ph.D.(anthrop), Arizona, 64. Instr. ANTHROP, Ohio State, 58-59; res. asst. Arizona, 59-61, instr, 61-62; ASST. PROF, Iowa State 63-66; NORTHERN ILLINOIS, 66- Iowa State Faculty Achievement Fund res. grant, Mexico, 65-66; Hays-Fulbright lectr, Paraguay, 68-69. U.S.A, 52-53. Fel. Anthrop. Asn; Ethnol. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Int. Cong. Americanists. Psychopathology of the Western Apache, and of the Yaqui Indians of Sonora, Mexico; conceptualization of disease and curing among Spanish speaking people in urban centers of the United States. Publ: Selective perception of social systems, America Latina, Brazil, 66; Perception of communication in community development programs, Aportes, Mexico, 66; co-auth, Yaqui and Mexican government—conflict in the perception of power, Int. J. Comp. Sociol, 68. Address: Dept. of Anthropology, Northern Illinois University, DeKalb, Ill. 60115.

BARTELL, DR. F(ARRY) ROBERT, JR, b. St. Louis, Mo, Jan. 25, 35; m. 58; c. 5. ECONOMICS, BUSINESS ADMINISTRATION. Weinheimer fel, Washington (St. Louis), 57-58, M.B.A, 58; Ford Found. fel, Columbia, 60-61, Ph.D.(finance, indust. rels), 63. Res. asst, Nat. Bur. Econ. Res, 60; asst. prof. finance, California, Los Angeles, 61-65; economist, U.S. Savings & Loan League, 65-67; ASSOC. PROF. MANAGERIAL ECON, NORTHWESTERN, 67- Consult, Fed. Home Loan Bank Bd, 67- Econ. Asn; Finance Asn. Capital markets and institutions, especially pension funds and mortgage markets; monetary and fiscal policy. Publ: Co-auth, Pension funds of multi-employer industrial groups, unions and nonprofit organizations, Nat. Bur.

Econ. Res, 67; Study of mortgage credit, U.S. Senate Cmt, Banking & Currency, 67; auth, Financial resources of American labor unions, Quart. Rev. Econ. & Bus, 65. Address: Dept. of Managerial Economics, Graduate School of Business, Northwestern University, Chicago, Ill. 60611.

BARTELS, PROF. ROBERT, b. Wheeling, W.Va, Jan. 28, 13. MARKETING. B.S, Ohio State, 35, Ph.D, 41; M.B.A, Northwestern, 36. Lectr, California, 41; PROF. BUS. ORGN, OHIO STATE, 46- Fulbright res. scholar, Greece, 54-55; vis. prof, Univ. Salonica; distinguished vis. prof, Southern California, 61. U.S.N.R, 42-45, Lt.(jg). Mkt. Asn. Comparative marketing systems; credit and collections. Publ: Ed, Comparative marketing: wholesaling in fifteen countries, Irwin, 63; Ethics in business, Bur. Bus. Res, Ohio State, 63; auth, Credit management, Ronald, 67. Address: Dept. of Business Organization, Ohio State University, Columbus, Ohio 43210.

BARTER, DR. JAMES T, b. South Portland, Maine, May 31, 30; m. 54. PSYCHOLOGY. B.A, Antioch Col, 52; fel, Arizona, 54-55, M.A, 55; M.D, Rochester, 61. Anthropologist, U.S. Air Force, 55-57; intern, Mary Imogene Bassett Hosp, 61-62, resident PSYCHIAT, 62-63; State Psychiat. Inst, N.Y, 63-65; ASST. PROF. SCH. MED, COLORADO, 65- Dir. in-patient adolescent serv, Colo. Psychiat. Hosp, Denver, 65-68, assoc. dir, hosp, 68- Asn. Phys. Anthrop; Psychiat. Asn. Archaeology; physical anthropology; psychiatry. Address: 2218 Ash St, Denver, Colo. 80207.

BARTH, DR. PETER SAMUEL, b. Karlsruhe, Germany, Nov. 21, 37; U.S. citizen; m. 62. ECONOMICS. A.B, Columbia, 58; fel, Michigan, 63-65, Ph.D. (econ), 65. ASST. PROF. ECON, OHIO STATE, 65-, RES. ASSOC, CENTER HUMAN RESOURCE RES, 66- Vis. asst. prof, grad. sch. bus, Chicago, 68- Summer consult, Ministry of Planning, Bolivia, 66-67 & Ecuador, 67. U.S.A, 58-59; Nat. Guard, 59-65. Econ. Asn; Indust. Rels. Res. Asn. Human resource and labor economics; economic development of underdeveloped countries. Publ: Economic change and the labor force in Michigan, Proc. Indust. Rels. Res. Asn; 12/66; Cross-sectional analysis of labor force participation rates, Indust. & Labor Rels. Rev, 1/67; Unemployment and labor force participation, South. Econ. J, 1/68. Address: 1824-A Northwest Court, Columbus, Ohio 43212.

BARTH, DR. THOMAS EMIL, b. Milwaukee, Wis, Sept. 1, 37. POLITICAL SCIENCE. B.S, Wisconsin, Milwaukee, 59, M.S, Madison, 60, LaFollette fel, 61-62, Ph.D.(polit. sci), 68. Instr. POLIT. SCI, WIS. STATE, EAU CLAIRE, 63-68, ASST. PROF, 68- Polit. Sci. Asn. Legislative process; judicial process. Address: Political Science Dept, Wisconsin State University, Eau Claire, Wis. 54701.

BARTH, WILLIAM P, b. Bismark, Mo, June 2, 23; m. 61; c. 1. SOCIOLOGY. B.S, Washington (St. Louis), 50; Michigan, 52-54. Res. asst, dept. ed, community develop. prog. & consult. adult ed, MICHIGAN, 57-59, exec. secy, CENTER RES. CONFLICT RESOLUTION, 59-61, asst. dir, 61-67, ADMIN. DIR, 67- Consult, Off. Econ. Opportunity, 65; World Inst. World Peace, 65-66. Managing ed, J. Conflict Resolution, 55. Coordinator, Univ. Mich-Tuskegee Inst. Prog. Race Rels, 63-; mem. organizing cmt. & staff, Int. Conf. Soc. Psychol. Res. in Developing Countries, 66; Nat. Conf. Race Rels, 67. U.S.A.A.F, 43-46. Psychol. Asn. Problems of world peace and international conflict. Publ: Ed, Research approaches to the study of war and peace. Address: Center for Research on Conflict Resolution, 405 S. Fourth St, University of Michigan, Ann Arbor, Mich. 48104.

BARTHEL, DR. C(HRISTOPHER) E(RNEST), JR, Physics, see Suppl. II to 11th ed, Phys. & Biol. Vols.

BARTHEL, PROF. JOHN E(RICH), b. Dresden, Germany, Dec. 25, 08; nat; m. 58; c. 1. ECONOMICS. Dr. rer. pol, Berlin, 39. Res. economist, Off. Econ. Res, Germany, 39-45; asst. economist, Hamburg, 45-46; econ. adv, Fiscal Off, 46-53; assoc. prof. ECON, Stetson, 55-67; PROF, ASHEVILLE-BILTMORE COL, 67- Ford Found. fel, 58; Gen. Elec. fel, 64; dir, Nat. Sci. Found. Seminar Econ. Ed, 65. Econ. Asn. Economic theory; statistics. Publ: Activity and problems of supervisory agencies. Address: Dept. of Economics, Asheville-Biltmore College, Asheville, N.C. 28801.

BARTHOL, DR. RICHARD P(AUL), b. San Francisco, Calif, Mar. 17, 19; m. 42; c. 2. PSYCHOLOGY. B.S, California, 39, M.A, 52, Ph.D.(psychol), 53. Unemploy. ins. supvr, Calif. Dept. Employ, 40-42; personnel supvr, Marinship Corp, 42-44; analyst, Pub. Utility Employers Inst, 46-50; psychologist, Human Resources Res. Center, 51; assoc. PSYCHOL, California, 51-53; asst. prof, Pa. State, 53-55, assoc. prof, 55-56; asst. prof, CALIFORNIA, LOS ANGELES, 56-59, ASSOC. PROF. & V.CHMN. DEPT, 59- Prin. investr. color & contrast in dial reading, U.S. Dept. Navy, 55-; vis. fel, Leeds, 61, 63; prin. investr, Gen. Res. Corp, 67- Indust. consult, 51- U.S.A, 44-46. Psychol. Asn. Industrial psychology; stress: intercultural value systems. Publ: The validity of personality inventories in the selection of employees & Role perceptions of sucessful and unsuccessful supervisors, J. Appl. Psychol; Specific regression in a non-related stress situation, Am. Psychologist. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

BARTHOLOMEW, PROF. ALFRED C(LINTON), b. Catasauqua, Pa, Nov. 18, 18; m. 42; c. 3. RURAL SOCIOLOGY. A.B, Ursinus Col, 39, D.D, 60; B.D, Theol. Sem, Evangel. & Reformed Church, 42; Ph.D, Drew, 50. Pastor, Evangel. & Reformed Church, Pleasantville, 42-49; PROF. CHURCH & COMMUNITY, LANCASTER THEOL. SEM, UNITED CHURCH OF CHRIST, 49- Dir. ministry to agr. migrants, Pa. Coun. Churches, 50-53; resident theologian to Bishop Irenaeus, Kastelli, Greece, 66. Consult, United Church of Northern India, 65. Sociol. Asn; Rural Sociol. Soc; Acad. Polit. & Soc. Sci. The Union Church in Pennsylvania; multiple point charges in the ministry of the church; agricultural migrants in Pennsylvania; the rural church outside the United States. Address: 451 College Ave, Lancaster, Pa. 17603.

BARTHOLOMEW, DR. ELISE SMITH, Psychol, see 10th ed, Soc. & Behav. Vols.

BARTHOLOMEW, PROF. PAUL C(HARLES), b. Salem, Ohio, July 15, 07; m; c. 2. POLITICAL SCIENCE. A.B, Notre Dame, 29, A.M, 31; summers, Northwestern, 31-34; Ph.D, Kentucky, 38. Asst. POLIT, NOTRE DAME, 29-30, instr, 30-33, asst. prof, 33-36, assoc. prof, 36-42, PROF, 42-, acting head dept, 38-45. Vis. lectr, St. Mary's Col.(Ind), 37, 46-; vis. prof, Northwestern; Mich. State; Loyola (Ill); Chicago; Tennessee, 62; Nat. Univ. Ireland, 67; spec. asst, U.S. House Reps. Consult, U.S. Dept. Navy; State of Ind; City of Chicago. Polit. Sci. Asn. Metropolitan and American government; constitutional law. Publ: Leading cases on the constitution; American government under the constitution; Public administration. Address: 415 E. Pokagon St, South Bend, Ind. 46617.

BARTKO, DR. JOHN JERRY (JAROSLAV), Math. Statist, see Suppl. V to 11th ed, Phys. & Biol. Vols.

BARTLE, PROF. HARRISON FRED, b. Hornell, N.Y, June 20, 31; m; c. 2. POLITICAL SCIENCE. B.A, N.Y. State Col. Teachers, Albany, 52, M.A, 53; Syracuse, 57-61. Asst. prof. soc. sci, STATE UNIV. N.Y. COL. OSWEGO, 57-60, ASSOC. PROF. POLIT. SCI, 61- Res. assoc, N.Y. State Constitutional Convention, 67. Mem, President's Cmt. Juvenile Delinquency, 64-65. U.S.A, 54-56. Am. Acad. Arts & Sci. Management improvement in smaller cities. Address: Dept. of Economics & Political Science, State University of New York College at Oswego, Oswego, N.Y. 13126.

BARTLETT, PROF. C(HESTER) ROY, b. Alva, Okla, July 13, 06; m. 28; c. 3. PSYCHOLOGY, GUIDANCE. A.B, Oklahoma, 33, M.S, 34, fel, 42-43, Ed.D, 43. Prin, high sch, Okla, 27-29, teacher, 36-42, supt, pub. schs, 29-32; psychologist, traveling clin, U.S. Indian Serv, 35-36; with civil serv, U.S. Naval Air Sta, 43-45; psychometrist, Vet. Admin. Guid. Center, 46-48; PROF. PSYCHOL, E.CENT. STATE COL, 48- Consult, State Health Dept, Okla, 60- Psychol. Asn. Uses of present available information in guiding college freshmen and the employment of new techniques. Publ: Measurement of social attitudes; Some uses of analytical information for determining the guidance needs of low-ranking university men. Address: Dept. of Psychology, East Central State College, Ada, Okla. 74820.

BARTLETT, PROF. CLAUDE JACKSON, b. Columbus, Ohio, Oct. 1, 31; m. 53; c. 2. PSYCHOLOGY, STATISTICS. B.S, Denison, 54; M.A, Ohio State, 56, Ph.D.(quant. psychol), 58. Asst. PSYCHOL, Ohio State, 56-58; asst. prof, Peabody Col, 58-61; MARYLAND, 61-64, assoc. prof, 64-68, PROF, 68- James McKeen Cattell award, 66. Psychol. Asn. Psychological measurement; test and rating scale construction; research methods and design; correlational techniques; individual differences and organizational climate. Publ: Comparison of two methods of attitude measurement: Likert-type and forced choice; Factors affecting forced choice response; Comparison of six different scaling techniques. Address: Dept. of Psychology, University of Maryland, College Park, Md. 20740.

BARTLETT, DR. JAMES W(ILLIAMS), JR, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

BARTLETT, KATHARINE, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARTLETT, DR. MARION R(ACHAEL), b. Orleans, Vt, Oct. 30, 98. CLINICAL PSYCHOLOGY. B.S, Columbia, 24, A.M, 25, Ph.D.(psychol), 35; Paris, 27-28; Chicago, 47; dipl, Washington Sch. Psychiat, 52. Prof, Mary Washington Col, Virginia, 25-27; res, N.Y. State Psychiat. Inst. & Hosp. & med. center, Columbia, 32-34; fel, Yale, 34-35; prof. psychol, Wagner Col, 36-41; psychol, West. Md. Col, 41-43; chief personal adjustment counseling & voc. adv. supvr, Vet. Admin, 43-53; from lectr. to assoc. prof. psychol, George Mason Col, Virginia, 53-68; private psychotherapy practice. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 48. Fel. Psychol. Asn. Personality; psychotherapy; audition; dynamics of selfhood. Publ: Auditory threshold in reverie, Arch. Psychol; Sensory acuity in psychopathic individuals, Psychiat. Quart; Suggestibility in dementia praecox paranoid cases, J. Gen. Psychol. Address: 40 Hopper Ave, Pompton-Plains, N.J. 07444.

BARTLETT, DR. NEIL R(ILEY), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BARTLETT, PROF. ROLAND W(ILLEY), b. Orleans, Vt, Apr. 2, 00; m. 30; c. 1. AGRICULTURAL ECONOMICS. B.S, Cornell, 22, M.S, 24; Ph.D, Pa. State Col, 29. PROF. AGR. ECON, ILLINOIS, URBANA, 28- Expert witness, antitrust div, U.S. Dept. Justice, 38; Chicago Fed. Milk Orders, 39-61. Consult, 40- U.S. del, Int. Conf. Agr. Econ, Eng, 47. U.S.A, 18. Econ. Asn; Agr. Econ. Asn. Marketing dairy products; markets for farm and industrial products; governmental regulation of the dairy industry. Publ: The price of milk; The milk industry; Security for the people. Address: Dept. of Agricultural Economics, University of Illinois, Urbana, Ill. 61801.

BARTLETT, PROF. RUHL J(ACOB), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BARTLETT, THOMAS EDWARD, Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BARTLEY, PROF. ERNEST R(ANDALL), b. Lincoln, Nebr, May 11, 19; m. 42; c. 2. POLITICAL SCIENCE, URBAN PLANNING. A.B, Nebr. Wesleyan, 40; M.A, Nebraska, 41; Ph.D.(polit. sci), California, 48. Asst. prof. POLIT. SCI, Ore. State Col, 48-49; FLORIDA, 49-51, assoc. prof, 51-55, PROF, 55-; acting dir. pub. admin. clearing serv, 49-50, dir, 55-56. Ford fel, 54-55; dir. res, Fla. Constitution Adv. Cmn, 55-56. Planning & zoning consult, 53- U.S.A.A.F, 41-45, Lt. Col. Polit. Sci. Asn; Inst. Planners. American national government and constitutional and administrative law; land use control law. Publ: Co-auth, Text of a model zoning ordinance & Principles and problems of state and local government; auth, The Tidelands oil controversy, a Study in American federalism, Univ. Tex. 53. Address: 1050 S.W. 11th St, Gainesville, Fla. 32601.

BARTLEY, DR. S(AMUEL) HOWARD, Physiol, Psychol, see 11th ed, Phys. & Biol. Vols.

BARTON, PROF. ALLEN H(OISINGTON), b. Greenwich, Conn, Oct. 7, 24; m. 49; c. 4. SOCIOLOGY. A.B, Harvard, 47. Asst, bur. appl. soc. res, Co-

lumbia, 47-48, 50-54, instr, univ, 53-54; lectr. sociol, Oslo, 48-49; Soc. Sci. Res. Coun. training fel, 49-50; asst. prof. sociol, law & behav. sci. proj, law sch, Chicago, 54-57; asst. prof. sociol, COLUMBIA, 57-62, ASSOC. PROF. SOCIOL. & DIR. BUR. APPL. SOC. RES, 62-, res. assoc, 57-62. U.S.A, 43-46. Sociol. Asn. Sociol research methods; political sociology; sociology of formal organizations. Publ: Organizational measurement; Communities in disaster, Doubleday, 68; Organizations: methods of research, In: International encyclopedia of the social sciences. Address: Bureau of Applied Social Research, Columbia University, 605 W. 115th St, New York, N.Y. 10025.

BARTON, BERNARD, b. Sutton, Mass, Aug. 25, 03; m. 40; c. 2. ECONOMICS. S.B, Harvard, 24, M.B.A, 26. Asst. dir. financial surv. urban housing, U.S. Dept. Commerce, 34-35, chief div. for. trade statist, 39-42; assoc. dir. urban study consumer purchases, U.S. Bur. Labor Statist, 36-38; commodity cmt. secy, Combined Prod. & Resources Bd, 42-47; sr. economist, U.S. Tariff Cmn, 48-66; RETIRED. Econ. Asn; Planning Asn. International economics. Address: P.O. Box 164, South Laguna, Calif. 92677.

BARTON, F(RED) H(UBERT), Econ, Int. Affairs, see 10th ed, Soc. & Behav. Vols, deceased 64.

BARTON, DR. GLEN THOMAS, b. Louisiana, Mo, Sept. 20, 11; m. 35; c. 3. AGRICULTURAL ECONOMICS. B.S, Missouri, 33; Ferguson Found. Fund fel, Harvard, 49-50, M.A. & Ph.D.(econ), 50. Agr. economist, div. farm pop. & rural welfare, bur. agr. econ, U.S. DEPT. AGR, 39-42, labor div, off. agr. war rels, 42-43, labor, equip. & farm practices sect, div. farm mgt. & costs, 43-51, adv. to div. head farm labor res, 51-54, leader output & prod. unit, agr. res. serv, prod. econ. res. br, 54-58, head prod. needs & response invests, farm econ. res. div, 58-61, chief costs income & efficiency br, FARM PROD. ECON. DIV, ECON. RES. SERV, 61-63, dep. dir, 63-66, CHIEF PROD. ADJUSTMENTS BR, 66- Superior serv. award, U.S. Dept. Agr, 56. Agr. Econ. Asn. Economic analysis of past and prospective changes in aggregate farm production and resource productivity by broad regions and nation as a whole; administration of research program in farm production economics. Publ: Co-auth, Productivity of agriculture, United States, 1870-1958; Gains in productivity of farm labor; Progress of farm mechanization. Address: Farm Production Economics Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

BARTON, PROF. J(OHN) R(ECTOR), Rural Sociol, see 10th ed, Soc. & Behav. Vols, deceased 65.

BARTON, DR. MELVIN I, b. Brooklyn, N.Y, May 16, 33. NEUROPSYCHOLOGY. B.A, City Col. New York, 57, M.A, 60; Ph.D.(psychol), Clark, 64. Res. assoc. psychol, BOSTON VET. ADMIN. HOSP, 64-66, RES. PSYCHOLOGIST, 66-; ASST. RES. PROF. NEUROPSYCHOL, SCH. MED, BOSTON, 66- Consult. clin. psychol, Clark, 64- U.S.A, 53-55. Psychol. Asn; Int. Neuropsychol. Soc Study of the relationships between brain mechanisms and their behavioral consequences, particularly with regard to language, cognition and perception. Publ: Co-auth, Handedness and differential perception of verbal stimuli in left and right visual fields, 17: 851-854 & Differential recognition of tachistoscopically presented English and Hebrew words in right and left visual fields, 21: 431-437, Perceptual & Motor Skills; auth, An organismic-developmental approach to perception in individuals with ongoing neuromuscular asymmetries, In: Heinz Werner, Clark Univ. Monogr. Series, 66. Address: Dept. of Neurology, Boston University School of Medicine, 80 Concord St, Boston, Mass. 02118.

BARTON, PROF. SAM B(EAL), b. Marathon, Tex, June 12, 06; m. 34. ECONOMICS. B.A, Texas, 30, South. Fel. Fund fel, 31-32, M.A, 32, Ph.D. (labor econ), 38. Asst. prof. ECON, Austin State Teachers Col, 38-39; PROF, NORTH TEXAS STATE, 39- Economist, U.S. Dept. Labor, 52. U.S.A, 42-46. Econ. Asn; Indust. Rel. Res. Asn. Labor legislation; standards of living; economic support of higher education. Publ: Factors and forces in the movement for the abolition of child labor in the United States; How Texas cares for her injured workers; Indices of insurance company performance under the Texas workmen's compensation law. Address: Box 6015, North Texas Station, Denton, Tex. 76203.

BARTON, PROF. THOMAS F(RANK), Geol, Geog, see Suppl. II to 11th ed, Phys. & Biol. Vols.

BARTON, DR. WELDON VERNON, b. Red Rock, Tex, Aug. 14, 38; m. 65. POLITICAL SCIENCE. B.A, Southwest Tex. State Col, 62; M.A, Fla. State 63, Ph.D.(polit. sci), 65. ASST. PROF. POLIT. SCI, Southwest Tex. State Col, 65-67; TEX. TECH. COL, 67- Research methodology for the policy sciences of democracy. Publ: Interstate compacts in the political process, Univ. North Carolina, 67. Address: Dept. of Government, Texas Technological College, Lubbock, Tex. 79409.

BARTOS, PROF. OTOMAR JAN, b. Prague, Czech, Nov. 16, 27; m. 58; c. 5. SOCIOLOGY. B.A. & M.A, Colorado, 54; fel, Yale, 54-55, Ph.D.(sociol), 58. Instr. SOCIOL, Hawaii, 56-58, asst. prof, 58-66, assoc. prof, 66-67; PROF, PITTSBURGH, 67- Soc. Sci. Res. Coun. fel, 59-60; Nat. Sci. Found. grant, 61; prin. investr. into negotiation under grants, Air Force Off. Sci. Res, 62-67; vis. prof, Northwestern, 63-64; summer instr, Whittier Col, 58. Consult, Syst. Develop. Corp, Calif, 58-62; inst. behav. sci, Univ. Colorado, 66. Sociol. Asn. Mathematical sociology; social theory; negotiation. Publ: Two models of negotiation and some experimental evidence, In: Massarik & Ratoosh, Mathematical explorations in behavioral sciences, Irwin, 65; Concession-making in experimental negotiation, In: Berger et al. Sociological theories in progress, Houghton, 66; Simple models of group behavior, Columbia, 67. Address: Dept. of Sociology, University of Pittsburgh, Pittsburgh, Pa. 15213.

BARTOSHUK, PROF. ALEXANDER KARL, Psychol, see 11th ed, Phys. & Biol. Vols.

BARTSCH, DR. GLENN E(MIL), Biostatist, see 11th ed, Phys. & Biol. Vols.

BARTZ, DR. ALBERT EDWARD, b. Fergus Falls, Minn, Dec. 11, 33; m. 57. EXPERIMENTAL PSYCHOLOGY. B.A, Concordia Col, 55; M.A. North Dakota, 57; Nat. Sci. Found. fel, Arizona, 60-61, Ph.D.(psychol), 61. Instr. PSYCHOL, CONCORDIA COL.(MOORHEAD, MINN), 57-59, asst. prof, 61-64, ASSOC. PROF, 64- Res. grants, Nat. Insts. Health, 64-65 & U.S. Pub. Health Serv, 64-66; fel, Denver, 66-67. AAAS; Psychol. Asn. Human factors; visual perception; reaction time. Publ: Elementary statistics for educational measurement, Burgess, 58; Eye and head movements in peripheral vision, Science, 66; Fixation errors in eye movements to peripheral stimuli, J. Exp. Psychol, 67. Address: Dept. of Psychology, Concordia College, Moorhead, Minn. 56560.

BARTZ, DR. WAYNE H(ARLAN), b. Inglewood, Calif, Feb. 7, 37; m. 57; c. 2. PSYCHOLOGY. B.A, Western Michigan, 60, M.A, 61; Ph.D.(psychol), Purdue, 63. Asst. prof. PSYCHOL, Florida, 63-66; ASSOC. PROF, IOWA STATE, 66- Nat. Inst. Ment. Health res. grant, 67-69. Psychol. Asn; Psychonomic Soc. Human learning and memory; cognitive development; language; cognition and thought; concept learning. Publ: Readings in general psychology, Allyn & Bacon, 68; Memory, W.C. Brown, 68; co-auth, Meaningfulness and laterality in dichotic listening, J. Exp. Psychol, 67. Address: Dept. of Psychology, Iowa State University, Ames, Iowa 50010.

BARZANTI, DR. SERGIO, b. Rome, Italy, Oct. 4, 25; U.S. citizen; m. 54; c. 4. POLITICAL SCIENCE, HISTORY. J.D, Rome, 47; M.A, N.Y. Univ, 58. Ph.D. (area studies, int. rels), 62; Paris, 59-60. Asst. prof. SOC. SCI, FAIRLEIGH DICKINSON, 64-67, ASSOC. PROF, 67- Fulbright scholar, U.A.R, 65. Polit. Sci. Asn. European integration and European Common Market; underdeveloped countries; international studies, including relations, organization, and law. Publ: The underdeveloped areas within the Common Market, Princeton, 65, paperback, 68; contrib. to Encyclop. Americana, Encyclop. Int. & Cowles Comprehensive Encyclop. Address: 144-44 Union Turnpike, Flushing, N.Y. 11367.

BASCH, DR. ANTONIN, b. Czech, June 5, 96. ECONOMICS. Vienna, 18; Dr. Law & Polit. Sci, Prague, 19; Berlin, 20-21. Lectr. econ, Prague, 23-39; vis. prof, Brown, 40-42; lectr, Columbia, 42-46; chief economist, Int. Bank Reconstruct. & Develop, 46-61; CONSULT, 61- Prof, Univ. Bratislava, 23-26; head econ. & res. dept, Czech. Nat. Bank, 26-34; res. assoc. & consult, div. hist. & econ, Carnegie Endowment Int. Peace, 44-46; vis. prof, Michigan. Sr. adv, UN Center Indust. Develop, 65-66; consult, Inter-Am. Develop. Bd, 66-67; spec. consult, Asian Inst. Econ. Develop, 67. Econ. Asn. Publ: Theory of inflation; The Danube Basin and the German economic sphere; Financing economic development, Macmillan, 64. Address: 2 Tudor City Place, Apt. 7GS, New York, N.Y. 10017.

BASCOM, PROF. WILLIAM R(USSEL), b. Princeton, Ill, May 23, 12; m. 48. ETHNOLOGY. B.A, Wisconsin, 33, Santa Fe Lab. Anthrop. fel, 35, M.A, 36; univ. fel, Northwestern, 36-37, Ph.D.(anthrop), 39; Soc. Sci. Res. Coun. fel, Nigeria, 37-38. Asst. anthrop. & sociol, Wisconsin, 35-36; anthrop, Northwestern, 37-38, instr, 39-42, asst. prof. 46-49, assoc. prof, 49-54, prof, 54-57, acting chmn. dept. 41-42, 53, chmn. dept, 56-57, acting dir. prog. African studies, 56-57; PROF. ANTHROP. & DIR. LOWIE MUS, CALIFORNIA, BERKELEY, 57-, summer, prof. dept. decorative arts, 55. Viking Fund award, Cuba, 48; Fulbright fel, Nigeria, 50-51; Nat. Sci. Found. sr. fel, Cambridge, 58. With Off. Strategic Serv, 42; econ. analyst & chief, Bd. Econ. Warfare, Wash, D.C, 42-43; spec. rep, For. Econ. Admin, Brit. W. Africa, 42-46; economist, U.S. Commercial Co, Caroline Islands, 46. Mem. cmt, Nat. Res. Coun; mem. exec. bd, Am. Anthrop. Asn, 61-64. AAAS; Ethnol. Soc; fel. Am. Anthrop. Asn; fel. Folklore Soc.(pres, 52-54); fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; fel. Royal African Soc; Int. African Inst; Int. Soc. Ethnol. & Folklore. Ethnology of Africa, Micronesia, new world Negro and Plains Indians, especially folklore, art, religion, economics and kinship; acculturation; applied anthropology. Publ: Co-auth, Continuity and change in African cultures; auth, African arts, Univ. California, 67; Sociological role of the Yoruba cult group, Mem, Am. Anthrop. Asn. Address: Robert H. Lowie Museum of Anthropology, University of California, Berkeley, Calif. 94720.

BASEHART, PROF. HARRY W(ETHERALD), b. Zanesville, Ohio, Feb. 15, 10; m. 42. ANTHROPOLOGY. M.A, Harvard, 50, Ph.D.(soc. anthrop), 53. Asst. prof. anthrop, Goucher Col, 50-53; lectr. soc. anthrop, Harvard, 53-54; assoc. prof. ANTHROP, NEW MEXICO, 54-60, PROF, 60- Co-ed, Southwest. J. Anthrop, 62- Mem, Soc. Sci. Res. Coun. Seminar, summer 54; adv. panel anthrop, Nat. Sci. Found, 64-65; cultural anthrop. fel. rev. cmt, Nat. Inst. Ment. Health, 37-; assoc. Current Anthrop. U.S.A, 42-46, Capt. Fel. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc; Asn. Phys. Anthrop; fel. African Studies Asn; Int. African Inst. Problems of social structure and kinship; culture change; East Africa and American Indians. Publ: Ashanti, In: Matrilineal kinship, Univ. California, 61; co-auth, Changing political organization in the Jicarilla Apache reservation community, Human Orgn, 64; auth, The resource holding corporation among the Mescalero Apache, Southwest. J. Anthrop, 67. Address: Dept. of Anthropology, University of New Mexico, Albuquerque, N.Mex. 87106.

BASESCU, DR. SABERT, b. New York, N.Y, July 25, 26; m. 51; c. 3. PSYCHOLOGY. A.B, Dartmouth Col, 49; A.M, Princeton, 50, Ph.D.(psychol), 53. ADJ. ASSOC. PROF. PSYCHOL, GRAD. SCH. ARTS & SCI, N.Y. UNIV, 63- Private practice, 54-; consult. psychother, Vet. Admin, 62- U.S.N, 44-46. Psychol. Asn. Psychoanalytic psychotherapy; creative processes; personality theory. Address: 516 Hommocks Rd, Larchmont, N.Y. 10538.

BASH, PROF. WENDELL H(UBBARD), b. Sheridan, Wyo, Sept. 21, 12; m. 39; c. 3. SOCIOLOGY. A.B, Drake, 33, A.M, 35; A.M, Harvard, 37, Ph.D, 41. From instr. to assoc. prof. SOCIOL, COLGATE, 38-50, PROF, 50- Dir, Kyoto Am. Studies Seminar, 57. Sociol. Asn; Soc. Appl. Anthrop; Pop. Asn. Differential birth rates in New York state, 1865. Publ: Co-auth, Human relations: comments and cases; auth, Changing birth rates in developing America: New York State, 1840-1875, Milbank Mem. Fund Quart, 4/63. Address: Dept. of Sociology, Colgate University, Hamilton, N.Y. 13346.

BASHAM, PROF. CARL E, Econ, Law, see 10th ed, Soc. & Behav. Vols.

BASHAW, DR. WILBUR LOUIS, b. Louisville, Ky, Dec. 19, 36; m. 60. EDUCATIONAL PSYCHOLOGY, PSYCHOMETRICS. B.S, Fla. State, 58, M.S, 60,

Ph.D.(ed. res. & testing), 63. Res. assoc. higher ed, Fla. Bd. Regents, 63-64; asst. prof. ed. res. & testing, Fla. State, 64-65; ED. PSYCHOL, GEORGIA, 66-68, ASSOC. PROF, 68- Consult, Southeast. Regional Curriculum Proj, 66-68. Ed-in-chief, Fla. J. Ed. Res, 63-65. U.S.A.R, 52-58, Capt. Psychol. Asn; Psychomet. Soc; Nat. Coun. Measurement in Ed; Ed. Res. Asn. Educational measurement; statistical theory and methodology; higher education. Publ: Central prediction system models, Am. Ed. Res. J, 65; Correction for replicated error in correlation coefficients, Psychometrika, 67; Developmental study of the meaning of adverbial modifiers, J. Ed. Psychol, 68. Address: Dept. of Educational Psychology, Baldwin Hall, University of Georgia, Athens, Ga. 30601.

BASHFUL, DEAN EMMETT W(ILFORT), b. New Roads, La, Mar. 12, 17; m. 41; c. 1. POLITICAL SCIENCE. B.S, Southern Univ, 40; M.A, Illinois, 47, Ford fel, 54-55, Ph.D.(polit. sci), 55. Instr. polit. sci, Fla. Agr. & Mech. Univ, 48-50, asst. prof, 50-55, prof. & chmn. dept, 55-58; prof, Southern Univ, Baton Rouge, 58-59, DEAN, SOUTHERN UNIV, NEW ORLEANS, 59- U.S.A, 42-46. Polit. Sci. Asn. State government; constitutional law. Publ: Florida supreme court; Citizenship education in a dynamic society: some suggestions regarding scope and direction, J. Soc. Sci. Teachers. Address: Southern University, 6400 Press Dr, New Orleans, La. 70117.

BASHSHUR, DR. RASHID, b. Safita, Syria, May 8, 33; m. 57; c. 2. SOCIOLOGY. B.A, American Univ. Beirut, 54, M.A, 56; fel, Michigan, 57-59, Ph.D. (sociol), 62. Instr. sociol, American Univ. Beirut, 55-56; asst. prof, Eastern Michigan, 60-61, dir. spec. res. projs, 61-62; res. assoc. MED. SOCIOL, MICHIGAN, 63-68, ASSOC. PROF, 68- Proj. dir, grant award from U.S. Off. Ed, Dept. Health, Ed. & Welfare, 61-62, consult, 64-66, co-prin. investr, grant award from U.S. Pub. Health Serv, 66-69; res. consult, sch. ed, Wayne State, 63-64; center tech. & voc. ed, Ohio State, 67. Sociol. Asn; Pub. Health Asn; Acad. Polit. & Soc. Sci. Communication in community-school relationships and public support for the school; medical sociology, organization and ecology of medical care system; prepaid group practice; relation of medical care to social organization. Publ: Co-auth, Contemporary Arabic essay, Univ. Michigan, 64; Ecological patterns and value orientations in Lebanon, Pub. Opinion Quart, 58; Consumer satisfaction with group practice, the CHA case, Am. J. Pub. Health, 67. Address: School of Public Health, University of Michigan, Ann Arbor, Mich. 48104.

BASI, DR. RAGHBIR SINGH, b. Kharoudi, India, Sept. 12, 28. ECONOMIC DEVELOPMENT, BUSINESS ADMINISTRATION. B.A, British Columbia, 52, B.S.W, 53; fel, Harvard, 53-54, M.P.A, 54; Found. Youth & Student Affairs grant, 54-55; scholar, Cornell, 55-56, fel, 56-57, Ph.D, 59. Admin. asst, Vitro Eng. Co, Vitro Corp. of Am, 57-60; asst. prof. bus. admin, Kent State, 60-64, assoc. prof. bus. admin. & dir. grad. prog. int. econ. & bus. studies, 64-66; FORD FOUND. ADV, GOVT. SAUDI ARABIA, 67- Instr, N.Y. Univ, 60; summer vis. lectr, New Sch. Soc. Res, 60. Econ. Asn; Asn. Asian Studies; Asn. for Ed. Int. Bus; Indian Inst. Pub. Admin. Economic development administration. Publ: Determinants of United States private direct investment in foreign countries, Bur. Econ. & Bus. Res, Kent State, 63; Action administration, Asia Pub. House, Bombay, 67; Private industrial enterprise in the planned economic development of India. Address: 511 Miller Ave, Kent, Ohio 44240.

BASIL, PROF. DOUGLAS C(ONSTANTINE), b. Vancouver, B.C, May 30, 23; m. 50; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.Com, British Columbia, 49, B.A, 50; univ. scholar, Columbia, 49; Woods fel, Toronto, 49; Hudson's Bay Co. overseas scholar, London Sch. Econ, 49, dipl, 50; Ph.D, Northwestern, 54. Asst. prof. econ. & mgt, Marquette, 51-54; indust. mgt, Northwestern, 54-57; assoc. prof. MGT. THEORY, Minnesota, 57-61; PROF, SOUTHERN CALIFORNIA, 61- Consult, Pepsi-Cola Co. & Transcon Lines, 66- Can. Army, 43-46, Capt. Econ. Asn; Acad. Mgt. Management theory; industrial economics; business policy and organization planning; executive development. Publ: Executive development: a comparison of small and large enterprise; Organization and control of the smaller enterprise; co-auth, Decision-making through simulation, C. E. Merrill, 65. Address: Graduate School of Business Administration, University of Southern California, Los Angeles, Calif. 90007.

BASILE, PROF. DAVID G(IOVANNI), b. Youngstown, Ohio, Sept. 2, 14; m. 41; c. 2. GEOGRAPHY. A.B, Washington & Lee, 36; Chicago, 37; M.A, Columbia, 39. Instr. geog, Columbia, 37-41; Soc. Sci. Res. Coun. fel, 41-43; procurement specialist, Defense Supplies Corp, U.S. Govt, 43-44; chmn. Coord. Cmt. Ecuador, 45; acting pub. affairs officer, U.S. Info. Serv, U.S. Dept. State, Ecuador, 46-48; ASSOC. PROF. GEOG, NORTH CAROLINA, 49-, CHMN. DEPT, 67- Asn. Am. Geog; Am. Geog. Soc. Geography of Middle and South America and Latin America, particularly Ecuador; economic geography; problems affecting agrarian land use in Ecuador. Publ: Contrib, Atlas of North Carolina, Univ. North Carolina, 67. Address: Dept. of Geography, University of North Carolina, Chapel Hill, N.C. 27514.

BASILE, PROF. ROBERT M(ANLIUS), b. Youngstown, Ohio, Mar. 12, 16; m. 45; c. 3. GEOGRAPHY. B.S, Washington & Lee, 38; M.S, Mich. State, 40; Ph.D.(geog), Ohio State, 53. Instr. geol. & geog, Northwest. State Col, Okla, 40-42; GEOG, OHIO STATE, 50-53, asst. prof, 53-59, assoc. prof, 59-65, PROF, 65- U.S.N, 42-45, Res, 45-, Lt. AAAS; Asn. Am. Geog; Geog. Soc; Soc. Agron. Climatology; biogeography; soils; cartography. Address: Dept. of Geography, Ohio State University, Columbus, Ohio 43210.

BASIUK, PROF. VICTOR, b. Ukraine, Oct. 19, 32; nat. INTERNATIONAL RELATIONS. A.B, Haverford Col, 52; M.A, Columbia, 55, Ph.D.(int. law & rels), 56. Asst, Columbia, 53-55; staff mem. int. rels, Naval War Col, 57-60; vis. asst. prof. polit. sci, Washington (St. Louis), 60-61; lectr. GOVT, COLUMBIA, 61-64, RES. ASSOC. INST. WAR & PEACE STUDIES, 61-; ASSOC. PROF. POLIT. SCI, GRAD. PROG. SCI, TECH. & PUB. POLICY, CASE WESTERN RESERVE, 65- Consult, off. chief naval opers, U.S. Dept. Navy, 64-66; Exec. Off. President, 67- U.S.N, 57-60, Res, 60-, Lt. Comdr. Polit. Sci. Asn; Int. Studies Asn. The role of science and technology in international relations; national security; American foreign policy. Publ: The oceans—a new frontier for America's public policy?, summer 66 & Marine resources development, foreign policy, and the spectrum of choice, spring 68, Orbis; Statement, U.S. Senate Cmt. on Labor and Pub. Welfare, Spec. Subcmt. on Sea-Grant Cols, Hearings on S. 2439, 89th Cong, 2nd Session, May 2-5, 66. Address: Graduate Program on Science, Technology & Public Policy, Case Western Reserve University, Cleveland, Ohio 44106.

BASKA, LOUIS M, O.S.B, b. Kansas City, Kans, Oct. 24, 88. ECONOMICS. A.B, St. John's (Minn), 11, A.M, 21; summers, Wisconsin, 16, Chicago, 17-18; Ph.D, Catholic Univ, 33. Prin, high sch, St. Benedict's Col, 21-25, dir. col, 25-28, prof. econ, 31-59; RETIRED. Econ. Asn. History of the Slavs in the United States; historical background of European war; labor-management relations. Address: 7436 N. Ridge Blvd, Chicago, Ill. 60645.

BASKIN, PROF. CARLISLE W(HITEFORD), b. Lee Co, Va, Nov. 4, 18; m. 47; c. 3. ECONOMICS. B.S, South Carolina, 42; M.A, Virginia, 47, Ph.D, 57. Asst. prof. ECON. & acting head dept, RANDOLPH-MACON COL, 47-57, PROF. & CHMN. DEPT, 57- Richmond area univ. center grant, 53; Ford fel, Princeton, 58; fel, coop. prog. int. studies, Duke Univ. & Univ. North Carolina, 67-68. Summer participant, Gen. Elec. seminar, Univ. Chicago, 62, Iron & Steel Inst, 66, Asian Inst, Univ. Virginia, 66. U.S.N.R, 42-66, Lt. Comdr; Civil Air Patrol, Lt. Econ. Asn. Location of economic activity; cities; money and banking; economic theory; economic development of Chinese civilization; economic history. Publ: Central places in Southern Germany, trans. by Walter Christaller, Prentice-Hall, 5/66. Address: Box 74, Farrington Rd, Ashland, Va. 23005.

BASKIN, PROF. SAMUEL, b. Lithuania, Oct. 4, 21; nat; m. 46; c. 2. GUIDANCE, PSYCHOLOGY. B.A, Brooklyn Col, 42; M.A, N.Y. Univ, 48, Ph.D, 54. Counselor, Fedn. Guid. Serv, 46-48; lectr. ed, N.Y. Univ, 48-49; lectr. & counselor, Stephens Col, 49-51; from assoc. prof. guid. & psychol. to PROF. PSYCHOL. & DIR. PROG. DEVELOP. & RES. ED, ANTIOCH COL, 51-, dir, Ford Found. Fund Adv. Ed. studies, 56-64. Lectr, N.Y. Univ, summers 50-51, 54 & 56. Pres, Union Res. & Exp. Higher Ed, 65- Consult, U.S. Off. Ed, summer 60; N.Y. State Dept. Ed. & various cols, univs. & companies. U.S.A, 42-46, Sgt. Psychol. Asn; Asn. Higher Ed; Personnel & Guid. Asn; Nat. Instnl. Res. Forum. Teaching methods and independent study in higher education; group procedures. Publ: Ed, Higher education: some newer developments, McGraw, 65; auth, Quest for quality, In: new dimensions in higher education, U.S. Off. Ed, 61; Finding the mix—an overview of recent developments in higher education, In: Technology in education, Syracuse Univ, 66. Address: 215 E. Herman St, Yellow Springs, Ohio 45387.

BASOWITZ, DR. HAROLD, b. New York, N.Y, Sept. 9, 21. PSYCHOLOGY. A.B, Alabama, 47; M.A, Princeton, 50, Ph.D.(psychol), 51. Res. assoc. psychol, Princeton, 50-51; res. clin. psychologist, Michael Reese Hosp, Chicago, Ill, 51-56; assoc. prof. psychiat. & head psychol. sect, col. med, State Univ. N.Y. Upstate Med. Center, 56-60; training specialist, Nat. Inst. Ment. Health, 60-65; PROF. PSYCHOL. & DIR. RES. CENTER HUMAN RELS, N.Y. UNIV, 65- Lectr, Northwestern, 53-56; Syracuse, 57-60. Attend, Syracuse, Vet. Admin. Hosp, 57-60. Consult, Family Serv. Agency, N.J, 50-51; Syracuse Psychiat. Hosp, 57-60; Bristol Labs, Bristol-Myers Co, 57-60; Vet. Admin, 65-; res. grants, Nat. Inst. Ment. Health, 66- U.S.A, 43-46, Capt. AAAS; fel. Psychol. Asn. Anxiety and stress; cognitive functioning; psychosomatic research. Publ: Co-auth, Anxiety and stress, McGraw, 55; International opportunities for advanced research and training in psychology, Am. Psychol. Asn, 66. Address: 1 Washington Square Village, New York, N.Y. 10012.

BASRAN, DR. GURCHARN S, b. Badduwal, Punjab, India, Apr. 24, 35; m. 65; c. 1. SOCIOLOGY. B.A, Punjab, India, 57; univ. fels, Cornell, 60-64, Watumull Found. fels, 60-64, M.S, 61, Ph.D.(rural sociol), 65. Asst. rural sociol, Cornell, 61-64; vis. asst. prof. SOCIOL, Alfred, 64-65, ASST. PROF, SASKATCHEWAN, 65- Am. Sociol. Asn; Rural Sociol. Soc; Indian Soc. Exten. Ed. Adoption of new farm practices; community development programs in developing countries; sociological theory and social change. Publ: Co-auth, Some socio-economic aspects of declining areas, Cornell Univ, 62; auth, Factors related to the acceptance of new ideas and techniques in farming Punjab, India, Indian J. Exten. Ed, 68. Address: Department of Sociology, University of Saskatchewan, Saskatoon, Sask, Can.

BASS, PROF. BERNARD M(ORRIS), b. New York, N.Y, June 11, 25; m. 46; c. 2. PSYCHOLOGY. B.A, Ohio State, 46, M.A, 47, Ph.D, 49. Assoc. prof. psychol, La. State, 49-59, prof, 59-61; vis. prof, California, 61-62; prof, Pittsburgh, 62-68, dir. mgt. res. center, 66-68; PROF. PSYCHOL. & DIR. MGT. RES. CENTER, ROCHESTER, 68- Vis. prof, Inst. Adv. Mgt. Studies, Barcelona, Spain, 66; res. dir, European Res. Group on Mgt, 66-; Ford faculty fel, 66-67. Consult. psychologist, 48- Ed, Psychol. Reports. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F, 43-45. Fel. Psychol. Asn; Int. Asn. Appl. Psychol. Leadership and organizational behavior. Publ: Auth, Leadership, psychology and organizational behavior, Harper, 60; Organizational psychology, Allyn & Bacon, 65; co-auth, Training in industry: the management of learning, Wadsworth, 66. Address: 1409 Temple Bldg, University of Rochester, 14 Franklin St, Rochester, N.Y. 14604.

BASS, PROF. FRANK M(YRON), b. Cuero, Tex, Dec. 27, 26; m. 49. MARKETING. B.B.A, Southwestern, 49, M.B.A, Texas, 50; fel, Illinois, 54, Ph.D, 54. Asst. MKT, Illinois, 52-54; asst.prof, Texas, 54-58; assoc. prof, Ohio State, 58-61; PROF, PURDUE, 61- Fel, inst. basic math, Harvard, 59-60. U.S.N, 44-46. Mkt. Asn; Econ. Asn; Statist. Asn; Opers. Res. Soc. Marketing research; managerial decision theory, statistical. Publ: Co-auth, Applications of sciences in marketing management, Wiley, 67; auth, Mathematical models and methods in marketing. Address: School of Industrial Management, Purdue University, Lafayette, Ind. 47907.

BASS, JOHN L, Econ, see 10th ed, Soc. & Behav. Vols.

BASS, LIBBY G(ALST), b. U.S. Oct. 31, 07; m. 28; c. 2. CLINICAL PSYCHOLOGY. B.A, Illinois, 28; M.A, Northwestern, 29; Washington (St. Louis), 32-38. STAFF CONSULT. CLIN. PSYCHOL, JEWISH HOSP, 52- Instr, sch. med, Washington (St. Louis), 52- Consult. clin. psychologist, social agencies & child welfare orgns, 43- Dipl, Am. Bd. Exam. Prfnl. Psychol. Psy-

chol. Asn. Psychotherapy; infant testing; child development. Publ: Toward a validation of infant testing, Am. J. Orthopsychiat. Address: 4524 Forest Park Ave, St. Louis, Mo. 63108.

BASS, PROF. WILLIAM MARVIN, III, b. Staunton, Va, Aug. 30, 28; m. 53; c. 3. ANTHROPOLOGY. B.A, Virginia, 51; M.S, Kentucky, 56; Ph.D.(anthrop), Pennsylvania, 61. Admin. asst, Counseling off, Kentucky, 54-55, acting dir, 55-56; instr. phys. anthrop, grad. sch. med, Pennsylvania, 56-60; ANTHROP, Nebraska, 60; KANSAS, 60-61, asst. prof, 61-64, assoc. prof, 64-67, PROF, 67- Summers, phys. anthropologist, river basin survs, Smithsonian Instn, 56- H. Bernerd Fink award, Univ. Kansas, 65. U.S.A, 51-53. Fel. Anthrop. Asn; Asn. Phys. Anthrop. Physical anthropology; growth and development; fossil man; variation in physical types of American Indians; racial differences in maturation; human identification. Publ: 1960 excavation at the Leary site & Human skeletal material from the Huff site and a summary of mandan skeletal material, Nebr. Plains Anthropologist; Report on human skeletal remains from the Tollifero, Smithsonian Instn. Papers. Address: Dept. of Anthropology, University of Kansas, Lawrence, Kans. 66044.

BASSIE, V. LEWIS, b. Chicago, Ill, Dec. 22, 07; m. 37; c. 2. ECONOMICS. Ph.B, Chicago, 31. Sr. economist, Fed. Reserve Bd, 37-39; U.S. Dept. Commerce, 39-40, asst. to secy. commerce, 45-48; chief prod. analyst, War Prod. Bd, 41-44; adv, U.S. For. Trade, For. Econ. Admin, 44-45; DIR. BUR. ECON. & BUS. RES, ILLINOIS, URBANA, 48- Mem. conf. income & wealth, Nat. Bur. Econ. Res. Econ. Asn; fel. Statist. Asn; Economet. Soc. Publ: Economic forecasting. Address: 708 La Sell Dr, Champaign, Ill. 61820.

BASSIN, DR. ALEXANDER, b. Brooklyn, N.Y, Aug. 4, 12; m. 38; c. 3. PSYCHOLOGY, SOCIOLOGY. B.A, Brooklyn Col, 34; Columbia, 46-48; M.A, N.Y. Univ, 51, Ph.D, 57. Soc. worker, New York, 38-43; probtn. officer, probtn. dept, Kings County Court, 48-56, dir. psychol. testing serv, 56-61, dir. res. & case supvr, Supreme Court Probtn. Dept, 62-68; ASSOC. PROF. CRIMINOL. & CORRECTIONS, FLA. STATE, 68- Instr. grad. sch. ed, Yeshiva, 58-60, vis. prof, 61, adj. asst. prof, 61-63, adj. assoc. prof, Ferkauf Grad. Sch. Humanities & Soc. Sci, 64- Psycho-therapist, Baro Clin, 52-56; dir. group ther, Civic Center Clin, 56-68, assoc. dir. res, 62-65; consult, pub. schs, N.Y, 60-61; dir. res, Daytop Lodge, 62-68; Daytop Village, Inc, 65-68; reality ther. consult, N.Y. Training Sch, 67-68; coordinator, Reality Ther. Workship, New York, 67 & 68. C.Eng, U.S.A, 43-46. Psychol. Asn; fel. Sociol. Asn; fel. Group Psychother. Asn; Soc. Group Psychother. & Psychodrama. Reality therapy in school, correction and clinic; treatment of drug addicts by use of individual and group methods education and psychotherapy; group dynamics. Publ: Approach for drug addicts, Corr. Psychiat, 7/65; IRT therapy in marriage counseling, In: Counseling science and practice, 67; Daytop Lodge—a new treatment, In: Morality and mental health, 67. Address: 2417 Banyan Terr, Tallahassee, Fla. 32301.

BASSO, DR. KEITH HAMILTON, b. Asheville, N.C, Mar. 15, 40. ANTHROPOLOGY, LINGUISTICS. B.A, Harvard, 62; M.A, Stanford, 65, Ph.D. (anthrop), 67. ASST. PROF. ANTHROP, ARIZONA, 67- Ling. Soc; fel. Anthrop. Asn. Southwestern ethnography; enthnographic semantics; religion. Address: Dept. of Anthropology, University of Arizona, Tucson, Ariz. 85721.

BAST, DR. BENJAMIN F, Hist, Econ, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BASTIEN, DR. RÉMY, Soc. Anthrop, Rural Sociol, see 10th ed, Soc. & Behav. Vols.

BASTIAN, DR. JARVIS RULON, b. Pueblo, Colo, Jan. 14, 30; m. 50; c. 3. PSYCHOLOGY. A.B, Nevada, 52; Ph.D.(psychol), Minnesota, 56. Instr. psychol, Minnesota, 53-55; Michigan, 56-59; mem. staff, Haskins Labs, 59-61; fel. PSYCHOL, Center Adv. Study Behav. Sci, 61-62; lectr, California, Santa Barbara, 62-63; ASSOC. PROF, CALIFORNIA, DAVIS, 63- U.S.A, 47-49, Sgt. AAAS; Acoustical Soc; Ling. Soc. Psychological study of languages, speech and animal communication. Publ: Primate signaling systems and human language, In: Primate behavior, Holt, 65; Transmission of arbitrary environmental information between bottlenose dolphins, In: Animal sonar systems: biology and bionics, INRA-CNRZ, France, 67; Psychological perspectives in the study of animal communication, In: Communicative behavior in animals, Indiana Univ, 68. Address: Dept. of Psychology, University of California, Davis, Calif. 95616.

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sign of complex systems; human performance in reconnaissance systems; reconnaissance displays; system analysis methods; weapon system test and evaluation techniques. Publ: Co-auth, Human engineering testing and malfunction reporting in weapon system test programs; co-auth, A comparison of cock-pit warning systems, 67 & auth, Visual reconnaissance with two fields of view, 68, Aerospace Med. Res. Labs. Address: Performance Requirements Branch, 6570th Aerospace Medical Research Labs, Wright-Patterson Air Force Base, Ohio 45433.

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BATTIS, PROF. ROBERT A(LDEN), b. Arlington, Mass, Mar. 1, 21; m. 44; c. 2. ECONOMICS. B.S, Rutgers, 48; A.M, N.Y. Univ, 52, Ph.D, 58. Instr, Lehigh, 52-56; assoc. prof. ECON, Muhlenberg Col, 56-59; TRINITY COL. (CONN), 59-68, PROF, 68- Econ. Asn; Econ. Hist. Asn. Economic history and development; business history; comparative economic systems. Address: 130 Carriage Hill Dr, Wethersfield, Conn. 06109.

BATTISTELLA, DR. ROGER MATTI, b. Fitchburg, Mass, Nov. 3, 34; m; c. 1. PUBLIC HEALTH ADMINISTRATION. B.S, Massachusetts, 56; M.P.H, Michigan, 58, Ph.D.(med. care orgn), 65. Res. assoc, U.S. Senate Spec. Cmt. Aging, 60-61; ASST. PROF. MED. CARE ORGN, SLOAN INST. HOSP. ADMIN. & FACULTY COORDINATOR, HEALTH ADMINSTR. DEVELOP. PROG, CORNELL, 65-, DIR. STUDENT SUMMER PRACTICUM URBAN HEALTH AFFAIRS, 66- Consult, cmt. pub. health, N.Y. Senate, 65-66; mem. legis. study policy & resolutions cmt, med. care sect, Am. Pub. Health Asn, 66-68; cmt. constitution and by-laws, Asn. Univ. Progs. Hosp. Admin, 67- Medical care organization. Publ: The course of regional health planning: review and assessment of recent federal legislation, Med. Care, 5-6/67; Regional planning in New York State for hospitals and mental health, Pub. Health Reports, 9/67; Crisis in American medicine, Lancet, 3/68. Address: 313 Malott Hall, Cornell University, Ithaca, N.Y. 14850.

BATTISTINI, PROF. LAWRENCE HENRY, b. Montville, N.J, June 1, 07; m. 31; c. 1. INTERNATIONAL RELATIONS. B.A, Brown, 32; M.A, Trinity Col.(Conn), 41; Ph.D, Yale, 47. Instr, pub. schs, Conn, 34-43; chief polit. & econ. reports sect, Italian Div, Off. Strategic Serv, 44-45; spec. asst. to chief records br, Off. Price Admin, D.C, 46-47; ed. info. officer, civil info. & ed. sect, Supreme Comdr. Allied Powers, 47, chief econ. div, civil hist. sect, 47-52; prof. hist, Sophia Univ, Japan, 53-57; assoc. prof. SOC. SCI, MICH. STATE, 57-63, PROF, 63- Brown Univ. fel, Japan, 52-54; Gotham Found. fel, 54-56. Hist. Asn; Asn. Asian Studies; Oriental Soc; Acad. Polit. & Soc. Sci. Far Eastern history; political aspects of American foreign relations, especially the Asian areas; contemporary problems of Japan; problems of war and peace. Publ: The United States and Asia, Praeger, 55; Postwar student struggle in Japan, Tuttle, 56; Rise of American influence in Asia and the Pacific, Mich. State Univ, 60. Address: Dept. of Social Science, Michigan State University, East Lansing, Mich. 48823.

BATTLE, PROF. ALLEN OVERTON, b. Memphis, Tenn, Nov. 19, 27; m. 53. ANTHROPOLOGY, CLINICAL PSYCHOLOGY. B.S, Siena Col, 49; M.A, Catholic Univ, 53, Ph.D.(anthrop), 61. Instr. PSYCHIAT, COL. MED, TENNESSEE, 56-61, asst. prof, 61-66, ASSOC. PROF, 66- Spec. instr. psychology, Memphis State, 60-62; lectr, Southwestern at Memphis, 62- Clin. psychologist, Gailor Psychiat. Hosp, 53- Res. consult, Alcoholic Rehab. Center, 57-59; consult, Convent of Good Shepherd, 59-63; U.S. Pub. Health Serv, 63- AAAS; Psychol. Asn; Anthrop. Asn. Relationship between culture and personality in both its normal and abnormal ramifications; physical anthropology of psychotics; psychophysiology of emotional states; insights from far eastern philosophy on psychotherapy. Publ: Quasi-experimental research designs, Nursing Outlook, 64; Creative personality development, Insight, 66; Culture conflict and psychotherapy of adolescent patients, GP, 66. Address: Gailor Psychiatric Hospital, 42 N. Dunlap St, Memphis, Tenn. 38103.

BATTLE, DR. HUEY J(EFFERSON), b. Rusk, Tex, Oct. 31, 18; m. 42; c. 3. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Langston, 47; M.S, Wisconsin, 52; Ph.D, Okla. State, 54. Teacher, high sch, Okla, 47-50; asst. agr. econ, Wisconsin, 51-52; Okla. State, 52-54; prof. econ. & agr. econ. & dir. div. agr, Langston, 54-62; PROF. ECON. & HEAD DEPT, VA. STATE COL, 62- Employ. consult, U.S. Dept. Agr, 62, for. training div, For. Agr. Serv, 62. U.S.A.A.F, 42-44, Sgt. Econ. Asn. Agricultural and general economics, especially labor situations and consumer behaviors; enhancement of per capita income in low income pockets. Publ: Factors influencing high school graduates in the selection of colleges and universities; Economic understanding: paramount importance, Va. Teachers Asn, 64. Address: Dept. of Economics, Virginia State College School of Commerce, Petersburg, Va. 23803.

BATTLE, DEAN J(EAN) ALLEN, b. Talladega, Ala, June 15, 14; m. 40; c. 1. HUMAN RELATIONS. B.S, Middle Tenn. State Col, 37; M.A, Alabama, 41; Kellogg Found. fel, univ. fel. & Ed.D, Florida, 53. Head dept. health & phys. ed, Fla. South. Col, 40-42, 46-48, dean students, 49-56, summer sch. dir, 51-56, dean col, 56-59; DEAN COL. ED, SOUTH FLORIDA, 59-, summer sch. dir, 61. Exec. dir, Fla. Citizenship Clearing House, 56-57. Consult, Fla. State Dept. Ed. Cmt. Accreditation, 60; Jacksonville, 61; exec. cmt, South. Coun. Teacher Ed. U.S.A.A.F, 42-46, Capt. United States government and student human relations. Publ: The new idea in education; Education for the culture and education for the contemporary world. Address: College of Education, University of South Florida, Tampa, Fla. 33618.

BAUDE, PROF. WALTER A(NDREW), b. Cincinnati, Ohio, Jan. 15, 96; m. 21; c. 2. STATISTICS, ECONOMICS. Ch.E, Cincinnati, 18, B.S.Com, 26. Res. chem, E.I. du Pont de Nemours & Co, 19-22; coordinator chem. eng, CINCINNATI, 23-26, from assoc. prof. econ. to prof. STATIST, 26-66, EMER. PROF, 66- U.S.A, 17-19, 42-47, Col. Statist. Asn; Econ. Asn; Economet. Soc. Business cycle research, especially cyclical variation based on characteristics of a sine curve as evidenced by ratios of various difference formulas to replace the traditional residue-from-trend techniques. Address: 3416 Brookline Ave, Cincinnati, Ohio 45220.

BAUDER, PROF. RUSSELL S(TICKNEY), b. Elburn, Ill, Aug. 20, 02; m. 29; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. B.S, Knox Col, 24; A.M, Wisconsin, 25, Ph.D, 33. Instr. econ. & finance, MISSOURI, 27-29, asst. prof, 30-34, assoc. prof, 34-39, PROF. ECON, 40- Assoc. dir, State Employ. Serv, Mo, 34-35; chmn. regional labor mgt. cmt, U.S. Conciliation Serv, 46-47. V.chmn, Regional War Labor Bd, 42-45; v.chmn. & chmn, Regional Wage Stabilization Bd, 51-52. Econ. Asn; Labor Res. Asn; Acad. Arbit. Labor market in Missouri in relation to unemployment compensation; national collective bargaining in the foundry industry. Address: Dept. of Economics, University of Missouri, Columbia, Mo. 65201.

BAUDER, DR. WARD W, b. Pauline, Nebr, May 31, 13; m. RURAL SOCIOLOGY. B.S, Nebraska, 36, M.S, 38; Ph.D, Cornell, 48. Asst. prof. rural sociol. & asst. rural sociologist, Kentucky, 48-49, acting head dept, 49-50, prof. & rural sociologist, 50-54; prof. rural sociol, Illinois, 54-56; soc. sci. analyst, ECON. RES. SERV, U.S. DEPT. AGR, 56-67, SOCIOLOGIST, 67- Prof, Iowa State, 63-68; Cornell, 68- Sociol. Asn; Rural Sociol. Soc.(secy-treas, 54-58). Rural social organization. Address: Dept. of Rural Sociology, Cornell University, Ithaca, N.Y. 14850.

BAUER, BERTRAND NICHOLAS, Statist, see 10th ed, Soc. & Behav. Vols.

BAUER, PROF. E. THEODORE, Sociol. of Relig, see 10th ed, Soc. & Behav. Vols.

BAUER, DR. HERBERT J(OSEPH), b. Frankfurt, Germany, Aug. 11, 22; nat; m. 51; c. 5. PSYCHOLOGY. Fel. & Ph.B, Detroit, 49, M.A, 50; fel, Loyola (Ill), 50, Ph.D.(psychol), 54. Asst. prof. psychol, Loyola (Ill), 50-54; Detroit, 54-59; sr, res. psychologist, human factors group, RES. LABS, GEN. MOTORS CORP, 59-64, dir. human factors eng, Allison Div, 64-67, SR. PSYCHOLOGIST, 67- Adj. prof, Detroit, 60- Mem. hwy. res. bd, Nat. Acad. Sci-Nat. Res. Coun. U.S.A.A.F, 42-43; U.S.A, 43-46. AAAS; Psychol. Asn; Human Factors Soc; Ord. Asn. Psychological experimental methodology; design of psychological apparatus; psychophysics; road-driver-vehicle systems; simulation techniques; design of military vehicles and equipment; training devices. Address: General Motors Research Labs, Warren, Mich. 48090.

BAUER, DR. JOHN, b. Berlin, Germany, Jan. 21, 21; nat; m. 55; c. 1. PSYCHOLOGY. B.S.S, City Col. New York, 42; M.S, Boston, 47; Ph.D.(psychol). N.Y. Univ, 52. Psychotherapist, Child Guid. Unit, Newark, N.J. 47-49; from instr. to ASST. PROF. PSYCHOL, CITY COL. NEW YORK, 49- Practicing psychotherapist, 53-; chief psychol. serv, Univ. Consult. Center, 56-63. Consult, Drivers Safety Serv, N.Y, 59- U.S.A, 42-44. Psychol. Asn: Orthopsychiat. Asn; Group Psychother. Asn; Asn. Psychiat. Treatment of Offenders. Psychotherapy with adolescents. Publ: Similarities and differences of personality and manifest behavior in one set of monozygotic twins: Factor of coincidence in personality formation, Ed. Res. Bull; Vestibular technique in teaching psychology, Perceptual & Motor Skills, 63. Address: 115 E. 89th St, New York, N.Y. 10028.

BAUER, DR. JOHN, b. Saratov, Russia, Feb. 25, 81; nat. ECONOMICS. A.B, Doane Col, 04, hon. LL.D, 35; A.B, Yale, 06, Ph.D, 08. Instr. & asst. prof. econ, Cornell, 08-14; statistician first dist, Pub. Serv. Cmn, N.Y, 14-16, chief div. accts, 17-19; asst. prof. econ, Princeton, 16-17; pub. utility expert, Corp. Counsel's Off, N.Y, 20-30; dir, Am. Pub. Utilities Bur, 28-55, DIR, PUB. ADMIN. SERV, 55-; CONSULT. ECONOMIST PUB. UTILITIES, 30- Econ. Asn; Soc. Pub. Admin; Int. City Mgr. Asn. Effective regulation of public utilities; public utility valuation for purposes of rate control; public organization of electric power. Publ: Transforming public utility regulation: Updating public utility regulation, Pub. Admin. Serv, 66. Address: 144 Fairmount Ave, Chatham, N.J. 07928.

BAUER, PROF. RAYMOND A(UGUSTINE), b. Chicago, Ill, Sept. 7, 16; m. 41; c. 1. PSYCHOLOGY. B.S, Northwestern, 43; M.A, Harvard, 48, univ. fel, 48-50, Ph.D.(soc. psychol), 50. Res. assoc, center int. studies, Mass. Inst. Tech, 53-55, assoc. prof. soc. psychol, 55-60; PROF. BUS. ADMIN, HARVARD, 60-, lectr, 50-55, Ford Found. vis. prof, 57-60. Fel, Center Adv. Studies Behav. Sci, 55-56; mem. cmt. SST-boom & chmn. subcmt. human response, Nat. Acad. Sci-Nat. Res. Coun, 65-, mem. ad hoc cmt. appl. sci, 66-67, exec. cmt, cmt. hearing, bioacoustics & biomech. & cmt. soc. & behav. urban res, 67- U.S.N.R, 44-46. Psychol. Asn; Asn. Pub. Opinion Res. (pres, 65-66). Communications; political behavior; policy formation. Publ: Ed, Social indicators, M.I.T. Press, 66; co-auth, American business and public policy, Atherton, 63; Advertising in America: the consumer point of view, Harvard Bus. Sch, 68. Address: 16 Highland St, Cambridge, Mass. 02138.

BAUER, DR. ROBERT W(ILLIAM), b. Indianapolis, Ind, June 23, 23. PSYCHOLOGY. Ph.B, Chicago, 48, Ph.D.(psychol), 53. Instr. psychol, Rockford Col, 53; clin. psychologist, Vet. Admin. Hosp, Sheridan, Wyo, 54-55; chief psychologist, Evansville State Hosp, 55-58; prof. psychol, Radford Col, 58-62; RES. PSYCHOLOGIST, U.S. ARMY HUMAN ENG. LABS, 62- Adj. asst. prof, Delaware, 65- U.S.A, 43-46. AAAS. Physiological; sensory psychology; human factors; vision; hearing. Address: U.S. Army Human Engineering Labs, Aberdeen Proving Ground, Md. 21005.

BAUER, PROF. ROYAL D(ANIEL) M(ICHAEL), b. Union, Mo. Oct. 25, 89; m. 21; c. 3. ACCOUNTING. B.S, Missouri, 23; M.B.A, Northwestern, 35. From instr. to prof. acct, MISSOURI, 29-60, chmn. dept. acct. & statist, 41-56, auditor, 44-45, EMER. PROF. ACCT, 60- Mem, Am. Inst. Cert. Pub. Acct. U.S.N, 17-19. Am. Acct. Asn. Federal income taxes. Publ: Co-auth, Elementary accounting; Auditing. Address: University of Missouri, 317 B. & P.A. Bldg, Columbia, Mo, 65201.

BAUERNFEIND, PROF. ROBERT H(OWARD), b. Chicago, Ill, July 19, 25; m. 45; c. 3. PSYCHOLOGY. A.B, Cornell Col, 47; M.S, Purdue, 48, Ph.D. (psychol), 52. Asst. prof. psychol. & ed, Carleton Col, 48-52; dir. test dept, Sci. Res. Assocs, 52-61; ed. res, Nat. Col. Ed, 61-63; PROF. ED. PSYCHOL, NORTHERN ILLINOIS, 63- Proj. consult, Scholastic Testing Serv, Ill, 61-U.S.N. 43-46, Lt.(jg). Psychol. Asn. Test construction and validation; curriculum evaluation and improvement; personal vocational counseling. Publ: Building a school testing program, Houghton, 63; Measuring children's strength of response to attitude items, Ed. & Psychol. Measurement; Are sex norms necessary? J. Coun. Psychol. Address: Dept. of Educational Psychology, Northern Illinois University, De Kalb, Ill. 60115.

BAUGH, PROF. RUSSELL H(UGH), Econ, see 10th ed, Soc. & Behav. Vols.

BAUGHMAN, ERNEST T(HEODORE), b. Iowa, Dec. 27, 15; m. 40; c. 3. ECONOMICS. M.S, Minnesota, 41. Asst. prof, Minnesota, 40-42; from economist to V.PRES. & DIR. RES, FED. RESERVE BANK OF CHICAGO, 46- Lectr, sch. banking, Wisconsin, 50-60. Ed, Bus. Conditions. Consult, Cmn. For. Econ. Policy, 54; Cmn. Agr. Surplus Disposal, 55. U.S.N, 43-45. Econ. Asn; Agr. Econ. Asn; Can. Agr. Econ. Asn; Finance Asn. Agricultural economics; business economics. Publ: Co-auth, Financial and economic survey of the meat packing industry. Address: Federal Reserve Bank, 230 S. LaSalle St, Chicago, Ill. 60690.

BAUGHMAN, DR. JAMES P, Bus. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAUGHN, DEAN WILLIAM H(UBERT), b. Marshall Co, Ala, Aug. 27, 18; m. 48; c. 2. FINANCE, BUSINESS ADMINISTRATION. B.S, Alabama, 40; M.A, Virginia, 41, Ph.D, 48. Instr, Virginia, 41-43, asst. prof, 46-48; assoc. prof. econ. & bus. admin, La. State, 48-53, prof, 53-56; prof. finance, Texas, 56-62, chmn. dept, 56-59, assoc. dean col. bus. admin, 59-62; prof. finance & dean sch. bus. & pub. admin, Missouri, 64-66; PROF. FINANCE & DEAN SCH. BUS. COLORADO, 66- Assoc. dir, Sch. Banking of South, 51-66; dir. Stonier Grad. Sch. Banking, Rutgers, 66- Consult. & proj. dir, ed. works, Am. Bankers Asn, N.Y. U.S.A.F, 42-46, Res, 47-, Maj. Finance Asn. Business finance; money and capital market areas. Publ: Co-auth, Financial planning and policy; co-ed, Bankers' handbook, Dow, 66; auth, Economic expansion of Louisiana, Gulf Coast and the South. Address: School of Business, University of Colorado, Boulder, Colo. 80302.

BAUM, DR. BERNARD H(ELMUT), b. Giessen, Germany, Apr. 18, 26; U.S. citizen; m. 53; c. 4. SOCIOLOGY. Ph.B, Chicago, 48, M.A, 53, Ph.D. (sociol), 59. Qualifications rating exam. & bd. adv, U.S. Civil Serv. Cmn, 52-54; dir. orgn. anal, Continental Casualty & Continental Assurance Co, 60-66; ASSOC. PROF. SOCIOL. & MGT, COL. BUS. ADMIN, ILLINOIS, CHICAGO, 66-, assoc. dean, 67-68. Lectr, Roosevelt, 55-66; grad. sch. bus, Univ. Chicago, 61-65. Consult, 55-59. Ford Found. award, 60. Mil. Intel, 44-46, Res, 46-, Maj. Sociol. Asn; Indust. Rels. Res. Asn. Industrial relations; sociology of administration; human relations in complex organizations; behavioral sciences theory of organization decision making and administrative processes. Publ: Decentralization of authority in a bureaucracy; Organization of business research, Univ. Wash. Bus. Rev; co-auth, Centralization of control: an empirical study of its meaning and measurement, J. Bus, 1/67. Address: Dept. of Sociology & Management, College of Business Administration, University of Illinois at Chicago Circle, Box 4348, Chicago, Ill. 60680.

BAUM, DR. EDWARD, b. New York, N.Y, May 29, 35; m. 59; c. 1. POLITICAL SCIENCE. B.A, California, Los Angeles, 57, Scott fel, 62-64, Ph.D. (polit. sci), 64. Lectr. polit. sci, San Fernando Valley State Col, 62-64; ASST. PROF. GOVT, OHIO, 64-, mem, univ/Agency Int. Develop Mission, Kano, Nigeria, 65-69. Polit. Sci. Asn; African Studies Asn. Politics and government in African countries, especially West Africa and Nigeria. Address: International Education Institute, Ohio University, Athens, Ohio 45701.

BAUM, DR. EMANUEL LESTER, b. New York, N.Y, July 15, 22; m. 46; c. 3. AGRICULTURAL ECONOMICS. B.S, Cornell, 42; M.S, Iowa State, 47, Ph.D, 49. Prof. & agr. economist, Washington State, 49-54; chief agr. econ. br, econ. res, Tenn. Valley Authority, 54-61; leader res. invests, econ. res. serv, U.S. Dept. Agr, 61-65, dir. regional develop. staff, 65-67; PRES. ACRES RES. & PLANNING LTD, TORONTO, 67- U.S.A, 42-46, Res, 46-56, Capt. Agr. Econ. Asn; Economet. Soc; Econ. Asn; Regional Sci. Asn. Marketing; production economics; economic growth and development of rural areas in United States; consumption economics; agricultural policy. Publ: Methodological procedures in the economic analysis of fertilizer data; Fertilizer innovations and resource use; Capital and credit problems in a changing agriculture. Address: 99 Ravensbourne Crescent, Islington, Ont, Can.

BAUM, DR. MARIAN H(OOPER), b. Detroit, Mich, Mar. 29, 21; m. 48; c. 3. PSYCHOLOGY. B.A, Ohio, 42; univ. fel. & M.S, Yale, 44, U.S. Pub. Health Serv. fel. & Ph.D.(psychol), 51. Instr. psychol, Yale, 51-53; psychologist, pub. schs, Ohio, 54-56; dir. ment. retarded children's prog, Lorain County, 56-58; clin. psychologist, state contract eval. & diag. clin, St. Christopher's Hosp. for Children, Phila, 59-60; CLIN. PSYCHOLOGIST, LORAIN COUNTY CHILD WELFARE BD, 60- Res. assoc, Tavistock Inst, London, Eng, 66-67. Consult. psychologist, Rehab. Center, Lorain County, 60- Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. Psychol. Asn; Asn. Ment. Deficiency; Orthopsychiat. Asn. Children's behavior and development; parent-child relationships; diagnosis and therapy for children and young adults. Address: 97 Parkwood Lane, Oberlin, Ohio 44074.

BAUM, PROF. MILTON S(ERF), b. Galena, Kans, Oct. 29, 16; m. 42; c. 3. ECONOMICS. B.S, California, Los Angeles, 39; M.B.A, Pennsylvania, 40; Ph.D.(econ), Southern California, 53. Asst. tariff analyst, Civil Aeronaut. Bd, D.C, 41; assoc. transportation rate expert, State Pub. Utilities Cmn, Calif, 51-53; instr. bus. admin, Loyola (Calif), 53-54; from asst. prof. to PROF. ECON, SACRAMENTO STATE COL, 54- Economist, Stanford Res. Inst, 62-63. Consult, State Assembly Interim Cmt. Ed, Calif, 55-; spec. consult, Calif. State Dept. Ed, 66-68. Econ. Asn. Transportation; public utilities; economic education. Publ: Economics of air cargo transportation, Univ. Southern California, 53; contrib, Economics of supersonic aircraft, Stanford Res. Inst, 64; auth, Economic education in California public schools, Calif. State Dept. Ed, 67. Address: Dept. of Economics, Sacramento State College, 6000 J St, Sacramento, Calif. 95819.

BAUM, DR. O(SCAR) EUGENE, b. Philadelphia, Pa, Oct. 26, 16; m. 47; c. 2. PSYCHOANALYSIS, PSYCHIATRY. A.B, Pennsylvania, 37, M.D, 43. PROF. PSYCHIAT. & DIR. RESIDENT TRAINING, WOMAN'S MED. COL. PA, 66- Consult, Vet. Admin. Ment. Hyg. Clin, Phila, 51-56; Family Serv. Asn. Phila, 54-62. Med.C, 44-46, Maj. AAAS; Psychoanal. Asn; Psychiat. Asn; Am. Med. Asn. Lower socio-economic patients. Publ: Activity in initial interviews with lower class patients, Arch. Gen. Psychiat; Psychotherapy of lower socio-economic patients, Int. Psychiat. Clins; Psychotherapy, dropouts and lower socio-economic patients, Am. J. Orthopsychiat. Address: 910 Medical Tower, 255 S. 17th St, Philadelphia, Pa. 19103.

BAUM, DR. WARREN C(HARLES), b. New York, N.Y, Sept. 2, 22; m. 46; c. 2. ECONOMICS. B.A, Columbia Col, 42; M.P.A. & M.A, Harvard, 48, Ph.D. (econ), 49. French desk officer, Econ. Co-op. Admin, 49-51; asst. chief, European regional staff, Mutual Security Agency, 51-53; economist, Rand Corp, 53-56; chief, network study off, Fed. Communications Cmn, 56-59; economist, INT. BANK RECONSTRUCT. & DEVELOP, 59-64, ASST. DIR. PROJS. DEPT, 64- Res. training fel, Soc. Sci. Res. Coun. U.S.A, 43-46, 1st Lt. Econ. Asn. International economic relations; government regulation of industry. Publ: The French economy and the state; Report of network broadcasting; Marshall plan and French foreign trade. Address: 7011 Arandale Rd, Bethesda, Md. 20014.

BAUM, PROF. WILLIAM CHANDLER, b. Three Rivers, Mich, Nov. 3, 31; m. 59; c. 1. POLITICAL SCIENCE. B.A, Kalamazoo Col, 55, M.A, 57; Ph.D, Iowa, 60. Assoc. prof. POLIT. SCI, Southeast Mo. State Col, 60-63; asst. prof, Creighton, 63-65; ASSOC. PROF, GRAND VALLEY STATE COL, 65- Polit. Sci. Asn. Political theory; American politics; philosophy of social science. Publ: God and man on the right, N.Am. Rev, 64; co-auth, The myth of the republican establishment, Dalhousie Rev, winter 65-66. Address: 112 Mason, Spring Lake, Mich. 49456.

BAUM, DR. WILLIAM MARK, b. New York, N.Y, Dec. 8, 39; m. 66; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Harvard, 61, Nat. Sci. Found. fel, 62-65, Ph.D.(psychol), 66. NATO fel. animal behavior, Cambridge, 65-66; RES. FEL. PSYCHOL, HARVARD, 66-, lectr, 67- Nat. Sci. Found. fel, 66-67. Animal behavior. Address: Dept. of Psychology, Harvard University, Cambridge, Mass. 02138.

BAUMAN, DR. GERALD, b. New York, N.Y, Jan. 31, 26; m. 45; c. 2. CLINICAL PSYCHOLOGY. A.B, Brooklyn Col, 47; Ph.D.(psychol), N.Y. Univ, 51. Trainee psychol, Vet.Admin, 47-51, staff psychologist, 51-55; Domestic Rels. Court, New York, 55-56; clin. instr. PSYCHIAT, ALBERT EINSTEIN COL. MED, 56-63, ASST. CLIN. PROF, 63-, DIR. PSYCHOL. SERVS, LINCOLN HOSP. MENT. HEALTH SERVS, 64- Consult, Bronx Munic. Hosp, 56-; clin. psychologist, Hunter Col, 56-58. U.S.N.R, 44-46. Psychol. Asn; Orthopsychiat. Asn; Acad. Psychother; Group Psychother. Asn. Individual, group and family therapy; community mental health. Publ: Co-auth, Creative variations in the projective techniques, C.C. Thomas, 60, Interaction testing in the study of marital dominance, Family Process, 9/66 & Interaction testing in assessment of marital intelligence, J. Abnorm. Psychol, 12/67. Address: 2211 Broadway, New York, N.Y. 10024.

BAUMAN, DR. IRWIN W(IEGNER), b. Sassamansville, Pa, July 4, 97. SOCIOLOGY. A.B, Bluffton Col, 23; B.D, Hartford Theol. Sem, 26, traveling fel, 26-28; Ph.D, Giessen, 29. Supv. prin, schs, Pa, 19-21; instr, Perkiomen Sch, 29; acting prof. hist, Bluffton Col, 29-30, asst. prof. sociol, 30-34, dir. div. soc. sci, 34-53, prof. sociol, 34-66; RETIRED. Pastor, New Stark Federated Church, 36-41. Past v.chmn. emergency relief bd, Gen. Conf. Mennonite Churches N.Am; Fel, Econ. in Action. Count Zinzendorf in Moravian Church history. Publ: Ed, Bluffton College, 1900-1950. Address: 124 W. Kibler St, Bluffton, Ohio 45817.

BAUMAN, PROF. R(ONALD) H(AWKINS), Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

BAUMAN, DR. W. SCOTT, b. Dayton, Ohio, Nov. 7, 30; m. 53; c. 3. FINANCE. B.B.A, Michigan, 53, M.B.A, 54; D.B.A, Indiana, 61. Security analyst, Wells Fargo Bank, 56-57; rep, Irving Lundborg & Co, 57-58; teaching assoc. FINANCE, Indiana, 59-61; asst. prof, Toledo, 61-64, ASSOC. PROF, 64-66; OREGON, 66- Investment consult, 53- Chartered financial analyst, Inst. Chartered Financial Analysts, 67. Graham & Dodd scroll award, Nat. Fedn. Financial Analysts, 64. U.S.A.F, 54-56, Res, 56-, Capt. Finance Asn. Investment theory and practices; evaluation of common stocks. Publ: Auth, Estimating the present value of common stocks, 63 & co-auth, Investment profit correlation, 68, Bur. Bus. Res, Michigan; auth, The flexible system, Bus. Res. Center, Toledo, 66. Address: 2155 W. 24th Ave, Eugene, Ore. 97405.

BAUMANN, DR. CAROL EDLER, b. Plymouth, Wis, Aug. 11, 32; m. 59; c. 2. INTERNATIONAL RELATIONS. B.A, Wisconsin, 54; Wilson fel, 54-56; Marshall scholar, London, 54-57, Ph.D, 57. Instr. polit. sci, Wisconsin, 57-59, res. assoc. nat. security studies, 58-59, 60-61; instr. POLIT. SCI, WISCONSIN, MILWAUKEE, 61-62, asst. prof, 62-67, ASSOC. PROF, 67-, DIR. INST. WORLD AFFAIRS, 64- Mem, Nat. Coun. World Affairs Orgn. Polit. Sci. Asn; Adult Ed. Asn; Soc. Citizen Ed. World Affairs. International relations and organizations; political integration of Western Europe; regionalism in world politics. Publ: Political cooperation in NATO; ed, Western Europe: what path to integration?, Heath, 67; Britain faces Europe, Polit. Sci. Quart. Address: Dept. of Political Science, University of Wisconsin, Milwaukee, Wis. 53201.

BAUMBACH, PROF. BERNARD C(LARE), b. Anaheim, Calif, Feb. 19, 25; m. 47; c. 2. SOCIOLOGY, ECONOMICS. B.A, Capital Univ, 47; M.A, Texas, 50. Instr. SOCIOL. & ECON, TEX. LUTHERAN COL, 50-53, asst. prof, 54-57, ASSOC. PROF, 58- Sociol. Asn; Rural Sociol. Soc; Soc. Sci. Study Relig. Sociology of religion, law and knowledge; social stratification; rural community. Publ: Church as a vehicle of community values in a changing rural economy. Address: Texas Lutheran College, Seguin, Tex. 75188.

BAUME, ALFRED H(ENRY), b. New York, N.Y, Aug. 6, 15; m. 42; c. 3. BUSINESS ECONOMICS. M.B.A, Chicago, 49. Econ. analyst, FORD MOTOR CO, 49-55, mgr. bus. res. dept, Mercury Div, 55-57, supvr. spec. proj, FINANCE STAFF, 57-63, SUPVR. DEMAND ANAL, 63- Instr, eve. div, Detroit, 50-55; Wayne State, 59-64. U.S.A, 42-45. Econ. Asn; Statist. Asn; Mkt. Asn. Economic analysis and forecasting; automotive analysis; international economics. Address: Finance Staff, Ford Motor Co, American Rd, Dearborn, Mich. 48121.

BAUMER, PROF. ELMER F(REDERICK), b. Minster, Ohio, Nov. 23, 23; m. 46; c. 5. AGRICULTURAL ECONOMICS. B.S, Ohio State, 45, M.S, 46, Ph.D.(agr. econ), 51. Asst. AGR. ECON, OHIO STATE, 44-46, 48-51, asst. prof, 51-54, assoc. prof, 54-61, PROF, 61-, ASSOC. DEAN GRAD. SCH, 66- Agr. Econ. Asn; Mkt. Asn. Dairy marketing. Address: Dept. of Agricultural Economics, Ohio State University, 164 W. 19th Ave, Columbus, Ohio 43210.

BAUMGART, GUENTHER, b. Davenport, Iowa, Dec. 10, 14; m. 38; c. 4. STATISTICS, ECONOMICS. B.S, Chicago, 37, M.B.A, 39. Mem. staff, Chicago Asn. Commerce & Indust, 39-53; exec. dir, Am. Home Laundry Mfrs. Asn, 54-58, PRES, 58-66; ASN. HOME APPLIANCE MFRS, 67- Statist. Asn; Mkt. Asn; Asn. Bus. Econ. Business management. Publ: Your business and postwar readjustments. Address: Association of Home Appliance Manufacturers, 20 N. Wacker Dr, Chicago, Ill. 60606.

BAUMGARTEL, PROF. HOWARD J, b. Trenton, N.Y, Nov. 6, 20; m. 64; c. 3. SOCIAL PSYCHOLOGY. A.B, Wabash Col, 42; M.B.A, Harvard, 47; Ph.D, Michigan, 56. Instr. econ. & human rels, Kansas, 48-51; asst. study dir. surv. res. center, Michigan, 51-53, study dir, 53-55; asst. prof. psychol, human rels. & bus, KANSAS, 55-59, assoc. prof, 59-64, PROF. PSYCHOL. & HUMAN RELS, 64-, chmn. dept. human rels, 55-66. Vis. prof, Indian Inst. Mgt, Calcutta, 63-64; Fulbright sr. lectr, Delhi Univ, 67-68. Mem, Kans. adv. cmt, U.S. Cmn. Civil Rights, 62-63; Inst. Appl. Behav. Sci, Nat. Training Labs. U.S.N.R, 42-45, Lt. Psychol. Asn; Sociol. Asn; Soc. Appl. Anthrop. Social psychology research in large scale organization; human relations training evaluation; teaching and research in application of social psychology to international problem areas, particularly social change and development. Publ: Co-auth, Readings in group development for managers and trainers, Taplinger, 67; auth, Background and organizational factors in absenteeism, Personnel Psychol; Leadership style as a variable in research administration, Admin. Sci. Quart. Address: 1415 W. 21st Terrace, Lawrence, Kans. 66044.

BAUMGARTNER, DR. H(ELMUT) W(ALTER), b. Frankfurt, Germany, Apr. 1, 21; nat; m. 57. ECONOMICS. M.S, Giessen, Germany, 48, Ph.D, 49; M.A, McGill, 56; Ph.D.(agr. econ), Minnesota, 60. Asst. agr, Vt. Exten. Serv, 51-52; res. asst. agr. econ, McGill, 52-53; Minnesota, 54-59; res. analyst labor econ, State Dept. Employ. Security, Minn, 60-61; instr. ECON, STATE UNIV. N.Y. COL. Oneonta, 61-62, assoc. prof, Geneseo, 62-63, ONEONTA, 63-65, PROF, 65- Ford Found. faculty res. fel, 62, summer study grant, Cornell, 63; summers, Alexander von Humboldt Found. faculty res. fel, Bonn, 65; State Univ. N.Y. Res. Found. fel, 67. Econ. Asn; Agr. Econ. Asn; Rural Sociol. Soc. Money and banking; potential mobility in West German agriculture. Publ: Co-auth, Rising land prices vs. declining farm incomes & Property taxes and the Minnesota farmer, Minn. Farm Bus. Notes; auth, Potential mobility in agriculture, J. Farm Econ, 2/65. Address: 1442 Hanshaw Rd, Ithaca, N.Y. 14850.

BAUMHOFF, DR. MARTIN A, b. Camino, Calif, Dec. 22, 26; m. 50; c. 4. ANTHROPOLOGY. A.B, California, 54, Ph.D, 59. Instr. ANTHROP, CALIFORNIA, DAVIS, 59-60, from asst. prof. to ASSOC. PROF, 60- U.S.A, 45-46. Anthrop. Asn; Soc. Am. Archaeol. Archaeology of western North America; statistical methods in anthropology; paleoecology. Publ: An introduction to Yana archaeology; California Athabascan groups; co-auth, Petroglyphs of Nevada and eastern California. Address: Dept. of Anthropology, 331 Voorhies Hall, University of California, Davis, Calif. 95616.

BAUMOL, PROF. WILLIAM J(ACK), b. New York, N.Y, Feb. 26, 22; m. 41; c. 2. ECONOMICS. B.S.S, City Col. New York, 42; Ph.D, London, 49; hon. LL.D, Rider Col, 65. Economist, U.S. Dept. Agr, 42-43, 46; asst. prof. ECON, PRINCETON, 49-52, assoc. prof, 52-54, PROF, 54- Guggenheim fel, 58; sr. economist, Mathematica Inc, Princeton, 62- Mem. Governor's Econ. Policy Coun, State of N.J, 66- Econ. Asn.(v.pres, 66-67); fel. Econemet. Soc. Economic theory. Publ: Business behavior value and growth; Economic theory and operations analysis; co-auth, Performing arts: The economic dilemma, 20th Century, 66. Address: Dept. of Economics, Princeton University, Princeton, N.J. 08540.

BAUMRIND, DR. DIANA, b. New York, N.Y, Aug. 23, 27; m. 48; c. 3. DEVELOPMENTAL & CLINICAL PSYCHOLOGY. B.A, Hunter Col, 48; M.A, California, 51, Ph.D, 55. Proj. dir, U.S. Pub. Health Serv, Univ. California, 55-58, proj. consult, State of Calif, 59-60; proj. dir, inst. human develop, CALIFORNIA, BERKELEY, 60-66, PROJ. DIR. PARENTAL AUTHORITY RES. PROJ, DEPT. PSYCHOL, 67- AAAS; Psychol. Asn; Soc. Res. Child Develop. Relationship of child training procedures to patterns of behavior in the preschool child. Publ: Auth, Effects of authoritative parental control on child behavior, 12/66 & sr. auth, Socialization practices associated with dimensions of competence in preschool boys and girls, Child Develop; 6/67; auth, Child care practices anteceding three patterns of preschool behavior, Genetic Psychol. Monogr, 2/67. Address: 2717 Marin Ave, Berkeley, Calif. 94708.

BAUR, PROF. E(DWARD) JACKSON, b. St. Louis, Mo, Jan. 31, 13; m. 39; c. 2. SOCIOLOGY. A.B, Chicago, 35, A.M, 38, Ph.D.(sociol), 42. Instr. soc. anthrop, Dillard, 39-41; economist, Chicago Regional Off, War Labor Bd, 42-43; head sample surv. unit, coord. & planning div, Vet. Admin, Ill, 46-47; asst. prof. SOCIOL. & ANTHROP, KANSAS, 47-49, assoc. prof, 49-59, PROF, 59- Fulbright lectr, Univ. Amsterdam, 61-62; Vienna, 68-69. Consult, Community Studies, Inc, Mo, 50-53. Hayhow award, Am. Col. Hosp. Adminstr, 64. U.S.A, 43-45. Sociol. Asn; Law & Society Asn. Sociology of youth; sociology of education. Publ: Trends of juvenile offences in the Netherlands and the United States, J. Criminal Law, Criminol. & Police Sci, Vol. 55: 359-69, 9/64; Achievement and role definition of the college student, Coop. Res. Proj, U.S. Off. Ed, 65; Student peer groups and academic development, Col. Student Surv, Vol. 1: 23-31, spring 67. Address: Dept. of Sociology, University of Kansas, Lawrence, Kans. 66044.

BAUSMAN, PROF. ROBERT OTIS, Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

BAVELAS, PROF. ALEX, b. Chicopee, Mass, Dec. 25, 13; m. 36; c. 1. PSYCHOLOGY. B.S, Springfield Col, 40; M.A, Iowa, 44; Ph.D.(group psychol), Mass. Inst. Tech, 48. Asst, child welfare res. sta, Iowa, 40-44; res. assoc. psychol, Mass. Inst. Tech, 44-45, instr, 45-47, asst. prof, 47-48, assoc. prof, 48-54, prof, 54-56; mem. staff. res. soc. commun, Bell Tel. Labs, Inc, 56-60; PROF. PSYCHOL, GRAD. SCH. BUS, STANFORD, 60- Fel, Nat. Coun. Relig. Higher Ed. Consult, Inst. Defense Anal. Mem, Defense Sci. Bd, 66-67. AAAS; Opers. Res. Soc. Patterns of communication in task oriented groups; mathematical properties of psychological space; topological and experimental group psychology; transmission of acquired information; social learning; modes of perception of probability. Address: 552 Alvarado Row, Stanford, Calif. 94305.

BAWDEN, DR. D(ENNIS) LEE, b. Wolf Point, Mont, Mar. 12, 34; m. 57; c. 2. AGRICULTURAL ECONOMICS. B.S, Montana State, 56, M.S, 59; Ph.D. (agr. econ), California, Berkeley, 64. Asst. prof. AGR. ECON, WISCONSIN, 63-67, ASSOC. PROF, 67- U.S.A.F, 57-60, 1st Lt. Agr. Econ. Asn.(pub. res. award, 67); Econ. Asn; Econemet. Soc. International trade; managerial economics; agricultural production economics; interregional competition. Publ: Co-auth, Interregional analysis of the United States turkey industry, Univ. Calif, 66; auth, An evaluation of alternative spatial models, 12/64 & A spatial price equilibrium model of international trade, 11/66, J. Agr. Econ. Address: Dept. of Agricultural Economics, University of Wisconsin, Madison, Wis. 53706.

BAXTER, DR. BRENT NELSON, b. Cleveland, Ohio, Feb. 24, 16; m. 39; c. 2. PSYCHOLOGY. B.A, Western Reserve, 37; M.A, Minnesota, 39, Ph.D.(psychol), 41. Asst, Minnesota, 37-40, instr, 40-41; psychol, Ohio State, 41-42; personnel technician, hq, Air Serv. Command, 42-44, chief personnel testing, hqs, Air Tech. Serv. Command, 44-45; indust. psychologist, Owens-Corning Fiberglas Corp, 45-47; dir. personnel res, Chesapeake & Ohio Rwy. Co, 47-48, asst. to v.pres. personnel, 48-49; dir. agencies res, Prudential Ins. Co, 49-66; EXEC. V.PRES. & DIR. RES, AM. INST. RES, 66- Mem. adv. cmt. testing Cmn. Equal Employ. Opportunity, 66- AAAS; Psychol. Asn. Methods of selection and placement of personnel; management development; market research; educational psychology; psychology applied in international setting. Publ: Employee-management relations, In: Current trends in industrial psychology; co-auth, Training evaluation study, Personnel Psychol. & Market research in the life insurance industry, Am. Col. Life Underwriters. Address: 500 Fairview Rd, Pittsburgh, Pa. 15238.

BAXTER, DR. JAMES C(LEVELAND), b. Tucson, Ariz, Jan. 3, 32; m. 53; c. 3. CLINICAL PSYCHOLOGY. A.B, Tex. West. Col, 55; Ph.D.(psychol), Texas, 59. Trainee psychol, Vet. Admin, 56-59; res. psychologist, John Umstead Hosp, Butner, N.C, 59-61; asst. prof. clin. psychol, Kentucky, 61-64; from asst. to ASSOC. PROF. PSYCHOL, HOUSTON, 64- U.S.M.C, 51-52, Sgt. Psychol. Asn. Experimental psychopathology; personality development; language behavior. Publ: Defensive style in families of schizophrenics and controls & co-auth, Anxiety and avoidance behavior in schizophrenics in response to parental figures, J. Abnorm. & Soc. Psychol; Mediated generalization as a function of semantic differential performance, Am. J. Psychol. Address: Dept. of Psychology, University of Houston, Houston, Tex. 77004.

BAXTER, DR. JAMES PHINNEY, III, b. Portland, Maine, Feb. 15, 93; m. 19; c. 3. INTERNATIONAL AFFAIRS. B.A, Williams Col, 14, M.A, Harvard, 22, Ph.D, 26; hon. degrees from 16 insts. Instr. hist, Harvard, 25-27, asst. prof, 27-31, assoc. prof, 31-36, prof, 36-37, master, Adams House, 31-37; pres, Williams Col, 37-61; sr. fel, Coun. For. Rels, 61-64; RETIRED. Lectr, Cambridge, 36; dep. dir, Off. Strategic Serv, D.C, 42-43; historian, Off. Sci. Res. & Develop, 43-46; chmn. adv. cmt. hist, U.S. Dept. Army, 43-52; U.S. Atomic Energy Cmn, 58- Mem, Soc. Am. Historians, pres, 45-46. Pulitzer prize, 47. Polit. Sci. Asn; Soc. Int. Law; Hist. Asn; fel. Am. Acad. Arts & Sci; Antiq. Soc. American diplomatic history; history of science; international relations; naval and military history. Publ: Introduction of the ironclad warship; Scientists against time. Address: Sweetbrook Nursing Home, Williamstown, Mass. 01267.

BAXTER, DR. LORAN FRANCIS, Clin. Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BAXTER, DR. MILDRED FRANCES, Psychol, see 10th ed, Soc. & Behav. Vols.

BAXTER, DR. STEPHEN B(ARTOW), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAY, PROF. CHRISTIAN, b. Oslo, Norway, Apr. 19, 21; m. 47, 59; c. 3. POLITICAL SCIENCE. Cand. jur, Oslo, 43, Ph.D.(polit. sci), 59. Res. fel. polit. sci, Oslo, 53-56; lectr, Mich. State, 57; asst. prof. speech, California, Berkeley, 57-62; res. assoc, inst. study human prob, Stanford, 61-66, lectr. POLIT. SCI, 64-66; PROF. & HEAD DEPT, ALBERTA, 66- Fel, Center Adv. Study Behav. Sci, Stanford, 54-55. Mem. coun, Inter-Univ. Consortium Polit. Res, 67. Polit. Sci. Asn.(Woodrow Wilson award, 59); Psychol. Asn; Soc. Study Social Probs. Political theory and behavior. Publ: The Structure of freedom, Stanford 58 & Atheneum, 65; The cheerful science of dismal politics, In: The dissenting academy, Pantheon, 68; Civil disobedience, In: International encyclopedia of the social sciences, MacMillan, 68. Address: Dept. of Political Science, University of Alberta, Edmonton, Alta, Can.

BAY, HELMUTH, Geog, see 10th ed, Soc. & Behav. Vols, deceased 64.

BAYARD, DR. JEAN, Psychol, see 10th ed, Soc. & Behav. Vols.

BAYER, DR. ALAN E, b. Webster, Mass, May 3, 39; m. 63; c. 1. SOCIOLOGY. B.S, Pa. State, 61; M.S, Fla. State, 63, Ph.D.(sociol), 65. Res. assoc. sociol, cmn. human resources & adv. ed, Nat. Acad. Sci, 65-67; DIR. SOCIOL. STUDIES, PROJ. TALENT, AM. INSTS. RES, 67- Sociol. Asn; Nat. Coun. Family Rels; Ed. Res. Asn. Sociology of education and science; marriage and the family; high level manpower; migration. Publ: Co-auth, Higher education and specialized talent: needs and resources, Russell Sage, 68; auth, Birth order and attainment of the doctorate, Am. J. Sociol, 3/67; Interregional migration and the education of American scientists, Sociol. of

Ed, spring 68. Address: Project TALENT, American Institutes for Research, P.O. Box 1113, Palo Alto, Calif. 94302.

BAYER, DR. HELEN T(ATE) M(cMULLEN), b. Buffalo, N.Y; m. 42, 54. CHILD PSYCHOLOGY, FAMILY SOCIOLOGY. B.S, State Univ. N.Y, 50; M.S, Cornell, 52, Ph.D.(child develop, family relationships, home econ. ed), 55. Teacher, high sch, N.Y, 50-51; asst. home econ. ed, CORNELL, 52-54, marriage & family relationships, 54-55, asst. prof. CHILD DEVELOP. & FAMILY RELATIONSHIPS, 55-60, assoc. prof, 60-66, PROF, 66- Fel. Sociol. Asn; Home Econ. Asn; Soc. Res. Child Develop. Analysis of home environment of young children; parent-child relationships; application of social science findings. Publ: The transition from childhood to adolescence, 64-66 & Play as learning, 66, Child Develop. & Family Relationships, Cornell. Address: 216 Forest Home Dr, Ithaca, N.Y. 14850.

BAYES, DR. JANE H, b. New York, N.Y, Jan. 17, 39; m. 61. POLITICAL SCIENCE. B.A, Smith Col, 60; M.A, California, Los Angeles, 63, Falk fel, 66-67, Ph.D.(polit. sci), 67. Teacher, high sch, Tex, 60-61; ASST. PROF. POLIT. SCI, SAN FERNANDO VALLEY STATE COL, 68- Lectr,California, Los Angeles, summer 68. Polit. Sci. Asn;Sociol. Asn. Metropolitan political sociology in the United States. Publ: Co-auth, Domains and universes: problems in the concerted use of multiple date files for social science inquiries, M.I.T. Press, (in press). Address: Apt. 8, 10840 Lindbrook Dr, Los Angeles, Calif. 90024.

BAYLEN, PROF. J(OSEPH) O(SCAR), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BAYLESS, MAJ. OVID LYNDAL, U.S.A.F, Speech Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BAYLEY, DR. NANCY, b. The Dalles, Ore, Sept. 28, 99; m. 29. PSYCHOLOGY. B.S, Washington (Seattle), 22, fel, 22-24, M.S, 24; Ph.D.(psychol), Iowa, 26. Asst, Iowa, 24-26; instr. psychol, Wyoming, 26-28, res. assoc, inst. child welfare, California, 28-54, lectr. psychol, 47-54; chief sect. child develop, lab. psychol, Nat. Inst. Ment. Health, 54-61; res. psychologist, inst. human develop, California, 61-62; chief sect. early develop, lab. psychol, Nat. Inst. Ment. Health, 62-64; res. psychologist, INST. HUMAN DEVELOP, CALIFORNIA, BERKELEY, 64-68, CONSULT. PSYCHOLOGIST, 68- Res. assoc, Stanford, 39-40, 51-52; Nat. Inst. Ment. Health res. grant, 64- Cert. in clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 48. Fel. AAAS; fel. Soc. Res. Child Develop.(pres, 61-63); Nat. Ed. Asn; Ed. Res. Asn; Geront. Soc; fel. Psychol. Asn.(distinguished sci. contribution award, 66). Growth of intelligence; physical growth in size and changing body proportions personality in development. Publ: Co-auth, Growth diagnosis, Univ. Chicago, 59; auth, Child development, In: Encyclopedia of educational research, Macmillan, 50; co-auth, Correlations of maternal and child behaviors with the development of mental abilities: data from the Berkeley Growth Study, Monogr. Soc. Res. Child Develop, 64. Address: Institute of Human Development, University of California, Berkeley, Calif. 94720.

BAYROFF, DR. A(BRAM) G(USTAVUS), b. Newark, N.J, June 8, 06. PSYCHOLOGY. B.S, N.Y. Univ, 27; fel, North Carolina, 27-30, M.A, 29, Ph.D. (psychol), 31. Asst, North Carolina, 30-31, Nat. Res. Coun. fel. psychol, 31-32; California, 32-33, instr, 33-34; North Carolina, 35-37, asst. prof, 37-43; sr. analyst, Nat. Defense Res. cmt. projs, Pennsylvania, 43-45; RES. PSYCHOLOGIST, U.S. ARMY BEHAV. SCI. RES. LAB, 46-, CHIEF INPUT QUAL. RES, 56- AAAS; fel. Psychol. Asn; Psychonomic Soc. Personnel research; animal behavior; technical information. Address: 4822 N. 14th St, Arlington, Va. 22205.

BAYTON, PROF. JAMES A(RTHUR), b. Whitestone, Va, Apr. 5, 12; m. 39. PSYCHOLOGY. B.S, Howard, 35, M.S, 36; Ph.D.(psychol), Pennsylvania, 43. Asst. prof. psychol, Va. State Col, 39-43; soc. sci. analyst, U.S. Dept. Agr, 43-45; PROF. PSYCHOL, Southern Univ, 45-46; Morgan State Col, 46-47; HOWARD, 47-; V.PRES, NAT. ANALYSTS, INC, 58- Superior serv. award, U.S. Dept. Agr, 54. Fel. Psychol. Asn; Mkt. Asn.(award, 58); Asn. Pub. Opinion Res. Motivation; consumer behavior. Address: Dept. of Psychology, Howard University, Washington, D.C. 20001.

BAZELON, JUDGE DAVID L(IONEL), b. Superior, Wis, Sept. 3, 09; m. 36; c. 2. LAW. B.S.L, Northwestern, 31; hon. LL.D, Colby Col, 66. Asst. U.S. Attorney, North. Dist. Ill, 35-40; sr. mem, Gottlieb & Schwartz, 40-46; asst. attorney gen. in charge lands div, U.S. Dept. Justice, 46-47, off. alien property, 47-49; circuit judge, U.S. COURT OF APPEALS, 49-62, CHIEF JUDGE, 62- Lectr, law sch, Pennsylvania, 57-59; vis. Sloane prof, Menninger Found, Kans, 60-61; Regent's lectr, California, Los Angeles, 64; mem. faculty & lectr, sch. med, Hopkins, 64-; clin. prof, George Washington, 66- Mem, President's Panel Ment. Retardation, 61-62; bd. dirs, Joint Cmn. Ment. Health of Children, Inc, 65-; prog. on tech. & soc. adv. cmt, Harvard, 66-; nat. adv. ment. health coun, U.S. Pub. Health Serv, 67-71. Trustee, Salk Inst. Biol. Studies, 61- Ray award lect, Univ. Chicago, 61; White lect, Georgetown, 64; Lowell Inst. lect, Harvard Med. Sch, 64; Niles Mem. lect, Hebrew Univ, Israel, 66. Orthopsychiat. Asn.(pres. elect, 68-69). Publ: The imperative to punish, Atlantic Monthly; Awesome decision, Sat. Eve. Post; Interface of law and the behavioral sciences, New Eng. J. Med, 64. Address: U.S. Court House, Washington, D.C. 20001.

BEACH, PROF. E(ARL) F(RANCIS), b. Chicago, Ill, Mar. 13, 12; m. 39; c. 2. ECONOMICS. B.A, Queen's (Ont), 34; A.M, Harvard, 36, Ph.D, 38. Dir. sch. commerce, McGILL, 40-46, PROF. ECON, 46-, chmn. dept. econ. & polit. sci, 52-54. Guggenheim fel, 49-50; chmn, Soc. Sci. Res. Coun, Can, 58-60. Econ. Asn; Statist. Asn; Economet. Soc; Can. Polit. Sci. Asn; Royal Econ. Soc. Economics and statistics; econometrics. Publ: Economic models; Modelos economicos; Conference on statists. Address: Dept. of Economics, McGill University, Montreal 2, Que, Can.

BEACH, DR. FRANK A(MBROSE), Psychol, see 11th ed, Phys. & Biol. Vols.

BEACH, PROF. FRANK H(ERMAN), Bus. Admin, see 10th ed, Soc. & Behav. Vols.

BEACH, PROF. HORACE D(OUGALD), b. Ernfold, Sask, Mar. 12, 19; m. 49; c. 4. PSYCHOLOGY. B.A, Saskatchewan, 49; M.A, Oxford, 51; Ph.D, McGill, 55. Clin. psychologist, Hosp. Ment. & Nervous Diseases, St. John's, Newf, 54-57; assoc. prof. PSYCHOL, DALHOUSIE, 57-63, PROF, 63-, DIR. STUDENT COUNSELING & PSYCHOL. SERV. CENTRE, 66- Can. Army, 42-46, Capt. Am. Psychol. Asn; Can. Psychol. Asn. Counseling and clinical psychology; intelligence and personality; human learning and motivation. Publ: Management of human behavior in disaster, Dept. Nat. Health & Welfare, Ottawa, 67; Morphine addiction in rats, Can. J. Psychol, 57; co-ed, Intelligence in a restricted environment, Can. Psychologist, 63. Address: 1622 Walnut St, Halifax, N.S, Can.

BEACH, DR. LEE ROY, b. Gallup, N.Mex, Feb. 29, 36; m. 64. EXPERIMENTAL PSYCHOLOGY. B.A, Indiana, 57; M.A, Colorado, 59, Nat. Insts. Health fel, 60-61, Ph.D.(psychol), 61. Aviation psychologist, Aviation Psychol. Lab, Fla, 61-63; eng. psychologist, Off. Naval Res, Wash, D.C, 63-64; Nat. Insts. Health fel. PSYCHOL, Eng. Psychol. Lab, Michigan, 64-66; ASSOC. PROF, WASHINGTON (SEATTLE), 66- U.S.N, 61-64, Lt. AAAS; Psychol. Asn. Decision processes; perception; cognition. Publ: Cue probabilism and inference behavior, Psychol. Mongr, 64; Accuracy and consistency in the revision of subjective probabilities, IEEE Trans. Human Factors Electronics, 66; co-auth, Man as an intuitive statistician, Psychol. Bull, 67. Address: Dept. of Psychology, University of Washington, Seattle, Wash. 98105.

BEACH, DR. LESLIE ROBERT, b. Crystal Valley, Mich, Aug. 29, 26; m. 63; c. 2. PSYCHOLOGY. B.A, Houghton Col, 49; M.Ed, Wayne State, 54; fels, Michigan, 55-57, Ph.D.(psychol, ed. psychol), 57. Instr. psychol, Gen. Motors Inst, 49-57; ASSOC. PROF, Whitworth Col, 57-63; ed. psychol, Bowling Green State, 63-64; PSYCHOL, HOPE COL, 64- Nat. Inst. Ment. Health res. grant, 64-65; U.S. Off. Ed. res. grants, 66-68. U.S.N, 44-46, 51-52. Psychol. Asn. Personality change during college; learning and interaction in small self-directed student groups; relationship of personality variables to learning in the college classroom. Publ: Co-auth, Psychology in business, McGraw, 59; auth, Self-directed student groups and college learning, In: New dimensions in higher education, 13, U.S. Off. Ed, 65; Personality change in the church-related liberal arts college, Psychol. Reports, 66. Address: Dept. of Psychology, Hope College, Holland, Mich. 49423.

BEACH, DR. PHILIP F(RANK), b. Minneapolis, Minn, Dec. 17, 36; m; c. 2. POLITICAL SCIENCE. B.A, Washington (Seattle), 59; M.A, Northwestern, 62, Resources for Future fel. & Ph.D.(polit. sci), 64. Instr. POLIT. SCI, Washington State, 62-64; asst. prof, FRESNO STATE COL, 64-68, ASSOC. PROF, 68- Polit. Sci. Asn. American politics and public policy formation; politically relevant values and ideologies in America. Address: Dept. of Political Science, Fresno State College, Fresno, Calif. 93726.

BEADLES, PROF. W(ILLIAM) T(HOMAS), b. Quincy, Ill, Mar. 16, 02; m; c. 2. ECONOMICS. A.B, Ill. Wesleyan, 23, A.M, Illinois, 24; Heubner Found. Ins. Ed. fel, Pennsylvania, 41-42; hon. D.B.A, Simpson Col, 58. Instr. econ, ILL. WESLEYAN, 24-26, asst. prof, 26-32, PROF, 32-59, INS, 59-, CHMN. DIV. BUS, 67-, asst. registr, 24-32, registr, 35-38, chmn. div. soc. sci, 40-44, dean col. lib. arts, 44-46, univ, 51-59, v.pres, 53-59. Ed. consult, Am. Col. Life Underwriters, 63-; nat. ins. ed. adv, State Farm Ins. Co, 68. Ed. J. Risk & Ins, 59- Econ. Asn; Finance Asn; Arbit. Asn; Risk & Ins. Asn. (pres, 58, exec. secy, 61). Insurance. Publ: Co-auth, Law and the life insurance contract, rev. ed, 68; contrib. auth, Life and health insurance handbook; co-auth, Principles of life insurance, Irwin, Vol. I, 64. Address: Division of Business, Illinois Wesleyan University, Bloomington, Ill. 61701.

BEAIRD, PROF. JAMES H(OWARD), b. Bridgeport, Nebr, Dec. 5, 31. EDUCATIONAL PSYCHOLOGY. B.A, Nebr. State Teachers Col, Kearney, 53; M.E, Nebraska, 58, Ed.D.(ed. psychol. & measurement), 62. Investr. & interrogator, Counter Intel. Corps, U.S. Dept. Army, 55-57; teacher, high sch, Nebr, 57-58; instr. ed. psychol. & measurements, Nebraska, 58-61; asst. prof. ed, Toledo, 61-62; asst. res. prof. TEACHING RES, ORE. STATE SYST. HIGHER ED, 62-64, assoc. res. prof, 64-67, RES. PROF, 67- Ed. consult, State Farm Mutual Ins. Co, 65- Mil. Intel, U.S.A, 53-55. Statist. Asn. Psychometrics, especially multidimensional scaling; determination of parameters of classroom learning; development of new teaching techniques. Publ: Co-auth, Motion pictures as test stimuli, 64, Audiosimulation in counselor training, 65 & Interpersonal communication behavior, 66, U.S. Off. Ed. Address: Teaching Research, Oregon State System of Higher Education, Monmouth, Ore. 97361.

BEAL, PROF. GEORGE M, b. Parkdale, Ore, May 21, 17; m. 44; c. 4. SOCIOLOGY. B.S, Iowa State Col, 43, M.S, 47, Ph.D, 53. Res. assoc. agr. econ, IOWA STATE, 47-50, asst. prof. SOCIOL, 50-53, assoc. prof, 53-56, PROF, 56- Mem. agr. prod. team, Ford Found-Govt. of India, 59; chmn. cmt. experts on eval. exp. literacy projs, UNESCO, 66. U.S.A, 43-46, Capt. Sociol. Asn; Rural Sociol. Soc.(pres. elect, 68); Asn. Pub. Opinion Res. Adoption and diffusion of new ideas and practice; communication; social organization and action; decision making; value and attitudes; social power. Publ: Co-auth, Leadership and dynamic group action, 62 & Social action and interaction in program planning, 66, Iowa State Univ; Adoption of two farm practices in a central Iowa community. Address: 204 East Hall, Iowa State University, Ames, Iowa 50010.

BEALE, CALVIN LUNSFORD, b. Washington, D.C, June 6, 23. DEMOGRAPHY, GEOGRAPHY. B.S, Wilson Teachers Col, 45; Maryland, 45-46; Wisconsin, 47-49. Statistician, pop. div, U.S. Bur. Census, 46-47, 49-53; anal. statistician, farm pop. sect, ECON. RES. SERV, U.S. DEPT. AGR, 53-61, head farm pop. sect, 61-65, LEADER POP. STUDIES GROUP, 65- Mem, Fed. Cmt. Standard Metrop. Statist. Areas, 54-; cmt. pop. statist, Bur. of Census, 65- Asn. Am. Geog; Rural Sociol. Soc; Pop. Asn. Farm population; regionalism; racial isolates. Publ: Co-auth, Economic areas of the United States; auth, The Negro in American agriculture, In: The American Negro reference book, Prentice-Hall, 66; American triracial isolates, Eugenics Quart. Address: Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

BEALE, DR. LATHROP VICKERY, b. Massena, N.Y, Nov. 25, 21. SOCIOLOGY. A.B, Randolph-Macon Woman's Col, 43; A.M, Chicago, 48, fel, 57-58, Ph.D.(sociol), 62. Intern govt. admin, Nat. Inst. Pub. Affairs, Wash, D.C, 43-44; trainee to asst. examiner & staff asst, U.S. Civil Serv. Cmn, 44-45; Observer & interviewer, Soc. Res. Inc, Ill, 47-48; instr, Mt. Holyoke Col, 48-50; staff rep. sch. affiliation serv, Am. Friends Serv. Cmt, 50-53; res. assoc, U.S. Off. Ed, 56; res. asst. & assoc. study dir, nat. opinion res. center, Univ. Chicago, 58-60; asst. prof. SOCIOL, Grinnell Col, 60-63, assoc. prof, 63-66; ASSOC. PROF. & CHMN. DEPT, STATE UNIV. N.Y. BINGHAMTON, 66- Sociol. Asn; Soc. Sci. Study Relig. Urban sociology; social stratification. Publ: Co-auth, A study of participants in the great books program, Fund Adult Ed, 60; auth, Local-cosmopolitan orientations among great books program participants, Studies Pub. Commun, summer 59; co-auth, Career specification among medical students, J. Health & Human Behavior, fall 62. Address: Dept. of Sociology, State University of New York at Binghamton, Binghamton, N.Y. 13901.

BEALER, DR. ROBERT CHARLES, b. Bethlehem, Pa, Aug. 29, 30; m. 54; c. 4. RURAL SOCIOLOGY. B.S, Pa. State, 53, M.S, 55; Ph.D.(sociol), Mich. State, 62. Asst. prof. RURAL SOCIOL, PA. STATE, 58-65, ASSOC. PROF, 65- Sociol. Asn; Rural Sociol. Soc; Soc. Study Social Probs; Acad. Polit. & Soc. Sci. Social structure patterns of rural areas in highly urbanized countries; meta-theory; longitudinal analysis of socialization and subsequent mobility behavior. Publ: Auth, Theory-research: some suggestions for implementation, 12/63 & co-auth, Evaluation of a composite definition of rurality, 6/67, Rural Sociology; Rebellious youth subculture-a myth, Children, 3/64. Address: Dept. of Rural Sociology, Pennsylvania State University, University Park, Pa. 16802.

BEALL, PROF. CHARLES PORTER, b. Fort Wayne, Ind, May 13, 24; m. 46; c. 3. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B, DePauw, 48; dipl, Stockholm, 49; M.A, Indiana, 49, Ph.D, 52. Lectr, Adult Ed. Soc, Sweden, 48-49; instr, Indiana, 50-52; asst. prof. polit. sci, Wyoming, 52-58, assoc. prof, 58-63, dir. inst. int. affairs, 58-60; assoc. prof. POLIT. SCI, Eastern Illinois, 63-66, head dept, 64-66; PROF. & CHMN. DEPT, DENVER, 66- Prof, Alaska Methodist, 60-61; summer vis. lectr, conf. int. affairs, East. Mont. State Col, 60. Consult, State Dept. Ed, Wyo, 55; summer consult, U.S. Air Force, 54. U.S.N, 42-46. Polit. Sci. Asn. Soviet political institutions; political parties; local government. Publ: Local government and administration in Sweden; contrib, Western politics; auth, U.S. foreign policy and the Berlin crises. Address: Dept. of Political Science, University of Denver, Denver, Colo. 80210.

BEALL, DR. GEOFFREY, Statist, see 11th ed, Phys. & Biol. Vols.

BEALS, DR. ALAN R(OBIN), b. Oakland, Calif, Jan. 24, 28. ANTHROPOLOGY. Soc. Sci. Res. Coun. fel, India, 52-53; Ph.D, California, 54. Asst. prof. ANTHROP, STANFORD, 56-65, ASSOC. PROF, 65- Nat. Sci. Found. fel, 58-61; Morrison Fund grant-in-aid, Stanford, 65; Am. Inst. Indian Studies fel, 65-66; Wenner Gren grant-in-aid, 67. Anthrop. Asn.(Mem. & spec. pub. ed, 63-65); Soc. Appl. Anthrop; Asn. Asian Studies. Culture change; community and society in India; conflict. Publ: Auth, Gopalpur, South Indian village, 63 & Culture in process, 67, Holt; co-auth, Divisiveness and social conflict, Stanford, 66. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

BEALS, PROF. RALPH L(EON), b. Pasadena, Calif, July 19, 01; m. 23; c. 3. ANTHROPOLOGY. A.B, California, 26, fel, 28-30, Ph.D.(anthrop), 30. Hon. res. assoc. & Nat. Res. Coun. fel. biol, California, 30-32, Southwest Soc. N.Y. fel, 32-33; mus. technician, Nat. Park Serv, 33-35; instr. ANTHROP, CALIFORNIA, LOS ANGELES, 36-39, asst. prof, 39-42, assoc. prof, 42-47, PROF, 47-, chmn. dept. anthrop. & sociol, 41-42, 43-48, 63-64. Dir. Latin-Am. ethnic studies, Smithsonian Instn, 42-43; mem. faculty med, Concepcion, Chile, 45; fel, Center Adv. Studies Behav. Sci, 55-56; Guggenheim Found, 58-59; prof, Buenos Aires, 62; prin. investr, Nat. Sci. Found. res. grant, 64-68. Mem, Soc. Sci. Res. Coun, 46-52, chmn. cmt. cross-cultural ed, 53-60. AAAS; Anthrop. Asn.(pres, 50); Soc. Archaeol; Soc. Appl. Anthrop; Sociol. Asn; Ethnol. Soc; Mex. Soc. Anthrop. Latin American anthropology; culture change; community studies; modernization and development. Publ: Cheran: a Sierra Tarascan village, Inst. Soc. Anthrop, Smithsonian Inst, 46; co-auth, An introduction to anthropology, Macmillan, 65; auth, Community in transition: Nayon, Ecuador, Latin Am. Center, Univ. California, 66. Address: Dept. of Anthropology, University of California, Los Angeles, Calif. 90024.

BEAM, DR. GEORGE D, b. Pittsburgh, Pa, May 30, 34; m. 58; c. 2. POLITICAL SCIENCE. B.A, Westminster Col, 56; M.A, Pittsburgh, 57; Ph.D.(polit. sci), Michigan, 63. ASST. PROF. POLIT. SCI, Monmouth Col, 63-65; ILLINOIS, 65- Army Nat. Guard, 57-63. Political theory. Publ: Co-auth, Readings on American government, Wadsworth, 68. Address: 224 S. Maple, Oak Park, Ill. 60302.

BEAM, DR. JEROME C(HRISTOPHER), b. U.S, May 4, 29. PSYCHOLOGY. B.A, Knox Col, 47; univ. fel, Illinois, 52-53, U.S. Pub. Health Serv. fel, 53-55, Ph.D.(psychol), 55. Consult. psychologist, Miller Assocs, 55-58; v.pres, Clark, Channell, Inc, 58-64, Clark, Cooper, Field & Wohl, Inc, 64-66, v.pres. mgt. consult. div, Dunlap & Assocs, Inc, 66-67; PARTNER, DRAKE-BEAM & ASSOCS, PSYCHOL. CONSULTS, 67- Private practice, 58- Consult, Stamford Hosp. Psychiat. Clin, 59- Psychol. Asn. Personality dynamics in relation to learning theory; application of clinical psychology to industrial and social problems; motivation. Publ: Serial learning and conditioning under real-life stress, J. Abnorm. & Soc. Psychol; Essential personal qualities of managers. Address: Dairy Rd, Greenwich, Conn. 06830.

BEAMISH, DR. JEROME J(AMES), b. Montreal, P.Q, Feb. 10, 24; U.S. citizen; m. 44; c. 3. PSYCHOLOGY. B.A, Sir George Williams, 57; M.A, Columbia, 58, dipl. counseling psychol, 60, Ph.D.(psychol), 62. Asst. personnel mgr, Springfield Ins. Group, 46-53; personnel dir, Adriatic Ins. Group, 53-57; asst. psychol, Columbia, 57-59; counseling psychologist, lab. psychol. studies, Stevens Inst. Tech, 59-62; asst. to dir, prfnl. guid. inst, Hunter Col, 60-61; asst. prof. psychol. & ed, California, Santa Barbara, 62-64; ASST. PROF. PSYCHOL. & ASSOC. DEAN STUDENT AFFAIRS, STANISLAUS STATE COL, 64- Clin. psychologist, dept. ment. hyg, Camarillo State Hosp, Calif, 64. R.C.A.F, 43-46. Psychol. Asn; Personnel & Guid. Asn; Asn. Clin. Counsr. Empathy in counseling; counselor training and supervision; group psychotherapy with non-achieving college students; psychology of accident prevention. Publ: Co-auth, A psychological comparison of violator and non-violator automobile drivers in the 16 to 19 year age group, Traffic Safety Res. Rev, 3/62; How good a driver are you?, This Week Mag, 6/62 & Driving improvement courses: procedures and course outlines, Safety Res. & Ed. Proj, Columbia, 3/63. Address: Dept. of Psychology, Stanislaus State College, 800 Monte Vista Ave, Turlock, Calif. 95380.

BEAN, PROF. BARTON, b. Washington, D.C, June 13, 17; m. 43; c. 3. POLITICAL SCIENCE. B.A, Buffalo, 42; fel, Cornell, 42-43, Ph.D.(govt), 54. Asst. Eng. hist, Cornell, 42-43, Am. hist, 43-45; instr. govt, Buffalo, 45-51; asst. prof, LAKE ERIE COL, 55-56, assoc. prof. SOC. STUDIES, 56-62, PROF, 62- American civil liberties: political parties and public opinion; American reform movements. Publ: Pressure for freedom, Am. Civil Liberties Union Microfilm, 55. Address: Dept. of Social Studies, Lake Erie College, Painesville, Ohio 44077.

BEAN, DR. KENNETH LAMONT, b. New York, N.Y, June 21, 10; m. 42; c. 3. PSYCHOLOGY. B.A, La. State, 32, M.A, 33; Ph.D.(psychol), Michigan, 38. Asst. psychol, Michigan, 35-37; intern, guid. center, New Orleans, 39-40; instr, Marshall Col, 40-41; Bethany Col.(W.Va), 42; prin. exam, State Dept. Civil Serv, La, 42-48; from assoc. prof. to prof. psychol, Baylor, 48-62; CLIN. PSYCHOLOGIST, Vet. Admin. Hosp, Knoxville, Iowa, 62-65; VET. ADMIN. CENTER, TEMPLE, TEX, 65- Fel. Psychol. Asn. Test development; applications of tests to Negroes; psychology of music. Publ: Construction of educational and personnel tests; Sound apperception test, J. Psychol, 65; Experimental approach to the reading of music, Psychol. Monogr. Address: 3505 Oakdale, Temple, Tex. 76501.

BEAN, DR. LEE LAWRENCE, b. Salt Lake City, Utah, Aug. 22, 33; m. 57; c. 1. SOCIOLOGY, DEMOGRAPHY. B.A, Utah, 57, M.A, 58; Ph.D.(sociol), Yale, 61. Instr. SOCIOL, Quinnipiac Col, 59-61, YALE, 61-63, ASST. PROF, 63- Adv, Pakistan Inst. Develop. Econ, 66- U.S.A, 53-56. Sociol. Asn; Pop. Asn. Am; Pakistan Sociol. Asn. Social psychiatry; general demography and family planning. Publ: Co-auth, A decade later, a ten year follow-up of social class and mental illness, Wiley, 67; auth, The fertility of former mental patients, Eugenics Quart, 66; co-auth, The population of Pakistan: 1960-2000, Inst. Develop. Econ, 67. Address: Dept. of Sociology, Yale University, 1303 A Yale Station, New Haven, Conn. 06520.

BEAN, LOUIS H, b. Lithuania, Apr. 15, 96; nat; m. 23; c. 2. ECONOMICS. B.A, Rochester, 19; M.B.A, Harvard, 22. Economist, bur. agr. econ, U.S. Dept. Agr, 23-33, econ. adv, Off. Secy, 33-40, 47-53; asst. to adminstr, Bd. Econ. Warfare, 41-43; chief analyst, U.S. Bur. Budget, 44-46; ECON. CONSULT, 53- Lectr, Salzburg Seminar Am. Studies, 60. Consult, Food for Peace Off, 61; Off. Secy, U.S. Dept. Agr, 61. U.S.A, 18-19, 2nd Lt. Econ. Asn; Statist. Asn. Agricultural economic research; correlation methods; political behavior; long range forecasting of crops and weather and business cycles. Publ: How to predict elections; How to predict the stock market, McKay, 62; Closing the world's nutritional gap, Joint Cmt. President's Econ. Report, 61. Address: 3714 N. Randolph St, Arlington, Va. 22207.

BEAN, PROF. WALTON E(LBERT), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BEANEY, PROF. WILLIAM M(ERRITT), JR, b. Wilkes-Barre, Pa, Nov. 27, 18; m. 47; c. 2. POLITICAL SCIENCE. A.B, Harvard, 40; fel, Michigan, 46-49, LL.B, 47, Ph.D, 51. Instr. polit, PRINCETON, 49-52, asst. prof, 52-56, assoc. prof, 56-59, prof, 59-64, CROMWELL PROF. LAW, 64-, chmn. dept. polit, 59-62. U.S.A, 41-45, Capt. Polit. Sci. Asn. Public law; judicial administration. Publ: The right to counsel in American courts; co-auth, American constitutional law & The Supreme Court in a free society. Address: 203 Corwin Hall, Dept. of Politics, Princeton University, Princeton, N.J. 08540.

BEAR, DR. DONALD VAN TWISK, b. New York, N.Y, May 28, 32; m. 60; c. 1. ECONOMICS. A.B, Princeton, 54; Woodrow Wilson fel, Oxford, 54-55, B.Phil, 57; Ford Found. fel, Stanford, 60-61, M.S, 61, Ph.D.(econ), 63. Acting instr. ECON, Stanford, 56-61; asst. prof, Chicago, 61-65; ASSOC. PROF, CALIFORNIA, SAN DIEGO, 65- Ford Found. faculty res. fel, 64-65. Consult, Rand Corp, 58-60; Stanford Res. Inst, 65- Dir, Vanderbilt Mutual Fund, 67- Am. Econ. Asn; Economet Soc; fel. Royal Econ. Soc. Mathematical economics. Publ: Matrix multiplier and distributed lags, Econometrica, 63; Inferior inputs and the theory of the firm, J. Polit. Econ, 65; Distributed lags and economic theory, Rev. Econ. Studies, 66. Address: Dept. of Economics, University of California, San Diego, La Jolla, Calif. 92037.

BEAR, PROF. ROBERT M(URRAY), b. Chinkiang, China, Feb. 3, 01; m. 27; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Washington & Lee, 22, A.M, 24; Ph.D.(ed), Ohio State, 30; Michigan, 32; Chicago, 36; hon. M.A, Dartmouth Col, 42. Prin, pub. sch, Miss, 22-23; prof. ed. & head dept, Centre Col, 25-29; asst. prof, DARTMOUTH COL, 29-36, psychol, 36-42, dir. reading clin, 36-66, prof. psychol, 42-66, supvr. aptitude testing, 53-66, EMER. PROF. PSYCHOL, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Remedial instruction; diagnostic testing; counseling. Publ: Social functions of education; co-auth, Evaluation of visual factors in reading; Readings for comprehension. Address: 418 W. Broadway, Danville, Ky. 40422.

BEARD, PROF. BELLE BOONE, b. Boone Mill, Va, Feb. 18, 98. SOCIOLOGY. A.B, Lynchburg Col, 23; M.A. & Ph.D, Bryn Mawr Col, 32. Asst. soc. econ, Bryn Mawr Col, 25-27; Judge Baker Found, Boston, Mass, 28-29; assoc. prof. sociol, SWEET BRIAR COL, 31-35, prof. & chmn. dept, 35-63, chmn. div. soc. studies, 46-49, EMER. PROF. SOCIOL, 65-; RES. PROF. GERONT, SOC. SCI. RES. INST, GEORGIA, 65- Dir. county & city orgn, State Dept. Pub. Welfare, Va, 38-40; vis. prof, Vanderbilt, 45-46; res. prof, New Mexico Highlands, 52-53, vis. prof, 64; inter-county exchange prof, Taiwan, summer 60; Fulbright prof, Seoul Nat. Univ. & Seoul Woman's Col, Korea,

61-62; res. assoc, soc. sci. inst, Washington (St. Louis), 63-64. Trustee, Lynchburg Col, 33- Fel. Sociol. Asn; fel. Gerontol. Soc; Pan-Am. Gerontol. Asn; hon. mem. Geriat. Soc. Chile. Juvenile probation; child welfare; gerontology. Publ: Social competence of centenarians, Ga. Printing Dept, 67. Address: Dept. of Sociology & Anthropology, University of Georgia, Athens, Ga. 30601.

BEARD, DR. THOMAS REX, b. Baton Rouge, La, Aug. 12, 34; m. 57; c. 2. ECONOMICS. B.S, La State, 56, Earhart Found. fel, 57-58, M.A, 58, Ford Found. fel, Duke, 60-61, Ph.D.(econ), 63. Asst. prof. econ, La. State, 61-64; economist, Fed. Reserve Bd. Governors, 64-65; ASSOC. PROF. ECON, LA. STATE, 65-, HEAD DEPT, 66-, acting head dept, 65-66. Econ. Asn; Finance Asn. Monetary theory and policy; management of the public debt; government fiscal policy. Publ: U.S. Treasury advance refunding, June 1960-July 1964, Fed. Reserve Bd. Governors, 66; Counter-cyclical debt management—a suggested interpretation, South. Econ. J, 1/64, Debt management: its relationship to monetary policy, 1951-1962, Nat. Banking Rev, 9/64. Address: Dept. of Economics, Louisiana State University, Baton Rouge, La. 70803.

BEARD, DR. WINSTON C(LINGAN), b. Camden, Ark, Apr. 17, 30; m. 55; c. 2. ECONOMICS, FINANCE. A.B, Ouachita Baptist Col, 53; M.B.A, Arkansas, 54; univ. fel, Illinois, 56-57, Gen. Elec. fel, 57-58, Ph.D.(econ), 61. Asst. bus. admin, Arkansas, 53-54; instr, Ouachita Baptist Col, 54-55, asst. bus. mgr, 55-56; res. economist, indust. res. exten. center, Arkansas, 58-60, coordinator mgt. ed, 60-62; asst. prof. finance, Texas, 62-65; prof. econ. & chmn. dept, Baylor, 65-67; EXEC. DIR, ARK. PLANNING CMN, 67- Econ. Asn; Finance Asn; Inst. Chartered Financial Anal. Investment analysis; planning; business finance. Publ: An experiment in advising small manufacturers, Univ. Arkansas, 64; An epitaph for the Robertson law, J. Risk & Ins, 12/65; Premium tax rates and life insurance investments, The Ins. Law J, 1/66. Address: Arkansas Planning Commission, Capitol Mall, Little Rock, Ark. 72201.

BEARDEN, GARY DEE, b. Paducah, Tex, Feb. 27, 34; m. 60; c. 2. PLANT BREEDING, STATISTICS. B.S, Tex. Tech. Col, 55; M.S, Agr. & Mech. Col, Tex, 57. Asst. instr. agron, Tex. Tech. Col, 55; res. asst. plant breeding, Tex. Agr. Exp. Sta, Agr. & Mech. Col, Tex, 55-57; anal. statistician, agr. res. serv, U.S. DEPT. AGR, 59-62, WASH. DATA PROCESSING CENTER, STATIST. REPORTING SERV, 62-64, dep. chief, 64-66, DIR, 66-Instr, U.S. Dept. Agr. Grad. Sch, 64-66, consult, center mod. learning tech. & cor. prog, 65-, mem. automatic data processing & mgt. sci. cmt, 65-; lectr, Civil Serv. Cmn, 67- U.S.A.F, 57-59, Res, 59-67, Capt. Statistics and automatic data processing. Publ: Co-auth, Tables of expected genetic progress in each of two traits, U.S. Dept. Agr, 61. Address: 2706 Bartlett Lane, Bowie, Md. 20715.

BEARDEN, PROF. JAMES HUDSON, b. Marion, Ala, Sept. 25, 33; m. 61; c. 2. MARKETING, ECONOMICS. B.A, Centenary Col, 56; M.A, East Carolina, 59; Ph.D.(bus. admin), Alabama, 66. Bus. mgr, Marion Inst, 59-60; instr. bus. mkt, EAST CAROLINA, 60-61, asst. prof, 61-63, assoc. prof, 63-64, PROF. BUS. MKT. & DIR. BUR. BUS. RES, 64-, ASST. DEAN SCH. BUS, 67-Mem, Gov. State Emergency Indust. Task Group, 67- U.S.A, 56-58, 2nd Lt. Mkt. Asn. Personal selling in industrial sector; industrial salesman viewed as decision-maker and member of management; conceptual tools from behavioral sciences and analysis of decision-making process in personal selling. Publ: Personal selling: behavioral science readings and cases, Wiley, 67; Is purchasing a profession?, Ala. Purchaser, 60; A measure of the occupational status of purchasing agents, J. Purchasing, 5/67. Address: Dept. of Marketing, East Carolina University School of Business, Greenville, N.C. 27834.

BEARDSLEE, DR. BETTY JAMES, b. Pittsfield, Mass, May 5, 25; m. 50. CLINICAL PSYCHOLOGY. B.A, Swarthmore Col, 47; M.A, California, 49; Ph.D.(clin. psychol), Michigan, 55. Staff psychologist, Conn. State Hosp, 53-55, sr. staff psychologist, 55-59, consult. psychodiag, psychol. labs, 59-60; lectr. soc. psychol, OAKLAND, 61, CLIN. PSYCHOLOGIST, 61- Res. assoc, U.S. Pub. Health Serv. Proj, psychol. labs, Wesleyan, 58-61. Psychol. Asn. Impact of sociological change on the identity alternatives of college students; psychotherapeutic intervention in identity crises. Publ: Mechanisms of defense; I. Denial of failure. II. Aggression and the second family of defenses, In: Inner conflict and defense. Address: 1487 N. Livernois Rd, Rochester, Mich. 48063.

BEARDSLEE, PROF. DAVID C(ROMWELL), b. New Brunswick, N.J, Mar. 2, 25; m. 50. PSYCHOLOGY. B.A, Swarthmore Col, 49; univ. fel, Michigan, 49-51, M.A, 51, Rackham fel, 52-53, Ph.D, 58. Instr. PSYCHOL, Wesleyan, 53-56, asst. prof, 56-60; assoc. prof, OAKLAND, 60-64, PROF, 64-, DIR. OFF. INST. RES, 67-, dir. comput. & data processing center, 63-66. Psychol. Asn; Statist. Asn; Psychomet. Soc. Psychometric methods; perception; social psychology. Publ: Co-auth, Readings in psychology & Decision making; auth, College student images of a selected group of occupations and professions. Address: Dept. of Psychology, Oakland University, Rochester, Mich. 48063.

BEARDSLEY, DR. KATHARINE PEASE, b. Highwood, Ill, Dec. 27, 10; m. 50. CLINICAL PSYCHOLOGY. B.S, Beloit Col, 32; A.M, Smith Col, 33; Ph.D. (ed. res), Columbia, 49. Instr. sci. & psychol, Briarcliff Jr. Col, 33-37, acad. dean, 42-44, ed. & admin. asst, grad. record exam, 45-48; registr. & dir. admissions, Finch Jr. Col, 37-42; instr. psychol, Barnard Col, Columbia, 48-51; prof. lectr, American Univ, 53-56; STAFF PSYCHOLOGIST, ST. ELIZABETHS HOSP, 56-, DIR. PSYCHOL. TRAINING, 58- Psychol. Asn; Soc. Proj. Tech. & Personality Assessment. Personality structure; training in psychotherapy. Publ: Computational techniques for elementary statistics; Analysis of psychological tests of persons diagnosed sociopathic personality disturbance. Address: 4604 Albemarle St. N.W, Washington, D.C. 20016.

BEARDSLEY, PROF. RICHARD K(ING), b. Cripple Creek, Colo, Dec. 16, 18; m. 42; c. 3. ANTHROPOLOGY. A.B, California, 39, Ph.D.(anthrop), 47. Dir. archaeol. field session, California, 41-42; instr. ANTHROP, Minnesota, 47; MICHIGAN, 47-48, asst. prof, 48-53, assoc. prof, 54-59, PROF, 60-Dir, Center Japanese Studies, Michigan, 61-64. Center Japanese Studies of Michigan faculty fel, Library of Cong, 48; Soc. Sci. Res. Coun. fel, Japan, 50, Ford fel, Japan, 53-54, Carnegie Corp. res. fel, 64-65; Guggenheim fel, Spain, 58-59; Rackham fel, Soviet Cent. Asia, 64. U.S.N.R, 42-46. Fel. AAAS; fel. Anthrop. Asn; Soc. Archaeol; Asn. Asian Studies. Cultural anthropology of Japan; archaeology and ethnography of Far East and inner Asia; theory of socio-cultural modernization. Publ: Co-auth, Village Japan, Univ. Chicago, 59; Japanese culture: its development and characteristics, Aldine, 62; Twelve doors to Japan, McGraw, 65. Address: Dept. of Anthropology, University of Michigan, Ann Arbor, Mich. 48104.

BEARDSLEY, DR. SEYMOUR W(ILLIS), b. New Haven, Conn, Sept. 2, 10; m. 34, 50. PSYCHOLOGY. A.B, Yale, 33; A.M, Columbia, 37, Ph.D.(psychol), 50. Assoc. prof. appl. psychol. & dir. personnel serv, Polytech. Inst. Brooklyn, 37-42, 46-50; ed. adv, U.S. Dept. State, Germany, 51-52; res. assoc, Wash. Seminar Int. Affairs, Am. Friends Serv. Cmt, 52-59; PRES, INST. PERSONNEL PSYCHOL, 59- Prof. lectr, American Univ, 54-67. U.S.N.R, 42-45, Lt. Comdr. Psychol. Asn. Psychology applied to management-personnel problems; social science research in international problems. Publ: Co-auth, Human relations in international affairs. Address: 4604 Albemarle St. N.W, Washington, D.C. 20016.

BEARE, DR. ROBERT STEVENS, b. Detroit, Mich, Sept. 19, 19; m. 47; c. 3. CLINICAL PSYCHOLOGY. B.A, Wayne State, 48, M.A, 50; Ph.D, Mich. State, 57. Personnel psychologist, Gen. Motors Inst, 51-57; personnel develop. dir, Royal McBee Corp, 57-61; consult. psychologist, Clark, Channell, Inc, 61-63; adminstr. selection & appraisal, Int. Tel. & Tel. Corp, 63-66, mgr. exec. personnel, Europe, 66-68; MANAGING DIR, STAUB, WARMBOLD & ASSOCS. INT, INC, 68- U.S.A, 43-46, Sgt. Psychol. Asn. Selection, evaluation and development of management personnel; organizational analysis and planning; application of psychological principles and techniques to business and industrial problems. Address: Staub, Warmbold & Associates International, Inc, 137 Avenue Louise, Brussels 5, Belgium.

BEASLEY, DR. KENNETH E(PHRIAM), b. Terre Haute, Ind, Aug. 27, 25; m. 45; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Kansas, 48, M.A, 49, Ph.D, 56. Instr. polit. sci, Kansas, 49-56, asst. prof, 56-61; assoc. prof. polit. sci. & pub. admin, Pa. State, 61-64; prof. polit. sci, Kansas, 64-67; HEAD DEPT. POLIT. SCI. & DIR. BUR. PUB. AFFAIRS, TEXAS, EL PASO, 67- Exec. secy, State Senate Ways & Means Cmt, Kans, 56-57; State Legis. Cmt. Econ. & Efficiency, 57-59; dir. res. dept, Kans. Legis. Coun, 64-67. Consult. mgt. develop. prog, Soc. Security Admin, 60; consult. on pub. library serv, 64- U.S.A, 43-45. Regulation of business; public fiscal and personnel administration. Publ: Findings and recommendations of the legislative committee on economy and efficiency; co-auth, Soviet tractor stations: policy control by auxiliary services, Pub. Admin. Rev. Address: Dept. of Political Science, University of Texas at El Paso, El Paso, Tex. 79999.

BEASLEY, PROF. TITUS W(ALKER), Govt, see 10th ed, Soc. & Behav. Vols, deceased 65.

BEATON, DR. ALBERT E(UGENE), b. Boston, Mass, Aug. 9, 31; m. 59; c. 1. STATISTICS. S.B, Mass. State Teachers Col, Boston, 55; Ed.M, Harvard, 56, IBM fel, 63-64, Ed.D.(ed. measurement & statist), 64. Res. assoc, Ed. Res. Corp, 56-57; chief programmer, statist. lab, Harvard, 57-58, managing dir, 58-60; dir, 60-64; CONSULT. STATIST. & DATA ANAL, ED. TESTING SERV, 64- Vis. lectr, Princeton, 65- Pres, Albert E. Beaton Assocs, Inc, 63- Consult, United Res. Inc, 59; Gillette Safety Razor Corp, 59-; Boston Col, 59-61; Computers for Indust. & Bus, 61; Gen. Elec. Corp, 61; U.S. Off. Ed, 66- AAAS; Statist. Asn; Psychomet. Soc; Asn. Comput. Mach. Development of problem oriented language for computers; use of factor analysis in sociometry. Publ: Next steps in statistical computing; Extension of Fortran for statistical problems; University data processing center, Harvard Ed. Rev. Address: Educational Testing Service, Princeton, N.J. 08540.

BEATTIE, DR. RONALD H(ANNA), b. Oregon City, Ore, Sept. 5, 03; m. 31; c. 3. LAW, SOCIOLOGY. A.B, Oregon, 26, J.D, 28, M.A, 32. Res. asst. crime studies, Oregon, 29-32; asst. & assoc, California, 32-36; regional dir, U.S. Dept. Justice, 36-37; criminal statistician, U.S. Bur. Census, 37-40; statistician, admin. off, U.S. Courts, 40-45; chief bur. criminal statist, State Dept. Justice, Calif, 45-61; div. procedural studies & statist, Admin. Off. U.S. Courts, 61-65; CHIEF BUR. CRIMINAL STATIST, CALIF. DEPT. JUSTICE, 65- Statist. Asn. Administration of criminal justice including law enforcement, prosecution, court determination and corrections; administration of justice in the federal court system. Publ: Judicial criminal statistics in California; Manual of criminal statistics; Criminal statistics in the United States, J. Criminal Law & Criminol. Address: Bureau of Criminal Statistics, California Dept. of Justice, P.O. Box 1583, Sacramento, Calif. 95807.

BEATTY, DR. GEORGE F(RANKLIN), b. Cowan, Ind, June 9, 18. GEOGRAPHY. B.S, Ball State Teachers Col, 49; M.S, Illinois, 51, Ph.D.(geog), 58; Fulbright scholar, Calcutta, India, 53-54. Asst. GEOG, Illinois, 51-55; asst. prof, Martin Br, Tennessee, 55-56; Northern Illinois, 56-58; PROF. & CHMN. DEPT. GEOG-GEOL, BALL STATE, 58- Fulbright res. prof, Calcutta, 63-64. U.S.A.A.F, 42-45, S/Sgt. AAAS; Asn. Am. Geog. Southern Asia; land and water use; climatology. Publ: The Damodar Valley; land and water resources; Soil erosion in the Upper Damodar Valley, Bihar State, India; Some geographic factors of the Middle East. Address: 3610 Brook Dr, Muncie, Ind. 47304.

BEATTY, SISTER M(ARY) ALEXINE, b. Medford, Mass, May 12, 02. ECONOMICS. A.B, Boston Col, 39; M.A, Catholic Univ, 41, Ph.D.(econ), 49. Prof. econ. & chmn. dept, Regis Col, 23-67; PROF. ECON, AQUINAS SCH, 67- Econ. Asn. Principles and problems; money and banking; public finance and economic geography. Publ: Bank failures in the District of Columbia in the Twentieth Century, Book Reviews. Address: Aquinas Junior College of Business, 303 Adams St, Milton, Mass. 02186.

BEATTY, DR. WALCOTT H(ERSEY), b. San Francisco, Calif, Feb. 4, 19; m. 46; c. 3. PSYCHOLOGY. A.M, Chicago, 47, Ph.D.(ed), 52. Asst. prof. ed, inst. child study, Maryland, 49-54, assoc. prof, 54-55; PSYCHOL, SAN FRANCISCO STATE COL, 55-58, PROF, 59-, chmn. div, 57-61. U.S.A, 41-46, 51-52, Capt. AAAS; Psychol. Asn; Nat. Soc. Study Ed. Human growth and development; learning; communication. Address: Dept. of Psychology, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

BEATTY, DR. W(ILLIAM) DONALD, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BEAUCHAMP, GEORGE EMERSON, JR, b. Lafayette, Ind, June 9, 31; m. 54; c. 3. POLITICAL SCIENCE, SOCIOLOGY. A.B, Shimer Col, 52; Chicago, 52-54; George Washington, 58-59. Admin. asst. to Congressman Charles A. Boyle, U.S. House Rep, 55-57; mgt. intern, Int. Coop. Admin, 57-58, mgt. analyst, 58-59, training officer, pub. safety div, 59-61; chief refugee team, 300th Civil Affairs Group, U.S. Army, Ga, 61-62; admin. officer, Agency Int. Develop. Mission, Lagos, Nigeria, 62-65, asst. opers. officer, off. refugee coord, Agency Int. Develop, Saigon, Vietnam, 65-66; asst. regional refugee officer, II Corps, Civil Opers. Revolutionary Develop. Staff, Nha Trang, Vietnam, 66-67; ASST. REGIONAL REFUGEE OFFICER, VIETNAM BUR, AGENCY INT. DEVELOP, 67- Lectr, for. serv. inst, U.S. Dept. State, 67- Nat. Guard, 48-50; U.S.A.F.R, 50-56; U.S.A, 61-62, Res, 56-61, 62-, 1st Lt. Soc. Personnel Admin; Polit. Sci. Asn. Refugee operations and management; administration and control of dislocated populations in emergencies; emergency resettlement; disaster relief; international training; foreign student counseling; federal personnel management. Publ: Co-auth, Effective organization of ICA participant training, 58 & auth, Security checks on ICA participants, 59, Int. Coop. Admin; auth, Refugee resettlement in Quang Duc Province, Agency Int. Develop, 67. Address: 3 Maplewood Court, Greenbelt, Md. 20770.

BEAUCHAMP, PROF. JAMES MERCER, JR, Indust. Eng, see 11th ed, Phys. & Biol. Vols.

BEAUCHESNE, PROF. RENE R, b. Lawrence, Mass, July 12, 32; m. 54; c. 3. POLITICAL SCIENCE. A.B, Merrimack Col, 53; M.A, Syracuse, 55, Maxwell fels, 55, 58-59. Instr. POLIT. SCI, Middlebury Col, 55-58; lectr, Harpur Col, State Univ. N.Y, 59; ASST. PROF, Alfred, 59-60; CREIGHTON, 60-, CHMN. DEPT, 64- Political behavior; techniques of quantative analysis and measurement; electoral behavior, legislative voting behavior and attitude studies. Publ: American government: an introduction, (in prep); Political impact of the Omaha home rule charter; Attitudes of personnel officers and management supervisors toward the merit promotion program: report of a field study. Address: Dept. of Political Science, Creighton University, Omaha, Nebr. 68131.

BEAUDOIN, KENNETH L, Anthrop, Archaeol, see 10th ed, Soc. & Behav. Vols.

BEAUDOIN, LEOPOLD, Statist, see 10th ed, Soc. & Behav. Vols.

BEAUDRY, PROF. D(AVID) PHILLIP, JR, Econ, see 10th ed, Soc. & Behav. Vols.

BEAUDRY, DR. JAMES AMAND, b. New York, N.Y, July 22, 28; m. 58; c. 3. SOCIOLOGY. B.A, Maryknoll Sem, 50; M.A, Rochester, 60; Nat. Defense Ed. Act fel, Cornell, 60-61, Ph.D.(sociol), 66. Instr. sociol, LeMoyne Col.(N.Y), 61-64, asst. prof, 64-65; lectr, United Col. Hong Kong, 65-67, assoc. dir. urban studies, urban study center, 66-67; ASST. PROF. SOCIOL, NORTHERN ILLINOIS, 67- U.S.A, 51-54. Sociol. Asn; Asn. Asian Studies. China; urban sociology; comparative institutions; Chinese society; intergroup relations. Address: Dept. of Sociology, Northern Illinois University, DeKalb, Ill. 60115.

BEAUMONT, RICHARD A(USTIN), b. New York, N.Y, Dec. 21, 25; m. 51. ECONOMICS. A.B, California, Los Angeles, 50; M.A, Hawaii, 56; Columbia, 59-61. Asst. dir. econ. res, Hawaii Employers Coun, 52-56; dir. admin. serv, Am. Mgt. Asn, 56-58; mem. staff, Indust. Rels. Counsr, Inc, 58-60, assoc. dir. res, 60-61, dir. res, 61-63, v.pres. in charge all opers, INDUST. RELS. COUNSR, INC. & INDUST. RELS. COUNSR. SERV, INC, 63-64, pres, 64-67, PRES. & CHIEF EXEC.OFFICER, 67- Lectr, Hawaii, 54; Dep. under secy. manpower, Dept. Navy, D.C, 66-67. U.S.A, 44-46. Econ. Asn; Soc. Pub. Admin; Indust. Rels. Res. Asn; Mgt. Asn. Industrial relations and economic research, especially labor; problems of social insurance and retirement; impact of technological change in factory and white-collar work situations on employee relations. Publ: Co-auth, Management, automation and people, Industrial, 64; Executive retirement and effective management; Productivity and policy decisions. Address: Ridgebury Rd, Ridgefield, Conn. 06877.

BEAUREGARD, PROF. LUDGER, b. Montreal, Que, Can, Mar. 3, 20; m. 46; c. 4. GEOGRAPHY. Lic. & M.A, Montreal, 50, Ph.D.(geog), 57. PROF. geog, sch. adv. commercial studies, MONTREAL, 54-63, DEPT. GEOG, 63- Can. Asn. Geog. Regional geography of the Province of Quebec; regional planning. Address: Dept. of Geography, University of Montreal, Montreal, Que, Can.

BEAVER, PROF. ALMA P(ERRY), b. Pawtucket, R.I, June 15, 99; m. 28, 60; c. 1. PSYCHOLOGY. Nat. Res. Coun. fel, Columbia, 27-28, Ph.D.(child develop), 32. Asst, child develop. inst, teachers col, Columbia, 28-30; asst. prof. psychol, Mills Col, 31-33; from asst. prof. to prof, California, Santa Barbara, 41-62; RETIRED. AAAS; fel. Psychol. Asn. Child psychology; personality; nursing education. Publ: The initiation of social contacts by preschool children, Child Develop. Monogr. Address: 777 N. Ontare Rd, Santa Barbara, Calif. 93105.

BEAZLEY, PROF. RONALD I, b. Halifax, N.S, Feb. 12, 22; m. 49. WELFARE & LAND ECONOMICS. B.Sc, New Brunswick, 49; M.F, Yale, 50; fel, Purdue, 51-53, Ph.D.(agr. econ), 54. Forest economist, Fed. Forestry Br, Can, 50-51; assoc. prof. forest econ, sch. forestry, Minnesota, 53-59; PROF. LAND RESOURCES ECON, SOUTHERN ILLINOIS, 59- Consult, U.S. Forest Serv, 55; Econ. Cmn. for Asia & Far East, 58; Food & Agr. Orgn, UN, 58 & 62; Govt. of Tanganyika, 62 & 64. Mem, Governor's Sci. Adv. Coun, Ill, 62-64. Can. Army, 40-43; R.C.N, 43-45. Econ. Asn; Soc. Am. Foresters; Regional Sci. Asn. Land resources and welfare economics; economic development. Publ: Co-auth, Independent factors in small woodland owner behaviour in Illinois, Univ. Illinois Forestry Dept, 62; auth, Planning prerequisites: less developed countries, Bus. Perspectives, summer 66; Conservation decision-making: a rationalization, Natural Resources J, summer, 67. Address: Dept. of Geography, Southern Illinois University, Carbondale, Ill. 62901.

BEBOUT, PROF. HARLEY, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

BEBOUT, DR. JAMES E(DWARD), b. Richmond, Ind, June 14, 30; m. 57; c. 2. CLINICAL PSYCHOLOGY, HUMAN DEVELOPMENT. B.A, Wayne State, 57; fel, Chicago, 59-60, M.A, 60, U.S. Pub. Health Serv. fel, 60-63. Ph.D.(psychol), 63. Statistician path, Bobs Roberts-Billings Hosp, 59; lectr. psychol. & counsr. psychother, Chicago, 60-62; psychometrist PSYCHOL, Am. Inst. Res, 63; asst. prof, SAN FRANCISCO STATE COL, 63-67; ASSOC. PROF, 68-, co-dir, U.S. Pub. Health Serv. res. award groups proj, 65-66. Chief assessment officer psychol. eval, Peace Corps, Venezuela, Micronesia, Philippines, Liberia, Chad, Niger, 63- Consult, U.S. Pub. Health Serv. res, Univ. California, 65; group consult, Esalen Inst, Calif, summer 66. Sig.C, U.S.A, 47-50. Group and individual psychotherapy in clinical psychology; human relations group training; factor analytic methods in psychological research; vocal and physical modes of communication. Publ: Co-auth, The double-bind communication client-centered, 60, auth, On reflection in psychotherapy, 61 & Emotional expression and psychotherapy, Univ. Chicago Human Develop. Counseling Center. Address: Dept. of Psychology, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

BECHILL, DR. VERNE C, b. Dearborn, Mich, Aug. 27, 32; m. 54; c. 4. SOCIOLOGY. B.A, Ohio Wesleyan, 54; M.A, Emory, 56; Ph.D.(sociol), Vanderbilt, 62. Statistician, Ohio Bur. Labor Statist, 54-55; instr. SOCIOL, Col. Wooster, 58-62; asst. prof, Kalamazoo Col, 62-65; ASSOC. PROF, ALMA COL.(MICH), 65- Summer participant, Nat. Sci. Found. Inst. Anthrop, 66, Univ. Mich. Faculty Develop. Seminar, Far East, 67. Fel. Sociol. Asn. Sociological methodology; social psychology; race relations; anthropology. Address: Dept. of Sociology, Alma College, Alma, Mich. 48801.

BECHT, PROF. J. EDWIN, b. Oak Park, Ill, July 20, 18; m. 42; c. 4. MARKETING, INTERNATIONAL BUSINESS. B.S, Southern Illinois, 47; M.S, Illinois, 48, Ph.D.(geog), 51. Instr. geog, Illinois, 48-49, asst, 49-50; asst. prof, Indiana, 53-55; transportation, geog. & int. bus, Houston, 55-67; PROF. MKT. & INT. BUS. & CHMN DEPT. BUS. ADMIN, WESTERN ILLINOIS, 67- Participant, Exp. in Int. Living, Sweden, 66. U.S.A, 41-45, 51-53, Lt. Col. Asn. Am. Geog; Nat. Coun. Geog. Ed; Mkt. Asn; Soc. Traffic & Transportation. Transportation; industrial location; resources. Publ: Co-auth, Mantrap-management training program, Center Res. Bus. & Econ, Univ. Houston, 63. Address: 815 S. Pearl, Macomb, Ill. 61455.

BECHTEL, PROF. K(ENNETH) C(LYDE), Sociol, see 10th ed, Soc. & Behav. Vols.

BECHTEL, RICHARD C(URRIE), b. Philadelphia, Pa, May 7, 15. BUSINESS COMMUNICATION. B.S, Bowdoin Col, 36. Acct. supvr, Bell Syst, 36-49; acct. mgr, Bell Tel: Co, 49-53, gen. treas. supvr, Am. Tel. & Tel. Co, 53-54, chief statistician, BELL TEL. CO, 54-56, gen. acct. mgr, 56-58, asst. comptroller, 58-63, asst. v.pres. long range planning, 63-65, ASST. V.PRES. BUS. INFO. SYSTS, 65- U.S.N.R, Lt. Nat. Asn. Acct; Financial Exec. Inst. Mathematics; systems and procedures. Address: Bell Telephone Co, 1 Pkwy, 11th Floor, Philadelphia, Pa. 19102.

BECHTOLD, DR. PETER KLAUS, b. Wertheim, Germany, Dec. 5, 37; U.S. citizen; m. 62; c. 3. POLITICAL SCIENCE. B.A, Portland State Col, 61; M.A, Princeton, 64, Nat. Defense Ed. Act & Rockefeller Found. fels. & Ph.D.(polit. sci), 67. ASST. PROF. POLIT. SCI, OREGON, 67- Polit. Sci. Asn; Mid. East Studies Asn. N.Am. Problems of political and social development in non-western areas, especially in the Middle East and North Africa. Publ: The military in Sudanese politics, Africa Today, spring 68. Address: Dept. of Political Science, University of Oregon, Eugene, Ore. 97403.

BECHTOLDT, PROF. HAROLD P(ALMER), b. Norton, Kans, Feb. 17, 14; m. 41. PSYCHOLOGY. A.B. & B.S, Kans. State Teachers Col, Emporia, 36; Nat. Res. Coun. fel, Chicago, 46-47, Ph.D.(psychol), 47. Assoc. prof. PSYCHOL, IOWA, 47-62, PROF, 62- Mem. psychol. sci. rev. cmt, Nat. Insts. Health, 63-67. U.S.N.R, 43-46. Psychol. Asn. Psychological measurements and statistics; visual perception. Publ: Construct validity: a critique, Am. Psychologist; Empirical study of the factor analysis stability hypothesis, Perceptual & Motor Skills, 62. Address: Dept. of Psychology, University of Iowa, East Hall, Iowa City, Iowa 52240.

BECK, DR. AARON T(EMKIN), b. Providence, R.I, July 18, 21; m. 50; c. 4. MEDICINE, PSYCHIATRY. A.B, Brown, 42; M.D, Yale 46. Intern, Rhode Island Hosp, 46, res. path, 47-48; res. neurol. & psychiat, Vet. Admin. Hosps, Framingham & West Roxbury, 48-50; fel. psychiat, Austen Riggs Center, 50-52; asst. prof. PSYCHIAT, SCH. MED, PENNSYLVANIA, 58-67, ASSOC. PROF, 67- Private practice, 54- Dir. res. proj, Nat. Inst. Ment. Health, 59-; consult. Vet. Admin. Hosp, Phila, Pa, 67. Psychiat. Asn; Acad. Psychoanal. Cognition; psychological aspects of depression. Publ: Depression: clinical, experimental and theoretical aspects, Hoeber, 67. Address: 406 Wynmere Rd, Wynnewood, Pa. 19096.

BECK, PROF. ANN F, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BECK, DR. ARMIN, b. St. Louis, Mo, Apr. 17, 24; m. 55; c. 6. URBAN SOCIOLOGY, EDUCATIONAL ADMINISTRATION. B.S, St. Louis, 42; M.A, Northwestern, 56, Ph.D.(ed. admin), 66. Supt. schs, Dist. 27, Northbrook, Ill, 57-64; ASSOC. PROF. INNER CITY STUDIES, NORTHEAST. ILL. STATE COL,

66- Staff assoc, sch-univ. teacher ed. proj, Great Cities Res. Coun, Chicago, field dir. planning, Study Pre-school Children, Evanston, Ill & dir. inst. adv. study teachers, principals, & supvr. of disadvantaged youth, Northwestern, 65-66; dir, Proj, Wingspread, Chicago, 66-67; Inst. Admin. Leadership Sch. Desegregation & Equal Ed. Opportunity, 67- U.S.N.R, 45-46. Teacher attitudes toward disadvantaged youth and communities. Address: Center for Inner City Studies, Northeastern Illinois State College, 700 E. Oakwood Blvd, Chicago, Ill. 60653.

BECK, DR. BERNARD, b. New York, N.Y, July 11, 38; m. 62; c. 1. SOCIOLOGY. B.A, Brooklyn Col, 58; Franklin Murphy, Jr. fel, Princeton, 58-59, Nat. Sci. Found. fel, 59-62, M.A, 60, Ph.D.(sociol), 63. Nat. Sci. Found. fel. sociol, Copenhagen, 63-64; ASST. PROF. SOCIOL, Stanford, 64-65; NORTHWESTERN, 65- Northwestern Univ. Coun. Intersocietal Studies res. grant, 66-; consult, Dept. Health, Ed. & Welfare, 66- Sociol. Asn; Soc. Study Social Probs. Comparative institutions; sociology of welfare and religion; sociological theory. Publ: Bedbugs, stench, dampness and immorality: a review essay about recent literature on poverty, summer 67 & Welfare as a moral category, winter, 67, Soc. Probs. Address: Dept. of Sociology, Northwestern University, Evanston, Ill. 60201.

BECK, PROF, BETTY ANNE, Eng, see 11th ed, Phys. & Biol. Vols.

BECK, DR. BRENDA E. F, b. Minneapolis, Minn, Mar. 23, 40. ANTHROPOLOGY. B.A, Chicago, 62; dipl, Oxford, 63, B.Litt, 64, D.Phil.(anthrop), 68. Nat. Sci. Found. fel, 62-67; LECTR. ANTHROP, CHICAGO, 68-, res. fel, S.Asian Studies, 68-69. Am. Inst. Indian Studies fel, 64-66; lectr, Sch. Adv. Studies, Paris, 67. Am. Anthrop. Asn; Royal Anthrop. Inst. Gt. Brit. & Ireland; Family Planning Asn. India. South Asian studies; social traditions and world view of peasants, particularly the peasants of Madras State, South India. Address: Dept. of Anthropology, University of Chicago, 1126 E. 59th St, Chicago, Ill. 60637.

BECK, PROF. CARL, b. Pittsburgh, Pa, Jan. 14, 30; m. 54; c. 1. POLITICAL SCIENCE, COMPARATIVE GOVERNMENT. A.B, Pittsburgh, 52, A.M, 54; James B. Duke fel, Duke, 57-58, Ph.D, 58. Lectr. POLIT. SCI, Pittsburgh, 52-54; Fulbright fel. & Soc. Sci. Res. Coun. fel, Munich, 58-59; sr. res. assoc, admin. sci. center, PITTSBURGH, 59-61, asst. prof, 59-62, assoc. prof, 62-65, PROF, 65-, DIR. INT. STUDIES PROG, 66- Mem. exec. cmt, Inter-Univ. Consortium for Polit. Res, 65-67; Europe Cmt, Comp. Admin. Group, 65-; chmn. info. retrieval cmt, coun. soc. sci, Data Arch, 66-; dir, Arch. Polit. Elites in East. Europe, 66- U.S.A, 54-56. AAAS; Polit. Sci. Asn; Asn. Adv. Slavic Studies. Comparative political systems; political sociology; administrative science; elite theory; political change. Publ: Contempt of congress; bureaucracy and political development in eastern Europe; co-auth, Political elites: A select and computer bibliography, M.I.T. Press, 68. Address: 5256 Beeler St, Pittsburgh, Pa. 15217.

BECK, C(HARLES) J, b. Euclid, Ohio, Mar. 1, 21; m. 51; c. 1. SOCIOLOGY. B.A, Iowa, 51; American Univ, 59. Interviewer, State Dept. Health, Iowa, 52-55; sociologist, State Reformatory for Men, Iowa, 55-63; DIR. ACTIVITY THER, IOWA SECURITY MED. FACILITY, 63- Sociol. Asn; Int. Soc. Gen. Semantics. Corrections; mental health; penology. Address: Dept. of Activity Therapy, Iowa Security Medical Facility, Anamosa, Iowa 52205.

BECK, PROF. CURT F(REDERIC), b. Berlin, Germany, Feb. 4, 24; nat; m. 51; c. 2. POLITICAL SCIENCE. A.B, Cornell, 43; M.A, Fletcher Sch. Law & Diplomacy, 44; Ph.D.(polit. sci), Harvard, 50. Instr. govt. & int. rels, CONNECTICUT, 47-55, asst. prof, 55-63, assoc. prof. POLIT. SCI, 63-66, PROF, 66- Intel. res. analyst, U.S. Dept. State, D.C, 52-53. Polit. Sci. Asn; Asn. Advance. Slavic Studies. International relations and governments of Eastern Europe, especially Czechoslovakia; developing countries in international relations. Publ: Can communism and democracy coexist?, Am. Slavic & E.European Rev; Czechoslovakia's penetration of Africa, 1955-1962, World Polit, 4/63. Address: Dept. of Political Science, University of Connecticut, Storrs, Conn. 06268.

BECK, DR. DOROTHY FAHS, b. New York, N.Y, Sept. 28, 05; m. 30; c. 1. SOCIOLOGY, STATISTICS. A.B, North Carolina, 28; Am-German student exchange fel, Univs. Bonn & Cologne, 28-29; M.A, Chicago, 32; Gilder fel, Columbia, 34-35, Ph.D.(sociol), 44. Statistician relief family surv. & personnel study, N.J. Emergency Relief Admin, 34; statist. analyst, Commercial Ed. Serv, U.S. Off. Ed, 35, 36; assoc. soc. economist, U.S. Cent. Statist. Bd, 36-38; res. supvr. & auth, Am. Col. Dentists, 40-42; statistician, cmt. anticoagulants, Am. Heart Asn, 47-53; asst. prof. biostatist, American Univ. Beirut, 54; vis. scholar, Columbia, 55-56; DIR. RES, FAMILY SERV. ASN. AM, 56- Statistician, U.S. Senate Cmt. Invest. Unemploy. & Relief, 37-38; dept. prev. med. & pub. health, med. col, Cornell, 51-52, comprehensive care & teaching prog, 52-53; prin. investr, res. proj, Nat. Inst. Ment. Health, 62- Sociol. Asn; Statist. Asn; Asn. Social Workers; Asn. Marriage Counsr; Pub. Health Asn; Med. Writers Asn. Social and medical research and statistics; social welfare; family casework; marriage counseling. Publ: Patterns in use of family agency service; The dynamics of group psychotherapy as seen by a sociologist, Sociometry, XXI: 98-128, 180-197; Marital conflict: its course and treatment as seen by caseworkers, Soc. Casework, XLVII: 211-221. Address: 523 W. 121st St, New York, N.Y. 10027.

BECK, DR. EDWARD C(REER), b. Spanish Fork, Utah, Feb. 20, 18; m. 44; c. 4. PSYCHOLOGY. B.A, Brigham Young, 50; Ph.D.(psychol), Utah, 54. U.S. Pub. Health Serv. trainee clin. psychol, col. med, Utah, 51-52, res. assoc. physiol, 52-54; staff psychologist, VET. ADMIN. HOSP, 54-56, RES. PSYCHOLOGIST, 57- Res. instr, col. med, Utah, 54-58, asst. prof, 58-64, assoc. res. prof. neurol, 64-, res. prof. psychol. & chmn. div. med. psychol, 67-; U.S. Pub. Health Serv. sr. scientist, neurobiol. res. unit, Marseille, 60-61. Consult. & dir. psychol. serv, Utah State Prison, 56-60. Mem. prog. cmt. psychiat, neurol. & psychol, Vet. Admin. Cent. Off, 64-67, cmt. eval. psychol. res. assoc. prog, 67- U.S. Merchant Marine, 44-47, Lt. AAAS; Psychol. Asn; Physiol. Soc; Asn. Res. Nerv. & Ment. Diseases; Inter-Am. Soc. Psychol; Psychonomic Soc. Electrocortical reactions associated with conditioned responses; developmental electrophysiology of brain function and behavior. Publ: Electrocortical reactions associated with conditioned responses, Electroencephalog. & Clin. Neurophysiol; Effect of brain stem lesions on conditioned responses in cats, Exp. Neurol; co-auth, Visually evoked potentials: amplitude changes with age, Science, 66. Address: Veterans Administration Hospital, 500 Foothill Blvd, Salt Lake City, Utah 84117.

BECK, DR. FRANK VICTOR, b. Chicago, Ill, Jan. 26, 11; m. 46; c. 4. AGRICULTURAL ECONOMICS. B.S, Cornell, 37, M.S, 38; Ph.D, Wisconsin, 42. Asst. agr. agent, Cornell, 38; agr. economist, field seed inst, Wisconsin, 40-42; exten. economist & consult, col. agr, Rutgers, 46-63; econ. adv. agr, U.S. Agency Int. Develop, D.C, 61-65; AGR. CONSULT, 65- Kellogg Found. traveling fel, Int. Conf. Agr. Economists, Mysore, India, 58. Seminar leader, Cent. Treaty Orgn, Ankara, Turkey, 64; mem. study Comilla coop, World Bank & Food & Agr. Orgn, Pakistan, 64; Litton Benelux's Greek Economic Feasibility Study, Greece, 65; study agrarian reform Ecuador, Int. Develop. Serv, D.C. & econ. consult, Ecuador, 66. U.S.A.F.R, 42-46, Capt. Am. Agr. Econ. Asn; Int. Asn. Agr. Econ. Agricultural economics and policy. Address: Fernwood, Heather Lane, R.D. 5, Princeton, N.J. 08540.

BECK, DR. HARRIETT K(RAEMER), Psychol, see 10th ed, Soc. & Behav. Vols.

BECK, DR. HARRY S(TERLING), b. Quincy, Ill, Sept. 11, 19; m. 46; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Quincy Col, 49; M.A, Drake, 50; Ed.D, Virginia, 60. Intern sch. psychol, div. spec. ed, State Dept. Pub. Instr, Ill, 50, chief area psychologist, 50-57; res. assoc. ed. psychol, Virginia, 57-60, vis. clin. psychologist, hosp, 57-58; asst. prof. ed. & psychol. & dir. ed. clin, State Col. Iowa, 60-64; DIR. PUPIL PERSONNEL SERV, CARLSBAD UNION SCH. DIST, 64- U.S.A.A.F, 44-46, Sgt. Psychol. Asn; fel. Asn. Ment. Deficiency. Diagnosis and education of brain-injured children; reversals in reading; projective techniques; word-color associations; remedial techniques in education and psychology. Publ: Relationship of symbol reversals to monocular and binocular vision, Peabody J. Ed; Detecting psychological symptoms of brain-injury, Except. Children; Relationship of colors to various concepts, J. Ed. Res. Address: 3561 Donna Dr, Carlsbad, Calif. 92008.

BECK, PROF. HUBERT PARK, b. Ft. Wayne, Ind, Dec. 26, 07; m. 30; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Harvard, 29; M.A, Chicago, 31; Romiett Stevens scholar & Ph.D.(ed. admin. & sociol), Columbia, 45. Teacher, pub. schs, N.Y, 30-32; N.J, 32-34; asst. ed, teachers.col, Columbia, 34-36; prof. ed. & psychol, Limestone Col, 36-38; instr. ed. & asst. dir. gen. col, Minnesota, 38-41; asst. prof. ed. & psychol, Rhode Island, 41-45; personnel researcher, Am. Type Founders, 45; researcher & statistician traffic & finance, Pan Am. Airways, 45-47; instr. ED, CITY COL. NEW YORK, 47-49, asst. prof. & dir. instnl. res, 49-57, ASSOC. PROF, 57-, DIR. TEACHER PLACEMENT, 68- Vis. prof, American Univ. Beirut, 53-54; qual. control officer, Ed. Resources Info. Center, 67-68. Consult, Pan Am. World Airways, 47-48, 54-56; learning to typewrite, New York Pub. Schs, 66- Secy. bd, Int. Schs. Serv, 65- Ed. Res. Asn; Soc. Psychol. Study Social Issues; Psychol. Asn; Comparative Ed. Soc. Relationships between spelling difficulties and reading and writing handicaps; difficulties in developing a common world language; interrelationships between society and education; education in international understanding. Publ: Men who control our universities; Easy steps to touch typewriting. Address: 523 W. 121st St, New York, N.Y. 10027.

BECK, DR. ISABEL, b. Boise, Idaho, Mar. 17, 16; m. 56. PSYCHOLOGY. A.B, Occidental Col, 41, M.A, 49; Ph.D, Southern California, 59. Psychologist, adv. serv, Los Angeles City Schs, 47-53; instr. psychol. & counsr, Los Angeles Harbor Col, 54-65; curriculum coordinator, Los Angeles Jr. Col. Dist, 65-66; RES. PSYCHOLOGIST, SOUTHWEST REGIONAL LAB. ED. RES. & DEVELOP, 66- Res. proj. coordinator, Portland State Col. & U.S. Off. Ed, 61; consult, State Syst. Higher Ed, Ore, 61-62; KCET-TV, Calif, 66-; Sy Wexler Films, 66-; Media Insts, Univ. Southern California, 66- U.S.N, 43-46, Res, 46-54, Lt. Psychol. Asn. Social perception; judgement of behavioral cues as a basic ability; uses of new media in education; computers in education. Publ: Study of criteria of social perception and some related variables, Dissertation Abstracts; Social perception, age, sex and sibling rank, Family Life Coordinator. Address: 11300 La Cienega Blvd, Inglewood, Calif. 90304.

BECK, PROF. JACOB, b. New York, N.Y, Dec. 12, 29; m. 58. EXPERIMENTAL PSYCHOLOGY. B.A, Yeshiva, 50; M.A, Cornell, 51, U.S. Pub. Health Serv. fel, 56-57, Ph.D.(psychol), 58. Instr. PSYCHOL, Pennsylvania, 57-59, asst. prof, 59-61; Harvard, 61-66; assoc. prof, OREGON, 66-67, PROF, 67- Psychol. Asn; Psychonomic Soc; Optical Soc. Perception; psychophysics; human learning and thinking. Publ: Effect of the surround on the perception of texture patterns, J. Exp. Psychol, 66; Perceptual grouping produced by line figures, Perception & Psychophys, 67. Address: 2639 Hasting St, Eugene, Ore. 97402.

BECK, PROF. JAMES R(EED), b. Fredericktown, Ohio, Nov. 9, 04; m. 49; c. 2. GEOGRAPHY. B.S, Kent State, 25; M.S, Chicago, 29, Ph.D, 36. PROF. GEOG, KENT STATE, 29- Asn. Am. Geog; Nat. Coun. Geog. Ed. Political geography. Address: Dept. of Geography, Kent State University, Kent, Ohio 44240.

BECK, JAMES W(ILLIAM), Econ, see 10th ed, Soc. & Behav. Vols.

BECK, PROF. LESTER F(RED), b. Hildebrand, Ore, Apr. 27, 09; m; c. 2. PSYCHOLOGY. A.B, Oregon, 30, A.M, 31; Sharpe fel, Brown, 32-33, Ph.D. (psychol), 33. Instr. PSYCHOL, Brown, 33-34; asst. prof, Oregon, 34-38, assoc. prof, 38-49; prof, Southern California, 49-55; Portland State Col, 55-62; RES. PROF, TEACHING RES. DIV, ORE. STATE SYST. HIGHER ED, 62- Mem. staff, off. chief signal officer, War Dept, 42-44. Consult, ment. hyg. div, U.S. Pub. Health Serv, 48-; U.S. Dept. State, 52-54; E.C. Brown Trust, 54-; U.S. Off. Ed, 58- U.S.N, 44-46, Lt. Fel. Psychol. Asn. Effectiveness of psychological films; educational media and college instruction. Publ: Human growth; Human heredity; Unconscious motivation. Address: c/o Teaching Research, Oregon College of Education, Monmouth, Ore. 97361.

BECK, PROF. LLOYD H(ENRY), b. St. Louis, Mo, Feb. 17, 15; m. 62. PSYCHOLOGY. A.B, Oberlin Col, 37, A.M, 38; Duke, 39-41; Ph.D.(psychol), Brown, 45. Asst. psychol, Oberlin Col, 38-39; instr, Brown, 41-42, physics, 42-43, jr. res. physicist, 43-44, res. physicist, 44-45; instr. psychol, Yale, 45-47, asst. prof, 47-55; res. psychologist, Michigan, 55-58, assoc. res. psychologist, 58-63; assoc. prof. PSYCHOL, WIS. STATE, STEVENS POINT, 64-66, PROF. & CHMN. DEPT, 66- Grants, U.S. Pub. Health Serv, 61-64; Wis. State Univ, 65-66. Res. contractor, Ypsilanti State Hosp, 63-65, res. psychologist, 65-66. Consult, Proctor & Gamble Co, 48; Conn. Chem. Res. Corp, 49. Fel. AAAS; Psychol. Asn. Vision and perception; optical instruments for visual use; measurement and theory of olfaction; visual functions in schizophrenia. Publ: Osmics, In: Medical physics. Address: Route 2, Box 81, Stevens Point, Wis. 54481.

BECK, DR. MORRIS, b. New York, N.Y, Feb. 17, 22; wid. ECONOMICS. B.A, Pa. State, 42; M.A, Columbia, 47, Ph.D.(econ), 51. Instr, Brooklyn Col, 47-49; lectr. ECON, Columbia, 49-52; asst. prof, RUTGERS, 52-58, assoc. prof, 58-64, PROF, 64- Ford Found. fel, Pub. Finance Seminar, 59; res. assoc, Nat. Bur. Econ. Res, 62-64; sr. res. scientist, Temporary Cmn. New York City Finances, 64-66. Consult, N.J. Cmn. State Tax Policy; Greater Newark Develop. Coun; U.S. Govt. consult, Adv. Cmn. Intergovt. Rels. & Nat. Cmn. Urban Affairs, 66- U.S.A, 43-46, 1st. Lt. Econ. Asn; Finance Asn. State and local finance; urban economics. Publ: Ability to shift the corporate income tax, Nat. Tax J, 12/50; Interstate variations in the financing of shared functions of state and local government, 65 & Fiscal disparities in metropolitan areas, 67, Proc. Nat. Tax Asn. Address: 90 W. Cedar St, Livingston, N.J. 07039.

BECK, PROF. NORMAN WOOD, b. Cottage Grove, Ore, July 8, 01; m. 31; c. 1. POLITICAL SCIENCE. A.B, Chicago, 23, fel, 26-27, Ph.D, 41; Columbia, 51-52, 54. Acting asst. prof. polit. sci, Missouri, 29-30; instr, Yale, 31-32; Dartmouth Col, 32-38; Brooklyn Col, 39-41; N.Y. Univ, 41-42; vis. lectr, Smith Col, 43-44; asst. prof, Wilson Col, 44-47; assoc. prof. SOC. SCI, JERSEY CITY STATE COL, 47-57, PROF, 57- Instr, Hunter Col, 39-43, 50-51. Polit. Sci. Asn; Nat. Ed. Asn. Political theory; history and government of New Jersey; practicum in practical politics; political parties. Publ: Relation of New Jersey tax policy to the development of American public finance, Syllabus, Taxation in N.J; New frontier for civic education, J. Teacher Ed; New Jersey, In: Encyclopedia Britannica. Address: 77 E. Main St, Mendham, N.J. 07945.

BECK, PROF. ROBERT C(LARENCE), b. Quincy, Ill, Sept. 11, 31; m. 52; c. 4. PSYCHOLOGY. A.B, Illinois, 53, Ph.D.(psychol), 58. U.S. Pub. Health Serv. res. fel, 57-59; asst. prof. psychol, WAKE FOREST, 59-62, assoc. prof, 62-67, PROF. PSYCHOL. & DIR. OFF. RES, 67- Psychol. Asn. Experimental psychology; motivation and learning. Publ: On secondary reinforcement and shock termination, Psychol. Bull, 61. Address: Box 7423, Wake Forest University, Winston-Salem, N.C. 27109.

BECK, DR. ROBERT L(EE), b. Corridon, Mo, May 9, 28; m. 55; c. 2. AGRICULTURAL ECONOMICS. B.S, Missouri, Columbia, 57, M.S, 59; Ph.D.(agr. econ), Mich. State, 63. Teacher, elem. sch, Mo, 49-50; lab. technician, St. Louis Fed. Milk Mkt. Adminstr, 50-52, 54-55; asst. prof. ECON, S.DAK. STATE, 63-67, ASSOC. PROF, 67- U.S.A, 52-54. Agr. Econ. Asn. Agricultural marketing and price analysis, specifically dairy marketing. Publ: Co-auth, Missouri dairy markets, part III, Southwest Res. Bull. 674C, Univ. Missouri, 11/59; auth, Nonparametric statistics in marketing research, 12/65 & Negotiated pricing of fluid milk: role of federal orders and influence on pricing policies, 12/65, J. Farm Econ. Address: Dept. of Economics, South Dakota State University, Brookings, S.Dak. 57006.

BECK, DR. S(AMUEL) J(ACOB), b. Tecuci, Rumania, July 19, 96; nat; m. 26; c. 2. PSYCHOLOGY. A.B, Harvard, 26; A.M, Columbia, 27, Ph.D.(psychol), 32. Fel. psychol, Inst. Child Guid, N.Y, 27-28; psychologist, Bd. Guardians, 28-29; sr. res. psychologist, Boston Psychopath. Hosp, 29-32; res. assoc. psychol, Harvard Med. Sch, 32-33, 35-36; res. fel. psycihat, Rockefeller Found, 33-35; head psychol. lab, Michael Reese Hosp, 36-50; lectr. psychol, CHICAGO, 50-57, prof. lectr. PSYCHOL. & PSYCHIAT, 57-64, EMER. PROF. LECTR, 64- Lectr, Northwestern, 42-60. Mem, Nat. Cmt. Ment. Hyg. AAAS; fel. Psychol. Asn.(distinguished contribution award, 61); Soc. Proj. Tech. & Personality Develop.(pres, Soc. Proj. Tech, 55, award, 65); fel. Orthopsychiat. Asn.(v.pres, 43, pres, 49); Rorschach Int. Soc.(v.pres, 52-). Personality; interaction of affective traits with intellectual traits as measured by projective tests; structure of the unit personality; symptoms of schizophrenia; dominant character traits; total adjustment patterns. Publ: Psychological processes in the schizophrenic adaption, Grune, 65; Emotions, knowing and Rorschach, In: The clinical interpretation of psychological tests, Little; Schizophrenia: interadaptation of person, family and culture, In: The origins of schizophrenia, Excerpta Med. Int, Amsterdam, 67. Address: Dept. of Psychology, University of Chicago, Chicago, Ill. 60637.

BECKER, DR. ABRAHAM S(AMUEL), b. New York, N.Y, Feb. 7, 27; m. 50; c. 2. ECONOMICS. A.B, Harvard, 49; cert, Russian Inst. & A.M, Columbia, 52, Soc. Sci. Res. Coun. fel, 53-54, Ford Found. fel, 55, Ph.D.(econ), 59. Res. supvr, Mid-European Studies Center, N.Y, 53, consult, 53-55; ECONOMIST, Corp. Econ. & Indust. Res, D.C, 55-57; RAND CORP, SANTA MONICA, 57- Lectr, California, Los Angeles, 63, 67-68. U.S.A, 44-46. Econ. Asn. Economy of Eastern Europe and Soviet Union. Publ: Soviet national income and product under the seven year plan, (in prep); Prices of producers durables in the U.S. and U.S.S.R. in 1955. Address: 1019 Selby Ave, Los Angeles, Calif. 90024.

BECKER, PROF. ARTHUR P(ETER), b. Milwaukee, Wis, Apr. 28, 18; m. 41; c. 5. ECONOMICS. M.A, Wisconsin, 40, Ph.D.(econ), 43. Instr. ECON, Connecticut, 42-44; asst. prof. & chmn. dept, sch. bus. & econ, Eastern New Mexico, 44-45; prof. & chmn. dept, Morningside Col, 45-46; asst. prof, Ohio State, 46-48; assoc. prof. & chmn. dept. exten. div, Wisconsin, 48-56, WISCONSIN, MILWAUKEE, 56-57, PROF, 57-, chmn. dept, 56-63. Dir. res, Robert Schalkenbach Found, 67- Consult, Milwaukee Pub. Schs, 59-62; Div. Econ. Develop, City of Milwaukee, 64- Chmn, Cmt. Taxation, Resources & Econ. Develop, 62-; dir, Wisconsin Coun. Econ. Ed, 63-65; cmnr, Redevelop. Authority City of Milwaukee, 63-; pres. & dir. credit union, Wisconsin, Milwaukee, 67- Econ. Asn; Nat. Asn. Housing & Redevelop. Off. Public finance; urban land economics. Publ: Psychological production and conservation, Quart. J. Econ; The Wisconsin state tax dilemma, 63 & Urban development and federal grants, 65, Proc. Nat. Tax Asn. Address: Dept. of Economics, University of Wisconsin, Milwaukee, Wis. 53201.

BECKER, DR. BRUCE CLARE, b. Seattle, Wash, Dec. 9, 29; m. 55; c. 6. CLINICAL PSYCHOLOGY. A.B, St. Ambrose Col, 50; A.M, St. Louis, 54; Ph.D, Loyola (Ill), 62. Clin. psychologist, U.S. Naval Hosp, Great Lakes, Ill, 58-65; psychologist, neurol. serv, vet. admin. hosp, 65-68, CHIEF PSYCHOLOGIST, 68- Assoc, med. sch, Northwestern, 67-70. Cert. in clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 67. U.S.N.R, 54- Psychol. Asn. Personality. Address: Psychology Service, Veterans Administration Hospital, Downey, Ill. 60064.

BECKER, DR. CHARLES McVEY, b. Cleveland, Ohio, Nov. 13, 37; m. 64. ECONOMICS. B.A, Arizona, 60, M.A, 62, Ph.D.(econ), 66; summer, Western Reserve, 62. ASST. PROF. ECON, Nevada Southern, 65-67; TEXAS CHRISTIAN, 67- Econ. Asn. Business cycle measurement and its implications, especially in United States copper output. Address: Dept. of Economics, Texas Christian University, Ft. Worth, Tex. 76129.

BECKER, DR. ERNEST, Cultural Anthrop, see 10th ed, Soc. & Behav. Vols.

BECKER, PROF. GARY S(TANLEY), b. Pottsville, Pa, Dec. 2, 30; m. 54; c. 2. ECONOMICS. A.B, Princeton, 51; A.M, Chicago, 53, Ph.D.(econ), 55. Asst. prof. ECON, Chicago, 54-57; assoc. prof, COLUMBIA, 57-60, prof, 60-68, ARTHUR LEHMAN PROF, 68- Mem. sr. res. staff, Nat. Bur. Econ. Res. 57- Econ. Asn.(Clark medal, 67); fel. Economet. Soc; fel. Statist. Asn; Nat. Acad. Ed.(v.pres, 65-67). Economic theory; labor economics; human resources. Publ: The economics of discrimination; Human capital, Columbia, 64; An economic analysis of fertility, In: Demographic and economic change in developed countries; A theory of the allocation of time, Econ. J, 9/65. Address: 127 Brambach Rd, Scarsdale, N.Y. 10583.

BECKER, DR. GILBERT, b. Philadelphia, Pa, Mar. 15, 28; m. 57; c. 3. EXPERIMENTAL PSYCHOLOGY. B.B.A, Miami (Fla), 49, M.S, 60; Ph.D. (exp. psychol), Pittsburgh, 63. Asst. instr. PSYCHOL, Pittsburgh, 60-63; asst. prof, La. State, 64-66; MANITOBA, 66-67, ASSOC. PROF, 67- AAAS; Psychol. Asn. Development and structure of temperament and motivation in the human and in the rat; experimental study of personality. Publ: Complementary-needs hypothesis, authoritarianism, dominance, and other Edwards personal preference schedule scores, J. Personality, 64; Social dominance and subordination in the rat as a function of postweaning electrical stimulation, J. Genetic Psychol, 65; Affiliate perception and the arousal of the participation-affiliation motive, Perceptual & Motor Skills, 67. Address: Dept. of Psychology, University of Manitoba, Winnipeg 19, Man, Can.

BECKER, DR. GORDON M(AURICE), b. New York, N.Y, Mar. 8, 24; m. 51, 67; c. 3. PSYCHOLOGY. B.S, Connecticut, 48; M.A, Columbia, 49, Ph.D. Pittsburgh, 55. Clin. psychologist, Allen's Invalid Home, 50-52; trainee clin. psychol, Vet. Admin, 52-55; exp. psychologist systs. res, U.S. Naval Res. Lab, 55-56; scientist, elec. boat div, Gen. Dynamics Corp, 56-59; head data processing sect, Itek Corp, Mass, 59-61; prfnl. staff psychol, Gen. Elec. Co, Calif, 61-64; ASSOC. PROF. ed, Ferkauf Grad. Sch, Yeshiva, 65-67; PSYCHOL, HOWARD, 67- Res. assoc, Boston, 59; Cowles Found, Yale, 60; west. mgt. sci. inst, California, Los Angeles, 60-61, lectr, Santa Barbara, 63; Hunter Col, 66-67. Consult, Cowles Found, Yale, 59-60; Entelek Corp, Mass, 65-; Gen. Elec. Co, N.Y, 66-67. U.S.N.A.F, 43-45, Lt. Psychol. Asn. Human decision-making processes, especially mathematical formulations and computer programming: planning horizons. Publ: Sequential decision-making, J. Exp. Psychol: co-auth, Stochastic models of choice behavior, Behav. Sci, 63 & Value: behavioral decision theory, Ann. Rev. Psychol, 67. Address: Dept. of Psychology, Howard University, Washington, D.C. 20001.

BECKER, PROF. HAROLD K, b. Los Angeles, Calif. Sept. 16, 33; m. 60; c. 3. CRIMINOLOGY, PUBLIC ADMINISTRATION. A.B, Southern California, 59, M.S, 63. ASSOC. PROF. CRIMINOL, CALIF. STATE COL. LONG BEACH, 63- Researcher eval. surveillance methods of crime prevention, Los Angeles County Sheriff's Dept. & Off. Law Enforcement, 66-68. U.S.C.G, 53-55. Law enforcement; community relations: police management: special police problems. Publ: Co-auth, New dimensions in criminal justice, spring 68 & Law enforcement: a selected annotated and general bibliography, spring 68, Scarecrow. Address: Dept. of Criminology, California State College at Long Beach, Long Beach, Calif. 90801.

BECKER, PROF. HENRY F(LOYD), b. White Rock, S.Dak. Apr. 30, 98; m. 26. GEOGRAPHY. B.S, Chicago, 24, M.S, 25. Instr. GEOG, Marshall Col, 25-26; univ. high sch, Chicago, 26-28; assoc. prof, FLA. STATE, 28-41, prof, 41-64, head dept, 47-64, emer. prof, 64-67; RETIRED. Adj. prof, Rollins Col, 64-67. Asn. Am. Geog. Geography of Florida, southeastern United States, Mexico and Central America: resource use education in the south. Publ: Florida, wealth or waste?; co-auth, Florida reference atlas, 60; auth, Resources for tomorrow, Holt, 64. Address: 950 Gamewell Ave, Maitland, Fla. 32751.

BECKER, PROF. HOWARD S(AUL), b. Chicago, Ill. Apr. 18, 28; m. 49; c. 1. SOCIOLOGY. A.B, Chicago, 46, M.A, 49, Walgreen scholar, 49-50, Ph.D. (sociol), 51. Instr. sociol. & soc. sci, Chicago, 52-53; Ford Found. fel, Illinois, 53-55; res. sociologist, Community Studies, Inc, Mo, 55-62; assoc. prof. SOCIOL, Stanford, 62-65; PROF, NORTHWESTERN, 65- Ed, Soc. Probs, 61- Sociol. Asn: Soc. Study Social Probs; Anthrop. Asn; Soc. Appl. Anthrop. Sociology of work; deviant behavior: social psychology. Publ: Boys in white; Outsiders, 63 & co-auth, The other side, 64, Macmillan. Address: Dept. of Sociology, Northwestern University, Evanston, Ill. 60201.

BECKER, DR. JAMES A(NTHONY), b. Erie, Pa, Oct. 4, 34; m. 58; c. 2. PSYCHOLOGY. A.B, Marquette, 57; M.A, Loyola, 59, Ph.D, 60. Instr. PSYCHOL, Loyola, 58-60; asst. prof, Xavier (Ohio), 60-62; THOMAS MORE

COL, 62-64, ASSOC. PROF, 64- Psychol. Asn. Factor analysis; teaching techniques. Address: Turkey Foot Rd, Ft. Mitchell, Ky. 41017.

BECKER, PROF. JAMES F(AGAN), b. Cedar Rapids, Iowa, Nov. 3, 21; m. 48. ECONOMICS. B.A, Iowa, 47, M.A, 49; Ph.D.(econ), Columbia, 57. Instr. journalism, Iowa, 47-48, ECON, 49; Iowa State Teachers Col, 49-50; N.Y. UNIV, 53-57, asst. prof, 57-62, ASSOC. PROF, 62- Danforth summer fel, Harvard, 59. Mem. steering cmt, Socialist Scholars Conf, 65. U.S.A.A.F, 43-46, Sgt. Philosophy of classical economics; economic integrations; economic theory of returns to scales. Publ: Adam Smith's theory of social science, South. Econ. J; Arcadian rumination, Columbia Univ. Forum. Address: Dept. of Economics, New York University, New York, N.Y. 10003.

BECKER, DR. JOSEPH, b. Washington, D.C, May 25, 27; m. 52; c. 1. PSYCHOLOGY. A.B, Washington, 50, M.A, 52; Ph.D, Duke, 58. Chief psychologist, John Umstead Hosp, 58-61; asst. prof. psychol, Illinois, Urbana, 61-63, assoc. prof, 63-65; PSYCHOL. & PSYCHIAT, WASHINGTON (SEATTLE), 65-68, PROF, 68- Res. assoc, Duke, 60-61. Consult, McLean County Ment. Health Clin. & Vet. Admin, 61- U.S.A, 46-47. AAAS; Psychol, Asn; Acad. Polit. & Soc. Sci; N.Y. Acad. Sci. Publ: Co-auth, Communicative value of parental speech in families with disturbed children, J. Nerv. & Ment. Disease, 65; Nonlexical speech similarities as an index of intrafamilial identification, 67 & Peer conformity and achievement characteristics of female manic-depressives, (in press), J. Abnorm. Psychol. Address: Dept. of Psychology, University of Washington, Seattle, Wash. 98105.

BECKER, JOSEPH A(LOYSIUS), Statist, see 11th ed, Phys. & Biol. Vols.

BECKER, JOSEPH M, S.J, b. Denver, Colo, Feb. 17, 08. ECONOMICS. A.B, Xavier, 31; M.A, St. Louis, 34, S.T.L, 40; fels, Columbia, 44 & 45, Ph.D. (econ), 50. RES. ASSOC, inst. soc. order, St. Louis Univ, 50-55; ECON, CAMBRIDGE CENTER SOC. STUDIES, 65- Ford Found. grant, 66-68. Consult, U.S. Dept. Labor. Econ. Asn; Indust. Rels. Res. Asn; Int. Soc. Labor Law & Social Legis. Unemployment insurance; social security; labor legislation. Publ: In aid of the unemployed, 65 & Guaranteed income for the unemployed—the story of SUB, 68, Hopkins; Shared government in employment security. Address: Cambridge Center for Social Studies, 42 Kirkland St, Cambridge, Mass. 02138.

BECKER, DR. MARY L(OUISE), b. St. Louis, Mo, Mar. 19, 28; m. 66; c. 1. POLITICAL SCIENCE. B.S, Washington (St. Louis), 49, Blewett fel, 50, M.A, 51; fel, Radcliffe Col, 52, Ph.D.(govt), 57; Fulbright scholar, Karachi, 53-54. Intel. res. analyst, U.S. Dept. State, 57-59; int. rels. officer, U.S. AGENCY INT. DEVELOP, 59-64, int. develop. officer, 64-66, SCI. RES. OFFICER, 66- Mem. adv. bd, Wash. Citizenship Seminar, Nat. YMCA-YWCA, 61-; behav. sci. subcmt, For. Area Res. Coord. Group, 67- Polit. Sci. Asn; Asn. Asian Studies; Soc. Int. Develop; Soc. Pub. Admin. Politics and history of South Asia and Middle East; nationalism, leadership dynamics and interpersonal behavior; political parties and public opinion formation; international organization and law. Publ: Muhammad Iqbal, Am. Friends of Mid.East, 4/65. Address: U.S. Agency for International Development, Washington, D.C, 20523.

BECKER, DEAN NATHAN M(AURICE), b. Cincinnati, Ohio, Jan. 8, 14; m. 38; c. 3. ECONOMICS. Taft fel, Cincinnati, 36-37, Ph.D.(econ), 38. Instr. econ, Toledo, 37-38, asst. prof, 38-39; with bd. econ. warfare, U.S. Dept. State, 40-47; export mgr, Brit, Am. & East. Corp, 47-52; econ. adv, Gen. Staff Hqs, Korea, 52; export mgr. & mkt. res, Solar Steel Corp, 52-58; v.pres, Standard Int. Corp, 60-64; PROF. ECON, PACE COL, 63-, DEAN SCH. BUS. ADMIN, 66- Lectr. for. trade, City Col. New York, 47-63. Econ. Asn. Business cycles; foreign trade; money and banking; international monetary problems; liquidity. Publ: Liquidity and the dollar, The Banker (London), 12/63. Address: 44 Overlook Ave, West Orange, N.J. 07052.

BECKER, DR. RUSSELL J(AMES), b. Rochester, N.Y, July 1, 23; m. 45; c. 3. PSYCHOLOGY, THEOLOGY. B.A, Kalamazoo Col, 44; B.D, Colgate-Rochester Divinity Sch, 46; Ph.D.(theol), Chicago, 50. Dean students, univ. col, Chicago, 49-51, staff counsr, counseling center, 49-52, admin. coordinator, 51-52, instr. relig. & personality, univ, 51-52; asst. prof. psychol. & dean men, Kalamazoo Col, 52-53; asst. prof. psychol, Col. of Wooster, 53-56, assoc. prof, 56-57; minister of pastoral care, Glenview Community Church, Ill, 57-60; ASSOC. PROF. PASTORAL THEOL, YALE DIVINITY SCH, 60- Am. Asn. Theol. Schs. fel, 67-68. Psychol. Asn; Acad. Psychother; Soc. Sci. Study Relig. Psychotherapy; psychological study of religion; pastoral counseling. Publ: Family pastoral care, Prentice-Hall, 65; Laymen as counselors, Fortress, (in press). Address: Yale University Divinity School, 409 Prospect St, New Haven, Conn. 06510.

BECKER, DR. SELWYN W, b. Salem, Mass, Apr. 10, 29; m. 52; c. 3. PSYCHOLOGY. B.A, Rochester, 52; M.S, Minnesota, 53; Ph.D.(psychol), Pa. State, 57. PROF. PSYCHOL, GRAD. SCH. BUS, CHICAGO, 59- U.S. Pub. Health Serv. res. fels, 58-59 & 67-68. U.S.A, 46-48, S/Sgt. AAAS; Psychol. Asn. Social psychology; group dynamics; organization theory. Address: Graduate School of Business, University of Chicago, Chicago, Ill. 60637.

BECKER, DR. THEODORE L(EWIS), b. Newark, N.J, Nov. 23, 32. POLITICAL SCIENCE, LAW. B.A, Rutgers, 54, LL.B, 56; M.A, Maryland, 60; Ph.D.(polit. sci), Northwestern, 64. Mem. legal staff, Attorney Gen. N.J, 56-57; asst. POLIT. SCI, Maryland, 58-60; Northwestern, 60-62, instr, 62; asst. prof, Oakland, 62-64; HAWAII, 64-66, ASSOC. PROF, 66- Vis. assoc. prof, Wayne State, 67-68; summers, consumer res. analyst, Benton & Bowles Inc, N.Y, 55; vis. assoc. prof, N.Y. Univ, 67. Mil.Intel, U.S.A.R, 57-63. Polit. Sci. Asn. Sociology of law; the causes and the political functioning of cross-cultural variations in judicial structures and forms similar to judicial structures. Publ: Political behavioralism and modern jurisprudence, 65 & Comparative judicial politics, 68, Rand McNally; The Supreme Court decision, Oxford Univ, 68. Address: Dept. of Political Science, University of Hawaii, Honolulu, Hawaii 96822.

BECKER, DR. WESLEY C(LEMENCE), b. Rochester, N.Y, Mar. 17, 28; m. 50; c. 4. EDUCATIONAL PSYCHOLOGY. A.B, Stanford, 51, M.A, 53, U.S. Pub. Health Serv. fel, 54-55, Ph.D.(psychol), 55. Instr. PSYCHOL, ILLINOIS, URBANA, 55-56, asst. prof, 56-60, ASSOC. PROF, 60- Consult, Inst. Juvenile Res, Chicago, Ill, 66-; Vet. Admin. U.S.A, 46-49. Psychol. Asn; Psychonomic Soc; Ed. Res. Asn; Soc. Res. Child Develop. Child development; psychopathology; behavior modification; teacher training; programmed instruction. Publ: Developmental psychology, Annual Rev. Psychol; A genetic approach to the interpretation and evaluation of the process-reactive distinction in schizophrenia, J. Abnorm. & Soc. Psychol; The contingent use of teacher attention and praise in reducing classroom behavior problems, J. Spec. Ed, spring 67. Address: Bureau of Educational Research, University of Illinois, Urbana, Ill. 61801.

BECKETT, DR. GRACE, b. Smithfield, Ohio, Oct. 7, 12. ECONOMICS. A.B, Oberlin Col, 34, A.M, 35; Ph.D, Ohio State, 39. Asst. ECON, Ohio State, 36-39; assoc. prof, Ind. Cent. Col, 39-41; instr, ILLINOIS, 41-43, assoc, 43-45, asst. prof, 45-51, ASSOC. PROF, 51- Econ. Asn. International economics; foreign commercial policy of the United States; economic development of Latin America. Publ: Reciprocal trade agreements program; Foreign trade by air; Commerce on the Great Lakes system. Address: 189 Commerce West, University of Illinois, Urbana, Ill. 61801.

BECKETT, PROF. PAUL L(OUIS), b. Warren Co, Ill, Oct. 18, 13; m. 35; c. 2. POLITICAL SCIENCE. A.B, Monmouth Col, 35; A.M, Illinois, 38; La. State, 38-39; Ph.D, California, Los Angeles, 49. Asst. polit. sci, California, Los Angeles, 39-40, bur. govt. res, 40-41; exec. secy, Town Hall, Los Angeles, Calif, 41-42; assoc. admin. analyst, div. admin. mgt, U.S. Bur. Budget, 42-43; res. technician, Haynes Found, Los Angeles, Calif, 43-44, County Bur. Admin. Res, 44-45; asst. prof. govt. & asst. dir. div. govt. res, New Mexico, 45-47; asst. prof. pub. admin, Washington State, 47-49, assoc. prof, 49-51; prof. & chmn. dept, American Univ. Beirut, 51-53; PROF. POLIT. SCI, WASHINGTON STATE, 54-, chmn. dept, 56-64. Consult, Pakistan Planning Bd, 57. Polit. Sci. Asn; Soc. Pub. Admin.(ed, Digest, Nat. Conf, 59); Pub. Personnel Asn. Public administration; state government; comparative public administration. Publ: Auth, Public administration training as technical assistance: some further observations based on experience in Beirut, 3/56 & co-auth, Washington State's lawmakers: some personnel factors in the Washington legislature, 3/57, West. Polit. Quart; auth, Operation Self-Help: Washington State's new merit system law, Pub. Personnel Rev, 1/63. Address: Dept. of Political Science, Washington State University, Pullman, Wash. 99163.

BECKETT, DR. PETER G. S, b. Dublin, Ireland, Oct. 11, 22; U.S. citizen; m. 54; c. 1. PSYCHIATRY. B.A, Trinity Col.(Dublin), 43, M.B, B.Ch, B.A.O, 45, M.D, 60. Intern, casualty dept, Sir Patrick Dun's Hosp, Dublin, 46; surg. intern, Whipps Cross Hosp, London, 48-49; rotating intern, Overlook Hosp, Summit, N.J, 49-50; res. & asst. to staff psychiat, Mayo Clin, Rochester, Minn, 50-55; staff psychiatrist & chief adult inpatient serv, LAFAYETTE CLIN, 55-57, asst. dir. res. PSYCHIAT, 57-66, ASSOC. DIR. RES, 66-, CHIEF ADOLESCENT SERV, 62- Prof. sch. med, Wayne State, 65- Consult, Vet. Admin. Hosp, Dearborn, Mich. R.A.M.C, 46-48, Capt. Fel. Am. Psychiat. Asn; Brit. Med. Asn. Clinical psychiatric research, particularly clinical aspects of schizophrenia and psychiatric aspects of adolescent behavior disorders. Publ: Adolescents out of step: their treatment in a psychiatric hospital, Wayne State, 65; Energy production and premorbid history in schizophrenia, Arch. Gen. Psychiat, 2/63; Schizophrenic-like mechanisms in monkeys, Am. J. Psychiat, 3/63. Address: Lafayette Clinic, 951 E. Lafayette, Detroit, Mich. 48207.

BECKHAM, DR. ALBERT S(IDNEY), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

BECKHART, PROF. BENJAMIN HAGGOTT, b. Denver, Colo, Nov. 9, 97; m. 21; c. 1. ECONOMICS. A.B, Princeton, 19; A.M, Columbia, 20, Ph.D, 24. From instr. to PROF. BANKING, GRAD. SCH. BUS, COLUMBIA, 21-Vis. asst. prof, Princeton, 26-27; Fulbright lectr, Melbourne, 57 & Kobe, 67; vis. lectr, Australian Admin. Staff Col, 60. Dir. res, Chase Nat. Bank, N.Y, 39-49, consult, 49-54; secy. bd. trustees, banking res. fund, Asn. Reserve City Bankers, 38-45; dir. res. proj. inflation, Am. Assembly, 51-52; consult, Equitable Life Assurance Soc. U.S, 54-61. Del, Int. Conf. Commercial Bank Economists, 47, 50, 53 & 56; Int. Credit Conf, Italy, 51. Econ. Asn; Finance Asn.(pres); Conf. Bus. Econ. Money and banking; central banking; foreign banking systems. Publ: Ed. & co-auth, New York money market & Business loans of American commercial banks; ed, Banking systems. Address: 24 Thelberg Rd, Poughkeepsie, N.Y. 12601.

BECKHART, GORDON H(AGGOTT),b. New York, N.Y, Feb. 14, 23; m. 48; c. 3. INDUSTRIAL STATISTICS. A.B, Princeton, 47; M.S, Rutgers, 55. Control physicist, E.I. du Pont de Nemours & Co, 48-51; coordinator qual. eng, Radio Corp. Am, 51-61, mgr. eng. prod. assurance, 61-67; PRES, AUTOMATION INST. CHERRY HILL, 67- U.S.A, 43-45. Statist. Asn; Opers. Res. Soc; Inst. Math. Statist. Quality control. Publ: The solution of tube problem; Time planning of reliability program. Address: 1019 Sycamore St, Haddon Heights, N.J. 08035.

BECKMAN, DR. PAUL EDWIN, JR, b. Youngstown, Ohio, Nov. 10, 18; m. 52; c. 5. PSYCHOLOGY. B.A, Youngstown, 50; M.A, Ohio State, 52; Ph.D.(exp. child psychol), Iowa, 55. Asst. prof. PSYCHOL, Ft. Hays Kans. State Col, 55-58; from asst. prof. to ASSOC. PROF, YOUNGSTOWN, 58- Clin. psychologist, Trumbull County Guid. Center, 61- U.S.A.A.F, 42-45, Sgt. Psychol. Asn. Superior child; motivation; verbal mediation. Address: Dept. of Psychology, Youngstown University, Youngstown, Ohio 44503.

BECKMAN, PROF. THEODORE N, b. Russia, Sept. 3, 95. ECONOMICS. B.S, Ohio State, 20, A.M, 22, Ph.D, 24. Instr. econ. & sociol, OHIO STATE, 21-22, BUS. ORGN, 22-24, asst. prof, 24-29, assoc. prof, 29-32, prof, 32-65, EMER. PROF, 65- Consult. in charge census of wholesale distrib, Bur. Census, U.S. Dept. Commerce, 29-35, chief economist in charge surv. capital needs small bus, 35; chief consult, State Attorney-Gen's Off, Fla, 35; consult, Fed. Trade Cmn, 35, 41; wage & hour div, U.S. Dept. Labor, 41, 54; chief consult, civilian supply div, War Prod. Bd, 42-; State Attorney-Gen's. Off, Ohio, 55; consult. to ed. on mkt. terminol, Webster's Dictionary, 56.

Hon. chmn, NAW Distribution Res. & Ed. Found. Sales & Mkt. Exec. Int. mkt. ed. year award, 62; Ohio State distinguished teaching award, 62. U.S.A, 17-18, 2nd Lt. Econ. Asn; Statist. Asn.(v.pres, 40); Mkt. Asn.(v.pres, 39, Converse award, 59); fel. Int. Inst. Arts & Letters. Wholesaling; credit; distribution; marketing; chain stores; statistics; marketing research; excess profits tax; antitrust matters. Publ: Wholesaling, 3rd ed, 59 & Marketing, 8th ed, 67, Ronald; co-auth, Credits and collections: management and theory, 8th ed, McGraw, 69. Address: 2158 N. Pkwy, Columbus, Ohio 43221.

BECKMANN, PROF. MARTIN J(OSEF), b. July 5, 24; m. 56; c. 2. ECONOMICS. Dipl, Göttingen, 47; dipl, Freiburg, 49, Dr. rer. pol, 50. Fel. polit. econ, Chicago, 50-51, res. assoc. ECON, Cowles Cmn. Res. Econ, 51-55; asst. prof, Cowles Found. Res. Econ, Yale, 55-59; assoc. prof, BROWN, 59-61, PROF, 61- Fel, Center Adv. Study Behav. Sci, 55-56; prof, Bonn, 62. Consult, Gen. Traffic Planning Bd, N. Rhine-Westphalia, Germany, 64; transportation sci. div, Gen. Motors Res. Labs, 67. Mem. cmt. on theory of traffic flow, U.S. Hwy. Res. Bd, 57- German Army, 43-45. Econ. Asn; fel. Economet. Soc; Oper. Res. Soc; Regional Sci. Asn; Inst. Mgt. Sci; German Opers. Res. Soc; German Asn. Pub. Welfare. Operations research; mathematical economics; location theory; decision and organization theory; linear and dynamic programming. Publ: Co-auth, Studies in the economics of transportation, Yale Univ, 56; auth, Location theory, Random, 68; Dynamic programming and economic decisions, Springer, 68. Address: Dept. of Economics, Brown University, Providence, R.I. 02912.

BECKNER, DR. EARL R(UCKER), Econ, see 10th ed, Soc. & Behav. Vols.

BECKSTEAD, DR. ROBERT WILFORD, b. Salt Lake City, Utah, May 12, 31; m. 55; c. 4. ECONOMICS. B.S, Utah, 55, M.B.A, 56; Ph.D.(econ), Illinois, 63. Tax analyst, Utah Found, 56-57; assoc. prof. ECON, Tarkio Col, 62-64; asst. prof, NEW MEXICO STATE, 64-67, ASSOC. PROF, 67. NASA res. grant, 65-67; dir. & coordinator, Bus. Mgt. Seminars, 65- Consult Eric Clearing House & U.S. Dept. Air Force, 67. Econ. Asn; Regional Sci. Asn. State and local public finance; managerial economics; economic forecasting. Publ: Some methods of collecting delinquent real estate taxes, J. Munic. Finance, 5/65; Public burden and benefit of the Apollo program on Las Cruces, New Mexico, West. Econ. J, 67. Address: P.O. Box 4353, University Park Station, Las Cruces, New Mex.88001.

BECKWITH, DR. BURNHAM P(UTNAM), b. Carthage, Mo, Sept. 2, 04; m. 48. POLITICAL ECONOMY. B.A, Stanford, 26; Harvard, 26-28; M.A, Southern California, 30, Ph.D.(econ), 32. Instr. econ, Kansas, 34-35; res. asst, teachers col, Columbia, 35-37; instr, Queens Col.(N.Y), 37-38; assoc. prof, Georgia, 38-40; economist, War Prod. Bd, 41-45; instr, American Univ, France, 45-46; economist, Off. U.S. Mil. Govt, Berlin, 46-49; RES. POLIT. ECON. & WRITING, 49- Econ. Asn. Non-Marxian socialist welfare economics; logical positivism; scientific prediction of social trends; political meritocracy. Publ: Economic theory of a socialist economy, Stanford, 49; Marginal-cost price-output control, Columbia, 55; The next 500 years, Exposition, 67. Address: 19 Coleman Place, Apt. 38, Menlo Park, Calif. 94025.

BECKWITH, DR. R(ICHARD) E(DWARD), Statist, Opers. Res, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BEDARD, DR. MARGARET M(ARY), b. Richmond, Que, May 23, 15. SOCIOLOGY. B.A, Marianapolis Col, 37; M.A, Catholic Univ, 46, Ph.D.(sociol), 50. Instr. sociol, Our Lady of Cincinnati Col, 50-51; from asst. prof. to PROF. SOCIOL, COL. NEW ROCHELLE, 51- Rep, Int. Cath. Child Bur. UN Hq, mem, Interfaith Cmn. Marriage & Family, 65- Nat. Coun. Family Rels; Sociol. Asn; Can. Sociol. & Anthrop. Asn. Family; theory; prisoners' children; international social problems. Publ: Marriage and the family in forty best sellers. Address: 89 Leland Ave, New Rochelle, N.Y. 10805.

BEDELL, DR. RALPH C, b. Hale, Mo, June 4, 04; m. 29. PSYCHOLOGY. B.S, Cent. Mo. State Col, 26; A.M, Missouri, 29, Gregory scholar, 30-31; Gregory fel, 31-32, Ph.D.(ed & psychol), 32. Prof. ed. psychol. & dir. bur. guid, Northeast Mo. State Teachers Col, 33-37; dean faculty, Cent. Mo. State Col, 37-38; assoc. prof. ed. psychol. & measurements, Nebraska, 38-46, prof, 46-50; prof. psychol. & ed. & chmn. dept, American Univ, 50-52; dir. prog. develop. & rev. br, div. int. ed, U.S. Off. Ed, 52-55; secy-gen, S.Pac. Cmn, Noumea, New Caledonia, 55-58; chief, counseling & guid. insts. prog, U.S. Off. Ed, 58-66; PROF. ED, MISSOURI, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 49. U.S.N, 43-46, Comdr. Fel. Psychol. Asn; Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv. International and governmental administration; educational and social psychology. Publ: Relationship between the ability to recall and the ability to infer in specific learning situations. Address: 201 Mark Twain Hall, University of Missouri, Columbia, Mo. 65201.

BEDERMAN, PROF. SANFORD HAROLD, b. Cincinnati, Ohio, May 2, 32; m. 60; c. 1. GEOGRAPHY. B.A, Kentucky, 53; M.A, La. State, 57; Minnesota, 57-59. Instr. GEOG, GA. STATE COL, 59-61, asst. prof, 61-65, ASSOC. PROF, 65- Nat. Sci. Found. sci. faculty fel, 65-66. Sig.C, U.S.A, 53-55, Sgt. Asn. Am. Geog; Nat. Coun. Geog. Ed. Cultural geography, especially tropical Africa, primitive land use and tropical commercial activities. Publ: Co-auth, Subsistence activity on and around Mount Cameroon, Victoria Div, West Cameroon, Ga. State Col, 67; The Cameroons Development Corporation: partner in national growth, Cameroons Develop. Corp, West Cameroon, 68. Address: Dept. of Geography, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

BEDFORD, DR. G. STEWART, b. Greeley, Colo, Dec. 19, 20; m. 44; c. 2. CLINICAL PSYCHOLOGY. A.B, Colo. State Col. Ed, 46; Ph.D.(clin. psychol), Denver, 54. Clin. psychologist, State Ment. Hyg. Clin, Calif, 54-60; private practice, 60- Lectr, Chico State Col, 65- Fel, Inst. Rational Living, 66- U.S.A.A.F, 43-45. Psychol. Asn; Asn. Marriage Counsr. Psychotherapy, especially individual, group marital and marathon therapy; community mental health. Address: 341 Broadway, Suite 311, Chico, Calif. 95926.

BEDFORD, PROF. NORTON M(OORE), b. Mercer, Mo, Nov. 11, 16; m. 43; c. 2. ACCOUNTING. B.B.A, Tulane, 40, M.B.A, 47; Ph.D.(acct), Ohio State, 50. Assoc. prof. ACCT, Washington (St. Louis), 50-53; PROF, ILLINOIS, URBANA, 54-, dir. exec. develop. prog, 57-59. Erskine summer fel, Univ. Canterbury, 67. Mgt. consult, 52- U.S.A, 42-45, Capt. Am. Acct. Asn. (v.pres, 61); Nat. Asn. Acct; Inst. Mgt. Sci. Income determination; educational methods; information theory. Publ: Income determination theory, Addison-Wesley, 65; co-auth, Advanced accounting, Wiley, 2nd ed, 67; auth, Modern accounting, Ronald, 68. Address: Box 72, Commerce West, University of Illinois, Urbana, Ill. 61801.

BEDROSIAN, DR. HRACH, b. Teaneck, N.J, Aug. 11, 29; m. 57; c. 1. PERSONNEL & INDUSTRIAL PSYCHOLOGY. B.A, Rutgers, 51; M.S, City Col. New York, 53; Ph.D, Columbia, 62. Admin. asst. personnel dept, Wright Aeronaut. Div, Curtiss-Wright Corp, 55-58; spec. lectr, Newark Col. Eng, 58-62; asst. prof. MGT, N.Y. UNIV, 62-67, ASSOC. PROF, 67- Res. asst. indust. consult, Herrold Assocs, 58-60. U.S.A, 53-55. Psychol. Asn. Job attitudes and morale, selection placement, training, management. Address: 140 Roosevelt St, Cresskill, N.J. 07626.

BEDROSIAN, DR. PETER, b. Milford, Mass, Feb. 16, 35; m. 61. PSYCHOLOGY. A.B, Clark, 60; Ph.D.(psychol), Rochester, 66. Faculty asst. PSYCHOL, Western Illinois, 64-65; instr, STATE UNIV. N.Y. BUFFALO, 65-66, ASST. PROF, 66- Psychol. Asn; Ed. Res. Asn. Cognitive processes; experimental methods. Address: Dept. of Psychology, State University of New York, Buffalo, N.Y. 14214.

BEE, DR. HELEN LUCILLE, b. Tacoma, Wash, Apr. 27, 39. CHILD PSYCHOLOGY. B.A, Radcliffe Col, 60; Nat. Inst. Ment. Health fel, Stanford, 61-64, Ph.D.(psychol), 64. ASST. PROF. PSYCHOL, Clark, 64-65; WASHINGTON (SEATTLE), 65-, Grad. Res. Fund grant, 66-67. Nat. Inst. Ment. Health res. grants, 65-67; summer, acting instr, Stanford, 63. Psychol. Asn; Soc. Res. Child Develop. Development of attention; achievement motivation; cognitive development; Head Start evaluation. Publ: Co-auth, Some speculations concerning the lag between perceiving and performing, Child Develop, 65; auth, Parent-child interaction and distractibility in 9-year old children, Merrill-Palmer Quart, 67; co-auth, Sex-role stereotypes and self concepts in college students, J. Consult. Psychol, 67. Address: Dept. of Psychology, University of Washington, Seattle, Wash. 98105.

BEE, PROF. LAWRENCE STEPHEN, b. Provo, Utah, July 15, 11; m. 32, 66; c. 2. SOCIOLOGY. B.A, Brigham Young, 35; M.A, Iowa State, 36; Ph.D. (sociol), Cornell, 39. Instr. SOCIOL, Oregon, 39-45; asst. prof, Reed Col, 45-46; PROF, Utah State, 46-49; KANSAS, 50- Mem. bd. dirs, Nat. Coun. Family Rels, 46-58, Kansas City Coun. Family Life, 62- & Nat. Coun. Alcoholism, 65- Sociol. Asn; fel. Asn. Marriage Counsr. Prediction of marital adjustment. Publ: Marriage and family relations, Harper, 59. Address: Dept. of Sociology, University of Kansas, Lawrence, Kans. 66045.

BEE, DR. ROBERT L, b. Ithaca, N.Y, Dec. 21, 38; m. 60; c. 2. ANTHROPOLOGY. B.A, Kansas, 60, Nat. Inst. Ment. Health fel, Wenner-Gren Found. fel. & Ph.D.(anthrop), 67; M.A, California, Los Angeles, 62. ASST. PROF. ANTHROP, CONNECTICUT, 67- U.S.A, 62-64, 1st Lt. Fel. Anthrop. Asn; Soc. Appl. Anthrop. Sociocultural change; American Indians especially modern reservation communities; applied anthropology. Publ: Changes in Yuma social organization, Ethnology, 63; Peyotism in North American Indian groups, Trans. Kans. Acad. Sci, 65; Potawatomi peyotism: the influence of traditional patterns, Southwest. J. Anthrop, 66. Address: Dept. of Sociology & Anthropology, University of Connecticut, Storrs, Conn. 06268.

BEEBE, DR. ELINOR LEE, b. Udall, Kans, Apr. 15, 92. PSYCHOLOGY. A.B, Fairmount Col, 14; A.M, Columbia, 28; Nat. Res. Coun. scholar, Hopkins, 28-30, Ph.D.(child psychol), 32. Dir. child develop. & parent ed, Bd. Ed. Albany, N.Y, 30-35; asst. prof. pub. health nursing, Yale Sch. Nursing, 36-37; California, Los Angeles, 37-43, assoc. prof, 43-51; coordinator community health, Calif. Hosp. Sch. Nursing, 51-63; RETIRED. Child development; preschool children. Publ: Co-auth, Curriculum guides for teachers of children 2-6 years; auth, Motor learning of children in equilibrium in relation to nutrition, Genetic Psychol. Monogr; Health nursing in the curriculum, Am. J. Nursing. Address: 10521 Ilona Ave, Los Angeles, Calif. 90064.

BEEBE, DR. GILBERT W(HEELER), Med. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BEECROFT, PROF. ERIC, b. Toronto, Ont, Sept. 7, 03; m. 52; c. 1. ECONOMICS, GOVERNMENT. B.A, Toronto, 25, M.A, 27; Ph.D.(govt), Yale, 34. Asst. prof. polit. sci, California, Los Angeles, 31-41; exec. secy. int. studies, Nat. Planning Asn, D.C, 41-42; mem. staff, Bd. Econ. Warfare, 42-43; spec. rep. to India, Ceylon & Afghanistan, For. Econ. Admin, 44-46; spec. asst. to Secy. Interior, 46-47; loan officer, Int. Bank Reconstruct. & Develop, 47-54; dir, Community Planning Asn. Can, 54-60; planning & develop, Can. Fedn. Mayors & Municipalities, 60-65; PROF. POLIT. SCI, WESTERN ONTARIO, 65- Ed, Community Planning Rev, 54-60. Mem. gov. bd, Int. Fedn. Housing & Planning, 58-66; nat. exec. cmt, Can. Conf. Ed, 60-62; v.chmn. & co-founder, Can. Coun. Urban & Regional Res, 62-66, chmn. bd. dir, 66-; mem. bd. dir, Can. Center Community Studies, 66-, mem. Can. Tax Found. Soc. Planning Off, Am. Polit. Sci. Asn; Am. Econ. Asn; Can. Econ. Asn; Inst. Pub. Admin, Can. Address: Dept. of Political Science, University of Western Ontario, London, Ont, Can.

BEEGLE, PROF. J(OSEPH) ALLAN, b. Bedford, Pa, Sept. 13, 18; m. 51; c. 4. SOCIOLOGY. B.S, Pa. State Col, 39; A.M, Iowa State Col, 41; Ph.D, La. State, 46. PROF. SOCIOL, MICH. STATE, 46- Fulbright res. grant, Finland, 52-53. Sociol. Asn; Pop. Asn; Rural Sociol. Soc. Demography; rural sociology; rural social systems. Publ: Co-auth, Rural sociology, strategy of change & Rural social systems. Address: 442 Rosewood, East Lansing, Mich. 48823.

BEELEY, DR. ARTHUR L(AWTON), b. Manchester, Eng, Aug. 28, 90; nat; m. 16; c. 2. SOCIOLOGY. A.B, Brigham Young, 13; A.M, Chicago, 18, Ph.D, 25; London, 32-33; LL.D, Utah, 55. Asst. prof. psychol, Utah, 18-21; instr. & asst. prof. soc. econ, Chicago, 23-26; prof. SOCIOL. & SOC. WORK,

UTAH, 27-56, EMER. PROF, 56-, EMER. DEAN SCH. SOC. WORK, 56-, dean, 37-56, dir. bur. student counsel, 27-46, inst. world affairs, 46-56, Frederick William Reynolds lectr, 36. Res. assoc, div. criminol, State Dept. Pub. Welfare, Ill, 25-26; spec. lectr, Nat. Police Acad, Fed. Bur. Invest, 36, 40. Ed. consult, 9th Serv. Command, U.S.A, 43-47. Mem. exec. bd, Nat. Conf. Bail & Criminal Justice, 64- Vollmer award, Am. Soc. Criminol, 65. Fel. AAAS; fel. Sociol. Asn; fel. Orthopsychiat. Asn. Educational and social psychology; mental hygiene; left-handedness; criminal justice administration; social work education. Publ: Principles of social psychology; Bail system in Chicago; co-auth, A ministry of justice: the Pound-Cardozo concept, embodied in a Utah state council, Univ. Utah Law Rev, winter 63. Address: 263 S. 12th E, Salt Lake City, Utah 84102.

BEELEY, DR. BRIAN W, b. Woodford, Eng, Jan. 21, 35; m. 62. GEOGRAPHY. B.A, Durham, 56, Ph.D.(geog), 60. Res. asst. geog, Durham, 56-59, res. fel, 59-61; res. officer mkt, Economist Intel. Unit Ltd, London, 61-62; res. fel. planning, Orgn. Econ. Coop. & Develop, Paris, 62-63, consult, 63-64; asst. prof. GEOG, KENT STATE, 64-66, ASSOC. PROF, 66- Asn. Am. Geog; Am. Geog. Soc; Mid. East Inst; Mid. East Studies Asn. Economic and social change and development, especially rural, with special reference to Middle East and Mediterranean areas; the application of geographic techniques in planning. Address: Dept. of Geography, Kent State University, Kent, Ohio 44240.

BEEM, DR. EUGENE ROBERT, b. Canton, Ohio, Feb. 25, 20; m. 45; c. 4. ECONOMICS. B.A, Col. Wooster, 42; Ph.D.(econ), Pennsylvania. Chmn. dept. econ, Kalamazoo Col, 50-54; asst. prof. bus. admin, California, 54-58; V.PRES. CORP. RES, SPERRY & HUTCHINSON CO, 58- Adj. assoc. prof, Columbia, 60-63; lectr, City Col. New York, 67-68. Trustee, Col. Wooster, 66- Exec. secy, Coun. Consumer Info, 53-54, treas, 55. U.S.A, 42-46, Lt. Econ. Asn; Mkt. Asn. Marketing; food retailing; economic theory. Publ: Business appraises consumer testing agencies & Who profits from trading stamps?, Harvard Bus. Rev; A diversity theory for market processes in food retailing, J. Farm Econ, 8/66. Address: 30 Church St, Pleasantville, N.Y. 10570.

BEEN, DR. RICHARD O(LOF), b. Skanee, Mich, Feb. 27, 08; m. 46; c. 2. ECONOMICS. A.B, George Washington, 37, M.A, 39; Ph.D.(agr. econ), California, Berkeley, 65. ECONOMIST, div. mkt. res, bur. agr. econ, U.S. Dept. Agr, 29-51; ECON. RES. DEPT, SAFEWAY STORES, INC, 54- Specialist, exp. sta. California, Berkeley, 64 & lectr, univ, 64 & 67. Farm Econ. Asn: Economet. Soc; Inst. Math. Statist. Econometric analysis; marketing margins and costs; statistical methodology. Publ: Price spreads between farmers and consumers, Agr. Info. Bull. Address: Safeway Stores, Inc, Box 660, Fourth & Jackson Sts, Oakland, Calif. 94604.

BEENHAKKER, DR. HENRI L(OUIS), b. Haarlem, Holland, June 29, 34; m. 64. MANAGEMENT SCIENCE, ECONOMICS. Dutch Govt. grant, Delft, 55-60, B.S, 58, M.S, 60; M.S, Purdue, 62, Ph.D.(indust. eng), 63; Stanford, 63-64. Indust. engr, Shell Oil, Holland, 59-60; instr. fluid mech, sch. civil eng, Purdue, 60-61, res. asst. & substitute teacher, sch. indust. eng. 61-63; opers. analyst, STANFORD RES. INST, 63-65, Brazil, 65-66, rep, 66-68, OPERS. ANALYST, CALIF, 68- Fulbright fel, Inst. Int. Ed, 60-61. Consult, Community Hosp, Indianapolis, Ind, 61-63. Dutch Army, 54-55, Lt. Inst. Indust. Eng; Opers. Res. Soc. Am; Sci. Res. Soc. Am; Royal Dutch Soc. Grad. Eng. Mechanical engineering; industrial engineering; management sciences; social and behavioral sciences; operations research; statistics; applied mathematics; transportation; economics and data processing. Publ: Multiple correlation—a technique for prediction of future hospital bed needs, Opers. Res, 10/63; Optimization versus suboptimization, Int. J. Prod. Res, 64; New dimensions in information retrieval systems, Data Processing Year Book, 65. Address: Stanford Research Institute, 333 Ravenswood Ave, Menlo Park, Calif. 94025.

BEER, DR. LAWRENCE W(ARD), b. Portland, Ore, May 11, 32; m. 61; c. 2. POLITICAL SCIENCE. A.B, Gonzaga, 56, M.A, 57; Sophia Univ, Japan, 58-60; Mod. Japan Proj. fel, Washington (Seattle), 64-65, Nat. Defense Ed. Act fel, 65-66, Ph.D.(polit. sci), 66. Instr. philosophy & Eng, int. div, Sophia Univ, Japan, 57-58 & 60-61; financial counseling coordinator, Calif. Credit Union League, 61-62; teaching asst, Far East. Inst, Washington (Seattle), 62-64; ASST. PROF. POLIT. SCI, COLORADO, 66- Summer res. assoc, grad. sch. int. studies, Denver, 68, vis. lectr, fall 68. Mem, Center Japanese Soc. & Polit. Studies, 63- Polit. Sci. Asn; Asn. Asian Studies. Freedom of expression in Japanese constitutional law; Japanese constitutionalism; comparative study of East Asian constitutional law and political systems; constitutional theory; credit cooperatives abroad, especially through work on credit unions in Asia, particularly Japan, in cooperation with CUNA International. Publ: Co-auth. & ed, Credit union family financial counseling, Calif. League Assoc. Serv, 62; auth, The public welfare and freedom of expression in Japan, Asian Law Symp, Univ. Washington Law Rev, 68; Some dimensions of Japan's present and potential relations with Communist China, Asian Surv, 68. Address: Dept. of Political Science, University of Colorado, Boulder, Colo. 80302.

BEER, PROF. SAMUEL H(UTCHISON), b. Bucyrus, Ohio, July 28, 11; m. 35; c. 3. GOVERNMENT. A.B, Michigan, 32; Rhodes scholar, Oxford, 32-35; Ph.D, Harvard, 42. Staff mem, Democratic Nat. Cmt, 35-36; reporter, N.Y. Post, 36-37; Fortune Mag, 37-38; instr. GOVT, HARVARD, 38-42, asst. prof, 46-48, assoc. prof, 48-53, PROF, 53-, chmn. dept, 54-58. Fulbright and Guggenheim fels, 53-54. U.S.A, 42-45, Capt. Polit. Sci. Asn. Publ: Treasury control: the coordination of economic and financial policy in Great Britain; co-ed, Patterns of government: the major political systems; auth, British politics in the collectivist age. Address: Dept. of Government, Harvard University, Cambridge, Mass. 02138.

BEERS, PROF. HOWARD W(AYLAND), b. Gouverneur, N.Y, Apr. 14, 05. RURAL SOCIOLOGY. B.S, Cornell, 29, M.S, 30, Ph.D, 35; Chicago, 30-31. From asst. prof. to DISTINGUISHED PROF. RURAL SOCIOL, KENTUCKY, 39-, DIR. CENTER DEVELOP. CHANGE, 66-, head dept. rural sociol, 48-59 & dept. sociol, 51-59. Vis. prof, Col. Agr, Athens, Greece, 49-50; coordinator rural projs, Near East Found; collab, Econ. Coop. Admin, Athens, Greece, 49-50; exten. eval. specialist, European Productivity Agency, 55-56; vis. prof, Col. Agr, Bogor, Indonesia, 59-66; assoc, Agr. Develop. Coun, Inc, 59-66; chief of party, Univ. Kentucky Contract Team, Bogor, 62-Consult, Ford Found, India, 58. Ed, Kentucky, 45; Rural Sociol, 48-49. Trustee, Ky. Welfare Found, 48-58. Rural Sociol. Soc.(pres, 53); Sociol. Asn; Pop. Asn; Sociol. Res. Asn; Int. Union Sci. Study Pop. Rural social organization; measurements of family relationship in farm families of central New York; community land-use planning; sociology of development. Address: Center for Developmental Change, University of Kentucky, Lexington, Ky. 40506.

BEERS, PROF. JAMES LOWELL, b. Omaha, Nebr, Oct. 1, 20; m. 48; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. A.B, Col. Empora, 48; fel, Kansas State, 49, M.S, 50; fel, Kansas, 50-51; Missouri, 54-55. Head dept. sociol, William Woods Col, 51-54; prof. SOCIOL. Col. Wooster, 55-58; PROF. & CHMN. DEPT, WIS. STATE, LA CROSSE, 58- Spec. adv, Common Pleas Court, Ohio, 55-58. U.S.A, 40-45. Sociol. Asn. Criminology; marriage and family; race relations. Publ: Ecological study of delinquency in Emporia, Kansas; Case study of the criminal gang; Case studies in crime. Address: Dept. of Sociology, Wisconsin State University, La Crosse, Wis. 54601.

BEERY, DEAN JOHN R(EPLOGLE), b. Tyrone, Pa, Mar. 4, 09; m. 43; c. 1. MATHEMATICS, EDUCATION. A.B, Juniata Col, 30, hon. LL.D, 51; A.M, Chicago, 34; scholar, Columbia, 38-39, Ph.D, 42. Teacher, high schs, Pa, 30-32, N.J, 32-38; assoc. dir. occup. adjustment study, Nat. Asn. Sec. Sch. Prins, 39-41; assoc. prof. ed, MIAMI (FLA), 42-46, prof. ed. & coordinator univ. guid. center, 46-47, DEAN SCH. ED, 47- AAAS; Psychol. Asn. Infinite products; conceptions of democracy. Publ: Professional preparation and effectiveness of beginning teachers; co-auth, School follows through & Occupational adjustment and the school. Address: 7921 S.W. 50th Court, Miami, Fla. 33143.

BEESON, DR. WILLIAM J(EAN), b. Crawfordsville, Ind, June 26, 26; m. 53; c. 2. ANTHROPOLOGY. B.A, Illinois, 51, M.A, 52; Ph.D.(anthrop), Arizona, 66. Res. assoc. archaeol, Illinois, 56-57; instr. ANTHROP, SACRAMENTO STATE COL, 57-61, asst. prof, 61-66, ASSOC. PROF, 66- Asst. prof, Illinois, summer 65. U.S.A.A.F, 44-46, Sgt. Soc. Am. Archaeol; Anthrop. Asn. Archaeology, especially the Midwest, Southwest and California. Publ: Co-auth, The Gamble site, 60 & The excavation of three Hopewell mounds at the Caterpillar Tractor Company, 60, Ill. Archaeol. Surv, Inc; auth, The stages of fill of room 10 at the Pollock site, Plateau, 57. Address: Dept. of Anthropology, Sacramento State College, Sacramento, Calif. 95819.

BEEZER, DR. ROBERT H(AMILTON), Psychol, see 10th ed, Soc. & Behav. Vols.

BEFU, PROF. HARUMI, b. Los Angeles, Calif, Mar. 20, 30; m. 59; c. 2. ANTHROPOLOGY. B.A, California, Los Angeles, 54; M.A, Michigan, 58; Ph.D. (anthrop), Wisconsin, 62. Asst. prof. ANTHROP, Nevada, 61-62; Missouri, 62-64; vis. assoc. prof, Michigan, 64-65; ASST. PROF, STANFORD, 65-Wenner-Gren Found. Anthrop. Res. grant-in-aid, 62 & 64; Nat. Sci. Found. res. grant, 66-67. Anthrop. Asn; Asn. Asian Studies; Japanese Soc. Ethnol. Methodology and theory; kinship; culture change; comparative analysis of Far Eastern cultures; social structure; Japanese culture. Publ: Japanese usages of terms of relationship, Southwest. J. Anthrop; co-auth, Types of corporate unilineal descent groups, Am. Anthropologist, 62; auth, Political relation of the village to the state, World Politics, 67. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

BEGANDO, DR. JOSEPH S(HERIDAN), b. Roseland, Kans, Jan. 7, 21; m. 43; c. 3. ECONOMICS. B.S, Kans. State Col, Pittsburg, 42; M.S, Illinois, 47, Ph.D.(econ), 51. Asst. mkt, Illinois, 46-47, instr, 48-51; commerce, Kans. State Col, Pittsburg, 47-48; asst. prof. mkt, Kansas, 51-53; assoc. prof. pharm. & asst. dean, ILLINOIS, CHICAGO, 53-58, asst. to pres, 58-61, v.pres. med. center, 61-66, CHANCELLOR, 66- Achievement award, Kans. State Col, Pittsburg, 59. U.S.C.G, 42-45, Lt. Address: University of Illinois at the Medical Center, 833 S. Wood St, Chicago, Ill. 60612.

BEGGS, A(LEXANDER) KENNETH, Econ, see 10th ed, Soc. & Behav. Vols.

BEGLEY, DR. CARL E(DWARD), b. Springfield, Ky, Nov. 4, 28; m. 58. CLINICAL PSYCHOLOGY. B.S, Kentucky, 51, M.A, 55, Ph.D, 61. Psychologist, U.S. Pub. Health Serv. Hosp, Lexington, Ky, 54-55; practicum supvr, Kentucky, 57-58; psychologist, Child Guid. Serv, Lexington, Ky, 57-59; prin. psychologist, State Hosp, Danville, 59-61; chief psychologist, Ment. Health Clin. Duval County, 61-68; PSYCHOLOGIST, CHILD GUID. CLIN. DUVAL COUNTY, 68- U.S.A, 51-52, Res, 53-, Capt. Psychol. Asn. Projective techniques; psychotherapy; psychoanalytic theory of symbolism. Publ: Sr. auth, If I were tickled by the rub of love, a psychoanalytic interpretation, In: Psychology, 68. Address: 6240 Brooks Circle S, Jacksonville, Fla. 32211.

BEGLEY, JOSEPH T(HOMAS), Psychol, see 10th ed, Soc. & Behav. Vols.

BEHAR, DR. ISAAC, b. New York, N.Y, Feb. 6, 32; m. 59. EXPERIMENTAL & PHYSIOLOGICAL PSYCHOLOGY. B.S, Brooklyn Col, 53; M.S, Tufts, 55; fel, Emory, 55-56, Ph.D.(psychol), 59. Trainee physiol. psychol, Vet. Admin. Hosp, Durham, N.C, 58-60; RES. PSYCHOLOGIST, U.S. ARMY MED. RES. LAB, 60- AAAS; Psychol. Asn; Psychonomic Soc. Primate behavior; discrimination learning and vision; psychophysics. Publ: Analysis of object-alternation learning in rhesus monkeys, J. Comp. Physiol. Psychol; A new tachistoscope for animals and man & co-auth, Some properties of the reaction-time ready-signal, Am. J. Psychol, 66. Address: Psychology Division, U.S. Army Medical Research Lab, Ft. Knox, Ky. 40121.

BEHAR, DR. LENORE BALSAM, b. McKeesport, Pa, Oct. 6, 38; m. 58; c. 2. PSYCHOLOGY. A.B, Duke, 59, Ph.D, 63. Consult, Wake County Ment. Health Clin, Raleigh, N.C, 62-63; staff psychologist, Robert B. Green Hosp, San Antonio, Tex, 64-65; ASST. PROF. PSYCHOL, NORTH CAROLINA, 65-Nat. Insts. Health res. fel. Psychol. Asn; Soc. Res. Child Develop; Orthopsychiat. Asn. Cognitive functioning; child development. Publ: Agreement on the concept of the ideal psychiatric nurse as a function of experience, J.

Clin. Psychol, 61; Influence of cognitive dissonance on emotional behavior, J. Personal & Soc. Psychol, 67; co-auth, Sexual arousal, defensiveness, and sex preference in affiliation, J. Exp. Res. Personality, 66. Address: Dept. of Psychiatry, University of North Carolina, Chapel Hill, N.C. 27514.

BEHARA, DR. M(INAKETAN), Math. Statist, see 11th ed, Phys. & Biol. Vols.

BEHLING, DR. BURTON N(EUBERT), b. Oshkosh, Wis, July 19, 06; m. 31; c. 3. ECONOMICS. B.A, Lawrence Col, 28; fel, Illinois, 28-31, M.A, 29, Ph.D.(econ), 31. Instr. econ, Illinois, 31-38; econ. analyst, Interstate Commerce Cmn, 39-41; dir. pub. aids invest, Bd. Invest. & Res, 41-44; econ. adv, Fed. Power Cmn, 44-48; econ. consult, Nat. Security Resources Bd, 49; sr. transportation specialist, legis. reference serv, Library Cong, 49-54; economist, ASN. AM. RAILROADS, 54-64, V.PRES, bur. rwy. econ, 64-67, ECON. & FINANCE DEPT, 67- Econ. Asn. Transportation; public utilities. Publ: Competition and monopoly in public utility industries; Public aids to domestic transportation; co-auth, A guide to railroad cost analysis, Asn. Am. Railroads, 64. Address: 5031 Glenbrook Rd. N.W, Washington, D.C. 20016.

BEHNKEN, DR. DONALD W(ASHINGTON), Exp. Statist, see 11th ed, Phys. & Biol. Vols.

BEHR, DR. MERLYN J, b. St. Louis, Mo, Sept. 16, 32; m. 59; c. 2. MATHEMATICS, EDUCATION. B.S, Iowa State, 58; Iowa, 59; M.A, Illinois, 61; Ph.D.(math. ed), Fla. State, 67. Teacher, high sch, Iowa, 58-60; instr. math, Northern Illinois, 61-64; math. ed, Fla. State, 66-67; ASST. PROF. MATH. & ED, MISSOURI, ST. LOUIS, 67- U.S.N. Math. Asn. Teacher education in elementary and secondary mathematics. Address: Dept. of Mathematics, University of Missouri at St. Louis, 8001 Natural Bridge Rd, St. Louis, Mo. 63130.

BEHRENS, ANNA JO WAGONER, b. Belleville, Ill, June 29, 07; m. 29; c. 2. ECONOMICS, FINANCE. B.S, Detroit, 28; A.M, Michigan, 37. Asst. econ, bur. bus. res, Detroit, 28-29; private consult, 29-42; economist & staff asst. to dir. off. tech. staff, U.S. Treas. Dept, 42-52; PRIVATE CONSULT, 54- Chief div. lab. econ. womens bur, U.S. Dept. Labor, 55-56; asst. staff dir, State Cmt. Higher Ed, N.Y, 60; lectr. San Diego State Col, 63-67. Consult, Pres. Cmn. Intergovt. Rels, 54; Ford Found. Fund Adv. Ed, 55; State Cmt. Constitutional Convention, N.Y, 61; Acad. Ed. Develop, 65-67. Econ. Asn; Finance Asn. Money and banking; public finance; higher education. Address: 8600 Lemon Ave, Apt. 9, La Mesa, Calif. 92041.

BEHRENS, PROF. HERMAN D(ANIEL), b. El Dorado, Kans, Aug. 6, 01; m. 26. PSYCHOLOGY. B.S, Kans. State Teachers Col, Emporia, 25; M.A, Ohio State, 29, Ph.D.(psychol), 32. Asst. psychol, Ohio State, 29-32, instr, 32-33; prof. ed, N.Dak. State Teachers Col, Minot, 33-35; instr, State Univ. N.Y. Teachers Col. Geneseo, 35-39, prof. & chmn. dept, 39-52, prof, Oneonta, 52-53, dir. ed. div, 53-61; PROF. ED, OHIO NORTHERN, 61- Fel. Psychol. Asn. Human growth and development; teacher education. Publ: Handbook for student teaching; Study of twins; Study in human development. Address: 811 S. Johnson St, Ada, Ohio 45810.

BEHRLE, DR. FREDERICK JOSEPH, b. Newark, N.J, Mar. 23, 26; m. 55; c. 2. CLINICAL & CHILD PSYCHOLOGY. B.A, Cornell, 49, M.A, 50; Ph.D, Mich. State, 59. Intern psychol, Devereux Found, Pa, 50-51; sch. psychologist, Newark Bd. Ed, N.J, 52-56; sr. clin. psychologist, St. Vincent's Hosp, New York, 59-64; DIR. SPEC. SERV, LIVINGSTON PUB. SCHS, 64- U.S.A, 44-46. Psychol. Asn. Frustration and its relation to aggressive fantasy and motor performance in children. Publ: Examiner bias on the Vinelund, Training Sch. Bull, 64: 108-115. Address: 520 Fairfield Ave, Ridgewood, N.J. 07450.

BEHRMAN, PROF. JACK N, b. Waco, Tex, Mar. 5, 22; m. 45; c. 3. ECONOMICS. B.S, Davidson Col, 43; fel. & M.S, North Carolina, 45; Southeast Club fel. & M.A, Princeton, 50, Ph.D.(econ), 52. Asst, Int. Labor Off, 45-46; asst. prof. econ. & bus, Davisdon Col, 46-48; instr, Princeton, 49-50, asst, 50-52; assoc. prof. econ. & polit. sci, Washington & Lee, 52-57; prof. econ. & bus. admin, Delaware, 57-61; asst. secy, Dept. Commerce, D.C, 61-64; PROF. INT. BUS, NORTH CAROLINA, CHAPEL HILL, 64- Prin. investr, Patent, Trademark & Copyright Found, George Washington, 56-, summers, vis. lectr, 53-54, consult, migration proj, 54. Consult, Am. Enterprise Asn, 56; Am. Mgt. Asn, 58-59; Pan Am. Union, 58-59; Cmt. Econ. Develop, 65- Mem, Regional Export Expansion Cmt, 65-; pres, Asn. Ed. Int. Bus, 67-68. Foreign aid and investment; international transfer of skills, economic development; multinational corporations. Address: Cornall Hall, University of North Carolina, Chapel Hill, N.C. 27514.

BEIDEMAN, DR. ELLIOT F(UGATE), b. Bridgeport, Ohio, July 6, 10; m. 53. ECONOMICS, BUSINESS ADMINISTRATION. A.B, George Washington, 37; M.B.A, Southern California, 58, D.B.A, 66. Economist, War Prod. Bd, 40-41; sr. res. analyst, State Calif, 47-52; head mkt. res, Hughes Aircraft Co, 52-55; MGR. MKT. RES, TRW SYSTEMS, 55- Instr, Inst. Aerospace Safety & Mgt, grad. sch, Southern California, 67, lectr, Grad. Sch. Bus. Admin, 67-68. U.S.N.R, 41-46, Comdr. Audio Eng. Soc; Mkt. Asn; Statist. Asn. Marketing research; business conditions analysis; economic forecasting; management of research and development. Publ: Liaison between marketing research and technical operations, Am. Mgt. Asn, 57; The Soviet space effort, Space Tech. Labs, Inc, 62; Systems analysis and public problems: the California experiment, Univ. Microfilms, 66. Address: TRW Systems, One Space Park, Redondo Beach, Calif. 90278.

BEIER, PROF. DELTON CLIFFORD, b. Chippewa Falls, Wis, Oct. 13, 15. CLINICAL PSYCHOLOGY. B.A, Wisconsin, 38, M.A, 39; Ph.D.(clin. psychol), La. State, 43. Asst, La. State, 41-43; instr, Purdue, 43-44; res. assoc, Nat. Defense Res. Cmt, Wisconsin, 43-45; asst. prof. psychol, INDIANA, 45-47, assoc. prof, 47-57, PROF. PSYCHOL. & DIR. GRAD. TRAINING PROG. CLIN. PSYCHOL, 57-, dir, psychol. clin, 45-57. Vis. Fulbright prof, Lucknow, 52-53; vis. prof, Gazi Inst, Turkey, 54-55. Hon. dir, Ankara Guid. & Res. Center, Turkey, 63- Summers, consult, Govt. Turkey for State Dept, 53; vis. lectr, Wisconsin & vis. prof, N.Y. Univ, 54. Consult, Vet. Admin, 53-; ment. health, Govt. Turkey, 54-55. J. McKeen Cattell award. Fel. AAAS; fel. Psychol. Asn; fel. Asn. Ment. Deficiency (v.pres, 57 & 59); World Fedn. Ment. Health. Psychopathology; psychotherapy; mental retardation. Publ: Conditioned cardiovascular responses and suggestions for the treatment of cardiac neuroses, J. Exp. Psychol, 3/40; Factors in the management of mental retardation, Int. Record Med, 3/59; Behavioral disturbances and mental retardation, In: Eds, Stevens & Heber, Mental retardation, Univ. Chicago, 64. Address: Psychological Clinic, Psychology Bldg, Indiana University, Bloomington, Ind. 47401.

BEIER, DR. EILEEN MARIE, b. New York, N.Y, Apr. 4, 24. EXPERIMENTAL PSYCHOLOGY. A.B, Temple, 45, fel, 47-48, M.A, 48; Carnegie fel, Bryn Mawr Col, 52-53; Ph.D.(exp. psychol), Yale, 58. Asst. exp. psychol, Temple, 45-47; demonstr, Bryn Mawr Col, 48-51; asst, Yale, 53-58; res. assoc, Columbus Psychiat. Inst. & Hosp, Ohio State, 58-67, asst. prof. psychiat, col. med, 59-67, PSYCHOL, grad. sch, 60-67; RES. ASSOC. PROF, IOWA, 67- Psychol. Asn; Psychonomic Soc. Learning theory; experimental design; statistical analysis. Publ: Co-auth, Effects of glutamic acid on the behavior of the white rat, J. Comp. & Physiol. Psychol; Effect of varied reinforcement upon speed of locomotion & Extinction following partial and varied reinforcement, J.Exp. Psychol. Address: Dept. of Psychology, University of Iowa, Iowa City, Iowa 52240.

BEIER, PROF. ERNST G(UNTER), b. Breslau, Germany, June 26, 16; nat; m. 49; c. 2. PSYCHOLOGY. B.A, Amherst Col, 40; M.A, Columbia, 47, Ph.D, 49. Dir. ment. hyg. clin, Syracuse, 48-53; PROF. PSYCHOL. & DIR. CLIN. TRAINING, UTAH, 53- Prin. investr, training & res. grants, 61- Consult, Vet. Admin, 53-; Calif. State Hosp. Syst, 64. Pres. bd. dirs, Family Serv. Soc. Dipl, clin. psychol, Am. Bd. Exam. Prfnl. Psychol; clin. hypnosis, Am. Bd. Exam. Psychol. Hypnosis. U.S.A, 43-45. Fel. Am. Psychol. Asn; Inter-Am. Soc. Psychol. Psychotherapeutic process; non-verbal properties of speech; communication processes. Publ: The silent language of psychotherapy, Aldine, 66; Effect of anxiety on flexibility of intellectual functioning, Psychol. Monogr; Polygraphic arousal patterns related to attention and learning in groups, Final Report U.S. Off. Ed, 62. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

BEIGEL, DR. HUGO GEORGE, b. Vienna, Austria, Feb. 17, 97; nat; m. 31; c. 1. PSYCHOLOGY. Ph.D.(psychol), Vienna, 24. Organizer & head, Adv. Center in Family & Marital Rels, Berlin, 29-35; personnel dept, Joint Stock Co. for Anlagewerte, 35-37; therapist & instr, ment. hyg. sch, Grove Sch, Conn, 44-45; instr. psychol, Keystone Col, 46-47; from asst. prof. to assoc. prof, Long Island, 47-62; ED-IN-CHIEF, J. SEX RES, 62- Marital & personal rel. counsr, 62- Psychol. Asn; Sociol. Asn; Soc. Sci. Study Sex. Social psychology; marital and family relations; aesthetics. Publ: Encyclopedia of sex education; Sex from A to Z; Advances in sex research, Harper, 64. Address: 138 E. 94th St, New York, N.Y. 10028.

BEIGHLEY, PROF. KENNETH E(LDRED), b. Gotham, Wis, July 16, 30; m. 52; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Wis. State, La Crosse, 56; M.S, Wisconsin, 58; fel, Mich. State, 62-63, Ph.D.(sch. curriculum), 63. Instr. ed, Western Michigan, 58-61; asst, Mich. State, 61-62; asst. prof, Knox Col. (Ill), 63-64; assoc. prof. psychol, WIS. STATE, PLATTEVILLE, 64-66, PROF, 66-67, ED. PSYCHOL, 67- Summers, trainee sci. teacher prog, Upjohn Pharmaceut. Co, 59, assoc. prof, Illinois State, 64. U.S.A, 51-54, Sgt. Asn. Supv. & Curriculum Develop. Mental and emotional health in the schools; self-concept related to learning and behavior; evaluation of instruction by the learners. Publ: Co-auth, Criticism and the learning process, Edison Inst, 63. Address: Dept. of Educational Psychology, Wisconsin State University, Platteville, Wis. 53818.

BEIGHTLER, DR. CHARLES SPRAGUE, Indust. Eng, Opers. Res, see 11th ed, Phys. & Biol. Vols.

BEIK, PROF. PAUL H(AROLD), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BEILER, PROF. ROSS C, b. Baldwin, Kans, May 18, 16; m. 39; c. 3. GOVERNMENT. A.B, Allegheny Col, 37; A.M, Iowa, 40, Ph.D.(polit. sci), 50. Instr. polit. sci. & hist, Ill. Wesleyan, 41-42, asst. prof, 42-43; instr. polit. sci, Vermont, 43-44; polit. sci. & hist, Lawrence Col, 44-45; asst. prof. GOVT, MIAMI (FLA), 45-51, assoc. prof, 51-57, PROF, 57- Res. dir, metro govt. & news, grad. sch. journalism, Columbia, 61-62. Polit. Sci. Asn. Public opinion; political dynamics and processes. Publ: Suggestions for research on social effects of radio and TV, In: Education on the air; The use of local facilities in political science research, In: The polls and public opinion. Address: Dept. of Government, Box 8047, University of Miami, Coral Gables, Fla. 33124.

BEILIN, DR. HARRY, b. New York, N.Y, June 4, 21. PSYCHOLOGY. B.A, Brooklyn Col, 46; M.A, Columbia, 49, Ph.D.(psychol), 52. Asst. guid, Teachers Col, Columbia, 51-52; instr. ed, Connecticut, 52-53; res. assoc. psychol, inst. child welfare, Minnesota, 53-56; PROF. PSYCHOL. & ED, GRAD. CENTER, CITY UNIV. NEW YORK, 56- Instr, Orange County Community Col, 51-52. Res. consult, Inst. Develop. Studies, 60-64; bur. res, U.S. Off. Ed, 66-67. U.S.N, 43-46. AAAS; Psychol. Asn; Soc. Res. Child Develop. Developmental psychology; cognition; problem solving. Address: Dept. of Psychology, Graduate Center, City University of New York, 33 W. 42nd St, New York, N.Y. 10036.

BEINHAUER, DR. MYRTLE T, b. Dows, Iowa, Nov. 4, 09. SOCIAL SCIENCE. A.B, Drake, 30, Downing scholar. & A.M, 32; Colorado, 41; Iowa, 47; Ph.D, Minnesota, 55. Instr. soc. studies, Albia Jr. Col, 36-46; asst. prof. soc. sci, Drake, 46-56; ASSOC. PROF. ECON, WESTERN MICHIGAN, 57- Bus. & Prfnl. Woman's Clubs Forrest fel, 54; dir, Nat. Defense Ed. Act Summer Inst. Econ. Ed, 67. Consult, Mich. Cmn. Status Women, 62-64, mem, 67- State labor laws pertaining to women and their effect on employment opportunities. Publ: Early farm organization of Iowa & The grange in Iowa, Ann. of Iowa. Address: Dept. of Economics, Western Michigan University, Kalamazoo, Mich. 49001.

BEISER, DR. MORTON, b. Regina, Sask, Nov. 16, 36; m. 61; c. 2. SOCIAL PSYCHIATRY. M.D, British Columbia, 60. Intern med, Montreal Gen. Hosp, 60-61; res. psychiat, med. center, Duke, 61-63, chief res, 63-64, res. assoc, 64; SOC. PSYCHIAT, med. center, Cornell, 65-66; lectr, SCH. PUB. HEALTH, HARVARD, 66-67, ASST. PROF, 67- Med. dir, N.Country Community Serv, Coos County, N.H, 66-67; consult, Boston State Hosp, 67- Psychiat. Asn; Pub. Health Asn. Epidemiology of psychiatric disorder; cross-cultural psychiatric studies. Publ: Poverty, social disintegration and personality, J. Soc. Issues, 1/65; General versus specific procedures in the primary prevention of mental illness, Ont. Ment. Health Found, 67. Address: Dept. of Behavioral Sciences, Harvard University School of Public Health, 55 Shattuck St, Boston, Mass. 02115.

BEISHLAG, PROF. GEORGE, b. Syracuse, N.Y, Mar. 4, 07; m. 36. GEOGRAPHY. A.B, Wayne, 30; M.A, Clark, 37; Ph.D, Maryland, 53. Intel. specialist, U.S. Govt, 42-49; res. geogr, Puerto Rico Govt, 51; PROF. GEOG, TOWSON STATE COL, 54- Lectr, Postgrad. Naval Intel. Sch, Anacostia, D.C, 46; American Univ, 49-53; vis. prof, Manitoba, summer, 64. Consult, Libm. of Secretariat, UN, 46; Baltimore County Off. Planning, 58. Civilian with Off. Strategic Servs, 42-45. Asn. Am. Geog; Coun. Geog. Ed. Map interpretation and cataloging; historical geography; writing of public school and college text books. Publ: Geography of Maryland; Maryland article in Book of Knowledge & World Book Encyclop, 67. Address: Towson State College, Baltimore, Md. 21204.

BEISHLINE, PROF. J(OHN) R(OBERT), b. Philadelphia, Pa, Nov. 20, 05; m. 31; c. 2. BUSINESS MANAGEMENT. B.S, U.S. Mil. Acad, 31; M.A, Columbia, 41; Ph.D.(mgt), Ohio State, 49. U.S. Army, 31-55, mem. soc. sci. faculty, U.S. Mil. Acad, 38-42, sr. faculty mem. admin, Command & Gen. Staff Col, 46-47, prof. lectr, George Washington, 49-52, spec. asst. & mil. adv. to Supreme Comdr, NATO, France, 52-53, asst. div. comdr, third armored div, Ft. Knox, Ky, 53-54, commanding gen, Ft. Riley, Kans, 54-55; PROF. MGT, Texas, 55-57; WASH. SQ. COL, N.Y. UNIV, 57-, chmn. dept, 57-65. Bus. & indust. consult; consult, U.S. Air Force, 49-; U.S. Army, 55- Econ. Asn; Soc. Adv. Mgt. Military management; economics; labor; psychology; international relations. Publ: Military management for national defense. Address: Dept. of Management, Washington Square College, New York University, Washington Square, New York, N.Y. 10003.

BEISSER, DR. ARNOLD R, b. Santa Ana, Calif, Oct. 5, 25; m. 53. PSYCHIATRY. A.B, Stanford, 48, M.D, 50. Intern, Charity Hosp, New Orleans, La, 50; staff psychiatrist, Pasadena Guid. Clin, Calif, 56; chief psychiatrist outpatient dept, Metrop. State Hosp, Norwalk, Calif, 56-57, coordinator res. training, 57-58, chief prfnl. training, 58-65; DIR, CENTER TRAINING COMMUNITY PSYCHIAT, STATE CALIF. DEPT. MENT. HYG, 65- Clin. asst. sch. med, California, Los Angeles, 56, clin. instr, 58-62, lectr, sch. pub. health, 67-; clin. prof, Univ. Calif-Calif. Col. Med, 62- Consult, Superior Courts, Los Angeles County, 58-64; student health serv. & dept. athletics, Calif. State Col. Los Angeles, 63-67; Metrop. State Hosp, Norwalk, 65-; Los Angeles County Ment. Health Dept, 66-; family agent proj, Family Serv. Asn, Santa Monica, 67- Dipl, Am. Bd. Psychiat. & Neurol, 58. U.S.N.R, 44-46, Ens. AAAS; fel. Psychiat. Asn; Am. Med. Asn. Schizophrenia; social significance of sports and leisure; social psychiatry; community mental health. Publ: The madness in sports: psychosocial observations on sports, Appleton, 67; Preparation for training for community psychiatry, State Calif. Dept. Ment. Hyg, 67; co-auth, Psychosocial adjustment of children of schizophrenic mothers, J. Nervous & Ment. Disease, 68. Address: Center for Training in Community Psychiatry, 11665 W. Olympic Blvd, Los Angeles, Calif. 90064.

BEITTEL, DR. A(DAM) D(ANIEL), b. Lancaster, Pa, Dec. 19, 98; m. 25; c. 2. SOCIOLOGY. A.B, Findlay Col, 22, LL.D, 65; A.M, Oberlin Col, 23; B.D, Chicago, 25, Ph.D, 29; LL.D, Beloit Col, 64. Prof. relig, Earlham Col, 29-32; sociol, Guilford Col, 36-45, dean, 37-45; pres, Talladega Col, 45-52; dean chapel, Beloit Col, 53-60; pres, Tougaloo Col, 60-64; DIR. MISS. PROG, AM. FRIENDS SERV. CMT, 64- Address: 1666 Lelia Dr, Jackson, Miss. 39216.

BEITZELL, DR. ROBERT E, Diplomatic & Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BEKER, DR. JEROME, b. Philadelphia, Pa, Feb. 28, 33. PSYCHOLOGY, SOCIOLOGY. A.B, Swarthmore Col, 55; A.M, Columbia, 56, Ed.D, 59. Res. psychologist, Berkshire Farm for Boys, 60-63; SR. RES. ASSOC, YOUTH DEVELOP. CENTER, SYRACUSE UNIV, 63- Nat. Inst. Ment. Health res. fel, 60-62. Consult, sch. & ment. health prog, Bank St. Col. Ed, 60-61; guid. dept, teachers.col, Columbia, 61-; Wiltwyck Sch. for Boys, 64; Potomac Inst, D.C, 65- Ed. Res. Asn; Soc. Res. Child Develop; Soc. Psychol. Study Social Issues; Psychol. Asn. Self concepts and social and emotional development of children; emotional disturbance in childhood; juvenile delinquency; social psychological research in education; residential treatment. Publ: Training camp counselors in human relations: a case book; Male adolescent inmate's perceptions of "helping persons," Soc. Work, 65; Influence of school camping on the self-concepts and social relationships of sixth grade school children, J. Ed. Psychol. Address: 1312 Penn Center House, 1900 John F. Kennedy Blvd, Philadelphia, Pa. 19103.

BEKKER, DR. KONRAD, b. Berlin, Germany, May 24, 11; nat; m. 44. ECONOMICS. J.D, Basel, Switz, 35, Ph.D, 36; fel, Brookings Instn, 38-39; Yale, 43-44. Asst. econ, Columbia, 36-38; instr, Kentucky, 39-43; economist, U.S. DEPT. STATE, 45-59, first secy, AM. EMBASSY, Rangoon, 59-61, counsr. econ. affairs, Bern, 61-64, FIRST SECY, BANGKOK, 64- U.S.A, 43-46. Econ. Asn; Asn. Asian Studies. Economics of underdeveloped areas. Publ: Land reform legislation in India, Mid. E. J; Historical patterns of culture contact in southern Asia, Far E. Quart; Point IV program of the United States, In: Progress of underdeveloped areas. Address: American Embassy, APO San Francisco 96346.

BELANGER, PROF. DAVID, b. St-Fabien, Que, June 4, 21; U.S. citizen; m. 49; c. 4. PSYCHOLOGY. B.A, Laval, 44; M.A, Montreal, 47, lic, 50, Ph.D, 59. Asst. prof. EXP. PSYCHOL, MONTREAL, 50-52, assoc. prof, 52-60, PROF, 60-, CHMN. INST. PSYCHOL, 63- U.S.A, 44-46, Sgt. Am. Psychol. Asn; fel. Can. Psychol. Asn.(pres, 66-67). Experimental and physiological psychology; muscular potential; motivation and emotion; learning; perception; animal psychology. Address: Institute of Psychology, University of Montreal, 2900 Blvd. du Mont-Royal, Montreal 3, Que, Can.

BELANGER, DR. LAURENCE L(YTTLETON), b. Bartle, Calif, Mar. 4, 15; m. 41; c. 2. COUNSELING PSYCHOLOGY. A.B, Col. of Pacific, 36, M.A, 46; Ed.D, Stanford, 50. Teacher, high schs, Calif, 37-41, prin, 41-42, 44-47; attendance officer, Napa City Schs, 43-44; dir. guid, Coalinga High Sch, 47-48; Orange County Schs, 49-53; asst, Stanford, 48-49; guid. consult, CALIF. STATE DEPT. ED, 53-65, CONSULT. PROG. PLANNING, 65- Summer vis. prof, Mont. State Col, 50-51, Ore. State Col, 52, Nevada, 53, Stanford, 61, San Jose State Col, 62, Sacramento State Col, 63-65. U.S.A, 42-43. Administration of pupil personnel services; occupational information; systems approach to educational planning; administration of federal aid to education programs. Publ: Occupational exploration kit; Career guidance for girls. Address: California State Dept. of Education, 721 Capitol Mall, Sacramento, Calif. 95814.

BELANGER, PROF. MARCEL, b. Montreal, Que, June 2, 20; m. 48; c. 1. ECONOMICS. B.A, Laval, 40, M.Com, 43; M.A, Harvard, 48; hon. Ph.D. (admin), Sherbrooke, 67. PROF. ECON, LAVAL, 46- Chartered acct, Belanger, Dallaire, Gagnon & Assocs, 46- Econ. consult, 50- Mem, Royal Cmn. on Coasting Trade, Govt. Can, 55-58; Study Cmt. Pub. Assistance, Govt. Que, 61-63; chmn, Royal Cmn. on Taxation, Govt. Que, 63-66. Am. Econ. Asn; Can. Inst. Chartered Acct. Taxation. Publ: Co-auth, Income tax problems & Income tax law in Canada, Commerce. Address: 376 E. du Roi, Quebec City, Que, Can.

BELASCO, DR. JAMES A, b. New York, N.Y, Feb. 9, 36; m. 58; c. 3. ORGANIZATIONAL BEHAVIOR. B.S, Cornell, 57, Ph.D.(orgn. behav), 67; M.B.A, Hofstra, 62. Personnel mgr, Gen. Tel. & Electronics Corp, 57-61, prod. mgr, 61-63; res. specialist occup. & ment. health, Cornell, 64-67; ASSOC. PROF. ORGN. BEHAV, STATE UNIV. N.Y. BUFFALO, 67- Consult, 61- Arbit. Asn; Indust. Rels. Res. Asn; Mkt. Asn; Sociol. Asn. Analysis of antecendents, current structure, functioning and consequences of change in educational, medical and business organizations for individual system members, organizational structure and various client publics. Publ: The assessment of change: a look into Pandora's box, McGraw, spring 68; The American Association of University Professors: a private dispute settlement agency, ILR Rev, 7/65; co-auth, Emotional illness and employer responsibility, Bull, N.Y. State Sch. Indust. & Labor Rels, 5/66. Address: School of Business Administration, State University of New York at Buffalo, Buffalo, N.Y. 14214.

BELCASTRO, DR. FRANK PATRICK, b. Pittsburgh, Pa, Oct. 16, 28. EDUCATION, PSYCHOLOGY. A.B, Pittsburgh, 50, M.Ed, 51, Ph.D.(sec. ed), 61. Teacher, high sch, Pa, 53-65; asst. prof. ED. & PSYCHOL, MERRIMACK COL, 65-67, ASSOC. PROF. & ACTING CHMN. DEPT, 67- Participant, Nat. Sci. Found. Summer Inst. Math, Rutgers, 59 & Nat. Defense Ed. Act Summer Inst. Spanish, Kalamazoo Col, 64. Nat. Soc. Study Ed; Nat. Coun. Teachers Math. Educational psychology and child development; methods of teaching; programmed instruction; foundations of education. Publ: Co-auth, Comparison of four techniques of programming algebra, Sci. Ed, 10/63; auth, Programmed learning and intelligence, Sch. Sci. & Math, 1/66; Relative effectiveness of the inductive and deductive methods of programming algebra, J. Exp. Ed, spring 66. Address: Dept. of Psychology & Education, Merrimack College, North Andover, Mass. 01845.

BELCHER, DEAN ALGERNON S(HEFTALL), b. Savannah, Ga, Aug. 18, 15; m. 55. ECONOMICS. A.B, Savannah State Col, 37; M.A, Catholic Univ, 49, Ph.D.(econ), 54. Analyst indust. rels, Wage Stabilization Bd, 51-53; PROF. ECON, S.C. STATE COL, 53-, DEAN FACULTY, 59-, chmn. dept. soc. sci, 55-59, asst. dean sch. arts & sci, 58-59. U.S.A, 41-46, Capt. Econ. Asn; Acad. Polit. & Soc. Sci. Labor relations and economics. Publ: A study of the factors determining the exercise of jurisdiction by the National Labor Relations Board in three selected industries. Address: Dept. of Economy, South Carolina State College, Orangeburg, S.C. 29115.

BELCHER, PROF. D(AVID) W(ILLIAM), b. Thief River Falls, Minn, Sept. 22, 16; m. 49; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. B.B.A, Minnesota, 39, M.A, 48, Ph.D.(econ), 51. Dist. credit mgr, Firestone Tire & Rubber Co, 39-43; gen. mgr, H.A. Goglin Co, 43-44, 46; instr. econ, Minnesota, 46-49; asst. prof. mgt, Illinois, 49-50; commerce, Wisconsin, 50-52, assoc. prof, 52-55, PROF, 55-56; MGT, Arizona, 56-57; SAN DIEGO STATE COL, 57- U.S.N, 44-45. Econ. Asn; Indust. Rels. Res. Asn; Mgt. Asn; Acad. Mgt. Publ: Wage and salary administration, 2nd ed; Employee and executive compensation, In: Employment relations research; Toward a behavioral science theory of wages, J. Acad. Mgt, 8/62. Address: 1828 Diamond St, San Diego, Calif. 92109.

BELCHER, DR. DONALD R(AY), b. Albion, Mich, Nov. 4, 87. ECONOMICS, STATISTICS. A.B, Kalamazoo Col, 09, LL.D, 44; A.M, Columbia, 15; Paris, 19. Prof. math, Hanover Col, 10-14; instr, Columbia, 14-18; statistician, Am. Tel. & Tel. Co, 19-27, asst. chief statistician, 27-43, asst. comptroller, 43-44, treas, 44-52; asst. dir, U.S. Bur. Budget, 53-55; regents' prof. bus. admin, California, 55-57; CONSULT, 57- Secy-treas, Bus. Res. Coun, Inc, 32-39. Exec. secy, Cmt. Statist. Reporting & Uniform Acct. Indust, 33-34; dir, Nat. Bur. Econ. Res; asst. chief off. procurement & materials, U.S. Navy Dept, 42-43. Consult. bd. trustees, Pennsylvania, 57-59; Case Inst. Tech, 61; Winterthur Corp, 61-62; Lake Erie Col, 64; Cornell, 64-65; Cleveland Mus. Nat. Hist, 67. Distinguished civilian serv. medal, U.S. Secy. Navy, 44; Presidential cert. merit, 47. Fel. AAAS; fel. Statist. Asn. (v.pres, 37); Econ. Asn; Math. Soc; Acad. Polit. Sci. Straight line depreciation accounting practice; industrial pension plans. Publ: The board of trustees of the University of Pennsylvania. Address: 550 Prospect St, Westfield, N.J. 07090.

BELCHER, PROF. JOHN C(HESLOW), b. Tulsa, Okla, Feb. 26, 20; m. 48; c. 5. SOCIOLOGY. B.S, Okla. State, 43; A.M, La. State, 45; Ph.D, Wisconsin, 50. Asst, La. State, 43-45; labor mkt. analyst, U.S. Employ. Serv, La, 45-46; asst, Wisconsin, 46-47; asst. prof, Mississippi, 47-49; assoc. prof. SOCIOL, Okla. State, 49-55; GEORGIA, 55-64, PROF, 64- Agr. Develop. Coun. res. grants, 66- Fel. Sociol. Asn; Rural Sociol. Soc; Pop. Asn; Pub. Health Asn.

Population; rural social change; health and levels of living. Publ: Evaluation and restandardization of Sewell's socio-economic scale; Background norms of patients and the therapeutic community, J. Health & Human Behav, 65; The one-person household: a consequence of the isolated nuclear family, J. Marriage & Family, 67. Address: Dept. of Sociology, University of Georgia, Athens, Ga. 30601.

BELDEN, ALLEN, b. Columbia, Mo, Aug. 27, 02; m. 34; c. 2. GEOGRAPHY. B.A. & M.A, Missouri, 32; fel, Chicago, 33-34. Asst. geog, Oklahoma, 34-37, instr, 37-41, asst. prof, 41-43; assoc. geogr, off. geog, U.S. Dept. Interior, 43, regional geogr, 43-46, chief regional sect, 46-48, chief res. br, 48-68; ACTING CHIEF, GEOG. NAMES DIV, ARMY MAP SERV, C.ENG, DEPT. ARMY, 68- Asn. Am. Geog; fel. Geog. Soc. Geographic nomenclature and terminology; statistical delimitation of land use regions. Address: 7055 Wyndale St. N.W, Washington, D.C. 20015.

BELDEN, DR. ERNEST, b. Vienna, Austria, Oct. 16, 19; nat; m. 42; c. 3. PSYCHOLOGY. A.B, California, Berkeley, 48, M.A, 53, Ph.D.(ed), 65. CLIN. PSYCHOLOGIST, U.S. Army Hosp, Ft. Ord, 50-53; NAPA STATE HOSP, IMOLA, 53- Instr, exten, California, 67- Med.Serv.C.Res, 42-46, 1st Lt. Psychol. Asn. Education; quantification of dream imagery; psychotherapy; history of child study in the United States; alcoholism and investigation of lysergic acid diethylamide-25 as a therapeutic agent. Publ: Suggestions of research in alcoholism, Quart. J. Alcoholism; A program for the treatment of alcoholics in a mental hospital, Quart. J. Studies Alcohol, 12/62; co-auth, Identification and treatment of an early deprivation syndrome in alcoholics by means of LSD-25, Am. J. Psychiat, 4/63. Address: 2049 Waverly St, Napa, Calif. 94558.

BELDEN, DR. THOMAS GRAHAM, b. Peoria, Ill, June 15, 19; m. 51; c. 3. OPERATIONS ANALYSIS, HISTORY. B.S, George Washington, 47, M.A, 48; Ph.D.(hist), Chicago, 52. Sci. historian, hq, Air Res. & Develop. Command, 52-53, OPERS. ANALYST, 53-56; Stanford Res. Inst, 56-61; INST. DEFENSE ANAL, 61- Mem. cmt. civil defense, Nat. Acad. Sci, 67-; consult, off. emergency plans, Exec. Off. President, 67- Sig.C, U.S.A, 43-46, 1st Lt. Crisis analysis, command and control, communications, remote conferencing, and their relation to human language problems as illustrated in historical case studies. Publ: Co-auth, So fell the angels, 56 & The lengthening shadow, 62, Little; auth, The language of command, Inst. Defense Anal, 62. Address: 7224 Selkirk Dr, Bethesda, Md. 20034.

BELDING, DR. R(OBERT) E(DWARD), b. Claremont, N.H, July 29, 11; m. 46; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Hiram Col, 39; M.Ed, Boston, 48; Ph.D.(ed, guid), Western Reserve, 53. Asst. prof. psychol. & ed, Muskingum Col, 48-49; head dept. psychol, Cedar Crest Col, 50-53; PROF. ED, IOWA, 53- U.S.A, 40-45. Comp. Ed. Soc. Educational philosophy; comparative education; history of education. Publ: Students speak around the world; Student reports from the past; European classrooms: schools of four nations. Address: College of Education, University of Iowa, Iowa City, Iowa 52240.

BELENKY, DR. ROBERT L(OUIS), b. New York, N.Y, Aug. 13, 31; m. 57; c. 2. CLINICAL PSYCHOLOGY. B.A, Cornell, 53; Ph.D, Columbia, 59. Counsr. ed, N.J. Cmn. Blind, 55-56; intern psychol, Ill. Neuropsychiat. Inst, 56-57; psychologist, Passaic County Clin. Ment. Health, N.J, 58-59; fel, Judge Baker Guid. Center, 59-60; psychologist, Newton Pub. Schs, 60-62; res. assoc. ed, grad. sch. ed, Harvard, 62-63, lectr. guid, 63-67; ASSOC. PROF. ED. & PSYCHOL, BOSTON COL, 66- Consult, dept. soc. rels, Harvard, 61-62. Psychol. Asn; Orthopsychiat. Asn. Cognition in persons with sensory deficits; interpersonal perception; rational psychotherapy models. Publ: Swimming program for blind children. Address: 51 Highland St, West Newton, Mass. 02165.

BELING, PROF. WILLARD A(DOLPH), b. Great Bend, N.Dak, Mar. 16, 19; m. 47; c. 2. INTERNATIONAL RELATIONS, POLITICAL SCIENCE. B.A, California, Los Angeles, 43; M.A. & Ph.D.(Mid. East studies), Princeton, 47; Basel, 48, 51-52; American Univ. Beirut, 55-56. Am. Coun. Learned Socs. fel, 47-48; Soc. Sci. Res. Coun. fel, 48-49; dir. socio-econ. res, Arabian Am. Oil Co, 49-58; fel. Mid. East insts, Harvard, 58-60; PROF. INT. RELS, SOUTHERN CALIFORNIA, 60- Res. grants, Soc. Sci. Res. Coun, 58, 63-64 & Am. Anthrop. Asn, 67- Consult. assoc, Int. Inst. Soc. Studies, Geneva, 66. Ed, Maghreb Digest, 63- Polit. Sci. Asn; Mid. East Inst. Socio-economic research in the Middle East; international politics and labor; political institutions in developing countries. Publ: Pan-Arabism and labor, Harvard, 60; Modernization and African labor, 65 & The role of labor in African nation-building, 68, Praeger. Address: School of Politics & International Relations, University of Southern California, University Park, Los Angeles, Calif. 90007.

BELITSKY, DR. A(BRAHAM) HARVEY, b. Brockton, Mass, Aug. 27, 29. ECONOMICS. B.A, Wisconsin, 52; M.A, Syracuse, 53; Ph.D.(labor econ), Harvard, 60. Asst. prof. econ, Rutgers, 59-62; Lawrence Col, 62-64; RES. ECONOMIST, W.E. UPJOHN INST. EMPLOY. RES, 64- Labor economist, bur. apprenticeship & training, U.S. Dept. Labor, 61. U.S.N, 53-57, Lt. Econ. Asn; Indust. Rels. Res. Asn. Long-term changes in employment; private vocational training schools. Publ: St. Lawrence Seaway Project; Apprenticeship and training in carpentry construction; co-auth, The job hunt, Johns Hopkins, 66. Address: W.E. Upjohn Institute for Employment Research, 1101 17th St. N.W, Washington, D.C. 20036.

BELKNAP, PROF. IVAN C(ARL), b. Chehalis, Wash, Sept. 26, 15; m. 41; c. 2. SOCIOLOGY. A.B, Texas, 40, fel, 41-42, A.M, 44, Ph.D, 50; Chicago, 47. Instr. SOCIOL, TEXAS, 40-41, 46-49, asst. prof, 50-53, assoc. prof, 53-61, PROF, 61-, CHMN. DEPT, 66- Consult, Hogg Found; Russell Sage Found; Tex. State Hosp. Bd; Tex. Res. League; Humble Oil & Ref. Co; Univ. Texas Med. Sch. U.S.A, 42-46, Capt. Sociol. Asn. Industrial, business and governmental administrative organization; sociology of mental disorders of later maturity; use of professional services in health programs; planning and use of hospital facilities. Publ: Co-auth, Human problems of a state mental hospital; The community and its hospitals, Syracuse Univ, 63; Age and sex categories as variables in the mental disorders of later maturity, Am. Sociol. Rev. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

BELKNAP, DR. LOREN C, b. Prairie City, Ore, Jan. 8, 19; m. 56; c. 2. SOCIOLOGY. B.A, Col. Idaho, 40; M.A, Chicago, 42; Ph.D.(sociol), State Univ. N.Y. Buffalo, 68. Instr. sociol, Washington State, 48-51; state child welfare consult, Nev. State Welfare Dept, 51-53, chief soc. serv, 53-55; asst. prof. soc. work, Indiana, 55-57; sch. soc. work, Mich. State, 57-60; asst. prof. & asst. to dean, sch. soc. work, State Univ. N.Y. Buffalo, 60-61, lectr. sociol, 61-66; assoc. prof, Whitman Col, 66-67; ASSOC. PROF. SOCIOL. & COORDINATOR SOC. WELFARE, NEVADA, 67- Sociol. Asn; Asn. Social Workers. Systematic theory construction in social problems; sociocultural foundations of social welfare; developing the application of symbolic logic to sociological data. Publ: Co-auth, Parents' responsibility in character development, Palmer Found, 50; auth, Biennial report of the Nevada State Welfare Department, State Printer, 55; An evaluation & criticism of the aid to dependent children's program, J. Pub. Law, spring 57. Address: Dept. of Sociology, University of Nevada, Reno, Nev. 89507.

BELL, DR. A. DONALD, b. Vancouver, Wash, July 17, 20; m. 44; c. 1. PSYCHOLOGY, PSYCHOLOGY OF RELIGION. B.A, William Jewell Col, 42; M.R.E, Southwest. Baptist Theol. Sem, 45, D.R.E, 49; London, 50-51. Prof. relg. ed. & psychol. & Baptist Found. Chair, Southern Illinois, 45-47; prof. psychol. & asst. pres, Miss. Col, 47-51; prof. psychol, Southwest. Baptist Sem, 52-60, dir. grad. studies, 53-60; exec. v.pres. admin, Howard Payne Col, 60-63; SR. PROF. PSYCHOL, SOUTHWEST. BAPTIST SEM, 63- Miss. Col. res. grant, Menninger Clin, 47-48; resident, Miss. State Hosp, 52; consult. & lectr, Hogg Found. Ment. Health, Univ. Tex, 53-57; vis. prof, Philippine Baptist Sem, 67-68; vis. lectr, Texas, Texas Christian, Baylor, Golden Gate Baptist Theol. Sem, Hong Kong Baptist Col. & Taiwan Baptist Theol. Sch. Mem. nat. res. cmt, Int. Coun. Religious Ed, 49-52; mem, State Ment. Health Bd, Miss, 50-51 & Tex, 55-57. Cultural, ethnic, religious and applied psychology; family living; human relations; acculturation of the southwestern Indian of the United States as compared with the Filipino; research in dialogue. Publ: How to get along with people in the church, 60 & The family in dialogue, 68, Zondervan; In Christian love, Convention Press, 68. Address: Dept. of Psychology, Southwest Baptist Theological Seminary, Box 2200, Ft. Worth, Tex. 76122.

BELL, AARON, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BELL, PROF. A(LBERT) L(AVERN), b. Hop Bottom, Pa, June 15, 14. ECONOMICS. B.S, Franklin & Marshall Col, 35; A.M, Pa. State Col, 40; Ph.D, Pennsylvania, 51. Prof. bus. admin, Hershey Jr. Col, 42-46; asst. prof. econ, FRANKLIN & MARSHALL COL, 46-55, PROF. ECON. & BUS. ADMIN, 55- Econ. Asn; Am. Acct. Asn; Nat. Asn. Acct. Economic and accounting theory; fixed asset accounting and its effect upon profits during price changes. Publ: Fixed assets and current costs, Acct. Rev. Address: Dept. of Economics & Business Administration, Franklin & Marshall College, Lancaster, Pa. 17604.

BELL, BERNARD RAYMOND, b. Philadelphia, Pa, Jan. 9, 12; m. 38; c. 2. ECONOMICS. B.A, Pennsylvania, 31; cert, Paris, 32. Asst, inst. human rels, Yale, 35; economist, bur. agr. econ. & soil conserv. serv, U.S. Dept. Agr, 35-42; chief econ. anal. unit, Off. Inter-Am. Affairs, 42-44; economist, strategic bombing surv, Off. Secy. War, 45; econ. adv. Latin Am, Export-Import Bank Wash, 46-49, chief economist & asst. to chmn. bd. dirs, 49-53; dir. econ. adv. staff, Off. Prime Minister, Govt. Israel, 53-55; partner, Gass, Bell & Assocs, 55-59; V.PRES, SURV. & RES. CORP, 59- Consult, Govt. Israel, 53-59; Ministry Finance, 53-59; nat. planning coun, Govt. Indonesia, 60-; Int. Bank Reconstruct. & Develop, 62- Econ. Asn; Soc. Int. Develop. Economic development. Publ: Israel economy in 1954; Comparative fabric production costs in the United States and four other countries. Address: Surveys & Research Corp, 1030 15th St. N.W, Washington, D.C. 20005.

BELL, PROF. CAROLYN SHAW, b. Framingham, Mass, June 21, 20; m. 53; c. 2. ECONOMICS. A.B, Mt. Holyoke Col, 41; Ph.D, London, 49. Economist, Off. Price Admin, 41-45; from instr. to assoc. prof. ECON, WELLESLEY COL, 50-62, PROF, 62- Economist, cmt. res. soc. sci, Harvard, 50-53; Am. Asn. Univ. Women Farr fel, 60-61. Econ. Asn. Consumption economics. Publ: Consumer choice in the American economy, Random, 67. Address: Clay Brook Rd, Dover, Mass. 02030.

BELL, PROF. CHARLES BERNARD, JR, b. New Orleans, La, Aug. 20, 28; m. 53; c. 4. MATHEMATICS, STATISTICS. B.S, Xavier (La), 47; M.S, Notre Dame, 48, fel, 49-51, Ph.D, 53. Asst. math, Notre Dame, 49-51; res. engr, Douglas Aircraft Co, 51-55; asst. prof. math. & physics, Xavier (La), 55-57; instr. math. & res. assoc. statist, Stanford, 57-58; from asst. prof. to assoc. prof. MATH, San Diego State Col, 58-66; PROF, CASE WESTERN RESERVE, 66- Prin. investr, Nat. Sci. Found. res. grants, 57-; summers, instr, Ala. State Col, 48-49, vis. scientist, California, La Jolla, 59, scholar & res. assoc, Berkeley, 60, vis. scholar, Washington (Seattle), 61. Consult, 58- Inst. Math. Statist; Statist. Asn; Math. Soc. Structure of stochastic processes; statistical completeness; theory of distribution-free statistics; statistical applications in engineering and biology. Publ: On the structure of stochastic independence, Ill. J. Math; On the structure of distribution-free statistics, Ann. Math. Statist; Applications of distribution-free statistics to some problems in missile design and production. Address: Dept. of Mathematics, Case Western Reserve University, University Circle, Cleveland, Ohio 44106.

BELL, DR. CHARLES GORDON, b. Los Angeles, Calif, Apr. 8, 29; m. 65. POLITICAL SCIENCE. B.A, Pomona Col, 52; M.A, Southern California, 58, Haynes fel, 62, Roy Malcolm fel, 63, Ph.D.(polit. sci), 66. Asst. prof. POLIT. SCI, San Diego State Col, 63-64; CALIF. STATE COL. FULLERTON, 64-67, ASSOC. PROF, 67-, DIR. CENTER GOVT. STUDIES, 65- Dir, Nat. Sci. Found. res. proj, 67-69. Consult. elections & reapportionment, Calif. State Legis, 64-65; alcoholism res, Orange County Med. Center, 66-67. Polit. Sci. Asn. Legislative socialization of freshman assemblymen in California; survey research methodology; statistical techniques in social science. Publ: Co-auth, Medical indigency, 9/65 & A survey of emotionally disturbed children, 4/67, Center Govt. Studies, Calif. State Col. Fullerton; Reliable and unreliable respondents, West. Polit. Quart, 3/66. Address: Dept. of Political Science, California State College at Fullerton, Fullerton, Calif. 92631.

BELL, PROF. DANIEL, b. New York, N.Y, May 10, 19; div; c. 1. SOCIOLOGY. B.S, City Col. New York, 39; fel, Center Adv. Studies Behav. Sci, 58-59; Ph.D, Columbia, 60; L.H.D, Grinnell Col, 67. Writer, The New Leader, 40-41, managing ed, 41-44; Common Sense, 44-45; instr. soc. sci, Chicago, 45-48; lectr. SOCIOL, COLUMBIA, 52-59, assoc. prof, 59-62, PROF, 62- Co-ed, The Public Interest. Mem, President's Cmn. Tech, Automation & Econ. Progress, 65-66; co-chmn, Cmn. Soc. Report, U.S. Dept. Health, Ed. & Welfare, 66- Fel. AAAS; fel. Sociol. Asn; fel. Am. Acad. Arts & Sci. Social change; political sociology. Publ: Ed, The radical right, Doubleday, 62; The reforming of general education, Columbia, 66; Marxian socialism in America, Princeton, 67. Address: 450 Riverside Dr, New York, N.Y. 10027.

BELL, DR. DONALD RAY, b. Foreman, Ark, Sept. 21, 30; m. 58; c. 2. EDUCATIONAL PSYCHOLOGY, HUMAN DEVELOPMENT. B.S, Oregon, 61, M.S, 63, Ed.D.(ed. psychol), 64. Instr. res. methods, Oregon State, 63-64; ASST. PROF. PSYCHOL, EAST. WASH. STATE COL, 64- Summer res. assoc, bur. child res, Univ. Kansas, 66. Psychol. Asn. Motivation;reinforcement; child rearing practices. Publ: Co-auth, Parental behavior ratings by subjects classified as reward seekers or punishment avoiders, Psychol. Reports, 66; Retardate reward-seeking or punishment-avoiding under three types of incentives & Risk-taking by reward-seeking, punishment-avoiding, or mixed-orientations retardates, Am. J. Ment. Deficiency, (in press). Address: Dept. of Psychology, Eastern Washington State College, Cheney, Wash. 99004.

BELL, PROF. EARL H(OYT), Sociol, Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 63.

BELL, DR. FREDERICK W, b. Detroit, Mich, Mar. 17, 35; m. 61; c. 2. ECONOMICS. B.S, Wayne State, 57, Nat. Defense Ed. Act fel, 60-63, M.A, 61, Nat. Sci. Found. fel, summer 61, Resources Future fel, 63-64, Ph.D.(econ), 64. REGIONAL ECONOMIST, FED. RESERVE BANK BOSTON, 64- Assoc. prof, Clark, 65- U.S.A, 58-60. Econ. Asn; Economet Soc. Production function; economics of the fisheries; economies of scale in banking. Publ: The role of capital-labor substitution in economic adjustment of an industry across regions, South. Econ. J, 10/64; The relation of the region, industrial mix and production function to metropolitan wage levels, Rev. Econ. & Statist, 8/67; An econometric forecasting model for a region, J. Regional Sci, winter 67. Address: Federal Reserve Bank of Boston, Boston, Mass. 02106.

BELL, DR. GEORGE A(LFRED), b. Brooklyn, N.Y, Aug. 2, 14; m. 40; c. 3. POLITICAL SCIENCE. A.B, Newark, 36; M.A, N.J. State Teachers Col, Montclair, 40; Ph.D.(polit. sci), Michigan, 55. Instr. govt, Champlain Col, 46-52; polit. sci, Michigan, 54-55; res. assoc, bur. govt. res, Maryland, 55-57; asst. budget dir, State of Mo, 57-62; budget dir, State of Vt, 62-65; DIR. RES, COUN. STATE GOVTS, CHICAGO, 65- Polit. Sci. Asn; Soc. Pub. Admin. State, municipal and rural local government; public administration. Publ: Michigan Municipal League; State budget administration in Maryland; co-auth, Legislative process in Maryland. Address: 436 Illinois St, Park Forest, Ill. 60466.

BELL, PROF. GRAHAM B(ERNAT), b. Dobbs Ferry, N.Y, July 4, 23; m. 49; c. 4. PSYCHOLOGY. B.A, Wesleyan, 47; M.A, Northwestern, 50, Ph.D, 52. Asst. prof. PSYCHOL, La. State, 51-54, assoc. prof, 54-56; PROF. & CHMN. DEPT, POMONA COL, 56- Fulbright res. grant, Western Australia, 55; vis. prof, Calif. State Col. Los Angeles, 60-; Pa. State, 61. U.S. Agency Int. Develop. expert consult, res. div, U.S. Opers. Mission, Thailand, summer 67. U.S.A, 43-45. Psychol. Asn. Group dynamics; sensitivity to other persons; leadership in industrial setting. Publ: An attempt at validating Kerr's empathy test, J. Appl. Psychol; Consistency of leadership as a function of group membership, J. Abnorm. & Soc. Psychol. Address: Pomona College, Mason Hall, Claremont, Calif. 91711.

BELL, DR. GUS K(AISER), b. Knoxville, Tenn, June 27, 27; m; c. 3. PSYCHOLOGY. A.B, Southwestern at Memphis, 51; Ph.D.(psychol), Tennessee, 56. Sch. psychometrist, Tenn, 52; clin. psychol. trainee, Vet. Admin. Ment. Hyg. Clin, Knoxville, 53-54, Kennedy Vet. Admin. Hosp, 54-55; clin. psychol. trainee, Knoxville Ment. Health Center, 55-56, clin. psychologist, 56; NASHVILLE MENT. HEALTH CENTER, 56-58, sr. clin. psychologist, 58-66, chief clin. psychologist, 66-67, TRAINING CONSULT, 67-; CLIN. & CONSULT. PSYCHOLOGIST, 64- Asst. clin. psychologist, psychol. serv. center, Tennessee, 55-56; vis. lectr, Peabody Col, 58; lectr, sch. nursing, Vanderbilt, 58-, vis. lectr, grad. dept. psychol, 61; lectr, Fisk, 61- Consult, sch. nursing, Meharry Med. Col, 59-61; Tenn. Re-ed. Center Emotionally Disturbed Children, 64-; parents of young deaf children prog, Bill Wilkerson Hearing & Speech Center, 66- Psychol. Asn. Personality evaluation and diagnosis; adult and child psychotherapy; personality; human development; group therapy. Address: 1920 Church St, Nashville, Tenn. 37203.

BELL, HARRY H, b. Haddonfield, N.J, Jan. 2, 17; m. 42; c. 1. ECONOMICS. B.S, Haverford Col, 38; Geneva, 38-39; M.A, California, 57; Air War Col, 61. Econ. analyst, Fed. Reserve Bank New York, 39-41; for. serv. officer to 3rd & 2nd secy, U.S. Dept. State, U.S. Embassy, Djakarta, 52-54, Paris, 54-56, 1st secy. to chief, Int. Trade & Materials Br, 57-60, 1st secy. & financial adv, U.S. Mission European Communities, Brussels, 61-65, DIR. RES. DIV, UN CONF. TRADE & DEVELOP, GENEVA, 65- Mem. U.S. Del, Econ. Cmn, Europe, Geneva, 55; Trade Cmt, OEEC, Paris, 60. U.S.A, 41-46, 1st Lt. Statist. Asn; Regional Sci. Asn; Econ. Asn. International finance; commercial policy; general monetary economics, especially in diplomatic context. Publ: Equilibrium in the balance of payments, South. Econ. J; Monetary problems of military occupations, Studies War Infantry J. Address: UN Conference Trade & Development, Palais des Nations, Geneva, Switz.

BELL, PROF. HUGH M(cKEE), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

BELL, DR. JAMES BAILEY, b. Marionville, Va, May 21, 32; m. 56; c. 1. AGRICULTURAL ECONOMICS. B.S, Va. Polytech, 54, M.S, 58; Ph.D.(agr. econ), Florida, 64. Asst. prof. AGR. ECON, VA. POLYTECH, 57-66, ASSOC. PROF. 66- U.S.A, 54-55, 61-62, Capt. Agr. Econ. Asn. Extension fruit and vegetable marketing. Publ: Roadside marketing, Va. Polytech. Inst, 65; co-auth, Market structure and economic analysis of Florida sweet corn industry, Univ. Florida, 65. Address: Dept. of Agricultural Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

BELL, PROF. JAMES R(OBERT), b. Goodland, Kans, Oct. 3, 10; m. 39. POLITICAL SCIENCE. B.S, California, 38, Ph.D, 56. Asst. exec. officer, State Personnel Bd, Calif, 47-57; PROF. GOVT, SACRAMENTO STATE COL, 57-, lectr, 49-50. Consult, civil serv. div, gen. hqs, Supreme Comdr. Allied Powers, Tokyo, Japan, 48. U.S.A.A.F, 42-46, Capt. State government, especially executive branch; public administration. Publ: Co-auth, Growth & government in Sacramento, Indiana Univ; Executives in California government, Dickenson, 67; State executive reorganization. Address: 5531 State Ave, Sacramento, Calif. 95819.

BELL, DR. JAMES WASHINGTON, Econ, see 10th ed, Soc. & Behav. Vols, deceased, 66.

BELL, DR. JOHN ELDERKIN, b. Vancouver, B.C, Sept. 10, 13; nat; m. 41; c. 1. PSYCHOLOGY. B.A, British Columbia, 33; dipl, Union Theol. Col, B.C, 36; M.A, Columbia, 41, Ed.D, 42. Prof. psychol, Park Col, 42-44; assoc. prof. & dir. psychol. clin, Clark, 44-56; acting chief, NAT. INST. MENT. HEALTH, 56-62, prog. dir, 62-67, ASSOC. REGIONAL HEALTH DIR. MENT. HEALTH, 67- Vis. prof, Edinburgh, 54-55; lectr, California, Berkeley, 61- & med. center, San Francisco, 65- Consult, Worcester, State Hosp, Mass, 49-56; Vet. Admin, 52-56. Dipl, Am. Bd. Exam. Prfnl. Psychol, 53. Fel. Psychol. Asn; fel. Soc. Proj. Tech.(pres, 52-53); Pub. Health Asn. Projective techniques; family in hospital; family group therapy; family reactions to handicapped children. Publ: Projective techniques; Family group therapy, Pub. Health Monogr; The case of Gregor, In: Rorschach research exchange. Address: 1112 Hillview Rd, Berkeley, Calif. 94708.

BELL, PROF. JOHN F(RED), b. Cambridge, Ohio, Feb. 21, 98; m. 29; c. 3. ECONOMICS. A.B, Muskingum Col, 23, LL.D, 57; A.M, Illinois, 24, Ph.D, 28; fel, Harvard, 27. Instr. econ, Illinois, 25-28; asst. prof. finance, Syracuse, 28-29; assoc. prof, Cleveland Col, Western Reserve, 29-31; prof. ECON. & head dept, Temple, 31-41; prof, ILLINOIS, URBANA, 41-66, head dept, 57-66, EMER. PROF, 66- Prin. economist, Off. Price Admin, 41, assoc. price exec, 41-42; pub. rep, Chicago War Labor Bd, 42-45; Ill. Post-War Planning Cmn, 45-46; dir, Bur. Econ. & Bus. Res, Ill, 42-45. Econ. Asn; Royal Econ. Soc. Economic theory; history of economic thought; money and finance. Publ: Development of trust companies in United States; A history of economic thought, rev. ed, 67; Origins of Japanese economic thought, Monumenta Nipponica. Address: 18072 Gillman St, Irvine, Calif. 92664.

BELL, DEAN KEITH ANDREW, b. Keldron, S.Dak, Apr. 16, 13; m. 40. COUNSELING PSYCHOLOGY. A.B, Whitworth Col, 41; B.D, West. Baptist Theol. Sem, 47; summer, Washington (Seattle), 50; M.Ed, Oregon, 51; Ed.D, Oregon State, 59. Assoc. prof. ed. & psychol. & dir. student personnel, Cascade Col, 48-58; asst. prof. ed. psychol. & dir. testing, Portland State Col, 58-63; PROF. PSYCHOL. & DEAN STUDENTS, Malone Col, 63-66; SEATTLE PAC. COL, 66- Psychol. Asn; Nat. Soc. Study Ed; Personnel & Guid. Asn. Parental identification of problems in their teenage children; prediction of academic achievement. Address: Dept. of Psychology, Seattle Pacific College, Seattle, Wash. 98119.

BELL, PROF. LAWRENCE JAMES, Econ, see 10th ed, Soc. & Behav. Vols.

BELL, PROF. LEWIS C(LAY), b. Staten Island, N.Y, Mar. 29, 28; m. 51; c. 3. ECONOMICS, PUBLIC FINANCE. A.B, Berea Col, 53; fel, Emory, 53-54; Nat. Asn. County Off. fel. & Ph.D.(econ, pub. finance), Kentucky, 57. Asst. pub. finance, Kentucky, 54-55, res. assoc, 56-57; asst. dir. purchases, State of Ky, 57, dir. purchases, 57-60; assoc. prof. econ, Mississippi, 60-64, prof, 64-65, res. analyst, 63-64, sr. res. analyst, 64; prof. econ. & dir. tax res. center, Western Kentucky, 65-68, dir. off. res. & serv, 66-68; PROF. ECON. & FISCAL CONSULT, WEST VIRGINIA, 68- U.S. Bur. Pub. Rd. res. grant, 63-65; summers, fel. to study New York securities mkt, 61; Nat. Asn. Purchasing Agents faculty internship, 62. Mem. res. cmt, Nat. Asn. State Purchasing Off, 66- Econ. Asn; Tax Inst. Local taxes. Publ: Co-auth. & study dir, State and local taxes, Ky. Legis. Res. Cmn, 67; auth, Third structure taxes: their applicability for Kentucky; Political pitfalls and administrative practicabilities in establishing and maintaining assessment levels, Proc. Nat. Tax Asn. Annual Conf, 67. Address: Dept. of Economics, West Virginia University, Morgantown, W.Va. 26506.

BELL, DR. NORMAN WALLIS, b. Can, Feb. 18, 28; m. 53; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Toronto, 50, M.A, 53; Ph.D, Harvard, 59. Asst, oper. res. group, Can. Defence Res. Bd, 50-51; SOCIOL, Univ. Toronto, 51-53, instr, 53; asst, lab. soc. rels, Harvard, 54-59, res. assoc, 59-66, res. asst, family guid. center, 57-58, asst, sch. med, 60-61, res. assoc, 61-66, asst. prof, 66-67; PROF. TORONTO, 67- Vis. prof, California, Berkeley, 66-67. Asst. sociologist, McLean Hosp, 58-67, acting chief soc. sci. dept, 61-62, chief, 62-67; consult, Worcester State Hosp, 59-67. Summer res. scientist, Can. Defence Res. Med. Labs, 54. Ed, bull, Harvard, 54-55. Sociol. Asn; Can. Polit. Sci. Asn. Normal and disturbed families; organization of psychiatric facilities and their relationship to family structure. Publ: Modern introduction to the family; The family of the psychiatric patient, In: American handbook of psychiatry; co-auth, Social psychiatry: vagaries of a term, Arch. Gen. Psychiat, 66. Address: 44 Old Bridle Path, Toronto 7, Ont, Can.

BELL, PROF. PHILIP W(ILKES), b. New York, N.Y, Oct. 24, 24; m. 45; c. 4. ECONOMICS. B.A, Princeton, 47, Ph.D.(econ), 54; M.A, California, 49. Res. asst, European aid study group under direction of Dwight D. Eisenhower, Coun. For. Rels, 49-50; instr, Princeton, 50-51; asst. int. rels, Inst. Adv. Study, 51-52; asst. prof. econ, Haverford Col, 52-56, assoc. prof, 60-62, prof, 62-64; assoc. prof, California, 57-60; prof. econ, head dept. & dean soc. sci. faculty, Makerere Univ. Col, Uganda, 64-65; prof. econ. & head dept, Fisk, 65-66; Lincoln, 66-68; PROF. ECON. & PROVOST, COL. IV, CALIFORNIA, SANTA CRUZ, 68- Lectr, Salzburg Seminar Am. Studies, Austria, 55; acting dir. int. finance sect, Princeton, 55-56. Consult, U.S. Treasury Dept, 61-63; Agency Int. Develop, 62-63; Rockefeller Found, 62-63, E. & Cent.

African rep, 63-65, assoc.dir.humanities & soc.sci, 65-67; consult, African affairs, U.S. State Dept, 66-67. Mem. panel int. tech. assistance, President's Sci.Adv.Cmt, 66-67. U.S.A.A.F, 43-45, 2nd Lt. Am.Econ. Asn; Economet. Soc; Royal Econ. Soc. International economics; monetary theory; accounting. Publ: The sterling area in the postwar world; co-auth, The theory and measurement of business income; auth, Cyclical variations and the trend in occupational wage structure in the United States, Rev. Econ. & Statist. Address: Dept. of Economics, College IV, University of California, Santa Cruz, Calif. 95060.

BELL, DEAN REGINALD, b. Jubbalpore, India, Jan. 31, 94; m. 18; c. 2. EDUCATIONAL PSYCHOLOGY, SOCIOLOGY. A.B, Oberlin Col, 16; M.A, Stanford, 28, Ph.D.(ed. psychol, sociol), 33. Asst. dir. citizenship, Stanford, 31-34, acting dir, 34-35, assoc. prof. ed. psychol, 35-48; dean student personnel & guid, SAN FRANCISCO STATE COL, 48-50, INSTRUCTION, 50-62, EMER. DEAN, 62- Carnegie grant, Stanford, 32-34; Gen. Ed. Bd. fel, California, 37; Chicago, 39-40; specialist teacher ed, Columbia-Agency Int. Develop, India, 62-65. Sr. ed. consult, bur. aeronaut, U.S. Dept. Navy, 42. Sig.C.Res, 18-19; U.S.N.R, 43-45, Lt. Comdr. Psychol. Asn. Child development and learning; educational and vocational problems of second generation Japanese. Publ: Public school education of second generation Japanese in California; co-auth, Motion pictures in a modern curriculum & Student personnel problems. Address: 23 Garden Lane, Colma, Calif. 94015.

BELL, DR. RICHARD Q, b. Logan, Utah, Feb. 10, 19; m. 40; c. 3. PSYCHOLOGY. A.B, Missouri, 40, M.A, 41; Ph.D.(psychol), Stanford, 51. Instr. psychol, Knox Col, 47-48; trainee clin. psychol, Vet. Admin. Hosp, Palo Alto, Calif, 48-51; consult, NAT. INST. MENT. HEALTH, 51-53, res. psychologist, sect. child develop, 53-59, CHIEF CHILD RES. BR, 67- Fel. Psychol. Asn; Soc. Res. Child Develop. Human and lower animal behavior development. Publ: Some factors to be controlled in studies of the behavior of newborns, Biologia Neonatorum, 63; Developmental psychology, Annual Rev. Psychol, 65; A reinterpretation of the direction of effects in studies of socialization, Psychol. Rev, 68. Address: 5909 Cheshire Dr, Bethesda, Md. 20014.

BELL, DR. ROBERT E(UGENE), b. Marion, Ohio, June 16, 14; m. 38; c. 2. ANTHROPOLOGY. B.A, New Mexico, 40; M.A, Chicago, 43, Ph.D.(anthrop), 47. Lab. asst, Chicago, 40-43, dir. dendrochronology lab, 46-47; asst. prof. ANTHROP, OKLAHOMA, 47-51, assoc. prof, 51-55, prof, 55-67, RES. PROF, 67-, CURATOR DIV. ANTHROP, STOVALL MUS, 55- Dir, Okla. River Basin Salvage Lab, 62-; area coordinator, Bolivian Peace Corps Proj. I; Nat. Park Serv. res. grants, 65-67. U.S.A, 42-45. AAAS; Soc. Am. Archaeol.(ed, Am. Antiq, 66-70); fel. Anthrop. Asn; Asn. Phys. Anthrop; Tree Ring Soc; Polynesian Soc; Far-East. Prehist. Asn; Archaeol. Soc. Panama; N.Z. Archaeol. Asn. Archaeology and dendrochronology of the Mississippi Valley. Publ: Dendochronology in the Mississippi Valley, In: Archaeology of eastern United States, Univ. Chicago, 52; Archaeological investigations at the site of El Inga, Ecuador, Editorial Casa de la Cultural Ecuatoriana, Quito, Bilingual ed, Spanish & English, 65. Address: Dept. of Anthropology, University of Oklahoma, Norman, Okla. 73069.

BELL, PROF. ROBERT ROY, b. Cleveland, Ohio, Sept. 9, 24; m. 50; c. 2. SOCIOLOGY. B.A, Mich. State, 51; M.A, Indiana, 54. Teaching assoc. SOCIOL, Indiana, 52-54; instr, TEMPLE, 54-60, asst. prof, 60-65, ASSOC. PROF, 65- U.S.A, 43-45. Family sociology; human sexual behavior. Publ: Marriage and family interaction, Dorsey, 64 & 67; Premarital sex in a changing society, Prentice-Hall, 66; Studies in marriage and the family, Crowell, 68. Address: Dept. of Sociology, Temple University, Philadelphia, Pa. 19122.

BELL, PROF. ROBERT W(AYNE), Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BELL, DR. RODERICK ARTHINGTON, b. Valparaiso, Ind, Apr. 11, 41; m. 63; c. 1. POLITICAL SCIENCE. A.B, Wabash Col, 62; Ph.D.(polit. sci), Indiana, 66. ASST. PROF. GOVT, TEXAS, 66- Polit. Sci. Asn. Methodology of political science; psychological involvement in politics; women and politics. Address: Dept. of Government, University of Texas, Austin, Tex. 78712.

BELL, PROF. RUTH E(STELLA), b. Pleasanton, Kans, Jan. 9, 03. ECONOMICS. A.B, Washburn Col, 27; scholar, Clark, 27-28, A.M, 28, fel, 28-29; Columbia, 32-33; Kansas, 33-34, 45. Asst. pub. rels. officer, Export-Import Bank, D.C, 34-35; instr, Christian Col, 35-39; Fla. State Col, 39-40; Black Hills Teachers Col, 40-43; asst. prof, Tampa, 43-45; ASSOC. PROF. ECON, TEXAS A&I, 45- Economics of the condominium form of home ownership. Address: Dept. of Economics, Texas A&I University, Kingsville, Tex. 78363.

BELL, PROF. WENDELL, b. Chicago, Ill, Sept. 27, 24; m. 47; c. 2. SOCIOLOGY. A.B, Fresno State Col, 48; M.A, California, Los Angeles, 51, Soc. Sci. Res. Coun. fel, 51-52, Ph.D.(sociol), 52. Asst. prof. SOCIOL, Stanford, 52-54; assoc. prof, Northwestern, 54-57; from assoc. prof. to prof, California, Los Angeles, 57-63; PROF, YALE, 63-, CHMN. DEPT, 65- Fel, Center Adv. Study Behav. Sci, 63-64; Russell Sage Found. res. grant, 66-68. Ed, International studies in political and social change, Schenkman, 67- U.S.N.R, 43-46, Lt.(jg). Am. Sociol. Asn; Polit. Sci. Asn; Soc. Study Social Probs; Int. Sociol. Asn. Political and urban sociology; social change. Publ: Co-auth, Social area analysis; auth, Jamaican leaders, Univ. California, 64; ed, The democratic revolution in the West Indies, Schenkman, 67. Address: Sperry Rd, Bethany, Conn. 06525.

BELL, PROF. WILLIAM J, b. Pittsburgh, Pa, Oct. 20, 11; m. 43; c. 1. ECONOMICS, POLITICAL SCIENCE. B.A, Pittsburgh, 34, M.A, 36; Ph.D.(polit. sci), Indiana, 57. Prof. econ, Fairmont State Col, 46-48; econ. & bus, Franklin Col, 48-52; instr. polit. sci, Indiana, 53-59; asst. prof. ECON, JOHNSTOWN COL, PITTSBURGH, 59-64, ASSOC. PROF, 64- Econ. Asn; Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Labor economics; regional industrial development; public opinion. Publ: Contrib, Pub. Opinion Quart. Address: 337 Linden Ave, Johnstown, Pa. 15902.

BELL, PROF. WINIFRED, b. Detroit, Mich, Oct. 10, 14. SOCIAL WORK. A.B, Michigan, 36, M.S.W, 44; D.S.W, Columbia, 64. Dist. supvr, Family Serv. Soc, Detroit, Mich, 44-48; casework supvr, Adult Psychiat. Clin, 48-56, acting dir, 56-59; demonstration proj. specialist, U.S. Dept. Health, Ed. & Welfare, 62-66; PROF. SOC. WORK, MARYLAND, 66- Summer lectr, sch. soc. work, Smith Col, 62. Consult, Neighborhood Legal Serv. Proj, Wash, D.C, 67- Sociol. Asn; Asn. Social Workers. Publ: Co-auth, Public welfare: time for a change; Golden Eagle, 61; auth, Aid to dependent children, Columbia Univ, 65. Address: 1301 Delaware Ave. S.W, Washington, D.C. 20024.

BELLA, PROF. SALVATORE J(OSEPH), b. Lawrence, Mass, Dec. 21, 19; m. 46; c. 3. INDUSTRIAL RELATIONS. B.S, Boston, 47, A.M, 48; Danforth scholar, Cornell, 55-56, Ph.D, 62. Asst. prof, Alfred, 48-55; asst. prof. bus. orgn. & mgt. & dir. supvry. develop. prog, NOTRE DAME, 58-64, JESSE JONES PROF. MGT. & CHMN. DEPT, 64- Econ. Asn; Indust. Rels. Res. Asn. Labor relations; collective bargaining; business organization and management; human relations. Publ: National war labor bd: a view against the background of grievance disputes; contrib, Introduction to modern economics. Address: 1029 Clermont Dr, South Bend, Ind. 46617.

BELLAH, PROF. ROBERT NEELLY, b. Altus, Okla, Feb. 23, 27; m. 49; c. 4. SOCIOLOGY. A.B, Harvard, 50, Ph.D, 55. Res. assoc. Middle East studies, Harvard, 57-58, lectr. soc. rels. & world relig, 58-61, assoc. prof. sociol. & regional studies, 61-66, PROF. sociol, 66-67; SOCIOL. & COMP. STUDIES, CALIFORNIA, BERKELEY, 67- Fel, Center Adv. Study Behav. Sci, 64-65. U.S.A, 45-46. Sociol. Asn; Asn. Asian Studies; Soc. Sci. Study Relig. Sociology of religion; comparative institutional structure; sociology of East Asia and Islam. Publ: Tokugawa religion; Apache kinship systems; ed, Religion and progress in modern Asia, Macmillan, 65. Address: 10 Mosswood Rd, Berkeley, Calif. 94704.

BELLAK, DR. ALVIN O(TTO), b. New York, N.Y, Apr. 19, 28. PSYCHOLOGY. B.A, Delaware, 49, M.A, 50; Ph.D, Pa. State, 54. Chief clin. psychologist, ment. hyg. clin, Aberdeen Proving Ground, Md, 54-57; mgt. consult, Edward N.Hay & Assocs, 57-67; Managing dir, Hay-MSA Ltd, 67; GROUP MGR, EDWARD N. HAY & ASSOCS, 67- Med.Serv.C, 52-57, Res, 57-, Capt. Psychol. Asn. Executive appraisal, compensation and development; business organization. Address: 120 S. Van Pelt St, Philadelphia, Pa. 19103.

BELLAK, DR. LEOPOLD, Psychiat, Psychoanal, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BELLAMY, PROF. RAYMOND F(LAVIUS), b. Moorefield, Ind, Oct, 21, 85; m; c. 3. SOCIOLOGY. A.B, Moores Hill Col, 10; A.M, Clark, 13, Ph.D, 17. Prof. ed. & psychol, Emory & Henry Col, 13-15; ed. & sociol, McKendree Col, 17-18; SOCIOL, FLA. STATE, 47-56, EMER. PROF, 56- Sociol. Asn. Patriotism; analysis of hair color; nature of scientific papers; scientific study of religion. Publ: Co-auth, Society under analysis, Preface to the social sciences & Social control. Address: 326 De Soto Dr, Tallahassee, Fla. 32303.

BELLAMY, DR. WILLIAM DREW, b. Orlando, Fla, Nov. 19, 25; m. 47; c. 4. COUNSELING PSYCHOLOGY. A.B, Bob Jones Univ, 48; M.R.E, New Orleans Baptist Theol. Sem, 61; M.S. Southern Mississippi, 62, Ph.D.(counseling), 64. Chmn. dept. psychol, N.GA. COL, 64-66, DIR. GUID, 66- U.S.A, 44-45. Personnel & Guid. Asn. Group behavior dynamics. Publ: Co-auth, Effectiveness of an attitudinal group approach as a behavior determinant, Sch. Counsr, 66. Address: Dept. of Guidance, North Georgia College, Dahlonega, Ga. 30533.

BELLAN, PROF. RUBEN CARL, b. Winnipeg, Man, Oct. 2, 18; m. 47; c. 3. ECONOMICS. B.A, Manitoba, 38; M.A, Toronto, 41; Ph.D, Columbia, 58. Assoc. prof. ECON, MANITOBA, 55-67, PROF, 67- Res. dir, Cmn. Metrop. Govt. Winnipeg, 55-59; dir, Surv. Pub. Sch. Costs, Man, 60, Surv. Prospects Construct. Indust, 62. R.C.A.F, 41-46, Res, 51-57, Squadron Leader. Metropolitan development; economic theory. Publ: Principles of economics and the Canadian economy; Fundamentals of economics. Address: Dept. of Economics, University of Manitoba, Winnipeg, Man, Can.

BELLAVIA, DR. CHARLES J(OHN), Clin. & Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

BELLEMORE, PROF. DOUGLAS H(AMILTON), b. Boston, Mass, Dec. 1, 09. FINANCE. B.S, Boston, 32, M.B.A, 33; Ph.D, N.Y. Univ, 37. Prof. bus, Skidmore Col, 36-37; chmn. dept. finance, col. bus. admin, Toledo, 37-46; dept. econ. & finance, col. bus, Boston, 46-56; PROF. FINANCE, GRAD. SCH. BUS. ADMIN, N.Y. UNIV, 56- Economist, Am. Inst. Finance-Investment Counsr, 49-56. U.S.N.R, 42-46, Capt. Econ. Asn; Finance Asn; N.Y. Acad. Sci. Investments; credit and financial management. Publ: Investments principles, practices and analysis; Security analysis; Strategic investor, South-Western Pub. Address: Graduate School of Business Administration, New York University, 100 Trinity Place, New York, N.Y. 10006.

BELLER, DR. EMANUEL K(UNO), Psychol, see 10th ed, Soc. & Behav. Vols.

BELLEVILLE, DR. RICHARD E(DWARD), b. Waterbury, Conn, Oct. 19, 25; m. 51. c. 2. PSYCHOLOGY. B.A, Centre Col, 49; M.A, Kentucky, 53, Ph.D.(psychol), 58. Res. psychologist, addiction res. center, Nat. Inst. Ment. Health, 49-58; chief res. & training sect, U.S. Air Force, Aerospace Med. Lab, Wright Air Develop. Center & Aeromed. Field Lab, Holloman Air Force Base, 58-60; dir. behav. sci. div, Inst. Internat. Res. & Develop, Tex. Tech. Col, 60-61; chief behav. sci. br, Ames Res. Center, NASA, 61-62, CHIEF BEHAV. BIOL. PROG, OFF. SPACE SCI. & APPLN, HQ, 62- Psychol. Asn; N.Y. Acad. Sci. Assessment of psychological effects and mechanisms of action of psychopharmacologic agents; application of operant conditioning techniques to study of behavior in outer space. Publ: Tolerance to some effects of barbiturates & Use of differential lever pressing rates for screeing analgesic drugs, J. Pharmacol. & Exp. Ther; Behavior of the chimpanzee on a complex multiple schedule. Address: Bioscience Program, Office of Space Science & Applications, Hq, National Aeronautics & Space Administration, Washington, D.C. 20546.

BELLIN, DR. SEYMOUR S, b. Brooklyn, N.Y, Dec. 14, 23; m. 51; c. 3. SOCIOLOGY. B.A, Brooklyn Col, 43; cert, Sorbonne, 46; M.A, Columbia, 48, Ph.D.(sociol), 62. Lectr. econ, exten. div, Rutgers, 47-49; asst. prof. sociol, Champlain Col, 49-50; sr. sociologist, community ment. health res. unit, State Dept. Ment. Hyg, N.Y, 51-54, assoc. sociologist, 54-60; assoc. prof.

sociol, Syracuse, & proj. dir. youth develop. center, 60-66; ASSOC. PROF. SOCIOL, SCH. MED, TUFTS, 66- Sociol Asn; Soc. Study Social Probs; Soc. Psychol. Study Social Issues. Social organization and change; social stratification; determinants of individual behavior; comprehensive health and community action program in northern urban and southern rural poverty areas. Publ: Co-auth, Fatherless families: a study of dependency, Youth Develop. Center, Syracuse Univ, 11/65; co-auth, Relationship among attitudes, circumstances and behavior: the case of applying for public housing, Sociol. & Soc. Res, 7/67 & The impact of mental disease on society, In: Explorations in Social Psychiatry, 58. Address: 31 Holly Rd, Waban, Mass. 02168.

BELLINGRATH, DEAN GEORGE C(OUNCIL), b. Atlanta, Ga, May 7, 97; m. 23; c. 1. PSYCHOLOGY. A.B, Davidson Col, 18; B.D, Union Theol. Sem, 23; M.A, Columbia, 25, Ph.D, 30. Pastor, Westminster Presby. Church, Richmond, Va, 30-34; dean, Piedmont Col, 34-36, pres, 36-39; Rabun Gap-Nacoochee Sch, 39-49; prof. psychol. & acad. dean, PRESBY. COL.(S.C), 49-62, EMER. ACAD. DEAN, 62- U.S.N.R, 17-18. Address: 701 Calvert Ave, Clinton, S.C. 29325.

BELLOWS, CAROL SLEICHER, b. Albany, N.Y, June 22, 14; m. 45; c. 1. PSYCHOLOGY. B.A, Wellesley Col, 36; M.A, Columbia, 39; Harvard, 39-40; Brown, 41. Asst. clin. psychol, State Training Sch, N.Y, 36-38; psychol, Wellesley Col, 39-41; instr, Wheaton Col.(Mass), 41-43; personnel technician, Civil Aeronaut. Admin, 43-45; clin. psychologist, Roger Bellows & Assocs, 46-54; sch. diagnostician, Mich. Pub. Schs, 54-55; sch. psychologist, N.J. Pub. Schs, 56-67. Lectr, American Univ, 43-45; Wayne State, 46; private practice, 46- Psychol. Asn; Int. Coun. Psychol. Educational and child psychology; developmental reading courses for adults, particularly in business and industry; vocational and educational guidance. Publ: Co-auth, Workbook in industrial psychology and personnel management, Management of learning: we lay waste our powers, Personnel Admin. & Reading abilities of business executives, J. Appl. Psychol. Address: 96 Lighthouse Dr, Jupiter, Fla. 33458.

BELLOWS, DR. ROGER M(ARION), b. Springfield, Ohio, Jan. 9, 05; m. 45; c. 3. PSYCHOLOGY. A.B, Ohio State, 27, A.M, 31, Ph.D.(psychol), 35. Tech. asst, occup. res. prog, U.S. Employ. Serv, 35-37, supvr. worker anal. sect, 37-38; asst. prof. psychol, Maryland, 38-39, assoc. prof, 39-41; consult. classification of mil. personnel, Secy. of War, War Dept, 41-42; officer in charge field studies, personnel res. sect, Adj. Gen. Off, 42-45; prof. personnel methods & chmn. dept, sch. bus. admin, Wayne, 45-50; dir, Personnel Res. Center, 50-54; personnel res, Gen. Foods Corp, 55-56; prof. psychol. & chmn. dept, Rutgers, 56-67; RETIRED. Proj. dir, Nat. Res. Coun, 39-51; vis. prof, Hawaii, summer, 57; Minnesota, 60; Miami, 61. Co-founder & dir, Richardson, Bellows, Henry & Co, 45-61, dir, Roger Bellows & Assocs, Mgt. Consults, 51-55. Ed, Indust. Training Abstracts, 46-50. Personnel technician, tech. training command, U.S.A.A.F, 41-42; civilian with U.S.N. AAAS; fel. Psychol. Asn; Soc. Adv. Mgt; Mgt. Asn. Human relations; personnel psychology; motivation and morale. Publ: Creative leadership; Psychology of personnel in business and industry; co-auth, Executive skills: their dynamics and development. Address: 96 Lighthouse Dr, Jupiter, Fla. 33458.

BELLOWS, DR. THOMAS JOHN, b. Chicago, Ill, Aug. 15, 35; m. 56; c. 4. POLITICAL SCIENCE. B.A, Augustana Col, 57; M.A, Florida, 58; M.A, Yale, 60, Ph.D.(polit. sci), 68. Asst. prof. POLIT. SCI, W.Ga. Col, 62-64 & 66; vis. lectr, Nanyang, 65; ASST. PROF, ARKANSAS, 67- Polit. Sci. Asn; Asn. Asian Studies. Southeast Asia; political development; political parties. Publ: Dilemmas of American foreign policy, Mirror, Singapore, 10/65; The Singapore party system, J. Southeast Asian Hist, 3/67. Address: Dept. of Political Science, University of Arkansas, Fayetteville, Ark. 72701.

BELLQUIST, PROF. ERIC C(YRIL), b. Jersey City, N.J, Sept. 22, 04; m. 34; c. 1. POLITICAL SCIENCE. A.B, California, 27, A.M, 28, univ. fel, 31-32, Ph.D, 32; Am-Scandinavian Found. traveling fel. from California, Uppsala, 30-31. Instr, Los Angeles City Col, 32-36; from instr. to PROF. POLIT. SCI, CALIFORNIA, BERKELEY, 36-, ASST. DEAN STUDENTS, 48-49, 55-, from v.chmn. to chmn. dept. polit. sci, 48-49. Soc. Sci. Res. Coun. traveling fel, 39-40. Prin. regional specialist, area chief & regional dir, Off. War Info, 43-45; chief area div. Europe & Brit. Cmt, off. int. info. & cultural affairs, U.S. Dept. State, 45-47; first secy. & pub. affairs officer, U.S. Embassy, Sweden, 49-51. Consult, Air Univ, 55; U.S. Exec. Reserve, 57- Knight, Order of Vasa, Sweden, 41; King Christian X's medal, Denmark, 46; Order of North Star, 51. Polit. Sci. Asn; Soc. Pub. Admin; Am. Soc. Int. Law; Int. Polit. Sci. Asn. Government and politics of the northern European countries; comparative government; conduct of foreign relations; public opinion. Address: 210 Barrows Hall, University of California, Berkeley, Calif. 94720.

BELMONT, DR. HERMAN S, b. Philadelphia, Pa, Mar. 13, 20; m. 46; c. 3. PSYCHIATRY, PSYCHOANALYSIS. A.B, Pennsylvania, 40, M.D, 43; Phila. Psychoanal. Soc. & Phila. Asn. Psychoanal, 47-50. Rockefeller fel. psychiat, Pa. Hosp. Ment. & Nervous Diseases, Inst. Pa. Hosp, 44; instr, sch. med, Pennsylvania, 47-48, assoc, 48-52; assoc. prof. & sr. attending CHILD PSYCHIAT, HAHNEMANN MED. COL. & HOSP, 52-60, clin. prof, 60-63, PROF. & HEAD SECT, 63-; SUPVR. & TRAINING ANALYST CHILD PSYCHOANAL, INST. PHILA. ASN. PSYCHOANAL, 52-, ADULT PSYCHOANAL, 56-, dir. child anal. training, 57-63. Mem, Gov. Comprehensive Ment. Health Planning adv. cmt, 64-66; adv. cmt. child psychiat. planning, Cmnr. Ment. Health, State of Pa, 64-; task force II, Joint Cmn. Ment. Health Children, 67- Med. C, U.S.A, 44-46, Capt. Psychoanal. Asn; Int. Psychoanal. Asn; Orthopsychiat. Asn; Psychiat. Asn; Acad. Child Psychiat; Asn. Child Psychoanal. Undergraduate and graduate training; administration of a program in child psychiatry integrating individual psychodynamics and social applications; application of individual psychodynamic knowledge to preventive work with children. Publ: Co-auth, A handbook of child psychoanalysis, Basic Books, 68; auth, The child patient, GP, 7/63; The development of the oral cavity as related to the development of total personality, J. Dent. Med, 4/64. Address: 249 N. Broad St, Philadelphia, Pa. 19107.

BELNIAK, DEAN JOHN P(AUL), b. Schenectady, N.Y, Mar. 31, 14; m. 41; c. 3. POLITICAL SCIENCE. A.B, Syracuse, 41, M.S, 46, Ed.D.(soc. studies), 52; Cornell, 53. ASST. PROF. POLIT. SCI, HARPUR COL, STATE UNIV. N.Y. BINGHAMTON, 46-, DEAN STUDENTS, 58-, acting dean, 53-54, dir. student activities, 54-58. Counsr, young adult prog, Endicott Bd. Ed, N.Y, 47-50; instr, State Univ. N.Y. Col. Ed, Cortland, 53. Personnel & Guid. Asn. Citizenship education; general education; social science. Publ: Method of teaching a general education course in the social studies & Characteristics of good and bad citizenship, Mid. States Coun. Proc; Student government, a point of view, Citizenship J. Address: Harpur College, State University of New York at Binghamton, Binghamton, N.Y. 13901.

BELOTTI, PROF. LORENZO MARIO, b. Oct. 15, 26; m. 57; c. 2. ECONOMICS. B.S, Midwestern, 54, M.A, 55; fel, Texas, 58, Ph.D.(econ), 60. Asst. ECON, Texas, 55-59; PROF. & CHMN. DEPT, SANTA CLARA, 59- Bus. consult, Italy. Econ. Asn. Economic development and planning; money and banking; public finance. Publ: Italy's land reform, Land Econ; Economic structure and economic development, J. Econ. & Sociol. Address: Dept. of Economics, University of Santa Clara, Santa Clara, Calif. 95053.

BELSHAW, PROF. CYRIL S(HIRLEY), b. N.Z, Dec. 3, 21; m. 43; c. 2. SOCIAL ANTHROPOLOGY. B.A, New Zealand, 42, M.A, 45; Horniman scholar, Royal Anthrop. Inst. Gt. Brit, 47-48; Ph.D.(soc. anthrop), London, 59. Colonial admin. officer, Brit. Solomon Islands Protectorate, 43-46; sr. sci. officer, Air Ministry, U.K, 49; res. fel, Australian Nat. Univ, 50-53; asst. prof. ANTHROP, BRITISH COLUMBIA, 53-56, assoc. prof, 56-61, PROF, 61-, asst. dir. Indian Res. Proj, 54-55. Res. grants, New Hebrides, 46 & New Guinea, 50-51; U.S. Soc. Sci. Res. Coun. faculty res. grant, 58-59; res. award, Tri-Instn. Pac. Prog, Fiji, 58-59; Guggenheim fel. & fel. UN Res. Inst. Soc. Develop, 65-66. Dir, Regional Training Center UN Fels, UN Bur. Tech. Asst. Opers, Vancouver, B.C, 61-63, mem. UN Eval. Mission Tech. Coop. Thailand, 62-65. Mem, U.K. War Off. Manpower Cmt. Working Party, 48; Can. Soc. Sci. Res. Coun, 67-; Can. Inst. Int. Affairs. N.Z. Army, 41-43; Brit. Solomon Islands Defence Force, 43-46. Asn. Soc. Anthrop. Brit. Commonwealth; fel. Royal Anthrop. Inst. Gt. Brit. Social and cultural anthropology, especially the comparative study of social change, economics of social systems, relationship of anthropology to other social sciences, development of generalized anthropological theory and the critique of welfare and applied anthropology. Publ: Under the ivi tree: society and economic growth in rural Fiji, Univ. California, 64; Anatomy of a university, Univ. British Columbia, 64; Traditional exchange and modern markets, Prentice-Hall, 65. Address: Dept. of Anthropology & Sociology, University of British Columbia, Vancouver 8, B.C, Can.

BELSHAW, DR. MICHAEL H(ORACE), b. Auckland, N.Z, June 23, 28; nat; m. 51. ECONOMIC DEVELOPMENT. A.B, Columbia, 51, Ph.D.(econ), 56. Instr. ECON, Barnard Col, Columbia, 55-58; asst. prof, Douglass Col, Rutgers, 58-60; HUNTER COL, 60-65, ASSOC. PROF, 65- Assoc, faculty seminar pre-indust. areas, Columbia, 58-62; Soc. Sci. Res. Coun. Joint Cmt. Latin Am. Studies res. fel, 62. Econ. Asn. Economic development of Latin America; allocation criteria for economic planning; techniques of community development. Publ: A village economy: land and people of Huecorio, Columbia Univ, 3/67; Operational capital allocation criteria for development planning, Econ. Develop. & Cultural Change; Aspects of theory of discounting, Eng. Economist. Address: Box 268 A, R.F.D. 1, New Milford, Conn. 06776.

BELSLEY, DR. G(ILBERT) LYLE, b. Roanoke, Ill, Jan. 5, 05; m. 31; c. 2. PUBLIC ADMINISTRATION. A.B, Pomona Col, 26, A.M, 27; Ph.D, Brookings Grad. Sch, 30. Asst. investr, U.S. Personnel Classification Bd, 28-29, res. asst. personnel admin, 30-31, sr. res. asst, 31-32; asst. investr, U.S. Bur. Efficiency, 29; mem. staff. inst. govt. res, Brookings Inst, 30; sr. res. asst, U.S. Civil Serv. Cmn, 32-33; dir. personnel, Farm Credit Admin, 33-35; dir, Civil Serv. Assembly, U.S. & Can, 35-40; consult. pub. admin, adv. cmn. to Coun. Nat. Defense & Off. Emergency Mgt, 40-41; asst. exec. secy, Off. Prod. Mgt, 41-42; exec. secy, War Prod. Bd, 42-45, dir. bur. demobilization, Civilian Prod. Admin, 45-46; asst. adminstr, Nat. Housing Agency, 46-47; dir. orgn. & personnel & asst. gen. mgr, Atomic Energy Cmn, 47; secy, Nat. Security Resources Bd, 47-49; cmnr. spec. serv, Fed. Security Agency, 49-50; asst. adminstr. for indust. adv. cmts, Nat. Prod. Authority, 50-53; assoc. dir, Pub. Admin. Clearing House, 53-56; exec. dir. cmn. intergovt. rel, 54-55; consult, Fed. Civil Defense Admin, 55-56; asst. adminstr. for resources & requirements, 56-58; dep. asst. dir. resources & prod, off. civil & defense mobilization, Exec. Off. President, 58-61, dir. resources planning & mobilization, off. emergency planning, 61-62, dir. econ. affairs off, 62-66; CONSULT, 67- Consult, President's Cmt. Admin. Mgt, 36-37; Nat. Sci. Found, 55. Polit. Sci. Asn; Soc. Pub. Admin; Soc. Personnel Admin; Pub. Personnel Asn. Management and development of national resources; use of study and advisory committees in governmental administration and policy formation; federalism and intergovernmental relations; personnel management. Address: 3227 Rittenhouse St. N.W., Washington, D.C. 20015.

BELT, PROF. VIRGINIA McKEMIE, b. Benton, Ill, June 6, 23; m. 43; c. 1. ECONOMICS, FINANCE. B.S, Southern Illinois, 44; M.S, Illinois, 48, Ph.D. (econ, finance), 55. Instr. econ, Illinois, 53-54; assoc. prof. finance & acct, Millikin, 54-61; PROF. FINANCE, CALIF. STATE COL. LONG BEACH, 61- Investment consult, 53-; consult, Ill. Banking Asn, 56-60; Calif. Dept. Employment, 63-65. Econ. Asn; Finance Asn. Control of the nation's securities exchanges; investigation of price volatility in securities registered on the nation's registered exchanges resulting from decisions by exchange officials and Securities Exchange Commission. Publ: Statistical report on securities qualified or registered in Illinois, State Dept. Ill, 55; A model for the determination of firms' cash balances, J. Financial & Quant. Anal, 3/66; The forums on finance, Investment Dealer's Digest, 6/66. Address: Dept. of Business Finance, California State College, Long Beach, Calif. 90801.

BELTHUIS, PROF. LYDA C(AROL), b. Parkersburg, Iowa, May 29, 13. GEOGRAPHY. B.A, Iowa State Teachers Col, 39; M.A, Colo. State Col. Ed, 43; fel, Michigan, 46-47, Ph.D.(geog), 47. Asst. prof. GEOG, MINNESOTA, DULUTH, 47-51, assoc. prof, 51-55, PROF, 55-, head dept, 55-65. Consult, Guide to Sec. Soc. Studies, Minn, 49-52. Asn. Am. Geog; Nat. Coun. Geog. Ed; Royal Geog. Soc. Australia. Regional geography of Australia, New Zealand and Anglo-America. Publ: Minnesota in maps, 5th revision, 67; The snowy development, Australia, nearing completion, 67; Coleambally irrigation area, Australia, an introduction, 67. Address: 100 Elizabeth St, Duluth, Minn. 55803.

BELYEA, PROF. EDWIN S(TEPHENS) W(AYCOTT), b. Fredericton, N.B, May 29, 17; m. 41; c. 3. PSYCHOLOGY. B.A, Toronto, 39, M.A, 41. Instr. PSYCHOL, Toronto, 40-42; asst. prof. BRITISH COLUMBIA, 46-49; ASSOC. PROF, 49- R.C.N.V.R, 42-46; R.C.N.R, 50-58, Comdr. Assoc. Am. Psychol. Asn; Can. Psychol. Asn; Inst. Pub. Admin. Can; Brit. Psychol. Soc; Nat. Inst. Indust. Psychol, Brit. Psychology in industry, institutions and public service: perception, motivation, attitudes, supervisory leadership. Publ: A test of distance judgement for the selection of aviation personnel, Bull. Can. Psychol. Asn; Reading machine for the blind, Nature. Address: Dept. of Psychology, University of British Columbia, Vancouver 8, B.C, Can.

BELZUNG, DR. L(AURIE) DENNIS, b. San Antonio, Tex, Sept. 11, 23; m. 48; c. 3. ECONOMICS. B.J, Texas, 48, M.A, 50, Ph.D.(econ), 60. Pub. rels. staff, Off. Gov. of Tex, 48-49; newsman, United Press, 49-56; teaching asst. econ, Texas, 56-59; economist, Humble Oil & Refining Co, 60-63; asst. prof. ECON, HOUSTON, 63-67, ASSOC. PROF, 67- U.S.A.A.F, 43-45, S/Sgt. Econ. Asn. Physical and human resources. Publ: Co-auth, Anatomy of a workforce reduction, Univ. Houston, 66; An epilogue to job displacement: a case study of structural unemployment, South. Econ. J, 66; Consequences of voluntary early retirement: a case study of a new labor force phenomenon, Brit. J. Indust. Rels, 67. Address: Dept. of Economics, University of Houston, Cullen Blvd, Houston, Tex. 77004.

BEM, DR. DARYL J(AY), b. Denver, Colo, June 10, 38; m. 65. SOCIAL PSYCHOLOGY. B.A, Reed Col, 60; Woodrow Wilson fel, Mass. Inst. Tech, 60-61; Nat. Sci. Found. fel. & Ph.D.(soc. psychol), Michigan, 64. Asst. prof. PSYCHOL. & INDUST. ADMIN, CARNEGIE-MELLON UNIV, 64-66, ASSOC. PROF, 66- Nat. Sci. Found. res. grant, 67-69. AAAS; Psychol. Asn. Personality and social psychology, particularly self-perception, attitude change, expressive behavior and group decision making. Publ: Co-auth, A laboratory manual for the control and analysis of behavior, Brooks-Cole Pub, 65; auth, Inducing belief in false confessions, J. Personality & Soc. Psychol, 66; Self-perception: an alternative interpretation of cognitive dissonance phenomena, Psychol. Rev, 67. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

BEMIS, PROF. GEORGE W, Pub. Admin, see 10th ed, Soc. & Behav. Vols.

BEN-AVI, PROF. AVRUM, b. New York, N.Y, Nov. 8, 16; m. 46; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 38, M.A, 40, fel, 40-42, Ph.D, 42; cert, William Alanson White Inst. Psychiat, 54. Instr. PSYCHOL, N.Y. UNIV, 46-49, asst. prof, 49-52, assoc. prof, 52-55, adj. assoc. prof, 55-60, ADJ. PROF, 60- Consult, Vet. Admin, 47-53. U.S.A.A.F, 42-46, Capt. Psychol. Asn; Asn. Psychoanal. Psychol.(pres, 58). Training of clinical psychologists, especially in psychotherapy and psychoanalysis; interpersonal transaction as a therapeutic agent; use of dreams in therapy. Publ: Zen Buddhism, In: American handbook of psychiat. Address: 140 E. 40th St, New York, N.Y. 10016.

BENDA, DR. HARRY J(INDRICH), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BENDER, DR. BYRON W(ILBUR), b. Roaring Spring, Pa, Aug. 14, 29; m. 50; c. 5. ANTHROPOLOGICAL LINGUISTICS. B.A, Goshen Col, 49; A.M, Indiana, 50, univ. fel, 51-53, Am. Coun. Learned Socs. fel, 62, Ph.D.(ling), 63. Teacher, intermediate sch, Marshall Islands, 53-55; ed. & training specialist, dept. ed, Off. High Cmnr, Trust Territory of Pac. Islands, 55-59, Eng. prog. supvr, 62-64; asst. prof. ling. & anthrop, Goshen Col, 59-62; ASSOC. PROF, Eng. lang. inst, HAWAII, 64-65, LING, 65-, TESL coordinator & linguist, Marshallese Lang. Peace Corps Training Projs: Micronesia II & IV, 66-67. Managing ed, Oceanic Ling, 65-; co-ed, Oceanic Ling. Spec. Pub, 66- Consult, N.Z. Coun. Ed. Res, 67-68. Ling. Soc. Am; Polynesian Soc; Ling. Soc. N.Z. Languages of Micronesia; languages and peoples of the Pacific area. Publ: Friulian phonology & Marshallese phonemics: labialization or palatalization? Word, 63; Pretences in language teaching, In: English language teaching, 64. Address: Dept. of Linguistics, University of Hawaii, Honolulu, Hawaii 96822.

BENDER, DR. DELANO LAWRENCE, b. Denver, Colo, Dec. 20, 06; m. 34. PSYCHOLOGY. A.B, Colo. State Col, 37; M.A, Denver, 39, Ph.D, 53; Colorado, 46-51. Indust. engr, Remington Arms Co, Inc, 42-43, sr. statist. engr, 44-45; chief voc. rehab. & ed. sect, Vet. Admin. Hosp, Ft. Logan, Colo, 45-51, counseling psychologist, Denver, 51-55; supv. res. surv. statistician, Air Force Acct. & Finance Center, 55-57; chief clin. psychologist, Colo. State Home & Training Sch, 57-59; indust. psychologist, aviation div, Sundstrand Corp, 59-63; sr. clin. psychologist, Denver Children's Hosp, 63-66; CLIN. PSYCHOLOGIST & SUPVR. EVAL. UNIT, SERV. FOR THE BLIND, 66- Prof, Regis Col.(Colo), 57- Exec. secy, Colo. Gov. Cmt. Employ. Handicapped, 55-57, chmn, 57-59; chmn, Denver Mayor's Cmt, 67- Consult. personnel psychologist, Reynolds-Merrill-Brunson Assoc, 65-; consult. child psychologist, Children's Hosp, 66- U.S.A.A.F, 43-44. Psychol. Asn; Statist. Asn; Personnel & Guid. Asn; Rehab. Asn; Syst. & Procedures Asn; fel. Asn. Ment. Deficiency. Education. Publ: Utilization of EDPM cards for analysis of property losses of the U.S.A.F. world wide; Evaluation of personal and technical qualification for placement of newly blinded individuals. Address: 1222 S. Alcott St, Denver, Colo. 80219.

BENDER, DR. DONALD RAY, b. Madison, Wis, Oct. 23, 34; m. 57; c. 2. ANTHROPOLOGY. B.A, Wisconsin, 57; Ph.D.(anthrop), Northwestern, 65. ASST. PROF. ANTHROP, San Jose State Col, 61-65; MINNESOTA, 65- Nat. Defense Ed. Act. fel. study Yoruba lang, 66; Nat. Sci. Found. res. grant, 67-69. Anthrop. Asn; African Studies Asn. The history of anthropology; African ethnology; kinship organization; cultural ecology. Publ: The history of French anthropology, J. Hist. Behav. Sci, 4/65; A refinement of the concept of household: families, co-residence, and domestic functions, Am. Anthropologist, 68. Address: Dept. of Anthropology, McNeal Hall, University of Minnesota, St. Paul, Minn. 55101.

BENDER, DR. FILMORE EDMUND, b. Bakersfield, Calif, Aug. 9, 40; m. 58; c. 4. ECONOMICS. B.S, California, Davis, 61; M.S, N.C. State, 65, Ph.D. (econ), 66. ASST. PROF. AGR. ECON, MARYLAND, 64- Mem. bd. dirs. & econ. consult, Agriplan, Inc, 67- Econ. Asn; Agr. Econ. Asn. Demand theory; econometrics; computerized firm management decision-making aids. Publ: Performance of the broiler industry—a simulative approach, J. Farm Econ, 12/66. Address: Dept. of Agricultural Economics, University of Maryland, College Park, Md. 20740.

BENDER, DR. HARRY, Psychol, see 10th ed, Soc. & Behav. Vols.

BENDER, PROF. IRVING E(DISON), b. Buffalo, N.Y, Aug. 27, 93; m. 32. PSYCHOLOGY. A.B, Michigan, 15; A.M, Dartmouth Col, 27; fel, Syracuse, 28-30; Ph.D.(psychol), 35. Instr. PSYCHOL, Dartmouth Col, 26-28; Syracuse, 28-30; asst. prof, DARTMOUTH COL, 30-39, prof, 40-59, chmn. dept, 40-47, EMER. PROF, 59- Fel. Psychol. Asn. Personality and social psychology; visual factors; study of personalities by methods of prediction and matching. Publ: Motivation and visual factors. Address: Dept. of Psychology, Dartmouth College, Hanover, N.H. 03755.

BENDER, PROF. JAMES F(REDERICK), b. Dayton, Ohio, Apr. 6, 05. PSYCHOLOGY. B.S, Columbia, 28, Ph.D, 39. Prof. speech, head dept. & dir. speech & hearing clin, Queens Col, 37-43, chmn. div. lang, lit. & arts, 41-43; dir, Nat. Inst. Human Rels, 44-54; DIR, JAMES F. BENDER & ASSOCS, 54-; PROF. BUS. ADMIN, GRAD. SCH, PACE COL, 66- Lectr, Teachers Col, Columbia; Mt. Holyoke Col; Polytech. Inst. Brooklyn, 28-42; speech clinician, Vanderbilt Clin. & N.Y. Post-Grad. Med. Sch. & Hosp, Columbia, 29-33; mem. faculty, Oregon; N.Y. Univ. Mem. Queen's County Welfare Coun, 40-42; Queen's Speech & Hearing Serv. Center, Inc, 41-; Coun. Except. Children; prof, C.W. Post Col, Long Island, 60-62; dean sch. bus. Adelphi, 62-66. Chmn, Career Planning Bd. Nassau County, N.Y, 66- AAAS; fel. Speech & Hearing Asn; Psychol. Asn. Personality structure of stuttering; speech improvement and correction; speech in college and life. Publ: Personality structure of stuttering; How to talk well; How to sell well. Address: 44 Thornwood Lane, Roslyn Heights, N.Y. 11577.

BENDER, PROF. JOSEPH EARL, b. Altoona, Pa, Sept. 24, 99. SOCIOLOGY. A.B, Mt. St. Mary's Col.(Md), 21; A.M, Catholic Univ, 22, Ph.D, 24; Hopkins, 28. Asst. prof. philos, Mt. St. Mary's Col.(Md), 24-38; ed. adv, civilian conserv. corps, U.S. Dept. Interior, 38-42; field dir, Am. Red Cross, 42-47; assoc. prof. SOCIOL, John Carroll, 47-62, PROF, 62-66; Northern Illinois, 66-67; LOYOLA COL.(QUE), 67- Mem. staff, St. Joseph Col.(Md), 30-32; St. Joseph's Hosp, Baltimore, 31-36. Minority groups in America; relation between moral qualities and intelligence; the Negro in Cleveland, Ohio. Address: Dept. of Sociology, Loyola College, Montreal, Que, Can.

BENDER, DR. W(ILSON) R(ALPH) G(RIGGS), b. Sioux City, Iowa, Jan. 11, 06; m. 31; c. 1. CLINICAL PSYCHOLOGY. A.B, Iowa, 29, M.A, 31, Ph.D.(clin. psychol), 32. Asst. dean men, Iowa, 28-29, asst. psychol, 29-32, res. assoc, 32-34; ed. adv, U.S. War Dept, 34-38, dist. ed. adv, 38-41, Civilian Conserv. Corps asst. adj. gen, 7th Corps Area, 41-42; MGR. personnel res, EMPLOYEE RELS. DEPT, E.I. DU PONT DE NEMOURS & CO, 46-66, BEHAV. SCI, 66- Mem. res. coun, Am. Found. Mgt. Res, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 42-46, Maj. Fel. Psychol. Asn. Personnel evaluation; interpersonal relations; creativity. Publ: Co-auth, The long range follow-up approach in research, E.I. du Pont de Nemours & Co, 66; auth, Dynamics of reaching management, Proc. Indust. Rel. Res. Asn; No room at the top, Mgt. Rev. Address: 105 W. Pembrey Dr, Pembrey, Wilmington, Del. 19803.

BENDIG, DR. A(LBERT) W(ILLIAM), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

BENDIX, PROF. REINHARD, b. Berlin, Germany, Feb. 25, 16. SOCIOLOGY. A.B, Chicago, 41, A.M, 43, Ph.D, 47. Instr, Chicago, 43-46, asst, soc. sci. res. cmt, 42-44; asst. prof. SOCIOL, Colorado, 46-47; CALIFORNIA, BERKELEY, 47-51, assoc. prof, 51-56, PROF, 56-, chmn. dept, 58-61. Fulbright res. grant, Germany, 53-54; Carnegie Corp. reflective year fel, 61-62; Theodor Heuss prof, Free Univ. Berlin, 64-65; vis. prof, St. Catherine's Col, Oxford, 65. Am. Sociol. Asn.(v.pres, 64-65); Int. Sociol. Asn.(v.pres, 66-70). Social theory; social stratification; political and industrial sociology. Publ: Work and authority in industry; Max Weber, an intellectual portrait; Nation-building and citizenship. Address: 410 Barrows Hall, University of California, Berkeley, Calif. 94720.

BEN-DOR, DR. SHMUEL, b. Tel-Aviv, Israel, Sept. 9, 34. ANTHROPOLOGY. B.A, Hebrew Univ, Israel, 57; Columbia, 58; M.A, Minnesota, Minneapolis, 62, Ph.D.(anthrop), 65. Teacher, high sch, Israel, 54-57; Talmud-Torah of Minneapolis, Minn, 58-62; teaching asst. ANTHROP, Minnesota, Minneapolis, 62, teaching assoc, 64-65; vis. lectr, Memorial Univ, 63-64; ASST. PROF, WAYNE STATE, 65- Can. Dept. North. Affairs res. grant, 62-63; Memorial Univ. res. fel, 63-64. Fel. Anthrop. Asn; Ethnol. Soc. Social structure; Arctic, especially the Eskimos; East European Jewish society. Publ: Makkovik: Eskimos and settlers in a Labrador community, Memorial Univ, 66. Address: Dept. of Anthropology, Wayne State University, Detroit, Mich. 48202.

BENEDEK, DR. THERESE F, b. Eger, Hungary, Nov. 9, 92; nat; m. 19; c. 2. PSYCHOANALYSIS. M.D, Budapest, 16. Intern, Budapest City Gen. Hosp, 16-17; res, Epidemic Hosp, 17-18; instr, Univ. Clin. Pediat, Hungary, 18-19; asst, psychiat. clin, Leipzig, 20-25; STAFF MEM, INST. PSYCHOANAL, 36- Psychoanal. Asn; Psychiat. Asn. Publ: Insight and personality adjustment; Psychosexual function in women; co-auth, Psychoanalytic supervision, Grune, 66. Address: Institute for Psychoanalysis, 180 N. Michigan Ave, Chicago, Ill. 60601.

BENEDETTI, PROF. DAVID THEODORE, b. Trinidad, Colo, Feb. 19, 22; m. 43; c. 2. PSYCHOLOGY. B.A, New Mexico, 43, M.A, 47; Ph.D, Colorado, 52. Instr. PSYCHOL, NEW MEXICO, 47-52, asst. prof, 52-57, assoc. prof, 57-67, PROF, 67-, dir. Peace Corps Training Center, 64-67. U.S.A, 43-46. Psychol. Asn. Cognitive processes of humans. Publ: Stratification of words in cognitive organization, J. Gen. Psychol; co-auth, Determiner of the centrality of a trait in impression formation, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, University of New Mexico, Albuquerque, N.Mex. 87106.

BENEDICT, PROF. ARTHUR H(OWARD), b. Walton, N.Y, Jan. 1, 09; m. 35; c. 3. POLITICAL SCIENCE. A.B, Marietta Col, 34; A.M, Syracuse, 35; Ph.D, Ohio State, 48; Western Reserve. Critic teacher, high sch, Ohio, 37-

45; assoc. prof. POLIT. SCI, HIRAM COL, 45-51, PROF, 51-, CHMN. SOC. SCIS. DIV, 59- Polit. Sci. Asn; Soc. Pub. Admin. American national government; Ohio county government. Address: Dept. of Political Science, Hiram College, Hiram, Ohio 44234.

BENEDICT, PROF. MURRAY REED, b. Neillsville, Wis, Jan. 23, 92; m. 33; c. 3. AGRICULTURAL ECONOMICS. B.S, Wisconsin, 16; Illinois, 17-18; Soc. Sci. Res. Coun. fel, Harvard, 28-29, Ricardo Prize fel, 29-30, Ph.D. (econ), 31; LL.D, California, 61. Exten. economist, S.Dak. State Col, 20, prof. agr. econ. & head dept, 21-28; secy, State Farm Bur. Fedn, S.Dak, 21; lectr. econ, Harvard, 30-31; prof. agr. econ. & agr. economist, Giannini Found. & exp. sta, CALIFORNIA, BERKELEY, 31-62, EMER. PROF. AGR. ECON, 62- Rockefeller Found. European study grant, 39; vis. prof, Arizona, 65. Spec. staff consult, Off. Lend-Lease Admin. & For. Econ. Admin, 43-44; consult, Farm Credit Admin, 45-46; Wage Stabilization Bd, 51; dir. farm policy study, Twentieth Century Fund, 51-56. Secy, Soc. Sci. Res. Conf. Pac. Coast, 40. Econ. Asn; Statist. Asn; Agr. Econ. Asn.(v.pres, Farm Econ. Asn, 28, pres, 41). Publ: Farm policies of the United States 1790-1950; Can we solve the farm problem? An analysis of federal aid to agriculture; co-auth, Agricultural commodity programs: two decades of experience. Address: 2470 Cedar St, Berkeley, Calif. 94708.

BENEDICT, PROF. THEODORE W, Speech & Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BENET, PROF. SULA, b. Warsaw, Poland, Sept. 24, 06; nat. ANTHROPOLOGY. Dipl, Warsaw, 35; Ph.D.(anthrop), Columbia, 43. Asst. anthrop, Columbia, 42-43, lectr, 50, 51, head Polish sect, res. in contemporary cultures proj, 47-50; ASSOC. PROF. ANTHROP, HUNTER COL, 48-; PROF. LECTR. HIST. OF FORM, PRATT INST, 51- Soc. Sci. Res. Coun. grant, 48; Inst. Intercultural Studies travel grant, 49. Cultural analyst, Off. War Info, 43-45. Fel. Anthrop. Asn; Ethnol. Soc. Cultural and general anthropology. Publ: Le Chanvre dans les Croyances et les Coutumes Populaire; Song, dance and customs of peasant Poland; collab, Riddles of many lands. Address: Dept. of Anthropology, Hunter College, 695 Park Ave, New York, N.Y. 10021.

BENEWITZ, PROF. MAURICE C(HARLES), b. Hartford, Conn, Nov. 16, 23; m. 49; c. 3. ECONOMICS. A.B, Harvard, 47; fel, Brown, 48-49; Ph.D. (econ), Minnesota, 54. Instr. ECON, Minnesota, 49-54; lectr, Mich. State, 54-55; asst. prof, BERNARD B. BARUCH SCH. BUS. & PUB. ADMIN, CITY COL. NEW YORK, 55-62, assoc. prof, 62-66, PROF, 67-, CHMN. DEPT. ECON. & FINANCE, 64- Consult, State Indust. Union Coun, Ill, 55; Citizens Cmn. City Econ, New York, 62; joint cmt. indust. & labor condition, N.Y. Legis, 63-64. Mem. panel arbitrators, Fed. Mediation & Conciliation Serv; N.Y. State Bd. Mediation; Am. Arbit. Asn; dispute settlement panels, Pub. Employee Rels. Bd, N.Y. State Off. Collective Bargaining, New York. U.S.A, 43-45. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Publ: Migrant and non-migrant occupational distributions & co-auth, Employment effects of a local minimum wage, Indust. & Labor Rels. Rev, 64; Equity and maximum benefits in unemployment insurance, Nat. Tax J. Address: 261 Thompson Shore Rd, Manhasset, N.Y. 11030.

BENFARI, DR. ROBERT, b. New York, N.Y, Nov. 7, 31; m. 54. PSYCHIATRY. A.B, Colby Col, 52; M.B.A, Babson Inst, 54; M.S, Yeshiva, 60, Ph.D.(psychol), 64; S.M. in Hyg, Harvard, 67. Res. psychologist, U.S. Naval Training Device Center, 60-62; res. scientist, life sci. div, Grumman Aircraft Eng. Corp, 62-64; personnel analyst, Am. Tel. & Tel. Co, 64-66; RES. ASSOC. PSYCHOL, SCH. PUB. HEALTH, HARVARD, 66- Lectr, Harvard, 68. Consult, Am. Tel. & Tel. Co, 66-; U.S. Naval Facilities Engr. & Div. Legal Med, Commonwealth of Mass, 68- Psychol. Asn; Pub. Health Asn. Personality assessment; industrial and social psychiatry; group training. Publ: Relationship of classifying and affect manipulation, 66 & Defense and control, 67, Perceptual & Motor Skills; Styles of cognition and conscience development, J. Proj. Tech. & Personality Assessment, 68. Address: 36 Joy Court, Boston, Mass. 02114.

BENFER, DR. ROBERT ALFRED, b. San Antonio, Tex, Mar. 1, 39; m. 62; c. 1. ANTHROPOLOGY. B.A, Texas, 63, M.A, 64, scholarship, 66, Ph.D. (anthrop), 68. ASST. PROF. ANTHROP, WISCONSIN, MILWAUKEE, 67-, faculty res. grant, 68. AAAS; Anthrop. Asn; Asn. Phys. Anthrop. Development and application of statistical models to anthropological data. Publ: A design for the study of archaeological characteristics, Am. Anthropologist, 12/67; An analysis of a prehistoric skeletal population, Casas Grandes, Chihuahua, Mexico, Amerind Found. Inc, 12/68. Address: Dept. of Anthropology, University of Wisconsin, Milwaukee, Wis. 53201.

BENGTSON, DR. VERN L, b. Lindsborg, Kans, May 2, 41; m. 64. SOCIAL PSYCHOLOGY. A.B, N.Park Col, 63, M.A, Chicago, 65, Ph.D.(human develop), 67. Res. coordinator, cross-nat. study aging, Chicago, 65-67; ASST. PROF. SOCIOL. & RES. ASSOC. GERONT. CENTER, SOUTHERN CALIFORNIA, 67- Prin. investr, Southern California, 68- Psychol. Asn; Sociol. Asn; Geront. Soc; Soc. Psychol. Study Soc. Issues. Adult socialization; intergenerational relations; widowhood and retirement, social psychological aspects. Publ: Occupational and cultural differences in adaptation to retirement, The Gerontologist, 67. Address: Dept. of Sociology & Anthropology, University of Southern California, Los Angeles, Calif. 90007.

BENHAM, DR. FRANK G(ARDNER), b. Wichita Falls, Tex, Jan. 16, 28; m. 50. PSYCHOLOGY. B.S.Ed, Ohio, 52, M.A, 53; U.S. Pub. Health Serv. fel, 53-55; Ph.D.(psychol), Rochester, 61. Psychologist, Dallas Child Guid. Clin, Tex, 55-57; Monroe County Schs, N.Y, 58-60; Manatee County Schs, Fla, 60-61; INDUST. MKT. ANALYST, INT. BUS. MACH. CORP, 61- State coordinator, Ed. Serv, 62- U.S.A, 46-49, Sgt. AAAS; Psychol. Asn. Publ: Co-auth, Adjustment to visual disability in adolescence; auth, Method for processing test scores with minimal punched card equipment, Fla. J. Ed. Res; co-auth, Stimulus value of the Rorschach inkblots as perceived by children, J. Proj. Tech. Address: 17649 Prince Edward Dr, Olney, Md. 20832.

BENHAM, THOMAS WALTER, b. New York, N.Y, Jan. 28, 20; m. 44; c. 5. MASS COMMUNICATION. B.A, Fordham, 41. Res. analyst, Pub. Opinion Index Indust, OPINION RES. CORP, 40-42, 46-49, assoc. ed, 49-53, surv. dir, 53-55, res. dir, 55-58, V.PRES, 58- Chmn. bd, Mkt. Dynamics, Inc, 62-U.S.A.A.F, 42-46, 1st Lt. Asn. Pub. Opinion Res. Specialist in communications; investor relations; television effectiveness; political studies. Address: Opinion Research Corp, Research Park, Princeton, N.J. 08540.

BENIGNUS, DR. VERNON A, b. Spring, Tex, Sept. 14, 36; m. 59; c. 2. PHYSIOLOGICAL PSYCHOLOGY. B.A.S, Houston, 60, M.A, 62, Ph.D.(psychol), 67. Eng. technician, indust. instruments, Tex. Instruments, Inc, Houston, 59-60; electronics engr, Houston State Psychiat. Inst, 60-61; res. asst. neuropsychol, Houston, 61-66, instr. exp. statist, 61-67; ASST. PROF. PSYCHOL. & DIR. RES. COMPUT CENTER, MED. BR, TEXAS, 67- AAAS; Inst. Elec. & Electronics Eng. Study of amygdala—olfactory relationships using computerized biological signal processing and regression analysis. Publ: Co-auth, Analysis of 30-50 cycle electrical activity in the amygdala under different behavioral conditions, Southwest. Psychol. Asn, 62 & 40 cycle electrical activity in the brain of the cat, Cong. Psychiat, Madrid, Spain, 66. Address: University of Texas Medical Branch, Research Computation Center, Galveston, Tex. 77550.

BENIMOFF, PROF. MURRAY, Psychol, see 10th ed, Soc. & Behav. Vols.

BENISHAY, PROF. HASKEL, b. Jerusalem, Palestine, July 15, 28; m. 59; c. 2. ECONOMICS, STATISTICS. M.A, Chicago, 55, fels. & scholars, 56-59, Ph.D, 60. Lectr. econ, Chicago, 55-56, statist, 58-59; asst. prof. econ. & finance, Roosevelt, 59-62, assoc. prof, 62-64; finance & managerial econ, State Univ. N.Y. Buffalo, 64-67; PROF. MANAGERIAL ECON, NORTHWESTERN, 67- Ford Found. faculty res. fel, Northwestern & Chicago, 66-67. Consult, Chicago, 59-60; World Bank, 65- Econ. Asn; Economet. Soc; Statist. Asn; Finance Asn; Mkt. Asn. Money; finance; statistical theory; stochastic processes; labor force. Publ: Variability in earnings price ratios, Am. Econ. Rev, 3/62; A stochastic model of credit sales debt, J. Am. Statist. Asn, 12/66; Parameters and relations of stochastically lagged and disaggregative time series, Econometrica, winter 68. Address: Graduate School of Business, Northwestern University, Evanston, Ill. 60201.

BENÍTEZ, PRES. JAIME, b. Vieques, P.R, Oct. 29, 08; m. 41; c. 3. POLITICAL SCIENCE. LL.B, Georgetown, 30, LL.M, 31; M.A, Chicago, 39; LL.D, Polytech. Inst. P.R, 50, N.Y. Univ, 60, Fairleigh Dickinson, 61, Cath. Univ. P.R, 65. Instr. soc. sci, PUERTO RICO, 31-41, assoc. prof, 41-42, chancellor, 42-66, PRES, 66- U.S. del, Conf. Univs, Utrecht, Netherlands, 48; mem. U.S. Nat. Cmn, UNESCO, 50-56, exec. cmt, 51-56; pres. Cmt. Bill of Rights, P.R. Constitutional Convention, 51. Address: Office of the President, University of Puerto Rico, Box AD, San Juan, P.R. 00931.

BENJAMIN, DR. LORNA S(MITH), b. Rochester, N.Y, Jan. 7, 34; m. 60. PSYCHOLOGY. B.A, Oberlin Col, 55; M.A, Wisconsin, 58, Nat. Inst. Ment. Health fel, 58-60, Ph.D.(psychol), 60. Fel. psychol, univ. hosps, WISCONSIN, 60-62, res. assoc, psychiat. inst, 62-66, ASST. PROF. PSYCHIAT, 66-Ed, Wis. Psychiat. Inst. Newsletter, 62- Psychol. Asn; Soc. Res. Child Develop. Child development; research methodology; use of statistics and computers; psychopathology. Publ: Special Latin square for the use of each subject as his own control, Psychometrika, 12/65; Facts and artifacts in the use of covariance to undo the law of initial values, Psychophysiology, 10/67; Beginning of thumbsucking, Child Develop, 12/67. Address: Dept. of Psychiatry, University of Wisconsin, 427 Lorch St, Madison, Wis. 53706.

BENJAMIN, DR. ROGER, b. Lansing, Mich, Apr. 18, 42; m. 62; c. 1. POLITICAL SCIENCE, COMPARATIVE POLITICS. B.A, Mich. State, 63; Ph.D. (polit. sci), Washington (St. Louis), 67. ASST. PROF. POLIT. SCI, MINNESOTA, MINNEAPOLIS, 66- Nat. Sci. Found. grant, 66-67; Ford Found. grant, 67-68. AAAS; Polit. Sci. Asn. Research methodology. Publ: Co-auth, Communism and economic development, Am. Polit. Sci. Rev, 3/68. Address: Dept. of Political Science, University of Minnesota, Minneapolis, Minn. 55455.

BENJAMINS, DR. JAMES, Psychol, see 10th ed, Soc. & Behav. Vols.

BENNE, PROF. KENNETH D(EAN), Human Rels, Ed, see 10th ed, Soc. & Behav. Vols.

BENNER, DR. CLAUDE L, b. Adrian, Mich, June 27, 92; m. 24; c. 3. ECONOMICS. A.B, Michigan, 20, M.A, 21; Ph.D, Brookings Inst, 25. Asst. prof. econ, Iowa State Col, 21-23; mem. staff, Brookings Inst, 23-25; prof. econ, Delaware, 25-28; economist, CONTINENTAL AM. LIFE INS. CO, 28-30, v.pres. & dir, 30-49, pres, 49-61, chmn. bd, 61-63, DIR, 63- Lectr, Wharton Sch. Finance, Pennsylvania. Finance Asn. Money and bank investments; insurance. Publ: Federal intermediate credit system; What price cheap money; co-auth, Ten years of intermediate credits. Address: Continental American Life Insurance Co, Rodney Square, Wilmington, Del. 19899.

BENNER, PROF. LORRAINE W(INEOW), b. Schenectady, N.Y, July 30, 06. PSYCHOLOGY. B.S, Boston, 41; M.A, Columbia, 46. Instr. ed, Wheelock Col, 43-46; asst. prof. ed. & child study, Smith Col, 46-51; PSYCHOL. & ED, MT. HOLYOKE COL, 51-55, ASSOC. PROF, 56-, DIR. GORSE CHILD STUDY CENTER, 51- Fulbright grant & lectr, Ochanomizu Women's Univ, Japan, 58; U.S-India Women's Col. exchange prog. lectr, Women's Christian Col, Madras, India, 64-65. Summer mem. faculty, Vassar Col, 50-57. Nat. consult, Proj. Head Start, 65- Fel. Soc. Res. Child Develop. Publ: Ed, Portfolio for kindergarten teachers. Address: 20 Jewett Lane, South Hadley, Mass. 01075.

BENNER, PROF. VELMA, b. Grove City, Ill; m. 23; c. 1. GEOGRAPHY. B.S, Washington (St. Louis), 47, A.M, 50. Instr. GEOG, Washington (St. Louis), 50-53, univ. col, 53-54, lectr, 54-59, asst. prof, 59-64; ASSOC. PROF. MERAMEC COMMUNITY COL, 64- Mem, Int. Geog. Union; Appl. Geog. Conf, R.I, summer, 66. AAAS; Asn. Am. Geog; Geog. Soc; Nat. Coun. Geog. Ed. Economic and urban geography. Publ: Economic and urban geography of the Unites States, W.C. Brown, 58; History of Webster Groves, Missouri, Webster News Times, 50. Address: Dept. of Geography, Meramec Community College, 959 S. Geyer Rd, Kirkwood, Mo. 63122.

BENNETT, DR. BARBARA A, Psychol, see 10th ed, Soc. & Behav. Vols.

BENNETT, DR. CHARLES FRANKLIN, JR, Zoogeog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BENNETT, DR. CLAUDE FRASER, b. Omaha, Nebr, Dec. 6, 36; m. 58; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.S, Colorado State, 58; Fulbright fel, Adelaide, 59-60; Ford Found. fel. & M.S, Cornell, 61, Ph.D.(rural sociol), 64. Instr. rural sociol, Kentucky, 64-65; ASST. PROF. SOCIOL, ARIZONA, 65- Planned Parenthood-World Pop. Soc. Serv. res. grant-in-aid, 67. Sociol. Asn; Rural Sociol. Soc. Occupational mobility; relationship between attitude consistency and interpersonal agreement; earliness of adoption of a recommended contraceptive. Publ: Mobility from full-time to part-time farming, Rural Sociol, 6/67. Address: Dept. of Sociology, University of Arizona, Tucson, Ariz. 85721.

BENNETT, DR. CLAYTON L(EON), b. Bladen, Nebr, Dec. 13, 11; m. 45; c. 3. SPEECH PATHOLOGY, PSYCHOLOGY. A.B, Southern California, 48, A.M, 49, Ph.D.(speech path), 52. Asst, speech & hearing clin, Southern California, 48-50; assoc. prof. & head clin, Ala. Polytech, 50-52; COORDINATOR SPEC. ED, DEPT. ED, SAN DIEGO COUNTY, 52-, spec. consult, coop. res. proj, 65-67. Assoc. dir. superior student proj, N.Cent. Asn. Cols. & Sec. Schs, 60-61; summers, vis. lectr, Whittier Col, 56, Pepperdine Col, 57, vis. assoc, California, Los Angeles, 58. U.S.N, 42-45. AAAS; Psychol. Asn; Speech & Hearing Asn. Electroencephalography in relation to personality and behavior; learning theory and behavior; functional disorders of speech; guidance and motivation of superior students; learning disability; cigarette smoking and health. Publ: Educating the gifted in San Diego County, C.C. Thomas, 67; Communication problems in the schools, Appleton, 68; co-auth, A comparative study of two first-grade language arts programs, Reading Res. Quart, fall 66. Address: 8818 Cliffridge Ave, La Jolla, Calif. 92037.

BENNETT, DR. CORWIN A(LDEN), b. Des Moines, Iowa, May 20, 29; m. 50; c. 3. PSYCHOLOGY. B.S, Iowa State Col, 50; M.A, Nebraska, 51, Ph.D. (exp. psychol), 54. Asst. psychol, Nebraska, 50-53; res. psychologist, Int. Bus. Mach. Corp, 54-66, mgr. human factors, 58-66; lectr. PSYCHOL, RENSSELAER POLYTECH. INST, 66-67, ASSOC. PROF, 67- Am. Psychol. Asn; Human Factors Soc; Brit. Ergonomics Res. Soc. Research methodology; operator-equipment system design; human judgment. Publ: Application of temporal correlation techniques in psychology; Sampled data tracking; co-auth, Image quality and target recognition, Human Factors, 67. Address: Van Winkle Dr, Rensselaer, N.Y. 12144.

BENNETT, DR. DAPHNE M(ARY) NICHOLSON, b. Kent, Eng, Aug. 17, 19; nat; m. 45. PSYCHOLOGY, SPEECH PATHOLOGY. B.A, London, 42, dipl, 48; univ. scholars, Southern California, 52-55, M.A, 53, Audiol. Found. grant, 54-55, Ph.D.(speech path, psychol), 55; summer, Claremont Cols, 53. Sr. teacher, high schs, Eng, 42-46; lectr. speech in charge prog, Dudley Col, inst. ed, Birmingham, 48-50; Fulbright lectr, Kansas State, 50-51; asst, Southern California, 52-55; private practice, 55-60; PROF. SPEECH & COMMUN, MT. ST. MARY'S COL.(CALIF), 60- Guest lectr, south. Calif. & Eng. cols, 55- Psychol. Asn; Speech & Hearing Asn. Potentials and limits of psychotherapeutic approaches in random groups; preventive mental health; sensitivity. Publ: Therapy with parents of handicapped children, Except. Children; Home teaching of young deaf children, J. Speech & Hearing Disorders; co-auth, Initial communication chart for aphasics, J. Asn. Ment. & Phys. Rehab. Address: 1167 W. 37th Place, Los Angeles, Calif. 90007.

BENNETT, DR. DON C, b. Salt Lake City, Utah, June 28, 25; m. 48; c. 4. GEOGRAPHY. A.B, Utah, 50; M.A, Syracuse, 51, Ph.D.(geog), 57. Instr. GEOG, Syracuse, 56-57, asst. prof, 57-59; INDIANA, 59-63, ASSOC. PROF, 63- Nat. Sci. Found. res. grant, 62-; Fulbright-Hays res. grant, Philippines, 63-64. U.S.A, 43-46. Asn. Am. Geog; Am. Geog. Soc; Regional Sci. Asn; Inst. Planners; Pop. Asn. Urban form, function, density and growth; Southeast Asia. Address: Dept. of Geography, Indiana University, Bloomington, Ind. 47401.

BENNETT, DR. EDWARD M(ARTIN), Psychol, see 11th ed, Phys. & Biol. Vols.

BENNETT, DR. GEORGE KETTNER, b. New York, N.Y, Feb. 26, 04; m; c. 2. PSYCHOLOGY. B.A, Yale, 28, Ph.D.(psychol), 35. Psychometrist, Blythewood Clin, Conn, 31-34; head dept. tests & testing serv, PSYCHOL. CORP, 36-47, dir. war res. div, 42-45, PRES, 47- V.chmn. div. anthrop. & psychol, Nat. Res. Coun, 47-48. With Off. Sci. Res. & Develop, 42-45. AAAS; fel. Psychol. Asn; Psychomet. Soc. Design of automatic communication devices; construction of aptitude tests; evaluation of tests of scientific aptitude. Publ: Tests of mechanical comprehension; Differential aptitude tests; Short employment tests. Address: Psychological Corp, 304 E. 45th St, New York, N.Y. 10017.

BENNETT, PROF. HOWARD F(RANKLIN), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BENNETT, DR. IVEN, Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BENNETT, PROF. JAMES WAYLAND, b. Loraine, Tex, Oct. 13, 23; m. 50; c. 1. AGRICULTURAL ECONOMICS. B.S, Tex. Tech. Col, 48; M.S, La. State, 51, Ph.D.(agr. econ), 55. Asst. prof. AGR. ECON, Tex. Tech. Col, 48-50; res. asst, La. State, 50-53; asst. prof, TEX. TECH. COL, 53-54, assoc. prof, 54-56, PROF, 56-, head dept, 56-63, ASSOC. DEAN, SCH. AGR, 63- Consult, U.S. Feed Grains Coun, 61-62; mem, Common Mkt. Study Team, 63. U.S.A.A.F, 43-46, Sgt. Agr. Econ. Asn. Agricultural commodity marketing; resource economics; agricultural policy and credit. Address: School of Agriculture, Texas Technological College, Lubbock, Tex. 79409.

BENNETT, DR. JOHN, JR, b. Providence, R.I, Mar. 9, 25; m. 49; c. 2. CLINICAL PSYCHOLOGY. B.A, Brown, 49; M.A, Boston, 51, Ph.D.(clin. psychol), 57. Psychol. consult. & v.pres, Walter V.Clarke Assoc, Inc, R.I, 57-61; staff psychologist, Rohrer, Hibler & Replogle, N.Y, 61-64, Boston, 64-67; MGR. MGT. APPRAISAL & DEVELOP. SERV, ATLANTIC RICHFIELD CO, 67- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. & clin. hypnosis, Am. Bd. Exam. Psychol. Hypnosis. Med. Dept. 43-46, Med.Serv.C, 52-57, Res, 57-, Capt. Psychol. Asn. Self-concept theory; psychodiagnosis; individual and group psychotherapy; application of clinical psychology to problems of business and industry. Address: Management Appraisal & Development Services, Atlantic Richfield Co, 260 S. Broad St, Philadelphia, Pa. 19101.

BENNETT, JOHN B(ENJAMIN), b. Columbus, Ohio, Nov. 6, 96; m. 24. ECONOMICS. B.S, Cornell, 21. Exten. ed, Kans. State Agr. Col, 21-23; asst. tariff economist, U.S. Tariff Cmn, 23-24; agr. economist, U.S. Chamber Commerce, 24-34; secy. land planning cmt, Nat. Resources Bd, 34; chief land policy unit, Resettlement Admin. & Farm Security Admin, 35-37; div. land econ, U.S. Dept. Agr, 37-39; supvr. br. planning, use & protection, gen. land off, U.S. Dept. Interior, 39-41, dir. land classification, off. land utilization, 43-50, chief prog. develop, 50-53, asst. dir. tech. rev. staff, off. secy, 53-57, dir, 57-61, staff asst. resources prog, 61-65; consult, Bur. Land Mgt, 65-66; RETIRED. Dir. land sect, Nat. Resources Planning Bd, 41-43. U.S. del, Anglo-Am. Caribbean Cmn. Land Tenure Conf, P.R, 44. Land economics, especially public land phases. Publ: Land management in the department of the interior; ed, Report of the land planning committee and Public works and rural land use. Address: 430 Gregory Lane, Boulder, Colo. 80302.

BENNETT, DR. JOHN D(AVID), b. Findlay, Ohio, Oct. 23, 32. ECONOMICS. B.A, Ohio Wesleyan, 54; Ph.D.(econ), Syracuse, 67. Instr. FORESTRY ECON, STATE UNIV. N.Y. COL. FORESTRY, SYRACUSE, 60-65, ASST. PROF, 65- U.S.A, 54-56. Econ. Asn. Economic theory; history of economic thought. Address: Dept. of Forestry Economics, State University of New York College of Forestry at Syracuse University, Syracuse, N.Y. 13210.

BENNETT, DR. JOHN F(RANCIS), Hist. of Sci, Evolution, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BENNETT, DR. JOHN T(OSCAN), b. Madison, Wis, Jan. 21, 29; m. 53; c. 2. AGRICULTURAL ECONOMICS. A.B, Harvard, 50; M.S, California, 52, Ph.D 58. Asst, California, 50-55; for. serv. officer, v.consul & secy. diplomatic serv, U.S. Dept. State, 55-61, consul, Netherlands Antilles, 61-63, first secy, U.S. Embassy, Saigon, Vietnam, 63-65, chief econ. anal. br, off. develop. planning, Far East Bur, U.S. AGENCY. INT. DEVELOP, 65-67, DEP. DIR. OFF. ECON. POLICY, VIETNAM BUR, 67- Prof. lectr, American Univ, 65- Econ. Asn; Economet. Soc. Agricultural marketing; economic development of backward areas; economic statistics. Address: 3801 Towanda Rd, Alexandria, Va. 22303.

BENNETT, PROF. JOHN WILLIAM, b. Milwaukee, Wis, July 18, 15; m. 40; c. 2. ANTHROPOLOGY. B.A, Beloit Col, 37; Lichtstern fel, Chicago, 38-41, M.A, 41, Ph.D.(anthrop), 46. Dir. archaeol. lab, dept. anthrop, Chicago, 39-40; pub. opinion analyst, Off. War Info, 41-42; asst. prof. ANTHROP, Ohio State, 45-51, assoc. prof, 51-59; PROF, WASHINGTON (ST. LOUIS), 59- Grants, Nat. Sci. Found, 62-65 & Agr. Develop. Coun, 66-67. Mem. expeds, Mex. & Southwest, 33-37; with bur. agr. econ, U.S. Dept. Agr; chief pub. opinion & sociol. res. div, Japan Occup, 49-51. AAAS; Anthrop. Asn; Sociol. Asn; Asn. Asian Studies. Ecology; economic development; intercultural relations; Japanese society. Publ: Co-auth, In search of identity: Japanese scholars in America and Japan, 58 & Sternalism in the Japanese economy, 63, Minnesota; Hutterian brethren: the agricultural economy and social organization of communal people, Stanford, 67. Address: Dept. of Sociology & Anthropology, Washington University, St. Louis, Mo. 63130.

BENNETT, DR. KENNETH A, Phys. Anthrop, Evolutionary Genetics, see Suppl. V to 11th ed, Phys. & Biol. Vols.

BENNETT, PROF. KENNETH R(OBERT), b. Sheffield, Ill, May 19, 11; m. 39; c. 3. AGRICULTURAL ECONOMICS. B.S, Illinois, 36; Ph.D, Cornell, 41. Instr. agr. prices & statist, Cornell, 41-42; PROF. STATIST, PA. STATE & STATISTICIAN, EXP. STA, 49- Farm Econ. Asn. Prices of farm products; economic cycles; agricultural sampling methods. Publ: Co-auth, Statistical methods; auth, Survey and account methods of estimating costs of milk production, Pa. Bull; Factors that affect prices of feed-stuffs in New York State, Cornell Memoir. Address: Weaver Hall, Pennsylvania State University, University Park, Pa. 16802.

BENNETT, LAWRENCE A(LLEN), b. Selma, Calif, Jan. 4, 23; m. 48; c. 2. CLINICAL PSYCHOLOGY. B.A, Fresno State Col, 49; M.A, Claremont Cols, 54. Psychol. extern, Fresno County Child Guid. Clin, 47-49; psychometrist, Vet. Admin. Guid. Center, Fresno, Calif, 49; intern psychol, Calif. Instn. Men, Reception Guid. Center, Chino, 53-54, voc. counsr, 54-55; clin. psychologist, Deuel Voc. Instn, Tracy, 55-57; supv. psychologist, Calif. Med. Facility, Vacaville, 57-60; supvr. clin. psychol, CALIF. DEPT. CORRECTIONS, SACRAMENTO, 60-67, CHIEF RES. DIV, 67- Med.C, 43-45, 50-51, Sgt. Psychol. Asn; Asn. Correctional Psychol. Objective and projective personality testing; juvenile delinquency; group psychotherapy; evaluation of organic brain damage; assessment of treatability; composition of therapy groups. Publ: Perpetuation of delinquency through language usage, J. Criminal Law, Criminol. & Police Sci; co-auth, Evaluation of modified administration of the California psychological inventory & Changes in direction of hostility related to incarceration and treatment, J. Clin. Psychol. Address: 908 Oak Ave, Davis, Calif. 95616.

BENNETT, DR. LAWTON E, b. LaGrande, Ore, Apr. 21, 31; m. 59; c. 2. POLITICAL SCIENCE. B.A, Oregon, 53, M.A, 61; Ph.D.(polit. sci), North Carolina, Chapel Hill, 66. Instr. POLIT, N.C. STATE, 63-66, ASST. PROF, 66- U.S.A, 53-55, Res, 55-56, Sgt. Polit. Sci. Asn. Public opinion; local government and politics; the politics of education; minority group politics. Address: Dept. of Politics, North Carolina State University, Raleigh, N.C. 27607.

BENNETT, DR. MARGARET E(LAINE), b. Milford, Mich. PSYCHOLOGY. A.B, Stanford, 18, M.A, 19, Ed.D.(personnel work), 37. Instr, citizenship course, Stanford, 23-24; instr. soc. sci, Pasadena City Col, 24-26; counsr, 26-28; dir. guid, city schs, Calif, 28-48; psychologist, Pasadena City Col, 48-58; PERSONNEL WORKER & WRITER, 58- Vis. assoc. prof, teachers col, Columbia, 40-41; lectr, Inter-Am. Univ. P.R, 66. Consult, U.S. High Cmnr. for Germany, 51-53; voc. consult, Soc. Security Admin, 62- Award, Nat. Voc. Guid. Asn, 61. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol.

Asn; Personnel & Guid. Asn. Evaluation of personnel work; experimental research in guidance through groups and orientation. Publ: Guidance and counseling in groups, McGraw, 63; College and life; Group strategies in vocational guidance, In: Man in a world at work, Houghton, 64. Address: P.O. Box 1292, Burlingame, Calif. 94010.

BENNETT, DEAN MARY WOODS, b. Oakland, Calif, Apr. 5, 09. PSYCHOLOGY. A.B, California, 31, Ph.D.(psychol), 37. Lab. asst, schs, Wash, 31-32; asst. child develop, MILLS COL, 35-36, instr, 36-38, asst. prof, 38-43, assoc. prof, 43-53, PROF. PSYCHOL. & CHILD DEVELOP. & DEAN FACULTY, 53- Fel. Soc. Res. Child Develop. Applications of psychology to teaching of young children, prospective teachers and parents; factors influencing performance on group and individual tests of intelligence. Publ: Rate of work, Genetics Psychol. Monogr; Social facilitation, J. Ed. Psychol. Address: Dept. of Psychology, Mills College, Oakland, Calif. 94613.

BENNETT, PROF. RALPH J, b. Litchfield, Ill, May 29, 32; m. 59; c. 1. ECONOMICS, ACCOUNTING. B.S, St. Louis, 54, M.A, 60; B.A, Denver, 57; M.B.A, Western Michigan, 66. Jr. acct, Standard Oil Co, Ind, 57-58; teacher, high sch, Mo, 58-59; instr. ECON. & ACCT, Donnelly Jr. Col, 59-60; from instr. to asst. prof, Aquinas Col, 60-63; asst. prof, St. Louis Jr. Col, 63-64; ASSOC. PROF, AQUINAS, 64- U.S.A.F, 54-57, Res, 58-, Maj. Econ. Asn; Am. Acct. Asn. The agricultural problem in the United States; the role of economics on the high school level. Publ: The life of an economic system in balance, Clearing House, 66; The teaching of economics on the high school level, Balance Sheet, 67. Address: Dept. of Economics & Accounting, Aquinas College, Grand Rapids, Mich. 49506.

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BENNETT, DR. RUTH, b. New York, N.Y, July 16, 33; m. 63; c. 2. SOCIOLOGY. A.B, Brooklyn Col, 55; Ph.D.(sociol), Columbia, 62. Res. asst. med. sociol, med. col, Cornell, 53-56; res. scientist, N.Y. STATE DEPT. MENT. HYG, 57-61, sr. res. scientist, 62-67, ASSOC. RES. SCIENTIST, 67-, fel, 66-67. Prin. investr, U.S. Pub. Health Serv. res. grants, 58-65; assoc, Columbia, 58-66, lectr, col. physicians & surgeons, 59-62, assoc. psychiat, 67-, adj. assoc. prof. ed, 68-; lectr, Center Instr. Care Aged, 64- Fel. Geront. Soc; Sociol. Asn; Soc. Study Social Probs. Social adjustment of the institutionalized aged; residential settings for the aged; resocialization of the aged mentally ill. Publ: The meaning of institutional life, The Gerontologist, 63; co-auth, Institutional totality and criteria of social adjustment, J. Soc. Issues, 65; Conformity, persuasibility and counternormative persuasion, Sociometry, 67. Address: N.Y. State Dept. of Mental Hygiene, 722 W. 168th St, New York, N.Y. 10032.

BENNETT, SAMUEL V(OITOVICH), b. Apr. 23, 11; nat; m. 42; c. 2. PSYCHOLOGY. B.A, Wittenberg Col, 39; Wittenberg scholar, Ohio State, 38, Lumley fel, 39, M.A, 40. Res. assoc, cmt. selection & training aircraft pilots, Nat. Res. Coun, 42-45; COMMUNITY PROG. DIR, W.E. UPJOHN INST. EMPLOY. RES, 45- Psychol. Asn; Statist. Asn; Soc. Pub. Admin. Public administration and welfare; economics. Publ: Auth, Unemployment and relief & co-auth, Full employment in your community, Pub. Admin. Serv. Address: 2606 Russet Dr, Kalamazoo, Mich. 49001.

BENNETT, PROF. WALTER H(ARTWELL), b. Pittsylvania Co, Va, Sept. 6, 07; m. 39; c. 2. POLITICAL SCIENCE. A.B, Richmond, 30, A.M, Duke, 35, Ph.D, 40. Asst. prof. econ, Mississippi, 41-42; instr. POLIT. SCI, ALABAMA, 38-41, 42-43, asst. prof, 43-46, assoc. prof, 46-47, PROF, 47- News & notes ed, J. Polit, 42-47; Am. Polit. Sci. Rev, 50-52. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Early American theories of federalism; twentieth century theories of the nature of the union. Publ: American theories of federalism, Univ. Alabama, 64. Address: 8 Beech Hills, Tuscaloosa, Ala. 35401.

BENNETT, DR. WILLIAM B(ATCHELDER), b. Hillsboro, N.H, Jan. 4, 14; m. 44; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.S, New Hampshire, 35; fel, La. State, 35-36, M.A, 36, Ph.D.(econ. & bus. admin), 41; scholar, Harvard, 39; LL.B, George Washington 53. Claim adjustor, Casualty Ins, 36-38; instr. econ. & bus. law, Agr. & Mech. Col, Tex, 38; asst, La. State, 38-41; statistician, Off. Price Admin, 41; economist, War Assets Admin, 45-48, requirements specialist, Munitions Bd, 48, procurement specialist, 49-51; chief procurement & prod. div, Off. Asst. Secy. Defense, Int. Security Affairs, 51-59; for. excess property officer, BUS. & DEFENSE SERV. ADMIN, U.S. DEPT. COMMERCE, 59, dir. int. activities, 59-62, asst. to dep. adminstr, 62, acting dir. off. mkt. & distribution, 62-63, dep. asst. adminstr, 63-65, dir. bus. projs. staff, 65-66, DIR. FOOD INDUSTS. DIV, 66- Founding dir. & secy-treas, Teke Scholar. Fund, 58-60; mem. selection bd, U.S. Dept. State, 65; appeals bd, U.S. Dept. Commerce, 65-U.S.A, 41-45, Col. Econ. Asn; Bar. Asn. International affairs; finance and investments; business management; commercial applications of the preservation of food by ionizing radiation. Publ: Industry views concerning military procurement methods; The American patent system. Address: 3318 Rose Lane, Falls Church, Va. 22042.

BENNETT, DR. WILLIAM BLODGETT, b. Schenectady, N.Y, July 6, 36; m. 60; c. 2. ECONOMICS. A.B, Princeton, 58; M.A, Rochester, 61, Ph.D. (econ), 65. Instr. ECON, Hobart & William Smith Cols, 61-64, ASST. PROF, 64-65; UNION COL.(N.Y), 65- Economet. Soc; Econ. Asn. Economic studies of consumer behavior. Publ: Cross-section studies of the consumption of automobiles in the United States, Am. Econ. Rev, 9/67. Address: Dept. of Economics, Union College, Schenectady, N.Y. 12308.

BENNETT, PROF. WILLIAM R(ALBERT), b. Evergreen, Ala, July 2, 18. ECONOMICS, MARKETING. A.B, Birmingham-South. Col, 39; M.B.A, La. State, 47; Ph.D, Illinois, 51. Asst. prof. MKT, ALABAMA, 50-53, from assoc. prof. to PROF, 53-, DIR. GRAD. DIV, SCH. COMMERCE & BUS. ADMIN, 63- Econ. Asn; Mkt. Asn. Meat marketing; frozen foods industry in Louisiana. Address: Dept. of Marketing, University of Alabama School of Commerce & Business Administration, University, Ala. 35486.

BENNETT, DR. WILLIAM S, JR, b. Cincinnati, Ohio, Mar. 17, 38; m. 60; c. 3. SOCIOLOGY. B.A, Denison, 60; M.A, Missouri, 62, Ph.D.(sociol), 65. Instr. soc. psychol, Toledo, 64-65; ASST. PROF. SOC. ED, MINNESOTA, MINNEAPOLIS, 65- Sociol. Asn. Adolescent aspiration; motivation, education and social change; new careers for poor program; new roles in instructional process. Publ: Aspiration of Negro and white high school students, 63 & co-auth, Class and family influence on student aspiration, 64, Soc. Forces; auth, Educational change and economic development, Sociol. Ed, spring 67. Address: Dept. of Sociology, University of Minnesota, Minneapolis, Minn. 55400.

BENNETT, PROF. WILLIAM W(HIPPLE), Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

BENNION, E(DWARD) G(RAHAM), Econ, see 10th ed, Soc. & Behav. Vols.

BENNIS, DR. WARREN G, b. New York, N.Y, Mar. 8, 25; m. 62. SOCIAL PSYCHOLOGY. A.B, Antioch Col, 51; Hicks fel, Mass. Inst. Tech, 52, Ph.D. (econ), 55; Brit. Union summer fel, London Sch. Econ, 52. Instr. soc. psychol, Mass. Inst. Tech, 53-55, asst. prof. 55-59, assoc. prof. indust. mgt, 59-63, prof. orgn. & mgt. psychol, 63-67; PROVOST SOC. SCI. & ADMIN, STATE UNIV. N.Y. BUFFALO, 67- Vis. lectr, Boston, 53-, asst. prof, 56-59; vis. lectr, Harvard, 58-59; vis. prof, mgt. develop. inst, Lausanne, 61-62. Consult, Polaroid Corp, Aluminum Co. Can. & Am. Mgt. Asn, 63-; U.S. Dept. State & Nat. Inst. Ment. Health, 66- U.S.A, 43-47, 1st Lt. AAAS; fel. Sociol. Asn; fel. Psychol. Asn. Small group behavior; social system of the institution of science; organizational change; leadership; educational leadership; utilization of social science knowledge; new forms of university organization. Publ: Changing organizations, McGraw, 66; co-auth, The temporary society, Harper, 68; co-auth, The planning of change, Holt, 2nd ed, 68. Address: State University of New York, Buffalo, N.Y. 14214.

BENNSKY, GEORGE M(ICHAEL), b. Hickory, N.C, Dec. 22, 23; m. 60. ECONOMICS, INTERNATIONAL AFFAIRS. B.A, George Washington, 49; M.A, Michigan, 50. Asst, exchange restrictions dept, Int. Monetary Fund, 50-51; economist, Brit. Commonwealth & Mid. East div, off. int. finance, U.S. Dept. Treas, 51-52, 56, asst. rep, Mid. East, 52-55, rep, 55-56; economist, for. serv, Off. Near East Affairs, U.S. DEPT. STATE, 56-60, consul & econ. officer, Am. Consulate Gen, Madras, India, 60-62, dep. prin. officer & chief polit. sect, 62-64, chief econ. affairs, Off. Near East Affairs, 64-66, sr. polit. econ. officer, U.A.R. Country Directorate, 66-67, student, Nat. War Col, 67-68, CHIEF ECON/COMMERCIAL SECT. & ASST. DIR, AGENCY INT. DEVELOP. MISSION, AM. EMBASSY, LIMA, 68- U.S.A.A.F, 43-46. International finance and economics; political and economic policy; development of underdeveloped countries, especially those in Middle East, Africa and South Asia; international petroleum developments and foreign private investment. Address: Agency for International Development, American Embassy, Lima, Peru.

BENNYHOFF, DR. J(AMES) A(LLAN), b. Sacramento, Calif, Jan. 3, 26; div. ANTHROPOLOGY. A.B, California, Berkeley, 48, Ph.D.(anthrop), 61. Teaching asst. anthrop, California, Berkeley, 50-52, res. archaeologist, archaeol. surv, 52-55, bibliographer, 55-57, res. asst. anthrop, 57-58; instr, Yale, 58-60; Nat. Sci. Found. fel. for anal. of archaeol. collection from Cuicuilco, Mex, 61; res. archaeologist, California, Berkeley, 65; res. assoc. ANTHROP, Rochester, 62-66; ACTING ASST. PROF, CALIFORNIA, BERKELEY, 67- U.S.N.R, 43-46. Anthrop. Asn; Soc. Am. Archaeol; Ethnol. Soc. Cultural change; comparative study of civilizations; archaeology of Nuclear America, especially Mesoamerica; archaeology and ethnography of western North America, especially California; religion of Mesoamerica; economic anthropology. Publ: California fish spears and harpoons, Univ. Calif. Anthrop. Records, 50; The Viru Valley sequence: a critical review, 52 & co-auth, A long architectural sequence at Teotihuacan, 61, Am. Antiquity. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

BENOIST, PROF. JEAN, Phys. Anthrop, see 11th ed, Phys. & Biol. Vols.

BENOIT, DR. E(LPHEGE) PAUL, b. St. Louis sur Richelieu, Que, May 30, 14; m. 49; c. 1. PSYCHOLOGY. M.A, Connecticut, 52, Ph.D, 55. Res. dir, inst. res. except. children, Illinois, 54-56; chief psychologist & res. dir, Governor Bacon Health Center, Del, 56-59; res. coordinator, Partridge Schs. & Rehab. Center, Va, 59-61; dir, Jewish Found. Retarded Children, 61-65; CHIEF OPERS. RES. & PROG. PLANNING, D.C. DEPT. VOC. REHAB, 65-, PROJ. DIR, 67- Lectr, Delaware, 57-59; Maryland, 57-; exten. div, Virginia, 61- Consult, psychiat. unit, St. Francis Hosp, Wilmington, Del, 56-58; Hosp. Ment. Retarded, Stockley, 56-59; State Ment. Hyg. Clin, Del, 56-59; author & consult, White House Conf. Children & Youth, 59-60; consult, Nat. Cmt. Children & Youth, 61-; Maimonides Inst, Far Rockaway, N.Y. & Head Start Prog, Seton Montessori Sch, Va, 67- Mem, Coun. Except. Children, 55-; rev. bd. experts in child welfare, U.S. Div, State Merit Systs, 61-; Wash. Opers. Res. Coun, 65- AAAS; Psychol. Asn; Asn. Ment. Deficiency; Rehab. Asn. Philosophy; theory of learning; social and vocational growth and social implications of mental retardation; management of the mentally retarded at home and in institutions. Publ: Relevance of Hebb's theory of the organization of behavior to educational research on the mentally retarded, Am. J. Ment. Deficiency; Public awakening to the mentally retarded, focus on children & youth; Growing place of the mentally retarded in our society, In: Knowledge for the practice of public health. Address: District of Columbia Dept. of Vocational Rehabilitation, 1331 H St. N.W, Washington, D.C. 20005.

BENOIT, DR. EMILE, b. New York, N.Y, July 14, 09; div; c. 1. ECONOMICS. B.A, Harvard, 32, M.A, 33, Ph.D, 38. Tutor & asst, Harvard, 34-36; instr. econ, Illinois, 38-39; Wells Col, 39-42; from economist to sr. economist, War Prod. Bd. & U.S. Dept. Labor, 42-47; attaché, U.S. Embassy, London &

Vienna, 48-53; economist, McGraw-Hill Pub. Co, 54-56; PROF. INT. BUS, COLUMBIA, 56- Ford Found. faculty fel, 61-62. Consult, U.S. Arms Control & Disarmament Agency & chmn. panel on econ. impact of disarmament, 62; consult, UN Secretariat; U.S. Dept. Defense, 65-, dir. res. prog. int. econ. disarmament & arms control, 61- & res. proj. effects of nat. defense on developing economies, 67-69. Econ. Asn; Polit. Sci. Asn; Sociol. Asn. Foreign trade and investment; international relations; economics of national defense and arms control. Publ: Europe at sixes and sevens, 61 & Disarmament and world economic interdependence, 67, Columbia; co-ed. & co-auth, Disarmament and the economy, Harper, 63. Address: 39 Claremont Ave, New York, N.Y. 10027.

BENRUD, DR. CHARLES H(ARRIS), b. Goodhue, Minn, Apr. 30, 21; m. 49; c. 3. ECONOMICS, STATISTICS. B.S, Minnesota, 48, M.S, 49, Ph.D.(agr. econ), 63; Nat. Sci. Found. summer grants, N.C. State Col, 59, Florida, 60 & Iowa State, 61. Asst. agr. agent, Faribault County, Minn, 49-50, club agent, Hennepin County, 50-53, agr. agent, Ramsey County, 53-55; asst. prof. econ. & asst. economist, S.Dak. State Col, 55-58, assoc. prof. & assoc. economist, 58-63; sr. agr. statistician & chief party, RES. TRIANGLE INST, U.S. Agency Int. Develop. Contract Group, Lagos, Nigeria, 63-67, ECONOMIST, N.C, 67- Agr. Econ. Asn. Statistical methods; sampling; farm management; farm records; economics of seed production and marketing; utilization of rural manpower resources; rural economic surveys; population estimates and projections. Publ: Interregional competition in alfalfa seed production in the United States & Planning a father-son farm partnership, S.Dak. State Col. Exp. Sta. Bull; The USAID/RTI rural statistics program in Nigeria, Res. Triangle Inst, 6/67. Address: Research Triangle Institute, P.O. Box 12194, Research Triangle Park, N.C. 27709.

BENSBERG, DR. GERARD JOSEPH, JR, b. Camden, Ark, Nov. 15, 27; m. 48; c. 2. CLINICAL PSYCHOLOGY. B.S, Ark. Col, 47; M.A, Arkansas, 48; Northwestern, 48-49; Ment. Retardation fel. & Ph.D.(psychol), George Peabody Col, 57. Staff psychologist, Lincoln State Sch. & Hosp, 49-53; chief psychologist, South. Wis. Colony & Training Sch, 53-55; assoc. dir, Ark. Child Develop. Center, 57-59; asst. dir. ment. hyg. div, State Bd. Health, Ark, 59-61; dir. attend. training res. proj, South. Regional Ed. Bd, Ga, 61-66; ASSOC. PROF. PSYCHOL, MED. COL. ALA, 66-; ASSOC. DIR. CENTER DEVELOP. & LEARNING DISORDERS, UNIV. ALABAMA, 66- Consult, U.S. Off. Ed, 65-; President's Cmt. Ment. Retardation, 66-; mem. serv. adv. cmt, United Cerebral Palsy Asns, 66- Psychol. Asn; fel. Asn. Ment. Deficiency. Special education; validity and reliability of diagnostic psychometrics; community evaluation for mental health program development; training program for ward personnel in institutions for retarded. Publ: Ed, Teaching the mentally retarded, South. Regional Ed. Bd, 66; auth, Level of aspiration phenomena in mentally deficient persons, J. Personality; Concept learning in mental defectives as a function of appropriate and inappropriate attention sets, J.Ed. Psychol. Address: Center for Developmental & Learning Disorders, University of Alabama, 1919 Seventh Ave, S, Birmingham, Ala. 35233.

BENSON, DR. C. RANDOLPH, b. Staunton, Va, June 8, 23. SOCIOLOGY. B.A, Virginia, 46, Rockefeller Found. fel, 47-48, M.A, 48; Ph.D.(sociol), La. State, 66. Asst. prof. Eng, Southwest. La, 48-52; Arizona, 55-56; res. dir. pub, Int. Living, 56-62; asst. prof. SOCIOL, Arlington State Col, 62-63; Northwest. State Col.(La), 63-64; spec. lectr, La. State, 64-65; ASST. PROF, New Mexico State, 65-66; TRINITY (TEX), 66-, faculty res. grant, 66-67. Sociol. Asn. History of social thought, especially the Enlightenment; sociological theory. Publ: Family organization and disorganization in Virginia, Univ. Virginia Sci. Newsletter, fall 48. Address: Dept. of Sociology, Trinity University, San Antonio, Tex. 78212.

BENSON, PROF. C(HARLES) E(MILE), Psychol, see 10th ed, Soc. & Behav. Vols, deceased.

BENSON, PROF. CHARLES S(COTT), b. Atlanta, Ga, May 20, 22; m. 46; c. 3. ECONOMICS. A.B, Princeton, 43; M.A, Columbia, 48, Ph.D.(econ), 55. Instr. econ, Bowdoin Col, 50-52, asst. prof, 53-55; econ. & ed, Harvard, 56-58, lectr, 58-64; assoc. prof. ECON. OF ED, CALIFORNIA, BERKELEY, 64-67, PROF, 67- Exec. secy, State Cmt. Pub. Ed, Calif, 62-; consult, Senate Cmt. Revenue & Tax, Calif, 64-65; Ministry of Ed, Colombia, 66-67. U.S.N, 43-46, Lt.(jg). Econ. Asn; Economet. Soc. Local economic development; inter-governmental relations, especially finance of public education; allocation of resources in public school systems. Publ: The economics of public education; The school and the economic system, Sci. Res. Assocs, 66; Skill requirements and industrial training in durable goods manufacture, Indust. & Labor Rels. Rev. Address: 147 Arlington Ave, Kensington, Calif. 94707.

BENSON, DR. GEORGE, b. New York, N.Y, Dec. 5, 20; m. 44; c. 3. MARKETING. B.B.A, City Col. New York, 42; M.B.A, N.Y. Univ, 48, Ph.D.(newspaper retail advert), 59. Res. supvr. direct mail, McIntyre, Inc, 58-65; ASST. PROF. MKT, ST. JOHN'S (N.Y), 65- U.S.A, 42-45. Mkt. Asn. Address: Dept. of Marketing, St. John's University, Grand Central & Utopia Pkwys, Jamaica, N.Y. 11432.

BENSON, PRES. GEORGE C(HARLES) S(UMNER), b. New York, N.Y, Jan. 16, 08. PUBLIC ADMINISTRATION. A.M, Illinois, 29; A.M, Harvard, 30, Ph.D, 31. Instr. & tutor govt, Harvard, 30-34, sr. tutor, Lowell House, 32-34; lectr. polit. sci, Chicago, 34-36; assoc. prof. polit. sci. & dir. curriculum & pub. admin, Michigan, 36-41; prof. PUB. ADMIN, Northwestern, 41-45; PROF, CLAREMONT MEN'S COL, 46-, PRES. COL, 47- Personnel dir, admin. div, Off. Price Admin, 40-41; vis. expert, under-secy. war, Off. Mil. Govt, Germany, 49; res. dir, U.S. Cmn. Inter-Govt. Rels, 54-55. Chief res. consult, Coun. State Govts, 34-36; consult, U.S. Bur. Budget, U.S. Civil Serv. Cmn; U.S. Off. Emergency Mgt; U.S. Off. Price Div; bur. agr. econ, U.S. Dept. Agr. Managing ed, State Govt, 34-36. Trustee, Claremont Men's Col. U.S.A, 42-46, Col. Soc. Pub. Admin; Polit. Sci. Asn. Administration of civil service; financial control and integration. Address: Pitzer Hall, Claremont Men's College, Claremont, Calif. 91711.

BENSON, DR. JAMES D, b. Fairbury, Nebr, June 23, 25; m. 48; c. 4. MARKETING. B.S.C, Creighton, 49; M.A, Iowa, 52, Ph.D.(mkt), 58, Iowa State Col, 53-54. Instr. MKT, Gen. Motors Inst, 50-52; asst. prof, Iowa State Col, 52-54 & 55-57; instr, Iowa, 54-55; ASSOC. PROF, Southern Illinois, 57-62; IOWA, 62- Faculty fel, Chicago Bd. Trade, 65. U.S.A.A.C, 43-45, 2nd Lt. Mkt. Asn. Marketing management; marketing theory and computerized total enterprise simulation exercises. Publ: Co-auth, Merchandising and salesmanship for new and used cars, Gen. Motors Inst, 52; auth, Trade area analysis, Burlington, Iowa, Urban Renewal Admin, 66; co-auth, Organization and administration of a university sponsored executive development, J. Am. Soc. Training Prog. Dirs, 65. Address: Dept. of Business Administration, College of Business Administration, University of Iowa, Iowa City, Iowa 52240.

BENSON, DR. JERRY KENNETH, b. Winters, Tex, Feb. 1, 37; m. 58; c. 2. SOCIOLOGY. B.A, Baylor, 59; fel, Texas, 61-62, M.A, 63, Nat. Inst. Ment. Health fel, 63-64, Ph.D.(sociol), 65. Instr. SOCIOL, North Texas State, 64-65, ASST. PROF, 65-66; MISSOURI, 66- Consult, Timberlawn Found. res. proj, Tex, 66-67. Sociol. Asn. Sociology of organizations, especially large-scale bureaucracies; study of alienation, anomie, and related attitudes. Publ: Co-auth, The Harvard drug controversy: a case study of subject manipulation and social structure, In: Ethics, politics, and social research, Shenkman, 67. Address: 4 Mumford Dr, Columbia, Mo. 65201.

BENSON, PROF. LEONARD G(LENN), b. Kansas City, Mo, Nov. 22, 25; m. 52; c. 2. SOCIOLOGY. B.A, Kansas City, 49, fel. & M.A, 50; fel. & Ph.D, Washington State, 53. Asst. prof. SOCIOL, NORTH TEXAS STATE, 53-56, assoc. prof, 56-60, PROF, 60- U.S.A.A.F, 44-46. Sociol. Asn. Family; social stratification. Publ: Fatherhood, Random; National purpose, Pub. Affairs, 63; Parental authority evaluations, Southwest. Soc. Sci. Quart. Address: Box 5524, North Texas State University, Denton, Tex. 76203.

BENSON, PROF. OLIVER, b. Guthrie, Okla, Aug. 20, 11; m. 40; c. 2. INTERNATIONAL RELATIONS. A.B, Oklahoma, 32, A.M, 33; fel, Geneva, 35-36, Dr. es Sc. polit, 36. Instr. GOVT, OKLAHOMA, 36-38, asst. prof, 38-41, assoc. prof, 41-47, prof, 47-67, RES. PROF, 67-, CHMN. DEPT, 46-51, 59-, CHMN. GRAD. INT. STUDIES PROG, 59- Vis. instr, George Peabody Col, 40; vis. prof, Northwestern, 54-55; Texas, 56-57; Minnesota, 64. U.S.N.R, 42-46, Lt.(jg). Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Contemporary diplomatic history; immediate origins of the war in Europe; government of Oklahoma; computer programming of political problems; political science methodology. Publ: Political science laboratory, C.E. Merrill, 68. Address: 640 E. Boyd, Norman, Okla. 73069.

BENSON, DR. P(URNELL) H(ANDY), b. Highland Park, Ill, Nov. 10, 13; m. 47; c. 3. SOCIOLOGY, PSYCHOLOGY. B.A, Princeton, 35; M.A, Harvard, 36; Ph.D.(sociol), Chicago, 52. Instr. sociol, Temple, 47-53; asst. prof. sociol. & chmn. div. soc. studies, Drew, 53-57; lectr. mkt. res, New Sch. Soc. Res, 65-67; ASSOC. PROF. BUS. ADMIN, RUTGERS, 67-, ADJ. PROF. PSYCHOL, 65-; DIR. DEVELOP. RES, GRUDIN RES. CORP, 67- Indust. researcher & consult, 57- Sociol. Asn; Psychol. Asn; Econ. Asn; Psychomet. Soc; Opers. Res. Soc; Mkt. Asn. Psychological measurement; consumer research; family; sociology of religion. Publ: Religion in contemporary culture. Address: Box 56, Madison, N.J. 07940.

BENSON, DR. THOMAS W, Speech Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BENSON, PROF. W(ILLIAM) C(LARENCE), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 67.

BENSON, DEAN WINSTON W(ILLARD), b. Clarissa, Minn, July 11, 22; m. 47. POLITICAL SCIENCE. B.S, Minn. State Teachers Col, Bemidji, 47; M.A, Iowa, 49, Ph.D.(polit. sci), 51. From assoc. prof. to prof. polit. sci, Mankato State Col, 51-66; DEAN sch. arts & sci, Western Illinois, 66-67; SCH. GRAD. STUDIES, MANKATO STATE COL, 67- Mem, Nat. Coun. Soc. Studies. U.S.A.A.F, 43-46. Polit. Sci. Asn. Political parties; international relations. Publ: Workbook on Iowa and national government; Voter registration in Minnesota, J. Minn. Acad. Sci, winter 66. Address: 28 Skyline Dr, Mankato, Minn. 56001.

BENT, DR. RUSSELL JULIAN, Psychol, see 10th ed, Soc. & Behav. Vols.

BENTLEY, DR. DONALD LYON, Math. Statist, see 11th ed, Phys. & Biol. Vols.

BENTLEY, PROF. JOHN EDWARD, Psychol, see 10th ed, Soc. & Behav. Vols.

BENTLEY, R(ONALD) C(HARLES), b. Union, Iowa, Oct. 19, 99. MARKETING. B.S, N.Dak. Agr. Col, 23, M.S, 24; Pernell fel, Iowa State, 25-28; Harvard, 31-32. Asst. mkt. res. & exten, Iowa State, 28-31, asst. prof. mkt. res. & teaching, 32-35, mkt. res. & exten, 35-42; grain mkt. res. analyst, prod. mgt. admin, U.S. Dept. Agr, 42-43; assoc. prof. mkt. & mkt. news ed, Radio Sta. WOI, Iowa State, 43-62, prof. agr. econ, 62-65; EXEC. DIR, PROMISE INC, 65- Agr. Econ. Asn. Marketing and distribution; tax delinquent farm land in Iowa; freight costs of moving Iowa feed grains from surplus to deficit areas. Address: 1207 Hyland, Ames, Iowa 50010.

BENTLEY, PROF. WILSON JOSEPH, b. Yukon, Okla, Jan. 26, 16; m. 43; c. 2. INDUSTRIAL ENGINEERING & MANAGEMENT. B.S, Okla. Agr. & Mech. Col, 39, M.S, Okla. State, 53. Engr, Midwestern Eng. & Construct. Co, 39-40; methods engr, Wilson & Co, 45-48; instr. indust. eng, OKLA. STATE, 48-50, asst. prof. INDUST. ENG. & MGT, 50-51, assoc. prof, 51-55, PROF, 55-, CHMN. DEPT, 57- Employee rels. mgr, Deep Rock Oil Co, 49-50. Mgt. consult. various companies, 50-; labor arbitrator, 55- U.S.A, 38-40, C.Eng, 40-45, Res, 45-58, Lt. Col. Inst. Indust. Eng.(pres, 65-66); Nat. Soc. Prfnl. Eng. Organization and management theory and analysis; work measurement and analysis. Publ: Do you know the functions of management, Petrol. Engr, 3/59; Cost control through performance evaluation, Petrol. Mgr, 2/62; The successful manager-transition from engineer to manager, Indian Industs. Annual, 65. Address: School of Industrial Engineering & Management, Oklahoma State University, Stillwater, Okla. 74074.

BENTON, DR. ARTHUR L(ESTER), Psychol, see 11th ed, Phys. & Biol. Vols.

BENTON, DR. E(DWARD) MAXWELL, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BENTON, DR. RICHARD GLASSCOCK, b. San Antonio, Tex. Apr. 29, 38; m. 66. PSYCHOLOGY. B.A, Houston, 60, M.A, 62, Voc. Rehab. Admin. fel, 65 & 66, Ph.D.(psychol), 66. Fel. exp. psychol, Vet. Admin. Hosp. & Univ. Houston, 65; ASST. PROF. PSYCHOL, MED. BR, TEXAS, 66- Asst. prof, Houston, 67- Consult, Tex. Med. Asn, 67-; coronary care training prog, St. Joseph's Hosp, Houston, 68- AAAS; Psychol. Asn. Physiological, learning, and rehabilitation psychology. Publ: Projector slide changing and focusing as operant reinforcers, J. Exp. Anal. Behav, 9/67; Differentiation of escape and avoidance behavior in two thalamic areas in cat, Brain Res, 4/68. Address: Dept. of Psychology, University of Texas Medical Branch, Galveston, Tex. 77550.

BENTON, PROF. WILBOURN E, b. Cumby, Tex, Dec. 15, 17. INTERNATIONAL LAW. A.B, Tex. Tech. Col, 39, A.M, 41; Ph.D, Texas, 48; Acad. de Droit Int. de la Haye, 49, 53, 67. Instr. GOVT, Tex. Tech. Col, 41-42; asst. prof, Southern Methodist, 48-54; Houston, 54-57; assoc. prof, TEXAS A&M, 57-62, PROF, 62- Am. Polit. Sci. Asn; Int. Polit. Sci. Asn; Soc. Int. Law. Population brackets as a method of classification; county home rule movement in Texas. Publ: Texas: its government and politics; Nuremberg; German views of the war trials; United Nations action in the Suez crisis. Address: Dept. of Political Science, Texas A&M University, College Station, Tex. 77843.

BENTZ, PROF. ROBERT PAUL, b. Atlanta, Ga, May 16, 31; m. 58; c. 3. AGRICULTURAL ECONOMICS. B.S, Tex. Tech. Col, 53, William L. Ellwood fel, 56-57, M.S, 57; M.S, Cornell, 59; Ph.D, La. State, 61. Instr. AGR. ECON, 58-59, 60, asst, 59-60, asst. specialist, exten. serv, 60-61; asst. prof, ILLINOIS, URBANA, 61-66, ASSOC. PROF, 66- Am. Coun. Ed. fel. acad. admin, 67-68. U.S.N, 53-56, Res, 56-, Lt. Farm Econ. Asn; Poultry Sci. Asn. Extension education of poultry and egg marketing; economic problems of marketing and business management. Publ: Effects of packaging on retail egg sales and on quality deterioration, La. State Agr. Exp. Sta. Bull. Address: 305 Mumford Hall, University of Illinois, Urbana, Ill. 61801.

BENZ, DR. MARGARET GILBERT, Sociol, see 10th ed, Soc. & Behav. Vols.

BERAN, PROF. DONALD L, b. Highland, Wis, Oct. 21, 04; m. 28; c. 3. COMMUNITY DEVELOPMENT. B.S, Wis. State, Stevens Point, 37; M.S, Wisconsin, 47, Ph.D.(ed, rural sociol), 49. Teacher & supvr, pub. schs, Wis, 23-42; Midland Cooperatives, 42-48; assoc. prof. ed, Drake, 48-58; chief. div. community develop, U.S. Agency Int. Develop, 58-64; PROF. COMMUNITY DEVELOP. & COORDINATOR INT. TRAINING, MISSOURI, COLUMBIA, 64- Community ed. specialist, U.S. For. Opers. Admin, 53-56; vis. prof, American Univ. Cairo, 54-56. Adv. community develop, Govt. Togo, 62; Govt. Tanzania, 65. Nat. Guard, 22-27. Rural Sociol. Soc. Curriculum; cooperatives; community development curriculum in United States universities; United States technical assistance in northeast Brazil; study action groups in North Central states. Publ: Introduction to community development, 64 & Community development in colleges and universities of the United States, 67, Univ. Missouri; People in action, Interstate Printers, 68. Address: 311 Professional Bldg, University of Missouri, Columbia, Mo. 65201.

BERANEK, PROF. WILLIAM, b. Milwaukee, Wis, Aug. 21, 22; m. 43; c. 3. ECONOMICS, OPERATIONS ANALYSIS. B.S, California, Los Angeles, 49, M.B.A, 50, Ph.D, 59. Lectr. finance, California, Los Angeles, 52-54; instr, Mass. Inst. Tech, 54-57; asst. prof. opers. anal, Wisconsin, 57-59, assoc. prof, 59-63, prof, 63-66; PROF. FINANCE & HEAD DEPT, PA. STATE, 66. Ford Found. faculty res. fel, 64-65. Econ. Asn; Economet. Soc; Inst. Mgt. Sci. Application of quantitative methods to financial analysis. Publ: Analysis for financial decisions, Irwin, 63; Working capital management, Wadsworth, 66; Financial implications of lot-size inventory models. Address: College of Business Administration, Pennsylvania State University, University Park, Pa. 16802.

BERARDO, DR. FELIX M, b. Waterbury, Conn, Feb. 7, 34; m. 56; c. 2. SOCIOLOGY. B.A, Connecticut, 61; Ph.D.(sociol), Fla. State, 65. ASST. PROF. SOCIOL, WASHINGTON STATE, 65- U.S.A.F, 52-56. Sociol. Asn; Rural Sociol. Soc; Nat. Coun. Family Rels. The family, especially extended family systems, migration, social and geographic mobility and power structure; development of family research instruments; criminology; social psychology. Publ: Co-ed, Emerging conceptual frameworks in family analysis, Macmillan, 66; auth, Kinship interaction and migrant adaptation in an aerospace-related community, 66 & Kinship interaction and communications among space-age migrants, 67, Marriage & the Family. Address: Dept. of Sociology, Washington State University, Pullman, Wash. 99163.

BERCOS, JAMES, b. Chicago, Ill, Apr. 2, 18; m. 52. MATHEMATICS, STATISTICS. B.S, Illinois, 47; B.B.A, Georgia, 50, M.S, 52; Columbia, 61-62; American Univ, 62-64. Instr. math, Illinois, 47-48; math. & statist, Georgia, 48-52, 53-55; anal. statistician, U.S. Naval Ord. Lab, 52; personnel statistician, Lockheed Aircraft Corp, 52-55, eng. opers. planner, 55-56, sr. opers. res. analyst, 56-59; res. mathematician, RCA Serv. Co, Radio Corp. Am, 59-60; sr. opers. res. analyst, Syst. Develop. Corp, 60-61, opers. res. scientist, 61-62; OPERS. ANALYST, RES. ANAL. CORP, 62-, consult, to SEATO & mem. RAC Field Off, Thailand, 64-66. Instr, Ga. State Col, 55-58 U.S.A, 42-46, Sgt. Math. Asn; Statist. Asn; Opers. Res. Soc; Inst. Math. Statist. Logistics; counterinsurgency; criteria for operational evaluation and measurement of performance of large scale man-machine command control systems; general systems analysis; economics; product market development; statistical indexes for regional business activity measurement. Address: 5009 Battery Lane, Bethesda, Md. 20014.

BERDAHL, PROF. CLARENCE A(RTHUR), b. Baltic, S.Dak, June 14, 90; m. 26; POLITICAL SCIENCE. A.B, St. Olaf Col, 14, LL.D, 58; A.M, South Dakota, 17, LL.D, 61; Ph.D, Illinois, 20. Instr. polit. sci, ILLINOIS, URBANA, 20-22, assoc, 22-25, asst. prof, 25-29, assoc. prof, 29-30, prof, 30-61, chmn. div. soc. sci, 35-39, dept. polit. sci, 42-48, EMER. PROF. POLIT. SCI, 61- Lectr, Grad. Inst. Int. Studies, Switz, 32; vis. prof, Southern Illinois, 58-64 & 65-67; Delaware, 65. Consult, U.S. Dept. State, 42-44; hist. off, 57-65; Off. Strategic Serv, Eng, 44; int. secretariat, UN Conf, 45. Mem, Cmn. Study Orgn. Peace, 39-, exec. cmt, 50- U.S.A, 18. Polit. Sci. Asn. (3rd v.pres, 39, 2nd v.pres, 44); Am. Soc. Int. Law; Hist. Asn; Acad. Polit. Sci; Am. Acad. Polit. & Soc. Sci. Political parties; international organization; war powers of the executive in the United States; documents and readings in American government; the policy of the United States and League of Nations. Publ: Collab, Presidential nominating politics in 1952, Presidency in transition & Aspects of American government. Address: 1103 S. Douglas Ave, Urbana, Ill. 61801.

BERDAHL, DR. ROBERT O(LIVER), b. Gainesville, Fla, Oct. 25, 26; m. 54; c. 2. COMPARATIVE GOVERNMENT. B.A, California, Los Angeles, 49, M.A, Berkeley, 54, Ph.D, 58; Rotary Int. scholar, Paris, 52-53; Marshall scholar, London, 55-57, M.Sc, 57. Asst. polit. sci, California, 51-52, 53-54, admin. analyst, pres. off, 54-55, assoc. polit. sci, 57-58; asst. prof. govt, San Francisco State Col, 58-60; assoc, Commonwealth Fund, N.Y. & Eng, 60-62; from asst. prof. govt. to ASSOC. PROF. POLIT. SCI, SAN FRANCISCO STATE COL, 62- U.S.A.A.F, 45. Comparative European government, especially contemporary British and French government; reconciliation of national subsidies; freedom in pluralist societies. Publ: British universities and the state; British Arts Council; Air pollution control. Address: Dept. of Political Science, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

BERDIE, PROF. RALPH F(REIMUTH), b. Chicago, Ill, June 21, 16; m. 42; c. 3. PSYCHOLOGY. B.A, Minnesota, 38, M.A, 39, fel, 39-40, Ph.D.(psychol), 42. Asst, Minnesota, 38-39, asst. to dir. testing bur, 41-42; counsr. & asst. prof. PSYCHOL, 42-43; assoc. prof, George Peabody Col, 46-47; from assoc. prof. to PROF, MINNESOTA, MINNEAPOLIS, 47-, DIR. STUDENT LIFE STUDIES, 66-, dir. student counseling bur, 47-66. Fulbright fel, Australia, 56-57; Ford Found. consult, India, 61-62. U.S.N.R, 43-46, Lt. Fel. Psychol Asn; Personnel & Guid. Asn; Ed. Res. Asn. Interviewing; aptitude tests; factors associated with vocational interests; impact of higher education. Publ: After high school: What?; Minnesota counseling inventory; co-auth, Decisions for Tomorrow, Univ. Minnesota, 65. Address: Office of the Dean of Students, University of Minnesota, Minneapolis, Minn. 55455.

BEREDAY, PROF. GEORGE Z(YGMUNT) F(IJALKOWSKI), b. Warsaw, Poland, July 15, 20; nat; m. 54; c. 3. SOCIOLOGY. B.Sc, London, 44; B.A, Oxford, 50, M.A, 53; Ph.D.(comp. ed), Harvard, 53. PROF. COMP. ED, COLUMBIA, 55- Lectr, Univ. Am, Colombia, 56; London, 58; Univ. Concepcion, Chile, 58; Paris, France, 60; McGill, 61; vis. prof. & Ford Found. fel, Warsaw, Poland, 59; exchange prof, Moscow, Russia, 61; Fulbright prof, Tokyo, 62; Carnegie Found. fel, Univ. Singapore, 63; res. fels, Harvard Law Sch, 63-65. Mem, 1st Cultural Mission, U.S.S.R, 56; U.S. State Dept. Mission to Finland, 66; U.S. del, U.S-Saipan Cultural Conf, 68. With Polish Cavalry & Brit. Paratroops, 39-46. Comp. Ed. Soc; Sociol. Soc; Hist. Asn. History; sociology; comparative education. Publ: Public Education in America, Harper, 58; Changing Soviet school, Houghton, 60; Comparative method in education, Holt, 64. Address: Teachers College, Columbia University, New York, N.Y. 10027.

BEREITER, PROF. CARL E(DWARD), b. Zion, Ill, Sept. 27, 30; m. 54; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Wisconsin, 51, M.A, 52, Univ. fel, 57-58, Knapp Adv. fel, 58-59, Ph.D.(ed), 59. Res. assoc. psychol, Mary Conover Mellon Found, Vassar Col, 59-61; asst. prof. ed, Illinois, Urbana, 61-63, assoc. prof, 63-66, PROF, 66-67; APPL. PSYCHOL, ONT. INST. STUDIES IN ED, 67- Guggenheim fel, 68. U.S.A, 52-54. Ed. Res. Asn. Early childhood education; cognitive development; classroom learning and instruction. Publ: Co-auth, Teaching disadvantaged children in the preschool, Prentice Hall, 66. Address: Ontario Institute for Studies in Education, 102 Bloor St. W, Toronto 5, Ont, Can.

BERELSON, DR. BERNARD, b. Spokane, Wash, June 2, 12; m. 53; c. 5. SOCIOLOGY. A.B, Whitman Col, 34; B.A, Washington (Seattle), 36, M.A, 37; Ph.D, Chicago, 41. Spec. analyst, For. Broadcast Intel. Serv, Fed. Communications Cmn, 41-44; res. dir, bur. appl. soc. res, Columbia, 44-46; prof. library sci. & soc. sci, Chicago, 46-51, soc. sci, 57-60, dean grad. library sch, 47-51; dir. behav. sci. prog, Ford Found, 51-57; Bur. Appl. Soc. Res, 60-61; dir. commun. res. prog, POP. COUN, 62-63, v.pres, 63-68, PRES, 68- Mem. cmt. pop, Nat. Acad. Sci, 64- Sociol. Asn; Asn. Pub. Opinion Res.(pres, 51-52); Pop. Asn. Communication and public opinion. Publ: Graduate education in the U.S; co-auth, Voting; Human behavior, Harcourt, 64. Address: 7 Ardsley Terr, Irvington-on-Hudson, N.Y. 10533.

BERENBERG, DR. ALBERT NELSON, Psychol, see 10th ed, Soc. & Behav. Vols.

BERENDA, DR. RUTH W(EINREB), b. Poland; nat. PSYCHOLOGY. B.S, City Col. New York, 36; scholar, New Sch. Soc. Res, 42-43, 44-46, fel, 46, Ph.D. (psychol), 48; scholar, Rochester, 44. Psychologist, Bd. Ed, 39-40; instr, City Col. New York, 45-49; Queens Col.(N.Y), 47; Hunter Col, 47-57; INDIVIDUAL & GROUP PSYCHOANALYST, 47- Psychologist, Domestic Rels. Court, 48-51; psychologist & res. assoc, St. Luke's Hosp, 58-, training therapist in charge geriat. group, 61-66 & interaction group, 66- Psychol. Asn; Acad. Psychother; Inter-Am. Soc. Psychol; Int. Coun. Psychol. Social and child psychology; child psychiatry. Publ: Influence of the group on the judgements of children; Book of Job—a psychoanalytic interpretation; Psychoanalytic meaning of prejudice. Address: 145 W. 55th St, New York, N.Y. 10019.

BERENS, DR. ALAN PAUL, Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BERENSON, PROF. BERNARD GERALD, b. Portland, Maine, Nov. 7, 29; m. 57; c. 2. PSYCHOLOGY. B.A, American Univ, 53; M.A, Maryland, 57, South. Regional Ed. Bd. grant, 57-59, Ph.D.(psychol), 61. Asst. PSYCHOL, Maryland, 55-57, res. assoc, 57-58, counsr-instr, 57-60, asst. prof, 60-61; assoc. prof, Massachusetts, 61-66, faculty res. grant, 64-65; assoc. prof, Arkansas, 66-67; PROF, STATE UNIV. N.Y. BUFFALO, 67- Co-prin. investr, Nat. Inst. Ment. Health res. grant, 66-67. Consult, Vet. Admin, 67. U.S.N, 48-49. Psychol. Asn. Counseling; psychotherapy; human relations. Publ: Co-auth, Sources of gain in counseling and psychotherapy, 67 & Beyond

counseling & therapy, 67, Holt; Seven views of psychotherapy, Int. Sci. Press, 68. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

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BERESFORD, JOHN CLINTON, b. St. Paul, Minn, Mar. 11, 30; m. 51; c. 2. DEMOGRAPHY, SOCIOLOGY. B.A, Antioch Col, 51; M.A, Michigan, 53. Statistician, U.S. BUR. CENSUS, 58-63, staff asst, div. chief of pop, 63-66, SPEC. ASST, DIRECTOR'S OFF, 66- U.S.A, 53-55. Statist. Asn; Sociol. Asn; Pop. Asn; Urban & Regional Info. Systs. Asn. Family and household formation, living arrangements; census data applications to sociology and demography. Publ: Co-auth, Characteristics of other families, 65 & Privacy, poverty, and old age, 66 & auth, Making census results more readily accessible, 67, Demography. Address: 1317 Alexandria Ave, Alexandria, Va. 22308.

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BERG, DR. ERIC RICHARD, b. Fredericksburg, Tex, Mar. 8, 21. ECONOMICS, AGRICULTURAL ECONOMICS. B.A, Texas, Austin, 47, M.A, 54; M.S, Illinois, 56, Ph.D.(agr. econ), 57. Agr. economist, U.S. Dept. Agr, 59-62; ASSOC. PROF. ECON, ALBERTA, 62- U.S.N, 41-45, 52-64, Lt. Am. Econ. Asn; Agr. Econ. Asn; Can. Agr. Asn. Foreign agriculture and development; commodity price analysis. Publ: Structure of soybean oil export market, Univ. Illinois, 60; Nigeria, Senegal, Congo, Commercial Printers, Can, 67; co-auth, World grain production and trade, In: Encyclopedia Britannica, 60. Address: Dept. of Agricultural Economics, University of Alberta, Edmonton, Alta, Can.

BERG, PROF. HARRY D(AHL), Soc. Sci, see 10th ed, Soc. & Behav. Vols.

BERG, PROF. IRWIN AUGUST, b. Chicago, Ill, Oct. 9, 13; m. 39; c. 1. PSYCHOLOGY. A.B, Knox Col, 36; A.M, Michigan, 40, Ph.D.(psychol), 42. Personnel counsr, West Elec. Co, Ill, 36-39; fel. & assoc. clinician, Michigan, 39-42; asst. prof. psychol. & clin. counsr, Illinois, 42-47; assoc. prof. PSYCHOL, Pomona Col, 47-48; Northwestern, 48-55; prof. & chmn. dept, LA. STATE, 55-65, DEAN COL. ARTS & SCI, 65- Counseling & testing, Vet. Admin, 47-; U.S. Dept. Labor, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol. AAAS; fel. Psychol. Asn; Personnel & Guid. Asn. Counseling; personality; dynamics of adjustment; objective personality measurement. Publ: Co-auth, Conformity and deviation, Harper, 61 & An introduction to clinical psychology, third ed, Ronald, 66; Response set in personality assessment, Aldine, 67. Address: 853 DuBois Dr, Baton Rouge, La. 70808.

BERG, DR. IVAR ELIS, JR, b. Brooklyn, N.Y, Jan. 3, 29; m. 50; c. 1. SOCIOLOGY, BUSINESS. A.B, Colgate, 54; Woodrow Wilson & Fulbright fels, Oslo, 54-55; Chester Hastings Arnold fel, Harvard, 55-56, fel, 56-57, Nat. Inst. Ment. Health fel, 57-59, Ph.D.(sociol), 59. Assoc. bus. sociol, GRAD. SCH. BUS, COLUMBIA, 59-60, asst. prof. SOCIOL, 60-63, ASSOC. PROF, 63- Res. assoc, Columbia Conserv. Human Resources Proj, 60-; adv, Nat. Cmn. Employment Youth, N.Y, 63-65; consult, President's Cmn. Law Enforcement & Admin. Justice, 66-67. U.S.M.C, 48-52, Maj. Sociol. Asn; Soc. Appl. Anthrop. Industrial sociology; comparative study of organizations; sociology of economic institutions; manpower. Publ: Co-auth, Democratic values and the rights of management, Columbia Univ, 64, Values in a business society & ed. & co-auth, The business of America, Harcourt, 68. Address: 721 Uris Hall, Columbia University, New York, N.Y. 10027.

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BERG, DR. ROBERT L(OUIS), b. Los Angeles, Calif, Mar. 1, 12; m. 44; c. 3. POLITICAL SCIENCE. M.A, Minnesota, 48, Ph.D, 58. Instr. POLIT. SCI, Minnesota, 47-49; Wisconsin, 49-58; asst. prof, WIS. STATE, RIVER FALLS, 58-60, assoc. prof, 60-64, PROF, 64-, CHMN. DEPT, 66- U.S.A, 42-46, Capt. Polit. Sci. Asn. American government and political parties; political theory; constitutional law. Address: 370 W. Church St, River Falls, Wis. 54022.

BERG, DEAN SHERWOOD O(LMAN), b. Hendrum, Minn, May 17, 19; m. 44; c. 2. AGRICULTURAL ECONOMICS, STATISTICS. B.S, S.Dak. State Col, 47; M.S, Cornell, 48; Dorr fel, Minnesota, 48-49, univ. fel, 49-50, Ph.D, 51. Asst. econ, Minnesota, 49-51; agr. econ. officer, U.S. Dept. State, 51-53, agr. attache, Yugoslavia, 51-54; U.S. Dept. Agr, Denmark & Norway, 54-57; prof. agr. econ. & head dept, MINNESOTA, 57-63, DEAN INST. AGR, 63- Kellogg Found. traveling fel, Far East, 58. Consult, U.S. Agency Int. Develop, 58-66; U.S. Dept. Agr, 60- Mem, Int. Conf. Agr. Econ; chmn, Nat. Adv. Cmn. Food & Fiber, 65-67; mem, Nat. Adv. Cmn. Income Maintenance, 68. U.S. Dept. Agr. Superior Serv. award, 56. U.S.A, 43-46. Agr. Econ. Asn.(v.pres, 61-62); Econ. Asn; Agr. Hist. Soc. Mathematics; foreign agricultural development; international trade; agricultural finance; economic theory. Publ: University training in agricultural economics for foreign students' and International opportunities for American land-grant universities, J. Farm Econ; Role of food for peace, In: Increasing understanding of public problems and policies 1961. Address: 3261 N. Snelling Ave, St. Paul, Minn. 55112.

BERG, PROF. WARREN G(LENN), b. Chicago, Ill, June 9, 24; m. 46; c. 5. ECONOMICS. A.B, Luther Col.(Iowa), 48; Dubuque, 43; Columbia, 44; M.A, Iowa, 50, Lutheran Brotherhood scholar, 53-54, Ph.D, 60. PROF. ECON. & BUS. ADMIN. & HEAD DEPT, LUTHER COL.(IOWA), 48- Instr, Iowa, 53-54; Fulbright prof, Royal Univ. Malta, 66-67. U.S.N.R, 42-46, Lt.(jg). Am. Acct. Asn; Econ. Asn. Accounting; religious fundamentalism and the radical right. Publ: Problems surrounding the certified public accountants opinion on published financial statements; Principles of accounting; co-auth, The matching concept, Acct. Rev, 4/65. Address: 626 Center St, Decorah, Iowa 52101.

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BERGE, PROF. STANLEY, b. Ottawa, Ill, May 18, 10. ECONOMICS. B.S, Northwestern, 32, M.B.A, 34. Asst. to exec. v.pres, U.S. Bldg. & Loan League, 34-36; mgr. traffic res, Ill. Cent. R.R, 36-42; assoc. prof. TRANSPORTATION, SCH. BUS, NORTHWESTERN, 46-50, PROF, 50- U.S.N.R, 42-46. Transportation economics; management and public policy. Address: Dept. of Transportation, Northwestern University, Evanston, Ill. 60201.

BERGEL, PROF. E(GON) E(RNEST), b. Vienna, Austria, Nov. 6, 94; nat; m. 45; c. 2. SOCIOLOGY. Jur. D, Vienna, 18; A.M, Harvard, 41, Ph.D, 42. Prof. SOCIOL, Friends, 42-44; ed, Off. War Info, 44-45; assoc. prof, Whitman Col, 46-47; PROF, Springfield Col, 47-63; C.W. POST COL, LONG ISLAND, 63- Vis. prof, Vienna, 64. Housing specialist, Montclair Planning Bd, N.J, 46. Sociol. Asn; Asn. Univ. Prof. Theory; sociology of politics. Publ: System of corporation tax; Urban sociology; Social stratification. Address: 730 Riverside Dr, New York, N.Y. 10031.

BERGEN, DR. BERNARD J, b. New York, N.Y, Apr. 28, 30; m. 53; c. 2. SOCIOLOGY. A.B, City Col. New York, 56; Ph.D.(sociol), Harvard, 62. Instr. pub. health & sociol, Yale, 62-63, ASST. PROF, 63-65, sociol, 65-66; PSYCHIAT. & SOCIOL, DARTMOUTH MED. SCH, 66- U.S.A.F, 51-55, S/Sgt. Sociol. Asn. Social and community psychiatry; sociology of deviance and deviant behavior; culture and personality. Publ: Co-auth, Issues and problems in social psychiatry: a book of readings, C.C. Thomas, 66; Social psychiatric view of psychological misfunction and role of psychiatry in social change, Arch. Gen. Psychiat, 65; auth, Professional communities and the evaluation of demonstration projects in community mental health, Am. J. Pub. Health, 65. Address: 14 N. Park St, Hanover, N.H. 03755.

BERGEN, DR. JOHN V(ICTOR), b. Edinburgh, Scotland, Aug. 11, 30; U.S. citizen; m. 57; c. 4. GEOGRAPHY. B.A, Col. Wooster, 52; Colorado, 54-55; M.A, Indiana, 58, Ph.D.(geog), 64. Teacher, pub. schs, Idaho, 55-56; ASST. PROF. GEOG, Ferris State Col, 60-66; WESTERN ILLINOIS, 66- U.S.A, 52-54. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed; Spec. Libraries Asn. Small urban settlements. Publ: Introductory college geography textbooks, 1940-1965; a bibliographical summary, Nat. Coun. Geog. Ed, 66. Address: Dept. of Geography, Western Illinois University, Macomb, Ill. 61455.

BERGER, ADOLPH O(SCAR), b. Chicago, Ill, June 21, 07; m. 33; c. 2. ECONOMICS. A.B, Dartmouth Col, 29; M.A, Chicago, 35. Prof. econ, Penn Col,

33-42; economist, BUR. LABOR STATIST, U.S. DEPT. LABOR, 42-44, regional dir, 44-67, ASST. DIR. WEST. REGION, 67- Econ. Asn; Indust. Rels. Res. Asn. Labor economics. Address: 66 Cleary Court, San Francisco, Calif. 94109.

BERGER, DR. ANDREW, b. Szombathely, Hungary, Dec. 12, 27; nat; m. 56. CLINICAL PSYCHOLOGY. B.A, Houghton Col, 49; M.A, Indiana, 52; Ph.D, Missouri, 59. Jr. psychologist, Training Sch. Vineland, 52-54, for. exchange scientist, 54-55; instr. psychol, Missouri, 55-56; intern clin. psychol, Fulton State Hosp, 56-58, clin. psychologist, 58-60; sr. psychologist, Topeka State Hosp, 63; clin. psychologist, Menninger Found, Kans, 63-64; chief psychologist & dir. ed, Div. Ment. Health, Ore, 65-66; private practice, 66- Vis. lectr, William Woods Col, 56-58; Washburn, 59-61. Consult, Allen-Neosho Ment. Health Center, Kans, 63-64; sr. psychol. consult, Delaunay Inst, Portland, Ore, 66. Psychol. Asn. Double-bind test for schizophrenia; psychodiagnostics; individual and group psychotherapies; play therapy; psychiatric team; language and metacommunication. Publ: Prejudice and the offenses of emotionally disturbed delinquents; A test of the double-bind hypothesis of schizophrenia, Family Process, 65; co-auth, Voice confrontation: a bilingual study, J. Personality & Soc. Psychol, 67. Address: 2525 N.W. Lovejoy, Portland, Ore. 97210.

BERGER, PROF. BENNETT MAURICE, b. New York, N.Y, May 1, 26; m. 56; c. 1. SOCIOLOGY. A.B, Hunter Col, 50; Ph.D.(sociol), California, 58. Assoc. soc. sci, California, 57-58, lectr. sociol, 58-59; res. asst. prof. commun, Illinois, Urbana, 59-61, asst. prof. SOCIOL, 59-62, assoc. prof, 62-63; CALIFORNIA, DAVIS, 63-65, PROF, 65-, CHMN. DEPT, 67- Alpha Kappa Delta lectr, Purdue, 61. Alumni Asn. award, Hunter Col, 60. U.S.M.C, 44-46. Sociol. Asn; Soc. Study Social Probs. Sociology of knowledge; youth culture. Publ: Working class suburb; On the youthfulness of youth cultures, Soc. Res, 63; The new morality, Trans-action, 67. Address: 144 Bret Harte Rd, Berkeley, Calif. 94708.

BERGER, DR. DAVID G(EORGE), b. Cleveland, Ohio, Sept. 6, 21; m. 45; c. 2. PSYCHOLOGY. B.S, Western Reserve, 47; M.A, Wayne, 48; Ph.D, Mich. State, 52. Counseling psychologist, Maybury & Wayne County Tuberc. Sanatoriums, Mich, 47-48; clin. psychologist, Battle Creek Vet. Admin. Hosp, 52-54; res. psychologist hosp. res. prog, Leech Farm Vet. Hosp, 54-57; patient self-care practices, Crile Vet. Hosp, 57-58; exec. dir. med. audit plan for psychiat. hosps, Nat. Inst. Ment. Health & Vet. Admin, 58-62; RES. ADMINSTR, ORE. STATE BD. CONTROL, 62- Consult, Vet. Admin, 64- Mem. soc. probs. res. rev. cmt, appl. res. br, Nat. Inst. Ment. Health, 67- U.S.N.R, 42-45. Psychol. Asn; Pub. Health Asn. Organization evaluation; methodology for estimating extent to which public hospitals achieve goals which are publicly endorsed; evaluation in intellectual deficit in schizophrenia perceptual anamolies in organic brain damage. Address: 3860 Saxon Dr. S, Salem, Ore. 97302.

BERGER, DR. ELLEN TESSMAN, b. Berlin, Germany, Feb. 3, 22; U.S. citizen; m. 67. CLINICAL PSYCHOLOGY. A.B, California, Berkeley, 44; Ph.D. (psychol), Pa. State, 55. Carnegie Found. res. fel, 55; staff psychologist, South Shore Guid. Center, 55-56; trainee, JUDGE BAKER GUID. CENTER, BOSTON, 56-57, STAFF PSYCHOLOGIST, 57- Psychol. Asn. Child psychology; dynamics and treatment of school phobia in children; investigation of the clinical and cognitive aspects of learning disabilities in children. Publ: Co-auth, A program for early intervention in school phobia, 59 & School phobia in adolescence: a manifestation of severe character disturbance, 60, Am. J. Orthopsychiat. & Patterns of aggression in school phobia, Psychoanal. Study Child, 62. Address: 9 Sparks St, Cambridge, Mass. 02138.

BERGER, DR. EVELYN MILLER, b. Hanford, Calif, Nov. 7, 96; m. 39. PSYCHOLOGY. A.B, Stanford, 21, M.A, 30; Stevens fel, Columbia, 31-32, Ph.D. (psychol), 32; hon. D.Pd, Univ. of the Pacific, 60. Prof. Spanish & dean of women, Allegheny Col, 32-36; dean of women, Idaho, 36-37; San Diego State Col, 37-38; ADMIN. DIR, E.BAY PSYCHOL. CENTER, 41- Dipl, Am. Bd. Exam. Prfnl. Psychol. Asn. Marriage Counsr; fel. Psychol. Asn; Int. Coun. Psychol. Education; Spanish. Publ: La joven; Extra curricular activities for the Spanish department; Factors in learning. Address: 315 14th St, Oakland, Calif. 94612.

BERGER, PROF. JOSEPH, b. Brooklyn, N.Y, Apr. 3, 24; m. 66; c. 2. SOCIOLOGY. A.B, Brooklyn Col, 49; M.A, Harvard, 52, Ph.D.(sociol), 58. Instr. SOCIOL, Dartmouth Col, 54-56, asst. prof, 56-59; STANFORD, 59-62, assoc. prof, 62-68, PROF, 68- Nat. Inst. Ment. Health spec. fel, 64. Sociol. rep. panel math. for biol, mgt. & soc. sci, Math Asn. Am, 63-64. Intel.C, U.S.A, 43-46, 1st Lt. Sociol. Asn. Classical and modern sociological theory; theory construction in the behavioral sciences; experimental study of social processes. Publ: Co-auth, Types of formalization in small groups research, 62 & co-ed, Sociological theories in progress, Vol. I, 66, Houghton; co-auth, Decision-making and social influence: a model and experimental test, Sociometry, 12/67. Address: Lab. for Social Research, Stanford University, Stanford, Calif. 94305.

BERGER, DR. KENNETH W(ALTER), Audiol, see Suppl. II to 11th ed, Phys. & Biol. Vols.

BERGER, PROF. LESLIE, b. Pecs, Hungary, July 19, 28; nat; m. 57. PSYCHOLOGY. B.A, Brooklyn Col, 54; M.A, Michigan, 55, Ph.D, 57; cert. psychother. & psychoanal, N.Y. Univ, 67. Instr, Staunton Clin, sch. med, Pittsburgh, 57-58; chief, ward servs. & training sect. psychol. servs, Vet. Admin. Hosp, Montrose, N.Y, 58-61; asst. prof. STUDENT LIFE, CITY COL. NEW YORK, 61-65, assoc. prof, 65-66, PROF, 67-, ASSOC. UNIV. DEAN & DIR. SEEK PROG, CITY UNIV, 67-, asst. to dir. sch. gen. studies, 61-66. Psychol. Asn. Higher education for disadvantaged youth. Address: 3 Avondale Rd, White Plains, N.Y. 10605.

BERGER, PROF. MORROE, b. New York, N.Y, June 25, 17; m. 43; c. 3. SOCIOLOGY. Fel, Columbia, 46-47, Ph.D.(sociol), 50. Lectr. contemporary civilization, Columbia Col, 47-49; instr. sociol, N.Y. Univ, 50-52; asst. prof, PRINCETON, 52-57, assoc. prof, 57-62, PROF. SOCIOL. & DIR. PROG. NEAR EAST. STUDIES, 62- Spec. lectr, Rand Sch. Soc. Sci, N.Y, 39, 47. Consult, Nat. Security Resources Bd; Exec. Off. President, D.C, 52-53; Ford Found, 60-63 & 67; U.S. Dept. Health, Ed. & Welfare, 65-67. Chmn. Joint Cmt. Near & Mid. East, Am. Coun. Learned Socs-Soc. Sci. Res. Coun, 63- Bancroft prize, Asn. Study Negro Life & Hist, 47. U.S.A, 41-45. Sociol. Asn; Mid. East Studies Asn.(pres, 67). Political sociology; the Near East; popular culture. Publ: Equality by statute; Bureaucracy and society in modern Egypt; The Arab world today. Address: Dept. of Sociology, Princeton University, Princeton, N.J. 08540.

BERGER, PROF. PETER L, b. Vienna, Austria, Mar. 17, 29; nat; m. 59; c. 1. SOCIOLOGY. B.A, Wagner Col, 49; M.A, New Sch. Soc. Res, 50, Ph.D, 54. Lectr. SOCIOL, Georgia, 54-55; res. dir, Evangelical Acad, Germany, 55-56; asst. prof, Womans Col, North Carolina, 56-58; assoc. prof, Hartford Sem. Found, 58-63; PROF, GRAD. FACULTY, NEW SCH. SOC. RES, 63- Dir, Inst. Church & Community, 58-; summer lectr, Econ. Inst, Celigny, Switz, 61. U.S.A, 53-55. Sociol. Asn; Soc. Sci. Study Relig.(pres, 66-68). Sociology of religion, knowledge and politics; sociological theory. Publ: Invitation to sociology, 63, co-auth, The social construction of reality, 66 & The sacred canopy, 67, Doubleday. Address: New School for Social Research, 66 W. 12th St, New York, N.Y. 10011.

BERGER, DR. RAINER, b. Graz, Austria, July 3, 30; U.S. citizen; m. 59; c. 2. ANTHROPOLOGY, GEOCHEMISTRY. Cambridge, 51-53; Kiel, 53-55; Fulbright scholar, 55-57; Ph.D.(chem), Illinois, 60. Staff scientist, Gen. Dynamics Corp, 60-62; sr. res. scientist, Lockheed Aircraft Corp, 62-63; ASST. PROF. ANTHROP. & GEOPHYS, CALIFORNIA, LOS ANGELES, 63-NASA fel, 66-67; Nat. Sci. Found. fel, 66-68; Guggenheim fel, 68-69. Consult, follow-on prog. to Apollo, N.Am. Aviation, Inc/NASA, 64-65. Mem, Int. Conf. Appln. Sci. to Medieval Archaeol, Univ. California, 67; Pan-African Cong. Prehist. & Quaternary Studies, Wenner-Gren Found, 67. AAAS; Chem. Soc; Geophys. Union; Geochem. Soc; Soc. Am. Archaeol; fel. Anthrop. Asn. Isotopic dating techniques in archaeology and geochemistry, especially radiocarbon and tritium dating and tracing, including applications; organic radiation chemistry and evolution of organic compounds. Publ: Auth, The proton irradiation of methane ammonia and water at 77°K, 9/61 & co-auth, The fire areas on Santa Rosa Island, California, I, II, 11-12/66, Proc. Nat. Acad. Sci; co-auth, University of California, Los Angeles radiocarbon dates, Radiocarbon, 65. Address: Institute of Geophysics & Planetary Physics, University of California, Los Angeles, Calif. 90024.

BERGER, DR. RALPH J, b. Vienna, Austria, Sept. 16, 37; m. 63; c. 1. PSYCHOLOGY. B.A, Cambridge, 60, M.A, 64; Ph.D.(psychol), Edinburgh, 63. Res. asst. psychol, Edinburgh, 60-63; res. assoc, Nat. Insts. Health, 63-65; asst. res. anatomist, CALIFORNIA, Los Angeles, 65-68, ASST. PROF. PSYCHOL, SANTA CRUZ, 68- Nat. Center Sci. Res, France bursary, 63; vis. asst. prof, Puerto Rico, 63-64. R.A.F, 55-57. Asn. Psychophysiol. Study Sleep; Soc. Psychophysiol. Res; Brit. Psychol. Soc. Psychophysiology of sleep and dreaming; visual perception. Publ: Tonus of extrinsic laryngeal muscles during sleep and dreaming, Science, 61; Experimental modification of dream content by meaningful verbal stimuli, Brit. J. Psychiat, 63; When is a dream is a dream is a dream?, Exp. Neurol, 67. Address: Crown College, University of California, Santa Cruz, Calif. 95060.

BERGER, DR. RICHARD, b. Mineola, N.Y, May 29, 19; m. 57; c. 2. ECONOMICS, MARKETING. B.A, N.Y. Univ, 40, Ph.D.(mkt), 55; M.A, Columbia, 41. Statistician, Nat. Bur. Econ. Res, 41; economist & statistician, Off. Price Admin, 42-43; Mkt. res. analyst, Dun & Bradstreet, 46-50; sales analyst, Gen. Aniline & Film Corp, 50-60, mgr. econ. res, 60-65; DIR. MKT. & PLANNING, SINCLAIR & VALENTINE CO, 65- Instr, eve. sch, Rutgers, 49-; City Col. New York, 55- U.S.N, 43-46, Lt. Statist. Asn; Mkt. Asn; Chem. Mkt. Res. Asn; Asn. Bus. Econ; Chem. Indust. Asn. Chemical market research; forecasting techniques. Publ: The location of retail outlets, Dun's Rev; The dynamic dye & pigment industry, Chem. Week; Several of the forecasting techniques in use today, Commercial & Financial Chronicle. Address: 284 Hamilton Rd, Rockville Centre, N.Y. 11570.

BERGER, DR. SEYMOUR MAURICE, b. Brooklyn, N.Y, Jan. 7, 28; m. 52; c. 2. PSYCHOLOGY. B.A, Okla. State, 49; M.A, Columbia, 50; Ph.D.(psychol), Cornell, 59. Res. officer PSYCHOL, Air Force Personnel & Training Res. Center, Tex, 52-55; instr, Trinity Col, 58-59; INDIANA, 59-62, asst. prof, 62-66, ASSOC. PROF, 66- U.S.N, 45-46; U.S.A.F, 51-55, 1st Lt. Psychol. Asn. Social learning. Publ: Conditioning through vicarious instigation, Psychol. Rev; Vicarious aspects of matched-dependent behavior, In: Miami University symposium on social behavior: social facilitation and imitation behavior, Allyn & Bacon, 68; co-auth, S-R theory in contemporary social psychology, In: Handbook of social psychology, Addison-Wesley, rev. ed, 68. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

BERGER, PROF. STANLEY, b. New York, N.Y, May 9, 23; m. 50; c. 3. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 50; City Col. New York, 51; M.A, Kansas, 55, Ph.D, 57. Res. assoc, bur. child res, Kansas, 56-57; asst. prof, PSYCHOL, West Virginia, 57-59; New Hampshire, 59-63; PROF. & CHMN. DEPT, RHODE ISLAND, 63- Mem. bd. dirs, Behav. Sci. Center, 66- U.S.N, 43-46. AAAS; Psychol. Asn; Soc. Res. Child Develop. Personality variables in educational achievement; personality variable in perceptual processes; differential diagnosis; development of evaluation techniques for screening children-head start. Publ: Co-auth, Increments and consistency of performance in four repeated Rorschach administrations, J. Proj. Tech; The influence of pre-maturity upon school performance, Am. J. Ment. Deficiency, 1/67. Address: Dept. of Psychology, University of Rhode Island, Kingston, R.I. 02881.

BERGERON, PROF. JOHN A, Econ, Economet, see 10th ed, Soc. & Behav. Vols.

BERGERON, DR. W(ILBUR) LEE, b. New Orleans, La, Aug. 29, 25; m. 49; c. 1. PSYCHOLOGY. B.A, La. Col, 46; M.A, Peabody Col, 47; Ed.D.(ed, guid), Arkansas, 53. Asst. prof. psychol, La. Col, 47-51; asst. counseling center, Arkansas, 51-53; assoc. prof. psychol, LA. POLYTECH, 53-65, CHMN. DEPT. PSYCHOL, 65-, CHMN. DIV. ED. RES, 67-, psychol. adv, 63-65. Psychologist, La. State Colony & Training Sch, 49. U.S.A.F.R, 51-,

Maj. Psychol. Asn; Personnel & Guid. Asn. Juvenile delinquency; predictive factors in academic success; reading improvement; development of programed courses in psychology of adolescence. Publ: Juvenile delinquency in Rapides parish; Prerequisites of counseling. Address: Dept. of Psychology, Louisiana Polytechnic Institute, Ruston, La. 71270.

BERGER-VOESENDORF, DR. ALFRED VICTOR, b. Vienna, Austria; nat. ECONOMICS. Juris utriusque, Breslau, 22; Dr. jur, Vienna, 24; Dr. habil. (finance, for. trade), Utrecht, 38. Prof. lectr. pub. finance & for. trade, Utrecht, 38-39; head, Austrian Govt. in exile, London, 39-45; lectr. foreign trade for Drummond Prof, Oxford, 45; dir, Bank of Morocco, London, 45-46; prof. econ. & bus. admin. & head dept, Farouk Univ, Egypt, 46-48; prof. econ, Gonzaga, 48-53; vis. prof, Univ. of the Andes, Colombia, 53; La Salle Col, 54-56; Ga. State Col, 56-59; chief regional econ. anal, U.S. Army Corps Engrs, 62-63; PROF. ECON. & FINANCE, SACRED HEART, 65- Dir, Bank Credit Gen. Domestique, Brussels, 38-39. Consult, Centre Danubien, French For. Off, 39-40; Polish Govt. in Exile, 44-46; Arab League, 46-48; UN Tech. Assistance, 51-; World Bank, 52-; Agency Int. Develop, 57-; UNESCO, 62-; econ. consult, 65- Mem. bd, Austrian Inst. Appl. Econ, 51-; mem. bionomic Res. Found. Am. Econ. Asn; Royal Econ. Soc. Theory of economic policy; foreign trade; location of industry. Publ: Theory of economic policy in the interventionist state & Pathology of foreign trade, Imprimeries Egyptiennes, 47; Analysis of the mixed economy, using the sub-model technique, Am. Inst. Res, 52. Address: Dept. of Economics & Finance, Sacred Heart University, Bridgeport, Conn. 06604.

BERGIN, DR. ALLEN E, b. Spokane, Wash, Aug. 4, 34; m. 55; c. 5. PSYCHOLOGY. B.S, Brigham Young, 56, M.S, 57; Ph.D.(psychol), Stanford, 60. U.S. Pub. Health Serv. res. fel, Wisconsin, 60-61; asst. prof. CLIN. PSYCHOL, TEACHERS COL, COLUMBIA, 61-64, ASSOC. PROF, 64- Nat. Inst. Ment. Health res. contract, 67; vis. lectr, Utah, summer 66. Consult, U.S. Vet. Admin, 62-; field assessment officer, Peace Corps, 62-67. Psychol. Asn. Psychotherapy and behavior change; attitude change; self-regulation and self-control. Publ: The effects of psychotherapy: negative results revisited, J. Counseling Psychol, 10/63; Some implications of psychotherapy research for therapeutic practice, Int. J. Psychiat, 3/67; An empirical analysis of therapeutic issues, In: Counseling & psychotherapy, McGraw, 67. Address: Box 20, Teachers College, Columbia University, New York, N.Y. 10027.

BERGIN, PROF. THOMAS PATRICK, b. Watertown, N.Y, Aug. 19, 23; m. 54; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Notre Dame, 45; M.A, Vermont, 47; D.S.S, Syracuse, 58. Asst. prof, St. Michael's Col, 46-47; BUS. ADMIN, NOTRE DAME, 47-55, head dept, 52-63, assoc. prof, 55-60, JESSE JONES PROF, 60-, DEAN CONTINUING ED, 63- Consult, off. planning & res, area redevelop. admin, U.S. Dept. Commerce, 61- Econ. Asn; Statist. Asn; Mgt. Asn; Soc. Qual. Control. Statistics; government business; industrial development and economic growth. Publ: Regional imbalances, Symp. on Pope's Encyclical Mater et Magestra, Univ. Notre Dame, 7/62; The community's role in a program for economic growth, Ind. Bus, 11/62; Christian conduct of economic affairs, 10/62. Address: Box 72, University of Notre Dame, Notre Dame, Ind. 46556.

BERGMAN, PROF. DANIEL V(ERDUN), b. Williston, N.Dak, Feb. 6, 19; m. 49; c. 2. PSYCHOLOGY, HUMAN RELATIONS. Oregon, 37-40; fel, Chicago, 49-50, A.M, 50. Asst, Chicago, 47-48, 51-52, mem. courtesy staff, counseling center, 49-50; res. psychologist, Mkt. Facts, Inc, 52; mgr, Territorial Survs, Hawaii, 53-55; dir. res. & psychol. servs, Hawaiian Econ. Serv, 55-57; asst. prof. PSYCHOL, CENT. COL.(IOWA), 58-64, ASSOC. PROF, 65- Counsr, Chicago Psychol. Inst, 51-52; res. psychologist, Dan E. Clark, II & Assocs, Calif, 52. Consult, Hawaiian Econ. Serv, 54-55. U.S.A, 43-45. Psychol. Asn. Process of client-centered psychotherapy; cultural influences in intelligence test performance; public opinion research; group dynamics. Publ: Readers of plantation publications: a readership survey manual & Hawaii poll of social and economic opinion, Hawaiian Econ. Serv; Counseling method and client responses, J. Consult. Psychol. Address: 818 Huber St, Pella, Iowa 50219.

BERGMAN, DR. PAUL, Clin. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

BERGMAN, DR. W(ALTER) G(ERALD), Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

BERGMANN, PROF. GUSTAV, Psychol, see 10th ed, Soc. & Behav. Vols.

BERGMANN, PROF, JOHN F(RANCIS), b. Los Angeles, Calif, Oct. 8, 28. GEOGRAPHY. A.B, California, Los Angeles, 50, Doherty Found. fel, 54, Ph.D, 59; M.A, Texas, 52. Assoc. GEOG, California, Los Angeles, 56-57; asst. prof, Southern Methodist, 57-60; ALBERTA, 60-63, ASSOC. PROF, 63- Geog. Soc; Asn. Am. Geog; Can. Asn. Geog. Cultural and historical geography in Middle America; cultural geography of Cacao in aboriginal American and its commercialization in early Guatemala. Publ: Cacao and its production in Central America, Tijdschift voor Economische en Sociale Geografie. Address: Dept. of Geography, University of Alberta, Edmonton, Alta, Can.

BERGMANN, DR. RICHARD B(LAINE), b. Brooklyn, N.Y, Jan. 26, 29; m. 58; c. 2. PSYCHOLOGY. B.A, Bard Col, 50; M.A, Columbia, 51, Ed.D, 55. Asst. supvr. admin. training, Equitable Life Assurance Soc, 51-52; coordinator student activities, Hofstra Col, 54-56; instr. communication skills, Boston, 56-58, asst. prof. psychol. & guid, 58-60; asst. prof. PSYCHOL. & asst. dean of students, San Francisco State Col, 60-63; ASSOC. PROF. & DEAN OF STUDENTS, SOUTHAMPTON COL, LONG ISLAND, 63- Lectr, teachers col, Columbia, 54-55. Psychol. Asn; Personnel & Guid. Asn; Ord. Asn. Role-playing as an educational method; reading and study skills instruction; student personnel administration. Publ: Contrib. auth, Basic Study Skills. Address: Southampton College, Long Island University, Southampton, N.Y. 11968.

BERGSON, PROF. ABRAM, b. Baltimore, Md, Apr. 21, 14. ECONOMICS. A.B, Hopkins, 33; Sheldon traveling fel, Harvard, 39-40, Ph.D, 40. Instr. econ, Harvard, 37-38, 39-40; asst. prof, Texas, 40-42; economist, Fed. Govt, 42-46; vis. assoc. prof. ECON, Columbia, 46-47, assoc. prof, 47-50, PROF, 50-56; HARVARD, 56-, DIR. RUSSIAN RES. CENTER, 64- Ford fel, Stanford, 63-64; fel, Behav. Sci. Center. Dir-at-large, Soc. Sci. Res. Coun, 62-, mem. cmt. econ. of China, 61-, chmn. joint cmt. Slavic Studies, Soc. Sci. Res. Coun-Am. Coun. Learned Socs, 60-61. Consult, U.S. Dept. State, 44-46; Rand Corp, 48-; U.S. Off. Sci. & Tech, 63- Mem. soc. sci. adv. bd, U.S. Arms Control & Disarmament Agency, 65- Econ. Asn; fel. Economet. Soc; Philos. Soc; fel. Am. Acad. Arts & Sci. Soviet economics; economic theory. Publ: Real national income of Soviet Russia since 1928; Economics of Soviet planning, Yale, 64; Essays in normative economics, Harvard, 66. Address: 113 Walker St, Cambridge, Mass. 02138.

BERGSTEN, C(ARL) FRED(ERICH), b. Brooklyn, N.Y, Apr. 23, 41; m. 62. ECONOMICS, INTERNATIONAL RELATIONS. A.B, Cent. Methodist Col, 61; Woodrow Wilson fel. & M.A, Fletcher Sch. Law, 62, Crown Zellerbach Found. fel. & M.A.L.D, 63. Int. economist, U.S. Dept. State, 63-66, asst. chief, int. payment div, 66-67; VIS. FEL, COUN. FOR. RELS, 67- Consult, U.S. Treas. Dept, U.S. Dept. Defense & U.S. Dept. Commerce, 68- Econ. Asn. United States balance of payments; international monetary system. Publ: The future of the international roles of the dollar, Coun. For. Rels, Praeger, (in press); A new monetary system?, Reporter, 4/68; Atlantic monetary relations: a proposed initiative, For. Affairs, 7/68. Address: 500 E. 77th St, Apt. 1822, New York, N.Y. 10021.

BERGSTEIN, DR. HARRY B(ENJAMIN), b. Sag Harbor, N.Y, Dec. 30, 16; m. 50; c. 3. EDUCATIONAL & COUNSELING PSYCHOLOGY, GUIDANCE. A.B, State Univ. N.Y, 39, M.A, 47; fel, N.Y. Univ, 59-60, Ed.D.(counseling), 60. Teacher, Farmingdale High Sch, N.Y, 45-47; Kings Park Cent. Sch, 47-51; HUNTINGTON PUB. SCHS, 51-56, guid. counsr, 56-59, GUID. DIR, 60- Lectr, N.Y. Univ, 60-61; vis. lectr, City Univ. N.Y, 67-68; summers, lectr, sch. ed, N.Y. Univ, 61, vis. assoc. prof, Rochester, 62 & 63, vis. prof, State Univ. N.Y. Col. Oneonta, 64-66. U.S.A, 41-45, Sgt. Psychol. Asn; Personnel & Guid. Asn; Voc. Guid. Asn; Asn. Counsr. Ed. & Supv. Role of parents in the counseling process of adolescents. Publ: The parent and the school counselor, Voc. Guid. Quart, 65; Individual parent conferences, The Sch. Counsr, 65; co-auth, Day to day problems, In: School counseling 1967-a view from within, Am. Personnel & Guid. Asn, 67. Address: 114 Folsom Ave, Huntington Station, N.Y. 11746.

BERGSTROM, DR. THEODORE C, b. Cambridge, Minn, Aug. 27, 40. ECONOMICS. B.A, Carleton Col, 62; Ph.D.(econ), Stanford, 68. ASST. PROF. ECON, WASHINGTON (ST. LOUIS), 66- Econ. Asn; Economet. Soc. Economic theory. Address: Dept. of Economics, Washington University, St. Louis, Mo. 63130.

BERK, DR. NORMAN, b. Chicago, Ill, Aug. 6, 18; m. 45; c. 2. PSYCHOLOGY. B.S, Chicago, 39; M.S, Illinois, 40; Ph.D.(psychol), N.Y. Univ, 49. Group therapist, Levittown Adult Ed. Prog, 52-55; instr. PSYCHOL, ADELPHI, 56, ASSOC. PROF, 62- Private practice, 50- Psychologist, Vet. Admin. Hosp, Northport, N.Y, 49- Consult, Vet. Admin, 66- U.S.A.A.F, 42-45. Psychol. Asn. Clinical psychology; group therapy. Address: 14 St. Andrews Dr, Huntington, N.Y. 11743.

BERK, DR. ROBERT H(AROLD), Math. Statist, see 11th ed, Phys. & Biol. Vols.

BERK, DR. ROBERT L(LOYD), b. Boston, Mass, Nov. 22, 26; m. 56; c. 2. EDUCATIONAL & COUNSELING PSYCHOLOGY. B.S, Tufts, 49, M.A, 50; Ed.D.(ed. psychol), Boston, 57. Psychologist, Bridgewater State Farm Prison, Mass, 49-50; mem. staff, reading clin, Boston, 51-52; instr. PSYCHOL. & REMEDIAL READING, MASS. COL. OPTOM, 53-62, ASST. PROF, 62- Ed. psychologist, Mass. Eye & Ear Infirmary, 54-62; lectr, grad. sch, Northeastern, 54-64. Private practice, 50-; mem. consult. staff, Bournewood Hosp, 52-; consult. psychologist, pub. schs, Amesbury, 57-64; Pepperell, 57-; Natick, 59- Mem, Coun. Except. Children. U.S.N, 45-46. Psychol. Asn; fel. Asn. Ment. Deficiency; fel. Acad. Optom. Reading disabilities; measurement of abilities of sensory and physically handicapped; psychoeducational disturbances; parent-child relationships; measurement of developmental motor proficiency. Publ: Comparison of performance of subnormal, normal and gifted children on the Oseretsky tests of motor proficiency; co-auth, Functional hearing loss in children, New Eng. J. Med; auth, The psychological impact of contact lenses on children and youth, J. Am. Optom. Asn, 63. Address: 1265 Beacon St, Brookline, Mass. 02146.

BERKE, LEONARD M, b. New York, N.Y. ECONOMICS. A.B, Brooklyn Col, 40; M.A, George Washington, 48. BUS. ECONOMIST, ANTITRUST DIV, U.S. DEPT. JUSTICE, 48- U.S.A, 43-46. Econ. Asn. Industrial organization and market structure; government and business; price theory. Address: 6524 Elgin Lane, Bethesda, Md. 20034.

BERKELEY, DR. MARVIN H(AROLD), b. St. Louis, Mo, Oct. 22, 22; m. 47; c. 4. PSYCHOLOGY. Ph.D.(psychol), Washington (St. Louis), 52. Res. psychologist, human resources res. center, Lackland Air Force Base, Tex, 51-54; mgr. res. & develop, Perceptual Develop. Labs, Inc, Mo, 54-57; personnel dir, TEX. INSTRUMENTS, INC, 57-62, dir. corp. personnel admin, 62-63, CORP. PERSONNEL DIR, 63- Mem, Presidential Task Force on Career Adv. in Fed. Serv, 66-67; personnel adv. coun, Nat. Indust. Conf. Bd. U.S.N.R, 43-46. Psychol. Asn; Electronic Industs. Asn. Audio-visual training; evaluation and measurement. Publ: Comparison between the empirical and rational approaches for keying a heterogeneous test; Human Resources Res. Center Res. Bull; Method for developing equivalent forms of tests of complex functions, Ed. & Psychol. Measurement; Comparison of the present-day techniques for teaching advanced reading. Address: 13958 Hughes Lane, Dallas, Tex. 75240.

BERKES, PROF. NIYAZI, b. Cyprus, Sept. 21, 08; m. 55; c. 1. SOCIOLOGY. Lic-ès-lettres, Istanbul, 31; fel, Chicago, 35-39. Asst. prof. sociol, Ankara, 39-51; assoc. prof. ISLAMIC SOCIOL, INST. ISLAMIC STUDIES, McGILL, 52-64, PROF, 64- Mem, Can. Inst. Int. Affairs. Soc. Sci. Study Relig; Int. Sociol. Asn; Impact of Western civilization upon Muslim societies; secu-

larism and secularization; intellectual and ideological movements in Muslim countries. Publ: Turkish Nationalism and Western civilization, Columbia, 59; The development of secularism in Turkey, McGill, 64; contrib, Islam and the West. Address: 3 Cedar Ave, Pointe Claire, Que, Can.

BERKES, PROF. ROSS N(ORTH), b. Cleveland, Ohio, Sept. 4, 13; m. 41; c. 2. INTERNATIONAL RELATIONS. A.B, George Washington, 37; A.M, Columbia, 43; Ph.D, Southern California, 43. From assoc. prof. to PROF. INT. RELS, SOUTHERN CALIFORNIA, 47-, DIR. SCH. INT. RELS, 49- Prof, U.S. Naval Intel. Sch, D.C, 48; vis. prof, George Washington, 50. Consult, Dept. State, D.C, 58. U.S.N, 43-46, Lt. Soc. Int. Law; Polit. Sci. Asn. International relations of Latin America. Publ: Co-auth, Diplomacy of India; contrib. ed, Current history. Address: School of International Relations, University of Southern California, Los Angeles, Calif. 90007.

BERKHOFER, DR. ROBERT FREDERICK, JR, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BERKHOUSE, DR. RUDOLPH G(EORGE), b. Mayport, Pa, Aug. 12, 19; m. 40. PSYCHOLOGY. B.S, Ohio State; Ph.D.(psychol), American Univ, 65. Psychologist, U.S. Employ. Serv, 40-47; RES. PSYCHOLOGIST, U.S. DEPT. ARMY, 47- Psychol. Asn; Psychomet. Soc. Social science research planning and management; social science foreign area research; intercultural reaction dynamics; psychological and linguistic measurement; group interaction; criterion construction. Publ: Development and evaluation of prototype army language proficiency tests; Effect of item construction principles on difficulty, reliability and validity; Development and validation of a battery for predicting suitability for special forces, Am. Psychologist. Address: 437 Monticello Blvd, Alexandria, Va. 22305.

BERKIS, DR. ALEXANDER VALDONIS, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BERKLEY, DR. ELIOT S, b. Kansas City, Mo, Oct. 12, 24; m. 58; c. 2. POLITICAL SCIENCE. B.A, Harvard, 47; M.A, Princeton, 49, Ph.D.(polit), 52. Lectr. hist. & govt, Univ. Kansas City, 52-59, admissions counsr, 54; v.pres. develop, Kansas City Art Inst. & Sch. Design, 60-61, dean col, 61-65, instr. soc. sci, 56-59, dean admin, 59-60; EXEC. DIR, INT. RELS. COUN, 55-60, 65- Asst. to dirs. & consult, Minn. Orientation Center, Minnesota, 67. Ed, Int. Trade & Int. Rels. News, 56. Chmn. faculty develop. grants cmt, Kansas City Regional Coun. Higher Ed, 63-65. U.S.A, 43-46. Polit. Sci. Asn; Hist. Asn; Am. Soc. Int. Law; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. American foreign policy; twentieth century Germany; international relations. Address: 1014 W. 63rd St, Kansas City, Mo. 64113.

BERKMAN, PROF. HERMAN G, b. Monticello, N.Y, Apr. 29, 23. URBAN ECONOMICS & PLANNING. B.A, N.Y. Univ, 45; Chicago, 45-46; M.A, Wisconsin, 54, Ph.D.(econ), 56. Analyst, Regional Planning Asn, N.Y, 42-45; econ. analyst, Univ. Wisconsin, 45-46; res. analyst, Soc. Sci. Res. Cmt, Univ. Chicago, 46-47; housing analyst, Rockefeller Found. Housing Grant, Madison, Wis, 47-50; dir. planning & develop, Chicago Land Clearance Cmn, 50-54; spec. asst. to exec. dir, 54; vis. lectr. planning, Illinois, Urbana, 56; PROF. econ, Wisconsin, Milwaukee, 56-62; PLANNING, GRAD. SCH. PUB. ADMIN, N.Y. UNIV, 62- Dir. community impact study, NASA & lectr. exec. develop. prog, N.Y. Univ, 66-67; lectr, Mgt. Training Seminar, State N.J, 66-67. Summer instr, Brooklyn Col, 45. Planning consult. to Mayor, City Madison, Wis, 56-57; consult, Metrop. Develop. Cmt, 57. Mem. pub. info. syst, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun. Inst. Elec. & Electronics Eng; Opers. Res. Soc; Inst. Mgt. Sci; Statist. Asn; Economet. Soc; Soc. Gen. Syst. Res; Regional Sci. Asn; Inst. Planners. Regional science; area development; urban housing; interindustry economics; location theory; city structure and growth; urbanism. Publ: Our urban plant, exten. div, Univ. Wisconsin, 63; The economics of automatic data processing in public administration, In: Economics of automatic data processing, North Holland Pub. Co, 65; Governing urban society: new scientific approaches, Monogr. 7, Am. Acad. Polit. & Soc. Sci, 5/67. Address: Dept. of Planning, Graduate School of Public Administration, New York University, 4 Washington Square N, New York, N.Y. 10003.

BERKMAN, SIGMUND S(HAPIRO), b. Syracuse, N.Y, Jan. 19, 24; m. 44; c. 2. ECONOMICS. A.B, Syracuse, 49. Statistician, U.S. Dept. Army, 49-50; economist, U.S. Bur. Mines, 50-54; employ. analyst, U.S. Bur. Labor Statist, 54-58; regional economist, U.S. Bur. Employ. Security, 58-61, labor economist, 61-62; economist, Off. Manpower, Automation & Training, Regional Econ. Develop. Planning Staff, U.S. DEPT. LABOR, 62-64, chief, 64-65, CHIEF OFF. MANPOWER PLANNING EVAL. & RES, DIV. ANAL. & REPORTS, 65- U.S.A, 44-46. Econ. Asn; Economet. Soc. Econometrics; business cycles; manpower. Publ: A study of the demand for tungsten; A study of the demand for platinum; Appalachia: road to recovery, Manpower Facts, U.S. Dept. Labor, 65. Address: 3914 Virgilia St, Chevy Chase, Md. 20015.

BERKO, MARTIN J(OSEPH), b. Cleveland, Ohio, Nov. 29, 25; m. 51. PSYCHOLOGY. B.Sc, Western Reserve, 48; M.A, Wichita, 51; U.S. Pub. Health Serv. fel, Cornell, 63-65, Ph.D.(psychol), 65. Psychometrist, Inst. Logopedics, 50-52, psychologist, 52-63; RES. ASSOC. PSYCHOL, CORNELL, 65- Clin. consult, Spec. Children's Center, Ithaca, N.Y, 63-; United Cerebral Palsy, N.Y. State, 65- AAAS; Psychol. Asn; Int. Soc. Cybernet. Med; N.Y. Acad. Sci. Communication; language and thought processes in brain-damaged individuals; perception and learning; intellectual development of children with cerebral palsy; bionics; cybernetics; automated learning. Publ: Co-auth, Communication training in childhood brain damage, C.C. Thomas, 66; auth, Measurement of intelligence in children with cerebral palsy, J. Pediat; psychological measurement in speech correction, J. Child Psychiat. Address: Graduate Research Lab, Dept. of Psychology, Cornell University, Ithaca, N.Y. 14850.

BERKOV, PROF. ROBERT H(ENRY), b. Allentown, Pa, Jan. 8, 08; m. 31; c. 1. PUBLIC ADMINISTRATION, INTERNATIONAL RELATIONS. A.B, Colorado, 28; M.S, Southern California, 53; D.Sc, Geneva, 57. Chief correspondent, United Press Asn, China, 34-38; publisher, San Gabriel Sun, Calif, 38-47; chief policy adv. for. affairs, U.S. Dept. State, 48-50; assoc. prof. PUB. ADMIN. & INT. RELS, SOUTHERN CALIFORNIA, 54-63, PROF, 63-, dir. int. progs, sch. pub. admin, 60-62, asst. dean, 62. George C. Marshall prof, Col. Europe, 64-65. Chief Far East News & Features Bur, U.S. Off. War Info, 43-45; Japanese Press & Pub, gen. hqs, Supreme Comdr. Allied Powers, 45-46; asst. dir. off. info. & ed. exchange, U.S. Dept. State, 46-48. Mem. pub. admin. surv. mission, Int. Coop. Admin, Pakistan, 60-; chief pub. admin. adv. group, Govt. Pakistan, 62-64; mem, U.S. del, conf. pub. admin. Cent. Treaty Org, Lahore, 64. Soc. Pub. Admin; Polit. Sci. Asn; Soc. Int. Develop; Pakistan Inst. Int. Affairs. International and comparative administration; United States foreign policy; international organization and law. Publ: Strong man of China: a biography of Chiang Kai-shek; World Health Organization. Address: School of Public Administration, University of Southern California, Los Angeles, Calif. 90007.

BERKOWITZ, DR. BERNARD, b. New York, N.Y, Oct. 3, 09. PSYCHOLOGY. B.S, N.Y. Univ, 30, Ph.D.(psychol), 37; Columbia, 30-33. Clin. asst. psychologist, Children's Court, New York, 32; hosp, L.I. Col. Med, 32-36, psychologist, 36-43, asst. instr. pediat, 36-38, instr, 38-43; chief psychologist, Vet. Admin. Hosp, 47-64; PSYCHOLOGIST, 64- Clin. assoc, Rochester, 48-; instr, Alfred, 59- Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychology of thinking; alcoholism; effects of drugs on emotional processes. Publ: Wechsler-Bellevue performance of white males past age 50; Artane, stramonium and nonchemotherapy in paralysis agitans; Changes of intellect with age, J. Genetic Psychol, 63, 64 & 65. Address: 7610 Montgomery Ave, Melrose Park, Pa. 19126.

BERKOWITZ, PROF. HOWARD, b. U.S, July 31, 27. PSYCHOLOGY. A.B, N.Y. Univ, 49; Brooklyn Col, 49-51; A.M, MacMurray Col, 54; Ph.D, Texas, 57. Intern clin. psychol, Jacksonville State Hosp, Ill, 51-52, psychologist, 52-53; instr. ed. psychol, Texas, 56-57; asst. prof, Miami (Ohio), 57-63; PROF. PSYCHOL, STATE UNIV. N.Y. COL. ONEONTA, 63-, HEAD DEPT, 66- Chief psychologist, Butler County Court Domestic Rels, 60-; private practice, 65- Consult. col. proficiency exam. ed. psychol, State Dept. Ed. N.Y, 66- Ed. Res. Asn; Nat. Soc. Study Ed; Psychol. Asn. Human development; maturity and old age; juvenile aggression and delinquency; educational television. Publ: Co-auth, Personality and adjustment in middle age, Atherton, 64; Partial construct validation of scale developed to reflect teaching motives, J. Ed. Res, 67; A criterion for educational research, J. Ed. Psychol, 2/63. Address: Dept. of Psychology, State University of New York College at Oneonta, Oneonta, N.Y. 13820.

BERKOWITZ, PROF. LEONARD, b. New York, N.Y, Aug. 11, 26; m. 49; c. 2. PSYCHOLOGY. B.A, N.Y. Univ, 48; Ph.D.(psychol), Michigan, 51. Res. psychologist, crew res. lab, Human Resources Res. Center, 51-55; from asst. prof. to PROF. PSYCHOL, WISCONSIN, MADISON, 55- Psychol. Asn. Determinants of aggressive behavior, including effects of media-presented violence; conditions affecting social responsibility and willingness to help other people. Publ: Aggression: a social-psychological analysis, McGraw, 62; Development of motives and values in the child, Basic Books, 64; Roots of aggression: the frustration-aggression hypothesis reexamined, Atherton, 68. Address: Dept. of Psychology, University of Wisconsin, Madison, Wis. 53706.

BERKOWITZ, PROF. MONROE, b. Exeter, Pa, Mar. 9, 19; m. 42; c. 1. ECONOMICS. A.B, Ohio, 42; A.M, Columbia, 46, Ph.D.(econ), 51. Assoc. economist, Nat. War Labor Bd, 42-44; tech. adv, Local 669, United Automobile Workers, 44-45; instr. ECON, RUTGERS, 45-49, asst. prof, 49-55, assoc. prof, 55-60, PROF, CHMN. DEPT. & DIR. BUR. ECON. RES, 60- Consult, Nat. Insts. Rehab. & Health Serv, D.C, 64-; Bur. Labor Standards, U.S. Dept. Labor, 64-67; Voc. Rehab. Cmn, N.J. Dept. Labor & Indust, 66- Mem, N.J. Gov. Econ. Policy Coun, 66- Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Economics of human resources. Publ: Workmen's compensation, the New Jersey experience, Rutgers Univ, 60; ed, Rehabilitating the disabled worker: a platform for action, Rutgers Univ. Bur. Econ. Res, 65; auth, The processing of workmen's compensation cases, Bur. Labor Standards, U.S. Dept. Labor, 67. Address: Dept. of Economics, Rutgers, The State University, New Brunswick, N.J. 08903.

BERKOWITZ, DR. MORRIS I(RA), b. Brooklyn, N.Y, Mar. 7, 31; m. 54; c. 1. SOCIOLOGY. B.S, Purdue, 52, M.S, 54; M.A, Yale, 56, Off. Naval Res. grant & Ph.D, 58. Human factors scientist syst. res. & design, Syst. Develop. Corp, 57-60, group head man-machine syst. res, 60-62; asst. prof. SOCIOL, PITTSBURGH, 62-63, ASSOC. PROF, 63- Lectr, sch. gen. studies, Columbia, 60-61; vis. prof, Chinese Univ. Hong Kong, 67- Sociol Asn; Acad. Polit. & Soc. Sci. Human behavior in command and control systems; rural-urban transition in Hong Kong; religious belief systems. Publ: Co-auth, Social scientific studies of religion, Univ. Pittsburgh, 67. Address: Dept. of Sociology, University of Pittsburgh, Pittsburgh, Pa. 15213.

BERKOWITZ, DR. NORMAN, Psychol, see 10th ed, Soc. & Behav. Vols.

BERKOWITZ, DR. PEARL H(ENRIETTE), b. New York, N.Y, Sept. 9, 21; m. 45. PSYCHOLOGY. B.A, Queens Col.(N.Y), 42; M.A, Columbia, 44; Ph.D.(psychol), N.Y. Univ, 57. Teacher, Bellevue Psychiat. Hosp, New York, 47-56, acting asst. prin, 56-60; PRIN, EDENWALD SCH, N.Y, 60-; LECTR, CHILD & ABNORM. PSYCHOL, QUEENS COL.(N.Y), 58- Private practice, 60- Psychol. Asn; N.Y. Acad. Sci. Detection and diagnosis of child psychopathology; special techniques for education of the emotionally handicapped child; physiological aspects of mental illness in children; juvenile delinquency. Publ: Co-auth, Disturbed child, N.Y. Univ, 60 & Public education for disturbed children in New York City, C.C. Thomas, 67; auth, Some psychophysical aspects of mental illness in children, Genetic Psychol. Monogr. Address: 46-36 Hanford St, Douglaston, N.Y. 11362.

BERKOWITZ, DR. WILLIAM R, b. Albany, N.Y, Sept. 21, 39; m. 62; c. 1. PSYCHOLOGY. B.A, Cornell, 61; Ph.D.(psychol), Stanford, 65. Vis. lectr, PSYCHOL, Chulalongkorn, Bangkok, 65-66; ASST. PROF. LAFAYETTE COL, 66- Motivation; sensation-seeking behavior and its relation to prior environments; behavior theory. Publ: Use of the sensation-seeking scale with Thai subjects, Psychol. Reports, 4/67. Address: Dept. of Psychology, Lafayette College, Easton, Pa. 18042.

BERKSHIRE, JAMES ROGER, b. Logansport, Ind, Mar. 20; 07; m. 31; c. 4. PSYCHOLOGY. B.A, Ohio State, 46, M.A, 47. Chief counsr, occup. opportunities serv, Ohio State, 46-48; res. assoc, Richardson, Bellows, Henry & Co, Fla, 48-49; chief training res. br, tech. training res. lab, U.S. Dept. Air Force, Ill, 49-55; asst. head psychol. dept, U.S. Naval Sch. Aviation Med, PENSACOLA, 55-63, CHIEF AVIATION PSYCHOL. DIV, NAVAL AEROSPACE MED. INST, 63- Presidential citation, 64. AAAS; Psychol. Asn. Training measurement and quality control; criteria; selection. Publ: Co-auth, Forced choice performance rating: a methodological study; Human quality control in naval air training & Measuring training progress. Address: 40 Highpoint Dr, Gulf Breeze, Fla. 32561.

BERKSON, DR. GERSHON, b. Jerusalem, Palestine, June 3, 31; U.S. citizen; m. 52; c. 2. PSYCHOLOGY. B.A, Oberlin Col, 53; M.S, Wisconsin, 55; Nat. Inst. Ment. Health fel, George Peabody Col, 55-59, Ph.D, 59. U.S. Pub. Health Serv. fel. PSYCHOL, Maudsley Hosp, London, Eng, 59-60; Yerkes Labs. Primate Biol, 60-63; res. assoc, col. med, Illinois, 63-65; ASSOC. PROF, NEWCOMB COL, TULANE, 65- Res. assoc, Ill. State Pediat. Inst, 63-65; Delta Regional Primate Res. Center, 67- Psychol. Asn. Primitive behaviors of organisms with developmental defects. Publ: Responsiveness of the mentally deficient, J. Ment. Deficiency. Address: Dept. of Psychology, Newcomb College of Tulane University, New Orleans, La. 70118.

BERKUN, DR. MITCHELL M(ARK), b. Buffalo, N.Y, June 28, 28; m. 50; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Buffalo, 48; Ph.D.(psychol), Yale, 56. Sr. res. scientist, HumRRO, U.S. Dept. Army, 56-63; assoc. prof. PSYCHOL, Alaska, 63-65; PROF. & HEAD DEPT, QUINNIPIAC COL, 65- AAAS; Psychol. Asn; Psychonomic Soc; Statist. Asn; Int. Transactional Anal. Asn. Motivation and learning; nonverbal communication; transactional analysis and its use in the classroom. Address: Dept. of Psychology, Quinnipiac College, Hamden, Conn. 06518.

BERLEW, PROF. DAVID ELMER, b. Orono, Maine, June 3, 31; m. 56; c. 3. PSYCHOLOGY. B.A, Wesleyan, 56; Soc. Sci. Res. Coun. fel, Harvard, 56-57, univ. fel. & Rantoul scholar, 57-58, Naumberg fel, 58-59, M.A, 59, Ph.D, 60. Instr. psychol, Knox Col, 59-60; ASST. PROF, Wesleyan, 60-62; INDUST. MGT, MASS. INST. TECH, 62- Staff assoc, Nat. Training Labs, 62-; dir, U.S. Peace Corps, Turkey, 65-66, Ethiopia, 66-68. Consult, Am. Tel. & Tel. Co, 59- U.S.A, 52-54. Psychol. Asn. Personality psychology, motivation, group dynamics, inter-group relations. Publ: Interpersonal sensitivity and motive strength, J. Abnorm. & Soc. Psychol; co-auth, Need for achievement and English industrial growth, Econ. Develop. & Cultural Change. Address: Sloan School of Industrial Management, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

BERLIN, DR. BRENT, b. Pampa, Tex, Dec. 20, 36; m. 57; c. 2. ANTHROPOLOGY. B.A, Oklahoma, 59; Woodrow Wilson fel, Stanford, 59-60, M.A, 60, Am. Coun. Learned Socs. summer grant, 60, Stroud fel, 60-61, Ph.D. (anthrop), 64. Instr. soc. anthrop, Harvard, 65-66; ASST. PROF. ANTHROP, CALIFORNIA, BERKELEY, 66- Anthrop. Asn; Ling. Soc. Linguistic anthropology, especially ethnoscience; ethnography of the Tzeltal; ethnobotany. Publ: Categories of eating in Tzeltal and Navaho, Int. J. Ling, 67; Tzeltal numeral classifiers: a study in ethnographic semantics, Janua Linguarum, (in press); co-auth, Covert categories and folk taxonomies, Am. Anthrop, (in press). Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

BERLIN, DR. HARVEY, b. Milwaukee, Wis, Dec 8, 25; m. 53; c. 4. PSYCHOLOGY, ANTHROPOLOGY. B.S, Wisconsin, 50; M.S, Kentucky, 56, Ph.D, 59. Trainee clin. psychol, Vet. Admin. Hosp, Lexington, Ky, 55-59; clin. psychologist, U.S. Pub. Health Serv. Hosp, 59; Jewish Voc. Serv, Milwaukee, Wis, 59-63; Vet. Admin. Center, Milwaukee, 63-66; ASSOC. PROF. PSYCHOL, CINCINNATI, 66-; CHIEF PSYCHOLOGIST, DRAKE MEM. HOSP, 66- U.S.A, 44-46, Sgt. Psychol. Asn. Family therapy; group processes; clinical psychology. Address: Drake Memorial Hospital, Galbraith Rd, Cincinnati, Ohio 45216.

BERLINER, DR. ANNA, b. Halberstadt, Germany, Dec. 21, 88; nat; m. 10. PSYCHOLOGY. Ph.D.(psychol, philos), Leipzig, 13. Psychologist, Hebrew Orphan Asylum, N.Y, 17-19; Hoshi Co, Lacto Co. & Nihon Univ, Japan, 21-24; secy. European Br, German E. Asiatic Soc, 25-32; PROF. PSYCHOL, North. Ill. Col. Optom, 46-47; PACIFIC UNIV, 49- AAAS; Psychol. Asn; Asn. Appl. Anthrop; Soc. Proj. Tech; N.Y. Acad. Sci; Int. Coun. Psychol. Perceptual and cultural psychology; psychology of advertising. Publ: Lectures on visual psychology; Distortion of straight and curved lines in geometrical fields & Spatial displacement of straight and curved lines, Am. J. Psychol. Address: 2206 B St, Forest Grove, Ore. 97116.

BERLINER, PROF. JOSEPH S(CHOLOM), b. New York, N.Y, Sept. 4, 21; m. 43; c. 3. ECONOMICS. Russian Res. Center fel. & Ph.D.(econ), Harvard, 54. Economist, Coun. Econ. & Indust. Res, Inc, 54-56; asst. prof. ECON, Syracuse, 56-63; PROF, BRANDEIS, 63- Lectr, George Washington, 54-55; Soc. Sci. Res. Coun. faculty res. fel, 60-62; Nat. Sci. Found. grant, 66-68; Ford Found. faculty res. fel, 67-68. With U.S. Coast Guard Acad, 41-43; U.S. Merchant Marine, 43-46, Lt. Comdr. Econ. Asn; Asn. Adv. Slavic Studies. Economics of Soviet Russia; economic sociology. Publ: Factory and manager in the USSR, Harvard, 57; Soviet economic aid, Praeger, 58; The feet of the natives are large, Current Anthrop, 62. Address: Dept. of Economics, Brandeis University, Waltham, Mass. 02154.

BERLINER, PROF. WILLIAM MICHAEL, b. New York, N.Y, Aug. 24, 23; m. 46. BUSINESS MANAGEMENT. B.S, N.Y. Univ, 49, M.B.A, 53, Ph.D. (bus. admin), 56. Jr. underwriter, Continental Casualty Co, 41-42, safety engr, 45-46; retail div. mgr, B.F. Goodrich Co, 49-50; asst. purchasing agent, Cutler-Hammer Inc, 50-51; instr. mgt, sch. commerce, N.Y. UNIV, 51-56, asst. prof, 56-60, CHMN. DEPT. MGT. & INDUST. RELS, 65-, PROF. MGT, SCH. COMMERCE & GRAD. SCH. BUS, 66- Ford Found. grant summer case seminar, grad. sch. bus. admin, Harvard, 60. Consult. mgt. develop, Bank N.Y, 53-58; ed, training & personnel admin, Mfrs. Hanover Trust Co, 56-; Ford Found grant consult. exec. prog, City New York, 60-61; Kellog Found. consult. exec. prog, Boys Clubs Am, 61-65; consult. mgt. develop, Merrill Lynch, Pierce, Fenner & Smith, Inc, 65- Mem. ed. conf. employee rels, Standard Oil Co.(N.J), 53. U.S.A.A.F, 42-45, 1st Lt. Acad. Mgt; Mgt. Asn; Mkt. Asn. Management development; employee training; manpower planning; organizational planning; personnel administration; administrative behavior; managerial control. Publ: Co-auth, Management of training programs, 60 & Management training: cases and principles, 68, Irwin; auth, Administrative controls human relations in administration, correspondence course, N.Y. Univ. Grad. Sch. Pub. Admin, 61. Address: Dept. of Management & Industrial Relations, New York University School of Commerce, Washington Square, New York, N.Y. 10003.

BERLO, PROF. DAVID KENNETH, b. St. Louis, Mo, Mar. 28, 29; m. 53; c. 4. COMMUNICATIONS. A.B, Illinois, 63, Ph.D.(commun), 66. Asst. prof. speech, radio & TV, Eastern Illinois, 55-56; PROF. COMMUN. & CHMN. DEPT, MICH. STATE, 56- U.S. Dept. State lectr, Orgn. Am. States, Ecuador, 66-67. U.S.A.F, 51-54, S/Sgt. Psychol. Asn; Asn. Ed. Journalism; Sociol. Asn; Asn. Pub. Opinion Res; Speech Asn. Persuasion; communication and development; managerial communication. Publ: The process of communication, Holt, 60; Communication within the university, 63 & International communication and social development, 68, Illinois State Univ. Address: Dept. of Communication, Michigan State University, East Lansing, Mich. 48823.

BERLYNE, PROF. DANIEL E(LLIS), b. Salford, Eng, Apr. 25, 24; m. 53; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Cambridge, 47, M.A, 49; fel. Yale, 51-52, Ph.D.(exp. psychol), 53. Lectr. psychol, St. Andrews, 48-52; substitute, Brooklyn Col, 52-53; from lectr. to sr. lectr, Aberdeen, 53-57; vis. assoc. prof, California, 57-58; Mem, Int. Centre Genetic Epistemology, Geneva, 58-59; vis. scientist, Nat. Inst. Ment. Health, 59-60; assoc. prof. PSYCHOL, Boston, 60-62; TORONTO, 62-63, PROF, 63- Fel. Center Adv. Study Behav. Sci, 56-57. Brit. Army, 43-46. AAAS; fel. Am. Psychol. Asn: Psychonomic Soc; Soc. Exp. Psychol; fel. Can. Psychol. Asn; fel. Brit. Psychol. Soc. Behavior theory; motivation; symbolic processes; exploratory and related behavior. Publ: Conflict, arousal and curiosity, McGraw, 60; Structure and direction in thinking, Wiley, 65; Arousal and reinforcement, In: Nebraska symposium on motivation, 67. Address: Dept. of Psychology, University of Toronto, Toronto 5, Ont, Can.

BERMAN, PROF. DANIEL M(ARVIN), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased.

BERMAN, DR. DAVID R(OBERT), b. Belvidere, Ill, June 11, 39; m. 65. POLITICAL SCIENCE. B.A, Rockford Col, 61; M.A, American Univ, 63, Nat. Defense Ed. Act. fel, 61-64, Ph.D.(govt. pub. admin), 68- Researcher, Am. law div, legis. reference serv, Library Cong, 62; Am. polit, res. div, Democratic Nat. Cmt, 63; res. assoc. local govt, Nat. League Cities, 64-66; ASST. PROF. POLIT. SCI. & ASST. DIR. INST. PUB. ADMIN, ARIZONA STATE, 66- Res. fel, Wash. Center Metrop. Studies, summer 62; lectr, American Univ, 65-66; Arizona State Faculty res. grant, summer 68. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; federal-state-local relations; state and local government; constitutional law. Publ: Interstate compact water commissions: selected case studies, Wash. Center Metrop. Studies, 62; co-auth, Credit problems of small municipalities, for state and local public facility needs and financing, Joint Econ. Cmt, U.S. Cong, 66; auth, Capital improvements programming, Nation's Cities, 3/66. Address: Dept. of Political Science, Arizona State University, Tempe, Ariz. 85281.

BERMAN, DR. EDWARD B(ERNARD), b. Lynn, Mass, June 25, 27; m. 49; c. 4. ECONOMICS. A.B, Harvard, 48, A.M, 50, Ph.D.(econ), 51. Mem. staff interindust. anal, off. statist. standards, U.S. Bur. Budget, 51-52; sect. chief, off. chief economist, U.S. Bur. Mines, 52-53; mem. staff, Rand Corp, 53-55; br. chief model bldg, C-E-I-R, Inc, Va, 55-57; mem. staff opers. anal, Melpar, Inc, 57-58; private consult, 58-59; mem. staff opers. eval. group, Mass. Inst. Tech, 59-61; head econ. anal. subdept, Mitre Corp, 61-64; private consult, 64-65; HEAD ANAL. TECH. SUBDEPT, MITRE CORP, 65- Consult, Weapons Syst. Eval. Group, 52-53; Rand Corp. & C-E-I-R, Inc, 58-59; Tech. Opers. Inc, 59; Res. Anal. Corp, Va, Inst. Defense Anal & C-E-I-R, Inc, N.Y. & Va, 64-65; Mitre Corp, 64-; Aircraft Armaments, Inc, Md, 65. U.S.N, 45-46. Econ. Asn. Military system analysis; investment theory; determinants of economic growth; logistics; interindustry analysis; monetary theory; regional analysis. Publ: Model of the procurement-repair decision for a spare item; Normative interest rate; Regional production and transporation model, Mgt. Sci. Address: 8 McKinley Rd, Marblehead, Mass. 01945.

BERMAN, DR. ISABEL R(OSENSTEIN), b. Minneapolis, Minn, Mar. 4, 09; m. 31; c. 6. PSYCHOLOGY. Ph.D.(psychol), Minnesota, 42. Personnel technician, Sch. Aviation Med, Randolph Field, Tex, 42; PSYCHOLOGIST, PUB. SCHS, 45- Psychol. Asn. Vocational interests; psychosomatic relationships; school psychology. Publ: Co-auth, A Manual of selected tests for use in public employment offices; auth, Intelligence and personality factors associated with poliomyelitis in school children, Monogr. Soc. Res. Child Develop; Graduates and drop outs of Minneapolis Vocational High School, Mimeograph Pub. Minneapolis Sch, 64. Address: 5620 Edgewater Blvd, Minneapolis, Minn. 55417.

BERMAN, DR. LOUIS A(RTHUR), b. Detroit, Mich, July 14, 21; m. 50; c. 2. PSYCHOLOGY. B.A, Wayne State, 47; M.A, Michigan, 48, Ph.D.(psychol), 57. Instr. PSYCHOL, ILLINOIS, CHICAGO, 57, asst. prof, 58-63, ASSOC. PROF, 63- Nat. Inst. Ment. Health res. grant, 63. U.S.A, 43-46. AAAS; Psychol. Asn. Counseling. Publ: Jews and intermarriage; a study in personality and culture, Yoseloff, 68. Address: Dept. of Psychology, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

BERMAN, DR. MILDRED, b. Boston, Mass, Nov. 26, 26. GEOGRAPHY. B.S.Ed, Mass. State Col. Salem, 48; M.A, Clark, 50, Ph.D.(geog), 63. From instr. to asst. prof. geog, Mass. State Col. Salem, 52-58, asst. prof, 60-61; res. cartographer, Nat. Surv, Tel Aviv, Israel, 58-59; Nat. Sci. Found. faculty fel, 61-62; ASSOC. PROF. GEOG, South. Conn. State Col, 63-66; BOSTON, 66- Asn. Am. Geog. Geography of arid lands; middle eastern urban geography; middle American settlement patterns. Publ: Israel's new frontier region—the Negev, J. Geog, 12/64; Evolution of Beersheba as an

urban center, Annals Asn. Am. Geog, 6/65; Social change among the Bedouin of Beersheba, Human Orgn, spring/summer 67. Address: Dept. of Geography, Boston University, 111 Cummington St, Boston, Mass. 02215.

BERMAN, DR. R. EDWARD, b. Detroit, Mich, Apr. 14, 18. CLINICAL & INDUSTRIAL PSYCHOLOGY. B.S, Wayne State, 39, M.A, 41, Ed.D.(guid, counseling), 53. Psychologist, U.S. Employ. Serv, Mich, 41-42; spec. instr. psychol, Wayne State, 46; clin. psychologist, Vet. Admin. Ment. Hyg. Center, Detroit, Mich, 47; exec. dir, Psychol. Consult. Serv, 48-58; PRES, PSYCHOL. SERVS, INC, 58- Consult. psychologist. U.S.A, 42-46, 1st Lt. Psychol. Asn; Personnel & Guid. Asn; Mgt. Asn; Mkt. Asn. Clinical psychology; diagnosis; personal and marital counseling; motivation and attitude studies; management organization; communications and training; personnel assessment; executive development. Address: 28600 Streamwood Lane, Southfield, Mich. 48075.

BERMAN, PROF. SIMEON M(OSES), Math, Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BERMANN, DR. ERIC A, b. Bronx, N.Y, June 12, 35; m. 59; c. 3. PSYCHOLOGY. B.S, Queen's Col.(N.Y), 56; M.A, Michigan, 57, Ph.D.(psychol), 64. CLIN. STAFF PSYCHOLOGIST, CHILDREN'S PSYCHIAT. HOSP, UNIV. MICHIGAN, 62-, LECTR. PSYCHOL, 64-, INSTR, DEPT. PSYCHIAT, 65- & SR. INVESTR, FAMILY PATTERNS RES. PROJ, 66- Consult, Grand Rapids Child Guid. Clin, Mich, 65- Psychol. Asn. Interpersonal relationships; compatibility and stability of dyadic units; social interaction; family patterns and dynamics; situational variation and behavior. Publ: Co-auth, The matching of mates, In: Cognition, personality and clinical psychology, Jossey-Bass, 67 & Nursery school behavior and later school adjustment, Am. J. Orthopsychiat, 7/67. Address: Children's Psychiatric Hospital, University of Michigan, Ann Arbor, Mich. 48104.

BERMANT, DR. GORDON, Comp. Psychol. See 11th ed, Suppl. II to Phys. & Biol. Vols.

BERNAL, DR. IGNACIO, b. Mexico City, Mex, Feb. 13, 10; m. 44; c. 4. ARCHAEOLOGY. M.S, Nat. Univ. Mexico, 47, Ph.D.(anthrop), 50; hon. archaeologist, Bd. Ed, Mex, 47; hon. Dr, Univ. of the Americas, 67. PROF. ARCHAEOL, NAT. UNIV. MEXICO, 49-; NAT. SCH. ANTHROP. & HIST, 50-, DIR. NAT. MUS. ANTHROP, 62- Prof. archaeol, Mex. City Col, 50-62; secy. gen, Ministry of Ed, 53-54; cultural counsr, Mex. Embassy, France, 54-56; dir. prehispanic monuments, Inst. Anthrop, 56-60, sub-dir, 60-62. Vis. prof, Texas, 54; vis. lectr, Sorbonne, 55; Harvard, 60. Del. from Mex. UNESCO, 55-56, mem. cmt. monuments, 56- Fel. Anthrop. Asn; fel. Soc. Am. Archaeol; fel. Am. Acad. Arts & Sci; Royal Anthrop. Inst. Gt. Brit; Mex. Anthrop. Soc.(pres, 55-); Soc. Americanistes. Mexican archaeology; bibliography of Mesoamerica; American history; ancient art. Publ: Co-auth, Ceramics of Oaxaca; auth, La cerámica de Monte Albán; El Museo Nacional de Antropologia de Mexico. Address: Dept. of Archaeology, National School of Anthropology & History, Paseo de la Reforma y Calzada de la Milla, Mexico 5, D.F.

BERNARD, DR. GUY ANDRE, b. Orleans, France, Mar. 30, 39; m. 59; c. 3. SOCIOLOGY. Lic, Sorbonne, 61, Dr.(sociol), 65. From res. asst. to assoc. prof. SOCIOL, Univ. Lovanium, Leopoldville, 61-67, ASST. PROF, LAURENTIAN UNIV, 67- Vis. prof, Univ. Lubumbashi, Congo, 67. Can. Sociol. & Anthrop. Asn; Int. Asn. of French Speaking Sociologists. Sociology of Black Africa: urbanization, family, religious and prophetic movements. Publ: Ville Africaine, familles urbaines, Mouton, 68. Address: Dept. of Sociology, Faculty of Arts & Science, Laurentian University, Sudbury, Ont, Can.

BERNARD, DR. HARVEY RUSSELL, b. New York, N.Y, June 12, 40; m. 62; c. 2. CULTURAL & LINGUISTIC ANTHROPOLOGY. B.A, Queens Col.(N.Y), 61; M.A, Illinois, 53, Nat. Defense Ed. Act fel, 63-65, Soc. Sci. Res. Coun. grant, 64-66, Ph.D.(anthrop), 68. ASST. PROF. ANTHROP, WASHINGTON STATE, 66- Wenner Gren Found. Anthrop. Res. travel & res. award, Mediterranean Social-Anthrop. Conf, Dec, 66; Nat. Sci. Found. grant, Summer Ethnol. Field Sch, 67. Fel. Anthrop. Asn; Soc. Appl. Anthrop. Peasant community economic and social structure; linguistics; Mexico and Mediterranean Europe culture areas. Publ: Greek sponge boats in Florida, Anthrop. Quart, 4/65; Otomi tones, Anthrop. Ling, 12/66; Kalymnian sponge diving, Human Biol, 5/67. Address: Dept. of Anthropology, Washington State University, Pullman, Wash. 99163.

BERNARD, DR. JACK, b. New York, N.Y, Mar. 6, 18; m. 40; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 40, Ph.D, 54; M.A, Clark, 41. Asst. human fetal behav, Samuel S. Fels Res. Inst, 41-42; psychologist, Klein Inst. Aptitude Testing, 45-49; salesman chem, DuBois Co, 49-53; asst. to pres. sales & personnel mgt, Gramm Trailer Corp, 53-55; CONSULT. PSYCHOLOGIST, 55- Lectr, Queens Col, 57-; sr. clin. psychologist, Islip Child Guid. Clin, 58; staff psychologist, Community Guid. Serv, 58-62; sch. psychologist, North Bellmore Pub. Schs, 58- U.S.A.A.F, 42-45. Psychol. Asn. Psychotherapy; psychodiagnosis; school psychology; industrial personnel evaluation. Publ: Fetal reactivity to tonal stimulation; Prediction from human fetal measures, Child Develop, 64; Achievement test norms and time of year of testing, Psychol. in Schs, 66. Address: 3705 Locust Ave, Seaford, N.Y. 11783.

BERNARD, PROF. JESSIE (SHIRLEY), b. Minneapolis, Minn, June 8, 03; m. 25; c. 3. SOCIOLOGY. A.B, Minnesota, 23, A.M, 24; Chicago, 27; Ph.D, Washington (St. Louis), 35. Statistician, U.S. Bur. Labor Statist, 36-38; PROF. SOCIOL, PA. STATE, 47- Soc. Sci. Res. Coun. grant in aid, Paris, 35. Prog. chmn, Groves Conf. Marriage & Family, 58; mem. bd, Sex Info. & Ed. Coun. U.S, 62-; Carver Found, res. arm of Tuskegee Inst, 66- Pa. State Univ. Press award, 64. Sociol. Asn.(v.pres, 54); Soc. Study Social Probs.(pres, 64). Marriage and family; conflict; community. Publ: Academic women, Pa. State Univ, 64; Marriage and family among Negroes, 66 & The sex game, 68, Prentice-Hall. Address: Dept. of Sociology, Pennsylvania State University, University Park, Pa. 16802.

BERNARD, DR. NORMAND R(AYMOND) V(INCENT), b. Winsted, Conn, May 16, 32. ECONOMICS. A.B, Assumption Col, 55; A.M, Boston Col, 57, fel. & Ph.D.(econ), 61. Lectr. econ, Boston Col, 61-62; ECONOMIST, BD. GOV, FED. RESERVE SYST, WASH, D.C, 62- Econ. Asn. Monetary policy; open market operations. Address: 5511 Kempton Dr, Springfield, Va. 22151.

BERNARD, DR. WALTER, b. Sereth, Austria, July 23, 02; nat; m. 46; c. 2. PSYCHOLOGY. B.A, City Col. New York, 25, M.A, 46; M.A, Columbia, 27; Ph.D.(philos), N.Y. Univ, 33. Asst. psychologist, vet. rehab. clin, Brooklyn Jewish Hosp, 44-47; instr. PSYCHOL, LONG ISLAND, 47-48, ASST. PROF, 48- Fel. AAAS; Psychol. Asn; Philos. Asn. Theoretical psychology; psychology of language learning. Publ: The philosophy of Spinoza and Brunner; ed. & translator, The unity of body and mind; C. Brunner's science, spirit, superstition: a new inquiry into human thought, Allen & Unwin, 68. Address: 2212 Merokee Place, Bellmore, N.Y. 11710.

BERNARD, DR. WILLIAM S(PENCER), b. New Haven, Conn, Dec. 11, 07. SOCIOLOGY. A.B, Yale, 29, Ph.D, 34; Columbia, 29-30. Asst. sociol, Yale, 30-31, instr. sci. of soc, 31-32, asst, inst. human rels, 32-34; prof. sociol, Colorado, 34-45; dir, Nat. Cmt. Immigration Policy, 45-50; nat. dir. resettlement campaign for exiled prfnls, Int. Rescue Cmt, 51-54; exec. dir, Am. Fedn. Int. Insts, 54-59; co-dir, Am. Coun. Nationalities Serv, 59-65; ASSOC. DIR. CENTER MIGRATION STUDIES: BROOKLYN COL, 65- Exec. secy, Citizens Cmt. Displaced Persons, 46-51; v.chmn, Am. Immigration & Citizenship Conf, 56-; U.S. del, UNESCO Conf. Cultural Integration of Immigrants, Havana, 56. Award, Am. Coun. Nationalities Serv, 65. Pop. Asn. Am; Sociol. Asn; Asn. Study World Refugee Prob. Immigration; ethnic and minority relationships; cultural dynamics. Publ: American immigration policy, a reappraisal; ed, Guide to practice requirements for foreign trained professions in the United States, Am. Immigration & Citizenship Conf, 67; auth, The integration of immigrants in the United States, Int. Migration Rev, spring 67. Address: Center for Migration Studies, Brooklyn College of the City University of New York, Brooklyn, N.Y. 11210.

BERNARDIN, ALFRED CHARLES, Psychol, see 10th ed, Soc. & Behav. Vols.

BERNARDONI, DR. LOUIS C, b. Woodstock, Ill, Oct. 27, 25; m. 53; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, Illinois, 50; summer, Claremont Col, 52; M.A, Arizona State, 56, Ed.D.(guid), 62. Interviewer, Ariz. State Employ. Serv, 53-56; couns, high sch, Ariz, 57-58; guid. specialist, Ariz. State Dept. Ed, 58-62; ASSOC. PROF. ed. psychol, Mankato State Col, 62-65; GUID. & COUNSELING, NEW MEXICO, 65- Consult, Soc. Security Admin, 67- U.S.A, 50-52. Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv. Counseling and guidance, especially in the areas of bicultural students and the vocational choice process. Publ: Results of the TOGA with first grade Indian children, 6/61 & Apache parents and vocational choice, 1/63, J. Am. Indian Ed; A culture fair intelligence test for the Ugh, No and Oo-La-La cultures, Personnel & Guid. J, 2/64. Address: College of Education, University of New Mexico, Albuquerque, N.Mex. 87106.

BERNAT, DR. LEO ALLEN, b. St. Paul, Minn, Apr. 13, 23. INDUSTRIAL RELATIONS. B.Chem, Minnesota, Minneapolis, 44, Ford Found. summer grant, 67, Ph.D, 67. Asst. physiol, Minnesota, Minneapolis, 46, biostatist, 46-47; statistician, U.S. Dept. Agr, 47-48; statistician, Minn. Dept. Employ. Security, 49-56, res. analyst, 50-56; from assoc. to EXEC. DIR, MINN. RES. ASSOCS, 55- Res. asst. agron, Minnesota, 48-68, indust. rels, 57-58 & 60-61, instr. bus. admin, exten, 62-67; res. analyst, Minn. Dept. Employ. Security, 59-60; youth coordinator, City of St. Paul, 68. Mem, permanent cmt, Int. Cong. Actuaries, 59- AAAS; Acad. Polit. & Soc. Sci; Nat. Planning Asn; Risk & Ins. Asn; Statist. Asn; Biomet. Soc; Casualty Actuarial Soc; Indust. Rels. Res. Asn; Nat. Asn. Adv. Colored People. Social insurance; statistics; labor economics; actuarial science. Publ: Should I as a public employee coordinate my PERA program with social security: an analysis of relevant factors, Int. Union Operating Engrs. Local 967, 67; Riot, baby, riot!, Part I, fall 67, Part II, winter 68, Part III, spring 68, Minn. Teacher. Address: 503-15th Ave. S.E, Apt. 2, Minneapolis, Minn. 55414.

BERNAYS, DR. EDWARD L, b. Vienna, Austria, Nov. 22, 91; m. 22; c. 2. PUBLIC RELATIONS, COUNSELING. B.S, Cornell, 12; hon. L.H.D, Boston, 66. Mem. staff, newspapers, N.Y, 13-15; publicity mgr, Russian Ballet tour, Metrop. Opera Co, 15-16; musical stars, 17-18; mem. U.S. cmn. pub. info, Paris Peace Conf, 18-19; PUB. RELS. COUNSEL, 19- Lectr, N.Y. Univ, 23, adj. prof, 49-50; vis. prof, Hawaii, 50; assoc, seminar pub. commun, Columbia. With reemploy. ex-serv. men, U.S. Dept. War, 19; asst. cmnr, U.S. Dept. Commerc, Paris Expos, 25. Pres, Edward L. Bernays Found; mem. bd. visitors, sch. bus. admin, Boston; adv. bd, Fletcher Sch. Edward R. Murrow Center; trustee, Longy Sch. Music, Mass. Chmn, Nat. Cmt. for Adequate Overseas U.S. Info. Prog; dir, World Affairs Coun, Mass. Officer Pub. Instr. award, France; King Christian X medal, Denmark, 46; medal of honor, City of New York, 61. Sociol. Asn; Acad. Polit. Sci; Int. Soc. Gen. Semantics. Publ: Crystalizing public opinion, Boni, 23; Public relations, Univ. Oklahoma, 55; Biography of an idea (memoirs), Simon. Address: 7 Lowell St, Cambridge, Mass. 02138.

BERNBERG, DR. RAYMOND E(DWARD), b. Chicago, Ill, Feb. 11, 16; m. 42; c. 2. PSYCHOLOGY. A.B, California, Los Angeles, 48, M.A, 49, Ph.D. (psychol), 50. Asst. prof. psychol, Los Angeles State Col, 50-56, assoc. prof, 56-58; supvr. eng. psychol, N.Am. Aviation, Inc, 58-60; mgr. opers. anal. & display systs, data systs. div, Radio Corp. Am, 60-63; lab. mgr. displays, Bissett-Berman Corp, 63-64; MGR. INFO. & DATA SYSTS, GUID. & CONTROL SYSTS. DIV, LITTON SYSTS, INC, WOODLAND HILLS, 64- Adj. prof, grad. sch. bus. admin, Southern California, 64- Indust. consult, 50-58. U.S.A, 41-46, Maj. Psychol. Asn; Inst. Elec. & Electronics Eng. Cognitive aspects of group processes; psychological bases of human communication; projective systems of the assessment of attitudinal structures of personality. Publ: Sociopsychological factors in industrial morale, J. Soc. Psychol. Address: 591 Tigertail Rd, Los Angeles, Calif. 90049.

BERND, PROF. JOSEPH LAURENCE, b. Macon, Ga, Dec. 8, 23; m. 60. POLITICAL SCIENCE. A.B, Mercer, 45; M.A, Boston, 53; Soc. Sci. Res. Coun. fel, Duke, 56-57, Ph.D.(polit. sci), 57. Asst. to Governor M.E. Thompson, Ga, 49-50, 54; wage analyst, U.S. Wage Stabilization Bd, 51; instr.

POLIT. SCI, Boston, 52-53; asst. prof, High Point Col, 57-59; Southern Methodist, 59-62, assoc. prof, 62-65, fels, 62-63; PROF. & HEAD DEPT, VA. POLYTECH, 65- Dir, Nat. Sci. Found. Conf. Math. Appln. Polit. Sci, 64-68. Consult, univ. press, South Carolina & Duke, 66. Polit. Sci. Asn. Political theory. Publ: Co-auth, Mathematical applications in political science, I, Arnold Found, Southern Methodist, 65; II, Southern Methodist, 66, III, Univ. Virginia, 67. Address: Dept. of Political Science, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

BERND, DR. SIEGFRIED M(ILTON), b. Keene, N.H, Apr. 18, 26. CLINICAL PSYCHOLOGY. A.B, N.Y. Univ, 48, Ph.D, 61; A.M, Columbia, 50. Personnel asst, Vet. Admin. Hosp, Brooklyn, N.Y, 51-52, asst. personnel officer, East Orange, N.J, 52-54, placement officer, New York, 54-57, clin. psychol. intern, Vet. Admin, 57-60; v.pres. & consult. psychologist, James N. Farr Assocs, Inc, 60-62; PSYCHOANALYST & CONSULT. PSYCHOLOGIST, 62- Lectr, Baruch Sch, City Col. New York, 61-62; fel. psychoanal. psychother, Post-Grad. Center Ment. Health, 63-67, lectr, 68- U.S.N, 44-46. Psychol. Asn. Address: Apt. 21, 141 E. 88th St, New York, N.Y. 10028.

BERNDT, GERALD D, b. Mankato, Minn, May 7, 20; m. 43. MATHEMATICAL STATISTICS. B.A, Minnesota, 48; M.Sc, N.Y. Univ, 51; George Washington, 56-57. STATISTICIAN, U.S. Weather Bur, 51-53; U.S. Dept. Defense, 53-54; Presidential Adv. Cmt. Weather Control, 55-57; U.S. DEPT. DEFENSE, 57- Consult, Colorado State, 58- Fel. Royal Statist. Soc. Mathematical statistics. Publ: On the unimodality and positivity of the abbreviated Edgeworth-gram charter series, J. Am. Statist. Asn; Evaluation of commercial cloud seeding operations; Power functions of the gamma distribution, Ann. Math. Statist. Address: Dept. of Operations Analysis, Headquarters, Strategic Air Command, Offutt Air Force Base, Nebr. 68005.

BERNDT, DR. REXER, b. Bellefontaine, Ohio, Mar. 9, 20; m. 41; c. 3. ECONOMICS. B.S, Denver, 49, M.B.A, 50; Ph.D.(econ), Colorado, 56. Head dept. econ, Ottawa, 51-55; Kalamazoo Col, 56-57, dir. indust. rels. center, 56-57; prof. econ, col. bus. admin, NORTHERN ARIZONA, 57-64, acad. v.pres, 64-66, EXEC. V.PRES, 67- U.S.A.A.F, 42-45, Lt. Econ. Asn. Address: Northern Arizona University, Flagstaff, Ariz. 86001.

BERNEY, DR. ROBERT E(DWARD), b. Walla Walla, Wash, Sept. 13, 32; m. 55; c. 4. ECONOMICS. B.A, Washington State, 54; M.A, 60; M.S, Wisconsin, 62, Ph.D.(econ), 63. Res. officer, Royal Cmn. Taxation, Ottawa, Ont, 63-64; ASST. PROF. ECON, Arizona State, 64-66; WASHINGTON STATE, 66- Tax consult, Ariz. Mobile Home Asn, 65. U.S.A, 54-58, 1st Lt. Econ. Asn; Finance Asn; Nat. Tax Asn. Debt management and policy at the federal level; monetary effects of fiscal policy; state and local government tax elasticities. Publ: The auction of long-term government securities, J. Finance, 9/64; co-auth, Micro-analysis of mobile home characteristics, Land Econ, 11/66; auth, The effects of corporate loss carry-overs on stabilization, Nat. Tax. J, 6/67. Address: Dept. of Economics, Washington State University, Pullman, Wash. 99163.

BERNFIELD, FREDERICK M(ILTON), b. Apr. 30, 06; m. 53. ECONOMICS. A.B, Pennsylvania, 28; Yale, 28-29, 38-39; fel, California, 29-31, M.A, 31. Asst. dean, Jr. Col. Commerce, Conn, 32-36; asst. prof. bus. admin, The Citadel, 36-44; economist, Off. Price Admin, 44-46; U.S. Dept. Commerce, 46-47; Yale & Towne Mfg. Co, Conn, 47-49, consult, 49-50; economist, U.S. Dept. Agr, 49-50, br. chief & administr. controlled mat. plans, 50-51; br. economist, Off. Price Admin, 51-53; private consult, 53-59; economist, int. activities staff, BUS. & DEFENSE SERV. ADMIN, U.S. DEPT. COMMERCE, 59-62, DEP. FOR. EXCESS PROPERTY OFFICER, 62- Mem, For. Serv. Selection Bd, 62. Econ. Asn. Balance of payments; international trade; foreign market potentials; business cycles and forecasting; impact of imports on United State production, consumption and labor. Publ: Control of stock exchanges, The Citadel Bull; Keystone of profits in pricing; Need for wholesaler-retailer cooperation in pricing. Address: 4501 Arlington Blvd, Arlington, Va. 22203.

BERNHARD, PROF. JOHN T, b. New York, N.Y, June 24, 20; m. 41; c. 4. POLITICAL SCIENCE. B.S, Utah State, 41; M.A, California, Los Angeles, 49, Ph.D, 51. Jr. forester, U.S. Indian Serv, 41-42; instr, high sch, 46-47; asst. prof. hist. & polit. sci, Brigham Young, 50-51; staff asst, Howard R. Hughes, Inc, 51-54, 57-59; res. analyst, Olson Bros, 54-57; admin. asst. to pres, BRIGHAM YOUNG, 59-62, PROF. POLIT. SCI, 59-, DEAN COL. SOC. SCI, 65-, dean human & soc. sci, 62-65, chmn. dept. polit. sci, 65-66. Adv. to Rector, Minas Gerais, 66-67. U.S.C.G, 42-46, Lt.(jg). Polit. Sci. Asn. Address: 390 Maeser Bldg, Brigham Young University, Provo, Utah 84601.

BERNHARD, PROF. RICHARD CARLTON, b. North Tonawanda, N.Y, Oct. 15, 10; m. 55; c. 3. ECONOMICS, LAW. B.A, Reed Col, 32; M.Sc, London, 36; Ph.D, Northwestern, 39. Assoc. economist, U.S. Bur. Budget, 40-43; lectr, Nevada, 47-51; vis. prof, British Columbia, 55-56; assoc. prof. ECON, California, Riverside, 56-62; PROF, UTAH, 63- Guest prof, Freiburg, 59; guest prof, Marburg & Ford Found. fel, 62. Monetary theory; antitrust policies of the United States, Great Britain, Germany and European economic community. Publ: Economics, Heath, 54; Wettbewerb Monopole und öffentliches Interesse, Fischer Verlag, 63; Competition in law and in economics, Antitrust Bull, 12/67. Address: 2438 S. 25th East, Salt Lake City, Utah 84109.

BERNHARD, DR. RICHARD HAROLD, b. New York, N.Y, Dec. 11, 33. OPERATIONS RESEARCH, INDUSTRIAL ENGINEERING. B.M.E, Cornell, 56, Standard Oil Co.(Ohio) fel, & Ph.D.(opers. res), 61; Sloan fel. & M.S, Mass. Inst. Tech, 58; Harvard, 58. Coop. student eng, Gen. Elec. Co, 53-56; instr. OPERS. RES, CORNELL, 59-61, ASST. PROF, 61-, lectr, continuing ed. prog. for. construct. engrs, 67- Lectr, Int. Bus. Mach. Corp. eng. concepts course, N.Y, fall 65 & 66; summers, analyst, Arthur D. Little, Inc, Mass, 57-59; consult, Sun Oil Co, Pa, 61. Mem. steering cmt, U.S. Pub. Health Serv. grants for prog. in environ. quality mgt, Cornell, 65- Inst. Indust. Eng; Acct. Asn. Engineering economics; development of normative mathematical and economic models for capital investment planning; cost analysis and control; applications of mathematical models of operations research. Publ: Discount methods for expenditure evaluation-a clarification of their assumptions, 1-2/62, On the choice of a cutoff rate for the internal rate of return, 5-6/65 & The interdependence of productive investment and financing decisions, 10/67, J. Indust. Eng. Address: Dept. of Operations Research, Upson Hall, Cornell University, Ithaca, N.Y. 14850.

BERNHARDSON, DR. CLEMENS SYLVANUS, b. Edmonton, Alta, Feb. 20, 35; m. 62; c. 1. PSYCHOLOGY. B.A, Saskatchewan, 56; M.A, Alberta, 59; Ph.D. (psychol), Mich. State, 65. Psychologist, Prov. Guid. Clin, Edmonton, Alta, 61-62; teacher, voc. sch, Windsor, 62-63; lectr. PSYCHOL, SASKATCHEWAN, 64-65, ASST. PROF, 65- Am. Psychol. Asn; Am. Statist. Asn; Can. Psychol. Asn. Response bias in personality testing; empirical sampling distributions. Publ: Determination of the chance score on the three-decision multiple-choice test, 66 & Dogmatism, defense mechanisms, and social desirability responding, 66, Psychol. Reports; Intra-maze cues and alternation after forced trials, Psychonomic Sci, 67. Address: Dept. of Psychology, University of Saskatchewan, Saskatoon, Sask, Can.

BERNHARDT, DR. JOSHUA, b. Latvia, Sept. 21, 93; nat; m. 23; c. 5. ECONOMICS, STATISTICS. Sherman fel. & A.B, Rochester, 16; univ. fel, Hopkins, 17-18, Ph.D, 21. Chief statist. dept, U.S. Sugar Equalization Bd, 19-20; instr. polit. econ, Hopkins, 20-21; sr. staff mem, Inst. for Govt. Res, 21-22; chief sugar div, U.S. Tariff Cmn, 23-24; statistician, sugar cos, N.Y, 25-26; secy, Palestine Econ. Corp, 27-33; chief economist, sugar sect, U.S. Dept. Agr, 33-35, chief sugar sect, 36-48; consult, reorgn. fed. govt, Hoover Cmn, 48; indust. consult, 49-50; CONSULT. TO SECY. AGR, P.R, 51- Lectr, American Univ, 22-23. Am. Mkt. Asn. award, 63. Econ. Asn. Governmental controls of industry; labor problems; government organization and administration. Publ: Sugar industry and the Federal government; The Interstate Commerce Commission; The U.S. Tariff Commission. Address: 7404 Brookville Rd, Chevy Chase, Md. 20015.

BERNHARDT, PROF. KARL S(CHOFIELD), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

BERNHART, DR. ALFRED PETER, Civil Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BERNKLOW, RODGER D(OUGLAS), b. Putnam, Conn, Aug. 29, 24; m. 50; c. 1 GEOGRAPHY. B.A, Clark, 49; George Washington, 52-54. Supvry. geogr, off. geog, U.S. Dept. Interior, 50-56; res. specialist regional & phys. geog. Latin Am, Corps Engrs, U.S. Dept. Defense, 56-63; PROG. OFFICER ECON. DEVELOP. & AREA PLANNING, BUR. INDIAN AFFAIRS, U.S. DEPT. INTERIOR, 63- U.S.A, 43-46. Asn. Am. Geog; Regional Sci. Asn; Am. Geog. Soc. History; urban geography; regional analysis. Address: Bureau of Indian Affairs, U.S. Dept. Interior, Coulee Dam, Wash. 99116.

BERNREUTER, PROF. ROBERT G(IBBON), b. Tampico, Ill, Dec. 9, 01; m. 31; c. 1. PSYCHOLOGY. A.B, Col. of Pacific, 24; Ph.D.(psychol), Stanford, 31. Asst, psychol. clin, Hawaii, 26-28; instr. psychol, Washington (St. Louis), 29-30; asst. prof, PA. STATE, 31-35, assoc. prof, 35-36, 37-39, prof, 39-66, dir. psychol. clin, 31-56, div. coun, 56-58, spec. asst. to pres. student affairs, 57-65, dean admissions & registr, 58-65, v.pres. student affairs, 65-66, EMER. PROF. PSYCHOL. & EMER. V.PRES. STUDENT AFFAIRS, 66- Tech. dir, Klein Inst. Aptitude Testing, 46-55. Consult. to Surgeon Gen, U.S. Air Force, 48-51. AAAS; Psychol. Asn; Asn. Ment. Deficiency. U.S.A.A.F, 42-46, Lt. Col. Clinical psychology; estimation of the attributes of personality; measurement of ability. Address: 310 Willard Bldg, Pennsylvania State University, University Park, Pa. 16802.

BERNSTEIN, DR. ALVIN J, b. New Rochelle, N.Y, Oct. 6, 28; m. 52. PSYCHOLOGY. B.A, Queens Col.(N.Y), 50; Ed.M, Harvard, 51; Ph.D.(appl. psychol), Columbia, 53. Asst, Columbia, 51-53; res. psychologist, Am. Inst. Res, 53-54; res. assoc, HumRRO, George Washington, 54-55, res. scientist, 55-56; eng. psychologist, human factors unit, GEN. ELEC. CO, 56-61, mgr, 61-64, specialist personnel res, res. lab, 64-67, MGR. PRFNL. PERSONNEL, RES. & DEVELOP. CENTER, 67- Consult, HumRRO, 56-59. AAAS; Psychol. Asn; Human Factors. Soc. Recruiting, evaluation, compensation and development of scientists and engineers. Address: 935 Northumberland Dr, Niskayuna, N.Y. 12309.

BERNSTEIN, DR. ALVIN STANLEY, b. New York, N.Y, Nov. 2, 29. CLINICAL & EXPERIMENTAL PSYCHOLOGY. A.B, N.Y. Univ, 50; Columbia, 50-51; Massachusetts, 51; Ph.D, Buffalo, 58. Asst. psychol, Massachusetts, 51; clin. psychol. trainee, Vet. Admin. Hosp. & Clin, Buffalo, N.Y, 52-56, ward psychologist, Vet. Admin. Hosp, Montrose, 58-60, clin. res. psychologist, 60-66; ASST. PROF. PSYCHOL, DEPT. PSYCHIAT, STATE UNIV. N.Y. DOWNSTATE MED. CENTER, 66- Lectr, Queens Col.(N.Y), 60-65; counsr, City Col. New York, 62-63; res. assoc, med. col, Cornell, 65-, asst. prof, 66-; Nat. Inst. Ment. Health spec. res. fel, 66-68. Consult. therapist, Bronx Consultation Center, 61-62. AAAS; Psychol. Asn; Psychonomic Soc; Soc. Psychophysiol. Res; N.Y. Acad. Sci. Perceptual organization in schizophrenia; structure of intelligence in pathology. Publ: Galvanic skin response DR among chronic schizophrenics, Psychonomic Sci, 64; Reliability of electrodermal arousal over extended periods in normals and as a function of tranquilizing drugs and regression in chronic schizophrenics, J. Nerv. Ment. Disease, 65; Electrodermal base level, tonic arousal and adaptation in chronic schizophrenia, J. Abnorm. Psychol, 67. Address: 144-44 38th Ave, Flushing, N.Y. 11354.

BERNSTEIN, DR. ARNOLD, b. New York, N.Y, Dec. 19, 20. PSYCHOLOGY. B.S, City Col. New York, 42, fel, 46-47; A.M, Columbia, 46, Ph.D, 52. Asst. guid, Teachers Col, Columbia, 47-49; from instr. to ASSOC. PROF. PSYCHOL, QUEENS COL.(N.Y), 53- Lectr, City Col. New York, 47-52. Chief psychol. clin, Stuyvesant Polyclin. Hosp, 58-65; consult, Metrop. Hosp. Center, N.Y. Med. Col, 65- U.S.A, 42-45. Fel. AAAS; Psychol. Asn. Clinical psychology; psychoanalysis; personality. Publ: On nature of psychotherapy; Anatomy of psychotherapy; Some relations between techniques of feeding and training in infancy and later behavior in childhood, Genetics Psychol. Monogr. Address: 60 W. 13th St, New York, N.Y. 10011.

BERNSTEIN, DR. BLANCHE, b. New York, N.Y, Oct. 6, 12. ECONOMICS. B.A, Hunter Col, 33; M.A, Columbia, 36, Ph.D.(econ), 40. Sr. economist,

War Prod. Bd, 42-44; sr. res. assoc, Robert R. Nathan, 44-45; dir. budget & res, Joint Distribution Cmt, 45-49; N.Y. Asn. New Americans, 49-51; chief prog. planning staff, Off. for Europe, For. Opers. Admin, 51-53; dir. res, Community Coun, New York, 53-61; CHIEF SOC. AFFAIRS, OFF. INT. ECON. & SOC. AFFAIRS, U.S. STATE DEPT, 61- Consult, Soc. Security Admin, 60-61. Econ. Asn; Statist. Asn. Social welfare; international economics. Publ: Pattern of consumer debt; Deterrents to early pre-natal care and social services among women pregnant out of wedlock; The United Nations childrens fund, State Dept. Bull, 2/66. Address: 2500 Q St. N.W, Washington, D.C. 20007.

BERNSTEIN, DR. DAVID A(LAN), b. Memphis, Tenn, Mar. 19, 40; m. 64. EXPERIMENTAL PSYCHOLOGY. B.A, Memphis State, 62; Nat. Defense Ed. Act. fel, Virginia, 62 & summer, 65, M.A, 64, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, CORNELL COL, 66- U.S.A, 58-66. AAAS; Psychol. Asn. Human verbal learning and retention; language behavior. Publ: Co-auth, Effects of conceptual grouping of adjacent items on serial learning, Psychol. Reports, 65. Address: Dept. of Psychology, Cornell College, Mt. Vernon, Iowa 52314.

BERNSTEIN, DR. EDWARD MORRIS, Econ, see 10th ed, Soc. & Behav. Vols.

BERNSTEIN, DR. HERBERT MARTIN, b. Rochester, N.Y, Apr. 16, 31; m. 58; c. 3. ECONOMICS. B.B.A, Western Reserve, 57, M.B.A, 58, Ph.D.(econ), 65. Instr. econ, Wilkes Col, 59-61; Case, 62-64; monetary economist, Fed. Reserve Bank, Cleveland, Ohio, 64-65; ASSOC. PROF. ECON, WASHINGTON & JEFFERSON COL, 65-, CHMN DEPT, 67- C.Eng, U.S.A, 53-55. Econ. Asn; Finance Asn. Japanese economy; monetary theory; monetary and fiscal policy. Address: Dept. of Economics, Washington & Jefferson College, Washington, Pa. 15301.

BERNSTEIN, DR. HOWARD B, b. New York, N.Y, Jan. 31, 26; m. 51; c. 2. PSYCHOLOGY. B.A, Lafayette Col, 49; M.A, Temple, 50, Ph.D.(exp. psychol), 54. Instr. psychol, Temple, 51-53; proj. dir. human eng, Vista Eng. Co, 54; V.PRES. ELECTRONICS, BEL FUSE, INC, 54- U.S.A, 44-46. AAAS; Psychol. Asn. Application of experimental psychology principles to the design of electronic data transmission systems. Address: Bel Fuse, Inc, 198 Van Vorst St, Jersey City, N.J. 07302.

BERNSTEIN, DR. IRA H(ARVEY), b. New York, N.Y, Aug. 10, 38; m. 61; c. 2. PSYCHOLOGY. B.A, Michigan, 59; M.A, Vanderbilt, 61, Ph.D.(psychol), 63. Res. assoc, Illinois, 63-64; consult, verbal behav. proj, Vanderbilt, 64, Nat. Inst. Ment. Health res. grant, 64-65; asst. prof. PSYCHOL, TEXAS, ARLINGTON, 64-67, ASSOC. PROF, 67- Nat. Inst. Ment. Health res. grant, 66-68. Psychonomic Soc; Psychol. Asn. Choice behavior in latency situations; perception; experimental study of personality processes. Publ: Effects of subliminal prompting on paired-associates learning, J. Exp. Res. Personality, 1: 33-38; Choice reaction time as a function of stimulus uncertainty, response uncertainty and behavioral hypotheses, J. Exp. Psychol, 67; Sequential information processing, Perception & Psychophys, 3: 177-184. Address: Dept. of Psychology, University of Texas at Arlington, Arlington, Tex. 76010.

BERNSTEIN, PROF. IRVING, b. Rochester, N.Y, Nov. 15, 16; m. 41; c. 4. INDUSTRIAL RELATIONS. B.A, Rochester, 37; M.A, Harvard, 38, Ph.D. (hist), 48; fel, Brookings Inst, 40-41. Indust. economist, bur. labor statist, U.S. Dept. Labor, 41-42; mediation officer, Nat. War Labor Bd, 42-43; chief mat. sect, U.S. Conciliation Serv, 46-47; PROF. POLIT. SCI. & MEM. RES. STAFF, INST. INDUST. RELS, CALIFORNIA, LOS ANGELES, 48-Chmn, Regional Wage Stabilization Bd, Calif, 52. U.S.A, 43-45. Indust. Rels. Res. Asn; Econ. Asn; Hist. Asn; Acad. Arbit. American labor history; settlement of labor disputes; collective bargaining. Publ: New deal collective bargaining policy; Arbitration of wages; Lean years. Address: Dept. of Political Science, University of California, Los Angeles, Calif. 90024.

BERNSTEIN, DR. IRWIN SAMUEL, Animal Behavior, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

BERNSTEIN, LEONARD A(LAN), b. Brooklyn, N.Y, Sept. 8, 25; m. 49; c. 2. ECONOMICS, MATHEMATICS. B.S, Columbia, 51, M.A, 54; M.S, N.Y. Univ, 61. Commodity price economist, MERRILL LYNCH, PIERCE, FENNER & SMITH, INC, 51-67, SUPVR. SCI. SYSTS. UNIT, 67- Lectr, mgt. inst, N.Y. Univ, 61-67. U.S.A, 43-45. Statist. Asn; Econ. Asn. Statistical and econometric studies; mathematical models and probability analysis; scientific computer programming. Publ: Statistics for decisions, Grosset, 5/65. Address: 380 N. Niagara Ave, Lindenhurst, N.Y. 11757.

BERNSTEIN, DR. LEWIS, b. Stanhope, N.J, Jan. 28, 15; m. 40; c. 2. PSYCHOLOGY. B.S, Wayne, 39, M.A, 41; Ph.D.(psychol), Colorado, 51. Clin. psychologist, Vet. Admin. Hosps, Albuquerque, N.Mex, 46-48, asst. chief clin. psychologist, Denver, Colo, 51-57, chief clin. psychologist, 57-59; dir. psychol. serv. & psychol. res, Jewish Nat. Home Asthmatic Children & Children's Asthma Res. Inst. & Hosp, 58-62; PROF. PSYCHOL. & HEAD DEPT, SCH. MED, MARQUETTE, 62- Asst. clin. prof, sch. med. & lectr, grad. sch, Colorado, 57-62; lectr, Wisconsin, Milwaukee, 65- Vis. scientist, Jackson Mem. Lab, 58; chief psychol. serv, Vet. Admin. Center, Milwaukee, 62-, mem. eval. cmt, res. psychiat, neurol. & psychol, 65-68; dir. psychol, Milwaukee Psychiat. Hosp, 62- Res. consult, Vet. Admin. Hosp, Denver, 59-62; consult, Lad Lake Residential Treatment Center, Wis, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. U.S.A, 42-46, 1st Lt. AAAS; Psychol. Asn; Soc. Proj. Tech; Interam. Soc. Psychol. Effects of early experience on later behavior; interpersonal relationships; psychological tests; psychosomatic medicine. Publ: Co-auth, The contribution of the social sciences to psychotherapy, C.C. Thomas, 67. Address: 921 E. Calumet Rd, Milwaukee, Wis. 53217.

BERNSTEIN, DR. MARGERY R(OSENTHAL), b. New York, N.Y, Nov. 6, 16; m. 40; c. 2. PSYCHOLOGY. Ed.D.(guid), Columbia, 53. Psychologist, Mamaroneck High Sch, 55-66; DIR. PUPIL PERSONNEL SERV, MAMARONECK BD. ED, 66- Psychologist, counseling center gifted children, N.Y. Univ, 53-56. Practicing psychologist, 46- W.A.C, 43-45, Lt. Psychol. Asn; Personnel & Guid. Asn; Nat. Ed. Asn. Adolescence; guidance of gifted children; psychological testing. Publ: Remedial reading with cardiac children, Reading Teachers; Relationship between interest and reading comprehension, J. Ed. Res; Improved reading through interest, Sch. Rev. Address: 702 Munro Ave, Mamaroneck, N.Y. 10543.

BERNSTEIN, PROF. MARVER HILLEL, b. Mankato, Minn, Feb. 7, 19; m. 43. POLITICAL SCIENCE. A.B. & A.M, Wisconsin, 40; Minnesota, 40-41; Ph.D, Princeton, 48. Budget exam, U.S. Bur. Budget, 42-46; instr. POLIT, PRINCETON, 47-48, asst. prof, 48-54, assoc. prof, 54-58, PROF, 58-, DEAN WOODROW WILSON SCH. PUB. & INT. AFFAIRS, 64-, Ford. res. prof. govt. affairs, 60-61, chmn. dept. polit, 61-64, assoc. dir, Woodrow Wilson Sch. Pub. & Int. Affairs, 62-64. Consult, Econ. Stabilization Agency, 51-52; State Comptroller Israel, 53-57; U.S. Civil Serv. Cmn, 61-; Mem, Conn. Cmn. State Govt. Orgn, 48-49; U.S. Admin. Conf, 61-; Conf. Pub. Serv, 62- Polit. Sci. Asn; Soc. Pub. Admin. American politics; public administration; problems of public service; role of government in economic life; regulation of business enterprise; government and politics of Israel; Middle Eastern affairs. Publ: Regulating business by independent commission, 55 & The politics of Israel, 57, Princeton; The job of the federal executive, Brookings, 58. Address: Woodrow Wilson School of Public & International Affairs, Princeton University, Princeton, N.J. 08540.

BERNSTEIN, DR. MILDRED RUTH, b. New York, N.Y, June 4, 16; m. 50. PSYCHOLOGY. B.A, Smith Col, 36; M.A, Bryn Mawr Col, 37; Ph.D, N.Y. Univ, 59. Intern psychol, Worcester State Hosp. & Worcester Child Guid. Clin, 39-40; psychometrist, Northampton State Hosp, 40; psychologist, Children's Study Home, 40-43; Inst. Juvenile Res, 43-46; Westchester Div, N.Y. Hosp, 46-47; med. center, Pediat. Psychiat. Clin, 47-48; sch. psychologist, bur. child guid, Bd. Ed, NEW YORK, 48-58, supvr. sch. psychologist, 58-59, acting chief sch. psychologist, BUR. CHILD GUID, 59-65, ADMINSTR, 65-Mem. staff, Springfield Child Guid. Clin, 40-43. Psychol. Asn; Orthopsychiat. Asn; Soc. Proj. Tech. & Personality Assessment. Effect of special classes for emotionally disturbed children. Publ: Mental hygiene aspects of supervision; Withdrawal, a child's reaction to stress, In: Child with cardiac limitations. Address: Bureau of Child Guidance, 101-23 124th St, Richmond Hill, N.Y. 11419.

BERNSTEIN, PETER L, b. New York, N.Y, Jan. 22, 19; m. 45. ECONOMICS. B.S, Harvard, 40. Economist, Fed. Reserve Bank of New York, 40-43; instr. econ, Williams Col, 46-47; economist, Amalgamated Bank of New York, 47-49; Modern Indust. Bank, 49-51; exec. v.pres, BERNSTEIN-MACAULAY, INC, 51-65, PRES, 66- Economist, Off. Strategic Serv, 42-43. U.S.A.A.F, Capt. Econ. Asn; Finance Asn. Finance; income and output. Publ: Price of prosperity; Primer on money, banking and gold; Is long-term inflation inevitable? Harvard Bus. Rev. Address: Bernstein-Macaulay, Inc, 55 Broad St, New York, N.Y. 10004.

BERNT, PROF. HANS H(EINRICH), b. Munich, Bavaria, Oct. 8, 98; nat. ECONOMICS. D.J.U, Munich & Erlangen, 24; London Polytech, 37; B.S, Columbia, 40, A.M, 43; summers, Colgate, 46, Cornell, 47, 48, 52, 54. Attorney at law & econ. consult, 25-37; assoc. prof. law & law librn, Newark, 41-43; assoc. prof. ECON, Elmira Col, 43-50, PROF, 50-65; HOBART & WILLIAM SMITH COLS, 65- Fulbright prof, Patna, 57-58. Econ. Asn. Currency questions; international and Soviet economics. Address: Dept. of Economics, Hobart & William Smith Colleges, Geneva, N.Y. 14456.

BEROLZHEIMER, DR. JOSEF, b. Munich, Germany, Oct. 5, 00; nat; m. 28. ECONOMICS, POLITICAL SCIENCE. Ph.D, Munich, 25; M.P.A, N.Y. Univ, 42. With br. chief govt. div, Prussian Cent. Statist. Off, 27-34; mem, Joint Distrib. Cmt. & its German counterpart, 37-41; res. assoc, New Sch. Soc. Res, 41-44; statistician, govt. div, U.S. Bur. Census, 44-47; ECONOMIST, AGENCY INT. DEVELOP, 48- German Army, 18. Econ. Asn; Soc. Pub. Admin. Government finance and fiscal policy; national accounts; money and banking. Publ: Whither tax classification?, Taxes; Problems of international comparisons of public finance, Handbuch der Finanz-Wissenschaft; Government finances in 18 Latin-American countries 1961-1965, Agency Int. Develop, 12/66. Address: 7408 Yorkshire Dr, Camp Springs, Md. 20031.

BERREMAN, PROF. GERALD D(UANE), b. Portland, Ore, Sept. 2, 30; m. 52; c. 3. ANTHROPOLOGY. B.A, Oregon, 52, M.A, 53; Ph.D.(anthrop), Cornell, 59. Asst. prof. ANTHROP, CALIFORNIA, BERKELEY, 59-62, assoc. prof, 62-66, PROF, 66- U.S.A.F, 53-55, 1st Lt. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc; Asn. Asian Studies. Culture change; intergroup relations; social stratification; community study; applied anthropology; Aleutian Islands, India, especially Himalayan area; research methods. Publ: Hindus of the Himalayas, Univ. California, 63; Caste in India and the United States, Am. J. Sociol; Behind many masks: ethnography and impression management, Monogr. Series, Soc. Appl. Anthrop, 62. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

BERREMAN, PROF. J(OEL) V(anMETER), b. Southwick, Idaho, July 9, 00; m. 27; c. 2. SOCIOLOGY. A.B, Willamette, 27; M.A, Oregon, 33; Ph.D, Stanford, 40. Instr. SOCIOL, Stanford, 34-35, 36-40, asst. prof, 40-42; instr, State Col. Wash, 35-36, assoc. prof, 46; OREGON, 46-50, PROF, 50-Fulbright prof, Philippines, 55-56 & Panjab, Pakistan, 63-64. Propaganda analyst & intel. officer, Off. War Info, 42-46. Sociol. Asn. Social psychology; race relations; alcoholic addiction. Publ: Empirical test of the theory of fugitive behavior; Assumptions about America in Japanese propaganda to United States; Chetco archaeology. Address: Dept. of Sociology, University of Oregon, Eugene, Ore. 97403.

BERRETTONI, PROF. J(ULIO) N(ARCISO), b. Vancouver, B.C, Dec. 18, 14; nat; m. 42; c. 2. STATISTICS. B.Com, British Columbia, 37; M.S, Iowa State Col, 38; summer, Chicago, 41; Ph.D.(statist), Minnesota, 43. Asst, British Columbia, 37; lab. instr, Iowa State Col, 38-39; asst. STATIST, Minnesota, 39-40, asst. prof, 40-47; PROF. & CHMN. DEPT, CASE WESTERN RESERVE, 50-; HEAD, BERRETTONI & ASSOCS, 39- Summer, asst. prof, Iowa State Col, 46. Consult. Statist. Asn; Econ. Asn; Soc. Qual Control; Mkt. Asn; Inst. Math. Statist. Applied statistics in reliability; industrial experimentation business and quality control. Publ: Practical applica-

tion of the Weibull distribution, Mathematical formulations of tolerancing by the statistical or differential method & Quality control in rubber manufacturing, Soc. Qual. Control. Address: 105 Hunting Terr, Chagrin Falls, Ohio 44022.

BERRIAN, DR. M(AE) ADELE, b. Oronogo, Mo, Aug. 24, 07. PSYCHOLOGY. A.B. & B.Mus, Bethany Col.(Kans), 32; M.A, Stanford, 47; M.A, George Washington, 56 & 59; Ph.D. (student personnel admin), Colorado, 62. Elem. & sec. sch. teacher, pub. schs, Mo, 28-31 & 33-35; res. asst, U.S. Treas. Dept, 36-42; qualifications analyst, U.S. Civil Serv. Cmn, 42-43; dean of women, Nebr. State Teachers Col, 53-56; asst. to dean of women, Colorado, 57-58; assoc. prof. PSYCHOL, West. State Col. Colo, 62-64; PROF, MOREHEAD STATE UNIV, 64- U.S.N, 43-45, Lt. Psychol. Asn; Personnel & Guid. Asn. Psychology of aging; continuing education of women. Address: Dept. of Psychology, Morehead State University, Morehead, Ky. 40351.

BERRICK, DR. MYRON E, b. New York, N.Y, Dec. 28, 21; m. 42; c. 2. PSYCHOLOGY. B.A, N.Y. Univ, 49, Ph.D, 55. Clin. psychologist, Vet. Admin, 54-62; psychotherapist, White Inst, 60-62; lectr, BROOKLYN COL, 62, ASST. PROF. PSYCHOL, 63- Coordinator counseling prog, dept. ed, teacher counseling & placement center, Brooklyn Col. U.S.A, 42-47, Lt. Psychol. Asn. Psychotherapy; counseling; teaching; child development. Publ: Influence of examiner suggestion on the perception of ambiguous stimuli; Manifest anxiety in psychiatric outpatients; Relationship between manifest anxiety and clinician's evaluations of projective test responses. Address: 1086 Ocean Ave, Brooklyn, N.Y. 11230.

BERRIDGE, DR. W(ILLIAM) A(RTHUR), b. Lynn, Mass, Apr. 13, 93; m. 18; c. 2. STATISTICS, ECONOMICS. A.B, Harvard, 14, A.M, 19, Ph.D, 22. Instr. math, Harvard, 15-17, econ, 20-22; asst. prof, Brown, 22-24, assoc. prof, 24-27, dir. res, bur. bus. res, 23-27; consult, Metrop. Life Ins. Co, 24-27, economist, 27-61; consult. economist, 61-62. Adv, President's Conf. Unemploy, 21-22; Fed. Census Unemploy, 30; coun, Harvard Found. Adv. Study & Res, 58-63. Mem. bd. dirs, Soc. Sci. Res. Coun, 33-38. Pres, Mkt. Res. Coun, 29; chmn, Conf. Bus. Economists, 56. Pollak prize, 22; Wells prize, 24; Thompson prize, 24. U.S.A, 17-19, Maj. Fel. Statist. Asn. (v.pres, 40); Econ. Asn; Finance Asn.(v.pres, 49); Royal Statist. Soc; Royal Econ. Soc. Employment; quantitative measurements in economics. Publ: Unemployment cycles in the U.S; Deconcentration in the life insurance business; Significance of the personal insurance business in the national economy. Address: R.D. 3, Great Barrington, Mass. 01230.

BERRIEN, PROF. F(REDERICK) K(ENNETH), b. Philadelphia, Pa, Dec. 22, 09; m. 33; c. 2. PSYCHOLOGY. A.B, Colgate, 31; A.M, Ohio State, 32, Ph.D.(psychol), 38. Res. fel. psychol, Pa. State Hosp, Allentown, 33; teacher, high sch, N.J, 33-35; asst. psychol, Ohio State, 35-36; instr, Pennsylvania, 37-38; Colgate, 38-41, asst. prof, 41-45, assoc. prof, 45-49, prof, 49-51; dir. res, Inst. Res. Human Rels, Pa, 51-55; prof. lectr. PSYCHOL, George Washington, 55-56; PROF, RUTGERS, 56-, chmn. psychol. grad. faculty, 60-63. Res. fel, Harvard, 45; Assoc, Nat. Training Lab; Psychologist, U.S. Govt, 55-56; lectr, Columbia, 53; vis. prof, Hawaii, 58 & 63-64, sr. specialist, East-West Center, 65-66 & 67-68; sr. assoc, Leadership Resources, Inc, 63- Consult, psychol. panel, cmt. undersea warfare, Nat. Res. Coun; Utica-Colgate Counseling Serv, 46-47. With Off. Sci. Res. & Develop; U.S. Navy. AAAS; fel. Psychol. Asn; Soc. Gen. Syst. Res. Human relations; social psychology; international research in social psychology. Publ: Practical psychology; co-auth, Applied psychology, Macmillan, 66; auth, General and social systems, Rutgers Univ, 68. Address: Dept. of Psychology, Rutgers University, New Brunswick, N.J. 08903.

BERRY, PROF. (JAMES) BREWTON, b. Orangeburg, S.C, Aug. 9, 01; m. 26; c. 2. SOCIOLOGY, ANTHROPOLOGY. A.B, Wofford Col, 22; B.D, Yale, 25; fel, Edinburgh, 25-27, Ph.D.(anthrop), 30. Asst. prof. sociol, Missouri, 31-37, assoc. prof. sociol. & dir. anthrop. collection, 37-45; prof. sociol. & head dept, R.I. State Col, 45-46; prof. SOCIOL. & ANTHROP, OHIO STATE, 46-64, EMER. PROF, 64- Vis. prof, Missouri, 50; Pa. State, 52. Consult, U.S. Off. Ed, 67- Fel. Sociol. Asn; fel. Anthrop. Asn. Racial and ethnic groups. Publ: Race relations; Almost white, Macmillan, 63. Address: Dept. of Sociology & Anthropology, Ohio State University, Columbus, Ohio 43210.

BERRY, PROF. BRIAN J(OE) L(OBLEY), b. Sedgley, Eng, Feb. 16, 34; m. 58. REGIONAL & URBAN GEOGRAPHY. B.Sc, London, 55; M.A, Washington (Seattle), 56, fel, 57-58, Ph.D.(geog), 58. Instr. geog. & res. instr. civil eng, Washington (Seattle), 58; asst. prof. GEOG, CHICAGO, 58-62, assoc. prof, 62-65, PROF, 65-, DIR. URBAN STUDIES TRAINING PROG, 66- Opers. Res. Soc; Asn. Am. Geog; Statist. Asn; Regional Sci. Asn.(v.pres, 67). Regional analysis; urban studies; location theory; systems analysis of the space-economy; quantitative methods. Publ: Auth, Market centers and retail distribution & co-auth, Spatial analysis & Goals for urban America, Prentice-Hall, 67. Address: Dept. of Geography, University of Chicago, Chicago, Ill. 60637.

BERRY, PROF. CALVIN R, b. Vilonia, Ark, June 5, 28; m. 50. AGRICULTURAL ECONOMICS, MARKETING. B.S.A, Arkansas, 52, M.S, 53; Ph.D, Purdue, 58. Instr, pub. sch, Ark, 49-51; AGR. ECON, Arkansas, 54-55; asst, Purdue, 55-57; asst. prof, ARKANSAS, 57-62, assoc. prof, 62-67, PROF, 67- Consult, Assoc. Dairymen, Inc, 64- U.S.A.F, 46-47, 53-54. Farm Econ. Asn. Fertilizer marketing and pricing; livestock and dairy marketing and production. Publ: Distributing dairy products through retail stores in Arkansas; co-auth, Institutional arrangements influencing the movement of milk in the South, South. Coop. Series Bull, 65; An evaluation of the level and alignment of federal order milk prices for the area of associated dairymen, Report of Dairy Mkt. Adv. Cmt, 65. Address: Dept. of Agricultural Economics, University of Arkansas, Fayetteville, Ark. 72701.

BERRY, DR. CHARLES H(ORACE), b. Ottawa, Ont, Jan. 6, 30. ECONOMICS. B.Sc, McGill, 51; M.S, Connecticut, 53; Ph.D, Chicago, 56. Instr. econ, Yale, 55-57, asst. prof, 57-63; sr. staff, Brookings Inst, 63-66; ASSOC. PROF. ECON. & PUB. AFFAIRS, PRINCETON, 66- Consult, U.S. Treas. Dept, 62-63; Internal Revenue Serv, 66-67. Econ. Asn; Economet. Soc; Farm Econ. Asn. Industrial organization. Publ: Voluntary medical insurance and prepayment, Queen's Printer, 65. Address: Dept. of Economics, Princeton University, Princeton, N.J. 08540.

BERRY, PROF. ERNEST ROYAL, b. Philadelphia, Pa, July 13, 30. PSYCHOLOGY, SOCIOLOGY. B.S, Cheyney State Col, 52; Howard, 57; dipl, Vienna, 58; dipl, Inst. Soc. Studies, Netherlands, 60; Munich, 64-68. Teacher, pub. sch, Pa, 53-57; teacher & counsr, high sch, Va, 57-58; Ford Found res. grant, Hague, Holland, 59-60; Scandinavian seminar fel, 60-62; asst. in Eng, Realgymnasium, Germany, 61-63; teacher, Am. Sch. & instr. Eng, U.S. Info. Serv, Tangier, Morocco, 64-65; German Student Exchange fel, 65-66; ASSOC. PROF. PSYCHOL, CHEYNEY STATE COL, 66- Fels, Nat. Conf. Christian & Jews, summer 54, Inst. Int. Ed, New York, summer 58, Danish Govt, 58-59 & Victoria Chiropody Col, 67. Education. Publ: Negro and the other, Berlinske Tidende, Denmark, 59; Growing up in the north, Neuwe Rottedamsche Courant, Holland, 60. Address: 5932 Cedar Ave, Philadelphia, Pa. 19143.

BERRY, DR. JANE B(ATCHELDER), b. Rochester, Minn, Aug. 13, 22; m. 46; c. 2. PERSONNEL PSYCHOLOGY. A.B, Minnesota, 44; M.A, George Washington, 46; Ed.D, Columbia, 54. Psychometrist, George Washington, 45-48, placement asst, 49-51; soc. dir. & counsr, sch. nursing, Lenox Hill Hosp, 51-53; dir. placement, Hunter Col, 54-55, lectr. PSYCHOL, 55-60; RES. ASSOC. & LECTR, MISSOURI, KANSAS CITY, 60-, DIR. CONTINUING ED. FOR WOMEN, 65- Consult, Lear Siegler, 67- Psychol. Asn; Personnel & Guid. Asn; Statist. Asn. Personnel measurement; problems pertaining to the employment of women. Publ: Co-auth, Counseling girls and women, awareness, analysis and action, Univ. Missouri, 66; Does he really want a part-time job? J. Col. Placement; Life plans of college women, J. Nat. Asn. Deans Women. Address: 5650 High Dr, Mission Hills, Kans. 66208.

BERRY, COMDR. NEWELL H, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BERRY, DR. PAUL C(ONRAD), b. Hemel Hempstead, Eng, Aug. 24, 33; m. 55; c. 3. APPLIED PSYCHOLOGY. B.A, Swarthmore Col, 55; M.A, Stanford, 57; Soc. Sci. Res. Coun. fel, Yale, 58-59, Ph.D.(psychol), 59. Res. psychologist, psychol. res. assocs. div, Matrix Corp, 59-61; field dir. Am. Friends Serv. Cmt, Haiti, 61-63; res. dir. sch. math. curriculum, Minnesota, 63-64; RES. STAFF soc. policy, Hudson Inst, 64-66; COMPUT. SCI, RES. CENTER. INT. BUS. MACH. CORP, YORKTOWN HEIGHTS, N.Y, 66-; VIS. PROF. PSYCHOL, PUERTO RICO, 68- Consult, U.S. Agency Int. Develop, 65-AAAS; Soc. Int. Develop; Soc. Appl. Anthrop; Inst. Elec. & Electronic Eng; Psychol. Asn; Fedn. Am. Sci. Psychology and simulation of thinking; community development; fundamental education; education in underdeveloped areas; computer programming languages; population policy; linguistics. Publ: Introductory exercises in Haitian Creole, Am. Friends Serv. Cmt, 62; Pretending to have (or to be) a computer as a strategy in teaching, Harvard Ed. Rev, 64; Education by television in American Samoa, Hudson Inst, 65. Address: Dept. of Psychology, University of Puerto Rico, Rio Piedras, P.R. 00931.

BERRY, PROF. PAUL M(cCOY), b. Eskridge, Kans. Dec. 26, 07; m. 35; c. 2. SOCIOLOGY. B.A, Pasadena Col, 31; M.A, Col. of Pacific, 32; Ph.D. Southern California, 60. Chmn. dept. sociol, Northwest Nazarene Col, 34-36; soc. caseworker, Los Angeles County Dept. Charities, 39-40; asst. prof. SOCIOL. Colo. Agr. & Mech. Col, 40-44; chmn. dept, South Dakota, 44-45; asst. prof, MACALESTER COL, 46-48, assoc. prof, 48-59, PROF, 60-, CHMN. DEPT. 48- Vis. prof, Va. Union, 67. Teaching fel. Dept. Sociol, Southern California, 36. Fel. Sociol. Asn. Community; social psychology; women's correctional institutions. Address: 1443 Osceola Ave, St. Paul, Minn. 55105.

BERRY, DR. RALPH EDWARD, JR, b. Boston, Mass, Aug. 16, 34; m. 59; c. 1. ECONOMICS. B.S, Boston, 60, M.A, 62; univ. fel, U.S. Pub. Health Serv. fel. & Ph.D.(econ), Harvard, 66. Instr. ECON. HARVARD, 65-67, ASST. PROF, 67- Consult, Bur. Budget, 66-; Dept. Health, Ed. & Welfare, 67-Spec. Forces, U.S.A. Econ. Asn. Economics of medical care and of human resources. Publ: The effect of certain economic and socio-demographic factors on public consumption, Boston Univ. Bus. Rev, fall 64; Returns to scale in the production of hospital services, Health Serv. Res, summer 67; The economic structure of American hospitals, In: Federal programs for the development of human resources, Joint Econ. Cmt, U.S. Cong, 68. Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

BERRY, DR. RICHARD N(ASH), b. Poolville, N.Y, Dec. 3, 18; m. 47. PSYCHOLOGY. B.A, Colgate, 40; M.Sc, Brown, 41, Ph.D.(psychol), 47. Asst. prof. PSYCHOL, INDIANA, 47-57, ASSOC. PROF, 57- With Off. Sci. Res. & Develop, 42-45. AAAS; fel. Psychol. Asn. Perception; comparison of threshold acuities for vernier, real depth and stereoscopic tasks under similar conditions. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

BERRY, DR. R(OBERT) ALBERT, b. St. Marys, Ont, Jan. 26, 37. ECONOMICS. B.A, Western Ontario, 59; Ph.D.(econ), Princeton, 63. Res. staff economist, YALE, 62-65, asst. prof. ECON, 65-67, ASSOC. PROF, 67- Econ. Asn. Economic development of Colombia; welfare implications of imperfect competition. Address: Dept. of Economics, Yale University, New Haven, Conn. 06520.

BERRY, PROF. ROBERT E(RWIN), b. Centralia, Ill, Dec. 16, 23; m. 54; c. 1. ECONOMICS. B.S, Illinois, 47; A.M, Indiana, 48; Ph.D.(econ), Wisconsin, 51. Assoc. prof. ECON, MIAMI (OHIO), 50-61, PROF, 61- Consult, Socony Mobil Oil Co, Inc, 59. U.S.A, 43-46. Econ. Asn; Indust. Rels. Res. Asn. Government and business relations; labor economics; economic education programs of industry. Address: Wespiser Place, Oxford, Ohio 45056.

BERRY, DR. RUSSELL L(aVERNE), b. Hatton, Sask, July 13, 14; U.S. citizen; m. 48; c. 3. AGRICULTURAL ECONOMICS. B.S, Illinois, 39; M.S, Mich. State, 48; Harvard, 53-54; Ph.D.(agr. econ), Ohio State, 66. Instr. farm mgt. Mich. State, 45-46, asst, 46-47; asst. prof. econ. & sociol, Kansas State, 48-49; ASSOC. PROF. ECON, S.DAK. STATE, 49- Agr. Econ. Asn; Agr. Hist. Soc; Soc. Farm Mgr. & Rural Appraisers; Econ. Hist. Asn. Farm manage-

ment, tenure and policy; rural development. Publ: Scully estate and its cash leasing system, Ohio State Univ, 66; Cost sharing as a means of improving share rent lease, J. Farm Econ, 8/62; Farm tenancy problems in South Dakota, S.Dak. Agr. Exp. Sta. Address: Dept. of Economics, South Dakota State University, Brookings, S.Dak. 57006.

BERRY, DR. THOMAS S(ENIOR), b. Holyoke, Mass, Nov. 21, 06; m. 30, 51; c. 6. ECONOMICS. S.B, Harvard, 27, A.M, 32, Ph.D.(econ), 38. Instr. econ, Duke, 35-43; chief food price analyst, Off. Price Admin, Ga, 43-45; rental & occup. adv, Pub. Housing Admin, 45-47; prof. econ, Millsaps Col, 47-49; field off. economist, Pub. Housing Admin, Richmond, Va, 49-53; ASSOC. PROF. ECON. & PLACEMENT DIR, SCH. BUS. ADMIN, RICHMOND, 53- Econ. Asn; Econ. Hist. Asn; Hist. Asn. Prices and price history; housing; monopoly and competition; San Francisco money, prices and trade, 1847-1900. Publ: Western prices before 1861; The search for talent, Auditgram, 63; Ordeal by fire, Bankers Mag, summer 67. Address: Dept. of Economics, School of Business Administration, University of Richmond, Richmond, Va. 23173.

BERRYMAN, PROF. HARRY E, b. Elvins, Mo, Sept. 11, 29; m. 56; c. 5. PSYCHOLOGY. B.S, Southeast Mo. State Col, 55; M.A, George Peabody Col, 58, Ph.D.(psychol), 68. Teacher, high sch, Mo, 55-57; clin. psychologist, Tenn. Dept. Ment. Health, 60-63; PROF. PSYCHOL, LAMBUTH COL, 63- Consult, Tenn. Dept. Ment. Health, 63-; Jackson Ment. Health Center, 68- U.S.A.F, 49-54. AAAS; Psychol. Asn. Psycholinguistics; verbal behavior of schizophrenics; child psychology. Publ: The perception of language redundancy, J. Abnorm. Psychol, (in press). Address: Dept. of Psychology, Lambuth College, Jackson, Tenn. 38302.

BERRYMAN, PROF. ROBERT, Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

BERS, DR. MELVIN KLINE, b. Washington, D.C, July 3, 22; m. 48; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. A.B, George Washington, 43, M.A, 48; Ph.D, California, 56. Asst. prof. econ, Carnegie Inst. Tech, 54-60; economist, Pittsburgh Regional Econ. Study, Pa, 60-61; res. economist, inst. indust. rels. & lectr. econ, California, Berkeley, 61-63; vis. assoc. prof. ECON, Denver, 63-65; ASSOC. PROF, GRAD. SCH. PUB. AFFAIRS, STATE UNIV. N.Y. ALBANY, 65- U.S.A, 44-46. Employment relations in government; wage levels and structures; labor organizations. Publ: Union policy and the older worker; Insight and illusion in Perlman's theory of the labor movement, Indust. & Labor Rels. Rev. Address: Graduate School of Public Affairs, Sayles Hall, State University of New York at Albany, Albany, N.Y. 12203.

BERSCHEID, DR. ELLEN, b. Colfax, Wis, Oct. 11, 36; m. 59. SOCIAL PSYCHOLOGY. B.A, Nevada, 59, Nat. Inst. Ment. Health fels, 60-65, M.A, 60; Ph.D.(psychol), Minnesota, 65. Mkt. res. analyst, Pillsbury Co, 60-62; asst. prof. mkt. & psychol, sch. bus. admin, MINNESOTA, MINNEAPOLIS, 65-66, asst. prof. PSYCHOL, LAB. RES. SOC. RELS, 67-68, ASSOC. PROF, 68- Assoc. investr, Nat. Sci. Found. res. grant, 66-68, prin. investr, 67-69. Psychol. Asn. Attitude change; interpersonal attraction; social justice. Publ: Opinion change and communicator—communicatee similarity and dissimilarity, 66 & co-auth, When does a harm-doer compensate his victim? 67, J. Personality & Soc. Psychol; Increased liking as a result of the anticipation of personal contact, Human Rels, 67. Address: Lab. for Research in Social Relations, 486 Ford Hall, University of Minnesota, Minneapolis, Minn. 55455.

BERSH, PROF. PHILIP J(OSEPH), b. Philadelphia, Pa, Sept. 9, 21; m. 52; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Temple, 44; A.M, Columbia, 47, Ph.D.(exp. psychol), 49. Lectr. statist. & psychol, sch. gen. studies, Columbia, 47-54, res. assoc, 51-54; chief intel. & electronic warfare br, human eng. lab, Rome Air Develop. Center, Griffiss Air Force Base, N.Y, 54-62; chief combat systs. res. lab, personnel res. off, U.S. Dept. Army, 62-66, dep. dir. human performance exp, behav. sci. res. lab, 66-67; PROF. PSYCHOL, TEMPLE, 67- Nat. Res. Coun. fel, 50. Mem. vision cmt, Armed Forces-Nat. Res. Coun, 63- U.S.A, 43-46. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc. Behavior theory; conditioning and learning; vision; interactions between Pavlovian and instrumental conditioning. Publ: The influence of two variables upon the establishment of a secondary reinforcer for operant responses, J. Exp. Psychol; co-auth, The effect upon heart rate conditioning of randomly varying the interval between conditioned and unconditioned stimuli, Proc. Nat. Acad. Sci. & Extinction of a human cardiac-response during avoidance-conditioning, Am. J. Psychol, 56. Address: Dept. of Psychology, Temple University, Philadelphia, Pa. 19122.

BERSHTEIN, PROF. EDWARD M(AURICE), b. Philadelphia, Pa, Feb. 25, 15; c. 3. POLITICAL SCIENCE. J.D, Chicago, 49, M.A, 53, Ph.D.(polit. sci), 55. Vis. lectr. soc. sci, Puerto Rico, 50-52; ed. polit. sci. & law, Am. Peoples Encyclop, 55-56; asst. prof. polit. sci, Purdue, 56-62; tech. secy. polit. & civil rights, President's Cmn. on Status of Women, Wash, D.C, 62-63; lawyer, legis. div, solicitor's off, Dept. Labor, 63; ASSOC. PROF. POLIT. SCI. & CHMN. DEPT, HARTFORD, 63- Consult. & translator, Friedman, Zoline & Rosenfield, 54- Summers, XL res. grant Purdue, 58 & 60, Lincoln Inst. res. grant, Chile, 67. U.S.A, 41-45. Polit. Sci. Asn. American politics; public law; political philosophy; Latin American politics, especially land reform. Publ: Co-auth, Legislative history of the fair labor standards amendments of 1961, U.S. Govt. Printing Off, 63; Question of jurisdiction in the enforcement of the 500 acre law, Rev. Juridica de la Univ. P.R. Address: Dept. of Political Science, University of Hartford, West Hartford, Conn. 06117.

BERSON, DR. ELAINE S(YLVIA), b. Newark, N.J, June 7, 22. SOCIOLOGY. A.B, Illinois, 50; M.S.W, Oklahoma, 53; fel, Duke, 56-57, Ph.D, 58. Asst, Duke, 54-56; consult, Muscular Dystrophy Asn. Am, Inc, 57-60; instr. sociol, eve. sch, Newark Div, Rutgers, 61; dir. ment. health, Essex County Ment. Health Asn, N.J, 61-66; ASST. PROF. SOCIOL, MONMOUTH COL.(N.J), 66- Instr, eve. div, Temple, 59-61. Consult, City Newark Neighborhood Youth Corps, 67- Fel. Sociol. Asn; Asn. Social Workers; Acad. Cert. Soc. Workers. Social welfare; sociological factors of mental disorders among the aged; public facilities for treating severely emotionally disturbed children. Address: 49 Laurel Place, Eatontown, N.J. 07724.

BERTELSMANN, PROF. HEINZ (OTTO) (BERNHARD), b. Bielefeld, Germany, Sept. 24, 08. INTERNATIONAL RELATIONS. A.B, California, 36, A.M, 37; Inst. Univ. de Hautes Etudes Int, 37-40; Ph.D, Columbia, 56. Lectr, Columbia, 40-41, instr, 41-43, 46-47; INT. RELS, BARD COL, 47-48, asst. prof, 48-54, assoc. prof, 54-61, PROF, 61- U.S.A, 43-46, Lt. Polit. Sci. Asn; Acad. Polit. Sci. Political problems of Europe between the First and Second World Wars; German government and politics. Address: Dept. of International Relations, Bard College, Annandale-on-Hudson, N.Y. 12504.

BERTERMAN, JOHN EMORY, b. Baltimore, Md, Dec. 6, 26; m. 49; c. 1. STATISTICS, MATHEMATICS. B.S, Franklin & Marshall Col, 49; A.M, Cornell, 52; George Washington, 59-62. Analyst, Nat. Security Agency, 52-59; br. chief, Anal. Serv, Inc, 59-61; proj. scientist, Booz-Allen Appl. Res, Inc, 61-62, prin. scientist, 62-63; SR. ASSOC, PLANNING RESEARCH CORP, 64- U.S.N, 45-46. Math. Soc; Soc. Indust. & Appl. Math; Statist. Asn; Opers. Res. Soc. Operations research; weapons; communications; transportation; computers, computation and simulation. Address: 1131 Alexandria Ave, Alexandria, Va. 22308.

BERTHOLD, PROF. JEANNE SAYLOR, b. Kansas City, Mo, June 4, 24; div. COUNSELING & EDUCATIONAL PSYCHOLOGY. B.S, California, Berkeley, 53, Nat. Insts. Health fel. & M.S, 55, Nat. League Nursing fel. & Ph.D.(counseling), 61. Instr. ED. & COUN. PSYCHOL, sch. nursing, California, San Francisco, 55-61; asst. prof, F.P. BOLTON SCH. NURSING, CASE WESTERN RESERVE, 61-63, assoc. prof, 63-65, PROF, 65-, chmn. res. group, 64-67. Prin. investr, U.S. Pub. Health Serv. res. grants, 63-73, 64-69 & proj. dir, 66-71. Mem. bd. dirs, Am. Nurses' Found, 65-; consult, Vet. Admin, 66- Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Concept attainment; problem solving; teaching-learning process; new and specification for increased efficiency and effectiveness within a professional field. Publ: Theoretical and empirical clarification of concepts, Nursing Sci, 64; Research laboratory facilities for nursing—planning for progress, 64 & prologue to theory development in nursing: a symposium, summer 68, Nursing Res. Address: F.P. Bolton School of Nursing, Case Western Reserve University, 2025 Adelbert Rd, Cleveland, Ohio 44106.

BERTIN, DR. MORTON A, b. Plainfield, N.J, June 28, 13; m. 40; c. 2. PSYCHOLOGY. B.A, Florida, 55, M.A, 56, U.S. Pub. Health Serv. fel, 55-58, Ph.D.(psychol), 58. Dir. grants, Florida, 58-60; res. psychologist, U.S. Naval Training Device Center, 60-64, head life & behav. sci. dept, 64-67, head training effectiveness dept, 67; HUMAN FACTORS & RES. CONSULT. TO DEP. CHIEF NAVAL MAT. LOGISTIC SUPPORT, 67- Chief psychologist, State Sch. Deaf & Blind, Fla, 58-60; prin. investr, Nat. Insts. Health, 59. Consult, 58. Mem. Fla. liaison cmt, White House Conf, 60; chmn, Functional Warfare Training Cmt, 65- Psychol. Asn; Psychomet. Soc; Research Soc.(secy-treas, 66-67). Sensory deprivation and cue utilization; human factors in man-machine systems; sonar and information systems; test construction. Publ: Reappraisal of marketing practices; Attidudes towards blindness; Effects of various conditions of training upon a visual discrimination task. Address: Code MAT 04T, Main Navy, Washington, D.C. 20360.

BERTRAM, PROF. GORDON W(ILLIAM), Econ, see 10th ed, Soc. & Behav. Vols.

BERTRAM, RUDOLF F(REDERICH), b. Germany, Apr. 12, 04; nat; m. 30; c. 1. ECONOMICS. A.B, Chicago, 35, M.A, 36. Classification, personnel & placement officer, Tenn. Valley Authority, 36-43, head personnel rel. officer, 43-48; exec. officer, labor div, Off. U.S. Mil. Govt, Germany, 48-49; chief labor div, off. labor affairs, U.S. High Cmn, 49-51, dep. dir, 50-51, act. dir, 51-52; asst. chief labor rels. br, TENN. VALLEY AUTHORITY, 52-58, chief, 58-68, LABOR RELS. ADVISER, 68- Lectr, Tennessee, 57-68. Econ. Asn; Soc. Personnel Admin; Indust. Rels. Res. Asn; Acad. Polit. & Soc. Sci. Personnel administration; industrial relations; public administration. Address: 520 Locust Hill Dr, Knoxville, Tenn. 37920.

BERTRAND, PROF. ALVIN L(EE), b. Elton, La, July 6, 18; m. 41; c. 2. SOCIOLOGY. B.S, La. State, 40, Ph.D.(sociol), 48; M.S, Kentucky, 41. Asst. prof. sociol, LA. STATE, 48-51, from assoc. prof. to PROF. SOCIOL. & RURAL SOCIOL, 51- Head level of living sect, farm pop. & rural life br, agr. econ. div, agr. mkt. serv, U.S. Dept. Agr, 57-58; consult, farm pop. & rural life br, econ. res. serv, 58-; consult, two model & exemplary sch. projs & mem. tech. adv. cmt. & two proj. adv. groups, Southwest Ed. Develop. Lab, 66. Mem, European Cong. Rural Sociol; chmn. U.S. del, int. planning cmt, World Cong. Rural Sociol, 68. U.S.A.A.F, 42-46, Lt. Fel. Sociol. Asn; Rural Sociol. Soc.(pres, 67-68); Pop. Asn. Rural attitudes, health, television and radio habits; industrialization, education, population and social implication of agricultural mechanization; age in a diffused rural society; forest fire control; social change. Publ: Co-auth, Rural land tenure in the United States, La. State Univ, 62; History of the Southern Sociological Society, Univ. Alabama, 62; auth, Basic sociology, Appleton, 67. Address: Dept. of Rural Sociology, Louisiana State University, Baton Rouge, La. 70803.

BERTRAND, PRES. JOHN R(ANEY), b. Gray Co, Tex, Aug. 3, 14; m. 42; c. 4. AGRICULTURAL ECONOMICS, RURAL SOCIOLOGY. B.S, Tex. Tech. Col, 40, M.S, 41; Gen. Ed. Bd. fel, Cornell, 48-49, Ph.D.(agr. econ, rural sociol), 50. Assoc. prof. sociol, Sam Houston State Col, 45-46, acting dean men, 46; asst. prof. rural sociol, Agr. & Mech. Col, Tex, 46-47, assoc. prof, 47-50, asst. dean agr, 47-50, dean basic div, 50-54; dean, Max C. Fleischmann Col. Agr, Nevada, 54-56, dir. agr. exp. sta. & agr. exten. serv, 54-56; PRES, BERRY COL, 56- Pres, Berry Acad, 56-; secy, Berry Schs. Bd. Trustees, 56- Consult, jr. cols, Tex, 47-54; Okla. Jr. Col. Conf, 54; Food & Agr. Orgn, 55. Trustee, Ga. Found. Independent Cols, 60- U.S.N.R, 42-45, Comdr. Col. Personnel Asn; Sociol. Soc; Ed. Res. Asn; Asn. Higher Ed. Administration; social psychology. Publ: Period of transition from school to college, a challenge and an opportunity, Jr. Col. J; Texas A. and M's school-to-college transition program based upon measurement; Relation between high school average grade and academic achievement. Address: Box 600, Mt. Berry, Ga. 30149.

BERTRAND, PROF. KENNETH J(OHN), b. Green Bay, Wis, Jan. 29, 10; m. 37. GEOGRAPHY. B.S, Wisconsin, 32, Ph.D.(geog), 40; Syracuse, 32-

33. Instr. geog, exten. div, Wisconsin, 35-37; Okla. State, 37-39, asst. prof, 39-42, assoc. prof, 42-43; regional geogr, U.S. Bd. Geog. Names, 43-44, chief, res. div, 44-46, asst. dir, 46; asst. prof. GEOG, CATHOLIC UNIV, 46-48, assoc. prof, 48-64, PROF, 64- Mem. adv. cmt. antarctic names, U.S. Bd. Geog. Names, 48-, chmn, 63- Asn. Am. Geog; fel. Geog. Soc; Arctic Inst. N.Am; Glaciol. Soc. Regional geography of the United States; geomorphology; history of polar exploration. Publ: Co-auth, Geographical names of Antarctica; auth, Geographical exploration by the United States, In: The Pacific basin, Am. Geog. Soc, 67. Address: Dept. of Geography, Catholic University of America, Washington, D.C. 20017.

BERWICK, DR. KEITH B, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BESAG, DR. FRANK P, b. Netherlands, July 16, 35; U.S. citizen; m. 59; c. 3. SOCIOLOGY OF EDUCATION, URBAN SOCIOLOGY. B.A, Southern California, 53, M.A, 63, Ph.D.(sociol. of ed), 65. Teacher, high sch, Calif, 61-63; ASST. PROF. SOCIOL. OF ED, STATE UNIV. N.Y. BUFFALO, 65- State Univ. N.Y. Buffalo res. grants, 66-69; proj. dir, Store Fronts Ed. Info. Centers, 67-69. Ed. Res. Asn; Sociol. Asn; Acad. Polit. & Soc. Sci. Urban education; deviant behavior. Publ: Alienation and education: an empirical approach, Hertillon, 66; Anatomy of a riot: Buffalo 67, State Univ. N.Y. Buffalo, 68; co-auth, Negro teacher's attitudes towards administration, Integrated Ed, 10-11/67. Address: School of Education, State University of New York at Buffalo, Buffalo, N.Y. 14214.

BESANCENEY, PAUL H, S.J, b. Toledo, Ohio, Feb. 10, 24. SOCIOLOGY, ANTHROPOLOGY. Litt.B, Xavier (Ohio), 47; Ph.L, Loyola (Ill), 50, S.T.L, 57; A.M, St. Louis, 54; Ph.D.(sociol, anthrop), Mich. State, 64. Teacher, parochial high sch, Ohio, 50-51; Loyola Acad, Ill, 52-53; ASST. PROF. SOCIOL, JOHN CARROLL, 63-, CHMN. DEPT, 65- Sociol. Asn; Nat. Coun. Family Rels; Soc. Appl. Anthrop. Protestant-Catholic intermarriage; housing conditions of welfare clients; Jesuit effectiveness surveys in colleges, high schools and parishes. Publ: Unbroken Protestant-Catholic marriages among whites in the Detroit area, Am. Cath. Sociol. Rev, spring 62; On reporting rates of intermarriage, Am. J. Sociol, 5/65; Interfaith marriages of Catholic in the Detroit area, Sociol. Anal, spring 65. Address: Dept. of Sociology, John Carroll University, University Heights, Cleveland, Ohio 44118.

BESCH, DR. NORMA F(REDENBURG), b. Bainbridge, N.Y, Aug. 26, 31; m. 57. EXPERIMENTAL PSYCHOLOGY. B.A, Syracuse, 53; M.A, Iowa, 56, Ph.D. (psychol), 56. Asst. psychol, Iowa, 53-56; task scientist, Personnel & Training Res. Center, U.S. Air Force, 56-57; instr. PSYCHIAT, OHIO STATE, 57-59, ASST. PROF, 59- AAAS; Psychol. Asn; Psychonomic Soc. Human and animal motivational processes; proactive transfer in human learning; learning processes; endocrine and behavioral interrelationships; behavior in response to psychological and physiological stresses. Address: Behavioral Sciences Division, Dept. of Psychiatry, Ohio State University, Columbus, Ohio 43210.

BESCO, DR. ROBERT O(RIN), b. Albert Lea, Minn, May 11, 32; m. 53; c. 3. PSYCHOLOGY. B.A, Iowa, 54; univ. scholar, Purdue, 58, M.S, 59, Purdue Res. Found. fel, 58-60, Ph.D, 60. Sr. res. engr, N.Am. Aviation, Inc, 60, supvr. behav. sci, 60-61; mem. tech. staff, res. eng. develop. div, Hughes Aircraft Co, 61-62, group head display systs. dept, res. & develop. div, 62-66; PILOT, FLIGHT DEPT. & CONSULT, TRAINING DEPT, AM. AIRLINES, 66- Independent consult, 66- U.S.A.F, 54-58, Capt. Psychol. Asn; Psychomet. Soc; Human Factors Soc; Aerospace Med. Asn; Inst. Elec. & Electronics Eng. Human perceptual motor performance; crew station functional design; performance criteria research. Publ: Co-auth, Human engineering criteria for manned space flight: minimum manual systems, Aerospace Med. Res. Lab, U.S. Air Force, 8/62; Interdisciplinary requirements for experimental simulation programs on manned aerospace vehicles, Am. Inst. Aeronaut. & Astronaut, 63; auth, Handling qualities criteria for manned spacecraft attitude control systems, J. Spacecraft & Rockets, 7/65. Address: 26223 Barkstone Dr, Palos Verdes Peninsula, Calif. 90274.

BESHERS, DR. JAMES M(ONAHAN), b. Aruba, Netherlands W.I, Feb. 18, 31; m. 53; c. 3. SOCIOLOGY, STATISTICS. B.A, Swarthmore Col, 52; M.A, North Carolina, 55, Ph.D, 57. Asst. prof. sociol. & statist, Purdue, 56-60, assoc. prof, 60-61; vis. assoc. prof. soc. rel, Hopkins, 61-62; ASSOC. PROF. sociol. & statist, Purdue, 62-63; SOCIOL, MASS. INST. TECH, 63-Statistician, U.S. Bur. Census, 62-63. AAAS; Sociol. Asn; Statist. Asn; Pop. Asn. Mathematical models of social structure; sociological aspects of decision theory; statistical methods in survey and census tract research; migration; urban social structure; on-line computer techniques for social theory and social data. Publ: Urban social structure; Computer methods in the analysis of large scale social systems, Joint Center Urban Studies M.I.T. & Harvard, 65; Population processes in social systems, Macmillan, 67. Address: Dept. of City Planning, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

BESNARD, DR. GUY G(ERMAIN), b. Paris, France, Sept. 29, 20; nat; m. 44; c. 3. INDUSTRIAL PSYCHOLOGY. B.S, Purdue, 43, fel, 46-49, M.S, 47, Ph.D, 49. Res. psychologist, Air Force & Training Res. Center, 49-55; soc. scientist, Rand Corp, 55-57; br. head, SYST. DEVELOP. CORP, 58-61, DEPT. MGR, 62- U.S.A, 43-46, Res, 46-50; U.S.A.F.R, 50-57, Capt. Psychol. Asn; Human Facotrs Soc; Int. Asn. Appl. Psychol. Publ: Problems related to the performance of training methods research in an operation Air Force situation; co-auth, Visual skills and the differentiation of moving objects & Development of the subject-matter trainer. Address: 8109 Creighton Ave, Los Angeles, Calif. 90045.

BESS, DR. BARTLEY E(DWARD), JR, Psychol, see 10th ed, Soc. & Behav. Vols.

BESSAC, DR. FRANK B, b. Lodi, Calif, Jan. 13, 22; m. 51; c. 5. ANTHROPOLOGY. B.A, Col. of Pacific, 46; FuJen Univ, China, 47-48; Ford Found. grant, California, Berkeley, 55-56, M.A, 57; Ph.D.(anthrop), Wisconsin, 63. Exec. officer, China Relief Mission, U.S. State Dept, Paotou, 48; dir, Mongol Proj, Econ. Coop. Admin, China, 48-49; Fulbright scholar Mongolian lang. & soc, 49-50; vis. lectr, ANTHROP, Texas, 58-59; lectr, Lawrence, 59-60, instr. 60-62, asst. prof, 62-64; ASSOC. PROF, MONTANA, 65- Univ. Montana summer res. grants, 66, 67. Consult, Agr. Develop. Coun, Inc, 64-65. U.S.A, 43-46, Sgt. Fel. Anthrop. Asn; Ethnol. Soc; Asn. Asian Studies; Mongolia Soc. East Asian and central Asian ethnology; Chinese social change; theoretical problems connected with demacating units of study such as ethnic groups; relations of social organization and interethnic relations. Publ: Culture types of northern and western China, Univ. Microfilms, 63; Co-variation between interethnic relations and social organizations in inner Asia, Papers of Mich. Acad. Sci, Arts & Letters, 65; Cultunit and ethnic unit-processes and symbolism, Proc. Am. Ethnol. Soc, 68. Address: 410 Traynor Dr, Missoula, Mont. 59801.

BESSE, CLIFFORD S, S.J, b. Bellevue, Ky, Nov. 9, 15. ECONOMICS. Ph.D. (econ), St. Louis, 54. PROF. ECON. & BUS, XAVIER (CONN), 55-, DEAN FRESHMEN, 67-, asst. to acad. v.pres, 66-67. Econ. Asn. Publ: Economic theory and Christian thought, 60 & Economic theory and social order, 66, Xavier Univ. Address: Dept. of Economics & Business, Xavier University, Evanston Station, Cincinnati, Ohio 45207.

BESSELL, DR. HAROLD, Psychol, see 10th ed, Soc. & Behav. Vols.

BESSENT, DR. TRENT E(GGLESTON), b. Martinez, Calif, Mar. 6, 21; m. 49; c. 2. PSYCHOLOGY. B.A, Santa Barbara Col, 42; M.A, Southern California, 47, Ph.D.(psychol), 52. Sr. clin. psychologist, METROP. STATE HOSP, NORWALK, 49-55, CHIEF PSYCHOLOGIST, 55- Assoc, Edward Glaser & Assocs, 67- U.S.A.A.F, 42-45. Psychol. Asn. Group psychotherapy; psychodiagnostic techniques; schizophrenia. Publ: Relationship of the pretreatment strength of social responses of schizophrenic patients to improvement with electric shock therapy; A note on the validity of the Leiteer international performance scale, J. Consult. Psychol. Address: 11559 Loch Lomond Dr, Whittier, Calif. 90606.

BEST, DR. ALAN C. G, b. Kuala Lumpur, Malaya, Oct. 8, 39. GEOGRAPHY. B.A, Nebraska, 60; M.A, Mich. State, 62, Ph.D.(geog), 65. ASST. PROF. GEOG, Eastern Michigan, 64-67; BOSTON, 67- Asn. Am. Geog; Am. Geog. Soc. Political and population geography, especially Sub-Saharan Africa; viability of Swaziland, Botswana, Lesotho and other newly independent states. Publ: The Swaziland railway: a study in politico-economic geography, African Studies Center, Mich. State, 66; Development of commercial agriculture in Swaziland, 1946-63, Papers, Mich. Acad. Arts, Sci. & Letters, 66. Address: Dept. of Geography, Boston University, Boston, Mass. 02215.

BEST, PROF. GARY L(EE), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 64.

BEST, PROF. HARRY, b. Millersburg, Ky, Dec. 23, 80. SOCIOLOGY. A.B, Centre Col, 01, LL.D, 37; A.M, Gallaudet Col, 02, Litt.D, 44; George Washington, 02; A.M, Columbia, 08, Ph.D, 14; LL.B, New York Law Sch, 12; LL.D, Kentucky, 65. Instr, state schs. deaf, Nebr, Wash, Ala. & N.Y; resident worker, Univ. Settlement, N.Y, 12-19; PROF. SOCIOL, KENTUCKY, 19-, chmn. dept, 23-46. Award, Am. Found. Blind. AAAS; Sociol. Asn; Econ. Asn; Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Deafness and the deaf in the United States; crime and criminal law in the United States; blindness and the blind in the United States. Publ: The Soviet state and its inception; Public provision for mentally retarded, 66; Public provision for epileptics, 66. Address: Dept. of Sociology, University of Kentucky, Lexington, Ky. 40502.

BEST, DR. JAMES J, b. Chicago, Ill, Dec. 14, 38; m. 61; c. 2. POLITICAL SCIENCE. B.A, Chicago, 60; M.A, Tufts, 62; Ph.D.(polit. sci), North Carolina, 65. ASST. PROF. POLIT. SCI, Vermont, 64-66; WASHINGTON (SEATTLE), 66- Univ. Washington summer res. grant, 67. Polit. Sci. Asn; Asn. Pub. Opinion Res. Political socialization and recruitment; public opinion; empirical theory and methodology. Publ: Willingness to pay increased taxes for municipal services, Univ. Vermont Bur. Govt. Res, 68. Address: Dept. of Political Science, University of Washington, Seattle, Wash. 98105.

BEST, PROF. WALLACE H(ILL), b. Seattle, Wash, Dec. 10, 26; m. 49; c. 1. POLITICAL SCIENCE. A.B, Occidental Col, 50; A.M, Southern California, 51, Malcolm fel, 53, Ph.D.(polit. sci), 55. Asst. polit. sci, Southern California, 50-51, instr, 54-55, lectr. pub. admin, 51-54, res. assoc. bus. admin, 56-57, asst. prof. bus. & pub. admin, 57-58; asst. dir. superior civil serv. proj, Pakistan, 58-60; instr. govt. & bus. admin, Univ. Maryland overseas prog, Europe, 55-56; res. grant, Eagleton Inst. Practical Polit, 60-61; vis. assoc. prof. pub. admin, Nat. Inst. Pub. Admin, Pakistan, 61; lectr, grad. sch. pub. admin, Harvard, 61-66; PROF. ADMIN. & CHMN. DEPT. GEN. & PUB. ADMIN, FLORIDA ATLANTIC, 66- Consult, Mangore Corp, Calif, 57-59; Governor's Cmt. Med. Aid & Health, 60. U.S.N.R, 44-46. Polit. Sci. Asn; Soc. Pub. Admin; Pub. Health Asn; Soc. Int. Law; Am. Studies Asn. Direct forms of democratic practice, particularly initiative, referendum and recall; executive and supervisory processes, especially personnel appraisal; evaluation of administration; management information collection and retrieval; comparative public health administration. Publ: Some new directions in personnel appraisal, Personnel; Governmental medical aid and health service programs in California; co-auth, Supervisory methods in municipal administration. Address: Dept. of Administration, Florida Atlantic University, Boca Raton, Fla. 33432.

BETENSKY, DR. MALA GITLIN, b. Lodz, Poland, Oct. 15, 11; U.S. citizen; m. 45; c. 1. PSYCHOLOGY, SOCIOLOGY. B.A, New Sch. Soc. Res, 43, fel. & M.S.Sc, 45, fel. & Ph.D.(sociol, psychol), 58; fel, Wash. Inst. Ment. Hyg, 55-56. Child psychotherapist, Wash. Inst. Ment. Hyg, 55-56; teacher psychol. & sociol, Holton-Arms Jr. Col, 56-68; PRACTICING PSYCHOLOGIST, 58-; ASSOC. PROF. PSYCHOL, GEORGE WASHINGTON, 66- Lectr, Temple Emanuel, Md, 60-62 & Temple Sinai, D.C, 65-66; field assessment officer, Peace Corps, D.C, 65. Psychol. Asn; fel. Sociol. Asn. Psychology and sociology of adolescence; psychotherapy for children; adolescents and parents. Publ: Social psychology of adolescence, Yavneh Pub, Israel, 54; The role of the adolescent in Israeli collectives, In: Adolescence, Libra, 67. Address: 3901 Alton Place N.W, Washington, D.C, 20016.

BETH, PROF. LOREN P(ETER), b. Evanston, Ill, Dec. 19, 20; m. 46; c. 3. POLITICAL SCIENCE. A.B, Monmouth Col, 46; A.M, Chicago, 48, Ph.D. (polit. sci), 49. Instr. POLIT. SCI, Bradley, 49-52, asst. prof, 52-53; Harding Col, 53-54; interim asst. prof, Florida, 54-55, asst. prof, 55-56, assoc. prof, 56-58; PROF, MASSACHUSETTS, AMHERST, 58- Fulbright lectr, Leicester, 57-58 & sch. law, Trinity Col.(Dublin), 65-66. Managing ed, Polity, 67- U.S.A, 42-45. Polit. Sci. Asn; Acad. Polit. Sci. American constitutional and public law; civil liberties; church and state. Publ: The American theory of church and state, Univ. Florida, 58; Politics, the Supreme Court and the Constitution, Harper, 62; co-auth, The politics of mis-representation, La. State Univ, 62. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

BETKE, SISTER MARIA ANGELA, b. Detroit, Mich, Mar. 12, 97. PSYCHOLOGY. B.A, Canisius Col, 28, M.A, 29; Buffalo, 35-36; Ph.D.(psychol), Catholic Univ, 44. Instr, Parochial Sch. Syst, N.Y, 16-40; dir. remedial reading, St. Mary's Indust. Sch, 40-42; instr, St. Anselm's Priory Sch, D.C, 42-43; dir. psychol. clin, Felician Sisters, 43-48; prof. & instr, Canisius Col. & Mt. St. Joseph's Col, 44-47; prof. psychol. & clinician, Madonna Col, 47-48; DIR, Felician Psychol. Clin, 48-56; founder & dir, Cantalician Center for Children, N.Y, 56-66; CLIN. PSYCHOLOGIST, IMMACULATE HEART MARY CHILDREN'S HOME, 67- Lectr, Canisius Col, 48-56; prof, Immaculate Heart Training Sch. Teachers, 60- AAAS; Psychol. Asn; Polish-Am. Hist. Asn. Group and individual testing; remedial reading; mentally retarded children. Address: Immaculate Heart of Mary Children's Home, William & Kennedy St, Buffalo, N.Y. 14206.

BETTELHEIM, PROF. BRUNO, b. Vienna, Austria, Aug. 28, 03; nat; m. 40; c. 3. EDUCATIONAL PSYCHOLOGY. Ph.D, Vienna, 38. PROF. ED. PSYCHOL, CHICAGO, 50- Mem, Chicago Coun. Child Psychol. Fel. Psychol. Asn; fel. Orthopsychiat. Asn; Sociol. Asn; Nat. Acad. Ed. Child psychoanalysis and development. Publ: Symbolic wounds; Love is not enough; The informed heart. Address: Dept. of Psychology, University of Chicago, 1365 E. 60th St, Chicago, Ill. 60637.

BETTINGHAUS, DR. ERWIN PAUL, b. Oct. 28, 30; m. 52; c. 3. COMMUNICATIONS, PSYCHOLOGY. B.A, Illinois, 52, Ph.D.(rhet. psychol), 59; M.A, Bradley, 53. Instr. COMMUN, MICH. STATE, 58-60, asst. prof, 60-64, assoc. prof, 64-67, ASST. DEAN, 67- Consult, Am. Dent. Asn, 63-; Am. Indust. Arts Asn, 67- Med.Serv.C, U.S.A, 53-56, 1st Lt. AAAS; Psychol. Asn; Speech Asn. Language variables in persuasion; connotative meaning analyses; message transmission processes in family planning campaigns Publ: Message preparation: the nature of proof, Bobbs, 66; Persuasive communication, Holt, 68. Address: 421 Kedzie Bldg, Michigan State University, East Lansing, Mich. 48823.

BETTISON, PROF. DAVID G, b. Devonshire, Eng, Oct. 22, 25; m. 50; c. 4. SOCIAL ANTHROPOLOGY, SOCIOLOGY. B.A, Rhodes, S.Africa, 48, M.A, 50, Ph.D.(sociol), 56. Lectr. sociol, Rhodes, S.Africa, 50-56; res. officer sociography, Rhodes-Livingstone Inst, 56-57, sr. res. officer, 57-59; sr. lectr. sociol, Queensland, 59-60; sr. fel. exec. officer, New Guinea res. unit, Australian Nat. Univ, 60-65; assoc. prof. ANTHROP, SIMON FRASER UNIV, 65-66, PROF, 66-, HEAD DEPT. POLIT. SCI, SOCIOL. & ANTHROP, 68- Researcher, Urban African Affairs Cmn, S.Rhodesia, 55-56. S.African Artillery, 44-46. S.African Inst. Race Rels. Peri-urban settlement; urbanization; new forms of association in less developed countries; public policy; interdisciplinary research; sociological theory. Publ: Co-auth, The independence of Papua-New Guinea, Angus & Robertson, 62 & the Papua-New Guinea elections, 1964, Australian Nat. Univ, 66; auth, Factors in the determination of wage rates in central Africa, Rhodes-Livingstone J, 12/60. Address: Dept. of Political Science, Sociology & Anthropology, Simon Fraser University, Burnaby 2, B.C, Can.

BETTS, PROF. EMMETT ALBERT, b. Elkhart, Iowa, Feb. 1, 03; m. 24; c. 3. CLINICAL PSYCHOLOGY. B.S, Des Moines, 25; M.A, Iowa, 28, Ph.D. (psychol), 31. Voc. dir, schs, Iowa, 22-24, 25-29; asst. physics, Des Moines, 24-25; asst, Iowa, 29-31; psychologist, Ohio, 31-34; dir. teacher ed. & reading clin, N.Y. State Teachers Col, Oswego, 34-37; res. prof. & dir. reading clin, Pa. State, 37-45; prof. psychol. & dir. read-clin, Temple, 45-54; dir. Betts Reading Clin, 54-61; RES. PROF. PSYCHOL, MIAMI (FLA), 61- Ed, Education; J. Am. Ed. Res. AAAS; fel. Psychol. Asn. Dyslexias; visual problems; testing visual skills; visual science. Publ: Foundations of reading instruction; Prevention and correction of reading difficulties; Handbook on corrective reading. Address: School of Education, University of Miami, Coral Gables, Fla. 33124.

BETTS, DR. GILBERT L(EE), b. Independence, Kans, Nov. 30, 93; m. 29; c. 2. PSYCHOLOGY. B.S, McPherson Col, 21; California, 22-23; M.A, Stanford, 27, Ed.D, 33; Wisconsin, 33-34. Dir. res, pub. schs, Ariz, 27-29; sr. specialist, nat. teacher training surv, U.S. Off. Ed, 30-32; dir. instr, pub. schs, Wis, 34-37; supvr. grad. res. ed, Colo. Agr. & Mech. Col, 38-42; tech. ed, Ed. Test Bur, Minn, 46-54; C.A. Gregory Co. & Pub. Sch. Pub. Co, 54-60; CONSULT. PSYCHOMET, 60- Res. specialist, State Bd. Voc. Ed, Colo, 38-42. U.S.A, 18-19, 42-46. Fel. Psychol. Asn. Educational and psychological measurement; measurement of incipient criminality and trustworthiness; test construction. Publ: Co-auth, Measurement of teaching efficiency & Manual for research and reports; auth, The body of God, Christopher, 68. Address: 559 S. Reed Ave, Reedley, Calif. 93654.

BETTS, JAMES W(ILLIAM), b. Montclair, N.J, Oct. 11, 23; m. 51; c. 1. ECONOMICS. A.B, Rutgers, 46; New Sch. for Soc. Res, 49; M.A, Hawaii, 57. MEM. STAFF, DUN & BRADSTREET, INC, 46-, SR. REPORTER, HAWAIIAN ISLANDS, 59- Lectr, Hawaii, 52-54. U.S.A, 42-43. AAAS; Econ. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. United States foreign relations with Japan since 1945. Publ: Study of impact of postwar imports from Japan on selected American industries; Inter-business relations of major Hawaiian firms. Address: P.O. Box 4063, Honolulu, Hawaii 96812.

BETTS, DR. MERLE E(DWARD), b. Coon Rapids, Iowa, Apr. 12, 22; m. 46; c. 3. AGRICULTURAL ECONOMICS. B.S, Iowa State, 47, fel, 50-51, M.S, 52, Ph.D, 53. Instr, Stanhope High Sch, 47-48; dir. pub. rels, Twin Draulic, Inc, 48-50; info, Farm Credit Banks of Omaha, 53-58, dir. info. & res, 58-66; SECY, OMAHA BANK FOR COOP, 66- Mem. resource econ. cmt, Gt. Plains Agr. Coun, 58-64. U.S.A.A.F, 43-45, 1st Lt. Agr. Econ. Asn. Agricultural education; communication of economic information to farmers; agricultural credit; technical journalism. Publ: High school chemistry for college preparation, Agr. Ed. Mag; How much can you afford to borrow?, Successful Farming; co-auth, Financing farm and ranch activities, Farm Credit Banks of Omaha, 67. Address: 5024 Hamilton St, Omaha, Nebr. 68132.

BETZ, DEAN GABRIEL P(OHL), b. Mendota, Ill, Mar. 2, 11; m. 47; c. 2. GEOGRAPHY. B.S, Illinois, 38, M.S, 39; Northwestern, 48-49; D.S.S, Syracuse, 51. Asst. prof. geog, grad. sch. & col. arts & sci, Buffalo, 51-55; prof. geog, CALIFORNIA STATE COL.(PA), 55-57, PROF. GEOG. & EARTH SCI. & CHMN. DEPT, 57-, PROF. GEOG, GRAD. SCH, 61-, DEAN SCH. ARTS & SCI, 62- U.S.N.R, 42-46, Res, 46-, Comdr. Asn. Am. Geog; Nat. Coun. Geog. Ed. Geography of Africa south of the Sahara and the Americas. Address: School of Arts & Sciences, California State College of Pennsylvania, California, Pa. 15419.

BEUTER, DR. JOHN H, b. Chicago, Ill, Dec. 24, 35; m. 60; c. 2. FOREST ECONOMICS. B.S, Mich. State, 57, M.S, 58; Ph.D.(forestry econ), Iowa State, 66. Resource analyst, U.S. FOREST SERV, 61-63, ECONOMIST & PROJ. LEADER, 65- U.S.A.F, 58-61, Res, 61-, Capt. Soc. Am. Foresters; Forest Prod. Res. Soc. Economics of forest management and forest products marketing and utilization; general resource economics; operations research. Publ: An optimum stumpage appraisal program, Proc. Conf. Opers. Res. in Forest Industs, Int. Bus. Mach. Corp, 65; co-auth, Importance of timber-based employment to the economic base of the Douglas fir region of Oregon, Washington and California, U.S. Forest Serv. Res. Note, 68. Address: Pacific Northwest Forest & Range Experiment Station, U.S. Forest Service, P.O. Box 3141, Portland, Ore. 97208.

BEVAN, DEAN JOHN M, b. Plains, Pa, Dec. 5, 24; m. 46; c. 4. PHYSIOLOGICAL PSYCHOLOGY. A.B, Franklin & Marshall Col, 44; B.D, Duke, 46, M.A, 48, Ph.D.(psychol), 52. Instr. psychol, Duke, 48-49; asst. prof, Heidelberg Col, 49-51; assoc. prof, Davidson Col, 52-59, prof. & dean faculty, Fla. Presby. Col, 59-67; V. PRES. ACAD. AFFAIRS, UNIV. OF THE PACIFIC, 67- Soc. Sci. Res. Coun. grant, 54; vis. scholar fel, Duke, 55. U.S.N, 45. Psychol. Asn. Physiological psychology, particularly psychophysiology of stress, psychophysiology of aggression, experimental neuroses and audiogenic seizure. Address: University of the Pacific, Stockton, Calif. 95204.

BEVAN, PROF. WILLIAM, JR, b. Plains, Pa, May 16, 22; m. 45; c. 3. PSYCHOLOGY. A.B, Franklin & Marshall Col, 42; M.A, Duke, 43, Ph.D. (psychol), 48. Asst. psychol, Duke, 42-44, instr, 47; Heidelberg Col, 46, asst. prof, 47; Emory, 48-52, assoc. prof, 52-56, prof, 59; prof. & chmn. dept, Kansas State, 59-62, dean sch. arts & sci, 62-63, v.pres. acad. affairs, 63-66; PROF. PSYCHOL, V.PRES. & PROVOST, HOPKINS, 66- Fel. Center Adv. Study Behav. Sci. & Nat. Sci. Found. sr. fel, 65-66. Consult, bioastronaut. cmt, Armed Forces-Nat. Res. Coun, 59-61, vis. cmt, 60-; med. col, Baylor, 57-62; Lockheed Aircraft Corp, 55-59; Martin Co; Menninger Found; Midwest Res. Inst; physiol. training cmt, Nat. Insts. Health, 61-62. Mem. behav. sci. training cmt, Nat. Inst. Gen. Med. Sci, 62-66; Nat. Sci. Info. Coun, 66-; adv. coun, HumRRO, 67- Distinguished alumnus citation, Franklin & Marshall Col, 66. U.S.N.R, 44-46. AAAS; Psychol. Asn; Ecol. Soc; Aerospace Med. Asn; Asn. Study Animal Behavior. Sensation and perception; physiological psychology. Publ: Co-auth, Contemporary approaches to psychology, Van Nostrand, 67; auth, Concept adaptation in modern psychology, J. Psychol, 65; An adaptation-level interpretation of reinforcement, Perceptual & Motor Skills, 66. Address: Johns Hopkins University, Baltimore, Md. 21218.

BEVERLY, ROBERT F(RANCIS), b. New York, N.Y, Oct. 31, 22; m. 50; c. 2. PSYCHOLOGY. A.B, California, Los Angeles, 49, M.A, 51. Res. psychologist, aircraft observer res. lab, personnel & training res. center, Mather Air Force Base, 51-55, chief data anal. sect, 55-57; statist. analyst, Douglas Aircraft Co, 57-58; assoc. soc. res. analyst, DIV. RES, STATE DEPT. YOUTH AUTHORITY, CALIF, 58-62, SR. SOC. RES. ANALYST, 62- U.S.A.A.F, 42-46. Psychol. Asn. Experimental design; statistical analysis; proficiency measurement; delinquency. Publ: The effect of practice on circular error and its components in visual bombing, Human Resources Res. Center. Bull, Air Training Command, 2/52; A method of determination of base expectancies for use in the assessment of effectiveness of correctional treatment & An analysis of parole performance by institution of release, Calif. Dept. Youth Authority. Address: 4821 Hazelwood Ave, Carmichael, Calif. 95608.

BEVINS, PROF. ROBERT J(ACKSON), b. Concord, Tenn, Mar. 13, 28; m. 55; c. 2. AGRICULTURAL ECONOMICS. B.S, Tennessee, 49, M.S, 55; Ph.D, Mich. State, 60. Vet. teacher, pub. schs, Ind, 49-50; asst. exten. economist, Tennessee, 55-56; asst. AGR. ECON, Mich. State, 57-59, asst. prof, 60-61; Kansas State, 61-63, ASSOC. PROF, 63-67; MISSOURI, COLUMBIA, 67- U.S.A, 51-54, Sgt. Agr. Econ. Asn; Econ. Asn; Acad. Polit. & Soc. Sci. Dynamics of economic growth and its impact upon the relationship between agricultural and nonagricultural sectors. Publ: Agricultural representative program in commercial banks of Tennessee, Bull. Univ. Tenn. Agr. Exp. Sta; Do farmers subsidize consumer?, Better Farming Methods; Farmers' tax support of the educational investment in farm-nonfarm migrants, Bull. Kans. Agr. Exp. Sta. Address: Dept. of Agricultural Economics, University of Missouri, Columbia, Mo. 65201.

BEVIS, JOSEPH C, b. Harrison, Ohio, Jan. 16, 10; m. 34; c. 4. PSYCHOLOGY. A.B, Miami (Ohio), 31; M.A, Northwestern, 32. Res. analyst, Works Progress Admin, D.C, 34-40; OPINION RES. CORP, 40-45, v.pres, 45-57, pres, 57-60, CHMN. BD, 60- Mkt. Asn; Statist. Asn; Am. Asn. Pub. Opinion Res; World Asn. Pub. Opinion Res. Public opinion; employee attitude; marketing. Address: Opinion Research Corp, Research Park, Princeton, N.J. 08540.

BEXTON, PROF. WILLIAM HAROLD, b. Tyroconnel, Ont, Dec. 20, 10; m. 37; c. 3. PSYCHOLOGY. B.A, McMaster, 35; M.A, Saskatchewan, 50; Ph.D, McGill, 53. Asst. prof. PSYCHOL, Brandon Col, 43-48; lectr, Saskatchewan,

48-51; res. assoc, McGill, 51-54; prof, Waterloo, 54-63; PROF. & CHMN. DEPT, Mt. Allison, 63-65; PACIFIC LUTHERAN, 65- Psychol. Asn. Adaptation of motor skills and other psychological tests for use with the blind; effects of sensory deprivation in humans. Publ: Some effects of perceptual limitation in human subject; co-auth, Effects of decreased variation in the sensory environment & Cognitive effects of perceptual isolation, Can. J. Psychol. Address: Pacific Lutheran University, Tacoma, Wash. 98447.

BEYER, GLENN H, b. Chester, S.Dak, Aug. 11, 13; m. 40; c. 4. ECONOMICS. A.B, Augustana Col, 35; A.M, George Washington, 39. Economist, Fed. Housing Admin, 39-41; dep. regional dir, Nat. Housing Agency, 41-44, dir. housing mkt. res, 44-47; PROF. HOUSING & DESIGN, CORNELL, 47-, DIR. HOUSING RES. CENTER, 50- Leader, housing mission to Venezuela, Int. Coop. Admin, 60; Ford Found. traveling & res. fel, Europe, 61-62; summers, lectr, Grad. Sch. Savings & Loan, 59 & 60. Consult, U.S. Bur. Census; Int. Coop. Admin; consult, U.S. Housing & Home Finance Agency, mem. higher ed. adv. cmt, 60. Mem, governing bd. & chmn. ed. liaison cmt, Building Res. Inst, Nat. Acad. Sci, 61-64; Nat. Adv. Cmt. Housing Sr. Citizens, 62-; Ford Found, India, Nat. Housing Policy, 64-65. Consult. housing, Commonwealth P.R, 66- Augustana Col. Centennial award, 60. Econ. Asn; Statist. Asn. Social science aspects of human housing; research on housing in the developing countries. Publ: Housing and society, Macmillan, 65; co-auth, Housing the aged in western countries, Elsevier-Amsterdam, 67; The urban explosion in Latin America, Cornell Univ, 67. Address: 221 Bryant Ave, Ithaca, N.Y. 14850.

BEYER, DR. JACQUELYN L, b. Mitchell, S.Dak, July 11, 24. GEOGRAPHY. B.A, Colorado, 44, M.A, 54; Ph.D.(geog), Chicago, 57. Instr. GEOG, Chicago Teacher's Col, 56; asst. prof, Montana State, 57-60; lectr, Cape Town, 60-64; ASST. PROF, RUTGERS, 64- Vis. lectr, Texas, 58-59. W.A.C, 44-48, 52, 2nd Lt. Am. Geog. Soc; Asn. Am. Geog; Nat. Coun. Geog. Ed; African Studies Asn. Resource management, conservation and perception; economic development and cultural change, especially in Africa. Publ: Integration of grazing and crop agriculture, Univ. Chicago, 58; Perception of flood hazard in a small New Jersey town, Proc. Am. Water Resources Asn, 67. Address: Dept. of Geography, Rutgers University, Newark, N.J. 07102.

BEYER, DR. WILLIAM C(ARL), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BEYER, DR. W(ILLIAM) H(YMAN), Math. Statist, Appl. Math, see Suppl. II & IV to 11th ed, Phys. & Biol. Vols.

BEYERL, DR. MERRILL C(HARLES), b. Malone, N.Y, Sept. 13, 21; m. 43; c. 3. CLINICAL PSYCHOLOGY. B.S, Syracuse, 46, M.S, 48, Ph.D, 53. Asst. prof. PSYCHOL, Illinois, 50-53; BALL STATE, 53-56, from assoc. prof. to PROF, 56-, V.PRES. STUDENT AFFAIRS, 64-, dir. counseling & psychol. serv. center, 56-62, dean students, 62-64. U.S.M.C, 42-46, Capt. Psychol. Asn; Personnel & Guid. Asn; Nat. Ed. Asn; Asn. Ment. Deficiency. Address: Dept. of Psychology, Ball State University, Muncie, Ind. 47306.

BEYLE, DR. THAD (LEWIS), b. Syracuse, N.Y, May 11, 34; m. 57; c. 4. POLITICAL SCIENCE. B.A, Syracuse, 56, fel. & M.A, 60; Merriam fel, Illinois, 61-62, Garner fel, 62-63, Ph.D.(polit. sci), 63. Asst. prof. govt, Denison, 63-65; res. assoc. state govt, Duke, 65-67; ASST. PROF. POLIT. SCI, NORTH CAROLINA, CHAPEL HILL, 67- Nat. Center Ed. Polit. faculty fel, Gov. Off, N.C, 64-65. Consult, Inst. State Prog. for the 70's, N.C, 67- Polit. Sci. Asn. State government and politics; national, state and local public policy formation and administration; American federalism, government and politics; intergovernmental relations; methodology. Publ: Recent federal library legislation and the states: North Carolina as a case in point, Nat. Adv. Cmn. Libraries, 68; Contested elections and voter turnout in a local community: a problem in spurious correlation, Am. Polit. Sci. Rev, 3/65. Address: 503 Landerwood Dr, Chapel Hill, N.C. 27514.

BEYM, DR. RICHARD, Lang. Training & Admin, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

BEYRER, PROF. J(OHN) BENJAMIN, b. South Bend, Ind, Aug. 17, 13; m. 45; c. 2. SOCIOLOGY. A.B, Notre Dame, 35; Indiana, 41-42; A.M, Chicago, 46. Prin. & case supvr, Blue Ridge Indust. Sch, Va, 36-37; caseworker pub. assistance, South Bend, Ind, 37, probation officer, St. Joseph County Juvenile Court, 38-42; caseworker home serv, Am. Red Cross, 45-47; asst. prof. SOC. WORK, sch. soc. welfare, Fla. State, 47-53; from assoc. prof. to PROF, SCH. SOC. WORK, CONNECTICUT, 53- Vis. prof, Melbourne, 60; researcher, Australian Commonwealth Dept. Soc. Serv, 60. Consult, State Children's Cmn, Fla, 48-50; State Legis. Ref. Bur, 50-51; Dunlap & Assocs, Conn, 65- U.S.A, 42-45. Pub. Welfare Asn; Asn. Soc. Workers. Family allowances in the United States; local public welfare responsibilities. Publ: Guaranteed minimum income: new proposal to end poverty, Conn. Govt, 1/66. Address: School of Social Work, University of Connecticut, Greater Hartford Campus, 1800 Asylum Ave, West Hartford, Conn. 06117.

BHAGAT, DR. GOBERDHAN, b. Bhagalpur, India, Dec. 20, 28; m. 61; c. 1. INTERNATIONAL RELATIONS. B.A, Tej Narain Jubilee Col, India, 48; M.A, Patna, 50; M.A, Minnesota, Minneapolis, 55; M.A, Yale, 60, Ph.D.(int. rels), 63. Adv. econ. & polit, Permanent Mission of India, UN, 56-64; asst. prof. INT. RELS. & ASIAN STUDIES, MISSISSIPPI, 64-66, ASSOC. PROF, 66- Mem, Conf. Brit. Studies, 65-67. Asian studies; America's commercial and consular relations with India, 1784-1860; the diplomacy of aid; case studies in international affairs. Publ: Materials relating to eighteenth and nineteenth century Indo-American trade & consular relations in private archives in the United States, Nat. Arch. J, India, 67. Address: Dept. of Political Science, University of Mississippi, University, Miss. 38677.

BHANSALI, DR. KRISHNAPRASAD G, b. Mahugha, India, Feb. 27, 28; m. 61; c. 1. POLITICAL SCIENCE. B.A, Visva Bharati Univ, 50; Howard, 51-53; Ph.D.(int. rels), American Univ, 61; Texas, Austin, 64. Clerk, Embassy of India, D.C, 53-61; asst. prof. polit. sci, Texas Southern, 62-65, ASSOC. PROF, 65-67; INT. RELS, MISS. STATE, 67- Lectr, Texas, Austin, summer, 64; North Carolina & Duke, 68-69. Polit. Sci. Asn. International relations of South and Southeast Asia; political parties in India. Address: Dept. of Political Science, Mississippi State University, State College, Miss. 39762.

BHARATI, PROF. AGEHANANDA, b. Vienna, Austria, Apr. 20, 23. ANTHROPOLOGY. Vienna, 41-48. Prof. philos, Benares Hindu Univ, India, 51-54; comp. relig, Buddhist Univ, Thailand, 55-56; vis. prof. Indian philos, Asia Found, Univs. Tokyo & Kyoto, 56; res. assoc. Far Eastern studies, Washington (Seattle), 57-61; PROF. ANTHROP, SYRACUSE, 61- Nat. Inst. Ment. Health grant, 64-65. Consult, spec. res. opers. off, American Univ. & U.S. Dept. Army, 59-60. Fel. Anthrop. Asn; Asn. Asian Studies; Oriental Soc; Soc. Sci. Study Relig; Royal Inst. Philos. Cultural patterns in India; Indian and other Asian traditional ideologies, especially religio-philosophical; comparative analysis of occidental models of thought and communication and Indic models; Indic linguistics, semasiology and languages; South Asian minorities in East Africa; culture change in South Asia; Tibetan language and literature. Publ: The ochre robe, Univ. Washington (Seattle), 62; Functional analysis of Indian thought and its social margins, Chowknamba, Benares, India, 64; The Tantric tradition, Rider, London, 66. Address: Dept. of Anthropology, Syracuse University, Steek Hall, Syracuse, N.Y. 13210.

BHARGAVA, DR. RAGHUNANDAN PRASAD, b. Ujjain, M.P, India, Nov. 16, 20; m; c. 2. STATISTICS. M.Sc, Allahabad, 41; M.Sc, Calcutta, 43; Ph.D.(statist), Stanford, 62. Res. asst. statist, Indian Statist. Inst, India, 43-46; asst. statistician, Forest Res. Inst, India, 48-59 & 64-65; mem. tech. staff, Bell Tel. Labs, Pa, 62-63; vis. asst. prof. math, Catholic Univ, 63-64; vis. prof, TORONTO, 65-66, ASSOC. PROF. STATIST, ONT. INST. STUDIES ED, 66-, Teacher, Lehigh. Inst. Math. Statist. Multivariate problems with incomplete data; structural inference. Address: Dept. of Measurement & Evaluation, Ontario Institute for Studies in Education, 102 Bloor St. W, Toronto 5, Ont, Can.

BHARGAVA, DR. T(RILOKI) N(ATH), b. Lucknow, India, Aug. 21, 33. STATISTICS. B.Sc, Lucknow, India, 52 & 53, M.Sc, 54; Ph.D, Mich. State, 62. Lectr. math. & statist, Khalsa Col, India, 54-55; statist, Gujarat Univ, India, 55-57; asst. prof, Agra, 57-58; assoc. prof. math, Elizabeth City State Teachers Col, N.C, 61-62; asst. prof. MATH. & STATIST, KENT STATE, 62-64, assoc. prof, 64-67, PROF, 67- Vis. prof, Heidelberg, 65, Sheffield, 66; Nat. Sci. Found. res. grant, 63-64; NASA res. grants, 63-67. Joint secy. planning cmn. proj, Merrut, India, 55; in charge joint proj, India Govt. & Univ. Agra, 57-58. Math. Soc; Math. Asn; Am. Statist. Asn; Inst. Math. Statist; fel. Royal Statist. Soc. Mathematical and applied statistics. Publ: Time changes in a digraph, J. Appl. Probs, 6/65; co-auth, A topology for general binary systems, Proc. Int. Symp. Topology, 67; On topological spaces associated with digraphs, Acta Mathematica, 68. Address: Dept. of Mathematics, Kent State University, Kent, Ohio 44240.

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BHATTACHARYYA, DR. G(OURI) K(ANTA), b. Hooghly, W.Bengal, India; Jan. 12, 40; m. 62; c. 1. STATISTICS, MATHEMATICS. B.Sc, Calcutta, 58, M.Sc, 60; Ph.D.(statist), California, Berkeley, 66. Lectr. STATIST, R.K. Mission, Narendrapur, India, 61; res. officer, River Res. Institute, Calcutta, 61-63; ASST. PROF, California, Berkeley, 66; WISCONSIN, 66- Consult, sch. med, Wisconsin, 67- Inst. Math. Statist. Statistical inference, especially multivariate nonparametric methods. Publ: A note on the asymptotic efficiency of Bennett's bivariate sign test, J. Royal Statist. Soc, 66; Asymptotic efficiency of multivariate normal score test, 67 & co-auth, Nonparametric tests for the detection of shift at an unknown time point, (in press), Ann. Math. Statist. Address: Dept. of Statistics, University of Wisconsin, 1210 W. Dayton, Madison, Wis. 53706.

BIADASZ, COMDR. FRANCES ELIZABETH, U.S.N, b. Webster, Mass, Apr. 21, 14. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.S, Mass. State Col. Worcester, 35; M.A, Georgetown, 53, Ph.D.(int. rels), 61. U.S. NAVY, 42-, spec. asst. to chief naval opers, D.C, 57-59, spec. asst. int. & pub. rels, Adv. Group Aeronaut. Res. & Develop, NATO, France, 59-60, assoc. prof. int. rels, Naval Postgrad. Sch, 60-65, head socio-polit. sect. S.E. Asia, Counterinsurgency Div, Naval Amphibians Sch, Calif, 65-67, COMMANDING OFFICER, RECRUIT TRAINING COMMAND (WOMEN), NAVAL TRAINING CENTER, 67- Organization for national security in the United States. Publ: Proposals for defense reorganization: analysis and evaluation.

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BIALEK, DR. HILTON M(ARVIN), b. Passaic, N.J, July 11, 26; m. 52; c. 3. PSYCHOLOGY. B.A, Rutgers, 50; M.A, Columbia, 51; Ph.D, Claremont Cols, 57. Psychometrist, Vet. Admin, N.J, 50; counseling psychologist, Jewish Voc. Serv, 52-54; lectr. PSYCHOL, Claremont Cols, 55-57; RES. SCIENTIST, HUMRRO, 57- Nat. Inst. Ment. Health res. grant, Napa State Hosp, Calif, 58-59. U.S.N, 44-46. AAAS; Psychol. Asn. Educational evaluation and research. Address: Box 329, Route 1, Carmel, Calif. 93921.

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BIESANZ, PROF. JOHN B(ERRY), b. Winona, Minn, Aug. 24, 13; m. 40; c. 3. SOCIOLOGY, ANTHROPOLOGY. A.B, Chicago, 36; London Sch. Econ. & Polit. Sci, 39; Ph.D.(sociol), Iowa, 41. Instr, Minn. State Teachers Col, Winona, 40-42; exchange prof, Costa Rica, 42-43; U.S. Dept. State vis. prof, Panama, 46-47; assoc. prof. sociol. & anthrop. & chmn. Latin-Am. regional studies, Pittsburgh, 47-48; assoc. prof. sociol. & mid-Am. res. assoc, Tulane, 48-50; from assoc. prof. to PROF. SOCIOL. & ANTHROP, WAYNE STATE, 50-, dir. soc. sci. prog, 50-67. Smith-Mundt prof, Guatemala, 56; Fulbright res. grant, Germany, 58-59; lectr, Peace Corps Training Camp, P.R, 67. UN community develop. adv, Paraguay, 64-65. Mem, Nat. Coun. Soc. Studies. Fel. Sociol. Asn; fel. Anthrop. Asn. Social science; marriage and the family; Latin-American regional studies. Publ: Sr. auth, Costa Rican life, Modern society & People of Panama. Address: Dept. of Sociology & Anthropology, Wayne State University, Detroit, Mich. 48202.

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BIEVER, BRUCE F, S.J, b. Milwaukee, Wis, July 24, 33. CULTURAL ANTHROPOLOGY. A.B, St. Louis, 58, Ph.L, 59, M.A, 60, S.T.L, 67; Harrison fel, Pennsylvania, 61-63, M.A, 62, Kent fel, 63-65, Ph.D.(Am. civilization), 65. Instr. SOCIOL. & ANTHROP, Kansas State, 66-67; ASSOC. PROF, MARQUETTE, 67- Anthrop. Asn; Am. Studies Asn; Sociol. Asn; Acad. Polit. & Soc. Sci. Sociology of religion; attitude analysis in regard to religious motivation; social role of American church groups; methodology of social

analysis. Publ: The social role of the Catholic Church in Ireland and the United States, Univ. Michigan, 65. Address: Dept. of Sociology, Marquette University College of Liberal Arts, Milwaukee, Wis. 53233.

BIGELOW, PROF. KARL W(ORTH), b. Bangor, Maine, May 10, 98; m. 21; c. 4. SOCIAL SCIENCE. A.B, Clark, 20, L.H.D, 38; Cornell, 20-21; Ph.D.(econ), Harvard, 29; LL.D, Parsons Col, 41, Moravian Col, 63. Instr. econ, Cornell, 20-21; tutor & instr, Harvard & Radcliffe Col, 21-30, chmn. bd. tutors in sociol. & soc. ethics, 28-30; asst. prof. econ, Buffalo, 30-31, prof, 31-37, dir. tutorial instr, 35-37; prof. ED, TEACHERS COL, COLUMBIA, 37-63, EMER. PROF, 63-, DIR. AFRO-ANGLO-AM. PROG, 60-, vis. prof, 36-37, dir. inst. ed. in Africa, 62-66. Head Park Sch, N.Y, 33-35; vis. lectr, inst. ed, London, 58; Inglis lectr, grad. sch. ed, Harvard, 64. Consult, Gen. Ed. Bd, 37-38; dir. cmn. teacher ed, Am. Coun. Ed, 38-44, chmn. coun. coop. in teacher ed, 45-50, v.chmn. overseas liaison cmt, 63-; dir. seminar ed. & training of teachers, UNESCO, Eng, 48, mem. U.S. Nat. Cmn, 48-54, mem. gov. bd, inst. ed, Germany, 57-61; chmn. cmn. ed. orgn, Nat. Conf. Christians & Jews, 48-49; mem. provisional coun, Univ. Zambia, 64- U.S.N.R, 17-19. Fel. African Studies Asn. General and teacher education; administration of higher education; African education. Publ: Co-auth, The Social studies in general education, Appleton, 40, The improvement of teacher education, Am. Coun. Ed, 46 & Education and foreign affairs, Harvard, 65. Address: 525 W. 120th St, New York, N.Y. 10027.

BIGGE, PROF. MORRIS L, b. Stockton, Kans, Dec. 20, 08; m. 32; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Washburn, 31; M.S, Michigan, 38; Ph.D. (philos. ed, psychol), 51. Teacher, pub. schs, Kans, 31-44; asst. prof. ed. & psychol. & dir. Vet. Serv. Bur. & dean students, Washburn, 46-50; asst. prof. ED, FRESNO STATE COL, 50-56, assoc. prof, 56-61, PROF, 61-, CHMN. GRAD. STUDIES, ED. DIV, 56- U.S.A.A.F, 44-46, T/Sgt. Philos. Ed. Soc. Interdependencies of educational philosophy and psychology. Publ: Co-auth, Psychological foundations of education, 62, 68; auth, Learning theories for teachers, 64, Harper; Relativistic definition of stimulas-response, J. Ed. Psychol. Address: School of Education, Fresno State College, Fresno, Calif. 93726.

BIGGS, ARTHUR P(ERRY), b. Detroit, Mich, May 5, 10; m. 40. GEOGRAPHY. B.A, California, Los Angeles, 33. Geogr, U.S. DEPT. STATE, 45-47, geog. attache, Am. Embassy, Bogota, 47-48, Buenos Aires, 48-51, 56-60, Caracas, 51-53, Cairo, 54-56, D.C, 60-64, geog. attache, Am. Embassy, Paris, 64-66, Rio de Janeiro, 67-68, COORDINATOR MAPS & PUB, D.C, 68- U.S.A, 43-45. Asn. Am. Geog; Soc. Photogram; Asn. Pac. Coast Geog. Political, economic and human geography of Latin American tropical highlands; map intelligence. Address: Coordinator for Maps & Publications, Dept. of State, Washington, D.C. 20521.

BIGGS, PROF. ROBERT M(ITCHELL), b. Mio, Mich, Aug. 29, 15; m. 53. ECONOMICS. Fel, Michigan, 41-45, Ph.D.(econ), 51. Instr. econ, Detroit, 49-50, asst. prof, 50-54, assoc. prof, 54-58, prof, 58-60; prof. econ. & bus. admin. & chmn. dept, Jamestown Col, 61-63; PROF. ECON, TOLEDO, 63- Econ. Asn; Finance Asn. National income analysis and economic forecasting; automobile market forecasting. Publ: National income analysis and forecasting; Income at product and factor prices, J. Finance. Address: Dept. of Economics, University of Toledo, Toledo, Ohio 43606.

BIGGS, PROF. WILLIAM E(LBERT), b. Crystal Springs, Miss, Dec. 4, 15. POLITICAL SCIENCE. A.B, Louisville, 38, LL.B, 40, M.A, 49; Ph.D.(polit. sci), Ohio State, 56. Asst. prof. govt. & pub. admin, American Univ, 52-55, assoc. prof, 55-60; dir, Community Res, Inc, Ohio, 60-62; assoc. prof. law, Louisville, 62-65; PROF. polit. sci, Ky. South. Col, 65-67; LAW, LOUISVILLE, 67- Med.Admin.C, U.S.A, 41-45. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Pub. Admin. Public law and administration; urban government. Publ: Co-auth, Compensation of county officers, Ky. Legis. Res. Cmt, 65; auth, Public higher education for the Dayton area; Kind of charter needed for Montgomery County, Ohio. Address: 2033 Bonnycastle Ave, Louisville, Ky. 40205.

BIGLER, PROF. EUGENE, b. Bluffton, Ohio, Mar. 14, 11; m. 39; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Bluffton Col, 33; M.A, Ohio State, 35. Prof, Dyke Col, 36-46; ASSOC. PROF. BUS. ADMIN, KENT STATE, 46- Asst, Nat. Res. Proj, 36-37; prof, Akron chapter, Am. Inst. Banking, 49-58. Econ. Asn. Business organization and management. Address: 427 E. School St, Kent, Ohio 44240.

BIGMAN, STANLEY K(ERMIT), b. New York, N.Y, Nov. 19, 15; m. 43; c. 2. SOCIOLOGY. A.B, City Col. New York, 41; A.M, Columbia, 47. Instr. sociol, Rutgers, 47-48; res. assoc, bur. appl. soc. res, Columbia, 50-52, lectr, sociol, sch. gen. studies, 51; res. assoc, bur. soc. sci. res. & lectr. sociol, American Univ, 52-56; RES. CONSULT, 56-; SR. ASSOC, WASH. CENTER FOR METROP. STUDIES, 67- Res. training fel, Soc. Sci. Res. Coun, 48-50; lectr, U.S. Dept. Agr. Grad. Sch, 54-55; res. assoc.prof. & dir. off. soc. & environ. res, Gallaudet Col, 58-61; res. assoc, col. med, Howard, 60-61; surv. statistician, bur. pub. assistance, Soc. Security Admin, 61-62; chief soc. studies sect, div. occup. health, U.S. Pub. Health Serv, 62-67. Consult, UNESCO, 49. Proj. dir. study unmarried mothers, D.C. Comnr's Youth Coun, 58. U.S.A, 42-46. Sociol. Asn; Soc. Study Social Probs; Asn. Pub. Opinion Res; Pub. Health Asn; Asn. Intergroup Rels. Officials. Publ: Unmarried mothers and illegitimate births in D.C; Occupational conditions among the deaf; Cultural considerations in changing health attitudes. Address: 3302 Camalier Dr, Chevy Chase, Md. 20015.

BIGOSINSKI, DR. JERRY T(HEODORE), b. Bydgoszcz, Poland, May 13, 29; nat; m. 58; c. 1. ECONOMICS. B.A, Ill. Col, 51; M.A, Hopkins, 52; Ph.D. (econ), N.Y. Univ, 63. Asst. econ. analyst for. econ, First Nat. City Bank New York, 56-59; sr. res. analyst, State Banking Dept, N.Y, 59-65; CHIEF ECONOMIST, TIPPETTS-ABBETT-McCARTHY-STRATTON, 65- U.S.A, 52-55. Econ. Asn; Acad.Polit. & Soc. Sci. Money and banking. Address: 439 Crest Dr, Northvale, N.J. 07647.

BIHLER, HUGH J(OSEPH), S.J, b. Buffalo, N.Y, Apr. 15, 98. PSYCHOLOGY. A.B, Boodstock Col.(Md), 23, A.M, 24; Ph.D.(psychol), Vienna, 37. PROF. exp. psychol, Woodstock Col.(Md), 37-52, CULTURAL ANTHROP, 43-52; Bellarmarine Col, 52-55; LOYOLA SEM, 55- Psychol. Asn. Experimental thought psychology. Address: Loyola Seminary, Shrub Oak, N.Y. 10588.

BIJOU, PROF. SIDNEY W(ILLIAM), b. Baltimore, Md, Nov. 12, 08; m. 34; c. 2. PSYCHOLOGY. B.S, Florida, 33; A.M, Columbia, 36; scholar, Iowa, 39, Ph.D.(psychol), 41. Psychologist, Bd. Ed, New York, 36-37; State Ment. Hyg. Clin. & Hosp, Del, 37-39; asst. psychol, Iowa, 40-41; res. assoc, Wayne County Training Sch, 41-42, 46-47; asst. prof. psychol. & dir. grad. training clin. psychol, Indiana, 46-48; assoc. prof. psychol, Washington (Seattle), 48-51, prof, 51-65, dir. Gatzert Inst. Child Develop, 48-65; PROF.PSYCHOL. & DIR. CHILD BEHAVIOR LAB, ILLINOIS, URBANA, 65- Nat. Insts. Health sr. fel, 61-62. Consult, Nat. Inst. Child Health & Human Develop, 64-67. Ed, J. Exp. Child Psychol, 64- Mem. ment. health study sect, Nat. Insts. Health, 68-71; adv. bd, Nat. Asn, 65. U.S.A.A.F, 42-46, Capt. Fel. Psychol. Asn; Soc. Res. Child Develop; Psychonomic Soc. Experimental analysis of child behavior and development. Publ: Co-auth, Child development: a systematic and empirical theory, 61; co-auth, Child development: the universal stage of infancy, 64 & Child development: readings in experimental analysis, 67, Appleton. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61801.

BILAS, DR. RICHARD A(LLEN), b. Passaic, N.J, Feb. 3, 35; m. 56; c. 3. ECONOMICS. A.B, Duke, 56; Ph.D.(econ), Virginia, 63. Asst. prof. ECON, Southern California, 62-66, ASSOC. PROF, 66-67; GA. STATE COL, 67- Fulbright res. grant, Philippines Econ. Inst, 66-67 & summers 65-67. Econ. Asn. Economic theory, particularly the theory of the firm and resource allocation. Publ: Microeconomic theory: a graphical analysis, McGraw, 67; Liebhafsky and the constant marginal utility of the numeraire: a comment, Can. J. Econ. & Polit. Sci, 2/65; A note on the measurement of monopoly power, West. Econ. J, spring 65. Address: Dept. of Economics, Georgia State College, Atlanta, Ga. 30303.

BILBIJA, DR. ZARKO G(AVRILO), Finance, see 10th ed, Soc. & Behav. Vols.

BILEK, ARTHUR JOHN, b. Chicago, Ill, Oct. 21, 29; m. 54; c. 4. CRIMINOLOGY. B.S, Loyola (Ill), 51, M.S.W, 53; Chicago-Kent Col. Law, 56-58. Lt, Chicago Police Dept, Ill, 53-62; chief police, Cook County Sheriff's Police Dept, 62-66; part-time prof. sociol, ILLINOIS, CHICAGO, 66-67, DIR. ADMIN. CRIMINAL JUSTICE, 67- Guest lectr, South. Police Inst, Univ. Louisville, 62-; U.S.Probtn. Training Center, Chicago, 67- Part-time dir. law enforcement corrections, St. Joseph's Col.(Ind), 58-60. U.S.A, 53-55, Res, 56-58, 1st Lt. Acad. Forensic Sci; Sociol. Asn. Criminal justice; police administration; law enforcement; police science. Publ: Survey of the rangers of the forest preserve district of Cook County, Illinois, Bd. Cmnr. Cook County, 68. Address: Dept. of Criminal Justice, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

BILGER, DR. ROBERT C(LARK), b. Ft. Wayne, Ind, Aug. 17, 26; m. 52; c. 4. EXPERIMENTAL PSYCHOLOGY. Ph.D.(psychol), Purdue, 54. Asst. voice commun, Purdue, 50-54; res. assoc. psychoacoustics, Cent. Inst. Deaf, 54-58; asst. prof. AUDIOL, Michigan, 58-60; SCH. MED, PITTSBURGH, 60-62, ASSOC. PROF, 62- Mem. cmt. hearing, bioacoustics & biomech, Nat. Acad. Sci-Nat. Res. Coun, 67-68. AAAS; Psychol. Asn; fel. Speech & Hearing Asn; Psychonomic Soc. Psychoacoustics; statistics; theory of signal detectability. Address: Dept. of Audiology, School of Medicine, University of Pittsburgh, Pittsburgh, Pa. 15213.

BILIMOVICH, DR. ALEXANDER D, Econ, see 10th ed, Soc. & Behav. Vols.

BILINSKI, DR. C(HESTER) R(OBERT), Psychol, see 10th ed, Soc. & Behav. Vols.

BILINSKY, DR. YAROSLAV, b. Lutsk, Ukraine, Feb. 26, 32; nat. POLITICAL SCIENCE. B.A, Harvard, 54; univ. & Class 1883 fels, Princeton, 54-56, Ph.D.(polit. sci), 58; Penfield traveling scholar from Pennsylvania. Instr. POLIT. SCI, Douglass Col, Rutgers, 58-61; asst. prof, DELAWARE, 61-65, ASSOC. PROF, 65- Summer vis. instr, Pennsylvania, 61. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Ukrainian Acad. Arts & Sci. in U.S. Soviet politics in its internal and external aspects; African affairs. Publ: The second Soviet Republic: the Ukraine after World War II, Rutgers Univ, 64; The Soviet education laws of 1958-9 and Soviet nationality policy, Soviet Studies, 10/62; The rulers and the ruled, Probs. of Communism, 9-10/67. Address: Dept. of Political Science, University of Delaware, Newark, Del. 19711.

BILKEY, DR. WARREN J(OSEPH), b. Poynette, Wis, Feb. 2, 20; m. 49; c. 5. ECONOMICS. B.S, Wisconsin, 41; A.M, Harvard, 49, Ph.D.(econ), 50. Fro instr. to asst. prof. econ, Connecticut, 49-58; ASSOC. PROF, Notre Dame, 58-63; BUS, WISCONSIN, 64- Economist, Cent. Bank of Dominican Rep, 64-65; summer econ. adv, President of Dominican Rep, 63, consult, Minister of Indust. & Commerce, 63. U.S.A, 42-46, Capt. Econ. Asn. Consumer behavior analysis; industrial development; industrial stimulation in El Salvador and in Costa Rica. Publ: Vector hypothesis of consumer behavior, J. Mkt; Industrial stimulation in the Caribbean, Rev. Soc. Econ, 3/67; Psychic tensions and purchasing behavior, J. Soc. Psychol. Address: School of Business, University of Wisconsin, Madison, Wis. 53706.

BILL, DR. JAMES ALBAN, b. La Crosse, Wis, Mar. 2, 39; m. 65. POLITICAL SCIENCE. B.A, Assumption Col, 61; M.A, Pa. State, 63; Ford Found. fel. & M.A, Princeton, 65, For. Area fel, Hon. Fulbright-Hayes fel. & Ph.D. (polit), 68. Res. fel, Princeton Univ, Tehra, Iran, 65-66; ASST. PROF. GOVT, TEXAS, AUSTIN, 68- Guest lectr, peace corps training prog, Reed Col, 67. U.S.A, 57-58. Polit. Sci. Asn. Comparative politics, Middle East politics; Analysis of patterns and processes of socio-political change. Publ: The social and economic foundations of power in contemporary Iran, Midd. East J, autumn 63. Address: 7507 Northcrest Blvd, Austin, Tex. 78752.

BILLIG, DR. ALBERT L(eROY), b. Bloomsburg, Pa, Oct. 9, 06; m. 31. PSYCHOLOGY. B.S, Muhlenberg, 30; A.M, Columbia, 36; Ed.D.(psychol), Temple, 41; summers, Columbia, 45-46; M.A, New Sch. Soc. Res, 61. Teacher math, Allentown High Sch, 35-58; CONSULT. PSYCHOLOGIST, 47-

Assoc. prof, Northampton County Area Community Col, 68- Fel. AAAS; fel. Psychol. Asn; Rehab. Asn. Emotions; learning; mental hygiene; image of the in-service public school teacher. Publ: Fingernail biting; Approaches in learning; Serving the emotionally handicapped. Address: 1328 Gordon St, Allentown, Pa. 18102.

BILLIGMEIER, PROF. ROBERT H, b. U.S, Jan. 16, 17; m. 40; c. 3. SOCIOLOGY. A.B, Stanford, 38, Ph.D, 51; M.A, California, 39. Jr. statistician, Wartime Civil Control Admin, 42; field res. asst, California, 42-43; pop. analyst, U.S. Dept. State, D.C, 43-45; instr. hist, Stanford, 46-50; sociol, San Francisco State Col, 50-51; CALIFORNIA, SANTA BARBARA, 52-55, asst. prof, 55-67, ASSOC. PROF. SOCIOL. & ASSOC. DIR. ED. ABROAD PROG, 67- Pop. Asn; Sociol. Asn. Inter-ethnic contact and systems of ethnic stratification; historical evaluation of cultural pluralism in Switzerland; nineteenth century national movement in central Europe. Publ: Aliens in Germany, 1939; co-auth, Ethnic stratification; co-ed, The old land & the new, the journals of two Swiss families in America in the 1820's, Univ. Minnesota, 65. Address: Dept. of Sociology, University of California, Santa Barbara, Calif. 93106.

BILLINGHAM, DR. CAROL JEAN, b. Orange, N.J, Dec. 25, 26; m. 55; c. 1. ECONOMICS, PSYCHOLOGY. B.A, Wellesley Col, 48; M.A, Yale, 49; fel, N.Y. Univ, 51, Ph.D.(econ), 54. Mkt. res. analyst, Nat. Broadcasting Co, New York, 49-50; asst. investment adv, White, Weld & Co, 51-52; petrol. economist, Scudder, Stevens & Clark, 52-58; mkt. res. mgr, LEONARD REFINERIES, INC, 58-67, MGR. ECON. ANAL, 67-; ASST. PROF. BUS, CENTRAL MICHIGAN, 67- Instr. City Col. New York, 55-56; res. assoc. agr. econ, Mich. State, 60-; summer economist, Nat. Indust. Conf. Bd, New York, 44-48. Owner & financial mgr, Billingham Egg Farm, Inc, 59-67, pres, 67- AAAS; Econ. Asn; Statist. Asn. Corporation finance and investments; economics of petroleum industry and marketing of products; agricultural economics of poultry industry and management of enterprises. Publ: Expansion and the petroleum industry, Analysts J; Oil's capital expenditures, Oil & Gas J; Flash guide, J. Photog. Soc. Am. Address: 4354 Birmingham Rd, Alma, Mich. 48801.

BILLINGS, PROF. ARTHUR G(OODWYN), b. Delphos, Kans, Jan. 1, 11; m. 53. INTERNATIONAL ECONOMICS. A.B, Kansas, 33; cert, Paris, 34 & 35; M.A, Harvard, 41, Ph.D.(econ), 52. Clerk-translator, U.S. Embassy, Moscow, 35-38; instr. econ, Texas, 41-42; rep, Am. Friends Serv. Cmt, Austria, 46-49; economist, Int. Monetary Fund, 52-54; chief of mission to Yugoslavia, CARE, Inc, 54-55; vis. prof. ECON, Southern Illinois, 56; Colorado, 56-57; vis. lectr, Wisconsin, 58; assoc. prof, Univ. Kansas City, 58-60; Kansas State, 60-62; INDIANA STATE, 62-66, PROF, 66- V.pres, State Bank, Delphos, Kans, 62- Econ. Asn; Polit. Sci. Asn. International economics; national income analysis; comparative economic systems; monetary theory. Publ: Austrian economy, its national endowment and its historical development prior to 1945. Address: Dept. of Economics, Indiana State University, Terre Haute, Ind. 47809.

BILLINGS, LLOYD C(ALVIN), b. Kans, Sept. 11, 20; m. 47. STATISTICS. B.S, Kans. State Col, 43; A.M, Missouri, 48. Asst. prof. econ. & statist, Fenn Col, 48-60; LECTR. BUS. ADMIN, ARIZONA, 60- U.S.N.R, 43-46, Lt.(jg). Statist. Asn; Finance Asn. Applied business statistics. Publ: Consumer acceptance of self-service packaged meats; Radio listening habits in the Cleveland area. Address: 2247 E. Calle Alta Vista, Tucson, Ariz. 85719.

BILLINGSLEA, DR. FRED Y, Psychol, see 10th ed, Soc. & Behav. Vols.

BILLINGSLEY, DR. RAY VERNE, b. Mutual,Okla, Oct. 5, 27; m. 50; c. 3. ECONOMICS. B.S, Okla. State, 49, M.S, 52; summer, Case, 54; Ph.D.(agr. econ), N.C. State, 56. Instr. agr. econ, Okla. State, 49-52; res. asst, N.C. State, 52-56; from asst. prof. to assoc. prof, Texas Tech. Col, 56-60; vis. prof, Chicago, 60-62; chief trade sect, Food & Agr. Orgn, 62-65; ASSOC. PROF. AGR. ECON, TEXAS A&M, 65- Ford Found. summer faculty res. fel, Stanford, 60 & res. task force grant, Texas A&M, 66-68. Agr. Econ. Asn; Econ. Asn; Int. Asn. Agr. Econ. Economics of water resource use; marketing and economic development in Burma and the Dominican Republic; economic evaluation of the beef industry; area income and productivity. Publ: The economics of state trading, Rangoon Univ, Burma, 62; Measuring income and factor productivity changes, La. State & U.S. Dept. Agr, 66; co-auth, Electronic computers for least cost land-forming computations, Am. Soc. Agr. Eng. Trans, 66. Address: Dept. of Agricultural Economics, Texas A&M University, College Station, Tex. 77843.

BILLINGTON, DR. RAY A(LLEN), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BILLINGTON, DR. WILBUR T(HEODORE), b. Lafayette, Colo, May 10, 22; m. 45; c. 3. ECONOMICS. B.S, Colorado, 45, M.A, 47; Brown, 47-48; Ph.D. (econ), Minnesota, 52. Indust. economist, FED. RESERVE BANK OF KANSAS CITY, 52-61, sr. economist, 61-63, V.PRES. & SR. ECONOMIST, 63- U.S.A.A.F, 43-46, 50-52, Capt. Econ. Asn; Statist. Asn. Monetary theory and policy; business fluctuations; economics of growth, methodology. Address: Federal Reserve Bank of Kansas City, Kansas City, Mo. 64198.

BILLS, PROF. ARTHUR G(ILBERT), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

BILLS, DR. MARION A(LMIRA), Psychol, see 10th ed, Soc. & Behav. Vols.

BILLS, DEAN ROBERT E(DGAR), b. Nutley, N.J, Dec. 15, 16; m. 44; c. 2. PSYCHOLOGY. B.S, West. Ky. State Col, 38; M.A, Kentucky, 46; Ed.D.(psychol), Columbia, 48. Asst. prof. psychol, Kentucky, 48-53, assoc. prof, 53-56, chmn. div. biol. sci, 51-52; prof. psychol. & chmn. dept, Auburn, 56-61; prof. ed. psychol. & asst. dean res, ALABAMA, 61-63, interim dean COL. ED, 63-65, DEAN, 65- Summers, vis. asst. prof, col. ed, Florida, 51 & 52, vis. lectr, col. ed, Mich. State, 56, vis. prof, col. ed, Washington (Seattle), 63. Chief res. consult, State Dept. Ed, W.Va, 59-61. Mem. bd. dirs, Southeast. Ed. Lab, 66-67. U.S.A, 42-43. Fel. AAAS; fel. Psychol. Asn.(secy, 63-66). Educational and psychological consulting to schools; psychological factors in the enhancement of human development. Publ: Nondirective play therapy with retarded readers & Index of adjustment and values, J. Consult. Psychol; About people and teaching, Bull, Bur. Sch. Serv. Address: College of Education, University of Alabama, University, Ala. 35486.

BILODEAU, PROF. EDWARD A(LFRED), b. Hopedale, Mass, Oct. 22, 24; m. 48; c. 1. PSYCHOLOGY. A.B, Brown, 46, M.S, 48; Ph.D.(psychol), Iowa, 50. Chief training devices br, skill components res. lab, U.S. Air Force Personnel & Training Res. Center, 50-55; vis. lectr, PSYCHOL, TULANE, 55-56, assoc. prof, 56-60, PROF, 60- Vis. prof, Washington (Seattle), 65-66. AAAS; Psychol. Asn; Psychonomic Soc; Human Factors Soc. Experimental psychology; learning; motor skills. Publ: Co-auth, Free association norms, U.S. Govt. Printing, 65; ed, Acquisition of skill, Academic, 66; co-auth, Motor-skills learning, Annual Rev. Psychol, 12:243-280. Address: Dept. of Psychology, Tulane University, New Orleans, La. 70118.

BILODEAU, PROF. INA McD(ONALD), b. Worcester, Mass, Jan. 27, 25; m. 48; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Clark, 46; M.Sc, Brown, 49; Ph.D.(psychol), Iowa, 50. Res. psychologist, U.S. Air Force Personnel & Training Res. Center, Tex, 50-55; psychologist, urban life res. inst, TULANE, 57, asst. prof. PSYCHOL, 58-62, assoc. prof, 62-65, PROF, 65- Psychol. Asn. Human learning. Publ: Information feedback, In: Acquisition of skill, Academic, 66; co-auth, Variation of temporal intervals among critical events in five studies of knowledge of results, J. Exp. Psychol; Motor skills learning, Ann. Rev. Psychol. Address: Dept. of Psychology, Tulane University, New Orleans, La. 70118.

BILSKY, PROF. MANUEL, Philos, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

BINDER, PROF. ARNOLD, Statist, Math. Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BINDER, PROF. LEONARD, b. Boston, Mass, Aug. 20, 27; m. 47; c. 2. POLITICAL SCIENCE. B.A, Harvard, 52, Ford fel. & Ph.D.(polit. sci), 66; Woodrow Wilson fel, Princeton, 52-53; Ford Found. fel, Oxford, 53-54. Ford res. fel, Pakistan, 54-55; instr. POLIT. SCI, California, Los Angeles, 56-58, asst. prof, 58-61; assoc. prof, CHICAGO, 61-65, PROF, 65- Soc. Sci. Res. Coun. fel, 58-59; Rockefeller Found. fel, 60-61; fel, Center Adv. Study Behav. Sci, 67-68. Consult, Inst. Pub. Admin, N.Y, 59-60. Mem, Faculty Adv. Cmt. Human Rights Res, 61. U.S.A, 45-46. Polit. Sci. Asn; Mid. East Studies Asn; fel. Mid. East Inst. Comparative politics; political change in underdeveloped areas; Islamic political theory; international relations in the Middle East. Publ: Iran: political development in a changing society; The ideological revolution in the Middle East; Politics in Lebanon. Address: Dept. of Political Science, University of Chicago, Chicago, Ill. 60637.

BINDLEY, PROF. J(OE) H(OOVER), b. Marion, Ohio, Aug. 15, 22. POLITICAL SCIENCE. B.A, Col. Wooster, 47; M.A, California, Los Angeles, 50; Ph.D, Pittsburgh, 58. Price aide, Off. Price Admin, 45-46; instr. polit. sci, Col. Wooster, 50-53, lectr. & chmn. dept, 53-57, dir, Falk Found. Prog. Polit, 54-57; assoc. dir. polit. ed, Citizenship Clearing House, Univ. Pittsburgh, 57-58; asst. prof. polit. sci. & dir. Falk Found. Prog. Polit, Knox Col.(Ill), 58-66, dir. Ford Found. Res. Pub. Affairs, 59-66; assoc. prof. polit, Missouri, St. Louis, 66-68; PROF. POLIT. SCI. & CHMN. DEPT, WITTENBERG, 68- Consult, 59-60. Mem, Knox County Bd. Supvr, Ill, 62-66, chmn. res. cmt, 63-66. U.S.A, 42-45, Res, 45-50, Sgt. Polit. Sci. Asn; Acad. Polit. Sci. Political parties and behavior; state and local government. Publ: Five factors in politics; Pressure groups and politics in Illinois. Address: Dept. of Political Science, Wittenberg University, Springfield, Ohio 45501.

BINDMAN, DR. AARON M, b. Brooklyn, N.Y, Aug. 29, 16; m. 47; c. 2. SOCIOLOGY. B.A, Illinois, 60, M.A, 61, Ph.D.(sociol), 65. Teaching asst. SOCIOL, Illinois, 60-64; asst. prof, Saskatchewan, 64-66; ASSOC. PROF, WITTENBERG, 66-, DIR, UPWARD BOUND PROG, 66- U.S.A, 42-46. Sociol. Asn. Alienation of youth from school; special college programs for deprived disadvantaged students; trade unions and occupational training programs under different economic systems. Publ: Interviewing in search of truth, Sociol. Quart, summer 65; The drop-out, Arbos, 5-6/66; Pre-college education of Negro college students, J. Negro Ed, fall 66. Address: Dept. of Sociology, Wittenberg University, Springfield, Ohio 45501.

BINDMAN, DR. ARTHUR J(OSEPH), b. New York, N.Y, Dec. 11, 25; m. 50; c. 3. CLINICAL PSYCHOLOGY. A.B, Harvard, 48, M.P.H, 57; M.A, Boston, 49, Ph.D.(clin. psychol), 55. Trainee clin. psychol, Vet. Admin, 49-52; psychologist, Lowell Child Guid. Clin, 52-53; chief ment. health consult, MASS. DEPT. MENT. HEALTH, 53-56, consult. psychologist, 56-57, supvr. community ment. retardation centers, 57-58, chief ment. health coordinator, 58-64, dir. psychol. serv, 64-67, ASST. TO CMNR. MENT. HEALTH, 67- Lectr, Northeastern, 57-59; asst. prof. ed, Boston, 60-64. Consult, Marlboro Sch. Dept, 56-59. Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. U.S.N, 44-46. Fel. Psychol. Asn; Pub. Health Asn; fel. Orthopsychiat. Asn; Nat. Coun. Family Rels. Community mental health practice; brain damage and mental retardation; mental health consultation techniques in school and industry; family therapy. Publ: Co-auth, Administrative problems in establishing a community mental health prog, Am. J. Orthopsychiat; auth, Mental health consultation; theory and practice, J. Consult. Psychol; Problems associated with community mental health programs, Community Ment. Health J, 66. Address: 25 Crestview Rd, Belmont, Mass. 02178.

BINDMAN, DR. STEPHEN STEWART, b. New York, N.Y, Dec. 3, 32; m. 63; c. 1. PSYCHOLOGY. B.A, California, Los Angeles, 58, U.S. Pub. Health Serv. fel, 62-63, Ph.D, 66, fel. U.S. Pub. Health Serv, Los Angeles Psychiat. Serv, 63-64. Asst. psychol, Calif. State Col. Los Angeles, 63-64, instr, 64-65; clin. psychologist, sch. med, Southern California, 64-66; ASST. PROF. PSYCHOL, TEXAS, AUSTIN, 66- Etiology of schizophrenia; experimental investigations of depression. Address: Dept. of Psychology, University of Texas, Austin, Tex. 78712.

BINDRA, PROF. DALBIR, b. Rawalpindi, Pakistan, June 11, 22. PSYCHOLOGY. B.A, Punjab, Pakistan, 41, M.A, 43; M.A, Harvard, 48, Ph.D.(psychol),

48. Asst. prof. PSYCHOL, American Univ, 47-49; McGILL, 49-53, assoc. prof, 53-62, PROF, 62- Chmn. assoc. cmt. exp. psychol, Nat. Res. Coun, Can, 62- Fel. AAAS; fel. Psychol. Asn; Can. Psychol. Asn.(secy-treas, 52-54, pres, 58-59). Emotion; motivation; experimental psychopathology; learning; neuropsychology; decision processes. Publ: Motivation, a systematic reinterpretation; Experimental psychology and the problem of behavior disorders, Can. J. Psychol; Neuropsychological interpretation of the effects of drive and incentive-motivation on general activity and instrumental behavior, Psychol. Rev. Address: Dept. of Psychology, McGill University, Montreal 2, Que, Can.

BINFORD, DR. LEWIS R, b. Norfolk, Va, Nov. 21, 30; m. 52; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. B.A, North Carolina, 57; M.A, Michigan, 58, Ph.D.(anthrop), 64. Res. assoc. archaeol, mus. anthrop, Michigan, 58-59, curator, 60-61; asst. prof. ANTHROP, Chicago, 61-65; California, Santa Barbara, 65-66; ASSOC. PROF, CALIFORNIA, LOS ANGELES, 66- Consult, State of Mich, 59. U.S.A, 51-54. AAAS; fel. Soc. Am. Archaeol; fel. Anthrop. Asn. Study of evolutionary processes through the use of archaeological data; archaeological theory and method. Publ: Co-auth, New perspectives in archaeology, Aldine, 68; auth, Archaeology as anthropology, Am. Antiquity, 62; A preliminary analysis of functional variability in the Mousterian of Levallois Facies, Am. Anthrop, 4/66. Address: Dept. of Anthropology, University of California, Los Angeles, Calif. 90024.

BINFORD, DR. SALLY R, b. New York, N.Y, Feb. 21, 24; m. 63; c. 1. ANTHROPOLOGY. B.A, Chicago, 47 & 56, M.A, 59, Ph.D.(anthrop), 62. Nat. Sci. Found. fel, 62-63; lectr. ANTHROP, Northwestern, 64-65; California, Santa Barbara, 65-66, Los Angeles, 66-68; ASSOC. PROF, NEW MEXICO, 68- Wenner-Gren Found. Anthrop. Res. grant, France, 66-67. Human ecology during the Pleistocene, especially the early Upper Pleistocene, relating to the biological and cultural evolution of early Homo sapiens populations. Publ: Co-ed, New perspectives in archaeology, & auth, Variation and change in the Near Eastern Mousterian, In: New perspectives in archaeology, Aldine, 68; co-auth, A preliminary analysis of functional variability in the Mousterian of Levallois facies, Am. Anthropologist, 66. Address: Dept. of Anthropology, University of New Mexico, Albuquerque, N.Mex. 87106.

BING, DR. ELIZABETH S, b. Karlsruhe, Germany, Mar. 2, 13; nat; m. 41. PSYCHOLOGY. Ph.D.(polit. sci), Geneva, 38; M.A, N.Y. Univ, 48; Ph.D, Stanford, 62. Instr. PSYCHOL, STANFORD, 50-63, CLIN. ASST. PROF, 63-, CHILD PSYCHOLOGIST, 50- Psychol. Asn. Deviations in child development; learning problems. Address: 1 Stetson Ave, Mill Valley, Calif. 94941.

BING, DR. RALPH A(DOLF), b. Munich, Germany, June 16, 07; nat; m. 41. ECONOMICS. Ju.D, Erlangen, 31; M.S, Columbia, 43. Security analyst, Brooklyn Trust Co, N.Y, 44; financial analyst, Fitch Investors Serv, 45-49; mgr. res. dept, Sutro & Co, 49-57; head invest. dept, N.Am. Securities Co, 57-59; sr. analyst, Dean Witter & Co, 59-66; FINANCIAL CONSULT, F.S. SMITHERS & CO, NEW YORK, 66- Econ. Asn. Business cycle theory; corporate finance and security markets. Publ: Petroleum in Canada's balance of international payments, South. Econ. J; Eastern hemisphere oil, Barrons, Stocks a hedge against inflation, Commercial & Financial Chronicle, 5/67. Address: 1 Stetson Ave, Mill Valley, Calif. 94941.

BINGHAM, PROF. DAVID ANDREW, SR, b. Filbert, W.Va, Sept. 8, 26; m. 51; c. 4. POLITICAL SCIENCE. B.A, Concord Col, 53; M.A, Iowa, 55, Ph.D, 57. Instr. polit. sci, Arizona State, 57-58, asst. prof, 58-59; res. assoc, bur. bus. & pub. res, ARIZONA, 59-64, assoc. prof. pub. admin, 60-63, GOVT, 63-65, PROF, 65-, ASSOC. DIR. INST. GOVT. RES, 64- Res. consult, cmt. state legis. reapportionment, Ariz. Joint Senate-House Legis, 65; Coun. Orgn. Ariz. State Govt, 67. U.S.A.A.F, 43-48, Sgt. AAAS; Polit. Sci. Asn; Soc. Pub. Admin. Administration of public policy in American national, state, and local governments and institutions, especially in metropolitan and urban areas. Publ: Co-auth, Land Use transfer and ownership in Arizona, Ariz. Acad, 65 & Government in Arizona's metropolitan areas; Constitutional municipal home rule in Arizona. Address: Institute of Government Research, University of Arizona, Tucson, Ariz. 85721.

BINGHAM, DEAN EDGAR, b. Boone, N.C, June 23, 21; m. 45; c. 1. GEOGRAPHY. B.A. & M.S, Tennessee, 48; Ph.D.(geog), Ohio State, 54. Asst. prof. GEOG, EMORY & HENRY COL, 53-54, assoc. prof, 54-61, PROF. & DEAN ADMISSIONS, 61-, registr, 54-65, asst. dean, 62-65. Nat. Sci. Found. summer faculty fel, Univ. New Mexico, 66. Consult, U.S Army Natick Labs, Mass, 67- U.S.N, 42-46. Asn. Am. Geog. Economic, agricultural and mountain geography; physical geography of Southeast Asia. Publ: Physiographic diagram of North Carolina. Address: Dept. of Geography, Emory & Henry College, Emory, Va. 24327.

BINGHAM, DR. HAROLD C(LYDE), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

BINGHAM, DR. JOSEPH LEO, b. Danville, Ill, Oct. 14, 23; m. 48; c. 5. CLINICAL & INDUSTRIAL PSYCHOLOGY. A.B, Indiana, 50; Ph.D, Mich. State, 56. Intern, Logansport State Hosp, 50-51; instr, Mich. State, 52-53; dir, Psychol. Res. Servs, Inc, 53-55; consult, Rohrer, Hibler & Replogle, 55-60; DIR, JOSEPH L. BINGHAM & ASSOCS, 60- U.S.N, 40-46. Psychol. Asn. Executive development; manpower planning and training; organizational effectiveness and climate; selection. Address: 509 Madison Ave, New York, N.Y. 10022.

BINGHAM, PROF. ROBERT CHARLES, b. Kenosha, Wis, Apr. 12, 27; m. 57; c. 2. ECONOMICS. B.A, DePauw, 50; M.A, Northwestern, 54, Ph.D.(econ), 62. Instr. ECON, Nebraska, 54-57, asst. prof, 57-62; KENT STATE, 62-64, assoc. prof, 64-67, PROF, 67- U.S.A, 45-47. Econ. Asn. Microeconomic theory; industrial organization and public policy; theory of innovation. Publ: Study guide to accompany, Economics, 60, 63, 66, co-auth, Economic issues: readings and cases, 63 & auth, Economic concepts: a programmed approach, 66, McGraw. Address: Dept. of Economics, Kent State University, Kent, Ohio 44240.

BINGHAM, DR. WILLIAM C, b. Paterson, N.J, Sept. 16, 23; m. 53; c. 2. COUNSELING PSYCHOLOGY. A.B, Montclair State Col, 50, A.M, 53; Grant Found. fel, Columbia, 61-62, Ed.D.(counseling psychol), 66. Teacher, pub. schs, N.J, 51-55; counsr. guid, high sch, N.J, 55-61; trainee counseling psychol, Vet. Admin. Hosp, East Orange, N.J, 62-63; lectr. COUNSR. ED, RUTGERS, 63-66, ASSOC. PROF, 66- Instr, N.J. Sch. Conservation, 54. Consult, Kilmer Job Corps Center, 64-66; Fed. Elec. Corp, 65-; Rahway Pub. Schs, N.J, 65-; Neighborhood Youth Corps, 66-67; N.J. State Dept. Ed, 66-67; U.S. Envelope Corp, 67. U.S.M.C, 42-45, T/Sgt. AAAS; Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. Vocational development; self concept formation; supervision of counseling; counseling low income youth. Publ: Test review in 6th mental measurements yearbook, Gryphon Press, 65; Counseling services for unemployed youth, Center Study Unemployed Youth, 67; co-auth, Raven's progressive matrices: construct validity, J. Psychol, 66. Address: 70 Frost Ave, East Brunswick, N.J. 08816.

BINKLEY, HOWARD L(EE), b. Knoxville, Tenn, Nov. 21, 24; m. 44; c. 5. ECONOMICS. B.S, Delaware, 48; M.A, Pennsylvania, 50; London Sch. Econ, 53; Lisle fel, 56-58; Case Inst. fel, 58; Lilly fel, 59; Danforth fel, 60. Assoc. prof. econ, Hanover Col, 50-60; dir. res. & studies, PHARMACEUT. MFRS. ASSOC, 60-67, V.PRES. ADMIN, PLANNING & ECON. RES, 67- Ed. dir, Coun. on Student Travel, 52-53; dir. student Peace Corps prog, Comite de los Amigos de Mexico, 53-54; prof. lectr, Maryland, 61- Mem. bd. advs, Nat. Health Surv, U.S. Dept. Health, Ed. & Welfare, 63- U.S.A, 42-45, Lt. Am. Econ. Asn; Mkt. Asn; Soc. Adv. Mgt; Econ. Hist. Asn; fel. Royal Econ. Soc. International and domestic economic development and education; medical care economics; international economic development; theory of marketing. Publ: Public finance; Business law; Principles of marketing. Address: 3207 N. 19th St, Arlington, Va. 22201.

BINKLEY, DR. OLIN T(RIVETTE), b. Aug. 4, 08; m. 33; c. 2. SOCIOLOGY. B.A, Wake Forest Col, 28, D.D, 51; Th.B, South. Baptist Theol. Sem, 30; B.D, Yale Divinity Sch, 31; Ph.D.(relig, ed), Yale, 33. Assoc. pastor, Calvary Baptist Church, Conn, 31-33; pastor, Chapel Hill Baptist Church, N.C, 33-38; lectr. sociol, North Carolina, 37-38; head dept. relig, Wake Forest Col, 38-44; PROF. CHRISTIAN SOCIOL. & ETHICS, South. Baptist Theol. Sem, Louisville, Ky, 44-52; SOUTHEAST. BAPTIST THEOL. SEM, 52-, PRES, 63-, dean faculty, 58-63. Vis. fel, Yale, 51. Trustee, Ministry Studies Bd. in U.S. Acad. Polit. & Soc. Sci; fel. Sociol. Asn; Asn. Marriage Counsr. Sociology of religion; ethical theory; family sociology. Publ: The churches and the social conscience; Frontiers for Christian youth; The minister's moral task. Address: Box 311, Wake Forest, N.C. 27587.

BINKLEY, PROF. W(ILFRED) E(LLSWORTH), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

BIRBECK, PROF. HERBERT E(VANS), b. King City, Mo, Feb. 25, 29; m. 57; c. 3. EDUCATIONAL PSYCHOLOGY, SPECIAL EDUCATION. A.B, Tarkio Col, 50; M.A, Missouri, 54; Ph.D.(ed. psychol, spec. ed), Iowa, 60. Teacher, high sch, Mo, 50-51, dir. speech correction, pub. schs, 54-58; asst. prof. ed. psychol, Idaho State, 60-61; assoc. prof, MANKATO STATE COL, 61-65, PROF. ED. PSYCHOL. & SPEC. ED. & CHMN. DEPT. SPEC. ED, 65- U.S.A, 51-53. Speech & Hearing Asn; Psychol. Asn; Asn. Ment. Deficiency; Coun. Except. Children. Study of parents of children with cerebral palsy and day activity centers for young retarded children. Address: Dept. of Special Education, Mankato State College, Mankato, Minn. 56001.

BIRCH, PROF. DAVID, b. Cedar Rapids, Iowa, Oct. 20, 25; m. 50; c. 2. PSYCHOLOGY. B.S, Iowa State Col, 48; M.A, Iowa, 50, Ph.D.(psychol), 52. Instr. PSYCHOL, MICHIGAN, 52-55, asst. prof, 55-59, assoc. prof, 59-63, PROF, 63-, CO-MGR. LANG. DEVELOP. CENTER, 64- U.S.N, 44-46. Experimental psychology; mathematical models in psychology. Publ: Discrimination learning as a function of the ratio of nonreinforced to reinforced trails, J. Comp. & Physiol. Psychol; Motivational interpretation of extinction, Nebr. Symp. Motivation; co-auth, Necessary conditions for cue-position patterning, J. Exp. Psychol. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

BIRCH, PROF. HERBERT G, b. New York, N.Y, Apr. 21, 18; m. 45; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 39, Ph.D, 45, M.D, 60. Res. assoc. psychobiol, Yerkes Labs. Primate Biol, 44-46; instr. psychol, N.Y. Univ, 46-47; asst. prof, City Col, 47-51, assoc. prof, 51-55; res. assoc, Bellevue Med. Center, N.Y. Univ, 55-57, assoc. clin. prof, med. col, 54; assoc. res. prof. PEDIAT, ALBERT EINSTEIN COL. MED, 60-64, RES. PROF, 64- Guggenheim Mem. Found. fel, 52-53; chief psychologist, div. pediat. psychiat, Jewish Hosp, Brooklyn, N.Y, 53-54; lectr, psychoanalytic training sch, Columbia, 56-59. Consult, State Ment. Health Cmn, N.Y, 51-54. AAAS; Psychol. Asn. Comparative, experimental, social psychology and child development. Publ: Co-auth, Behavioral individuality in early childhood, N.Y. Univ, 63; ed, Brain damage in children: biological and social aspects, Williams & Wilkins, 64; co-auth, Temperament and behavior disorders in children, N.Y. Univ, 68. Address: Albert Einstein College of Medicine, Eastchester Rd. & Morris Park Ave, New York, N.Y. 10461.

BIRCH, DR. HERMAN, b. Chicago, Ill, Jan. 8, 33; m. 67. PSYCHOLOGY. B.A, Roosevelt, 55; Ph.D.(psychol), State Univ. N.Y. Buffalo, 64. Asst. prof. psychol, Western Michigan, 61-63; Portland, 63-67; RES. SCHOLAR PSYCHOBIOL, CALIFORNIA, IRVINE, 67- AAAS; Psychol. Asn. Physiological substrates of behavior. Address: Post Doctoral Scholar, University of California, Irvine, Calif. 92664.

BIRCH, PROF. JACK W(ILLARD), b. Glassport, Pa, Nov, 27, 15; m. 40; c. 2. PSYCHOLOGY. B.S, California State Col.(Pa), 37; M.Ed, Pa. State, 41; Ph.D.(psychol), Pittsburgh, 51. Teacher elem. & sec. schs, Pa, 37-41; psychologist & supvr. spec. ed, county schs, 41-48; dir. spec. ed. & ed. clin, bd. ed, 48-58; PROF. ED, PITTSBURGH, 58-, ASSOC. DEAN SCH. ED, 64-, chmn. spec. ed. & rehab, 58-64. Psychol. consult, State Bur. Voc. Rehab, Pa, 41-48; dir. res. proj, Am. Inst. Res, Japan & Korea, 52; v.chmn, Gov. Cmt. Handicapped Children. UN Medal, 52; award, 55. U.S.A, 43-46. Psychol. Asn; Asn. Ment. Deficiency; Speech & Hearing Asn; Rehab. Asn; Coun. Except. Children (pres, 60-61). Publ: Co-auth, Correcting and preventing

defective speech; Special classes and schools for maladjusted children, Except. Children; Slow learner in the junior high school, Nat. Ed. Asn. J. Address: School of Education, University of Pittsburgh, Pittsburgh, Pa. 15213.

BIRCH, PROF. J(ACK) W(ILLIAM), Geog, see 10th ed, Soc. & Behav. Vols. Latest known address: Dept. of Geography, University of London, London, Eng.

BIRCHARD, DR. RALPH E(DWIN), b. Oelwein, Iowa, Apr. 17, 14; m. 40; c. 4. GEOGRAPHY. B.A, Iowa State Teachers Col, 37; M.S, Illinois, 38; Ph.D, Iowa, 54. Teacher, high sch, Iowa, 39-42; instr. GEOG, S.Dak. State Col, 45-46; from instr. to ASSOC. PROF, OKLA. STATE, 46- Vis. prof, dept. geog, Haile Sellassie, 67. U.S.A, 42-45. Asn. Am. Geog. Midwest and southwest United States; Europe; urban geography. Publ: Copper in the Katanga region of the Belgian Congo & Europe's critical food situation, Econ. Geog. Address: Dept. of Geography, Oklahoma State University, Stillwater, Okla. 74075.

BIRD, DR. ALAN R(OSS), b. Brisbane, Australia, July 20, 26; m. 58; c. 3. ECONOMIC DEVELOPMENT. B.Agr.Sc, Queensland, Australia, 49 & 52; scholar, Univ. Nottingham, Eng, 55-56, M.Sc, 57; Ph.D.(agr. econ), Mich. State, 60. Res. officer agr. econ, Univ. Queensland, 49-52; asst. agr. economist, Univ. Bristol, Eng, 53-54; asst. agr. econ, Mich. State, 57-58, instr, 59-60, asst. prof, 60-61; assoc. prof. agr. & food econ, Massachusetts, 61-63; leader rural renewal & develop, ECON. RES. SERV, U.S. DEPT. AGR, 63-65, regional progs, 65-66, DEP. DIR, ECON. DEVELOP. DIV, 67-; regional economist, Econ. Develop. Admin, U.S. Dept. Commerce, 66-67. Econ. Asn; Agr. Econ. Asn; Int. Asn. Agr. Econ. National and regional economic development; poverty analyses; rural affairs; program analysis and evaluation. Publ: Surplus: riddle of American agriculture; Poverty in rural areas of the United States, 64 & co-auth, White Americans in rural poverty, 67, Econ. Res. Serv, U.S. Dept. Agr. Address: Economic Development Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

BIRD, DR. DOROTHY ANDREW, b. Minneapolis, Minn, Nov. 11, 09; m. 44. PSYCHOLOGY. B.A, Minnesota, 30, M.A, 31, Ph.D, 35. Asst. PSYCHOL, employ. stabilization res. inst, Minnesota, 31-33, dept. psychol, 33-35; instr, Chatham Col, 35-37, asst. prof, 37-43; lectr, MINNESOTA, MINNEAPOLIS, 46-49, instr, cor. study dept, 58-67, PROF, DEPT. INDEPENDENT STUDY, 68- Psychol. Asn. Construction of aptitude and achievement tests. Publ: Co-auth, Learning more by effective study; Minnesota clerical test; Measured characteristics of clerical workers. Address: 5836 Knox Ave. S, Minneapolis, Minn. 55419.

BIRD, DEAN FRANCIS H(ENRY), b. Swampscott, Mass, Dec. 23, 87. ECONOMICS. A.B, Dartmouth Col, 09, A.M, 10; fel, Wisconsin, 10-11, Ph.D, 17; fel, California, 12-13. Instr. econ. & lectr. univ. exten, California, 13; U.S. Cmn. on Indust. Rel, 13-15; U.S. Children's Bur, 16-18; asst. dir. dept. indust. rel, United Typothetate of Am, 19-22, dir. dept. indust. info, 22-23, dept. res, 23-26; prof. commerce & head dept, CINCINNATI, 26-46, dean COL. BUS. ADMIN, 46-58, EMER. DEAN, 58- Lectr, Dartmouth Col, 19; tech. adv. printing & pub. codes, Nat. Recovery Admin, 33. Adjuster, War Labor Bd, 19; referee & panel chmn, Nat. War Labor Bd, 42-45. Ord. Dept, 18, Lt. Econ. Asn. Labor relations; employment certificate systems in Maryland; industrial possibilities in metropolitan Cincinnati. Address: 3539 Biddle St, Cincinnati, Ohio 45220.

BIRD, PROF. GEORGE L(LOYD), b. Francisco, Ind, Aug. 29, 00; wid; c. 1. JOURNALISM. B.S, Allegheny Col, 22; scholar, Univ. Wis, 22-24, B.A, 23, M.A, 24, Ph.D.(sociol), 37. Instr. jour. & Eng, Bradley, 26-29; jour, DePauw, 29-30, asst. prof, 30-33; lectr, Wisconsin, 33-36; res. sociologist, Nat. Res. Proj, 36-37; asst. prof, SYRACUSE, 37-41, chmn. grad. div, sch. jour, 40-45, assoc. prof, 41-45, PROF. JOUR, 45- Spec. consult. literacy, Laubach Literacy, Inc, 68- Readability; measurements of bias; communications. Publ: Co-ed, The newspaper and society; The press and society, Prentice-Hall; Modern article writing, Brown, 67. Address: 305 Elm St, Fayetteville, N.Y. 13066.

BIRD, PROF. J(OHN) BRIAN, Geog, See 11th ed, Suppl IV to Phys. & Biol. Vols.

BIRD, DR. JUNIUS B(OUTON), b. Rye, N.Y, Sept. 21, 07; m. 34; c. 3. ANTHROPOLOGY. Columbia; hon. D.Sc, Wesleyan, 58. Archaeologist, State Mus, Pa, 29; field asst. ARCHAEOL, AM. MUS. NATURAL HIST, 31-37, asst. curator, 37-47, assoc. curator, 47-57, CURATOR, 57- Consult, Mus. Primitive Art, N.Y, 56- Trustee, Textile Mus, Wash, D.C, 57- Viking Fund Award, 57. Soc. Archaeol.(pres, 61-62); N.Y. Acad. Sci.(cor. secy, 51-55). American archaeology, especially of South America; prehistoric fabrics. Address: American Museum of Natural History, 79th St. & Central Park W, New York, N.Y. 10024.

BIRD, DR. KERMIT MOLYNEAUX, b. Orwell, Pa, Nov. 16, 19; m. 45; c. 3. AGRICULTURAL ECONOMICS. B.S, Pa. State, 43, Ph.D, 52; M.S, Cornell, 45; Harvard, 66-67. Field man, H.J. Heinz Co, 45-48; instr. agr. econ, Pa. State, 48-50; asst. agr. economist, Hawaii, 52; Idaho, 53-59; assoc. agr. economist, Okla. State, 59-61; AGR. ECONOMIST, U.S. DEPT. AGR, 61- Lectr, Int. Sch. Freeze-Drying, Lyon, France, summer 64. Mem. bd. dirs, Res. & Develop. Assocs, 65- Agr. Econ. Asn; Inst. Food Tech; Mkt. Asn; Soc. Adv. Food Serv. Res; Soc. Heat, Refrig. & Air-Conditioning Eng. Economics of food dehydration and food processing. Publ: Co-auth, Agricultural markets in change, 65 & Protecting our food, In: 1966 Yearbook of Agriculture, 66, U.S. Dept. Agr; co-auth, U.S. food and fiber system in a changing world environment, U.S. Food & Fiber Cmn, 67. Address: Economic Research Service, Marketing Economics Division, U.S. Dept. of Agriculture, Washington, D.C. 20250.

BIRD, DR. RICHARD M(ILLER), b. Fredericton, N.B, Aug. 22, 38; m. 58; c. 3. ECONOMICS. B.A, Dalhousie, 58; Woodrow Wilson fel, Columbia, 58-59, M.A, 59, faculty scholar. & econ. res. center fel, 59-60; Ph.D, 61; Can. Coun. fel, London, 60-61. Instr. econ, univ. & mem. staff int. prog. taxation, law sch, Harvard, 61-63; sr. res. assoc. econ, Columbia, 63-64; adv. tax & fiscal policy, develop. adv. serv, Bogota, Colombia, Harvard, 64-66, lectr. econ, res. fel, center int. affairs & economist, int. tax prog, law sch, 66-68; ASSOC. PROF. ECON, TORONTO, 68- Vis. prof, Univ. of the Andes, Colombia, 65. Res. officer & consult, Royal Cmn. Taxation, Can, 63-65. Mem, Can. Tax Found. R.C.N.R, 55-58, Sub-Lt. Am. Econ. Asn; Can. Econ. Asn; Royal Econ. Soc. Public finance; taxation; economic development and financial problems. Publ: Co-auth, Readings on taxation in developing countries, Johns Hopkins, 64, rev. ed, 67 & Financing urban development in Mexico City, Harvard, 67; auth, Bibliography on taxation in developing countries, In: Bibliography on taxation in developing countries, Harvard Law Sch, 67. Address: Institute for Policy Analysis, University of Toronto, Toronto 5, Ont, Can.

BIRD, DR. RONALD, b. Paris, Idaho, Feb. 25, 21; m. 47; c. 1. AGRICULTURAL ECONOMICS. B.S, Idaho, 43, M.S, 47; Ph.D, Missouri, 62. Agriculturalist, U.S. Dept. Interior, 46; Univ. Idaho, 47; statistician & economist, State Tax Cmn, 47-49; agent agr. econ, West Virginia & U.S. Dept. Agr, 49-50; agr. economist, West Virginia, 50-51; U.S. DEPT. AGR, 51-65, SUPVRY. AGR. ECONOMIST, 65-, cert. merit, 62. Mem, State Exec. Cmt. Rural Area Develop, Mo, 62-65; co-chmn. task force organizing res. efforts soc. overhead probs, econ. res. serv, U.S. Dept. Agr, 65. U.S.N, 42-46, Lt.(jg). Farm Econ. Asn. Problems of local governments, including their tax and expenditure behavior, problems associated with housing, credit and other community facilities and their impact on human resource development. Publ: Co-auth, Contribution of tourist trade to incomes of people in Missouri Ozarks, 62 & auth, Contribution of the timber industry to the economy of the Missouri Ozarks, 65, Univ. Missouri; co-auth, Income opportunities for rural families from outdoor recreational enterprises, U.S. Dept. Agr, 65. Address: Community Facilities Branch, Economic Development Division, U.S. Dept. of Agriculture, Washington, D.C. 20250.

BIRDSELL, PROF. JOSEPH B(ENJAMIN), b. South Bend, Ind, Mar. 20, 08; m. 44. PHYSICAL ANTHROPOLOGY. B.S, Mass. Inst. Tech, 31; Ph.D. (phys. anthrop), Harvard, 41. Instr. ANTHROP, State Col. Wash, 41-43; from asst. prof. to PROF, CALIFORNIA, LOS ANGELES, 47-, Guggenheim fel, 52. Guggenheim fel, Harvard, 47; Fulbright scholar, Australia, 53. Co-leader. Harvard-Adelaide Exped, Australia, 38-39, E.C. Australian fieldwork, 54. U.S.A.A.F, 43-46. Anthrop. Asn; Soc. Am. Archaeol; Soc. Human Genetics; Soc. Study Evolution; Asn. Phys. Anthrop. Human population genetics; early man; trihybrid origin of the Australian aborigines. Address: Dept. of Anthropology, University of California, Los Angeles, Calif. 90024.

BIRDWHISTELL, PROF. RAY LEE, b. Cincinnati, Ohio, Sept. 29, 18; m. 41; c. 2. SOCIAL ANTHROPOLOGY. A.B, Miami (Ohio), 40; M.A, Ohio State, 41; Ph.D, Chicago, 51. Res. assoc, Chicago, 42-44; lectr. anthrop, Toronto, 44-46; instr, Louisville, 46-49, asst. prof, 49-53, assoc. prof, 54-56, dir. Hill study, 49-51, coordinator, interdisciplinary cmt. culture & commun, 53-56; assoc. prof. anthrop, Buffalo, 56-59; PROF. RES. ANTHROP, TEMPLE, 59-; SR. RES. SCIENTIST, EAST. PA. PSYCHIAT. INST, 59- Consult, for. serv. inst, U.S. Dept. State, 52; Center Adv. Study Behav. Sci, 56. Fel. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop; Acad. Polit. & Soc. Sci. Kutenai social structure; adolescent cliques; kinesics and communication. Publ: Introduction to kinesics. Address: Eastern Pennsylvania Psychiatric Institute, Philadelphia, Pa. 19129.

BIRENBAUM, DR. ARNOLD, b. New York, N.Y, Sept. 19, 39; m. 64; c. 1. SOCIOLOGY. B.A, City Col. New York, 60; Ph.D.(sociol), Columbia, 68. Res. assoc. SOCIOL, Center New York City Affairs, 66-67; ASST. PROF, CITY COL. NEW YORK, 67- Consult, Asn. Help Retarded Children, 64-66. Sociol. Asn; Soc. Study Social Probs. Political sociology; deviance; sociology of religion; general theory. Publ: Medical attitudes towards retardation, Proc. Brooklyn Med. Conf. Ment. Retardation, 66; co-auth, Recreation for the mentally retarded, Selected Acad. Readings, 66. Address: Dept. of Sociology, Wagner Hall, City College of New York, New York, N.Y. 10031.

BIRGE, PROF. KINGSLEY H(ARLOW), b. Worcester, Mass, Feb. 6, 16. SOCIOLOGY. A.B, Dartmouth Col, 38; Ph.D, Yale, 45. Instr. SOCIOL, COLBY COL, 46-50, from asst. prof. to assoc. prof, 50-64, PROF, 64- Sociol. Asn; Anthrop. Asn; Acad. Polit. & Soc. Sci. Address: Dept. of Sociology, Colby College, Waterville, Maine 04901.

BIRKBY, DR. ROBERT H, b. Lamar, Colo, Oct. 29, 30. POLITICAL SCIENCE. B.S, Colorado, 52, M.A, 60; M.A, Princeton, 62, Ph.D.(polit), 63. Asst. prof. Polit. Sci, VANDERBILT, 63-66, ASSOC. PROF. POLIT. SCI. & ASSOC. DEAN COL. ARTS & SCI, 67- Polit. Sci. Asn; Law & Society Asn. Public law; judicial behavior and administration. Publ: Co-auth, Interest group conflict in the judicial arena, Tex. Law Rev, 64; auth, The origins of the supremacy clause, West. Polit. Quart, 65; The Supreme Court in the Bible Belt, Midwest J. Polit. Sci, 66. Address: Dept. of Political Science, Vanderbilt University, Nashville, Tenn. 37203.

BIRKENHEAD, DR. THOMAS BRUCE, b. Brooklyn, N.Y, Dec. 19, 31; m. 54; c. 4. ECONOMICS. B.A, Brooklyn Col, 54, M.A, 58; Ph.D.(econ), New Sch. Soc. Res, 63. Lectr. ECON, BROOKLYN COL, 57-60, instr, 60-63, ASST. PROF, 63- Study grant, 63. Econ. Asn. Economics of the performing arts. Publ: The effect of economic sanctions on the Union of South Africa, Am. Cmt. Africa, 60; co-auth, Musical stock employees: their backgrounds, their union and management, Brooklyn Col, 64; auth, Tickets, attendance and capacity of the theatre industry, J, U.S. Inst. Theatre Tech, 66. Address: Dept. of Economics, Brooklyn College, Bedford Ave. & Ave. H, Brooklyn, N.Y. 11210.

BIRKHEAD, PROF. GUTHRIE S(WEENEY), JR, b. Holden, Mo, Oct. 28, 20; m. 52; c. 3. POLITICAL SCIENCE. A.B, Missouri, 42, M.A, 47; A.M, Princeton, 49, Ph.D, 51. Instr. POLIT. SCI, MAXWELL SCH, SYRACUSE, 50-51, asst. prof, 51-56, assoc. prof, 56-60, PROF, 60-, CHMN. DEPT, 59- Nat. Munic. league fel, N.Y, 52-53; dir. res, UN Inst. Pub. Admin. Turkey & Middle East, 55-56. Consult, State Dept. Audit & Control, N.Y, 56-57; Resources for Future, 61; subcmt. intergovt. rels, cmt. govt. opers, U.S. House

Reps, 61; Ford Found, Pakistan, 67-68. Mem. Southeast Asia Develop. Adv. Group, U.S. Agency Int. Develop, 66-; exec. dir. cmt. local govt, N.Y. Constitutional Convention, 67. U.S.A, 42-46, Capt. Polit. Sci. Asn; Soc. Pub. Admin. Policy-making and administration in federal systems of government; metropolitan areas and natural resources policy and organization. Publ: Co-auth. & ed,Administrative problems in Pakistan, Syracuse Univ, 66; co-auth, River Basin administration and the Delaware & Decisions in Syracuse. Address: 220 Lockwood Rd, Syracuse, N.Y. 13214.

BIRKIMER, DR. JOHN C(HARLES), b. New Lexington, Ohio, Mar. 18, 40; m. 62; c. 2. PSYCHOLOGY. B.A, Ohio State, 62, Nat. Sci. Found. fel, 62-63, univ. fel, 63-64, M.A, 64, Nat. Insts. Health fel, 64-66, Ph.D.(conditioning), 66. ASST. PROF. PSYCHOL, LOUISVILLE, 66- U.S. Pub. Health Serv. res. grant, 67-70. Instrumental and operant conditioning, especially stimulus control aspects of these. Publ: Co-auth, Stimulus intensity dynamism and generalization of inhibition in a discriminated lever press avoidance situation 67 & Response-contingent and non-contingent informative and redundant secondary reinforcers, 67, Psychonomic Sci. Address: Dept. of Psychology, University of Louisville, Louisville, Ky. 40208.

BIRMINGHAM, SISTER DIGNA, O.S.B, b. Sioux City, Iowa, Apr. 7, 94. PSYCHOLOGY. B.A, Minnesota, 27, Ph.D, 43; M.A, Catholic Univ, 31; Columbia, 39-41; Northwestern, 32; Michigan, 38, 58. PROF. PSYCHOL, COL. ST. SCHOLASTICA, 40- Res. fel, Michigan, 59. Mem. scholar. awards cmt, Am. Asn. Univ. Women, 59- Psychol. Asn. Behavior in its relationship to training; religious psychology; teaching-learning situations. Publ: The first fifteen years; co-ed, A second look. Address: Dept. of Psychology, St. Scholastica Priory, Duluth, Minn. 55811.

BIRNBACH, DR. MARTIN, b. New York, N.Y, Feb. 14, 29. POLITICAL SCIENCE. B.A, N.Y. Univ, 50; M.Sc, London Sch. Econ, 55; Ph.D.(polit. sci), Rutgers, 59. Asst. POLIT. SCI, Rutgers, 56-58; vis. lectr, Puerto Rico, 58-61; instr, Nebraska, 61-62; asst. prof, SAN JOSE STATE COL, 62-65, ASSOC. PROF, 65- U.S.A, 51-52. Polit. Sci. Asn; Econ. Hist. Asn. Political philosophy and psychology; history. Publ: Neo-Freudian social philosophy. Address: Dept. of Political Science, San Jose State College, San Jose, Calif. 95114.

BIRNBAUM, DR. ABRAHAM H, b. Berlin, Germany, July 11, 22; nat; m. 52; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Brooklyn Col, 47; M.A, N.Y. Univ, 48, Ph.D.(psychol), 57. Proj. dir. & res. assoc, U.S. Army Personnel Res. Off, 48-59, task leader civilian supvr. task, 59-60, image systs. task, 60-66, PROG. DIR. IMAGE INTERPRETATION RES, U.S. ARMY BEHAV. SCI. RES. LAB, 66- Res. consult, Broadview Res. Corp, D.C, 59-60. Med. Dept, U.S.A, 42-46. Psychol. Asn; Soc. Photogram. Measurement and evaluation psychology; extraction of information from aerial photography; selection, classification and utilization of army personnel; driver research; development of performance measures; selection of civilian supervisors; information processing. Publ: Survey of psychological factors in image interpretation; Validation of potential combat arms predictors in overseas maneuvers; Selecting the first-line supervisor. Address: 13201 Collingwood Terr, Silver Spring, Md. 20904.

BIRNBAUM, PROF. ALLAN, Math. Statist, see 11th ed, Phys. & Biol. Vols.

BIRNBAUM, EUGENE A, b. Cleveland, Ohio, Sept. 29, 26; m. 45; c. 4. ECONOMICS. A.B, George Washington, 53. Economist, Int. Monetary Fund, 46-60; sr. loan officer, U.S. Develop. Loan Fund, 60-61; sr. economist, U.S. Dept. Commerce, 61-63; sr. int. economist, President's Coun. Econ. Adv, 63-64; dir. int. finance, U.S. Dept. Commerce, 64-66; SR. ECONOMIST, STANDARD OIL CO.(N.J), 66- Lectr, George Washington, 59-61. Consult, U.S. Dept. Commerce, 66- Econ. Asn; Asn. Bus. Econ. International economics and finance; money and banking. Publ: Changing the United States commitment to gold, 11/67 & Gold and the international monetary system: an orderly reform, 5/68, In: Essays in international finance, Princeton. Address: 45 Popham Rd. 4K, Scarsdale, N.Y. 10583.

BIRNBAUM, HARVEY, b. New York, N.Y, July 6, 25; m. 50; c. 2. PSYCHOLOGY. B.S, Long Island, 49; M.A, N.Y. Univ, 50. Asst. exp. psychol, Long Island, 48-49, psychol, 49-50; exam. indust. psychol, Personnel Lab, 50; exten. clin. psychol, Mt. Sinai Hosp, 50-51; staff psychologist psychol, Maimonides Hosp, 51; Brooklyn Jewish Hosp, 52; Riverside Hosp, 52-53; EXEC. DIR. PSYCHIAT. CLIN, BROOKLYN CENTER PSYCHOTHER, 53- Sr. psychologist, Riverside Hosp, 53-54; psychologist, Domestic Rel. Court, 58-Consult, State Dept. Ed. & Voc. Rehab, N.Y, 55; bur. disability determinations, State Dept. Soc. Welfare, 58; Salvation Army Foster Home Care, 65-U.S.N, 43-45. Psychol. Asn. Juvenile delinquency and behavior problems; factors of education and remedial problems, especially motivations and social cultural effects on behavior; administration in psychiatric facilities. Address: 731 E. 19th St, Brooklyn, N.Y. 11230.

BIRNBAUM, DR. ISABEL M(ARCIA), b. New York, N.Y, May 30, 37. PSYCHOLOGY. B.A, Wisconsin, 58; Ph.D.(psychol), California, Berkeley, 64. U.S. Pub. Health Serv. res. fel. exp. psychol, CALIFORNIA, Berkeley, 64-65, ASST. PROF. PSYCHOL, IRVINE, 65- U.S. Pub. Health Serv. res. grants, 65-70. Psychol. Asn; Psychonomic Soc. Animal, human and discrimination reversal learning; memory. Publ: Long-term retention of first-list associations in the AB,AC paradigm, 65 & Unlearning in two directions, 66, J. Verbal Learning & Verbal Behav; Context stimuli in verbal learning and the persistence of associative factors, J. Exp. Psychol, 66. Address: Division of Social Sciences, University of California, Irvine, Calif. 92664.

BIRNBAUM, PROF. Z(YGMUNT) W(ILLIAM), Math, Statist, see 11th ed, Phys. & Biol. Vols.

BIRNBRAUER, DR. JAY S(PENCER), b. Philadelphia, Pa, Dec. 31, 33. DEVELOPMENTAL PSYCHOLOGY. B.S, Col. William & Mary, 54; Ph.D.(psychol), Indiana, 62. Acting asst. prof. PSYCHOL, Washington, 60-62, ASST. PROF, 62-64; NORTH CAROLINA, CHAPEL HILL, 65- Nat. Inst. Ment. Health proj. grant, 63-65. Res. consult, Vet. Admin. Hosp, Seattle, Wash, 63; Rainier Sch, Buckley, 64. U.S.A, 55-57, 1st Lt. Psychol. Asn; Soc. Exp. Anal. Behav; Asn. Ment. Deficiency. Learning problems in normal and deviant children, particularly retarded children. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27515.

BIRNEY, DR. ROBERT C(HARLES), b. Westmont, N.J, May 2, 25; m. 49; c. 4. PSYCHOLOGY. B.A, Wesleyan, 50; M.A, Michigan, 51, Ph.D.(psychol), 55. Asst. prof. PSYCHOL, AMHERST COL, 54-60, ASSOC. PROF, 60-U.S.A.A.F, 43-46. Psychol. Asn. Human motivation; experimental psychology. Address: 85 Alpine Dr, Amherst, Mass. 01002.

BIRNS, DR. BEVERLY, b. Sept. 7, 29; U.S. citizen; m; c. 3. PSYCHOLOGY. Cert. psychol, Geneva, 50, M.A, 52; Ph.D.(psychol), Columbia, 63. Clin. psychol. intern, Bronx Munic. Hosp. Center, 55-57; res. asst. PSYCHOL, ALBERT EINSTEIN COL. MED, 57-59, res. fel, 59-61, instr, 61-64, ASST. PROF, 64-, fel, 65-66. Res. grants, soc. class & cognitive develop. in infancy, 66-68, growth of psychophysiol. patterns in infancy, 66-69. Psychol. Asn; Soc. Res. Child Develop. Psychophysiology of the newborn and the emergence of personality factors in infancy; social class differences in cognitive development in infancy. Publ: Individual differences in human neonates' responses to stimulation, Child Develop, 3/65; co-auth, The effectiveness of various soothing techniques on human neonates, Psychosom. Med, 66 & Experience and temperament in human neonates, Early Experience & Behav. Address: Dept. of Psychiatry, Albert Einstein College of Medicine, 1300 Morris Park Ave, Bronx, N.Y. 10461.

BIRRER, DR. IVAN J, b. Atwood, Kans, Mar. 24, 18; m. 42; c. 1. PSYCHOLOGY. A.B, Ft. Hays Kans. State Col, 39; M.A, Clark, 40, Ph.D.(psychol), 47. Asst. prof. psychol, Ft. Hays Kans. State Col, 47-48; ED. ADV. TESTS & MEASUREMENTS, COMMAND & GEN. STAFF COL, 48- U.S.A, 42-45. Psychol. Asn. Text construction; multiple continua theory of attitudes toward war and peace. Address: U.S. Army Command & General Staff College, Ft. Leavenworth, Kans. 66027.

BISBING, LEONARD J(OHN), b. Ward, Colo, May 29, 11; m. 39; c. 4. ECONOMICS. B.S, Regis Col, 33; M.S, Denver, 39; Wisconsin, 40; Boston, 47-49. Partner & mgr, Clayton Grocery Co, 33-38; instr, Detroit, 39-40; econ. analyst & statistician, Automobile Mfrs. Asn, 40-42; instr. & dir. bur. statist. res, Akron, 42-43; dir. budget & statist, Nat. Tube Co, Ind, 43-45; assoc. prof. & ed, Letter, Clarkson Col, 45-47; chmn. statist. dept, Boston Col, 47-49; assoc. prof. econ, dir. mkt. dept, bur. bus. & econ. res. & ed, Memo, MARQUETTE, 49-52, LECTR. GRAD. SCH, 52-; OWNER & DIR, BISBING BUS. RES, 52- Econ. Asn; Statist. Asn; Mkt. Asn. Business economic and marketing research; business statistics; community and social research. Address: Bisbing Business Research, 915 Marine Plaza, Milwaukee, Wis. 53202.

BISCHOF, PROF. LEDFORD JULIUS, b. Chicago, Ill, July 20, 14; m. 41; c. 1. PSYCHOLOGY. B.S, Northern Illinois, 41; M.S, Southern Illinois, 47; Syracuse, 47-48; D.Ed, Indiana, 50. Teacher, high sch, Ill, 41-42; asst. dean men, Southern Illinois, 46-47; counseling psychologist, Syracuse, 47-48; instr. PSYCHOL, Southern Illinois, 49-50, assoc. prof, 50-54; NORTHERN ILLINOIS, 54-56, PROF, 56- Med.C, 42-46, 1st Lt. Psychol. Asn. Personality dynamics; personality theory. Publ: Problems & pleasures of middle age, Harper, 68; Intelligence: statistical concepts of its nature; Personality theories. Address: Dept. of Psychology, Northern Illinois University, De Kalb, Ill. 60115.

BISCOE, DEAN ALVIN B(LOCKSOM), Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

BISHIR, DR. JOHN (WILLIAM), b. Joplin, Mo, Sept. 23, 33; m. 54; c. 4. MATHEMATICS. A.B, Missouri, 55; M.S, Iowa, 57; Nat. Sci. Found. summer fel, N.C. State, 59, Ph.D.(statist), 61. Instr. math, N.C. State, 57-61, asst. prof, 61-62; statist, Fla. State, 62-63; MATH, N.C. STATE, 63-64, ASSOC. PROF, 64- Math. Asn; Inst. Math. Statist. Probability theory, especially Markov and branching processes; probabilistic learning models in psychology. Publ: Maximum population size in a branching process, Biometrics, 62; A lower bound for the critical probability in a percolation process, J. Royal Statist. Soc, 63; co-auth, A generalized linear learning model, J. Math. Psychol, 68. Address: Dept. of Mathematics, North Carolina State University, Raleigh, N.C. 27607.

BISHLINE, PROF. HARRY, JR, b. Sand Springs, Okla, Aug. 15, 26; m. 46; c. 2. ECONOMICS. B.S, Phillips, 50; M.B.A, Tulsa, 60; fel, Oregon, 64-65. Statist. clerk, Boeing Airplane Co, 50-51; prod. planner, Douglas Aircraft Co, 51-55; asst. to supt, Tulsa Prod. Co, 55-56; personnel & safety dir, Orbit Valve Co, 56-59; asst. prof. ECON, PHILLIPS, 59-67, ASSOC. PROF, 67- U.S.N, 44-46. Management; labor arbitration. Address: Dept. of Economics, Phillips University, Enid, Okla. 73701.

BISHOP, PROF. ALBERT B, III, Indust. Eng, see Suppl. IV to 11th ed, Phys. & Biol. Vols.

BISHOP, DR. BILL J, b. Denton, Tex, Feb. 23, 28; m. 55; c. 4. ACCOUNTING. B.B.A, North Texas State, 48, M.B.A, 53; Ph.D.(bus. admin), Texas, 61. Cost acct, Moore Bus. Forms Inc, 48-50; instr. ACCT, Texas A&M, 54-55; Texas, Austin, 55-56 & 58-60, assoc. prof, Arlington, 57-58, prof, 60-62; ASSOC. PROF, MISSOURI, COLUMBIA, 62- U.S.A.F, 50-52, T/Sgt. Acct. Asn. Capital budgeting. Publ: Effective organization for capital expenditure analysis, Mgt. Serv, 7/67. Address: Room 320, School of Business & Public Administration, University of Missouri, Columbia, Mo. 65201.

BISHOP, DR. CHARLES E(DWIN), b. Campobello, S.C, June 8, 21; m. 43; c. 3. AGRICULTURAL ECONOMICS. B.S, Berea Col, 46; M.S.A, Kentucky, 48, Farm Found. fel, 48-49; Ph.D, Chicago, 52. Asst. prof. agr. econ, N.C. State, 50-52, assoc. prof, 52-56, prof, 56, Reynolds Distinguished prof, 56-66, head dept, 57-66, dir. agr. policy inst, 60-66; exec. dir, President's Nat. Adv. Cmn. on Rural Poverty, 66-67; V.PRES, NORTH CAROLINA, 67- Consult, U.S. Air Force, 52-56; Tenn. Valley Authority, 56-57; state exp. stas. div, U.S. Dept. Agr, 56-61. Mem, Nat. Cmt. Agr. Policy; adv. cmt, Center

Agr. & Econ. Adjust. U.S.A.A.F, 43-45, 2nd Lt. Econ. Asn; Agr. Econ. Asn.(pres, 67-68); Int. Conf. Agr. Econ. Inter-regional competition; income distribution; production economics. Publ: Introduction to agricultural economic analysis; ed, Farm labor in the United States; OECD, mobility of rural manpower. Address: 727 Runnymeade Rd, Raleigh, N.C. 27607.

BISHOP, DR. CLAYTON K(ENT), b. Boston, Mass, July 15, 14; m. 44; c. 4. PSYCHOLOGY. A.B, Brown, 44; M.A, Yale, 46; fel, Indiana, 46-49, Ph.D. (psychol), 54. Instr. psychol, Indiana, 49-52; Denison, 52-54, asst. prof, 54-59; res. psychologist, TRAINING DEVICE CENTER, U.S. DEPT. NAVY, Port Washington, 59-61, head crew training br, 61-63, RES. PSYCHOLOGIST, ORLANDO, FLA, 64- Psychol. Asn; Research Soc. Statistics; learning theory; physiological psychology. Address: 2480 Banchory Rd, Winter Park, Fla. 32789.

BISHOP, PROF. DAVID W(ENDELL), Polit. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BISHOP, PROF. DONALD G, b. Altoona, Pa, May 16, 07. POLITICAL SCIENCE. A.B, Akron, 28; M.A, Princeton, 29; Ph.D, Ohio State, 39. From instr. to PROF. POLIT. SCI, SYRACUSE, 38-, CHMN. INT. RELS. PROG, 50-, dir. citizenship prog, 42-47, chmn. dept. polit. sci, 65-67. Vis. prof, Tunghai Univ, 66-67. Polit. Sci. Asn. International relations; comparative government; American-Soviet diplomatic relations. Publ: Administration of British foreign relations; The Roosevelt-Litvinov agreements, Syracuse Univ; The administration of U.S. policy through the United Nations, Oceana, 67. Address: 833 Livingston Ave, Syracuse, N.Y. 13210.

BISHOP, DR. F. MARIAN, b. Springfield, Mo, Nov. 20, 27; m. 54; c. 2. SOCIOLOGY, ANTHROPOLOGY. B.A, Drury Col, 49; univ. scholar, Kansas, 49-50, M.A, 50; Dean Women scholar, Syracuse, 50-52, M.A, 52; Heermans fel, Washington (St. Louis), 52-54, Ph.D.(sociol), 54; M.S.P.H, Missouri, 66. Head res. & dean womens staff, Syracuse, 50-52; assoc. prof. sociol. & chmn. dept. sociol. & anthrop, Lindenwood Col, 54-56; vis. prof, overseas prog, Maryland, 57-58; assoc. prof. sociol. & anthrop, Augusta Col, 58-61; lectr, Christian Col, 61-62; ASSOC. PROF. COMMUNITY HEALTH & MED. PRACTICE, SCH. MED, MISSOURI, 63- Mem. family adv. cmt, Reorgn. Latter-day Saints World Church, 67-70. Sociol. Asn; Pub. Health Asn; Asn. Teachers Prev. Med. Medical sociology; American family; sociology of personnel and guidance; case study as a method of teaching. Publ: Co-auth, Medical interviewing: a programed manual, Mosby, 68; auth, Functional role activities of the M.D, Clin. Pediat, 8/67; co-auth, Time study of general practitioner's office hours, Arch. Environ. Health, 6/67. Address: Dept. of Community Health & Medical Practice, University of Missouri School of Medicine, Columbia, Mo. 65201.

BISHOP, PROF. GEORGE, JR, b. New York, N.Y, Jan 13, 10; m. 42; c. 2. FINANCE. A.B, Col. William & Mary, 35; M.B.A, N.Y. Univ, 55, Ph.D, 59. With acct. receivable dept, Linde Air Prod. Co, Union Carbide Corp, 35-36; sales correspondent, U.S. Gypsum Co, 36-39, sales rep, 40-42; acct. exec, Merrill Lynch, Pierce, Fenner & Smith, 47-50, 54-57, portfolio analyst, 57-59; asst. prof. FINANCE, col. bus. admin, Tennessee, 59-60, assoc. prof, 60-64, prof, 64-65; PROF. & HEAD DEPT, NORTHERN ILLINOIS, 65- Expert witness, Fed. Court, 63. U.S.N.R, 42-46, 50-54, Res, 54-, Capt. Econ. Asn; Finance Asn; Hist. Asn. Finance; financial history of the United States. Publ: Charles H. Dow and the Dow theory; Charles H. Dow: economist, Dow, 67; New England journalist: highlights in the newspaper career of Charles H. Dow, Bus. Hist. Rev. Address: Dept. of Finance, Northern Illinois University, DeKalb, Ill. 60115.

BISHOP, DR. HARDING ERNEST, b. Montreal, Que, June 21, 29; m. 56; c. 2. PSYCHOLOGY. B.Sc, McGill, 51; Nat. Coun. Combat Blindness fel, 56-58, Ph.D.(psychol), Chicago, 59. Lectr. PSYCHOL, Northwestern, 57; TORONTO, 58-61, asst.prof, 61-65, ASSOC. PROF, 65- Psychol. Asn. Comparative animal psychology; brain mechanisms in perception, memory and learning; innateness, maturation and learning in perception. Address: Dept. of Psychology, University of Toronto, Toronto 5, Ont, Can.

BISHOP, DR. HELEN MIRIAM, b. Marshalltown, Iowa, Mar. 30, 98. PSYCHOLOGY. B.A, Minnesota, 22, M.A, 30; Ph.D.(elem. ed, psychol), Pittsburgh, 48. Teacher, St. Paul Pub. Schs, Minn, 27-28, PSYCHOLOGIST, 28-66; PSYCHOLOGIST, AUDUBON COUNTY SCHS, IOWA, 66- Fel. Psychol. Asn. Psychological examining and education of exceptional children; arithmetic readiness and prediction of achievement. Publ: Psychologists' viewpoint on the retarded child; Predicting arithmetic achievement on the basis of performance at the grade 1 level of the elementary school; Psychometric measurements, Minn. Med. Address: Box 28, Audubon, Iowa 50025.

BISHOP, DR. H(OMER) G(UY), Psychol, see 10th ed, Soc. & Behav. Vols.

BISHOP, J(OSEPH) WARREN, b. Brooklyn, N.Y, Apr. 16, 12. BUSINESS FINANCE. A.B, Colby Col, 35; M.C.S, Dartmouth Col, 37. Cost acct. & statistician, Brown Co, N.H, 37-39; asst. acct, State Pub. Serv. Cmn, 40, chief acct, 40-42; instr. bus. admin, Colby Col, 46-48, from asst. prof. to assoc. prof, 48-55; v.pres. & controller, UNION MUTUAL LIFE INS. CO, 55-64, V.PRES. RES, 64- Councilman, Town of Falmouth. Mem, Am. Col. Life Underwriters, 64. U.S.N.R, 42-45, Comdr. Fel. Life Off. Mgt. Inst; Nat. Asn. Acct. Corporate long range planning. Address: Union Mutual Life Insurance Co, 400 Congress St, Portland, Maine 04112.

BISHOP, PROF. LUTHER DOYLE, b. Graham, Tex, Oct. 31, 21; m. 42. INDUSTRIAL MANAGEMENT. B.B.A, Texas, 48, M.B.A, 50; Ph.D.(bus. admin), Ohio State, 59. Mgr. dormitories, Texas, 48-49, instr. MGT, 49-51; PROF. & CHMN. DEPT, OKLAHOMA, 51- Teaching asst, Ohio State, 53-54. Consult. exec. develop. progs, Fed. Aviation Admin, 60-; Soc. Security Admin, 62-64; Voc. Rehab. Admin, 65-; U.S. Post Off. Dept, 66- U.S.N, 42-45. Acad. Mgt; Soc. Adv. Mgt; Indust. Mgt. Soc. Personnel management; management problems. Address: Dept. of Management, University of Oklahoma, Norman, Okla. 73069.

BISHOP, DR. MARGARET K(INCAID), Psychol, see 10th ed, Soc. & Behav. Vols.

BISHOP, DR. M(ELVIN) P(UCKETT), b. Halifax Co, Va, Apr. 25, 27; m. 50; c. 5. PSYCHOLOGY, PSYCHOPHARMACOLOGY. B.A, Vanderbilt, 53, Soc. Sci. Res. Inst. fel, 53-54, U.S. Pub. Health Serv. fel, 56-57, Ph.D.(psychol), 61. Instr. PSYCHOL, DEPT. PSYCHIAT. & NEUROL, SCH. MED, TULANE, 57-60, asst. prof, 60-63, ASSOC. PROF, 64- Spec. lectr, La. State, Baton Rouge, 59-60; La. State, New Orleans, 63-64. Dir. psychol. serv, Tulane Training & Res. Unit, East La. State Hosp, 57-60. Res. consult, La. Dept. Hosps, 60-; Biochem. Inst, Univ. Lund, 63; Vet. Admin. Hosp, New Orleans, 64-65. U.S.A, 45-46. AAAS; Psychol. Asn; Col. Neuropsychopharmacol. Biological factors in mental disease; neurophysiology of pleasure; behavioral effects of psychoactive drugs. Publ: Co-auth, Intracranial self-stimulation in man, Science, 4/63 & Observations of placebo response in chronic schizophrenic patients, Arch. Gen. Psychiat, 5/66; auth, Serum factors and drug response in schizophrenia, Excerpta Medica Int. Cong. Series 129, 10/67. Address: Tulane Medical School, 1430 Tulane Ave, New Orleans, La. 70112.

BISHOP, DR. PHILIP W(ILLIAM), b. Worthing, Eng, Mar. 24, 02. ECONOMICS. B.Com, London Sch. Econ, 27; Ph.D, Yale, 50. Pub. acct. practice, Eng, 19-38; instr. econ, Yale, 40-42, assoc. prof. & res. assoc, 46-50; instr, Oberlin Col, 42-45; field investr, Econ. Coop. Admin, 50-53; internal auditor, Gen. Serv. Admin, 53-56; HEAD CURATOR DEPT. ARTS & MFRS. MUS. HIST. & TECH, SMITHSONIAN INST, 56- Econ. Asn; Econ. Hist. Asn. History of technology; industrial history; application of accounting techniques to exploration of entrepreneurial decisions. Publ: Co-auth, Moments of discovery; auth, Beginnings of cheap steel. Address: Dept. of Arts & Manufactures, Smithsonian Institution, Washington, D.C. 20560.

BISHOP, DEAN ROBERT L(YLE), b. St. Louis, Mo, June 4, 16; m. 42. ECONOMICS. A.B, Harvard, 37, A.M, 42, Ph.D, 49. Instr. ECON, MASS. INST. TECH, 42-46, asst. prof, 46-50, assoc. prof, 50-57, PROF, 57-, DEAN SCH. HUMANITIES & SOC. SCI, 64-, head dept. econ. & soc. sci, 58-65. Vis. prof, Brandeis, 54; vis. lectr, Harvard, 55. Econ. Asn; Am. Acad. Arts & Sci; Economet. Soc. Economic theory; industrial economics. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

BISNO, PROF, HERBERT, b. Montreal, Que, Apr. 5, 22; U.S. citizen; m. 44; c. 2. SOCIOLOGY. B.A, Wisconsin, 46; M.S.W, California, Berkeley, 51. From asst. prof. to PROF. SOCIOL, OREGON, 52-, CHMN. COMMUNITY SERV. PROGS, SCH. COMMUNITY SERV. & PUB. AFFAIRS, 67- Consult, Hebrew Univ, Israel, 58-59. UN soc. welfare training expert, Indonesia & Turkey, 64-66; consult, sch. soc. welfare, Calgary, 67-68. U.S.A, 42-43. Nat. Asn. Soc. Workers; Sociol. Asn. Professional education and professionalization; political sociology; social change. Publ: The philosophy of social work, Pub. Affairs, 52; The place of the undergraduate curriculum in social work education, Coun. Soc. Work Ed, 59. Address: School of Community Service & Public Affairs, University of Oregon, Eugene, Ore. 97403.

BISSELL, DR. RICHARD M(ERVIN), JR, b. Hartford, Conn, Sept. 18, 09; m. 40; c. 5. ECONOMICS. B.A, Yale, 32, Ph.D, 39, hon. M.A, 49; London, 32-33. From res. asst. to asst. prof, Yale, 34-42; from asst. prof. to prof. econ, Mass. Inst. Tech, 42-52; consult. nat. & int. econ. & dir. res. proj, Ford Found, 52-54; dep. dir, Cent. Intel. Agency, 54-62; exec. v.pres, Inst. Defense Anal, 62, pres, 62-64; DIR. MKT. & ECON. PLANNING, UNITED AIRCRAFT CORP, 64- Econ. analyst, U.S. Dept. Commerce, 41-42; economist, asst. to dep. adminstr, dir. div. econ. policy, dir. ship requirements, exec. officer combined shipping adjust. bd. & secy. shipping employ. policy, cmt. united maritime authority, War Shipping Admin, 42-45; econ. adv. to dir. & dep. dir, Off. War Mobilization & Reconversion, 45-46; exec. secy, Presidents Cmt. For. Aid, 47-48; consult. & asst. dep. adminstr, Econ. Coop. Admin, 48, asst. adminstr. for. prog, 49, dep. adminstr, 50; dep. dir, Mutual Security Agency, 51-52, consult. to dir, 52-55. Consult, Scudder, Stevens & Clark, 47-48; U.S. Steel Corp, Del, 48; Perkin-Elmer Corp, 64- Nat. Security Medal, 62. Am. Acad. Arts & Sci; Econ. Asn. Economic theory; international economics. Publ: Price and wage policies and the theory of employment, Econometrica; Price, cost and investment, Am. Econ. Rev. Proc; Impact of rearmament on the free world economy, For. Affairs. Address: 22 Mountain Rd, Farmington, Conn. 06032.

BISSON, PROF. T(HOMAS) A(RTHUR), Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BISSONNETTE, GEORGES L(OUIS), A.A, b. Central Falls, R.I, July 22, 21. POLITICAL SCIENCE. A.B, Assumption Col, 44; S.T.B, Laval, 47, S.T.L, 49; M.A, Fordham, 52; fel. & M.A, Columbia, 57, Ph.D.(pub. law), 61. Instr. English, private sch, Mass, 44-45; polit. sci, Assumption Col, 49-51; apostolic adminstr. U.S.S.R, Roman Cath. Church, 53-55; assoc. prof. POLIT. SCI, ASSUMPTION COL, 58-62, PROF, 62-, ACAD. DEAN, 62-, dir. sch. for. affairs, 58-62. Fel. int. mkt, Harvard, 67. Lectr. & consult, U.S. Army War Col, 58-; lectr, U.S. Air War Col, 60; lectr. & consult, U.S. Army Command & Gen. Staff, 62- Geog. Soc; Soc. Pub. Admin; Coun. Geog. Ed; Asn. Adv. Slavic Studies; Planning Asn. Russian religious history, especially the church reforms of Peter the Great; contemporary soviet religious policy, especially legal and administrative measures; international trade, especially between soviet bloc and the rest of the world. Publ: Moscow was my parish; Pufendorf and the church reforms of Peter the Great; Church reforms of Peter the Great as a problem in soviet historiography. Address: Assumption College, Worcester, Mass. 01609.

BITNER, PROF. CLAUDE A, JR, b. El Dorado, Ark, July 29, 29; m. 55; c. 2. ECONOMICS. B.B.A, Texas, 50, M.A, 56; Mich. State, 56-59. Asst. ECON, Texas, 55-56; instr, Mich. State, 56-59; asst. prof, Texas A&M, 59-67, proj. dir, community serv. seminar prog, 66-67; ASSOC. PROF, HOUSTON, 67- U.S.A, 52-54. Econ. Asn. Public finance; social control of industry; monetary theory and money banking. Publ: British premium bonds, Bus. Topics; Regressive impact of farm property taxation of Michigan farm families, Quart. Bul. Mich. Agr. Exp. Sta. Address: Dept. of Economics, University of Houston, Houston, Tex. 77004.

BITTERMAN, PROF. M(ORTON) E(DWARD), b. New York, N.Y, Jan. 19, 21; m. 52; c. 2. PSYCHOLOGY. B.A, N.Y. Univ, 41; M.A, Columbia, 42; Ph.D.

(exp. psychol), Cornell, 45. Asst. PSYCHOL, Cornell, 42-43, instr, Army Specialized Training Prog, 43-44, univ, 44-46, asst. prof, 46-50; assoc. prof, Texas, 50-54; vis. assoc. prof, California, 54-55; Inst. Adv. Study, 55-57; assoc. prof, BRYN MAWR COL, 57-60, PROF, 60- Lectr, sch. law, Pennsylvania, 66- Coop. ed, Am. J. Psychol, 51-54, ed, 55- AAAS; fel. Psychol. Asn; Psychonomic Soc; Inst. Biol. Sci. Comparative and legal psychology; learning. Publ: Phyletic differences in learning, Am. Psychologist, 65; Animal learning, In: Experimental methods and instrumentation in psychology, McGraw, 66; Learning animals, In: Contemporary approaches to psychology, Van Nostrand, 67. Address: Dept. of Psychology, Bryn Mawr College, Bryn Mawr, Pa. 19010.

BITTERMANN, DR. HENRY J(OHN), b. New York, N.Y, Nov. 9, 04; m. 28, 48; c. 1. ECONOMICS. B.A, Amherst Col, 25, Hitchcock fel, 25-26; Rockefeller fel, Chicago, 25-27, Ph.D.(econ), 32. Instr. econ, Ohio State, 29-32, asst. prof, 32-37, assoc. prof, 37-43; economist, div. monetary res, U.S. TREAS. DEPT, 43-48, financial adv, off. int. finance, 48-50, sr. financial adv, 50-62, dir. Off. Int. Financial Policy Coord, 62-65, ASSOC. DIR. OFF. INT. FINANCIAL POLICY COORD. & OPERS, 65- Consult-adv, Int. Bank Reconstruct. & Develop, 66-67. Adv, U.S. Del, bd. governors, Int. Monetary Fund & Int. Bank, 47- Tech. secy, UN Monetary & Financial Conf, Bretton Woods, 44. Am. Econ. Asn; Royal Econ. Soc. International and public finance; economic theory. Publ: State and federal, grants-in-aid; Elasticity of supply, Am. Econ. Rev; Adam Smith's empiricism and the law of nature, J. Polit. Econ. Address: U.S. Treasury Dept, 15th & Pennsylvania Ave. N.W, Washington, D.C. 20200.

BITTERMANN, KATHLEEN STUDDART, b. Graceville, Minn, May 2, 16; m. 48. ECONOMICS. A.A, George Washington, 49. Economist, off. for. agr. rels, U.S. Dept. Agr, D.C, 40-44; Off. Price Admin, 44-45; statistician, hosp. div, U.S. Pub. Health Serv, 45-48; economist, off. food & agr, Int. Coop. Admin, 48-61; admin. officer, off. mat. resources, AGENCY INT. COOP, 61-67, CHIEF FOOD RESOURCES DIV, 67- Econ. Asn. Address: 6931 33rd St. N.W, Washington, D.C. 20015.

BITTING, DR. H(ERBERT) WAYNE, b. Buda, Ill, Dec. 31, 11; m. 41; c. 2. AGRICULTURAL ECONOMICS, MARKETING. B.S, Illinois, 33; M.S, Iowa State Col, 37; Ph.D.(mkt), Minnesota, 52. Coop. res. supvr, Rice Br. Exp. Sta, Univ. Arkansas, 37-39; assoc. agr. economist, fruit & veg. div, Surplus Mkt. Admin, 40-42; bus. economist, imported food sec, Off. Price Admin, 42; economist, meats, fats & oils sec, 45-47; agr. economist, mkt. res. div, agr. mkt. serv, U.S. Dept. Agr, 47-59, staff specialist food, prod. & process eval. staff, Agr. Res. Serv, 59-65; proj. leader bakery & cereal prod, Nat. Cmn. Food Mkt, 65-66; STAFF SPECIALIST FOOD, PROG. PLANNING & EVAL. STAFF, AGR. RES. SERV, U.S. DEPT. AGR, 66- U.S.N, 42-45, Lt. Agr. Econ. Asn; Asn. Cereal Chem; Mkt. Asn; Inst. Food Tech. Economic and scientific information and judgment necessary for objective evaluation of programs, new and in progress within research divisions of the Agricultural Research Service, for guidance of the administrator. Publ: Co-auth, Domestic and foreign market potentials for food protein products, Agr. Res. Serv, U.S. Dept. Agr, 1/64; auth, Milling and baking, In: Report of the National Commission on Food Marketing to the President, 6/66 & Organization and competition in the milling and baking industries, Tech. Study 5, Nat. Cmn. Food Mkt, 6/66, U.S. Govt. Printing Off. Address: 7400 Bybrook Lane, Chevy Chase, Md. 20015.

BITTINGER, DR. DESMOND W, b. Eglon, W.Va, Dec. 16, 05. SOCIOLOGY. A.B, Elizabethtown Col, 27; A.M, Pennsylvania, 34, Ph.D, 40; Chicago, 47-48. Prof. sociol. & ed, McPherson Col, 40-44; ed, Gospel Messenger, Church of the Brethren, 44-50; pres, McPherson Col, 50-65; PROF. ANTHROP, CHAPMAN COL, 65-, CHANCELLOR, 66-, dean, world floating campus, 65-66, 68. Lectr, Bethany Biblical Sem, 48-49; Elgin Community Col, 49-50; nat. moderator, Church of the Brethren, 50-51, 58-59; Fulbright lectr, Pakistan & Taiwan, 62-63. Acad. Polit. & Soc. Sci. An educational experiment in its cultural setting in West Africa; black and white in the Sudan. Publ: In the land of the monkey bread tree; Wu Feng: a study of head hunters in Taiwan, Tunghai Univ, Taiwan, 63. Address: Chapman College, Orange, Calif. 92666.

BITTINGER, PROF. EMMERT FOSTER, b. Jordan Run, W.Va, Sept. 22, 25; m. 47; c. 3. SOCIOLOGY. B.A, Bridgewater Col, 45; M.A, Maryland, 51, Ph.D.(sociol), 64; B.D, Bethany Biblical Sem, 52. Pastor, Pleasant View Church of the Brethren, 51-58; PROF. SOCIOL, BRIDGEWATER COL, 63- Summers, Univ. Virginia fel. Asian studies, 65 & 66, Nat. Sci. Found. fel, Colorado, 67. Sociol. Asn. Vocational realism and development. Address: Dept. of Sociology, Bridgewater College, Bridgewater, Va. 22812.

BITTLE, PROF. WILLIAM E(LMER), b. Mansfield, Ohio, May 11, 26; m. 49; c. 3. ANTHROPOLOGY. A.B, California, 49, M.A, 50, Ph.D, 56. Asst. anthrop, California, Los Angeles, 49-51; res. assoc. LING. & ANTHROP, Michigan, 51-52; from instr. to assoc. prof, OKLAHOMA, 52-65, PROF, 65- U.S.N, 44-46. Fel. Anthrop. Asn; Ling. Soc. Kiowa-Apache linguistics and ethnology; race relations. Publ: Language and culture: a comment in Voegelin's view, Southwest. J. Anthrop; Language and culture areas: a note on method, Philos. Sci; Curative aspects of peyotism. Address: Dept. of Anthropology, University of Oklahoma, Norman, Okla. 73069.

BITTNER, DR. EGON, b. Skrecon, Czech, Apr. 16, 21; m. 51; c. 2. SOCIOLOGY. A.B, Los Angeles State Col, 55; M.A, California, Los Angeles, 58, Ph.D, 61. Acting instr. sociol, California, Riverside, 60-61, asst. prof, 61-63; res. soc. scientist, Langley Porter Neuropsychiat. Inst, Univ. California Med. Center, San Francisco, 63-68; PROF. SOCIOL, BRANDEIS, 68- Sociol. Asn; Law & Society Asn. Sociological theory; sociology of knowledge; social control. Address: Dept. of Sociology, Brandeis University, Waltham, Mass. 02154.

BITTNER, DR. REIGN H(ARRY), b. Nashville, Ohio, July 22, 07; m. 38. PSYCHOLOGY. A.B, Hiram Col, 29; A.M, Nebraska, 38; Ph.D.(psychol), Ohio State, 41. Teacher, high schs, Ohio, 29-37; chief test anal. sub-sect, Adj. Gen's Off, U.S. War Dept, 41-42; dir. personnel res, Owens-Ill. Glass Co, 46-49; asst. dir, PRUDENTIAL INS. CO, 49-53, PERSONNEL DIR, N.CENT. HOME OFFICE, 53- Consult, Adj. Gen's Off, U.S. Dept. Army, 50. Mem. bd, Am. Bd. Exam. Prfnl. Psychol, 50-57. U.S.A, 43-46, Maj. Fel. Psychol. Asn. Aptitude and personality tests; employment techniques; performance ratings. Publ: Developing and industrial merit rating procedure & co-auth, Using ratings to validate personnel instruments, Personnel Psychol; The rank comparison rating method, J. Appl. Psychol. Address: 504 Janalyn Circle, Minneapolis, Minn. 55416.

BITTNER, PROF. WALTON S(IMON), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 63.

BIXBY, ALDEN F(LINT), b. Cleveland, Ohio, Feb. 14, 09; m. 41; c. 4. STATISTICS. S.B, Harvard, 31, A.M, 32. With R.R. RETIREMENT BD, 39-49, chief unemploy. & sickness benefit anal, OFF. DIR. RES, 49-60, CHIEF DIV. LABOR STUDIES, 60- AAAS; Statist. Asn. Employment and payroll studies; unemployment and sickness analysis; labor economics. Address: 844 Rush St, Chicago, Ill. 60611.

BIXBY, DR. F(REDERICK) LOVELL, b. Gardner, Mass, May 28, 01; m. 26; c. 2. PSYCHOLOGY. A.B, Clark, 22; Ph.D.(psychol), Cornell, 26; hon. L.H.D, Rutgers, 66. Instr. psychol, Cornell, 23-27; asst. prof, Rice Inst, 27-29; psychologist, ment. hyg. bur, Trenton State Hosp, 29-30; asst. dir. div. classification & parole, Dept. Inst. & Agencies, N.J, 30-31, dir. div. classification & ed, 31-33; field & res. secy, Osborne Asn, Inc, 33-34, 37-38; asst. dir. bur. prisons, U.S. Dept. Justice, 34-37, chief probtn. & parole, 38-39; warden, Fed. Reformatory, Ohio, 39-46; mem. adult authority, State of Calif, 44; dir. correction & parole, State Dept. Inst. & Agencies, N.J, 46-59; CONSULT. PROBTN, ADMIN. OFF. COURTS, 59- U.S.A, 44-46, Lt. Col. Visual phenomenology; clinical psychology; penal administration. Address: Administrative Office of the Courts, State House Annex, Trenton, N.J. 08625.

BIXBY, LENORE EPSTEIN, b. New York, N.Y, Aug. 12, 14; m. 67. ECONOMICS, STATISTICS. B.A, Wellesley Col, 35, fel. & M.A, Columbia, 37. Economist, consumer purchases study, U.S. Bur. Labor Statist, 36-39, indust. analyst, productivity div, 41-42, price economist & chief income & expenditure sect, cost of living div, 42-48; statistician, reports & statist. div, Econ. Coop. Admin, 48-51; reports & statist. officer, Mutual Security Agency Mission to France, 51-53; res. analyst, res. & statist. div, off. cmnr, SOC. SECURITY ADMIN, 54-59, asst. dir. div. prog. res, 59-63, DEP. ASST. CMNR. RES. & STATIST, 63- Asst, Carnegie Corp, 39-40; soc. sci. analyst, Nat. Resources Planning Bd, 40-41. U.S. Dept. Health, Ed. & Welfare distinguished serv. award, 67. Econ. Asn; Statist. Asn; Gerontol. Soc; Pub. Welfare Asn. Economic resources of the aged; levels of consumption as related to family income and size. Publ: Measuring the size of the low-income population, Nat. Bur. Econ. Res, 68; Family expenditure in selected cities, 1935-1936, Bull, Bur. Labor Statist; co-auth, The aged population of the United States: the 1963 social security survey of the aged, U.S. Dept. Health, Ed. & Welfare, 67. Address: 2206 N. Taft St, Arlington, Va. 22201.

BIXENSTINE, PROF. V(ERTUS) EDWIN, b. Centerville, Ill, Aug. 5, 26; m. 49; c. 4. PSYCHOLOGY. B.A, Illinois, 48, M.S, 50, Ph.D.(psychol), 53. Asst. psychol, Illinois, 51-52, intern, psychol. clin, 52-53; trainee, Vet. Admin. Hosp, Downey, Ill, 53-54, staff psychologist, Vet. Admin. Regional Off, Ind, 54-56; asst. prof. PSYCHOL, KENT STATE, 56-63, assoc. prof, 63-67, PROF, 67-, acting dir. psychol. clin, 63-64. Consult. psychologist, Hiram Col, 57-59; Nat. Inst. Ment. Health grant, 59- Consult, Hawthorden Hosp, Northfield, Ohio, 65- Mem. bd. dirs, Integrity Ther, Urbana, Ohio, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 63. U.S.N, 44-46. AAAS; Psychol. Asn. Relationship of certain game theoretic variables to human decision making. Publ: Empericism in latter-day behavioral science, Sci, 64; Control of choice exerted by structural factors in 2-person non-zero sum games, J. Confliction Resolution, 66; Effect of psychopathy on group consensus and cooperative choice in a 6-person game, J. Personnel Soc. Psychol, 67. Address: Dept. of Psychology, Kent State University, Kent, Ohio 44240.

BIXLER, PROF. HAROLD HENCH, b. Carlisle, Pa, Apr. 17, 97; m. 24. PSYCHOLOGY. A.B, Dickinson Col, 18; A.M, Columbia, 27, Ph.D.(ed. res), 28. Teacher, pub. schs, Pa, 19-20; dir. res. & guid, Ga, 21-26, 27-50; assoc. in elem. ed, teachers col, Columbia, 26-27; prof. ED. & PSYCHOL, WEST. CAROLINA, 51-67, EMER. PROF, 67- Res. dir, State Cmn. Study Pub. Sch. Ed. Gifted Children, N.C, 60-61; gifted student proj, West. Carolina Col, 61-62. Sig.C, 18-19. Psychol. Asn. Test construction; gifted children; guidance. Publ: Co-auth, Educational research handbook, 68; auth, Metropolitan achievement tests; Check lists for educational research. Address: 134 Superior Ave, Decatur, Ga. 30030.

BIXLER, PROF. RAY H(ERBERT), b. Nebr, May 15, 17; m. 56; c. 4. PSYCHOLOGY. B.Ed, Ill. State Norm. Univ, 39; M.A, Ohio State, 42, Ph.D.(psychol), 51. Psychologist, Akron Child Guid. Center, 43-44; counsr, Minnesota, 44-46; psychologist, Minn. Psychiat. Inst, 46-48; from asst. to PROF. PSYCHOL, LOUISVILLE, 48-, head dept, 48-67. Docent, Hamburg, 53-54; Fulbright prof, Fulbright Cmn, Colombia, 64. Field psychologist, George Fry & Assocs, 56-59. Consult, State Dept. Ment. Health, Ky, 49-55, 67-; Court Domestic Rels, Louisville, 51-53. AAAS; Psychol. Asn; Interam. Soc. Psychol. Ethics of research and practice; race relations; developmental psychology; counseling and psychotherapy. Publ: Test interpretation in vocational guidance; Limits are therapy; Ostracize them! Saturday Rev, 7/66. Address: Dept. of Psychology, University of Louisville, Louisville, Ky. 40208.

BIZZEL, DR. JACK ENGLISH, b. Anna, Ill, Dec. 19, 26; m. 47; c. 1. POLITICAL SCIENCE. B.S, Southern Illinois, 57, M.A, 58, Ph.D.(govt), 66. Instr. bus, voc-tech. inst, Southern Illinois, 57-66; ASSOC. PROF. POLIT. SCI, MOREHEAD STATE, 66- Res. assoc, Nat. Asn. Counties, D.C, 65-66. Consult, Applachia Ed. Lab, Charleston, W.Va, 67. U.S.A.F, 45-46, Sgt. Polit. Sci. Asn. Public administration; state and local government; use of electronic data processing systems in county government. Publ: The county benefits of EDP, 8/66, EDP personnel and salaries, 10/66 & EDP equipment and rental, 12/66, Am. County Govt. Address: Dept. of Political Science, Morehead State University, Morehead, Ky. 40351.

BJELAJAC, SLAVKO N, b. Bos. Krupa, Yugoslavia, Dec. 27, 05; nat; m. 30; c. 1. GEOGRAPHY. Belgrade Mil. Acad, 24; dipl, mil. sci, Ecole Superieure De Guerre, 30; dipl. soc. sci, Gen. Staff Col, 35. Prof. geog, Belgrade Mil. Acad, 38-40; chief, Cabinet of Prime Minister, 41; undersecy, Ministry of War, 44, 45; prof. inst. langs, Georgetown, 51-54; consult. spec. warfare directorate, U.S. DEPT. ARMY, 55-67, ASST. TO DIR. INT. & CIVIL AFFAIRS, OFF. DEP. CHIEF OF STAFF MIL. OPERS, 67- Lectr, spec. warfare center, Ft. Bragg, N.C; Nat. War Col; Interam. Defense Col, 63-67. Consult, U.S. Govt, 49-55. Royal Yugoslav Army, 42-43; U.S.A.R, Col. Economic, political, human and military geography; psychological operations; military science; internal security; stability operations; counterinsurgency. Publ: Unconventional warfare in nuclear era; A design for psychological operations in Vietnam, ORBIS, For. Policy Res. Inst. Univ. Pennsylvania, 66; Guidelines for measuring success in counterinsurgency, Res. Anal. Corp, 67. Address: 2818 38th St. N.W, Washington, D.C. 20007.

BJORAKER, PROF. WALTER THOMAS, b. Steele Co, Minn, Jan. 19, 20; m. 47; c. 3. AGRICULTURAL EDUCATION. B.S, Minnesota, 42, M.S, 48, Ph.D.(agr. ed), 52. Asst. supvr. agr. ed, Minn. State Dept. Ed, 45-46; instr, high sch, Minn, 46-48; agr. ed, Minnesota, 48-50; PROF. AGR. & EXTEN. ED. & CHMN. DEPT, WISCONSIN, 50- Summer vis. prof, California, Davis, 58 & Pennsylvania, 61. Consult, U.S. Agency Int. Develop. Nigerian Proj, Univ. Ife, 64 & Nigerian Ministry Agr, 65, Brazil Proj, 67; UN, 66. Mem, Nat. Cmt. Future Farmers Am. Int. Prog, U.S. Off. Ed, 67-; cmt. agr. ed, Nat. Acad. Sci-Nat. Res. Coun, 67- U.S.A.A.F, 42-45, Sgt. Asn. Teachers Ed. Agr; Voc. Asn. Educational and occupational adjustment of youth. Publ: Co-auth, Educational and occupational adjustment of Wisconsin male youth, Univ. Wisconsin Res. Bull, 1/68. Address: 5701 Midmoor Rd, Madison, Wis. 53716.

BJORK, DR. RICHARD E, b. Astoria, Ore, Aug. 18, 30; m. 53; c. 2. POLITICAL SCIENCE. B.A, Yale, 52; M.A, Vanderbilt, 53; Washington (Seattle), 55; Ph.D, Mich. State, 61. Res. assoc. int. ed, inst. res. overseas progs, Mich. State, 57-59, instr. soc. sci, univ, 59-60, asst. prof, 60-61; asst. prof. & dean students, Austin Col, 61-63; dean lib. arts, State Univ. N.Y. Col. Plattsburgh, 63-66; ASST. TO PRES, ROCHESTER INST. TECH, 66- Res. consult, Asn. For. Student Adv, 60. U.S.C.G, 53-56, Res, 56, Lt. Polit. Sci. Asn; Soc. Pub. Admin; Nat. Ed. Asn. Roles of American universities in international relations; interaction of foundations, universities and United States government, especially implications of foundation and government sponsorship of university programs; administration of higher education. Publ: Co-auth, The international programs of American universities: an inventory and analysis, East Lansing, 58 & Minimizing international conflict, Mich. State, 63; auth, Universities, foundations and government: pattern of interaction, J. Higher Ed, 4/62. Address: 5 Thornwood Circle, Pittsford, N.Y. 14534.

BJORKLUND, DR. ELAINE M. (MRS. ALLEN K. PHILBRICK), b. Ogden, Utah, May 8, 28; m. GEOGRAPHY. B.S, Utah, 49, M.A, Washington (Seattle), 51; Fulbright scholar, Australia, 51-52; Ph.D.(geog), Chicago, 55. Geogr, res. & planning sect, U.S. Bur. Census, 55-56; asst. prof. GEOG, Vassar Col, 56-65, ASSOC. PROF, 65-66; WESTERN ONTARIO, 67- Asn. Am. Geog; Soc. Woman Geog. Human, cultural and urban geography; areal functional organization. Publ: Focus on Adelaide, functional organization of the Adelaide Region, Australia. Address: Dept. of Geography, University of Western Ontario, London, Ont, Can.

BLACK, PROF. ABRAHAM H, Exp. Psychol. See 11th ed, Suppl. II to Phys. & Biol. Vols.

BLACK, DR. A(LBERT) G(AIN), Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

BLACK, BERTRAM J, b. Eng, Dec. 31, 13; nat; m. 39; c. 3. SOCIOLOGY. B.S, Washington (St. Louis), 37, M.S.W, 38. Asst. prof, sch. appl. soc. sci, Pittsburgh, 42-45; asst. exec. dir, Jewish Bd. Guardians, N.Y, 45-52; EXEC. DIR, ALTRO HEALTH & REHAB. SERV, INC, 52-, PRES, ALTRO WORK SHOPS, INC, 54- Dir. Bur. Soc. Res, Pa, 42-45; lectr, N.Y. Sch. Soc. Work, Columbia, 45-54; dept. community ed, Yeshiva, 46-53. Consult, Mem. Hosp, 46; Greater New York Fund, 47-49; Child Welfare League Am, 49-51; New York Community Ment. Health Bd. & N.Y. Dept. Ment. Hyg, 67- Mem. ment. health projs. grants cmt, Nat. Inst. Ment. Health, 60-62, chmn, 62-63, juvenile probs. grants cmt, 63-67. Fel. AAAS; fel. Pub. Health Asn; fel. Orthopsychiat. Asn.(treas, 60-62); Statist. Asn; Rehab. Asn; Asn. Soc. Workers; N.Y. Acad. Sci; Royal Soc. Health. Rehabilitation; child welfare; medical services. Publ: Rehabilitation and readjustment of the cardiac patient, Conn. State Med. J; Rehabilitation of the mentally ill through controlled transitional employment, Am. J. Orthopsychiat; Industrial therapy of the mentally ill in Western Europe, Altro Workshops, Inc, 66. Address: 45-52 Auburndale Lane, Flushing, N.Y. 11358.

BLACK, PROF. DONALD BURROWS, b. Calgary, Alta, July 2, 25; m. 52; c. 4. EDUCATIONAL PSYCHOLOGY. B.Ed, Alberta, 48, M.Ed, 49; Ed.D, Washington (Seattle), 51. Defence scientist, defence res. med. labs, Can. Nat. Defence Res. Bd, 51-54; dir. prfnl. serv, Los Angeles Off, Ed. Testing Serv, 54-57, asst. dir, 56-57; assoc. prof. ed. psychol, Alberta, 57-61, prof, 61-66; PROF. ED. & REGISTR, CALGARY, 66- Dir. Adv. Cmt. Ed. Res, 58-64. Coun. Measurement in Ed; Psychomet. Soc; Can. Asn. Profs. Ed. Manpower research and utilization; psychometrics; computer applications in education. Address: University of Calgary, Calgary, Alta, Can.

BLACK, DR. EDWIN R(OBERT), b. Toronto, Ont, May 8, 29; m. 52; c. 3. POLITICAL SCIENCE. B.A, Western Ontario, 51; M.A, British Columbia, 60; Commonwealth Studies & James B. Duke fels, Duke, 60, Ph.D.(polit. sci), 62. Newspaper ed. & reporting, Montreal, Toronto, Hamilton & Vancouver, 51-60; asst. prof. POLIT. SCI, British Columbia, 62-67; vis. asst. prof, QUEEN'S (ONT), 67-68, ASSOC. PROF, 68- Can. Polit. Sci. Asn.(asst. ed, jour, 67-); Inst. Pub. Admin. Can. Intergovernmental relations, especially comparative and Canadian federalism; political functions of the mass media; Canadian regional politics. Publ: Co-auth, A different perspective on Canadian federalism, Can. Pub. Admin, 66; auth, Oil offshore troubles the waters, Queen's Quart, 66; Federal strains within a Canadian party, In: Party politics in Canada, Prentice-Hall, Can, 67. Address: Dept. of Political Studies, Queen's University, Kingston, Ont, Can.

BLACK, DR. EUGENE C(HARLTON), Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BLACK, DR. GORDON S, b. Des Moines, Iowa, Oct. 2, 41; m. 64; c. 1. POLITICAL SCIENCE. A.B, Washington (St. Louis), 64; Nat. Defense Ed. Act fel. & Ph.D.(polit. sci), Stanford, 68. ASST. PROF. POLIT. SCI, ROCHESTER, 67- Consult, Soc. Sci. Res. Coun, 67-68. Polit. Sci. Asn. Publ: Co-auth, The arena of political competition, Bobbs-Merrill, (in prep), Class and party in partisan and non-partisan elections: the case of Des Moines, 63 & Public opinion and the war in Vietnam, 67, Am. Polit. Sci. Rev. Address: Dept. of Political Science, University of Rochester, Rochester, N.Y. 14627.

BLACK, DR. GUY, b. Minneapolis, Minn, July 4, 19. ECONOMICS. M.A, Chicago, 48, Ph.D, 51. Instr, California, 48-52, asst. prof, 52-55; sr. engr, Electronic Defense Lab, 55-59; staff specialist, Sylvania Electronic Systs, 59-63; Sloan Sch. Mgt, Mass. Inst. Tech, 63-64; policy planning staff, NASA, 64-65; exec. secy, President's Cmt. Econ. Impact Defense & Disarmament & mem. staff, Coun. Econ. Advisers, 65-67; MEM. SR. STAFF, PROG. POLICY STUDIES SCI. & TECH, GEORGE WASHINGTON, 67- U.S.A.A.F, 42-45. Am. Econ. Asn; Economet. Soc; Royal Econ. Soc; Inst. Mgt. Sci. Systems analysis; economics of science, technology and economic development; defense economic impact; management science; science policy; program planning. Publ: Long haul truck transportation of California fresh fruits and vegetables; co-auth, On optimal redundancy, Opers. Res; auth, Systems analysis in government operations. Address: 12317 Hanger Dr, Fairfax, Va. 22030.

BLACK, DR. JOHN WILSON, Exp. Phonetics, see 11th ed, Phys. & Biol. Vols.

BLACK, DEAN JOSEPH BURTON, JR, b. Princeton, Ind, Mar. 7, 24; m. 44; c. 3. FINANCE, ECONOMICS. B.S, Indiana, 42, M.B.A, 56, D.B.A.(finance), 65. Asst. gen. mgr, Black Lumber Co's Inc, 46-55; lectr. FINANCE, Indiana, 58-60; assoc. prof, Miami (Ohio), 60-66; PROF. & DEAN, WRIGHT STATE, 66- Financial economist, Govt. El Salvador, 64-65. U.S.A.R, 42-46, Lt. Col. Econ. Asn; Finance Asn. Business finance; money and banking; real estate. Address: Dept. of Finance, Wright State University, Dayton, Ohio 45431.

BLACK, DR. JOSEPH E, b. Blanding, Utah, Sept. 14, 21; m. 48; c. 4. POLITICAL SCIENCE. B.S, Utah State, 47; A.M, Northwestern, 48, Ph.D, 50. Asst. prof. govt, Miami (Ohio), 50-55, assoc. prof, 55-58, prof. govt. & chmn. dept. polit. sci, 58-63; prof. polit. sci. & dean faculty soc. sci, Ibadan, 63-65; DIR. HUMANITIES & SOC. SCI, ROCKEFELLER FOUND, 65- Summer vis. prof, East Africa, 63. Polit. Sci. Asn; Coun. For. Rels. International politics, law and organizations; American foreign policy. Publ: Co-auth, Foreign policies in a world of change, Harper, 63; auth, Admission of new members to the United Nations; The UN charter; problems of review and revision. Address: Rockefeller Foundation, 111 W. 50th St, New York, N.Y. 10020.

BLACK, DR. KATHRYN NORCROSS, b. Atlantic, Iowa, Jan. 28, 33; m. 62. PSYCHOLOGY. B.A, Iowa, 54, M.A, 56, fel, 56-57, Ph.D.(exp. psychol), 57. Res. asst, Child Welfare Res. Sta, 54-57; asst. prof. psychol, Trenton State Col, 57-59; res. fel, E.R. Johnstone Training & Res. Inst, 59; asst. prof, Western Reserve, 59-62; vis. scientist, sect. early develop, Nat. Inst. Ment. Health, 61, 62-65; ASSOC. PROF. CHILD DEVELOP. & FAMILY LIFE, PURDUE, 65- Res. assoc, ment. develop. center, Western Reserve, 59-62. Psychol. Asn; Soc. Res. Child Develop. Cognitive development; perceptual preference; learning; language development. Publ: Co-auth, Effects of type of stimulus pretraining on discrimination performance in preschool children, Child Develop. Address: Dept. of Child Development & Family Life, Purdue University, Lafayette, Ind. 47907.

BLACK, PROF. KENNETH, JR, b. Norfolk, Va, Jan. 30, 25; m. 48; c. 2. INSURANCE. A.B, North Carolina, 48, Huebner Found. fel, 50-53, M.S, 51; Ph.D, Pennsylvania, 53. REGENTS PROF. INS. & CHMN. DEPT, GA. STATE COL, 53- Ed, J. Am. Soc. Chartered Life Underwriters. U.S.N, 44-46. Life insurance company management; human behavior; pensions and profit sharing. Publ: Co-auth, Human behavior and life insurance, Prentice-Hall, 63, Life insurance, 64 & Property and liability insurance, Appleton, 68. Address: 2 Hanover West Court N.W, Atlanta, Ga. 30327.

BLACK, PROF. MARTIN L(EE), JR, b. Charlotte, N.C, Jan. 7, 05; m. 31; c. 2. ACCOUNTING. A.B, Duke, 26, M.B.A, Northwestern, 33. PROF. ACCT, DUKE, 30- Chief acct, Off. Price Admin, 41-43, consult, 43-47, Fulbright lectr, Canberra Univ. Col, Australia, 56-57; Yokohama Nat. Univ, Japan, 61-62. Consult, U.S. Atomic Energy Cmn, 49-53; Ord. Corp, U.S. Dept. Army, 53-55. Ed, Coop. Acct. Am. Acct. Asn.(pres, 59); Nat. Asn. Acct; Financial Exec. Inst. Cost accounting; accounting for agricultural cooperatives. Publ: Contrib, Auditing for agricultural cooperatives: Handbook Auditing Methods; Survey of cost accounting in industry; Accounting aspects of cooperatives, Acct. Rev. Address: 135 Pinecrest Rd, Durham, N.C. 27705.

BLACK, DR. MICHAEL STUART, b. Chicago, Ill, Jan. 29, 36; m. 58; c. 3. PSYCHOLOGY. B.A, Hopkins, 58; U.S. Pub. Health Serv. fel, Illinois, 62-63, M.A. & Ph.D.(psychol), 64. Res. assoc. psychol, INST. JUVENILE RES, 63-65, sr. res. assoc, 65-66, CHIEF DIV. PSYCHOMET. & BIOSTATIST, 66- Asst. prof, col. med, Illinois, 66- Psychol. Asn; Psychomet. Soc; Soc. Res. Child Develop. Quantitative methods in the behavioral sciences; multivariate experimental psychology in personality and child development; computer research in the behavioral sciences. Publ: The development of personality factors in children and adolescents, Ed. & Psychol. Measurement, fall 65; co-auth, The dimensions of guilt, religion, and personal ethics, J. Soc. Psychol, 6/66 & Discriminant analyses of preschool masculinity and femininity, Multivariate Behav. Res, 7/67. Address: Institute for Juvenile Research, 232 E. Ohio St, Chicago, Ill. 60611.

BLACK, DR. PERCY, b. Montreal, Que, Jan. 6, 22; m. 51; c. 4. PSYCHOLOGY, SOCIAL ANTHROPOLOGY. B.Sc, Sir Geo. Williams Col, 44; M.Sc,

McGill, 46; A.M, Harvard, 48, Ph.D, 54; fel, Minnesota, 50-51; scholar, London, 53-54. Control chemist, Defence Industs, Ltd, Que, 41-42; Merck & Co, Inc, 43; instr. soc. sci, Kentucky, 48-49; asst, cmt. res. in race rels, Chicago, 49-50; asst. prof. psychol, New Brunswick, 51-53; res. assoc, Inst. Motivational Res, 55; dir. motivational res, Soc. Attitude Surv, 55-67; ASSOC. PROF. PSYCHOL, PACE COL, 67- Can. Army, 42-44. Fel. AAAS; Psychol. Asn. Research on conscience. Publ: Some social science generalizations, In: Societies around the world; Service station dealer; Mystique of modern monarchy. Address: 29 Cross Hill Ave, Yonkers, N.Y. 10703.

BLACK, DR. PERRY, Neurosurg, Behav. Neurophysiol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

BLACK, DR. ROBERT B(RUCE), b. Mass, May 23, 20; m. 47, 64; c. 2. POLITICAL SCIENCE, ECONOMICS. B.S, Harvard, 42, Sheldon fel, 48-49, Ph.D.(econ, govt), 50; Nat. War Col, 63-64. Fiscal analyst, U.S. Bur. Budget, 49-52; prog. officer, Int. Coop. Admin, 52-58, dep. dir, U.S. Opers. Mission, Tunisia, 58-61; dir, U.S. Agency Int. Develop. Mission, Senegal, 62-64; chief mil. assistance div, U.S. Dept. State, D.C, 64-67; DIR, U.S. AGENCY INT. DEVELOP, COSTA RICA, 67- Mem. staff, President's Mat. Policy Cmn, 51-52. U.S.N, 42-46, Lt. Comdr. Polit. Sci. Asn; Econ. Asn; Soc. Int. Develop. American and foreign city planning and regional resources; economics of underdeveloped areas. Address: 6655 MacArthur Blvd, Washington, D.C. 20016.

BLACK, DR. ROBERT P(ERRY), b. Hickman, Ky, Dec. 21, 27; m. 51; c. 2. ECONOMICS. B.A, Virginia, 50, M.A, 51, Ph.D.(econ), 55. Res. assoc, Fed. Reserve Bank, Va, 54-55; asst. prof. finance, Tennessee, 55-56; assoc. economist, FED. RESERVE BANK RICHMOND, 56-58, economist, 58-60, asst. v.pres, 60-62, v.pres, 62-68, FIRST V.PRES, 68- U.S.A, 46-47. Econ. Asn; Finance Asn. Monetary theory; monetary and fiscal policy. Publ: Co-auth, The federal reserve at work, 61 & Nonbank financial institutions, 65, Fed. Reserve Bank of Richmond; auth, Impact of member bank reserves upon the money supply, South. Econ. J, 1/63. Address: Federal Reserve Bank, Ninth & Franklin Sts, Richmond, Va. 23213.

BLACK, DR. ROGER WADE, b. Kansas City, Kans, June 13, 35; m. 66. EXPERIMENTAL PSYCHOLOGY. B.A, Drake, 57; Emory, 57-59; Ph.D.(psychol), Iowa, 61. Asst. prof. PSYCHOL, Tennessee, 61-63; Iowa, 63-66; ASSOC. PROF, SOUTH CAROLINA, 66- Summer instr, Drake, 61; prin. investr, Nat. Insts. Health res. grant, 62-64; & on Licensed Beverage Indust. res. grant, 63-65. Consult, HumRRO, 67- AAAS; Psychol. Asn; Psychonomic Soc. Instrumental and selective learning in appetitive situation with emphasis on the role and nature of reinforcement. Publ: On the combination of drive and incentive motivation, 65 & Shifts in reward magnitude and contrast effects: a reinterpretation, 67, Psychol. Rev; Discrimination learning as a function of pairs of sucrose reward, J. Exp. Psychol, 65. Address: Dept. of Psychology, University of South Carolina, Columbia, S.C. 29208.

BLACK, DR. STANLEY W, b. Charlotte, N.C, July 8, 39; m. 65. ECONOMICS. A.B, North Carolina, 61; M.A, Yale, 63, Ph.D.(econ), 65. Staff mem, President's Coun. Econ. Adv, 65-66; ASST. PROF. ECON, PRINCETON, 66- William Paterson bicentennial preceptor, Princeton, 66-69, dir. Princeton Study Labor Mkt, U.S. Dept. Labor grant, 67-68. Econ. Asn; Econom. Soc. Theory of short-term capital movements and exchange markets; measurement of potential gross national product and labor force; estimation of model of aggregate United States labor market; life cycle theory of family decision. Publ: Theory and policy analysis of short-term movements in the balance of payments, Yale Econ. Essays, spring 68; co-auth, The estimation of potential labor force and GNP, (in press). Address: Dept. of Economics, Princeton University, Princeton, N.J. 08540.

BLACK, DR. S(YDNEY) DOREE, Appl. Eng. Physics, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BLACK, PROF. THOMPSON, JR, b. Berwick-upon-Tweed, Eng, Sept. 20, 09; nat; m. 35; c. 4. POLITICAL SCIENCE. B.S, U.S. Naval Acad, 33; M.A, California (Los Angeles), 49, Ph.D, 54. Asst. prof. naval sci, Notre Dame, 41-43; assoc. prof, California, Los Angeles, 44-46, asst. polit. sci, 48-49; asst. prof. GOVT. CALIF. STATE COL. LOS ANGELES, 49-55, assoc. prof, 55-59, PROF, 59-, COORDINATOR SOC. SCI, 65-; chmn. div, 61-65, acting dean sch. letters & sci, 64. Acad. adv, Phalanx, 29-47. U.S.N, 29-47, Comdr. Soc. Legal Hist. Prize law in World War II. Address: Dept. of Government, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

BLACK, DR. WILLIAM, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

BLACK, WILLIAM A(LEXANDER), b. Limarady, Ireland, Aug. 13, 16; m. 49; c. 2. GEOGRAPHY. B.A, Western Ontario, 42; Ont. Col. Ed, Toronto, 45; M.A, Syracuse, 48. RES. GEOGR, GOVT. OF CAN, 48- Asn. Am. Geog; Am. Geog. Soc; Royal Can. Geog. Soc; Can. Asn. Geog; Geog. Asn, Brit. Resource utilization; ice. Publ: Labrador floater cod fishery, Ann. Asn. Am. Geog; Sea-ice survey, Queen Elizabeth Islands, 1962, Geog. Paper 39, 65; Fishery utilization, St. Barbe coast, Newfoundland, ARDA Study 1043, 66. Address: 223 Carling Ave, Ottawa, Ont, Can.

BLACKBURN, DR. ANTHONY JOHN, b. Antwerp, Belgium, Dec. 27, 37; m. 63; c. 2. ECONOMICS. B.A, Cambridge, 61; fel, Oxford, 61-63; Ph.D.(econ), Mass. Inst. Tech, 66. Economist, Mathematica Inc, N.J, 66; ASST. PROF. ECON, HARVARD, 66- Brit. Army, 56-58, 2nd Lt. Econometrics; mathematical economics; transportation systems. Address: 246 Garden St, Cambridge, Mass. 02138.

BLACKBURN, PROF. JULIAN, b. Hove, Sussex, Eng, Dec. 5, 03; nat; m. 38; c. 2. PSYCHOLOGY. B.Sc, London, 28; Ph.D.(psychol), Cambridge, 33. Res. investr, Indust. Health Res. Bd, 28-33; Rockefeller fel, Yale & Smith Cols, 33-34; psychologist, child guid. clin, Maudsley Hosp, London, Eng, 35-38; lectr. PSYCHOL, London Sch. Econ, 38-48; assoc. prof, McGill, 48-49; prof. & head dept, Queen's (Ont), 49-66; PROF. & CHMN. DEPT, TRENT, 66- Rockefeller fel, Med. Res. Coun, Eng, 35-38. Consult, Ont. Dept. Reform Insts, 52. Ed, Can. J. Psychol, 59- Can. Psychol. Asn.(pres, 56). Social psychology; personality; old age. Publ: Psychology and the culture pattern; Framework of human behavior. Address: Dept. of Psychology, Trent University, Peterborough, Ont, Can.

BLACKBURN, PROF. R(AYMOND) F(RANKLIN), b. Beaver Falls, Pa, Nov. 28, 01, m. 35. STATISTICS. B.S, Pittsburgh, 25, Ph.D, 39; M.A, Michigan, 27. From lab. asst. bus. statist. to prof. STATIST, PITTSBURGH, 25-66, EMER. PROF, 66- Indust. consult. Statist. Asn; Econ. Asn. Statistical methods applied to business problems; forecasting business conditions. Address: 818 Country Club Dr, Pittsburgh, Pa. 15228.

BLACKBURN, PROF. W(ILLIAM) BRUCE, b. Iowa, Feb. 20, 03; m. 25; c. 3. PSYCHOLOGY. B.A, Morningside Col, 26; M.A, Iowa, 28. Asst. to dean of men, Iowa, 27-28; instr. PSYCHOL, MARIETTA COL, 29-35, asst. prof, 35-47, assoc. prof, 47-49, PROF, 49- Speech pathology; reading skills. Publ: University of Iowa studies in psychology & Voluntary motor performance in stutterers and non-stutterers, Psychol. Rev. Address: Dept. of Psychology, Marietta College, Marietta, Ohio 45750.

BLACKER, DR. EDWARD, b. Brooklyn, N.Y, Aug. 30, 30; m. 55; c. 3. PSYCHOLOGY. B.S.S, City Col. New York, 51; Ph.D.(clin. psychol), Harvard, 58. Alcoholism res. anal, DIV. ALCOHOLISM, MASS. DEPT. PUB. HEALTH, 57-63, acting dir, 61, 62-63, DIR, 63- Dir. training prog. alcoholism res, Nat. Inst. Ment. Health, 61-; assoc. faculty mem. counseling psychol, Boston, 63-, asst. clin. prof. psychol, sch. med, 65- Psychol. Asn; Sociol. Asn; Pub. Health Asn. Drinking practices and alcoholism research; psychotherapy. Publ: Co-auth, Half-way houses for problem drinkers, Fed. Probation 6/60; Drinking behavior among male juvenile delinquents, Quart. J. Studies Alcohol, 6/65; auth, Sociocultural factors in alcoholism, In: Alcoholism, Little, 66. Address: Massachusetts Dept. of Public Health, Division of Alcoholism, Room 616, 755 Boylston St, Boston, Mass. 02116.

BLACKER, DR. KAY H, b. Salt Lake City, Utah, Nov. 25, 30; m. 54; c. 4. PSYCHIATRY. B.S, Utah, 55, M.D, 58. Res. in psychiat, LANGLEY PORTER NEUROPSYCHIAT. INST, 59-62, sr. res, 62-63, chief res, 63-64, staff psychiatrist, 64-65, SR. STAFF PSYCHIATRIST, 65- Nat. Inst. Ment. Health career investr. award, 64- U.S.A.F, 51-53. Am. Med. Asn; Psychiat. Asn. Cognition in mental patients. Publ: Co-auth, Four cases of autocastration, 63 & Longitudinal measurement of cognitive functioning in mental patients, 68, Arch. Gen. Psychiat; auth, Obsessive-compulsive phenomena and catatonic states—a continuum, Psychiatry, 65. Address: Langley Porter Neuropsychiatric Institute, 401 Parnassus Ave, San Francisco, Calif. 94122.

BLACKHAM, PROF. GARTH J, b. Moroni, Utah, Nov. 13, 26; m. 52; c. 2. PSYCHOLOGY. B.S, Utah State Agr. Col, 50, M.S, 51; Ph.D.(ed. & clin. psychol), Cornell, 54. Sch. psychologist, Child Study & Consult. Serv, 54-62; PROF. COUNSELING & ED. PSYCHOL, ARIZONA STATE, 62- Personnel & Guid. Asn. Educational psychology; school psychology; counseling and developmental psychology. Publ: The deviant child in the classroom, Wadsworth, 67. Address: 131 E. La Jolla Dr, Tempe, Ariz. 85281.

BLACKISTON, DR. DON T, b. U.S, Dec. 3, 06; m. 29. SOCIOLOGY. A.B, Ill. Col, 30; M.A, Chicago, 48, Ph.D.(sociol), 52. LAW ENFORCEMENT REP, SOUTH EAST CHICAGO CMN. URBAN DEVELOP, 52- U.S.N, 43-46. Sociol. Asn. Criminology; social psychology and disorganization. Address: 5532 S. Kenwood, Chicago, Ill. 60637.

BLACKMAN, HERBERT N(EIL), b. Brooklyn, N.Y, Dec. 20, 13; m. 37; c. 3. ECONOMICS. B.S.S, Brooklyn Col, 34; M.A, Columbia, 36. Staff analyst & economist, War Prod. Bd, 40-46; dir. prog. br, textile div, Civilian Prod. Admin, 46-47; int. economist, U.S. Dept. Commerce, 47-49, dir. export policy staff, off. secy, 49-55, int. economist, Bur. For. Commerce, 55-61, bus. economist, Bur. Census, 61-63; dep. dir, Bur. Int. Labor Affairs, U.S. DEPT. LABOR, 63-65, dir, Div. For. Econ. Policy, 65-67, ADMINSTR, BUR. INT. LABOR AFFAIRS, 67- Econ. Asn; Statist. Asn. International trade policy; East-West trade; government controls over industry and trade. Address: 7004 Wilson Lane, Bethesda, Md. 20034.

BLACKMAN, DR. JAMES HORTON, b. St. Louis, Mo, July 8, 18; m. 52; c. 3. ECONOMICS. A.B, Swarthmore Col, 39; fel. & cert, Russian Inst, Columbia, 49, M.A, Columbia, 49, Ph.D.(econ), 58. State dir. food stamp prog, U.S. Dept. Agr, 39-41; res. assoc. polit. econ, Hopkins, 49-51, lectr, 49-53; assoc. prof. econ, South Carolina, 53-57; res. dir. Soviet econ, inst. res. soc. sci, North Carolina, 57-60, assoc. prof. econ, 60-62, prof, 62-67, chmn. grad. econ. studies, 62-65; PROG. DIR. ECON, NAT. SCI. FOUND, 67- Lectr, Indust. Col. Armed Forces, 53; Carnegie travel fel, Russia, 57. Consult, Rand Corp, 51-56; Ford Found, 55-56; indust. prog. div, UN, 61-62. U.S.A.A.F, 41-45, Capt. Econ. Asn; Asn. Comp. Econ; Asn. Adv. Slavic Studies; Asn. Study Soviet-Type Econ. Analysis of Soviet economy; input-output and process analysis; transportation and economic development; comparative economic systems. Publ: Ed. & contrib, Production coefficients and technological trends in the USSR, 59; auth, Soviet transportation, In: Soviet economic growth, 53; A comparative study of industrial growth in the Soviet Union and the United States, Joint. Econ. Cmt, 60. Address: 3308 Cathedral Ave, N.W, Washington, D.C. 20008.

BLACKMAN, PROF. LEONARD S, b. New York, N.Y, Jan. 22, 28; m. 51; c. 3. EDUCATIONAL PSYCHOLOGY. Ph.D, Illinois, 54. Res. assoc, inst. res. except. children, Illinois, 54-55, Ford fel, 55-56; dir. res, Johnstone Training & Res. Center, 56-62; assoc. prof. ED, TEACHERS COL, COLUMBIA, 62-64, PROF, 64- Dir. center for res. & demonstration in ed. of handicapped, Teachers Col. Vis. lectr, Tennessee, 56. Mem. Coun. Except. Children. U.S.A, 46-47. Psychol. Asn; Asn. Ment. Deficiency; Ed. Res. Asn. Child development; mentally handicapped. Publ: Co-auth, Perceived parental attitudes as determinants of children's ego structure, Child Develop; Research in mental retardation; a point of view, Except. Children; auth, The dimensions of a science of special education, Ment. Retardation, 67. Address: Dept. of Special Education, Teachers College, Columbia University, New York, N.Y. 10027.

BLACKMER, DR. DONALD L(AURENCE) M(ORTON), b. Boston, Mass, July 6, 29; m. 51; c. 3. POLITICAL SCIENCE. A.B, Harvard, 52, M.A, 56, Ph.D. (polit. sci), 67. Exec. asst. to dir. center int. studies, MASS. INST. TECH, 56-60, lectr. POLIT. SCI, 60-61, asst. prof, 61-67, ASSOC. PROF, 67-, ASST. DIR. CENTER INT. STUDIES, 61- U.S.A, 53-55, Sgt. Soviet internal politics and foreign policy; political change in underdeveloped countries; American foreign policy. Publ: Co-ed, Emerging nations: their growth and United States policy; auth, Unity in diversity: Italian communism and the communist world, M.I.T. Press, 67. Address: Center for International Studies, E53-467, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

BLACKMORE, PROF. CHARLES P(OWELL), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BLACKMORE, DR. JOHN, b. Ridgefield, Wash, Feb. 18, 13; m. 38; c. 3. AGRICULTURAL ECONOMICS. B.S, State Col. Wash, 37; M.S, Maryland, 38; Littauer fel, Harvard, 48-50, M.B.A, 50, Ph.D, 55. Agr. economist, U.S. Dept. Agr, 38-41; chief agr. econ. br, Tenn. Valley Authority, 41-55; farm mgt. & land use br, Food & Agr. Orgn, UN, 55-59; prof. agr. & food.econ. & head dept, Massachusetts, 59-64; DIR. INT. AGR. PROGS, MINNESOTA, ST. PAUL, 64- Consult, Food & Agr. Orgn. U.S.N.R, 43-46. Farm Econ. Asn; Econ. Asn. Agricultural development and administration; resource economics; agricultural policy. Address: 204 Coffey Hall, University of Minnesota, St. Paul, Minn. 55101.

BLACKSTONE, PROF. J(OHN) HOMER, b. Dalton, Ga, Oct. 28, 11; m. 35; c. 2. AGRICULTURAL ECONOMICS. B.S, Ala. Polytech, 38, M.S, 41. Asst. agr. economist, Ala. Polytech, 41; asst, Kentucky, 41-42; asst. prof. AGR. ECON. & asst. agr. economist, AUBURN, 46-47, assoc. prof. & assoc. agr. economist, 48-53, PROF. & AGR. ECONOMIST, 53- U.S.M.C, 42-45. Agr. Econ. Asn. Farm management; agricultural marketing; food habits of consumer groups in small towns of Alabama that affect farmer's markets. Publ: Alabama's egg industry; Costs and return to commercial egg producers; Merchandising dairy products in Alabama retail food stores. Address: Dept. of Agricultural Economics, Auburn University, Auburn, Ala. 36830.

BLACKTON, PROF. CHARLES S(TUART), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BLACKWELL, DR. DAVID (HAROLD), Math, Statist, see 11th ed, Phys. & Biol. Vols.

BLACKWELL, PRES. GORDON W(ILLIAMS), b. Timmonsville, S.C, Apr. 27, 11; m. 37; c. 4. SOCIOLOGY. A.B, Furman, 32, LL.D, 58; A.M, North Carolina, 33, hon. LL.D, 67; fel, Harvard, 36-37, A.M, 37, Ph.D.(sociol), 40; L.H.D, Rollins Col, 61; LL.D, Miami (Fla), 64, The Citadel, 68. Prof. sociol. & head dept, Furman, 37-41; assoc. prof, North Carolina, 41-42, res. prof, 44-55, Kenan prof, 55-57, res. assoc, inst. res. soc. sci, 41-42, dir, 44-57, chancellor, womans col, 57-60; prof. sociol. & pres, Fla. State, 60-65; PRES, FURMAN, 65- Lectr, univ. col, Oxford, 55. Co-ed, Soc. Forces, 54-57. Mem. adv. bd, Encyclop. Int, 62-65; cmn. on policies & objectives, Am. Coun. Ed, 66-67. Sociol. Asn.(asst. ed, Am. Sociol. Rev, 46-50); Rural Sociol. Soc.(v.pres, 48); Sociol. Res. Asn; Acad. Polit. & Soc. Sci; Inst. Planners; Asn. Am. Cols. Community analysis and development; regionalism; research methodology in social science. Publ: Co-auth, Church and community in the South, 49 & Future citizens all, 54; auth, The selected addresses of Gordon W. Blackwell, Fla. State Univ, 65. Address: 68 Kensington Rd, Greenville, S.C. 29609.

BLACKWELL, DR. H(AROLD) RICHARD, Psychol, Ophthal, see 11th ed, Phys & Biol. Vols. & Suppl. II.

BLACKWELL, PROF. JAMES E(DWARD), b. Anniston, Ala, Mar. 4, 26; m. 60. SOCIOLOGY. B.S, Western Reserve, 48, M.A, 49; univ. fel, Washington State, 55-58, Whitney Found. fel, 58-59, Ph.D, 59. Instr. soc. sci, Shorter Col.(Ga), 51-52; Grambling Col, 52-55; acting instr. sociol, Washington State, 58-59; asst. prof, San Jose State Col, 59-63; acting dir, U.S. Peace Corps, Tanganyika, 63-64, dir, Malawi, 64-65; CHIEF, PANCHAYAT DEVELOP. BR, U.S. AGENCY INT. DEVELOP, KATHMANDU, NEPAL, 66- Sociol. Asn; Soc. Study Soc. Probs.(exec. secy, 62-63); African Studies Asn; Asn. Study Negro Life & Hist. Crime and delinquency, especially family adjustment to separation due to imprisonment; race relations, social problems theory; crime and justice in emerging Africa; education and development in Africa; community development in Nepal. Publ: Village aid and Panchayat development in Nepal, Univ. Missouri, 68. Address: Panchayat Development Branch, AID/Kathmandu, Dept. of State, Washington, D.C. 20521.

BLACKWELL, DR. ROGER DALE, b. Humansville, Mo, Aug. 7, 40; m. 61. MARKETING. B.S, Missouri, Columbia, 62, M.S, 63; Ph.D.(mkt), Northwestern, 66. ASSOC. PROF. BUS. ORGN, OHIO STATE, 65- Mkt. Asn. Consumer behavior. Publ: Co-auth, Consumer behavior, Holt, 68; auth, Potentials of contra-cyclical advertising, Bus. & Govt. Rev, 63; Price levels in the funeral industry, Quart. Rev. Econ. & Bus, 67. Address: Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

BLACKWOOD, PROF. D(UANE) F(REDERICK), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

BLACKWOOD, PROF. GEORGE D(OUGLAS), Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BLADEN, PROF. V(INCENT) W(HEELER), b. Stoke on Trent, Eng, Aug. 14, 00; m. 29; c. 3. ECONOMICS. B.A, Oxford, 21, M.A, 26; LL.D, Western Ontario, 62, Carleton (Can), 66; D.Lit, Acadia, 65. Instr. POLIT. ECON, TORONTO, 21-22, lectr, 22-27, asst. prof, 27-32, assoc. prof, 32-40, PROF, 40-, dir. inst. indust. rels, 46-50, inst. bus. admin, 50-53, chmn. dept. polit. econ, 53-59, dean faculty arts & sci, 59-66. Vis. prof, Buffalo, 45; fel, Massey Col. Managing ed, Can. J. Econ. & Polit. Sci, 35-46. Cmnr, Royal Cmn. to Investigate Can. Automotive Indust, 60-61; chmn, Cmn. on Financing Higher Ed. in Can, 64-65; Adj. Assistance Bd, Ottawa, 65- Am. Econ. Asn; Econ. Hist. Asn; fel. Royal Soc. Can; Can. Polit. Sci. Asn.(pres, 47-48); Royal Econ. Soc. History of economic thought. Publ: Introduction to political economy. Address: Dept. of Political Economy, University of Toronto, Toronto, Ont, Can.

BLAGOWIDOW, DR. GEORGE, Econ, see 10th ed, Soc. & Behav. Vols.

BLAIR, DR. ALEXANDER M(ARSHALL), b. Windsor, Ont, May 24, 32. GEOGRAPHY. B.A, Western Ontario, 54, Mackintosh prize, 60, M.A, 61; univ. fel, Illinois, Urbana, 61, Can. Coun. fel, 63, Ph.D.(geog), 65. Demonstr. GEOG, Western Ontario, 59-61, part-time instr. & reader, exten. div, 60-61; asst, Illinois, Urbana, 62-63, bur. community planning, 63; lectr, YORK (ONT), 64-65, ASST. PROF, 65- Summers, demonstr, dept. geog. & res. asst, comput. center, Western Ontario, 60, part-time instr, exten. div, 60-61. Asn. Am. Geog; Can. Asn. Geog. Non-metallic mineral industries in Southern Ontario. Publ: Geographic aspects of the cement industry in Southwestern Ontario, dept. geog, Univ. Western Ontario, 61; Surface extraction of non-metallic minerals in Ontario Southwest of the Frontenac Axis, Univ. Illinois, Urbana, 65; assoc. ed, The cartographer, 6/66. Address: Dept. of Geography, York University Faculty of Arts & Science, Toronto 12, Ont, Can.

BLAIR, PROF. GEORGE S(IMMS), b. Homewood, Kans, May 31, 24; m. 49; c. 2. POLITICAL SCIENCE. B.S. & A.B, Kans. State Teachers Col, 48, M.S, 49; Ph.D.(polit. sci), Northwestern, 51. Asst. prof. polit. sci, Tennessee, 51-53, training officer, bur. pub. admin, 51-52, acting assoc. dir, 52-53; asst. prof. polit. sci, Pennsylvania, 53-56, assoc. prof, 56-60, ed. assoc, inst. local & state govt, 53-60; assoc. prof. GOVT, CLAREMONT GRAD. SCH, 60-64, PROF, 64- Eagleton Inst. Republican Convention fel, 60; lectr, Calif. State Col. Fullerton, 60-61; exten. div, California, Los Angeles, 62-64; Calif. State Polytech. Col, 64-66. Fruin-Colnon book award, 59. Polit. Sci. Asn; Soc. Pub. Admin. Local and state government; state legislatures; politics of public education; comparative local government. Publ: Co-auth, Metropolitan analysis: important elements of study and action; auth, American local government, 64 & American legislatures: structure and process, 67, Harper. Address: Dept. of Government, 226 McManus Hall, Claremont Graduate School, Claremont, Calif. 91711.

BLAIR, PROF. GLENN MYERS, b. Portland, Ore, Oct. 2, 08; m. 34; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Seattle Pac. Col, 30; A.M, Washington (Seattle), 31, Denny fel, 31-32; fel, Columbia, 37-38, Ph.D.(ed. psychol), 38. Instr, high schs, Wash, 32-36; dir. guid. & res. schs, 36-37; instr. ED. PSYCHOL, ILLINOIS, URBANA, 38-39, assoc, 39-41, asst. prof, 41-46, assoc. prof, 46-48, PROF, 48- Fel. Psychol. Asn. Adolescent psychology; psychology of learning; diagnostic and remedial teaching. Publ: Mentally superior and inferior children; Diagnostic and remedial teaching; Educational psychology. Address: Dept. of Educational Psychology, University of Illinois, Urbana, Ill. 61801.

BLAIR, PROF. JACOB J(ACKSON), Econ, see 10th ed, Soc. & Behav. Vols.

BLAIR, PROF. PAUL TITUS, Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

BLAIR, DR. WESLEY C(LYDE), b. Oskaloosa, Iowa, May 31, 27; m. 51; c. 3. PSYCHOLOGY. B.A, Whitworth Col, 51; M.A, Nebraska, 52, Ph.D, 55. Psychologist, human eng. lab, Aberdeen Proving Ground, Md, 55-57; human factors sect, res. & develop. dept, Gen. Dynamics Corp, 57-61, supvr, 61-65; supvr. human eng, BIOTECH. DEPT, LOCKHEED MISSILES & SPACE CO, 65-67, SPEC. ASST. MAINTAINABILITY & HUMAN FACTORS, OCEAN SYSTS. DEPT, 67- U.S.A, 45-47, Sgt. AAAS; Psychol. Asn. Human visual monitoring processes; manned deep submersible design and construction; man-machine system analysis. Publ: Measurement of observing responses in human monitoring, Science; Effects of cranial x-radiation on maze acquisition in rats, J. Comp. & Physiol. Psychol; co-auth, Man as a monitor, Human Factors. Address: Bldg. 150 Dept. 57-60, Lockheed Missiles & Space Co, 1111 Lockheed Way, Sunnyvale, Calif. 94088.

BLAIR, PROF. WILLIAM ROBERT NELSON, b. Millbank, Ont, Mar. 22, 15; m. 42; c. 3. PSYCHOLOGY. B.A, Alberta, 42, M.A, 49; Ph.D.(psychol), Ottawa (Ont), 56. Dir. personnel selection & res, Can. Armed Forces, 64-66; PROF. PSYCHOL. & HEAD DEPT, CALGARY, 66- Dir, Alberta Ment. Health Study, 67. Res. consult, Royal Can. Mounted Police, 66. Can. Army, 41-66, Res, 66-, Col. Can. Psychol. Asn.(secy-treas, 61-64, pres, 65-66). Prediction and control of delinquent behavior. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

BLAISDELL, DR. DONALD C(HRISTY), b. U.S, Aug. 12, 99; m. 26; c. 2. POLITICAL SCIENCE. B.S, Pa. State, 20; M.A, Columbia, 26, univ. fel, 26-27, Cutting traveling fel, 27-28, Ph.D, 29. Instr. govt, Columbia Col, 28-30; asst. prof. polit. sci, Williams Col, 30-34; res. asst. & vis. asst. prof. polit. sci, Wisconsin, 35-36; asst. to undersecy, U.S. Dept. Agr, 36-40; Wash. rep, Cmt. Defend Am. by Aiding Allies, 40-41; mem. staff, off. defense aid reports, div. defense mat, U.S. Dept. State, 41-43, off. UN affairs, 43-51; dep. chief, U.S. permanent del, Int. Orgn, Geneva & U.S. rep, Int. Orgn, Affairs, 51-53; vis. prof. int. rels, Florida, 53-54; polit. sci, Wellesley Col, 54-55; chmn. dept. govt, City Col. New York, 55-57, prof, 55-68; RETIRED. Fel. AAAS; Polit. Sci. Asn. Political pressure groups in American democracy; international administration and organization; merging of public and private diplomacy. Publ: Government and agriculture; American democracy under pressure; International organization, Ronald, 66. Address: 50 Morningside Dr, New York, N.Y. 10025.

BLAISDELL, DR. FRANCIS JOSEPH, b. Chicago, Ill, Dec. 14, 13. PSYCHOLOGY. B.A, Chicago, 48, M.A, 56; Ph.D.(psychol), Ill. Inst. Tech, 59. Asst. psychol, Chicago, 56; res. dir, Reed-Ramsey Assocs, Ill, 57; instr, Roosevelt, 57-59; res. scientist, HumRRO, George Washington 59-60; res. engr, human factors & psychol, Douglas Aircraft Co, Calif, 60-61; design engr. res. psychol, Martin Co, Fla, 61-62; systs. analyst, Int. Tel. & Tel. Co, 62-63; human factors scientist, Lockheed Calif. Co, 63-66; GROUP LEADER,

TRACOR, INC, SAN DIEGO, 66- U.S.A, 51-55, Res, 55-, Lt. Col. AAAS; Psychol. Asn; Human Factors Soc; Psychomet. Soc. Technology and objective evaluation of training and education; automated programmed learning; social psychology of small groups. Publ: Handbook of human learning, Tracor, 68; Blaisdell-Garceau electronic stimulus-response recorder; co-auth, Unconscious correlates of a sociometric choice. Address: 6767 Neptune Place, La Jolla, Calif. 92037.

BLAISDELL, PROF. THOMAS C(HARLES), JR, b. Pittsburgh, Pa, Dec. 2, 95; m. 21; c. 1. ECONOMICS, POLITICAL SCIENCE. A.B, Pa. State, 16; A.M, Columbia, 22, Ph.D, 32. Indust. soc. worker, int. cmt, YMCA & teacher sociol. & econ, Yenching Univ, 22-25; teacher econ, Columbia, 25-33; asst. dir. consumers couns, agr. adjust. admin, U.S. Dept. Agr, 33-34; exec. dir, consumers adv. bd, Nat. Recovery Admin, 34-35; econ. adv. to adminstr, Resettlement Admin, 35-36; asst. dir, bur. res. & statist, Soc. Security Bd, 36-38; dir. monopoly study, Securities Exchange Cmn, 38-39; asst. dir, Nat. Resources Planning Bd, 39-43; orders & regulations bur, War Prod. Bd, 43-44; chief, Mission Econ. Affairs, Eng, 45-47; dir, Off. Int. Trade, 47-48; act. asst. secy, U.S. Dept. Commerce, 48-49, asst. secy, 49-51; prof. POLIT. SCI, CALIFORNIA, BERKELEY, 51-63, EMER. PROF, 63-, dir. bur. int. rels, 51-63. Consult, UN Tech. Assistance Bd, 65; Soc. Security Admin, Dept. Health, Ed. & Welfare, 67-68. Polit. Sci. Asn. International economics. Publ: Co-auth, Peking rugs and Peking boys & Farm credit in underdeveloped areas; auth, Federal trade commission. Address: 9 Greenwood Common, Berkeley, Calif. 94708.

BLAISE, DR. HANS C(ORNELIS), b. Amsterdam, Netherlands, Feb. 8, 26; U.S. citizen; m. 52; c. 2. ECONOMIC & SOCIAL DEVELOPMENT. B.A, Amsterdam, 51; M.P.I.A, Pittsburgh, 61, Ph.D.(pub.& int.affairs), 64. Prog. dir, Exp. Int. Living, 53-59; exec. dir, Lisle Fel, 59-60; res. assoc. cross-cultural opers, PITTSBURGH, 60-62, instr. econ.& soc. develop, 62-63, asst. prof. econ.& soc. develop.& ed. planning & assoc. res. dir, inter-univ. res. prog. inst. bldg, 63-66, ASSOC. PROF. ECON.& SOC. DEVELOP.& ED. PLANNING, 66-, chief of party univ. develop, Quito, Ecuador, 66-68 & tech. assistance proj, Univ. Malaya, 68- Univ. Pittsburgh res. grant, Cambodia, 62; prin. researcher, Agency Int. Develop. inst. bldg. res. grant, Ecuador & develop. econ. specialist, UNESCO planning mission, functional literacy pilot prog, Venezuela, 65. U.S. del, training course human resource specialists, Orgn. Econ. & Coop. Develop, 64. Soc. Int. Develop; Soc. Pub. Admin; Comp. Ed. Soc. Development of innovative organizations; educational planning; development administration. Publ: Educational planning and development: a literature survey and comment, Int. Develop. Rev, 9/64. Address: Graduate School of Public & International Affairs, University of Pittsburgh, Pittsburgh, Pa. 15213.

BLAKE, DR. DAVID H, b. Long Branch, N.J, June 5, 40; m. 61; c. 3. POLITICAL SCIENCE. A.B, Dartmouth Col, 61; M.B.A. & Noble Found. fel, Pittsburgh, 62; Nat. Defense Ed. Act fel, Rutgers, 63-66, M.A, 66, Ph.D. (polit. sci), 68. Proj. adminstr, pub. rels. dept, Smith Kline & French Labs, 62-63; ASST. PROF. POLIT. SCI, WAYNE STATE, 66- Polit. Sci. Asn; Int. Studies Asn; Acad. Polit. & Soc. Sci. Address: Dept. of Political Science, Wayne State University, Detroit, Mich. 48202.

BLAKE, PROF. JOHN A(MMEN), b. North Augusta, S.C, Feb. 6, 04; m. 34; c. 1. PSYCHOLOGY. A.B, Presby. Col.(S.C), 26; M.A, Hopkins, 33; Maryland, summer 36; Pennsylvania, 40 & summer 38. Soc. worker, Fed. Emergency Relief Authority, 33-35; asst. state supvr. morbidity & mortality in indust, U.S. Pub. Health Serv, 35-36; state supvr. nat. defense in Md, U.S. Govt, 41-43; asst. to mgt. rep, Bethlehem-Fairfield Shipbuilding Div, Bethlehem Steel Co, Md, 43-45; asst. prof. psychol, Richmond, 46-49; clin. psychologist, Cent. State Hosp, Petersburg, Va, 49-50, chief clin. psychologist, 51-56; asst. prof. PSYCHOL, RICHMOND PRFNL. INST, 50-51, 56-64, ASSOC. PROF, 64- Fel. AAAS; Psychol. Asn. Child and adolescent development; psychopathology, including psycho-theology; physiological psychology; history of psychology. Publ: The fourth category of personality needs, Ment. Hyg, 53; Mental hygiene's challenge to education, Psychol. Newsletter, 58; The compatibility of reason and faith, J. Relig. & Health, 64. Address: Richmond Professional Institute, 901 W. Franklin St, Richmond, Va. 23220.

BLAKE, DR. ROBERT R(OGERS), b. Brookline, Mass, Jan. 21, 18; m. 41. PSYCHOLOGY. B.A, Berea Col, 40; M.A, Virginia, 41; Ph.D.(psychol), Texas, 47. Asst. prof. Psychol, Texas, 47-51, assoc. prof, 51-57, prof, 57-64; PRES. ORGN. DEVELOP, SCI. METHODS, INC, 61- U.S.A.A.F, 42-45. AAAS; Psychol. Asn; Acad. Polit. & Soc. Sci; Soc. Group Psychother. & Psychodrama; Int-Am. Soc. Psychol. Personality theory; social psychology of action; management development; organization development and change; industrial management; intercultural relationships; family relationships. Publ: Co-auth, Managing intergroup conflict in industry, 64, The managerial grid, 64 & Corporate excellence through grid organization development, 67, Gulf. Address: Scientific Methods, Inc, Box 195, Austin, Tex. 78767.

BLAKELY, PROF. WILLIAM A(RTHUR), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

BLAKELY, DR. EDWARD JAMES, JR, b. Omaha, Nebr, Dec. 2, 23; m. 46; c. 1. BUSINESS FINANCE. B.S.B.A, Denver, 48, M.B.A, 49; Ph.D.(bus), Texas, 61. Asst. prof, Notre Dame, 49-52; BUS, WISCONSIN, 52-62, assoc. prof, 62-66, PROF, 66-, ASSOC. DEAN SCH. BUS, 67- Instr. Cert Pub. Acct; Acct. Asn. Financial accounting theory. Publ: From the thoughtful tax man, Commerce Clearing House, 11/60; LIFO or LOFI-which?, Acct. Rev, 1/63. Address: School of Business, University of Wisconsin, Madison, Wis. 53706.

BLAKEMORE, GEORGE J(EFFERSON), JR, b. Philadelphia, Pa, Aug. 12, 24. STATISTICS. A.B, George Washington, 49, A.M, 53. Opers. analyst, opers. res. off, Hopkins, 50-57; proj. statistician, Arinc Res. Corp, 57-63; prin. reliability engr, Honeywell Inc, 63-68; RES. SCIENTIST, INSTRUMENTATION LAB, MASS. INST. TECH, 68- U.S.A, 43-46. Statist. Asn; Opers. Res. Soc; Soc. Qual. Control; Inst. Math. Statist; Inst. Aeronaut. & Astronaut. Design and analysis of experiment, sampling, reliability statistics. Publ: On the use of Weibull sampling, plan; Sequential testing based on the Weibull distribution; co-auth, Reliability of semiconductor devices. Address: Apt. 707, 872 Massachusetts Ave, Cambridge, Mass. 02139.

BLAKER, DR. KENNETH EUGENE, b. St. Louis, Mo, Nov. 21, 33; m. 56; c. 2. EDUCATION, PSYCHOLOGY. B.A, Arizona, 58, M.Ed, 60; Ph.D.(ed. psychol), Southern Illinois, 65. ASST. PROF. COUNSELING & GUID, SANTA CLARA, 65- U.S.A, 53-55. Ed. Res. Asn; Psychol. Asn; Personnel & Guid. Asn. Classroom management and observation; behavior modification. Address: Dept. of Education, University of Santa Clara, Santa Clara, Calif. 95053.

BLAKLEY, PROF. LEO V(ERNON), b. Okla, Dec. 14, 20; m. 43; c. 2. AGRICULTURAL ECONOMICS. B.S, Okla. State, 42, M.S, 47; Gen. Ed. Bd. fel, Chicago, 51-52, Ph.D, 61. Asst. economist, OKLA. STATE, 48-49, asst. prof. AGR. ECON, 49-61, assoc. prof, 61-64, PROF, 64- U.S.N.R, 42-45, Lt.(jg). Agr. Econ. Asn. Agricultural prices and policy; dairy and cotton marketing; econometrics; general agricultural economics. Publ: Co-auth, Monthly variations of beef cattle prices in Oklahoma, Okla. Agr. Exp. Sta. Bull, 10/65; auth, Effects of government programs on Southern cotton production since 1945, J. Farm Econ, 12/65; Why not a flat class I pricing of milk nationwide?, Dairy topics for today & tomorrow, 4/67. Address: Dept. of Agricultural Economics, Oklahoma State University, Stillwater, Okla. 74074.

BLALOCK, PROF. HUBERT M, JR, b. U.S, Aug. 23, 26; m. 51; c. 2. SOCIOLOGY. A.B, Dartmouth Col, 49; M.A, Brown, 53; Ph.D, North Carolina, 54. Instr. SOCIOL, Michigan, 54-57, asst. prof, 57-61; assoc. prof, Yale, 61-64; PROF, NORTH CAROLINA, CHAPEL HILL, 64- U.S.N.R, 44-46. Sociol. Asn; Statist. Asn. Race relations; logic of the scientific method; correlation and causality. Publ: Social statistics, McGraw, 60; Causal inferences in nonexperimental research, Univ. North Carolina, 64; Toward a theory of minority group relations, Wiley, 67. Address: Dept. of Sociology, University of North Carolina, Chapel Hill, N.C. 27514.

BLANCH, PROF. GEORGE T(HOMAS), b. West Weber, Utah, Sept. 8, 01; m. 35; c. 3. AGRICULTURAL ECONOMICS. B.S, Utah State, 30, M.S, 31; Ph.D.(farm mgt), Cornell, 41. Asst. farm mgt, Cornell, 31-32, instr. rural econ, 34; land bank appraiser, Fed. Land Bank, Mass, 33; assoc. prof. agr. econ. & mkt, UTAH STATE, 34-46, prof, 47-66, head dept, 52-66, EMER. PROF. AGR. ECON, 66- Agr. Econ. Asn. Farm organization and management; marketing of farm products; economic development of agricultural resources. Address: Dept. of Agricultural Economics, Utah State University, Logan, Utah 84321.

BLANCHARD, ALBERT C(LAUDE), b. Ashville, N.Y, Jan. 8, 07; m. 43; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. B.S, Kentucky, 30; fel. & M.A, Florida, 33. Asst. welfare, Fla. Emergency Relief Admin, 34-36; statistician & researcher, Works Progress Admin, 36-38, state statistician, N.C, 39-41; STAFF DIR. & ANAL. STATISTICIAN DEFENSE PROGS, U.S. DEPT. DEFENSE, 46- U.S.A, 41-46, Lt. Col. Publ: Some aspects of mortality in Florida, 1921-1930, Soc. Forces. Address: 3047 Hazelton St, Falls Church, Va. 22044.

BLANCHARD, PROF. HOWARD L(AWRENCE), b. Bancroft, Iowa, Jan. 14, 09; m. 37; c. 1. PSYCHOLOGY. B.A, State Col. Iowa, 33; M.S, Drake, 36; Ed.D, Colo. State Col, 52. Teacher, pub. schs, Iowa, 28-32, 33-39, v.prin, 39-44, 46-47, dir. dept. guid, ed. res. & testing, 47-60; assoc. prof. ed. psychol. & guid, COLO. STATE COL, 60-64, PROF. PSYCHOL, COUNSELING & GUID, 64-, summers, asst. prof, 53-59. Vis. lectr, Drake, 57-60. U.S.A, 44-46, Sgt. Personnel & Guid. Asn. Measured abilities and classroom success of mentally retarded students; success during freshman college year of 1958 high school graduates; comparison of teachers' marks with an actual battery of aptitude test percentage scores. Publ: Co-auth, Guidance: a longitudinal approach, Burgess, 62, 2nd ed, 68. Address: Dept. of Psychology, Colorado State College, Greeley, Colo. 80631.

BLANCHARD, DR. PHYLLIS (MRS. WALTER W. LUCASSE), Psychol, see 10th ed, Soc. & Behav. Vols.

BLANCHARD, PROF. RALPH H(ARRUB), b. Plympton, Mass, Dec. 3, 90. ECONOMICS. A.B, Dartmouth Col, 11, A.M, 12; Harrison fel, Pennsylvania, 12-13, Ph.D, 16. Asst. econ, Dartmouth Col, 11-12; INS, Wharton Sch. Finance & Commerce, Pennsylvania, 13-15, instr, 15-17; COLUMBIA, 17-20, asst. prof, 20-23, assoc. prof, 23-27, prof, 27-57, EMER. PROF, 57- Ed. dir, Ins. Hartford, Conn, 17-18. Consult, Moreland Act Invest, State Dept. Labor, N.Y, 27-28; Cmt. Study Compensation Automobile Accidents, 29-31; Cmn. Study Financial Responsibility Act, Conn, 35-36; Soc. Security Bd. & Admin, 36-37, 42-55; adv. cmt. fire ins. rates, State Ins. Dept, N.Y, 39-42; U.S. Treas. Dept, 39-53. Ed, McGraw-Hill Ins. Series, 23-58; Dictionary Ins. Terms. Mem. admin. bd, S.S. Huebner Found. Ins. Ed, 41-55; mem. adv. cmt. ins, U.S. War Dept, 41-45; bd. ins. adv, U.S. Dept. Defense, 50-53, consult, 54-65. U.S.A, 18-19, Capt. Econ. Asn; Mgt. Asn.(v.pres. in charge ins. div, 39); Acad. Actuaries; fel. Casualty Actuarial Soc; Soc. Ins. Mgt. Survey of accident and health insurance. Publ: Liability and compensation insurance; co-auth, Insurance; auth, Risk and insurance, Univ. Nebraska, 65. Address: Plympton, Mass. 02367.

BLANCHARD, DR. ROBERT E(UGENE), b. Hutchinson, Kans, Oct. 29, 29; m. 52; c. 3. INDUSTRIAL PSYCHOLOGY. B.S, Ft. Hays Kans. State Col, 56; M.S, Purdue, 58, Ph.D.(indust. psychol), 59. Asst. psychol, Purdue, 57-59; assoc. psychologist HUMAN FACTORS RES, DUNLAP & ASSOCS, INC, 59-63, sr. psychologist, 63-67, CHIEF SCIENTIST, 67- Psychol. Asn; Human Factors Soc. Design of complex systems toward optimum utilization of mans capabilities in machine relationships; man in his industrial environment in terms of his aptitudes, abilities, motivation and morale. Publ: Farm tenant selections: an objective method; Effect of hue, brightness and saturation on color preference; Factorial study of labor arbitration cases. Address: 1454 Cloverfield Blvd, Santa Monica, Calif. 90404.

BLANCHARD, DR. ROBERT JOSEPH, Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BLANCHARD, DR. WILLIAM H(ENRY), b. St. Paul, Minn, Mar. 25, 22; m. 47; c. 1. CLINICAL PSYCHOLOGY. B.S, Iowa State Col, 44; Ph.D.(psychol),

Southern California, 54. Shift chemist, Goodrich Chem. Co, 46-47; clin. psychol. trainee, Vet. Admin. Hosp, 50-54; clin. psychologist in charge res. & intern training, Youth Authority, Calif, 54-57; HUMAN FACTORS SCIENTIST, SYST. DEVELOP. CORP, 57- U.S.M.C, 44-45. AAAS; Psychol. Asn; Soc. Psychol. Study Social Issues. Epistemology; juvenile delinquency; philosophy and history of science. Publ: Rousseau and the spirit of revolt, Univ. Michigan, 67; Intellectual inhibition and the search for scientific truth, J. Soc. Psychol; Ce que l'incident diplomatique de l' U-2 nous enseigne de la mythologie national, du caractère national et de politique national des Etates-Unis, Rev. Psychol. des Peuples. Address: 4307 Rosario Rd, Woodland Hills, Calif. 91364.

BLAND, DR. RICHARD P, Math. Statist, see 11th ed, Phys. & Biol. Vols.

BLANE, DR. HOWARD T(HOMAS), b. De Land, Fla, May 10, 26; m. 58. PSYCHOLOGY. A.B, Harvard, 50; scholar, Clark, 50-51, A.M, 51, Ph.D.(psychol), 57. Psychologist, Mass. Gen. Hosp, 53-54; Children's Med. Center, 54-56; asst. psychologist, RES. & CLIN. SUPV, MASS. GEN. HOSP, 56-61, ASSOC. PSYCHOLOGIST, 61- Asst, Simmons Col, 56-58; instr, med. sch, Harvard, 57-61, res. assoc, 61-65, assoc, 65- Consult, Robert Breck Brigham Hosp, 56-57; Neurosurgical Found, 58-63; div. legal med, Mass. Dept. Ment. Health, 61-63; Mem. Hosp, North Conway, N.H, 63-66. U.S.A, 44-46. Psychol. Asn. Pre-alcoholic personality structure; juvenile delinquency; cross cultural patterns of sex role identity and dependency. Publ: The personality of the alcoholic guises of dependency, Harper, 68; co-auth, Acute psychiatric services in the general hospital, I, II & III, Am. J. Psychiat, 66-67 & Doctor's voice: postdictor of successful referral of alcoholic patients, J. Abnorm. Psychol. 67. Address: 44 Fayette St, Boston, Mass. 02116.

BLANK, PROF. BLANCHE DAVIS, b. New York, N.Y, May 26, 23; m; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Hunter Col, 44; M.A, Syracuse, 45; Ph.D.(Am. polit. inst, pub. finance), Columbia, 51. Res. assoc. local govt, Tax Found, 45-46; lectr. Am. govt, City Col. New York, 46-49; pub. admin, New Sch. Soc. Res, 50-53; instr. AM. GOVT, HUNTER COL, 54-59, asst. prof, 60-63, assoc. prof, 63-67, PROF, 68- Nat. Sci. Found. res. grant, 66-68. Consult, New York Dept. Personnel, 60- Exec. dir, Mayor's Task Force on City Personnel, 66; mem, urban res. center, Hunter Col. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. Sci. Regulatory licensing; New York politics; comparative administration. Publ: The battle of bureaucracy, The Nation, 12/66; The measurement of national bureaucracies, an occasional paper, Comp. Admin. Group, Indiana, 65. Address: Dept. of Political Science, Hunter College, 695 Park Ave, New York, N.Y. 10021.

BLANK, DR. DAVID M(ORDECAI), b. New York, N.Y, Jan. 18, 21; m. 49; c. 1. ECONOMICS. A.B, Columbia, 41, Ph.D.(econ), 50. Assoc. economist, Off. Price Admin, 41-42, 46; asst. econ, grad. sch. bus, Columbia, 47-51, lectr, sch. gen. studies, 55, real estate, grad. sch. bus, 59-60; res. assoc, Inst. Urban Land Use & Housing Studies, 50-54; collab, Nat. Bur. Econ. Res, 54-55; assoc. econ. adv, COLUMBIA BROADCASTING SYST, 55-58, dir. econ. anal, 58-65, chief econ. & dir. econ. anal, 65-66, V.PRES. ECON. & RES, 66- Lectr, grad. sch. pub. admin, N.Y. Univ, 55-58. Mem. exec. cmt, Advert. Res. Found, 68- Sig. C, 43-46. Econ. Asn; Statist. Asn; Asn. Bus. Econ. Economics of the broadcasting industry; advertising industry. Publ: Co-auth, Demand and supply of scientific personnel & Capital formation in residential real estate; Cyclical behavior of national advertising, J. Bus. Address: Columbia Broadcasting System, 51 W. 52nd St, New York, N.Y. 10019.

BLANK, DR. LEONARD, b. May 10, 27; m. 54; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 49, M.A, 52; Ph.D, N.Y. Univ, 55. Intern, State Dept. Ment. Hyg, N.Y, 53-54; trainee, Vet. Admin, Calif, 55-57; clin. psychologist, San Francisco Adult Guid. Center, 57; dir. psychol. & asst. prof, sch. med, Stanford, 57-59, asst. prof. psychiat, 59-61; dir. psychol. training, N.J. Dept. Insts. & Agencies, 61-65; ASSOC. PROF. PSYCHOL, GRAD. SCH. ED, RUTGERS, 65- Vet. Admin. fel, Stanford; dir, Rutgers Summer Seminar Interactional Processes. Consult, student health center, Princeton, 62-; Peace Corps, 65; Upward Bound Proj, 67- Cert. in clin. psychol, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Publ: Co-auth, Sourcebook for training in clinical psychology, Springer Pub, 64; auth, Psychological evaluations in psychotherapy: ten case histories, 65 & Looking and showing behavior: studies in dress, undress and body image, 67, Aldine. Address: 4 Rumson Rd, Kendall Park, N.J. 08824.

BLANK, DR. MARION, b. New York, N.Y, Dec. 20, 33; m. 55; c. 2. CHILD PSYCHOLOGY. B.A, City Col. New York, 55, Dept. Ed. fel, 55-56, M.S, 56; Pinsent Darwin fel, Cambridge, 57-59, U.S. Pub. Health Serv. fel, 59, fel, 60-61, Ph.D.(psychol), 61. Teaching asst. psychol, California, Berkeley, 56; remedial reading clinician, community counseling center, Brooklyn Col, 56-57; psychologist, Voc. Adv. Serv, N.Y, 57; clin. psychologist, Child Psychiat. Clin, Cambridge, Eng, 57-58; ASST. PROF. PSYCHOL, ALBERT EINSTEIN COL. MED, 62- Career develop. award, U.S. Pub. Health Serv, 65- Psychol. Asn; Soc. Res. Child Develop. Cognitive development, particularly language skills in young children. Publ: The mother's role in infant development, J. Am. Acad. Child Psychiat, 64; co-auth, Cross-modal transfer in nursery school children, J. Comp. Physiol. Psychol, 64; auth, Experimental approaches to concept development, In: An introduction to educational psychology, (in press). Address: Dept. of Psychology, Albert Einstein College of Medicine, Bronx, N.Y. 10461.

BLANK, DR. UEL, b. Prairie Home, Mo, Apr. 26, 21; m. 50; c. 2. ECONOMICS, SOCIOLOGY. B.S, Missouri, 42; M.S, Minnesota, 50; Ph.D.(pub. policy agr. econ, sociol, polit. sci), Mich. State, 61. Prod. chemist, U.S. Rubber Co, 42-43; county exten. agent, Missouri, 46-53, exten. economist, 54-61; exten. specialist, Int. Coop. Admin, Mid. East, 53-54; dist. exten. dir, Mich. State, 61-62, assoc. dir, inst. community develop, 62-66; RESOURCE ECONOMIST, MINNESOTA, ST. PAUL, 66- U.S.N, 43-46, Lt.(jg). Farm Econ. Asn; Econ. Asn; Adult Ed. Asn. Dynamics of decision-making in regional economic and social development; research of demand and supply mechanisms related to recreation, tourism, travel and leisure phenomena. Publ: Co-auth, Guidelines for growth of tourism—recreation in Michigan's upper peninsula, Mich. State Univ, 66. Address: Dept. of Agricultural Economics, University of Minnesota, St. Paul, Minn. 55101.

BLANKENHEIMER, BERNARD, b. New York, N.Y, July 6, 20; m. 43; c. 2. ECONOMICS. B.A, Brooklyn Col, 41; N.Y. Univ, 41-42; M.A, George Washington, 50. With U.S. DEPT. COMMERCE, 45-50, supvry. int. trade economist, bur. for. commerce, 50-53, chief, African Sect, Africa-Near E. Div, 53-61, DIR. AFRICA DIV, BUR. INT. PROGS, 62- Lectr, sch. adv. int. studies, Hopkins & Howard. Dir, U.S. Trade Mission to Ghana, Guinea, Liberia & Sierra Leone, 60, E.Africa, 63; adv, U.S. Del, 22nd session, Gen. Agreement Tariff Trade, Geneva, 3/65; mem, U.S. Observer Del, symp. industrialization, UN Econ. Cmn. Africa, Cairo, 66; 9th sr. seminar foreign policy, Foreign Serv. Inst, U.S. Dept. State, 66-67. Meritorious serv. award, U.S. Dept. Commerce, 60. U.S.A, 42-45. Fel. African Studies Asn; fel. Royal Geog. Soc. African economic affairs, trade, investment and economic development. Publ: Investment in Nigeria, 60 & contrib, Africa: sales frontier for U.S. business 63, U.S. Dept. Commerce; contrib, Management looks at Africa, In: ed, J.W. Blood, Changing structure of African economics, Am. Mgt. Asn, 66. Address: 9508 Wadsworth Dr, Bethesda, Md. 20034.

BLANKENSHIP, DR. ALBERT B, b. Lancaster, Pa, Aug. 21, 14; m; c. 2. PSYCHOLOGY. A.B, Franklin & Marshall Col, 35; A.M, Oregon, 36; Ph.D. (psychol), Columbia, 40. Asst, Psychol. Corp, N.Y, 37-39; res. dir, Hartwell, Jobson & Kibbee, 39-40; Rockefeller fel, 40-41; dir. res, N.W. Ayer & Son, Inc, Pa, 41-44; managing dir, Nat. Analysts, Inc, 44-48; pres, A.B. Blankenship & Assocs, Inc, 48-51; sr. res. assoc, Stewart, Dougall & Assoc, 51-52; res. mgr, Young & Rubicam, Inc, 52-55; v.pres. & res. dir, Ted Bates & Co, Inc, 55-56; v.pres, Blankenship, Gruneau Res. Ltd, 56-61; Canadian Fact Ltd, 61-62, DIR. MKT. RES, Carter Prod. Div, 62-66, CARTER-WALLACE INC, 66- From lectr. to assoc. prof, Temple, 44-51; adj. prof, N.Y. Univ, 54-56. Fel. Psychol. Asn; Mkt. Asn; Mkt. Res. Coun. Publ: Ed, How to conduct consumer and opinion research; co-auth, Marketing: an introduction & Marketing research management, Am. Mgt. Asn, 65. Address: Carter-Wallace, Inc, 2 Park Ave, New York, N.Y. 10016.

BLANKENSHIP, DR. LLOYD VAUGHN, b. St. Johns, Ariz, Dec. 15, 34; m. 56; c. 4. POLITICAL SCIENCE, SOCIOLOGY. B.A, California, Berkeley, 56; fel, Cornell, 60-61, Ph.D.(polit. sci, sociol), 62. Lectr. pub. admin, grad. sch. bus. & pub. admin, Cornell, 58-60; asst. prof. orgn. theory, California, Berkeley, 62-67; ASSOC. PROF. POLIT. SCI, STATE UNIV. N.Y. BUFFALO, 67- AAAS; Polit. Sci. Asn; Sociol. Asn. Research and publishing in areas of community power structure; administrative behavior; science and public policy. Publ: NASA and the scientific community, Odyssey, 68; Community power and organizational effectiveness, In: Men at the top, Oxford Univ, 64; co-auth, Organizational structure and managerial decision-making, Administrative Sci. Quart, 68. Address: Dept. of Political Science, State University of New York at Buffalo, Buffalo, N.Y. 14214.

BLANKENSHIP, DR. WARREN M, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BLANKERTZ, DR. DONALD F(REDERIC), b. Monroe, Mich, Dec. 6, 12. MARKETING. A.B, Michigan, 34, M.B.A, 35, Ph.D, 42. Instr, sch. bus, Indiana, 37-41; lectr. MKT, WHARTON SCH. FINANCE, PENNSYLVANIA, 41-42, assoc. prof, 46-52, PROF, 52-, DIR. GRAD. DIV, 53-, V.DEAN, 58- Mkt. Asn. Marketing research; theory of nonprofit cooperation; cooperative marketing. Publ: Cases and problems in marketing research. Address: E-108 Dietrich Hall, Wharton School of Finance & Commerce, University of Pennsylvania, Philadelphia, Pa. 19104.

BLANKSTEN, PROF. GEORGE I(RVING), b. Chicago, Ill, Sept. 19, 17; m. 50. POLITICAL SCIENCE. A.B, Chicago, 39, A.M, 40; scholar, Havana, 47; U.S. Dept. State exchange fel, Ecuador, 48; Ph.D, California, Los Angeles, 49. Instr. polit. sci. & hist, pub. jr. cols, Chicago, 40-42; polit. analyst to U.S. Coordinator Inter-Am. Affairs, 43-45; U.S. Dept. State, 45-46; instr. POLIT. SCI, NORTHWESTERN, 47-50, asst. prof, 50-52, assoc. prof, 52-57, PROF, 57- Soc. Sci. Res. Coun. area res. training fel, Argentina, 50-51; res. assoc, Nat. Planning Asn, 53-55. Polit. Sci. Asn; Soc. Int. Law. Latin-American political problems; international relations. Publ: Ecuador: constitutions and Caudillos; Peron's Argentina. Address: Dept. of Political Science, Northwestern University, Evanston, Ill. 60201.

BLANTON, PROF. RICHARD L(INN), b. Arab, Ala, July 3, 19; m. 50; c. 3. PSYCHOLOGY. B.A, Birmingham-South. Col, 42; M.A, Iowa, 50; fel, Vanderbilt, 50-52, Ph.D.(psychol), 52. Trainee psychol, Vet. Admin. Hosp, Lexington, Ky, 52-54; instr, Kentucky, 53-54, ASSOC. PROF. PSYCHOL, 54-62; VANDERBILT, 62- Consult, Vet. Admin; U.S. Pub. Health Serv. U.S.A.A.F, 42-45. Psychol. Asn. Personality theory; language and symbolic behavior; memory; disabilities. Address: Dept. of Psychology, Vanderbilt University, Nashville, Tenn. 37203.

BLASE, DR. MELVIN G, b. St. Charles, Mo, May 15, 33; m. 54; c. 2. ECONOMICS. B.S, Missouri, 55, M.S, 56; Ph.D, Iowa State, 60. Asst. econ, Mo. Farmers Asn, 52-55; agr. econ, Missouri, 55-56; agr. economist, U.S. Dept. Agr, 56-60; res. adv. mil. logistics, sch. logistics, inst. tech, Air Univ, 60-63; asst. prof. agr. econ, Iowa State Univ. Mission to Peru, 63-65; ASSOC. PROF. AGR. ECON. & LEADER INT. PROGS, AGR. ECON. DEPT, MISSOURI, COLUMBIA, 65- Instr, night sch. prog, Miami (Ohio), 61-62; Wittenberg, 61-62. Res. consult, Iowa State Univ, 61. AAAS; Econ. Asn; Agr. Econ. Asn; Planning Asn. Economics of national security and natural resource development and conservation. Publ: Factors in the farm real estate market, Iowa Farm Sci, 11/60; Conservation and agricultural adjustment: competitive or complimentary?, J. Farm Econ, 12/60; Soil erosion control in Western Iowa: progress and problems, Iowa State Res. Bull. Address: Dept. of Agricultural Economics, 200 Mumford Hall, University of Missouri, Columbia, Mo. 65201.

BLASER, DR. ARTHUR F(REDERICK), JR, b. Cleveland, Ohio, Sept. 29, 08; m. 39. ECONOMICS. Ph.B, Yale, 29; M.B.A, Harvard, 32; Ph.D.(econ), Columbia, 41. From instr. to asst. prof, Rensselaer Polytech, 35-42; civil serv. exam, U.S. Civil Serv. Cmn, 42-45; financial analyst, U.S. Treas. Dept, D.C, 45-46, asst. treas. rep, Eng, 47-48, economist, D.C, 48-56, 63-65; FINANCIAL ATTACHE, U.S. EMBASSY, Tokyo, Japan, 56-63; BONN, W.GERMANY, 65- Econ. Asn. Monetary policy; commercial banking;

corporate finance. Publ: Federal reserve bank of Cleveland. Address: American Embassy, Box 360, APO New York 09080.

BLASIER, PROF. COLE, b. Jackson, Mich, Mar. 16, 25; m. 47; c. 2. POLITICAL SCIENCE. B.A, Illinois, Urbana, 47; cert. & M.A, Columbia, 50, Ph.D. (int. rels), 55. For. serv. officer, U.S. Dept. State, Bonn, Belgrade & Moscow, 51-60; exec. asst. to pres, Colgate, 60-63; Rockefeller Found. vis. prof, Valle, Colombia, 63-64; PROF. POLIT. SCI. & DIR. CENTER LATIN AM. STUDIES, PITTSBURGH, 64- U.S.N.R, 43-46, Lt.(jg). Polit. Sci. Asn; Latin Am. Studies Asn. International relations, especially eastern Europe and Latin America. Publ: Chile in transition, Pub. Affairs, 66; ed, Constructive change in Latin America, Univ. Pittsburgh, 68. Address: Center for Latin American Studies, University of Pittsburgh, Pittsburgh, Pa. 15213.

BLASINGHAM, DR. EMILY JANE, b. Marion, Ind, Apr. 24, 26. ANTHROPOLOGY. B.A, DePauw, 48; M.A, Indiana, 53, Ph.D, 56. Res. asst. ethnohist, Indiana, 53-60; asst. prof. ANTHROP, Nebraska, 61-63; Loyola (Ill), 63-66, assoc. prof, 66-67; CURATOR, ILL. STATE MUS, 67- Anthrop. Asn; Soc. Archaeol; Ethnol. Soc; Ethnohist. Soc. Ethnohistory of the southern Great Lakes Region; archaeology of the middle Mississippi and Ohio drainage. Publ: The Miami prior to the French and Indian War & The depopulation of the Illinois, 56, Ethnohistory. Address: 1107 W. Maple Ave. S, Springfield, Ill. 62704.

BLASS, WALTER P(AUL), b. Dinslaken, Germany, Mar. 31, 30; nat; m. 54; c. 3. ECONOMICS. B.A, Swarthmore Col, 51; Princeton, 51-52; M.A, Columbia, 53. Asst. Laos-Cambodia desk officer, admin. for. aid prog, Int, Coop. Admin, D.C, 57-58; gen. mgr, R.B. Blass Co, N.J, 58-61; ECONOMIST, AM. TEL. & TEL. CO, 61- Consult, African Econ. Training Prog, UN, 60-65. Country dir, Peace Corps, Kabul, Afghanistan, 66-68. U.S.N, 53-56, Lt.(jg). Am. Econ. Asn; Nat. Asn. Bus. Econ; Royal Econ. Soc. Industrial organization; government and business; economic development; international economics. Publ: Steel mills for developing economies: tools or monuments?, Soc. & Econ. Studies; Economic planning—European style, Harvard Bus. Rev, 9/63; European common market, Bell Tel. Mag, summer 64. Address: c/o G. V. Downing, Skyline Drive, Martinsville, N.J. 08836.

BLATT, DR. BENJAMIN, b. New York, N.Y, Oct. 12, 13; m. 40; c. 2. CLINICAL PSYCHOLOGY. Ph.D.(psychol), N.Y. Univ, 49. CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, BRONX, 46-51, 52- U.S.A, 43-46, 51-52. Psychol. Asn. Aphasia; neuropsychology; psychosomatic problems. Publ: Thinking behavior as related to the language dysfunction of aphasic patients; The problem of language localization into specific brain areas; Personality structure of the multiple sclerosis patient as evaluated by the Rorschach psychodiagnostic technique. Address: 43 Beaumont Circle, Yonkers, N.Y. 10710.

BLATT, DR. EVA FISHELL, Psychol, see LICHTENBERG, DR. EVA FISHELL.

BLATT, PROF. SIDNEY JULES, b. Philadelphia, Pa, Oct. 15, 28; m. 51; c. 3. PSYCHOLOGY. B.S, Pa. State, 50, M.S, 52; Ph.D, Chicago, 57. U.S. Pub. Health Serv. fel, Michael Reese Hospital, Chicago, Ill, 57-59, psychologist, 59-60; asst. prof. psychol, YALE, 60-65, ASSOC. PROF. PSYCHOL. & PSYCHIAT, 65-, CHIEF CLIN. PSYCHOL, SCH. MED, 63- Found. Fund Res. Psychiat. fel, 61-65. Consult, Vet. Admin, 61-; Fairfield Hills State Hosp, 63-66; Conn. Valley State Hosp, 64-66. Mem. res. fel. panel, Nat. Inst. Ment. Health, 66-, Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 62. Psychol. Asn. Ego psychology; cognitive processes. Publ: Efficiency in problem solving, J. Psychol; Cardiac arousal during complex mental activity, J. Abnorm. & Soc. Psychol; Psychopathology of adolescence, Arch. Gen. Psychiat. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06525.

BLATZ, PROF. W(ILLIAM) E(MET), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

BLAU, DR. BENAMI, b. New York, N.Y, Sept. 22, 24; m. 46; c. 1. PSYCHOLOGY. Ph.D.(psychol), Pa. State, 51. Clin. psychol. trainee, Vet. Admin, 51-52; acting chief human eng. lab, ord. corps, U.S. Dept. Army, 52-53, dir, 53-57; mgr. human factors eng. dept, INT. BUS. MACH. CORP, 57-61, acoustics lab, 59-61, mem. prfnl. staff, supplies div, prod. develop. lab, 61-63, acting mgr, 63, mgr, micro-processing prog. planning, 64-65, sr. tech. asst, process tech, systs. mfg. div, 65, mgr, mgt. develop, 65-66, plant ed. & mgt. develop, 66-67, DIR, PERSONNEL DEVELOP, DATA PROCESSING GROUP STAFF, 67- U.S.A, 43-45. Psychol. Asn. Perception; administration of research; industrial education; management training; management selection. Address: Carolyn Way, Somers, N.Y. 10589.

BLAU, PROF. PETER M(ICHAEL), b. Vienna, Austria, Feb. 7, 18; nat; m. 48; c. 1. SOCIOLOGY. A.B, Elmhurst Col, 42; Soc. Sci. Res. Coun. fel, Columbia, 48-49, Ph.D.(sociol), 52. Instr. SOCIOL, Wayne, 49-51; Cornell, 51-53; asst. prof, CHICAGO, 53-58, assoc. prof, 58-63, PROF, 63- Fel, Center Adv. Studies Behav. Sci, 62-63; Pitt prof. Am. hist, Cambridge, 66-67. U.S.A, 43-45. Sociol. Asn.(ed, Am. J. Sociol, 61-66); Soc. Study Social Probs. Formal organization; social stratification; small groups. Publ: Dynamics of bureaucracy, Univ. Chicago, 55, rev. ed, 63; Exchange & power in social life, 64 & co-auth, American occupational structure, 67, Wiley. Address: Dept. of Sociology, University of Chicago, 1126 East 59th St, Chicago, Ill. 60637.

BLAU, DR. THEODORE H, b. Huntington, W.Va, Mar. 3, 28; m. 50; c. 2. CLINICAL PSYCHOLOGY. B.S. & M.S, Pa. State, 49, fel, 50-51, Ph.D.(clin. psychol), 51. Res, Vet. Admin. Hosp, Perry Point, Md, 51-52; dir. clin. serv. & v.pres, Byron Harless & Assocs, 53-59; private practice, 59- Adj. prof, South Florida, 63-; pres, Programmed Instr, Inc, 63- Consult, Anclote Manor Neuropsychiat. Hosp, Tarpon Springs, Fla, 53-59, dir. res, 54-59; consult, Fla. Crippled Childrens Cmn. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F, 45-47. Psychol. Asn; Soc. Proj. Tech. Evaluation of personality; process of psychotherapy; personality and learning theory; programmed instruction and automated learning centers. Publ: Private practice in clinical psychology; Spiral aftereffect test as a predictor, J. Consult. Psychol. Address: 543 Ladrone Ave, Tampa, Fla. 33606.

BLAU, DR. ZENA S(MITH), b. New York, N.Y, Aug. 4, 22; m. 48; c. 1. SOCIOLOGY. A.B, Wayne State, 43, M.S.W, 46; fel, Cornell, 53-54; Ph.D.(sociol), Columbia, 57. Instr. SOCIOL, Adelphi Col, 48-49; spec. instr, Wayne State, 50-52; res. assoc, dept. child develop. & family rel, Cornell, 52-53; nat. opinion res. center, Chicago, 56; lectr, sch. soc. work, Smith Col, 57-58; instr, col. nursing, Illinois, 58-60, asst. prof, 61-65; SR. RES. ASSOC, INST. JUVENILE RES, 65- Lectr, Chicago, 67; prin. investr, Dept. Health, Ed. & Welfare res. grant, 67. Am. Sociol. Asn. rep, proj. cmt, Nat. Cmt. Aging, 59. Sociol. Asn; Soc. Study Social Probs. Sociological aspects of aging; mass communications research; flow of information and influence regarding child rearing. Publ: Structural constraints on friendships in old age, Am. Sociol. Rev, 6/61; Exposure to child rearing experts: a structural interpretation of class-color differences, Am. J. Sociol, 5/64; Class structure, mobility, and change in child rearing, Sociometry, 6/65. Address: 5737 South Dorchester, Chicago, Ill. 60637.

BLAUG, PROF. M(ARK), b. The Hague, Netherlands, Apr. 3, 27; nat; m. 54; c. 1. ECONOMICS. Ph.D.(econ), Columbia, 55. Reader ECON. OF ED, INST. ED, LONDON, 63-68, PROF, 68- Guggenheim fel, 58-59; Soc. Sci. Res. Coun. fel, 62-63; consult, Orgn. Econ. Coop. & Develop, Int. Bank Reconstruct. & Develop, UNESCO & London Sch. Econ, 63- Am. Econ. Asn; Royal Econ. Soc. Economic theory and history; comparative economic systems; economics of education. Publ: Economic theory in retrospect; Economics of education: a selected annotated bibliography, Pergamon, 66; co-auth, The utilization of educated manpower in British industry, Oliver & Boyd, 67. Address: University of London, Institute of Education, 45 Russell Square, London, W.C. 2, Eng.

BLAUNER, DR. ROBERT, b. Chicago, Ill, May 18, 29; m. 50, 62; c. 2. SOCIOLOGY. A.B, Chicago, 48, M.A, 50; Soc. Sci. Res. Coun. fel, California, Berkeley, 60-61, Ph.D.(sociol), 62. Asst. prof. SOCIOL, San Francisco State Col, 61-62; Chicago, 62-63; lectr, CALIFORNIA, BERKELEY, 63-64, asst. prof, 64-67, ASSOC. PROF, 67- Nat. Inst. Ment. Health res. grant, 67- Consult, Calif. State Cmn. on Los Angeles Riots, 65-; Off. Econ. Opportunity, 66- Soc. Asn. Race relations; industrial sociology; death and society. Publ: Alienation and freedom, Univ. Chicago, 64; Death and social structure, Psychiatry, 66; Whitewash over Watts, Trans-Action, 67. Address: Dept. of Sociology, University of California, Berkeley, Calif. 94707.

BLAUSTEIN, SAUL J(OSEPH), b. New York, N.Y, July 30, 24; m. 49; c. 2. ECONOMICS. B.S.S, City Col. New York, 48; Southern California, N.Y. Univ; California, Los Angeles; George Washington. Price economist, bur. labor statist, U.S. Dept. Labor, 51-55, from soc. ins. res. analyst to asst. dir. prog. res, unemploy. ins. serv, bur. employ. security, 55-67; MEM. SR. STAFF, W.E. UPJOHN INST. EMPLOY. RES, 67- Assoc, George Washington, 54-56. U.S.A, 43-45. Indust. Rels. Res. Asn. Unemployment; social insurance. Publ: Income maintenance during unemployment, J. Marriage & Family Living, 8/58; The challenge facing the unemployment insurance system, Monthly Labor Rev, 3/61; Temporary disability insurance programs, Unemploy. Ins. Rev, 10/67. Address: W.E. Upjohn Institute for Employment Research, Suite 905, 1101 17th St. N.W, Washington, D.C. 20036.

BLAUT, DR. JAMES MORRIS, b. New York, N.Y, Oct. 20, 27; m. 64. AGRICULTURAL GEOGRAPHY, CULTURAL ECOLOGY. Ph.B, Chicago, 48, B.Sc, 50; cert, Imp. Col. Trop. Agr, B.W.I, 49-50; M.Sc, La. State, 54, Ph.D, 58. Instr. geog, Univ. Malaya, 51-53; from instr. to asst. prof, Yale, 56-61; field dir. inter-Am. prog. adv. soc. sci. training, Pan-Am. Union-Orgn. Am. States, Puerto Rico, 61-63; consult. agr. res, Govt. Venezuela, 63-64; soc. sci. res, UNESCO, Dominican Repub, 64-65; dir. Caribbean Res. Inst, Col. Virgin Islands, 65-66; PROF. GEOG, CLARK, 66- Nat. Sci. Found. & Am. Coun. Learned Socs. res. & travel grants; dir, Singapore Agr. Surv, 51-53; vis. asst. prof. dept. agr. econ, Cornell, 60. Summers, instr, La. State, 56; dir, High Sch. Geog. Inst, Virgin Islands, 65, Brazil, 68. Cor. mem, humid tropics cmn, Int. Geog. Union, 59-, specialist regional planning, Orgn. Am. States-UN Mission to Peru, 59. Participant, Pan-Am. Union Seminar on Plantations, P.R, 57; symp. humid tropics veg. & man, UNESCO, Australian New Guinea; del. tech. conf, Int. Union Conserv, Greece, 58. U.S.A, 54-56. AAAS; Anthrop. Asn; Asn. Am. Geog; Geog. Soc; Soc. Ethnomusicol. Cultural geography and economics of peasant agriculture, especially in Malaysia and the Caribbean; philosophy of social science; cultural ecology; environmental cognition. Publ: Economic geography of a one-acre farm in Singapore, J. Trop. Geog; Cultural determinants of soil erosion in Jamaica, Soc. & Econ. Studies, Nature and effects of shifting agriculture, Proc. UNESCO Symp. Address: Dept. of Geography, Clark University, Worcester, Mass. 01610.

BLAWIE, DR. JAMES L(OUIS), b. Newark, N.J, Mar. 26, 28; m. 52; c. 3. POLITICAL SCIENCE, LAW. B.A, Connecticut, 50; fel. & A.M, Boston, 51, fel. & Ph.D.(polit. sci), 59; scholar & J.D, Chicago, 55. Instr. polit. sci. & res. grant, govt. res. bur, Mich. State, 56; assoc. prof. econ, Kent State, 56-57; assoc. ed. & legal res. analyst, state constitutional proj, Legis. Drafting Res. Fund, law sch, Columbia, 57-58; acting asst. prof. bus. law, California, 58-60; ASSOC. PROF. LAW, SANTA CLARA, 60-, LECTR. BUS. LAW, GRAD. SCH. BUS, 66- Assoc. prof, Akron, 56-57; contract indexer, State Law Revision Cmn, Calif, 60-61; Legis. Drafting Res. Fund, Columbia, 61; part-time vis. lectr, Calif. State Col. Hayward, 67- Private practice, 57, 65- Mem, round table local govt. law, Am. Asn. Law Schs, 64-; trustee & v.pres. bd, Washington Twp. Hosp. Dist, Calif, 64- Judge Advocate Gen.C, U.S.A.R, 66-, Maj. Bar. Asn; Soc. Pub. Admin; Trial Lawyers Asn. Public law and administration; American governments; state constitutions; property law; judicial dissent; municipal home rule. Publ: Co-auth, The Michigan township board: its powers and duties, Town vs. state: interposition and secession in New England, J. Pub. Law & The judicial decision: a second look at certain assumptions of behavioral research, West. Polit. Quart, 9/65. Address: 41752 Marigold Dr, Fremont, Calif. 94518.

BLAWIE, PROF. MARILYN-JUNE, b. Danbury, Conn, Apr. 11, 30; m. 52; c. 3. POLITICAL SCIENCE, LAW. B.A, Connecticut, 52; Rotary Int. Found. fel, London Sch. Econ, 52-53; summer, Swedish Rotary Club & univ. scholars, Lund, Sweden, 52; Beecher scholar, Chicago, 53-55, J.D, 55. Researcher & librr. off. press rels, Chicago, 53-55; asst. news ed, dept. info. servs, univ. news

bur, Mich. State, 56; instr, Hammel-Actual Bus. Univ, Ohio, 57; assoc. ed. & legal res. analyst, state constitutional law proj, Legis. Drafting Res. Fund, law sch, Columbia, 57-59, 61-62; asst. prof. POLIT. SCI, CALIF. STATE COL. HAYWARD, 59-62, assoc. prof, 62-66, PROF, 66- Calif. State Dept. Ed. Bill of Rights proj. grants, 67. Asst. prof, exten, California, 60; summers, private practice, Conn, 57; contract indexer, State Law Revision Cmn, Calif, 60-61. Govt. adv. & asst. personnel counsr, Buckeye Personnel Serv, Ohio, 56-57; consult, Calif. State Dept. Ed. & Bay Area Social Studies Coun, 66-67. Trustee, Fremont-Newark Jr. Col. Dist, 65-67. Polit. Sci. Asn; Law & Society Asn. Analysis, revision and reform of state constitutions; legal and constitutional status of local government units; state law revision commissions; public law; judicial dissent; community politics; legal problems as related to the poor. Publ: Co-auth, Michigan township board: its powers and duties; Town vs. state: interposition and secession in New England, J. Pub. Law; Judicial decision: a second look at certain assumptions of behavioral research, West. Polit. Quart, 9/65. Address: 41752 Marigold Dr, Fremont, Calif. 94518.

BLAYLOCK, DR. JOHN JOSEPH, b. Little Rock, Ark, Oct. 19, 33; m. 54; c. 2. CLINICAL PSYCHOLOGY. B.A, Baylor, 55, M.A, 56; Ph.D, Iowa, 60. Clin. psychologist, Ment. Health Inst, Cherokee, Iowa, 56-57, Mt. Pleasant, 59-61; ment. health serv, Hawaii State Dept. Health, 61-65; chief psychologist, Diamond Head Ment. Health Center, 65-66; CHIEF, MENT. HEALTH TEAM FOR COURTS & CORRECTIONS, 66- Asst. prof. psychol, Parsons Col, 60-61; prof, Maunaolu Jr. Col, 61-; lectr, Hawaii, 65- Psychol. Asn. Criminology and behavior modification. Publ: Prediction of academic success at Baylor University; Verbal conditioning of psychopathic and non-psychopathic subjects. Address: Mental Health Team for Courts & Corrections, 550 Makapuu Ave, Honolulu, Hawaii 96816.

BLAYTON, PROF. J(ESSE) B(EE), SR, Acct, see 10th ed, Soc. & Behav. Vols.

BLEDSOE, PROF. ERNESTINE, b. Ft. Valley, Ga, Jan. 16, 12. PSYCHOLOGY, EDUCATION. A.B, Wesleyan Col, 33; M.Ed, Georgia, 47; Ed.D.(guid), Columbia, 53. Teacher, high sch, 45-47; asst. prof. guid, col. ed, Georgia, 47-54; PROF. ED. PSYCHOL, WESLEYAN COL, (GA), 54- Developmental psychology; teacher education; guidance. Address: Dept. of Education, Wesleyan College, Macon, Ga. 31201.

BLEDSOE, PROF. JOSEPH C(ULLIE), b. Carrollton, Ga, Sept. 16, 18; m. 48; c. 2. EDUCATIONAL PSYCHOLOGY. Jones fel, Peabody Col, 47-48, 51-52, Ph.D.(ed), 52. Ed. psychologist, ed. adv. staff, Air Univ, 46-47; assoc. prof. ED, GEORGIA, 48-60, PROF, 60- Summer vis. lectr, Wisconsin, 58. Consult, pub. schs, East. Schs. Ed. Asn, 66- U.S.A, 42-46, Capt. Psychol. Asn; Ed. Res. Asn; Coun. Measurement in Ed. Teacher education; self-concept; experimentation and innovation in teaching. Publ: Co-auth, Self concepts of elementary children in relation to achievement, intelligence, interests and anxiety, 62 & Comparison between selected characteristics and performance of provisionally and professionally certified beginning teachers in Georgia, 67, U.S. Off. Ed; auth, Essentials of educational research, Edwards Bros, 63. Address: College of Education, University of Georgia, Athens, Ga. 30601.

BLEEKE, DONALD E, Human Rels, see 10th ed, Soc. & Behav. Vols.

BLEK, DR. LIBBY, b. Brooklyn, N.Y, Jan. 23, 21. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 41; M.A, Ohio State, 46; Ph.D, Connecticut, 51. Supv. clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Wis, 50-52; Vet. Admin. Hosp, American Lake, Wash, 52-53; Canadaigua, N.Y, 53-55; Brockton, Mass, 55-57; staff psychologist, Child Guid. Speech Correction Clin, Jacksonville, Fla, 57-58; CHIEF PSYCHOLOGIST, PALM BEACH COUNTY GUID. CENTER, 58- Psychol. Asn. Community mental health; child development; parent education. Publ: Co-auth, Somatic therapy as discussed by psychotic patients, J. Abnorm. & Soc. Psychol, Influence of method of administration and sex differences on selected aspects of TAT stories & Age, vocabulary level and mental impairment, J. Consult. Psychol. Address: 826 Evernia St, West Palm Beach, Fla. 33402.

BLEKE, DR. ROBERT C(HARLES), Psychol, see 10th ed, Soc. & Behav. Vols.

BLESSING, DR. HAROLD D(EAN), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

BLEWETT, PROF. DUNCAN BASSETT, b. Edmonton, Alta, Can, Oct. 28, 20; m. 42; c. 2. PSYCHOLOGY. B.A, British Columbia, 47, M.A, 50; Ph.D. (psychol), London, 53. Res. assoc. PSYCHOL, Illinois, 53-54; supv. psychologist, Dept. Pub. Health, Sask, 54-61, PROF. & CHMN. DEPT, SASKATCHEWAN, 61- Consult, psychiat. serv. br, Dept. Pub. Health, Sask, 61-Can. Army, 41-45. Can. Psychol. Asn. Self-concept and motivation; alterations in consciousness; affect and belief in communication. Publ: Experimental study of the inheritance of intelligence & co-auth, Size constancy and abstract thinking in schizophrenic patients & Weyburn assessment scale, J. Ment. Sci. Address: Dept. of Psychology, University of Saskatchewan, Regina, Sask, Can.

BLICK, DR. JAMES D(ONALD), b. Santa Monica, Calif, July 19, 22; m. 48. GEOGRAPHY. A.B, California, Los Angeles, 47, M.A, 50, Ph.D, 56. Asst. prof. geog, Los Angeles State Col, 50-51, 53; electronic specialist, Pac. Div, Bendix Aviation Corp, 53-56; asst. prof. GEOG, Maryland, 56-57; instr, Idaho, 57-58; Fullerton Jr. Col, 58-60; ASST. PROF, Univ. of the Pacific, 60-66; SAN DIEGO STATE COL, 66- Nat. Sci. Found. sci. faculty fel, 65-66. U.S.N, 42-46. Asn. Am. Geog; Geog. Soc. Latin America; regional geography; ecology of giant sequoias. Address: 9440 Emerald Vista Dr, Lakeside, Calif. 92040.

BLICK, DR. KENNETH ALVIN, b. Petersburg, Va, June 1, 37; m. 60; c. 2. PSYCHOLOGY. B.A, Richmond, 58, M.A, 60; Ph.D.(psychol), Tulane, 63. From asst. prof. to ASSOC. PROF. PSYCHOL, Randolph-Macon Col, 63-67; RICHMOND, 67- Psychol. Asn. Human learning and retention. Address: Dept. of Psychology, University of Richmond, Richmond, Va. 23220.

BLIGH, DR. HAROLD F(RANCIS), b. Pompey, N.Y, Oct. 26, 16; m. 61; c. 1. PSYCHOLOGY. A.B, Syracuse, 38, M.S, 39, Ph.D.(psychol), 57. Teacher, pub. sch, N.Y, 40-43; instr. math, Syracuse, 43-44; math. & ed, Hobart & William Smith Cols, 44-50, asst. prof. ed, head dept. & dir. testing, 50-57, dir. summer session teachers, 51-57; ed, test dept, World Book Co, 57-62, MANAGING ED. HIGH SCH. TESTS, HARCOURT, BRACE & WORLD, INC, NEW YORK, 62- Vis. prof, Syracuse, summers, 64 & 66. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed; Asn. Measurement & Eval. Guid; Nat. Soc. Study Ed. Development of tests and measurements; scaling; sociometry; developmental psychology. Address: 81 Lincoln Ave, Ardsley, N.Y. 10502.

BLISS, PROF. CHARLES A(NDRESSEN), Statist, Econ, see 10th ed, Soc. & Behav. Vols.

BLISS, PROF. DONALD TIFFANY, b. Hartford, Conn, Aug. 31, 12; m. 41; c. 2. SOCIOLOGY. B.S, Columbia, 39, M.A, 46, Ed.D, 54. Headmaster, Daycroft Sch, Conn, 46-51; asst. prof. SOCIOL, PRINCIPIA COL, 51-52, assoc. prof, 52-55, PROF. & HEAD DEPT, 55-, ASST. DEAN COL, 63-U.S.A, 40-45, Maj. Sociol. Asn. Educational sociology; criminology; marriage and the family. Publ: Plan for teaching sociology in a liberal arts college through the involvement of students in community service. Address: Dept. of Sociology, Principia College, Elsah, Ill. 62028.

BLISS, DR. HOWARD, b. Middletown, Conn, Dec. 15, 30; m. 56; c. 3. POLITICAL SCIENCE. B.A, Haverford Col, 52; M.A, Hopkins, 58; Ph.D.(polit. sci), Cornell, 67. Aide to dir, inst. develop. programming, Hopkins, 58-59; intel. specialist, U.S. Off. Naval Intel, 59-61; ASST. PROF. GOVT, DARTMOUTH COL, 65- U.S.N.R, 52-56, Lt. Comdr. Polit. Sci. Asn; Soc. Int. Law. European regional organizations; Belgian politics; federalist theory; national-international linkages. Address: Dept. of Government, Dartmouth College, Hanover, N.H. 03765.

BLISS, JOHN ALDEN, b. Jamestown, N.Y, Aug. 6, 08; m. 36; c. 2. ECONOMICS. B.A, Dartmouth Col, 29; Harvard, 30-31. V.pres. traffic, St. Johns River Line Co, Fla, 31-42; head sect. warehousing serv, Off. Price Admin, D.C, 42-47; contract chief, Pub. Serv. Cmn, N.Y, 47-50; RES. CONSULT, 50- Econ. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Interindustry comparisons, especially electric utilities with railroads. Publ: Picture is so different with a two-dimensional price, Anal. J; Case of the missing millions, Pub. Utilities Fortnightly. Address: East Greenbush, N.Y. 12061.

BLISS, PROF. PERRY, b. Vancouver, B.C, June 14, 08; U.S. citizen; m. 35; c. 2. MARKETING, ECONOMICS. B.A, Buffalo, 42, M.B.A, 50, Ph.D. (bus. admin), 53. Qual. supvr, Dunlop Tire & Rubber Corp, N.Y, 33-45; div. mgr, Sears, Roebuck & Co, Ill. & N.Y, 45-48; instr. econ, STATE UNIV. N.Y. BUFFALO, 48-50, lectr. econ. & bus. orgn, 50-53, asst. prof. mkt. & bus. orgn, 53-54, assoc. prof, 54-57, PROF. MKT. & BUS. ADMIN, 57-, CHMN. DEPT. MKT, 56-, acting assoc. dean, sch. bus. admin, 63-65, dir. doctoral prog, 66-68. Ford Found. fel, Harvard, 60-61; summer faculty mem, California, Berkeley, 54 & 58, Oregon, 61. Mem. state consumer adv. cmt. to Gov. Consumer Coun, N.Y, 56-58. Econ. Asn; Inst. Mgt. Sci; Mkt. Asn. Use of the behavioral sciences in marketing analysis and marketing; public policy. Publ: Marketing and the behavioral sciences: selected readings, 2nd ed, Allyn & Bacon, 67; Supply considerations and shopper convenience, J. Mkt, 60; chap, In: Theory in marketing, 2nd ed, Irwin, 64. Address: School of Business Administration, Crosby Hall, Library Circle, State University of New York at Buffalo, Buffalo, N.Y. 14214.

BLISS, DR. WESLEY L, Anthrop, Geol, see 10th ed, Soc. & Behav. Vols.

BLITSTEN, DR. DOROTHY R, b. Chicago, Ill, Feb. 8, 07; m. 32; c. 1. SOCIOLOGY. Ph.B, Chicago, 28; Ph.D.(sociol), Columbia, 52. Instr. SOCIOL, HUNTER COL, 52-57, asst. prof, 57-62, ASSOC. PROF, 62- Sociol. Asn. Social theory. Publ: Psychoanalysis explained; Social theories of Harry Stack Sullivan; The world of the family, Random, 63. Address: 201 E. 79th St, New York, N.Y. 10021.

BLITZ, DR. BERNARD, b. New York, N.Y, Nov. 21, 28; m. 64; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Brooklyn Col, 50, M.A, 53; Nat. Insts. Health fel, N.Y. Univ, 61, Ph.D.(psychol), 62. Teaching asst. PSYCHOL, N.Y. Univ, 52-56; res. asst, Bank St. Col, 56-58; res. traineeship, Vet. Admin. Hosps, New York, 58-60; RES. ASSOC, N.Y. MED. COL, 62-, ASST. PROF, 66- Nat. Insts. Health res. grant, 66-69. Psychol. Asn. Pain perception; pain tolerance; sensory-motor function. Publ: The role of sensory restriction in problems with chronic pain, J. Chronic Disease, 66; Relationship between pain tolerance and kinesthetic size judgment, Perceptual & Motor Skills, 66; Effects of different types of instruction on pain parameters, J. Abnorm. Psychol, 68. Address: New York Medical College, Fifth Ave. at 106th St, New York, N.Y. 10029.

BLITZ, PROF. RUDOLPH C(ARL), b. Vienna, Austria, Jan. 23, 19; nat. ECONOMICS. A.B, Earlham Col, 40; M.A, California, 48, Fund Adv. Ed. fel, 51-52, Ph.D.(econ), 56. Instr. ECON, Northwestern, 52-55, asst. prof, 55-58; VANDERBILT, 58-59, assoc. prof, 60-66, PROF, 66- Vis. prof, Chile. U.S.A, 42-45. Econ. Asn. Economic history and development. Publ: Capital longevity and economic development, Am. Econ. Rev, 58; Maintenance costs and economic development, J. Polit. Econ, 59; Mercantilist policy and the contemporary pattern of world trade, 1500-1700, J. Econ. Hist, 3/67. Address: Dept. of Economics, Vanderbilt University, Nashville, Tenn. 37203.

BLIZZARD, DEAN SAMUEL W, Sociol, see 10th ed, Soc. & Behav. Vols.

BLOCH, DR. DONALD ALAN, b. Jersey City, N.J, Aug. 25, 22; m. 40; c. 3. PSYCHIATRY. B.S, City Col. New York, 43; M.D, N.Y. Univ, 47. Mem. staff, U.S. Pub. Health Serv. Nat. Training Sch, 50-51, prfnl. serv. br, Nat. Inst. Ment. Health, 52, chief, children's psychiat. serv, clin. center, 52-53, dir, N.Y. State Residential Treatment Study, 54-57; DIR, CENT. RES. UNIT, JEWISH BD. GUARDIANS, 57-; RES. DIR, FAMILY INST, 65- Prin. investr. eval. psychother. children, Jewish Bd. Guardians, 58-; prin. investr, Psy-

chosoc. Replication Residential Treatment, 63. Private practice psychiat. & psychoanal, 49- Consult, Children's Aid Soc. Vt, 64-; Goddard Col, 64- Mem. adv. cmt. children, City New York, 63- Dipl, Am. Bd. Neurol. & Psychiat, 53. U.S.P.H.S, 52-54, Sr. Surg. Psychoanal. Asn; Acad. Psychoanal; Psychiat. Asn; Soc. Gen. Systs. Res. Evaluation studies of psychiatric treatment of children; research methodology in clinical psychiatric research; family structure and personality. Address: Family Institute, Inc, 149 E. 78th St, New York, N.Y. 10021.

BLOCH, EDITH GOETZ, b. Lithuania, Oct. 4, 26; nat; m. 51; c. 2. PSYCHOLOGY. B.S, Louisville, 53, M.A, 54. Asst. psychol, Louisville, 53-54, res. assoc, 54-55; psychologist, dept. econ. security, Child Serv. Reception Center, 55-57; Louisville Child Guid. Clin, 57-59; mem. child psychiat. team, Children's Hosp, sch. med, Louisville, 59-65; PSYCHOLOGIST, CHILD GUID. CLIN, 65-; REHAB. CENTER, 67- Consult, Birth Defect Clin, 64-66; State Dept. Health, Ky, 66-; psychologist, Hearing & Speech Center, 66-67. Psychol. Asn. Diagnostic psychological evaluations; psychotherapy; culture and personality. Publ: Airplane control test: a compensatory pursuit task, Perceptual & Motor Skills; Long-term retention of perceptual-motor skills, J. Exp. Psychol. Address: 3319 Allison Way, Louisville, Ky. 40220.

BLOCH, PROF. ERNEST, b. Germany, Jan. 29, 21; nat; m. 46. ECONOMICS. B.S. City Col. New York, 47; M.A, Columbia, 49; Ph.D, New Sch. Soc. Res, 62. Economist & spec. asst, Fed. Reserve Bank New York, 49-62; assoc. prof. econ, N.Y. UNIV, 62-65, prof. FINANCE, 65-66, CHARLES W. GERSTENBERG PROF, 66- Consult, UN, summer 63; Bank of Japan, 63- Mem. study group, Fed. Home Loan Bank Syst, 66- Econ. Asn; Finance Asn. International economics and finance; monetary economics; corporate finance. Publ: Eurodollars—an emerging international money market, N.Y. Univ. Inst. Finance, 66; Short cycles in corporate demand for government securities and cash. Am. Econ. Rev, 12/63. Address: Dept. of Finance, New York University School of Commerce, Washington Square, New York, N.Y. 10003.

BLOCH, DR. HENRY SIMON, b. Germany, Apr. 6, 15; nat; div; c. 1. ECONOMICS. Dr. Laws(econ), Nancy, France, 37. Res. asst. econ, Chicago, 38-42, instr, 43-45; economist, U.S. Treas. Dept, 45-46; sect. chief, security coun. affairs dept, UN, 46-49, acting dir. fiscal div, dept. econ. affairs, 49-51, dir, 51-55, asst. dir, bur. econ. affairs, 55-59, acting dir, 58-59, dir. Bur. Tech. Assistance Opers, 59-62, dep. cmnr. tech. assistance, 62; pres, Zinder Int, Ltd, 62-66; DIR, E.M. WARBURG & CO, INC, 67- Vis. prof, Yale, 55; lectr. law, Columbia, 55-, adj. prof. pub. law, 63- Consult, For. Econ. Admin, 45; spec. UN consult, Cmt. on Creation of Asian Develop. Bank, Thailand, 65. Mem. patronage cmt, dept. appl. econ, Free Univ. Brussels, 64. Econ. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci; Soc. Int. Develop; hon. mem. Royal Belgian Soc. Polit. Econ. International and public finance; money and banking; economic development; foreign investment. Publ: The challenge of the world trade conference, Sch. Int. Affairs, Columbia, 64-5; Regional development financing, UN Document, 2/66; Regional development financing, Int. Orgn, Vol. XXII, No. 1. Address: E.M. Warburg & Co, Inc, 60 Broad St, New York, N.Y. 10004.

BLOCH, PROF. HERBERT A(ARON), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 65.

BLOCH, PROF. HERMAN D(AVID), b. Brooklyn, N.Y, May 8, 14. ECONOMICS. A.B, Brooklyn Col, 38; Chicago, 38-40, Halle fel, 42-43; Ph.D, New Sch. Soc. Res, 50. Economist, U.S. Bur. Labor Statist, 43-44; Nat. War Labor Bd, 44-45; asst. prof, Toledo, 46-49; asst. prof. econ. & indust. rel. & chmn. dept. indust. rel, Bridgeport, 50-56; Philip Murray Grant prof. indust. rel, Howard, 56-60; PROF, State Univ. N.Y Sch. Labor & Indust. Rel, Cornell, 60-65; ECON, ST. JOHN'S (N.Y), 65- Consult, New York Cath. Interracial Coun, 64- Econ. Asn; Sociol. Asn. Human relations in industry; economic theory; sociological theory; the Negro American in New York City, 1625-1964. Publ: Circle of discrimination against Negroes; Recognition of discrimination—a solution?; Craft unions. Address: Dept. of Economics, St. John's University, Jamaica, N.Y. 11432.

BLOCH, JOSEPH W(ALTER), Labor Econ, see 10th ed, Soc. & Behav. Vols.

BLOCHER, PROF. DONALD HUGH, b. Greenville, Ohio, Aug. 7, 28; m. 53; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Ball State, 50, M.A, 54; Ph.D. (ed. psychol), Minnesota, 59. Teacher, pub. schs, Ind, 54-55 & Minn, 55-56; counsr, Vet. Admin. Hosp, 56-57; pub. schs, Minn, 57-60; asst. prof. ED. PSYCHOL, MINNESOTA, MINNEAPOLIS, 60-63, assoc. prof, 63-66, PROF, 66- Consult. Vet. Admin. counseling psychol. training prog, Minneapolis Vet. Admin. Hosp. & St. Cloud Hosp, Minn, 65- U.S.A.F, 51-53, 1st Lt. Psychol. Asn; Personnel & Guid. Asn. Vocational development; counseling theory; counselor education process. Publ: Developmental counseling, Ronald, 66. Address: 253 Burton Hall, University of Minnesota, Minneapolis, Minn. 55455.

BLOCK, DR. HERBERT, b. Berlin, Germany, Jan. 1, 03; nat; m. 54. ECONOMICS. Dipl, Freiburg, 24, Ph.D, 26. Ed, 'Magazin der Wirtschaft,' 26-31; consult, financial cmt, League of Nations, 32; assoc. ed, Vossische Zeitung, 33-34; lectr, Spanish For. Serv. Inst. & Univ. Madrid, 34-36; newspaper correspondent, Berne, Switz, 36-40; consult. fel, Brookings Inst, 40-41; researcher, grad. faculty, New Sch. Soc. Res, 41-44; res. analyst, Army Indust. Col, 44; sect. chief, U.S.S.R. Div. Off. Strategic Serv, 44-45; from br. chief to SPEC. ASST. ECON. AFFAIRS, OFF. RES. SOVIET BLOC, U.S. DEPT. STATE, 45- Prof. lectr, sch. adv. int. studies, Hopkins, 63. Econ. Asn. National income analysis; international trade; monetary theory; communist ideology. Publ: Die Marxsche Geldtheorie; Manpower allocation in Germany, Harvard Bus. Rev; Changes in European transportation, Soc. Res. Address: 6000 Green Tree Rd, Bethesda, Md. 20034.

BLOCK, HERBERT S(ELIG), Math. Statist, see 10th ed, Soc. & Behav. Vols.

BLOCK, DR. JACK, Psychol, see 11th ed, Phys. & Biol. Vols.

BLOCK, DR. JAMES D(AVID), b. New York, N.Y, June 11, 27; m. 62. PSYCHOLOGY. A.B, Hunter Col, 50; fel. & Ph.D.(psychol), Cornell, 54. U.S. Pub. Health Serv. fel, behav. lab, Cornell, 54-56; asst. prof. psychiat, Albert Einstein Col. Med, 56-68; chief psychophysiol. res. unit, Montefiore Med. Center, 66-68; ASSOC. PROF. PEDIAT, NEUROPSYCHOL. LAB, N.Y. MED. COL, 68- U.S. Pub. Health Serv. career res. develop. fel, 62-67. U.S.N, 45-46. AAAS; Psychol. Asn; Psychosom. Soc; Interam. Soc. Psychol; Soc. Psychophysiol. Res. Physiological psychology; intraindividual autonomic response organization; modification by environmental and genetic factors; relation to pathology and application of conditioning methods to therapy of pathologic patterns. Address: 510 E. 86th St, New York, N.Y. 10028.

BLOCK, DR. JEANNE H(UMPHREY), b. Tulsa, Okla, July 17, 23; m. 50; c. 4. PSYCHOLOGY. B.A, Reed Col, 47; Ph.D.(psychol), Stanford, 51. Instr. clin. psychol, Stanford, 51-52; res. asst, U.S. Pub. Health Serv. Proj, 53-55; res. assoc, Calif. Med. Asn, 56-59; co-dir. proj. invest. psychol. factors bronchial asthma, Children's Hosp. of E.Bay, Oakland, 59-63; ASSOC. RES. PSYCHOLOGIST, INST. HUMAN DEVELOP, CALIFORNIA, BERKELEY, 64- Nat. Inst. Ment. Health spec. res. fel, Inst. Soc. Res, Norway, 63-64 & res. scientist develop. award, 68- U.S.C.G.W.R, 44-46, Ens. Psychol. Asn; Soc. Psychol. Study Social Issues; Soc. Res. Child Develop. Personality development; family interaction patterns; psychological factors in illness, treatment and recovery. Publ: Predicting the behavior of children under frustration; A study of the parents of schizophrenic and neurotic children; co-auth, Activism and apathy in contemporary adolescents, In: Understanding adolescents, Allyn & Bacon, 67. Address: 1395 Rifle Range Rd, El Cerrito, Calif. 94530.

BLOCK, DR. J(ULES) R(ICHARD), b. New York, N.Y, Nov. 23, 30; m. 52; c. 2. PSYCHOLOGY. B.A, Hofstra Col, 52; Ph.D.(indust. psychol), N.Y. Univ, 62. Instr. PSYCHOL, HOFSTRA, 56-62, asst. prof, 62-66, ASSOC. PROF, 66-, CHMN. DEPT, 68-; RES. DIR. HUMAN RESOURCES RES. & TRAINING INST, ALBERTSON, 61-, res. assoc. psychol, 58-61. Res. consult, Nassau County Econ. Opportunities Cmn, 66- U.S.N.R, 52-67, Lt. Psychol. Asn. Application of social science research methods to the study and resolution of contemporary social problems as confronted in their natural context. Publ: Co-auth, Common sense about psychological testing, Personnel, 60; auth, Some observations regarding the use of protective techniques in social and industrial research, J. Soc. Psychol, 64; co-auth, Measurement of attitudes toward disabled persons, Human Resources, 67. Address: Dept. of Psychology, Hofstra University, Hempstead, N.Y. 11550.

BLOCK, DR. STANLEY M(ARLIN), Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BLOCK, PROF. VIRGINIA LEE, b. Asbury Park, N.J, July 4, 02. EDUCATIONAL PSYCHOLOGY. B.A, Rutgers, 24; M.A, Columbia, 28; Suzzalo fel, Stanford, 34-36, Ed.D, 50. Soc. worker, N.J, 21-24, New York, 24; teacher, pub. schs, N.J, 24-28, head Eng. dept. & counsr, 29-33; asst, Stanford, 33-36; dir. child guid. clin. & guid. dept, pub. schs, Wash, 36-50; assoc. prof. ED. & PSYCHOL, SAN FRANCISCO STATE COL, 50-54, PROF, 54-, head dept. guid. & counseling, 54-64. Assoc. prof, exten. serv, Washington (Seattle), 46-50. Consult, 36-50. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. AAAS; fel. Psychol. Asn; Soc. Res. Child Develop; Personnel & Guid. Asn; Int. Coun. Psychol. Reading; gifted children; counseling; behavior. Publ: The school psychologist; Conflicts of adolescents with their mothers, J. Abnorm. & Soc. Psychol. Address: 260 W. Portal Ave, San Francisco, Calif. 94127.

BLOCK, DR. WILLIAM E(LLIS), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

BLOCK, PROF. WILLIAM JOSEPH, b. Mattoon, Ill, Mar. 10, 18; m. 41; c. 3. PUBLIC ADMINISTRATION, POLITICAL SCIENCE. B.S, East. Ill. State Col, 48; M.A, Illinois, 49, Ph.D, 56. Asst. prof. POLIT. SCI, The Citadel, 51-57; asst. prof, N.C. STATE, 57-60, assoc. prof, 60-63, PROF, 63-, HEAD DEPT, 67- U.S.A, 42-46, 1st Lt. Polit. Sci. Asn; Soc. Pub. Admin. Clientele and its relationships to public administrative agencies. Publ: Separation of the farm bureau and the extension service; co-auth, You and agricultural policy development, Agr. Policy Inst, 63; Rural zoning: people, property and public policy, U.S. Dept. Agr, 67. Address: 103 Harrelson Hall, North Carolina State University, Raleigh, N.C. 27607.

BLOCKER, DR. CLYDE E(DWARD), b. Huntington, Ind, Oct. 31, 18; m. 41; c. 3. PSYCHOLOGY. B.S, Indiana, 41, M.S, 46; Ed.D, Columbia, 51. Dean men, Tulsa, 46-51; personnel mgt, Gen. Am. Life Ins. Co, Mo, 51-54; dean men, Flint Jr. Col, 54-55, col, 55-61; assoc. prof. ed. admin, Texas, 61-64; PRES, HARRISBURG AREA COMMUNITY COL, 64- Lectr, Washington (St. Louis), 54; summer lectr, Mich. State; California, Berkeley. Mem. admin. cmn, Am. Asn. Jr. Cols, 57-61, 65-; external exam, Alberta, 66; dir, Am. Col. Testing Prog, Inc, 66-; mem. cmn. tests, Col. Entrance Exam. Bd, 66- U.S.A.A.F, 42-46. Psychol. Asn. Sociology of organizations; administration of higher education. Publ: Co-auth, The two-year college: a social synthesis, Prentice Hall, 65. Address: 4008 Woodvale Rd, Harrisburg, Pa. 17109.

BLOCKER, PROF. J(OHN) G(ARY), Acct, see 10th ed, Soc. & Behav. Vols.

BLOCKSMA, DR. DOUGLAS D(EWEY), b. Grand Rapids, Mich, Apr. 17, 16; m. 43. PSYCHOLOGY. A.B, Calvin Col, 37; Bivin Found. fel, 37-38; M.A, Michigan, 38; Ph.D.(psychol), Chicago, 51. Counsr, Flint Guid. Center, 39-40; instr. psychol, Ohio State, 41-42; admin. dir. counseling center, Chicago, 46-49; dir, pub. schs, Mich, 49-55; CONSULT. PSYCHOLOGIST, 55- Dipl, Am. Bd. Exam. Prfnl. Psychol, 55. U.S.A, 42-43; U.S.N, 44-45. Psychol. Asn; Personnel & Guid. Asn. Counseling; adolescence; social class. Publ: Leader flexibility in group guidance situations, J. Ed. & Psychol. Measurement; New approaches to counseling, J.Nat. Asn. Deans Women; Adolescent characteristics, Rev. Ed. Res. Address: 2523 S. Union St, Grand Rapids, Mich. 49507.

BLODGETT, DR. HARRIET ELEANOR, b. Lyndonville, Vt, Sept. 28, 19. PSYCHOLOGY. B.S, Tufts, 40; M.A, Minnesota, 43, Ph.D, 53. Psychologist, State Dept. Pub. Insts, Minn, 43-46; instr. child welfare, inst. child welfare, Minnesota, 46-53; asst. prof, 53-54; clin. psychologist, genetic res. proj, Rochester State Hosp, 54-55; PROG. DIR, SHELTERING ARMS DAY SCH, 55- Lectr, Macalester Col, 61; consult. assoc. prof, Minnesota, 63- Consult, Minneapolis Curative Workshop, 48-; mem. group ment. retardation, White House Conf, 60. Fel. Asn. Ment. Deficiency; Psychol. Asn; Coun. Except. Children. Psychological, medical and educational study of Huntington's chorea; psychological diagnosis, parent counseling and education of mentally retarded children. Publ: Co-auth, Understanding mentally retarded children. Address: 2401 34th Ave. S, Minneapolis, Minn. 55406.

BLODGETT, PROF. HUGH CARLTON, b. Zamora, Calif, Nov. 21, 96; m; c. 3. PSYCHOLOGY. A.B, California, 21, Ph.D.(psychol), 25. Asst. PSYCHOL, Stanford, 25-26; Harvard, 26-27; instr, Lehigh, 27-28; from instr. to PROF, TEXAS, 28- AAAS; fel. Psychol. Asn; Psychonomic Soc. Learning; motivation; hearing. Address: 1314 Westover Rd, Austin, Tex. 78703.

BLODGETT, PROF. RALPH H(AMILTON), b. North Adams, Mass, Dec. 25, 05; m. 30, 58; c. 5. ECONOMICS. B.S, Vermont, 27, A.M, Syracuse, 28; Ph.D, Pennsylvania, 33. Instr. ECON, Pennsylvania, 29-37; asst. prof, Illinois, 37-41, assoc. prof, 41-45, PROF, 45-50; FLORIDA, 50-, RES. PROF, BUR. ECON. & BUS. RES, 64- Consult, Tenn. Valley Authority, 53, 59-; numerous law firms, 66- Econ. Asn; Acad. Polit & Soc. Sci. Economic theory. Publ: Comparative economic systems; Our expanding economy; Comparative economic development. Address: 6401 S.W. 35th Way, Gainesville, Fla. 32601.

BLOM, PROF. GASTON E, b. Brooklyn, N.Y, Mar. 29, 20; m. 46; c. 4. PSYCHIATRY, EDUCATION. B.S, Colgate, 41; M.D, Harvard, 44; Boston Psychoanal. Inst, 56 & 58. Dir. child psychiat. unit, Mass. Gen. Hosp, Boston, 54-58; chief child psychiat. div, MED. CENTER, COLORADO, 58-63, assoc. prof. PSYCHIAT, 58-62, PROF, 62-, DIR. DAY CARE CENTER, 63-, PROF. ED. UNIV, 66- Faculty, Smith Col, 54-57; instr, Harvard Med. Sch, 56-58; lectr, sch. soc. work, Denver, 60-; training analyst, Inst. Psychoanal, Chicago, 62- Consult, ment. health study sect, div. res. grants, Nat. Insts. Health, 60-64. Mem, Governors Cmn. Ment. Health, Colo, 60-64; proj. literacy, Cornell Univ, 64-; Joint Cmn. Psychiat. In-Patient Serv. for Children, 60; Joint Cmn. Child Psychiat. Training, 62. Dipl, Am. Bd. Psychiat. & Neurol, 55. Med.C, U.S.N.R, 44-46, Lt.(jg); U.S.P.H.S, 46-47, Asst. Surg. Psychoanal. Asn; Coun. Except. Children; Acad. Child Psychiat; Psychiat. Asn; Soc. Res. Child Develop. Psychosomatic disorders; emotional effects of illness-operation-hospitalization; psychoeducational methods for emotionally disturbed children; teacher education; nature and influence of content of books on the reading process. Publ: Co-auth, A teacher's guide for selecting stories of interest to children, Wayne State, 68; auth, Psychoeducational aspects of classroom management, Except. Children, 2/66; co-auth, Ethnic integration and urbanization of a first grade reading textbook: a research study, Psychol. in Schs, 4/67. Address: Dept. of Psychiatry, University of Colorado, Denver, Colo. 80220.

BLOMBERG, DAVID J(OSEPH), b. Rockford, Ill, June 11, 26; m. 51; c. 1. ECONOMICS. B.S, Bradley, 53, M.A, 54; Illinois, 54-57. Asst. mgr, Hotel Pere Marquette, Ill, 51-53; asst. bur. econ. & bus. res, Illinois, 54-57; cost analyst, WEST. ELEC. CO, INC, Ill, 57-58, field supvr, 58-60, labor analyst, NEW YORK, 60-61, results anal, 61-63, DEPT. CHIEF, pub. rels, 63-64, acct. res. & develop, 64-65, pricing methods, 65-66, CORP. METHODS PROJS, 66- Mem, N.J. Econ. Adv. Cmt, 67. U.S.N, 43-46. Econ. Asn. General economics and foreign trade; man-land ratio for forecasting population based upon economic growth and agricultural production. Publ: The dollar shortage; Australia's population problem; Australia: a study of population growth and its effect upon major primary production. Address: 11 Seaman St, Madison, N.J. 07940.

BLOMMERS, PROF. PAUL, b. Pella, Iowa, Mar. 5, 10; m. 34; c. 2. STATISTICS, EDUCATION. A.B, Cent. Col.(Iowa), 32; M.S, Iowa, 36, Ph.D.(ed), 43. Secy, univ. exams. serv, IOWA, 43-45, registr. & exam, 45-47, acting dean COL. ED, 47-48, assoc. prof. STATIST. METHODS IN ED. & PSYCHOL, 48-55, PROF, 55-, CHMN. DIV. ED. PSYCHOL, MEASUREMENT & STATIST, 66- Consult, N. Star Res. & Develop. Inst, Minn, 64-; McDonnell Douglas Corp, 67- AAAS; Statist. Asn; fel. Psychol. Asn; Psychomet. Soc; Biomet. Soc; Inst. Math. Statist; Ed. Res. Asn; Coun. Measurement in Ed; Psychonomic Soc. Educational measurement and psychology. Publ: Co-auth, Elementary statistical methods in psychology and education; Rate of comprehension of reading: its measurement and its relation to comprehension; The organismic age concept, J. Ed. Psychol. Address: 3 Woolf Court, Iowa City, Iowa 52240.

BLOMSTROM, DR. ROBERT L(OWELL), b. Feb. 23, 20; U.S. citizen; m. 46; c. 3. HUMAN RELATIONS. B.S, Colorado, 47, M.S, 50, Ph.D.(econ), 61. Secy-treas, NEW STRATER CORP, Colo, 50-58, V.PRES, 58-; PROF. MGT, MICH. STATE, 65- Asst. prof, Arizona State, 60-65. Econ. Asn; Acad. Mgt. Application of personnel functions and human relations concepts to small business. Publ: Co-auth, Business and its environment, McGraw, 66. Address: College of Business Administration, 408 Eppley Center, Michigan State University, East Lansing, Mich. 48823.

BLOOD, DR. DON F(LETCHER), b. Yakima, Wash, Sept. 12, 21; m. 46; c. 2. EDUCATIONAL PSYCHOLOGY, STATISTICS. B.A, Cent. Wash. Col. Ed, 46; M.A, Iowa, 49, Ph.D.(ed. statist), 51. Teacher, pub. schs, Wash, 46-48; asst. prof. ed, WEST. WASH. STATE COL, 51-56, assoc. prof. ed. & psychol, 56-60, PSYCHOL, 60-68, PROF, 68-, COL. EXAM, 67- U.S.A, 43-46, Sgt. Educational and psychological measurement. Publ: Co-auth, Reading ability in relation to several physical conditions, Northwest Med, 1/64, Creative potential in honors students, The Superior Student, 3-4/65 & Personality characteristics of gifted college freshmen, Psychol. in the Schs, 10/66. Address: College Examiner, Western Washington State College, Bellingham, Wash. 98225.

BLOOD, DR. DWIGHT M(ELVIN), b. Penrose, Wyo, Sept. 17, 32; m. 52; c. 4. ECONOMICS. B.S, Wyoming, 53; fel, Montana State, 53-54, M.S, 55; M.A, Michigan, 58, Ph.D.(econ), 63. From instr. to asst. prof. econ, Colorado State, 54-56, asst. prof, 58-59; res. asst, Michigan, 56-58; dir, Wyo. Legis. Coun, 59-61; fiscal economist, off. tax anal, U.S. Treas. Dept, 61-62; asst. study dir. surv. res. center, Univ. Michigan, 62-63; asst. prof. econ. & agr. econ, Pa. State, 63-65; DIR. DIV. BUS. & ECON. RES, WYOMING, 65-, PROF, 68- Ford Found. fel, Michigan, 66. Consult, U.S. Dept. Commerce, 64-66; Wyo. Recreation Cmn, 65-; northeast corridor transportation proj, U.S. Dept. Transportation, 67-; Wyo. Indust. Develop. Corp, 67- Shephardson award, Colorado State, 57. Economet. Soc; Econ. Asn; Agr. Econ. Asn. Public finance; quantitative economic research methods; natural resource economics; transportation; outdoor recreation. Publ: Co-auth, The changing travel market, 3/64 & Mode choice in intercity travel, 5/64, Univ. Michigan, Inst. Soc. Res. Address: Division of Business & Economic Research, University of Wyoming, Box 3923, University Station, Laramie, Wyo. 82070.

BLOOD, DR. ROBERT O(SCAR), JR, b. Concord, N.H, Aug. 15, 21; m. 44; c. 4. SOCIOLOGY. A.B, Dartmouth Col, 42; B.D, Yale, 45; M.A, Minnesota, 50; Ph.D.(sociol), North Carolina, 52. Prof. sociol. & instr. appl. relig, William Penn Col, 46-49; mem. staff, family life dept. & marriage couns. serv, Merrill-Palmer Inst, 51-52; asst. prof. SOCIOL, MICHIGAN, 52-57, ASSOC. PROF, 57- Fulbright res. fel, Tokyo, 58-59; vis. assoc. prof, Int. Christian Univ, Tokyo, 67-69. Sociol. Asn; Soc. Res. Child Develop; Asn. Marriage Counsr. Marriage and family relations; marriage counseling; social roles of men and women. Publ: Husbands and wives; Marriage; Love match and arranged marriage, Macmillan, 67. Address: Dept. of Sociology, University of Michigan, Ann Arbor, Mich. 48103.

BLOOM, DR. CLARK C(LARENCE), b. Muscatine, Iowa, Sept. 4, 19; m. 42; c. 5. ECONOMICS. B.C.S, Drake, 41; M.A, Iowa, 47, Ph.D.(econ), 49. Instr, Iowa, 46-47, assoc. bus. finance, 47-50, asst. prof. econ, 50-52, assoc. prof, 52-57, prof. econ, 57-63, asst. dir. bur. bus. econ. & res, 57-62, assoc. dir, 62-63; asst. rep, FORD FOUND, Beirut, Lebanon, 63-66, acting rep, 66-67, REP, MANILA, 67- Ford Found. adv. econ. eng, Jordan, 60-61. U.S.A, 41-46, Maj. Econ. Asn; Regional Sci. Asn; Philippine Econ. Soc. Regional economic analysis; price and distribution theory; government regulation of business. Publ: State and local tax differentials and the location of manufacturing; Contrib, Is a consistent governmental economic policy possible?, Goals Econ. Life; auth, How the American economy is organized, In: Primer of economics. Address: Ford Foundation, P.O. Box 776, Manila, Philippines.

BLOOM, DR. GERALD M(OYSE), b. Montreal, Que, May 8, 29; m. 54; c. 3. PSYCHOLOGY. B.A, Sir George Williams, 52; M.A, Toronto, 54; Ph.D.(clin. psychol), Ottawa (Ont), 66. Psychologist, Ont. Hosp. Sch, Smith Falls, 54-56, 58-60; sr. psychologist, OTTAWA CIVIC HOSP, ONT, 60-65, CHIEF PSYCHOLOGIST, 65- Lectr, Ottawa (Ont), 60-; St. Patricks Col, Carlton, 68-; Algonquin Col, 68- Am. Psychol. Asn; Asn. Ment. Deficiency; Can. Psychol. Asn; Interam. Soc. Psychol. Clinical psychology; perception of ambiguous stimuli; projective techniques. Address: 2105 Queensgrove Rd, Ottawa 13, Ont, Can.

BLOOM, DR. KENNETH L(IONEL), b. New York, N.Y, Dec. 31, 29; m. 52; c. 2. PSYCHOLOGY. B.S, City Col. New York, 51, M.S, 52; Off. Voc. Rehab. fel, Columbia, 55-56, A.M, 56, Ph.D.(counseling psychol), 60. Intern psychol, Harriet Tubman Clin, New York, 54-55; intern psychol, VET. ADMIN. HOSP, Montrose, N.Y, 56-57; Bronx, N.Y, 57-60; counseling psychologist, Brooklyn, N.Y, 60-61, ASST. CHIEF COUNSELING PSYCHOLOGIST, BRONX, 61- Voc. counsr, Stevens Inst. Tech, 58-65, lectr, City Col. New York, 61- Consult, State Div. Voc. Rehab, N.Y, 61-; State Bur. Disability Determinations, N.Y, 62-; State Rehab. Cmn. N.J, 64- Pres, bd. mgr, North Jersey Training Sch, 64- U.S.A, 52-54, Res, 54-60, 1st Lt. Psychol. Asn: Personnel & Guid. Asn; Nat. Rehab. Asn. Education; geriatrics and gerontology; psychological testing; psychological aspects of physical disability; vocational rehabilitation. Publ: Some relationships between age and self perception, Am. Psychologist; Age and the self concept, Am. J. Psychiat: Some relationships between age and aptitudes in a disabled hospital population, Am. Psychologist, 64. Address: 91 Hazel St, Dumont, N.J. 07628.

BLOOM, DR. MARTIN, b. Grand Rapids, Mich, Sept. 11, 34; m. 58; c. 2. SOCIAL PSYCHOLOGY. B.A, Michigan, 56, Ph.D.(soc. psychol), 63; California, Los Angeles, 56-57; dipl. soc. work, Edinburgh, 58. RES. ASSOC. SOC. WORK, BENJAMIN ROSE INST, 63- Lectr, Western Reserve, 64-66, Wayne State, summer, 63. Psychol. Asn; Sociol. Asn; Geront. Soc. Social psychology of human development; philosophy of science; educational social psychology; attitudes, values and ideology. Publ: Metastasis: a social psychological concept concerning mental health and illness, Ment. Hyg, 1/65, Connecting formal behavioral science theory to individual social work practices, Soc. Serv. Rev, 3/65; co-auth, Toward a theory of writing: the teaching and writing of argumentative writing, Col. Eng, 1/67. Address: 3610 Cummings Rd, Cleveland Heights, Ohio 44118.

BLOOM, PROF. MAX R(OBERT), b. New York, N.Y, Dec. 4, 16; m. 41; c. 2. ECONOMICS. B.S.S, City Col. New York, 39; cert, New Sch. Soc. Res, 40; Ph.D, American Univ, 59. Economist, War Prod. Bd, 40-43; Nat. Housing Agency, 46-48; U.S. Dept. Commerce, 48-49; Housing & Home Finance Agency, 50-56; PROF. REAL ESTATE & URBAN LAND ECON. & CHMN. DEPT, COL. BUS. ADMIN, SYRACUSE, 56- Acting asst. prof, sch. bus. admin, California, 55-56; Fulbright lectr, Israel Inst. Tech, 60-61. Consult, govt. & private firms, 56-68; res. dir. & consult, N.Y. State Joint Legis. Cmt. Metrop. Areas Study, 63-65. U.S.A, 43-46, Lt. Econ. Asn; Regional Sci. Asn; Real Estate & Urban Econ. Asn. Urban land economics; regional and urban planning; housing and urban renewal; mortgage markets. Publ: Economic criteria and the use of land in subsidized urban redevelopment areas; Fiscal productivity and pure theory of urban renewal, Land Econ, 5/62; Economics and urban renewal, Proc. Prinl. Develop. in Urban Renewal Admin, N.Y. State Dept. Housing, 12/65. Address: College of Business Administration, Syracuse University, Syracuse, N.Y. 13210.

BLOOM, DR. RICHARD D, b. Detroit, Mich, Jan. 28, 30; m. 62; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Wayne State, 54, M.A, 55; U.S. Pub. Health Serv. fel, Michigan, 60-61, Rackham fel, 61-62, Ph.D.(psychol), 62. Res.

assoc. psychol, Inst. Develop. Studies, 62-63; res. specialist, U.S. Off. Ed, 63-66; ASSOC. PROF. ED. PSYCHOL, RUTGERS, 66- Psychol. Asn; Ed. Res. Asn. Concept learning; application of learning theories to observe the classroom; group process research, especially the classroom. Publ: Consensus among classroom informants: a critical problem in classroom research, J. Ed. Measurement, 65; Four observation categories to observe pre-school behavior, Proc. Am. Psychol. Asn, 67; The application of a learning theory in the development of a teachers observation scale, Res. Bull. N.J. Sch. Develop. Coun, 67. Address: 205 Overbrook Rd, Piscataway, N.J. 08854.

BLOOM, PROF. ROYAL F(ERDINAND), b. Cambridge, Minn, Jan. 14, 05; m. 34. PSYCHOLOGY. B.S, Minnesota, 30, M.A, 38. Instr. psychol, Eveleth Jr. Col, 37-42; head, classification test sect, bur. personnel, U.S. Dept. Navy, 46-47; PROF. PSYCHOL, BETHEL COL, 47- U.S.N.R, 42-46, Comdr. Psychol. Asn; Statist. Asn; Biomet. Soc; Personnel & Guid. Asn. Aptitude testing; measurement techniques and statistical analysis; evaluation of learning. Publ: Psychological test construction and research in the bureau of naval personnel & Validity of the basic test battery, form 1, for selection for ten types of elementary naval training schools, Psychol. Bull; co-auth, Prediction of success in elementary schools for enlisted personnel, In: Personnel research and test development, Princeton, 47. Address: Dept. of Psychology, Bethel College, 1480 N. Snelling St, St. Paul, Minn. 55101.

BLOOM, PROF. SAMUEL W(ILLIAM), b. Reading, Pa, Sept. 18, 21; m. 48; c. 1. SOCIOLOGY. B.A, Pennsylvania, 43; M.A, New Sch. Soc. Res, 50; Ph.D, Wisconsin, 56. Res. assoc, bur. appl. soc. res, Columbia, 53-56; asst. prof. sociol, col. med, Baylor, 56-62; assoc. prof. sociol. in admin, STATE UNIV. N.Y. DOWNSTATE MED. CENTER, 62-65, PROF. SOCIOL. IN PSYCHIAT, 65- Co-chief investr, Vet. Admin. Res. Funds grant, Hogg Found. & Nat. Inst. Ment. Health res. grant, 60-64; vis. assoc. prof, Haverford Col, vis. lectr, sch. med, Pennsylvania, & vis. prof, Bryn Mawr Col, 61-62; chief investr, univ. res. found. grant, State Univ. N.Y, 62-65 & Milbank Mem. Found. res. grant, Downstate Med. Center, 65- Consult, Tex. Inst. Rehab. & Res, 60-62; res. consult, psychiat. treatment res. center, State Univ. N.Y. Downstate Med. Center, 63-; consult. Hadassah Med. Orgn. & Hebrew Univ, 67. Mem. subcmt. soc. sci, ment. health training cmt, Nat. Inst. Ment. Health, 65-69, chmn-elect, 67; mem. tech. bd, Milbank Mem. Fund, 66. U.S.A.A.F, 43-46. AAAS; fel. Sociol. Asn; Asn. Am. Med. Cols. Sociology of medical education; social psychology; mass communication theory and research; sociological theory. Publ: The doctor and his patient: a sociological interpretation, Macmillan, 2nd ed, 65; co-auth, Affective orientation and physiological activity (GSR) in small peer groups, Psychosom. Med, 5-6/63; auth, The sociology of medical education: some comments on the state of a field, Milbank Mem. Fund Quart, 4/65. Address: State University of New York Downstate Medical Center, 450 Clarkson Ave, Brooklyn, N.Y. 11203.

BLOOM, DR. WALLACE, b. New York, N.Y, Apr. 9, 16; m. 50; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 36; M.S, Trinity (Tex), 52; George Washington, 52-53; New Mexico, 57-60; United Cerebral Palsy Found. & Nat. Defense Ed. Act fels, Texas, 60-63, Ph.D.(ed), 64. Employ. interviewer, State Dept. Labor, N.Y, 37-39; sr. human eng. specialist, United Tech. Center, Calif, 63-64; staff clin. psychologist, Porterville State Hosp, Calif, 64-66; CHILD CLIN. PSYCHOLOGIST, CHAP CHILD GUID. CLIN, WILFORD HALL U.S. AIR FORCE HOSP, SAN ANTONIO, 66- Lectr, Our Lady of the Lake Col, 67- U.S.A.F, 40-60, Lt. Col. Coun. Except. Children; Psychol. Asn. Human factors engineering; educational psychology; special education; mental retardation; minimal brain dysfunction; behavior modification. Publ: Shift work and human efficiency, In: Studies in personnel and industrial psychology; co-auth, More than an admission ward, Staff Mag, 3-4/67; auth, Effectiveness of a cooperative special education-vocational rehabilitation program, Am. J. Ment. Deficiency, 12/67. Address: 114 Atwater Dr, San Antonio, Tex. 78213.

BLOOMBAUM, DR. MILTON S, b. New York, N.Y, June 29, 29; m. 52; c. 2. SOCIOLOGY. A.B, California, Berkeley, 52, Ph.D.(sociol), Los Angeles, 61; M.A, Southern California, 58. Instr. SOCIOL, Wisconsin, Madison, 60-62; asst. prof, Southern California, 62-65; ASSOC. PROF, HAWAII, 65- Vis. res. scholar, Israel Inst. Appl. Soc. Res, 65-66. A.U.S, 53-55. Fel. Sociol. Asn. Social interaction; integration of theory, methods and statistics. Publ: The logic-in-use of sociologists at work, Pac. Sociol. Rev, fall 67; The conditions underlying race riots as portrayed by multidimensional scalogram analysis, Am. Sociol Rev, 2/68; A smallest space analysis of cross-cultural data, Am. Anthropologist, 4/68. Address: Dept. of Sociology, University of Hawaii, Honolulu, Hawaii 96822.

BLOOMBERG, DR. MORTON ARNOLD, b. Winthrop, Mass, Oct. 26, 36; m. 61; c. 2. PSYCHOLOGY. A.B, Clark, 58; Ph.D.(field independence), State Univ. N.Y. Buffalo, 63. Counseling intern, Student Counseling Center, State Univ. N.Y. Buffalo, 59-61, asst. psychol, 61-63, lectr, 63; asst. prof. psychol, Skidmore Col, 63-66, faculty res. grants, 65-66; ASST. PROF. PSYCHOL, ADELPHI, 66- Nat. Sci. Found. acad. year exten. grant, 66-68. Summers, counseling psychol. trainee, Vet. Admin. Hosps, Boston, 59 & Brockton, 60, res. asst, McLean Hosp, 61, participant, Nat. Sci. Found. res. prog. col. teachers, Pa. State, 65 & Michigan, 66. Psychol. Asn; Soc. Res. Child Develop. Cognitive styles and creativity; Werner Theory; moral development. Publ: Field independence-dependence and susceptibility to distractions, Perceptual & Motor Skills, 65; An inquiry into the relation between field independence-dependence and creativity, J. Psychol, 67; Differences between field independent and field dependent persons on the Stroop Color-Word test, J. Clin. Psychol, 68. Address: Dept. of Psychology, Adelphi University, Garden City, N.Y. 11530.

BLOOMER, DR. RICHARD HUTCHESON, b. Rochester, N.Y, Dec. 31, 25; m. 55; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Columbia, 49; M.A, 52; Ed.D.(ed. psychol), Southern California, 59. Asst, New York Bd. Higher Ed, 52-53; instr. ed, Wichita, 53-55; asst, Southern California, 55-56; assoc. prof. ed. psychol. & dir. ed. clin, State Univ. N.Y. Col. Ed. Geneseo, 56-61; ASSOC. PROF. ED, CONNECTICUT, 61- Prin. investr. readability res. grant, Wichita, 54-55; perceptual selectivity res. found. grant, State Univ. N.Y, 57-59, consult, Latin Am. Proj, 57-61; summer, vis. assoc. prof, New Mexico Highlands, 60. Consult, Cessna Aircraft Co, Kans, 53; Adams, Newsome, Morrow Psychiat. Clin, 53-54; O.A. Sutton Corp, 54; pub. schs, N.Y, 57-61; Dept. Health, Ed. & Welfare Proj, New Mexico Highlands, 59-; N.Y. Jewish Guild Blind, 62-; President's Cmn. Juvenile Delinquency & Youth, 63-; Olivetti Underwood Corp, 63-; Off. Econ. Opportunity, 66- U.S.A, 44-46. AAAS; Psychol. Asn; Speech & Hearing Asn; Ed. Res. Asn. Development of learning theory applied to stimulus and response dimensions for the sequencing of learning materials in general, especially the learning of language. Publ: Concepts of meaning and the reading and spelling difficulty of words, Level of abstraction as a function of modifier load & co-auth, Effect of sonic emotion on the immediate recall of nonsense syllables, J. Ed. Res. Address: School of Education, University of Connecticut, Storrs, Conn. 06268.

BLOOMFIELD, DR. ARTHUR I(RVING), b. Montreal, Que, Can, Oct. 2, 14; nat. ECONOMICS. B.A, McGill, 35, M.A, 36; Soc. Sci. Res. Coun. fel, 39-40; Ph.D, Chicago, 42. Consult, For. Econ. Admin, 44-45; chief div. balance of payments, Fed. Reserve Bank, New York, 46-51, sr. economist, 51-58; PROF. econ. & finance, PENNSYLVANIA, 58-67, ECON, 67- Spec. lectr, Columbia, 50; vis. prof, Hopkins, 61; Princeton, 63; City Col. New York, 65. Consult, Ford Found, Malaysia, 64. Adv, Bank of Korea, 49-50; adv, UN Civil Assistance Command, Korea, 52; U.S. Govt. Missions, Indo-China, 53, 54, Korea, 56, 60, Repub. of Congo, 66, 67, 68. Am. Econ. Asn; Royal Econ. Soc. International capital movements and monetary organization. Publ: Capital imports and the American balance of payments, 1934-39; Banking reform in South Korea & Monetary policy under the international gold standard, 1880-1914, Monogrs. Address: Dept. of Economics, University of Pennsylvania, Philadelphia, Pa. 19104.

BLOOMFIELD, DR. DANIEL, Econ, Mkt, see 10th ed, Soc. & Behav. Vols, deceased 63.

BLOOMFIELD, PROF. LINCOLN P(ALMER), b. Boston, Mass, July 7, 20; m. 48; c. 3. POLITICAL SCIENCE. B.S, Harvard, 41, Littauer fel. & M.P.A, 52, Rockefeller Found. fel, 55, Ph.D, 56. Staff asst, U.S. Dept. State, 46-56, spec. asst. policy planning to asst. secy. state, 56-57; mem. sr. staff, CENTER INT. STUDIES, MASS. INST. TECH, 57-, assoc. prof. POLIT. SCI, 59-63, PROF, 63-, DIR. ARMS CONTROL PROJ, 61-, UN proj, 57-61. Lectr, nat. & for. war cols. Consult, arms control & disarmament agency, U.S. Dept. State. Mem, coun. for. rels, Inst. Strategic Studies. International relations and organization; national security policy. Publ: Ed. & co-auth, Outer space: prospects for man and society; auth, UN and U.S. foreign policy, Little, 67; Controlling small wars, Knopf, 68. Address: Center for International Studies, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

BLOSS, PROF. M(ERRILENE) ESTHER, b. Blossvale, N.Y, 03. SOCIOLOGY. A.B, Cornell, 23; A.M, Columbia, 32, Ph.D, 38. Assoc. prof, Tex. State Col. for Women, 45-46; Hofstra Col, 46-47; Adelphi Col, 47-53; PROF. SOCIOL. & CHMN. DEPT. SOCIOL. & ANTHROP, GETTYSBURG COL, 53- Sociol. Asn. Social legislation. Publ: Labor legislation in Czechoslovakia with special reference to standards of international labor organization. Address: Dept. of Sociology & Anthropology, Gettysburg College, Gettysburg, Pa. 17325.

BLOUGH, DR. DONALD S(OMMERS), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

BLOUGH, PROF. ROY, b. Pittsburgh, Pa, Aug. 21, 01; m. 23; c. 3. ECONOMICS. A.B, Manchester Col, 21, LL.D, 44; A.M, Wisconsin, 22, Ph.D, 29; L.H.D, Columbia, 54. Asst. prof, Manchester Col, 22-24, assoc. prof, 24-25; statistician, State Tax Cmn, Wis, 27-30, chief statistician, 30-32; assoc. prof. econ, Cincinnati, 32-38, fel, grad. sch, 37-38; dir. tax res, U.S. Dept. Treas, 38-46, asst. to secy. treas, 44-46; prof. econ. & polit. sci, Chicago, 46-50; mem, Coun. Econ. Advisers President, 50-52; prin. dir, dept. econ. affairs, UN, 52-55; PROF. int. bus, COLUMBIA, 55-66, BANKING & INT. FINANCE, 66- Asst. dir. Fed. Emergency Relief Admin, 33-34; consult, Soc. Security Bd, 37, 38; ed, Nat. Tax J, 47-50. Mem, UN Tax Missions, Peru, 57, 59; res. adv. bd, Cmt. Econ. Develop, 53-66, proj. dir, int. studies subcmt, 65- Econ. Asn.(v.pres, 54); Polit. Sci. Asn; Finance Asn; Coun. For. Rel. International business and finance; economic policy; taxation and public finance. Publ: Federal taxing process; International business environment and adaptation, McGraw, 66. Address: 450 Riverside Dr, New York, N.Y. 10027.

BLOUNT, PROF. STANLEY, b. Detroit, Mich, June 12, 29; m. 57; c. 1. GEOGRAPHY. B.A, Wayne State, 52, M.A, 58; Ph.D.(geog), Northwestern, 62. Mkt. dir, Chrysler Corp, 52-58; asst. prof. GEOG, Illinois, 62-63; assoc. prof, Kent State, 63-67; PROF, STATE UNIV. N.Y. ALBANY, 67- Vis. prof, Univ. of the Americas, 66-67. U.S.A, 46-48. AAAS; Am. Planning & Civic Asn; Asn. Am. Geog. Latin American studies; economic development and planning in the emerging countries, especially Latin America. Publ: The Peace Corps in Venezuela and Bolivia, Kent State, 66; El desarrollo de valle de Isabela, Revista, 62; The St. Charles shopping center, Prfnl. Geogr, 64. Address: Dept. of Geography, 311 Social Science Bldg, State University of New York at Albany, Albany, N.Y. 12203.

BLOXSOME, JOHN L(ELAND), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BLUE, DR. JOHN T(ITUS), JR, Sociol, see 10th ed, Soc. & Behav. Vols.

BLUESTEIN, DR. VENUS W, b. Milwaukee, Wis, July 16, 33; m. 54. PSYCHOLOGY, EDUCATION. B.S, Cincinnati, 56, M.Ed, 59, D.Ed, 66. Psychologist in training, Longview State Hosp, 58-58; sch. psychologist, pub. schs, Ohio, 58-63; asst. PSYCHOL, CINCINNATI, 63-65, ASST. PROF, 65- Ohio State Dept. Ed. develop. grant, 67-69. Mem. adv. cmt. sch. psychol, State Dept. Ed, Ohio, 68- Psychol. Asn. The effects of preschool experiences on later academic success. Publ: An analysis of training programs in school psychology, summer 67 & Long-term effectiveness of remediation,

winter 68, J. Sch. Psychol; Factors related to and predictive of improvement in reading, Psychol. Schs, 7/67. Address: Dept. of Psychology, University of Cincinnati, Cincinnati, Ohio 45221.

BLUESTONE, DR. DAVID W(OLF), b. St. Louis, Mo, Oct. 6, 11; m. 39; c. 1. ECONOMICS. B.S, N.Y. Univ, 33; M.A, American Univ, 43, Ph.D.(econ), 53. Analyst & economist, Civil Aeronaut. Bd, 40-51; dir. air transport div, defense air transportation admin, U.S. Dept. Commerce, 51-57, dep. dir. transportation study & transportation economist, 60-61; dep. dir, off. planning & develop, Civil Aeronaut. Admin. & Fed. Aviation Agency, 57-59; dir. planning off, U.S. Civil Aeronaut. Bd, 61-65, V.PRES, SYSTS. ANAL. & RES. CORP, WASH, D.C, 65- Soc. Traffic & Transportation; Transportation Res. Forum. Publ: Problem of competition among domestic trunk airlines, J. Air Law & Commerce; Air transportation-some nonregulatory problems; co-auth, Rationale of federal transportation policy. Address: 9039 Sligo Creek Pkwy, Silver Spring, Md. 20901.

BLUHM, DR. ELAINE A(NN), Anthrop, see HEROLD, DR. ELAINE BLUHM.

BLUHM, DR. WILLIAM T(HEODORE), b. Newark, N.J, Oct. 13, 23; m. 50; c. 3. POLITICAL SCIENCE. A.B, Brown, 48; A.M, Fletcher Sch. Law, 49; Ph.D, Chicago, 57. Instr. POLIT. SCI, Rochester, 52-53; Brown, 53-57; asst. prof, ROCHESTER, 57-63, assoc. prof, 63-67, PROF, 67- Fulbright res. fel, Austria, 65-66. Sig.C, 43-46, Sgt. Polit. Sci. Asn; Soc. Legal & Polit. Philos. Political theory; international politics; comparative government. Publ: Theories of the political system, Prentice-Hall, 65; Causal theory in Thucydides' "Peloponnesian War," Polit. Studies; The place of the polity in Aristotle's theory of the ideal state, J. Polit. Address: 589 Bending Bough Dr, Webster, N.Y. 14580.

BLUM, PROF. ABRAHAM H(YMAN), b. Erie, Pa, May 25, 25; m. 46; c. 3. DEVELOPMENTAL PSYCHOLOGY. B.S, Wisconsin, 49; M.A, Cornell, 51, Ph.D.(child develop), 53. Instr. family life, Purdue, 52-54, asst. prof, 54-59; assoc. prof. home & family, Southern Illinois, 59-62; res. assoc. psychol, Clark, 62-65; assoc. prof, Boston, 65-67; PROF. ED. PSYCHOL, WISCONSIN, MILWAUKEE, 67- Nat. Inst. Ment. Health res. fel, 63-65; dir. psychol. res. sect. ment. retardation, Mass. Dept. Ment. Health, 64-67. U.S.A, 43-45. Psychol. Asn; Soc. Res. Child Develop. Personality development; cognitive development; family interaction. Publ: Relationship between rigidity-flexibility in children and their parents, Child Develop, 59; Spatial localization of the self in young children, In: Readings in psychology, Crowell, 65; co-auth, Children's cognitive style and response modification, J. Genetic Psychol, 67. Address: Dept. of Educational Psychology, University of Wisconsin-Milwaukee, Milwaukee, Wis. 53201.

BLUM, DR. ALBERT A(LEXANDER), b. New York, N.Y, Apr. 5, 24; m. 49; c. 2. INDUSTRIAL RELATIONS. B.S, City Col. New York, 47; M.A, Columbia, 48, Ph.D, 53. Asst. labor hist, Off. Chief Mil. Hist, 51-53; res. assoc. civil mil. rel, Twentieth Century Fund, 53-54; lectr. contemporary civilization, Queens Col, 54-57; asst. prof. indust. rels, N.Y. Univ, 57-58; Cornell, 58-59; ASSOC. PROF, American Univ, 59-60; LABOR & INDUST. RELS. & SOC. SCI, MICH. STATE, 60- Soc. Sci. Res. Coun. nat. defense res. grant, 58; Fulbright res. prof, Denmark, 68. Res. consult, Int. Labor Off, Geneva, 66-67. U.S.A.A.F, 43-45, Sgt. Indust. Rels. Res. Asn; Arbit. Asn. History of American labor movement; collective bargaining; union organization; civil and military relations; American social history; comparative labor; white collar unionization. Publ: Co-auth, Industrial relations and social change in Latin America, Univ. Florida, 65; auth, Drafted or deferred: policies past and present, Univ. Michigan, 67; Management and the white collar union, Am. Mgt. Asn, 63. Address: School of Labor and Industrial Relations, Michigan State University, East Lansing, Mich. 48823.

BLUM, DR. FRED H(ERMAN), b. Mannheim, Germany, Jan. 14, 14; nat. ECONOMICS, SOCIAL SCIENCE. Lic. es sci, Geneva, 38, univ. fel, 38-39; Loewy scholar, California, 41-42, Ph.D.(econ. & soc. insts), 52; Washington Sch. Psychiat, 47-49. Res. asst, trade regulation proj, California, 41, asst. statist, 42-44, lectr. army specialized training prog, 44; wage rate analyst, 10th Regional War Labor Bd, San Francisco, 44-45; res. assoc, Brookings Inst, 45; economist, Off. War Mobilization & Reconversion, 46-47; field worker action-res. proj, George A. Hormel & Co, 48-51, 54; asst. prof. & co-chmn. soc. sci. prog, Minnesota, 55-58, assoc. prof, 59-63; Nat. Asn. Ment. Health fel, 63-67; PRES, NEW ERA CENTER DEVELOP. NEW HUMAN CONSCIOUSNESS & SOC. ORDER, 67- Lectr. & asst. prof, eve. sch, Howard, 46-47, univ, 47-59, vis. assoc. prof, 54-55; lectr, Pendle Hill, 52-53; Swarthmore Col, 53. Consult, Michigan, 49-55; Friends Soc. Order Cmt, Pa, 54-65. Mem, subcmt. labor, U.S. Senate, 55-56. Econ. Asn; Sociol. Asn; Indust. Rels. Res. Asn; Soc. Study Social Probs; Soc. Anal. Psychol. Personality; mental health; industrial sociology; sociology of knowledge. Publ: Toward a democratic work process; Work and community, Routledge & Kegan Paul, London, 68; Meaning of Max Weber's postulate of freedom from value judgements, Am. J. Sociol. Address: The Barn, Flaunden, Hemel Hempstead, Hertfordshire, Eng.

BLUM, PROF. GERALD S, b. Newark, N.J, Mar. 8, 22; m. 46; c. 2. PSYCHOLOGY. B.S, Rutgers, 41; M.A, Clark, 42; Ph.D.(psychol), Stanford, 48. Asst. prof. PSYCHOL, MICHIGAN, 48-53, assoc. prof, 53-59, PROF, 59- Rackham res. fel, 53; Fulbright res. scholar, Italy, 54-55; Ford behav. sci. grant, 56; fel, Center Adv. Study Behav. Sci, 59-60. Consult, Vet. Admin, 49- U.S.A.A.F, 42-46. Psychol. Asn. Psychoanalytic behavior theory. Publ: Psychoanalytic theories of personality; The blacky pictures; A model of the mind. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

BLUM, JOHN C(URTIS), b. Terryville, Conn, July 5, 15; m. 39; c. 3. AGRICULTURAL ECONOMICS. B.S, Connecticut, 37, M.S, 39; Wisconsin, 41; U.S. Dept. Agr. Grad. Sch, 46; Indust. Col. Armed Forces, 65-66. Agr. economist land econ, bur. agr. econ, U.S. DEPT. AGR, 39-42, dairy mkt, dairy div, 42-54, chief, standards & prog. develop. br, agr. mkt. serv, 54-60, asst. dir, 60-61, dir, 61-63, economist, off. of adminstr, CONSUMER & MKT. SERV, 63-64, asst. dep. adminstr, 64-67, DEP. ADMINSTR, 67- Agr. Econ. Asn; Acad. Polit. & Social. Sci. Dairy marketing; agricultural policy. Publ: Summer homes and the rural economy, Bull, N.H. Agr. Exp. Sta. Address: 7501 Walton Lane, Annandale, Va. 22003.

BLUM, PROF. LAWRENCE P(HILIP), b. Webster, Wis, Feb. 14, 17. PSYCHOLOGY. B.S, Wisconsin, 39, M.S, 43, Ph.D.(ed), 47. Asst. prof. & counsr, Mich. State, 47-49; assoc. prof. ed, WISCONSIN, MILWAUKEE, 50-65, PROF. ED. PSYCHOL, 65- U.S.A.A.F, 43-46. Fel. Psychol. Asn; Personnel & Guid. Asn. Aptitude testing; interviewing techniques. Publ: Comparative study of persons preparing for five selected professions including teaching, J. Exp. Ed; Student personnel services at university affiliated evening schools, Occupations. Address: 3203 N. Downer Ave, Milwaukee, Wis. 53201.

BLUM, PROF. LESTER, b. New York, N.Y, June 25, 19. AGRICULTURAL ECONOMICS. B.S, Mich. State, 42; fel, Iowa State, 43-44, M.S, 44, Ph.D, 49. Economist, Off. Price Admin, D.C, 42-43; res. & exten. assoc, Iowa State, 44-47; asst. prof. AGR. ECON, COLGATE, 47-52, assoc. prof, 52-57, PROF, 58- Fel, Fund Adv. Ed, Stanford, 54. Consult, Off. Price Stabilization, D.C, 51-52. Pub. mem, State Minimum Wage Bd. for Cleaning & Dyeing Indust, N.Y, 56-58. Economet. Soc. Labor economics; job analysis in agriculture. Address: Dept. of Economics, Colgate University, Hamilton, N.Y. 13346.

BLUM, DR. LUCILLE HOLLANDER, b. New York, N.Y, Aug. 29, 04; m. 25; c. 2. BEHAVIORAL SCIENCES. B.S, Columbia, 40, M.A, 42, Ph.D.(psychol), 49; cert. psychother, Post-Grad. Center Ment. Health, 53. Psychol. consult, cerebral palsy pre-sch. center, Lenox Hill Hosp, N.Y, 47-51; SR. SUPVR. & TRAINING ANALYST, PSYCHOANAL. PSYCHOTHER, POST-GRAD. CENTER MENT. HEALTH, 50- Spec. lectr. personality develop. & psychol, sch. dent. & oral surg, col. physicians & surgeons, Columbia Presby. Med. Center, 49-57, lectr. postgrad. course cerebral palsy, dept. phys. med, 52-53, res. assoc. psychol, inst. psychol. res, Columbia, 50-51. Mem. res. adv. bd, Vis. Nurse Serv. N.Y, 55-58. Emil Gutheil award, Post-Grad. Center Ment. Health, 60. Am. Psychol. Asn; Soc. Res. Child Develop. Application of developmental psychology principles to clinical practice; application of personality theory and concepts to professional health services, especially education of workers in professional health fields. Publ: Columbia mental maturity scale, Harcourt, 54; Some psychological and educational aspects of pediatric practice: a study of well-baby clinics, Genetic Psychol. Monogr, 50; Some psychological aspects of dental practice: a study of the individual's response to care of his teeth, Ment. Hyg, 10/63. Address: 3 E. 67th St, New York, N.Y. 10021.

BLUM, DR. MARTIN A(LEXANDER), b. New York, N.Y, Apr. 5, 26; m. 58; c. 3. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Cornell, 50, Ph.D. (mkt, econ. theory), 57; M.S, Purdue, 52. Asst. agr. econ, Purdue, 50-52; Cornell, 52-56; agr. economist, farmer coop. serv, U.S. DEPT. AGR, 56-62, chief fruit & veg. br, 62-66, head fruit sect, econ. & statist. anal. div, econ. res. serv, 66-67, DIR. COOP. APPRAISAL DIV, FARMER COOP. SERV, 67- U.S.A.A.F, 44-46. Farm Econ. Asn. Marketing of livestock, fruits and vegetables; economic development and market structure research. Publ: Measurement of rate of movement of apples into consumption using the retail store-customer observation method; Fresh fruit and vegetable marketing organizations in the northeastern and central states; co-auth, Cost of operating selected Indiana livestock markets. Address: 8408 Ravenswood Rd, Hyattsville, Md. 20784.

BLUM, DR. MILTON L, b. New York, N.Y, July 16, 12; m. 36; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 33; M.A, Columbia, 35; Ph.D.(psychol), N.Y. Univ, 40. Asst. prof. psychol, City Col. New York, 33-48, assoc. prof, 48-52, prof, 52-61; pres. mkt, Merchandising & Res, Inc, 61-66; EXEC. V.PRES. MKT. RES, ALFRED POLITZ RES, 66- Dir. field studies, John B. Pierce Found, 41-42; Robert L. Davidson & Assocs, 42-44. Consult, N.W. Moody & Co, 54- Fel. Psychol. Asn. Consumer psychology; attitude measurement; testing in industry. Publ: Readings in industrial and experimental psychology; co-auth, Counseling and psychology; Industrial psychology—its social and theoretical foundations, Harper, 68. Address: Browers Point Br, Woodmere, N.Y. 11598.

BLUM, DR. RICHARD H(OSMER), b. Ft. Wayne, Ind, Oct. 7, 27; m. 57. PSYCHOLOGY. A.B, San Jose State Col, 48; fel, Washington (Seattle), 49-50; Ph.D.(psychol), Stanford, 51. Intern psychol, dept. psychiat, San Quentin Prison, 49; asst, Hoover Inst. & Library, Stanford, 49-51, lectr. psychol, univ, 55-56; assoc. scientist, Stanford Res. Inst, 53-56; res. dir, Calif. Med. Asn, 56-58; consult, San Mateo County Dept. Pub. Health & Welfare, 59-61; lectr. criminol, California, Berkeley, 62-64; PROJ. DIR. PSYCHOPHARMACOL. INST. STUDY HUMAN PROBS, STANFORD, 64- Lectr, Center Training Community Psychiat, Berkeley, 61-; pres. Bio-Behav. Res. Group Inc, 64- Consult, San Mateo County Sheriff's Dept, 59-61; President's Cmn. Law Enforcement & Admin. Justice, 66-67; consult, bur. med, U.S. Food & Drug Admin. & mem. cmt. psychotomimetic drugs, U.S. Food & Drug Admin-Nat. Insts. Health, 67- Med.Serv.C, 51-53, 1st Lt. AAAS; Psychol. Asn; Sociol. Asn; Pub. Health Asn; Archaeol. Inst; Int. Soc. Criminol. Psychopharmacology, epidemiology, psychophysiology; criminology, crime prevention; police administration, community relations; folklore studies. Publ: Co-auth, Health and healing in rural Greece, Stanford, 65; The dangerous hour: Greek folklore studies, Chatto & Windus, 67; Alcoholism: modern psychological approaches to treatment, Jossey-Bass, 67. Address: 480 Whiskey Hill Rd, Woodside, Calif. 94062.

BLUM, ROBERT, b. New York, N.Y, Jan. 18, 15; m. 39; c. 2. ECONOMICS. B.A, Wisconsin, 38, M.A, 39; Littauer fel, Harvard, 40-41. Acting chief indust. resources br, div. int. & functional intel, U.S. Dept. State, 47-48; dep. to dir. & economist, off. energy & utilities, Nat. Security Resources Bd, Exec. Off. President, 48-51, consult. & dir. energy resources group, President's Mat. Policy Cmn, 51-52; energy consult. & economist, For. Opers. Admin. & Resources for the Future, Inc, 52-53; overseas territories officer, U.S. Opers. Mission to U.K, Am. Embassy, London, Eng, 53-55; energy consult. & economist, 55-57, power economist, power reactor div, U.S. Atomic Cmn, 57-62; econ. div, U.S. Fed. Power Cmn, 62-66; ECON. CONSULT, 66- Lectr, U.S. Dept. Agr. Grad. Sch, 66- U.S.N, 43-46, Lt.(jg). Econ. Asn; Nuclear Soc; Soc. Int. Develop; Soc. Pub. Admin. Overall en-

ergy, power and nuclear generation; industrial production; economic and financial development in the United States and foreign countries; urban development and transportation. Address: 3707 Williams Lane, Chevy Chase, Md. 20015.

BLUM, DR. ROBERT, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

BLUM, DR. STUART H(OLLANDER), b. New York, N.Y, Feb. 23, 29. PSYCHOLOGY. B.A, Columbia, 49, M.A, 50, Ph.D, 60; cert, Denver, 52. Asst, teachers col, Columbia, 50-51, U.S. Air Force proj, inst. psychol. res, 55-56; lectr, sch. ed, City Col, 56-58; asst. anal. & res, Bd. Higher Ed, New York, 59-60; coordinator ed. testing & studies, Hofstra, 60-65, res. assoc. ED, 65; ASST. PROF, BROOKLYN COL, 65- U.S.A.F, 51-55. Psychol. Asn; N.Y. Acad. Sci; Nat. Coun. Measurement in Ed. Psychological and educational measurement; human resources utilization; experimental design; vocational and educational counseling. Publ: Security in vocational choice: study of male college upperclassmen, Dissertation Abstracts; Desire for security: element in the vocational choice of college men, J. Ed. Psychol. Address: 401 E. 74th St, New York, N.Y. 10021.

BLUM, VIRGIL C(LARENCE), S.J, b. Defiance, Iowa, Mar. 27, 13. POLITICAL SCIENCE. A.B, St. Louis, 38, A.M, 45, Ph.D, 54; Chicago, 50-51. Instr. POLIT. SCI, Creighton, 53-54, asst. prof, 54-56; MARQUETTE, 56-58, assoc. prof, 58-61, PROF, 61- Polit. Sci. Asn. Civil liberties; constitutional law; American national government; freedom, diversity and competition in education; the importance of a free, unencumbered choice in education in an open, pluralistic society. Publ: Freedom of choice in education, Macmillan, 58; Freedom in education, Doubleday, 65; Religious liberty and the religious garb, Univ. Chicago Law Rev. Address: Dept. of Political Science, Marquette University, 1303 W. Wisconsin Ave, Milwaukee, Wis. 53233.

BLUMBERG, DR. ABRAHAM SAMUEL, b. New York, N.Y, June 27, 21; m. 42; c. 2. B.A, Brooklyn Col, 42; LL.B, Columbia, 46; Ph.D.(sociol), New Sch. Soc. Res, 65. Lectr. sociol, Queens Col.(N.Y), 63-65; asst. prof, State Univ. N.Y. Stony Brook, 65-67; CHMN. DIV. SOC. SCI, JOHN JAY COL, CITY UNIV. NEW YORK, 67- Private practice of law, 47-; lectr, Brooklyn Col, 56-67. Mem, U.S. Supreme Court Bar, 60-; President's Cmt. Juvenile Delinquency, 65-67; Governor's Spec. Cmt. Criminal Offenders, N.Y, 67-; President's Nat. Adv. Cmn. Civil Disorders, 67- Sociology of law; bureaucracy and deviance. Publ: Criminal justice, Quadrangle, 67; Covert contingencies in the right to the assistance of counsel, Vanderbilt Law Rev, 4/67; Problems of objectivity in sentencing, Soc. Forces, 9/67. Address: John Jay College, City University of New York, 315 Park Ave. S, New York, N.Y. 10010.

BLUMBERG, PROF. LEONARD, b.Philadelphia, Pa, Aug. 19, 20; m. 43; c. 4. SOCIOLOGY. B.A, Wayne, 47, M.A, 49; Ph.D, Michigan, 55. Instr. SOCIOL, TEMPLE, 55-56, asst. prof, 56-59; assoc. prof, 59-65, PROF, 65-, consult, sociologist, skid row proj, med. sch, 56-61, chmn. dept. sociol, 58-62. Res. dir. & consult, Urban League Phila, 56-60; co-dir. res, Phila. Diag. & Relocation Center, 61-; prog. dir, Nat. Inst. Ment. Health proj, 67- Fel. Sociol. Asn; Soc. Study Social Probs. Applications of social science to community problems; social politics, conflict and power structive analysis; alcohol drinking behavior. Publ: Contrib, Men on skid row; co-auth, Determination of local power elites, Am. J. Sociol. & Development, major goals and strategies of a skid row program: Philadelphia, Quart. J. Studies Alcohol, 6/66. Address: Dept. of Sociology, Temple University, Philadelphia, Pa. 19122.

BLUMBERG, DR. M(ORTIMORE), Psychol, see 10th ed, Soc. & Behav. Vols.

BLUMBERG, DR. STANLEY, b. Waukegan, Ill, May 21, 21; m. 43; c. 2. PSYCHOLOGY. B.A, Chicago, 42; M.A, Northwestern, 58, Ph.D.(psychol), 60. Instr. psychiat, SOUTHWEST. MED. SCH, TEXAS, 60-62, asst. prof. psychiat. & psychol, 62-67, ASSOC. PROF. PSYCHOL, 67- Consult, Terrell State Hosp, Tex, 60-; Vet. Admin. Center, Temple, Tex, 67-68. U.S.A.A.F, 42-46, Sgt. Psychol. Asn. Clinical psychology. Address: 11118 Eastview Circle, Dallas, Tex. 75230.

BLUME, DR. GEORGE TERRILL, b. Richmond, Va, Sept. 20, 25. RURAL SOCIOLOGY. B.S, Va. Polytech, 50; M.A, La. State, 52; Ph.D, Missouri, 57. Asst. rural sociol, La. State, 50-52; asst. to dir, rural church proj, Missouri, 52-54, instr. RURAL SOCIOL, 54-55; asst. prof, VA. POLYTECH, 55-61, ASSOC. PROF, 61- Consult, 61. Mem. nat. adv. cmt, Ark. Spec. Youth Proj, 64-66; dir, Off. Econ. Opportunity Upward Bound Proj, Va. Polytech, 67- U.S.A, 43-46, Sgt. Sociol. Soc; Rural Sociol. Soc. Structure and function of rural churches; Virginia's population changes and their significance; rural youth and their career success. Publ: Some facts about Virginia's people; Church in rural Missouri; Exploring opportunities. Address: Dept. of Sociology, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

BLUME, DR. NORMAN, b. New Haven, Conn, July 2, 24; m. 53; c. 2. POLITICAL SCIENCE. B.A, Connecticut, 48; A.M, Boston, 51; Ph.D, Ohio State, 56. ASST. PROF. POLIT. SCI, TOLEDO, 56- Outstanding Teacher award, Toledo, 67. U.S.A.A.F, 43-45. Polit. Sci. Asn. Political campaigns; analysis of local group's public relations campaigns; developing society. Publ: Municipal home rule in Ohio, Western Reserve Law Rev; Group cohesion in political campaigning: a case study, Soc. Sci; Contemporary Brazilian pressure groups: a case study, Studies in Comp. Int. Develop, 68. Address: Dept. of Political Science, College of Arts & Science, University of Toledo, Toledo. Ohio 43606.

BLUMEN, PROF. ISADORE, b. Newark, N.J, June 1, 20. STATISTICS. Ph.D. (math. statist), North Carolina, 54. Assoc. prof. STATIST, STATE UNIV. N.Y. SCH. INDUST. & LABOR REL, CORNELL, 56-61, PROF, 61- Mathematical statistics; socio-economic processes. Address: School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

BLUMENFELD, PROF. ARTHUR A, b. New York, N.Y, Apr. 4, 32; m. 54; c. 2. ECONOMICS. B.B.A, New Mexico, 54, M.A, 62; Colorado, 66-67. Staff economist, N.Mex. Econ. Develop. Cmn, 57-58; from assoc. economist to asst. economist, bur. bus. res, Univ. New Mexico, 58-64; dep. dir, N.Mex. Dept. Finance & Admin, 64-65; ASST. PROF. BUS. ADMIN, NEW MEXICO & DIR. BUR. BUS. RES, 65- Mem. Regional Export Expansion Coun, Dept. Commerce. Econ. Asn; Regional Sci. Asn; Nat. Tax Asn. Regional economics; economic development; public finance; economics of poverty; contribution of technology to economic growth. Publ: Trends in personal income in New Mexico and the United States, 61, Effects of New Mexico's social and economic structure upon governmental expenditures, 61 & New Mexico's population since 1910, 62, Bur. Bus. Res, Univ. New Mexico. Address: 6017 Redondo Court, N.W, Albuquerque, N.Mex. 87107.

BLUMENTHAL, PROF. ALBERT (BAILIE), b. Philipsburg, Mont, July 19, 02; m. 25; c. 1. SOCIOLOGY. A.B, Montana State, 26, M.A, 27; Ph.D.(sociol), Chicago, 33. Prof. econ. & sociol, Seton Hill Col, 32-34; instr. sociol, Dartmouth Col, 35-37; asst. prof. econ. & sociol, Marietta Col, 37-39; assoc. prof. sociol, Northwest Mo. State Col, 39-42; dep. probtn. officer, Los Angeles County Probtn. Dept, Calif, 44-47; prof. sociol, Col. Puget Sound, 47-49; assoc. prof. SOCIOL. & SOC. WORK, South Dakota, 49-53; Bradley, 53-57; WIS. STATE, EAU CLAIRE, 57-62, PROF, 62- Sociol. Asn. Criminology and juvenile delinquency; the family; sociological theory. Publ: Small-town stuff; New definition of culture, Am. Anthropologist; Inductive study of the nature of culture, Social Forces. Address: 2740 Agnes St, Eau Claire, Wis. 54701.

BLUMENTHAL, LEROY H(IRSCHFIELD), b. New Orleans, La, Aug. 7, 15; m. 49; c. 1. PSYCHOLOGY. B.A, N.Y. Univ, 48; M.S, Illinois, 51. Psychologist, Scholar. & Guid. Asn, 50-51; Inst. Juvenile Res, 51-54; CLIN. PSYCHOLOGIST, JEWISH CHILDRENS BUR, 59- Psychol. consult, Family Serv. Highland Park, Ill, 65- U.S.N, 42-46. Psychol. Asn. Publ: Principles of agency school cooperation in a program for emotionally disturbed children, Am. J. Orthopsychiat. Address: 3125 W. Fargo Ave, Chicago, Ill. 60645.

BLUMENTHAL, DR. MURRAY, b. New York, N.Y, May 21, 26; m. 49; c. 3. EXPERIMENTAL PSYCHOLOGY. B.M.E, Denver, 52, M.A, 53, Ph.D, 59. Lectr. psychol, Denver, 55-56, instr, 56-59; asst. prof, Chico State Col, 59-61; dir. res. dept, Nat. Safety Coun, 61-66; SR. RES. SCIENTIST, TRAVELERS RES. CENTER, INC, 66- Consult, Nat. Bur. Standards, 66-67. Mem, res. bd. adv. cmt. nonrail transit vehicles, Secy. Housing & Urban Develop, 67-; Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun. U.S.A, 43-45, Sgt. Psychol. Asn; Human Factors Soc. Creativity; muscle tension and thought; systems and procedures for the investigation of traffic collisions. Publ: Traffic accident prevention research as a system component, Pub. Health Reports, 6/66; Accident prevention research design, Arch. Environ. Health, 10/66; Dimensions of the traffic safety problem, Soc. Automotive Engrs, 1/67. Address: Travelers Research Center, Inc, 250 Constitution Plaza, Hartford, Conn. 06103.

BLUMENTHAL, DR. SAUL, Math. Statist, see Suppl. II to 11th ed, Phys. & Biol. Vols.

BLUMENTHAL, DR. SEYMOUR MARTYNS, b. New York, N.Y, Apr, 20, 06; m. 29; c. 2. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 31; M.A, Pennsylvania, 33; Ph.D.(clin. psychol), N.Y. Univ, 43. Head psychologist, Adult Guid. Serv, N.Y, 34-36; psychologist, Domestic Rels. Court, 36-37; sr. psychologist, Elmira Reformatory, 37-39; psychologist, Bellevue Psychiat. Hosp, 40-43; consult. psychologist, Youth House & Girls Camp, 44-48; prof. psychol. & consult. psychologist, Miami (Fla), 48-50; CONSULT, PSYCHOLOGIST & MARRIAGE COUNSR, 50- Dipl, Am. Bd. Exam. Clin. Psychol, 48; Am. Bd. Exam. Psychol. Hypnosis, 61. U.S.A, 40, Lt. AAAS; fel. Psychol. Asn. Psychotherapy; marriage counseling; emotional problems. Publ: Factorial analysis of spatial relations ability; Professional opportunities in communal services. Address: 436 Ingram Bldg, 25 S.E. Second Ave, Miami, Fla. 33131.

BLUMENTHAL, SOL, b. Brooklyn, N.Y, Aug. 1, 29. STATISTICS. B.S, City Col. New York, 55; M.B.A, N.Y. Univ, 58; Columbia, 56-59; New Sch. Soc. Res, 59-62. Asst. statistician, NEW YORK CITY DEPT. HEALTH, 55-57, statistician 57-59, sr. statistician, 59-66, SR. RES. SCIENTIST, 66- Instr, N.Y. Univ, 61-62. U.S.A, 51-53. Sociol. Asn; Pub. Health Asn; Statist. Asn; Biomet. Soc. Statistical methodology in collection and analysis of new facts; testing and evaluation of hypotheses in public health and sociology. Address: 3033 Brighton 14th St, Brooklyn, N.Y. 11235.

BLUMENTHAL, DR. WERNER MICHAEL, b. Germany, Jan. 3, 26; nat; m. 51; c. 3. ECONOMICS. B.S, California, 51, M.P.A, 53; M.A, Princeton, 53, Soc. Sci. Res. Coun. fel, 53-54, Ph.D, 56. Res. assoc, Princeton, 54-57; v.pres. & dir, Crown Cork Int, Inc, 57-61; dep. asst. secy, U.S. Dept. State, 61-63; U.S. ambassador, President's Spec. Rep. Trade Negotiations, Geneva, 63-67; DIR. BENDIX INT, 67- Econ. Asn. Publ: Labor co-determination in the German steel industry; Disability retirement in industrial pension plans. Address: Bendix International, 111 W. 50th St, New York, N.Y. 10020.

BLUMER, PROF. HERBERT, b. St. Louis, Mo, Mar. 7, 00; m. 22, 42; c. 3. SOCIAL PSYCHOLOGY. A.B, Missouri, 21, A.M, 22; Ph.D, Chicago, 28. Instr. SOCIOL, Chicago, 27-30, asst. prof, 30-31, assoc. prof, 31-47, prof, 47-52; PROF. & CHMN. DEPT, CALIFORNIA, BERKELEY, 52-, DIR. INST. SOC. SCI, 59- Ed, Am. J. Soc, 42-53. Chmn. bd. arbit, U.S. Steel Corp, 45-47. Liaison officer, Off. War Intel, 43. Sociol. Asn.(secy, 30-35, pres, 55); Soc. Study Social Probs.(pres, 54); Sociol. Res. Asn. Collective behavior; social psychology; race relations; industrial sociology. Publ: Movies and conduct; Appraisals of research in the social sciences I; Collective behavior, In: Outlines of principles of sociology. Address: 350 Pine Creek Rd, Walnut Creek, Calif. 94598.

BLUMIN, DR. STUART, Am. Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BLUMSTEIN, DR. ALFRED, Opers. Res, see 11th ed, Phys. & Biol. Vols.

BLUMSTOCK, DR. ROBERT EDWARD, b. New York, N.Y, Oct. 5, 34; m. 58; c. 2. SOCIOLOGY. B.A, City Col. New York, 56; Ph.D.(sociol), Oregon, 64. Instr. SOCIOL, Connecticut, 62-64; ASST. PROF, McMASTER, 64- Soc. Sci. Res. Coun. Can. summer travel grant, Hungary, 66. U.S.A, 57-59. Sociol. Asn; Can. Sociol. & Anthrop. Asn. Sociology of religion; mass society; elites; theory. Publ: Anglo-Saxon lament, Can. Rev. Sociol, 5/66; Mission to Jews: reduction of inter-group tension, Practical Anthrop, 1-2/67. Address: Dept. of Sociology, McMaster University, Hamilton, Ont, Can.

BLYN, PROF. GEORGE, b. New York, N.Y, May 2, 19; m. 52; c. 2. ECONOMICS, GEOGRAPHY. B.A, Pennsylvania, 51, Harrison fel, 52-53, M.A, 53, Ph.D, 61. ASST. PROF. ECON, Villanova, 54-62; COL. S.JERSEY, RUTGERS, 62-, CHMN. DEPT. ECON. & BUS, 67- Res. assoc, Inst. Econ. Develop. & Cultural Change, 57-58; faculty fel, Am. Inst. Indian Studies, Poona, India, 65-66. U.S.A, 43-46. Econ. Asn; Asn. Am. Geog. Economic theory; international economic relations; economic geography; economic change in India, especially rural areas and agricultural sector. Publ: Agricultural trends in India, 1819-1947: output, availability, and productivity, Univ. Pennsylvania, 66; India: its economy, In: Collier's Encyclop, 65; Measurement of agricultural growth rates in India, Indian J. Agr. Econ, 67. Address: Dept. of Economics, College of South Jersey, Rutgers, The State University, Camden, N.J. 18102.

BLYTH, DR. DAVID D(E-WALLER), b. Cleveland, Ohio, July 30, 17; m. 45; c. 2. CLINICAL PSYCHOLOGY. B.Sc, Ohio State, 40, Ph.D, 53; M.A, Western Reserve, 42. Veteran's counsr, Wayne State, 46; clin. psychol. trainee, Vet. Admin. Ment. Hyg. Clin, Columbus, Ohio, 47-51; clin. psychologist & assoc. dir, children's ment. health center, Columbus, 51-63; PRES. PSYCHOL. SERV. INC, 63- Lectr, Ohio State, 54-61; Capital Univ, 64. U.S.A, 43-44; U.S. Merchant Marine, 44-45. AAAS; Soc. Mammal; Psychol. Asn; Orthopsychiat. Asn. Psychotherapy; human ecology; mammalian population cycles. Publ: Dependence, independence and other factors related to veterans reactions to an offer of psychotherapy; Relationships between Rorschach scores and adjustment level. Address: 5580 Olentangy River Rd, Worthington, Ohio 43085.

BOAG, PROF. T(HOMAS) J(OHNSON), Psychiat, see 11th ed, Phys. & Biol. Vols.

BOALS, GORDON P(ORTER), b. Dakota City, Nebr, Oct. 18, 05; m. 35; c. 2. INTERNATIONAL ECONOMICS. A.B, Whitman Col, 26; M.S, Ore. State Col, 29; U.S. Dept. Agr. Grad. Sch, 31-32; American Univ, 32-33; Berlin, 35-37. Instr. & jr. economist, Ore. State Col, 28-31; asst. agr. economist, bur. agr. econ, U.S. Dept. Agr, 31-34, sr. agr. economist in charge for. grain sect, 39-43, head grain div, off. agr. rel, 50-52; asst. agr. attaché, Am. Embassy, Berlin, 34-39; secy. cereals cmt, Combined Food Bd, D.C, 43-46; Int. Emergency Food Coun, 46-49; DIR. EXPORT PROGS, MILLERS NAT. FEDN, 52-; DIR, BULGUR ASSOCS, 66- Chief grain sect, Food & Agr. Orgn, UN, 46-49; secy-gen, Int. Wheat Coun, Eng, 49. Econ. Asn; Farm Econ. Asn; Acad. Polit. & Soc. Sci. International trade; economic development; farm policy. Publ: International wheat agreement; Flour milling in importing countries; Economic development and wheat food processing industries. Address: Millers National Federation, 752 National Press Bldg, Washington, D.C. 20004.

BOAN, DR. FERN (ODETTE), b. Barnett, Mo, Aug. 4, 96. SOCIOLOGY. B.S, Missouri, 21; A.M, Chicago, 26, Ph.D, 40. Vis. teacher, pub. schs, Iowa, 26-31; asst, Chicago, 31-33; intake supvr, child placing agency, Chicago, Ill, 33-35; asst. prof, Fla. State Col, 35-36; in-serv. training dir, State Dept. Pub. Welfare, Okla, 37-38; prof. soc. work, Oklahoma, 38-53; Supvr. Family Serv. of Kansas City, 53-67, RETIRED. History of poor relief legislation and administration in Missouri. Address: 1909 Harris St, Independence, Mo. 64052.

BOAN, DR. JOHN ALEXANDER, b. Briercrest, Sask, Dec. 16, 17; m. 49; c. 3. ECONOMICS. B.A, Saskatchewan, 49; Ph.D.(econ), Ohio State, 53. Economist, Govt. Can, 49-62; ASSOC. PROF. ECON, SASKATCHEWAN, REGINA, 61- Res. staff, Royal Cmn. Health Serv, Govt. Can, 61-62. R.C.A.F, 40-45, Sgt. Am. Econ. Asn; Can. Econ. Asn; Royal Econ. Soc. The economics of resource development, especially water; economics of health care, especially health services personnel organization and productivity. Publ: Group practice, Can. Queen's Printer, 66; A study of farmers' reactions to uncertain price expectations, J. Farm Econ, 2/55; The significance of reservoirs in recreation, Resources Tomorrow Conf, Ottawa, Queen's Printer, 61. Address: Dept. of Economics, University of Saskatchewan Regina Campus, Regina, Sask, Can.

BOARD, PROF. JOSEPH BRECKINRIDGE, b. Princeton, Ind. Mar. 5, 31; m. 55; c. 2. POLITICAL SCIENCE, LAW. A.B, Indiana, 53, fel, 55-58, J.D, 58, Ph.D.(govt), 62; Rhodes scholar, Oxford, 53, B.A, 55, M.A, 61. Lectr. POLIT. SCI, Indiana, 58-59; asst. prof. Elmira Col, 59-61; assoc. prof. & chmn. dept, Cornell Col.(Iowa), 61-64, prof, 64-65; PROF. & CHMN. DEPT, UNION COL.(N.Y), 65- Nat. Defense Ed. Act fel, summer 63; Am. Philos. Soc. res. grant, 66-67. Mem, Rhodes Scholar. State Selection Cmt, Nebraska, 61-62, Iowa, 63-64; Woodrow Wilson Nat. Fel. Selection Cmt, Region III, 65-67. Polit. Sci. Asn. International law and relations; comparative government in Western & Eastern Europe and Latin America. Address: Dept. of Political Science, Union College, Schenectady, N.Y. 12308.

BOARDMAN, DR. WILLIAM K(ILBOURNE), b. Tarboro, N.C, July 25, 25; m. 51; c. 3. PSYCHOLOGY. Fel. & Ph.D.(psychol), Duke, 56. Instr. psychol, col. med, Baylor, 56-59, asst. prof, 59-63; assoc. prof. psychiat, sch. med, Emory, 63-65, psychiat. & psychol, 65-67; PROF. PSYCHOL, GEORGIA, 67- Res. specialist, Houston State Psychiat. Inst, 60-63; dir. training & res. psychol, Ga. Ment. Health Inst, 65-67. U.S.N.R, 43-46, 51-53, Lt. Psychol. Asn; Group Psychother. Asn. Clinical psychology; perception; cognition. Address: Dept. of Psychology, University of Georgia, Athens, Ga. 30601.

BOARMAN, DR. PATRICK M, b. Buffalo, N.Y, Apr. 23, 22; m. 53; c. 4. ECONOMICS. A.B, Fordham, 43; M.S, Columbia, 46; fel, Geneva, 46-48, Ph.D. (econ), 65; Fulbright fel, Amsterdam, 49-50; Ford Found. fel, Michigan, 58. Dir. off. cultural affairs, Nat. Cath. Welfare Conf, Bonn, Germany, 51-55; asst. prof. ECON, Wisconsin, Milwaukee, 56-62; assoc. prof, Bucknell, 62-67; PROF, C.W. POST COL, LONG ISLAND, 67-; DIR. RES. REPUBLICAN CONF, U.S. HOUSE REP, 67- Vis. prof, Geneva, 65-66. Sr. consult, Gen. Elec. Co, N.Y, 64-65; consult, Republican Nat. Cmt, D.C, 67. Order of Merit, West Germany, 56. U.S.A, 43. Am. Econ. Asn; fel. Royal Econ. Soc. International economy; religious, ethical and political foundations of the market economy; theory of the firm; comparative economic growth. Publ: Translator, Economics of the free society, Regnery, 63; auth, Union monopolies and antitrust restraints, Labor, 63; Germany's economic dilemma, Yale, 64. Address: Dept. of Economics, C.W. Post College, Long Island University, Greenvale, N.Y. 11548.

BOAS, PROF. CHARLES W(ILLIAM), b. Harrisburg, Pa, Sept. 5, 26; m. 54; c. 4. GEOGRAPHY. A.B, Lafayette Col, 49; M.A, Virginia, 50; fel, Michigan, 54, Ph.D, 56. Instr. geog, Mich. State, 55-57, asst. prof, 57-61; private practice, 61-66; prof. soc. sci. & chmn. dept, Harrisburg Area Community Col, 66-68; PROF. GEOG, YORK JR. COL, 68- U.S.N.R, 44-46. Asn. Am. Geog; Geog. Soc; Nat. Coun. Geog. Ed. Geographic field techniques; air photo interpretation; industrial location analysis; Anglo-American geography; history of American circus industry. Publ: Manufacturers of automotive parts & supplies in Michigan, 1959, Papers Mich. Acad, 61; Locational patterns of American automobile assembly plants, 1895-1958, Econ. Geog, 7/61; co-auth, Hypothetical regions as teaching aids in economic geography, J. Geog, 9/63. Address: R.D. 1, Abbottstown, Pa. 17301.

BOBBITT, DR. JOSEPH M(ATTHEW), b. St. Joseph, Mo, Oct. 26, 08; m. 49; c. 1. PSYCHOLOGY. A.B, Southern California, 31, A.M, 32; Ph.D.(psychol), Northwestern, 37. Instr. psychol, Mich. State, 37-41, asst. prof, 41-42; chief psychologist, Nat. Inst. Ment. Health, 46-51, chief, prfnl. servs. br, 51-57, asst. dir, 57-60, assoc. dir. prog. develop, 60-64; asst. dir. manpower develop, Nat. Inst. Child Health & Human Develop, 64-65, assoc. dir. planning, 65-66; EXEC. DIR, JOINT CMN. MENT. HEALTH CHILDREN, 66- Consult, Hogg Found. Ment. Health, 59-; Nat. Inst. Child Health & Human Develop, 67- Chmn. adv. cmt, Clearinghouse Early Childhood Ed, Illinois, Urbana, 67-, mem. adv. cmt, Nat. Lab. Early Childhood Ed, 67- U.S.C.G, 42-46. Fel. Psychol. Asn.(Harold M. Hildreth award, 67); Psychopath. Asn; Soc. Res. Child Develop. Perception, attitude measurement and change; social psychological influences on mental health. Address: Joint Commission on Mental Health of Children, Barlow Bldg. Suite 725, 5454 Wisconsin Ave, Chevy Chase, Md. 20015.

BOBER, PROF. M(ANDELL) M(ORTON), Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

BOBROFF, DR. ALLEN, b. Detroit, Mich, Oct. 1, 21; m. 52; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Michigan, 48; M.Ed, Wayne State, 54; Ph.D, Chicago, 58. Teacher, pub. schs, Mich, 52-55; prof. ed, State Univ. N.Y, 57-60; asst. prof. ED. PSYCHOL, MICHIGAN, 60-67, ASSOC. PROF, 67- U.S.A.F, 42-46, Res, 46-, Lt. Col. Psychol. Asn; Asn. Ment. Deficiency; Soc. Res. Child Develop; Ed. Res. Asn. Child development; tests and measurements. Publ: The economic adjustment of 121 adults formerly in classes for the mentally retarded, Am. J. Ment. Deficiency; The stages of maturation on socialized thinking and in the ego development of two groups of children, Child Develop; Another look at evaluation and measurement, Univ. Michigan, Ed. Bull, 64. Address: University of Michigan, 105 Division N, Grand Rapids, Mich. 49502.

BOBROW, DR. DANIEL G, b. New York, N.Y, Nov. 29, 35; m. 63; c. 2. CYBERNETICS, MATHEMATICS. B.S, Rensselaer Polytech, 57; S.M, Harvard, 58; Ph.D.(math), Mass. Inst. Tech, 64. Mem. staff, Bolt, Beranek & Newman Inc, 62-64; asst. prof. elec. eng, Mass. Inst. Tech, 64-65; V.PRES. INFO. SCI. DIV, BOLT, BERANEK & NEWMAN INC, 65- Lectr, Mass. Inst. Tech, 65-; Harvard, 67- Summer mem. staff, Gen. Elec. Co, 54-56, Boeing Airplane Co, 57 & 58, Radio Corp. Am, 59, Encyclop. Britannica Film Corp, 60 & 61, Rand Corp, 62 & Systs. Develop. Corp, 63. AAAS; Asn. Comput. Mach.(ed, Communications); Asn. Mach. Transl. & Comput. Ling; Inst. Elec. & Electronics Eng. Development of computer languages and programming systems; computational linguistics, including development of a computer program that understands natural language; artificial intelligence. Publ: Ed, Symbol manipulation languages and techniques, Proceedings of the IFIP conference on symbol manipulation languages, N.Holland, 68; auth, Syntactic analysis of English by computer—a survey, In: Proceedings AFIPS fall joint computer conference, Spartan, 63, Natural language input for computer problem solving systems, In: Semantic information processing, Mass. Inst. Tech. (in press). Address: Bolt, Beranek & Newman Inc, 50 Moulton St, Cambridge, Mass. 02138.

BOBROW, DR. DAVIS BERNARD, b. Boston, Mass, Sept. 2, 36; m. 60. POLITICAL SCIENCE. B.A, Chicago, 55 & 56, Ford Found. fel, 55-56; Rhodes scholar, Oxford, 56-58, B.A, 58; univ. fel, Mass. Inst. Tech, 58-59, Woodrow Wilson fel, 59-60, Soc. Sci. Res. Coun. fel, 60-61, Ph.D, 62. Asst. commun, Chicago, 55; co-dir. Presidential primary studies, Edward Greenfield & Co, 56; asst, center int. studies, Mass. Inst. Tech, 59; voting analyst, Int. Bus. Mach. Corp. & Simulmatics Corp, 60; lectr. polit, Princeton, 61-62, asst. prof, 62-64, res. assoc, center int. studies, 61-64; SR. SOC. SCIENTIST, OAK RIDGE NAT. LAB, 64- Consult, Inst. Defense Anal, 63-67; Off. Secy. Defense, 64; For. Policy Asn, 66- Mem. info. retrieval subcmt, Coun. Soc. Sci. Data Arch, 66- Polit. Sci. Asn. International politics; defense policy; political communication & development; social science methodology; Communist China. Publ: Co-auth, Components of defense policy, Rand McNally, 65 & Dimensions of defense opinion, Peace Res. Soc. Papers, 66; auth, Old dragons in new models, World Polit, 67. Address: Director's Division, Oak Ridge National Lab, P.O. Box X, Oak Ridge, Tenn. 37830.

BOBST, DR. BARRY WRIGHT, b. Albion, Nebr, Sept. 7, 35; m. 62; c. 1. AGRICULTURAL ECONOMICS. B.S, Nebraska, 57, M.S, 61; Ph.D.(agr. econ), Washington State, 66. ASST. PROF. AGR. ECON, KENTUCKY, 66- U.S.A.R, 57-65, Capt. Farm Econ. Asn. Agricultural marketing; price analysis. Address: Dept. of Agricultural Economics, University of Kentucky, Lexington, Ky. 40506.

BOCIURKIW, PROF. BOHDAN ROSTYSLAV, b. Buchach, Ukraine, Sept. 3, 25; nat. Can; m. 50; c. 5. POLITICAL SCIENCE. B.A, Manitoba, 52, M.A, 54; King traveling scholar, British Columbia; Can. Coun. & Can. Soc. Sci. Res. Coun. fels. & Ph.D.(polit. sci), Chicago, 61. Asst. prof. POLIT. SCI, ALBERTA, 56-61, assoc. prof, 61-67, PROF, 67- Can. Coun. res. fel, 65-66. Chmn. Inter-univ. cmt, Can. slavs, 65-67. Can. Army Reserve, 48-49. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Can. Polit. Sci. Asn; Can. Asn. Slavists (v.pres, 61-62, pres, 62-63). Soviet government and politics; Soviet political theory; church-state relations. Publ: Problem of succession in the Soviet political system: the case of Khrushchev, Can. J. Econ. & Polit. Sci, 4/60; The post-Stalin 'thaw' and Soviet political science, Can. J. Econ. & Polit. Sci, 1/64; Lenin and religion, In: Lenin, London, 67. Address: Dept. of Political Science, University of Alberta, Edmonton, Alta, Can.

BOCK, PROF. EDWIN A, b. New York, N.Y, Feb. 26, 22; m. 50; c. 3. POLITICAL SCIENCE. A.B, Dartmouth Col, 43; London Sch. Econ, 47-52. Dir. res. unit, Supreme Comdr. Allied Powers, Tokyo, 46; asst. dir, Pub. Admin. Clearing House, N.Y, 52-54; staff dir, INTER-UNIV. CASE PROGS, INC, 55-63, PRES, 63-; PROF. POLIT. SCI, MAXWELL GRAD. SCH, SYRACUSE, 63-U.S.A, 43-46. Polit. Sci. Asn; Am. Soc. Pub. Admin; Royal Inst. Pub. Admin. Public administration; comparative government; administrative leadership. Publ: Fifty years of technical assistance, Pub. Admin. Serv, 53; Government regulation of business, 65 & Politics of federal science administration, 68, Prentice-Hall. Address: Syracuse University, 607 University Ave, Syracuse, N.Y. 13210.

BOCK, DR. KENNETH E(LLIOTT), Sociol, see 10th ed, Soc. & Behav. Vols.

BOCK, DR. PETER G(IDON), b. Polička, Czech, May 1, 34; U.S. citizen. POLITICAL SCIENCE. B.A, Hebrew Univ, Israel, 54; M.A, Utah, 56; Ph.D. (polit. sci), N.Y. Univ, 66. Staff ed, polit. sci. & soc. thought, Int. Encyclop. Soc. Sci, 62-67; ASST. PROF. POLIT. SCI, BROOKLYN COL, 67- AAAS; Polit. Sci. Asn. International organization; national security. Publ: Co-auth, American national security, Macmillan, 65. Address: Dept. of Political Science, Brooklyn College, Brooklyn, N.Y. 10025.

BOCK, PROF. R(ICHARD) DARRELL, Quant. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BOCK, DR. ROBERT LEROY, b. Macksville, Kans, Sept. 5, 25; m. 60; c. 4. POLITICAL SCIENCE. A.B, Kansas, 48; M.A, 53; LL.B, Washburn, 53; Ph.D, American Univ, 60. Asst. prof. POLIT. SCI, South. State Col, 60-62; Ball State Teachers Col, 62-63; assoc. prof, Parsons Col, 63-65; prof, State Univ. N.Y. Col. Oswego, 65-67; ASSOC. PROF, OLD DOMINION COL, 67-Summers, Citizenship Clearing House fel, Indiana, 62, mem, Volker Fund Conf, Wisconsin, Milwaukee, 63, Nat. Sci. Found. fel. math. & polit. sci, Southern Methodist, 65, Case Inst. Econ-in-Action fel, 66, mem. behav. state politics workshop, surv. res. center, Michigan, 66, Found. Econ. Ed. Internship, Niagara Mohawk, N.Y, 67. U.S.A.F, 44-45, 50-51. Polit. Sci. Asn; Hist. Asn. Law; international relations; foreign policy. Publ: Contrib, J. Asian Studies & Southwest Soc. Sci. Quart; Subhas Chandra Bose, Bengali revolutionary nationalist, 1897-1945, Univ. Microfilms, 60. Address: Dept. of Political Science, Old Dominion College, Norfolk, Va. 23508.

BOCZEK, DR. BOLESLAW ADAM, b. Bielsko, Poland, Mar. 29, 22; U.S. citizen; m. 63; c. 3. POLITICAL SCIENCE. LL.M, Jagiellonian, 46, M.A, 48, Dr.Jur, 49, dipl, 50; Ph.D.(polit. sci), Harvard, 60. Lectr. law, Jagiellonian, 50-58; res. asst. law & int. legal studies, Harvard Law Sch, 60-61, res. assoc, 62-66; adv, UN Econ. Cmn. Latin Am, 61; assoc. prof. POLIT. SCI, KENT STATE, 66-68, PROF, 68- Polit. Sci. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci; Int. Studies Asn. International relations, in particular international law, organization and taxation. Publ: Flags of convenience: an international legal study, Harvard, 62; co-auth, Taxation in Italy, Harvard Law Sch. & Commerce Clearing House, 64. Address: Dept. of Political Science, Kent State University, Bowman Hall 308, Kent, Ohio 44240.

BODANSKY, HARRY, b. Berlin, Germany, Mar. 13, 19; nat; m. 43; c. 2. ECONOMICS. Vienna, 37-38; B.S.S, City Col. New York, 43; A.M, Columbia, 44. Writer & admin. asst, AUFBAU, N.Y, 40-52; econ. analyst & financial specialist, European Div, off. econ. affairs. bur. for. commerce, U.S. Dept. Commerce, 52-53; sr. economist, Nat. Indust. Conf. Bd, N.Y, 53-54; pub. acct. & tax adv. & dep. to partners, Burke, Landsberg & Gerber, D.C, 54-55; int. economist & asst. to dir. int. econ. anal. div, off. econ. affairs, bur. for. commerce, U.S. DEPT. COMMERCE, 55-61, sr. economist, off. int. regional econ, BUR. INT. COMMERCE, 61-64, sr. economist & asst. for trade legis, off. commercial & financial policy, 64-68, sr. mem. task force on U.S. for. trade position in 1975, 64-65, DIR. INT. ECON. ANAL. STAFF, 68- Dept. Commerce spec. assignments: prep. work for OEEC Dollar Liberalization Meeting, 56, work on trade agreements legis, 58 & 62, participation in rev. of voluntary balance-of-payments restraint prog, 66 & in charge prep. of State Export Origin Reports, 67. Pub. acct. & bus. consult, 46- Econ. Asn; Statist. Asn; Acad. Polit. Sci; Nat. Soc. Pub. Acct. International relations; international trade and finance; industrial and public accounting. Publ: Co-auth, Convertability and foreign trade, U.S. share of world markets for manufactured products: analysis of changes from 1954 through 1961 & U.S. foreign trade in 1975. Address: 9618 Dewmar Lane, Kensington, Md. 20795.

BODDY, PROF. FRANCIS M(URRAY), b. Owen Sound, Ont, Sept. 21, 06. ECONOMICS. B.B.A, Minnesota, 30, A.M, 36, Ph.D, 39. Asst. ECON, MINNESOTA, 30-33, instr, 34-35, lectr, 36-39, asst. prof, 40-42, assoc. prof, 42-46, PROF, 46-, ASSOC. DEAN GRAD. SCH, 61- Prin. bus. analyst, Off. Price Admin, D.C, 42-43. Consult, Nat. Resources Planning Bd, 40-41. Mem. bd. dirs, Nat. Bur. Econ. Res, 64- U.S.N, 43-46. AAAS; Econ. Asn; Statist. Asn; Acct. Asn; Royal Econ. Soc; Scottish Econ. Soc. Economic theory; industrial location; government regulation of business. Publ: Ed, Applied economic analysis; co-ed, Savings in the modern economy; co-auth, Soviet Union paradox and change, Holt, 62. Address: Graduate School, 321 Johnston Hall, University of Minnesota, Minneapolis, Minn. 55455.

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BODENHORN, PROF. DIRAN, b. Paris, France, Feb. 20, 25; m. 46; c. 3. ECONOMICS. Field fel. & M.A, Chicago, 48, Ph.D.(econ), 53. Lectr. econ, California, Los Angeles, 49-50; economist, Rand Corp, 50-53; asst. prof. bus. statist, Dartmouth Col, 53-57; bus. econ, Chicago, 57-60; assoc. prof. ECON, OHIO STATE, 60-62, PROF, 62- Vis. prof. econ. & head dept, Ibadan, 64-66, dean sch. soc. sci, 65-66. U.S.A.A.F, 43-45, 2nd Lt. Econ. Asn. Economic theory, especially comparative systems and the development of economic thought. Publ: Intermediate price theory; On the theory of capital budgeting & Cash-flow concept of profit, 3/64, J. Finance. Address: Dept. of Economics, Ohio State University, Columbus, Ohio 43210.

BODINE, DR. JOHN JAMES, b. Oklahoma City, Okla, Sept. 15, 34. ANTHROPOLOGY. B.A, Oklahoma, 56; Nat. Sci. Found. fel, Tulane, 60, M.A, 61, Ph.D.(anthrop), 67; Wisconsin, Madison & Milwaukee, 63-64. Assoc. curator ed, Milwaukee Pub. Mus, 61-63; asst. prof. anthrop, Marquette, 63-67, chmn. dept. sociol. & anthrop, 67-68; ASSOC. PROF. ANTHROP, AMERICAN UNIV, 68- Faculty res. grant, Marquette, 66. U.S.A, 58. Fel. Anthrop. Asn; Ethnol. Soc; Asn. Mus. Cultural anthropology of the Southwestern United States and Middle America; culture change and acculturation. Address: Dept. of Anthropology, American University, Washington, D.C. 20016.

BODINE, JOHN W(EEKS), Law, Govt, see Suppl. V to 11th ed, Phys. & Biol. Vols.

BODIYA, DR. NASER G(EORGE), b. Baghdad, Iraq, Mar. 29, 20; U.S. citizen; m. 51; c. 4. MARKETING, ECONOMICS. B.S, Detroit, 49, M.B.A, 50; Ph.D. (mkt), Mich. State, 61. Cost analyst, trim plant, Ford Div, Ford Motor Co, 53-54; financial analyst, Chrysler Corp, 54-55, staff economist, bus. res. dept, 55-58; ASSOC. PROF. MKT, DETROIT, 62- Int. Cmt. Sci. Mgt. vis. prof, Al-Hikma Univ. Baghdad, 61-62; Ford Found. vis. prof. case method prog, grad. sch. bus, Harvard, 64. Mkt. Asn. Business and economic research in the automotive industry; economic and population base study; cases in business and industry. Publ: Economic base study of Livingston County, Inst. Bus. Serv, Univ. Detroit, 64; Newton Charterhouse, Harvard Bus. Sch, 64; co-auth, Transportation, communication & public utilities, In: Mich. econ. record, Mich. State, 59. Address: Dept. of Marketing, University of Detroit, 4001 W. McNichols, Detroit, Mich. 48221.

BODKIN, PROF. RONALD G(EORGE), b. Philadelphia, Pa, May 29, 36; m. 61; c. 2. ECONOMICS. B.A, Swarthmore Col, 57; M.A, Pennsylvania, 59, Ph.D. (econ), 62. Instr. ECON, Pennsylvania, 57-60, lectr, 61-62; Yale, 62-63, asst. prof, 63-65; assoc. prof, WESTERN ONTARIO, 65-67, PROF, 67- Outside speaker, Conn. Coun. Econ. Ed, 63; guest lectr, series commemorating 20th anniversary of Can. White Paper on Employ, Carleton (Can), 65; summer vis. lectr, Univ. Colorado, 64. Consult, Cmn. Money & Credit, 60; Fels Inst. State & Local Govt, 61; Nat. Bur. Econ. Res, 61-64; Cowles Found. Res. Econ, 65-; Econ. Coun. Can, 65-66; U.S. Dept. Labor, 67- Econometr. Soc; Am. Econ. Asn; Can. Econ. Asn. Econometrics; mathematical economics; history of economic thought; economic growth; comparative economic systems. Publ: The wage-price-productivity nexus, Univ. Pennsylvania, 66; Windfall income and consumption, Am. Econ. Rev, 9/59; co-auth, Nonlinear estimation of aggregate production functions, Rev. Econ. & Statist, 2/67. Address: Dept. of Economics, University of Western Ontario, London, Ont, Can.

BODWIN, DR. RAYMOND F(RANKLIN), b. Detroit, Mich, Dec. 9, 22; m. 47; c. 3. CLINICAL & EDUCATIONAL PSYCHOLOGY. B.A, Mich. State, 48, M.A, 50, Ph.D, 57. Psychologist, Flint Child Guid. Clin, STATE DEPT. MENT. HEALTH, 50-56, admin. asst. psychol, 56-60, admin. dir, 60-62, DIR, FLINT MENT. HEALTH CLIN, 62-, SUPVR, MENT. HEALTH CLIN, 60- Lectr, Mich. State, 56-57. Consult, psychol. clin, Michigan, 60-; coordinator, group psychother. prog, Genesee County Community Ment. Health Serv, 67- U.S.A, 45-46. Psychol. Asn. Individual diagnosis and psychotherapy of emotionally disturbed children and adults; group psychotherapy of emotionally disturbed adults; self concept development and the brain injured individual. Publ: Use of psychodrama in a psychiatric clinic, J. Group Psychother; co-auth, Adaptation and validation of the draw-a-person test as a measure of self concept, J.Clin. Psychol. Address: 3908 Cherokee, Flint, Mich. 48507.

BOE, DR. ERLING E(DWARD), b. Fargo, N.Dak, May 28, 33; m. 60; c. 2. PSYCHOLOGY, EDUCATION. B.A, Concordia Col, 55; M.S, Washington State, 59, Ph.D.(psychol), 62. Instr. psychol, Victoria, 61-63, asst. prof, 63-66; ASSOC. PROF. ED, PENNSYLVANIA, 66- Trainee, Vet. Admin. Hosp, Seattle, Wash, 63; vis. asst. prof, Washington (Seattle), 64-65; res. assoc, Brown, 65-66; U.S. Pub. Health Serv. fel, 65-66. Consult, Vet. Admin, 64-; Appalachian Ment. Health Center, 66-; Montgomery County Sch. Syst, Pa, 67-U.S.N.R, 51-62, Lt. AAAS; Psychol. Asn; Psychonomic Soc; Ed. Res. Asn. Punishment, operant conditioning; response sets. Publ: Co-auth, Punishment: issues and experiments, Appleton, 68; Permanent effect of punishment during extinction; J. Comp. & Physiol, Psychol, 67; auth, Bibliography on punishment, In: Punishment and Aversive Behavior, Appleton, 68. Address: University of Pennsylvania, 3700 Walnut St, Philadelphia, Pa. 19104.

BOECK, DR. ALVORD L(ESLIE), b. Davenport, Iowa, Mar. 18, 03; m. 28; c. 1. ECONOMICS. B.A, Illinois, 27; M.A, Southern California, 30, Ph.D, 33; Southwestern, 34. Prof. bus. admin. & dean sch. bus, Texas Christian, 35-42; regional price adjust. officer, Off. Price Admin, 42-43, head indust, mat. sect, 43-44; commercial attache, Am. Embassy, Ecuador, 44-48; secy. & asst. gen. mgr, Paul McConnell Co, 48-51, pres. & gen. mgr, 52; MKT. RES. MGR, KWIKSET DIV, EMHART CORP, 53- Statist. Asn; Mkt. Asn. Address: 3101 Seaview Ave, Corona Del Mar, Calif. 92625.

BOEHM, DR. ALICE E(VELYN), b. Prague; nat. PSYCHOLOGY. Ph.D, Prague, 38. Res. asst, N.J. State Hosp, Trenton, 41-42; clin. intern, Southbury Training Sch, Conn, 45-46; INDEPENDENT RES, 47- Assoc, World Fedn. Ment. Health. Fel. AAAS; Psychol. Asn; fel. Int. Coun. Psychol. Perception of space; vision; touch. Publ: Stereognosis and tactile autosensations, Brit. J. Psychol; co-auth, Does Wechsler's formula distinguish intellectual deterioration from mental deficiency?, J. Abnorm. & Soc. Psychol. Address: 30 E. 81st St, New York, N.Y. 10028.

BOEHM, PROF. LEONORE, b. Berlin, Germany, Jan. 1, 11; nat. DEVELOPMENTAL PSYCHOLOGY. Dipl, Geneva, 36, Ph.D.(psychol, ed), 52; fel, Winnetka Teachers Col, 38-40, M.Ed, 40; Harvard, 42-46. Instr. psychol, Bennington Col, 40-42; psychiat. case worker & supvr, New Eng. Home Little Wanderers, 42-47; head dept. child study, Garland Jr. Col, Boston, 47-52; asst. prof. PSYCHOL, DEPT. ED, BROOKLYN COL, 52-62, ASSOC. PROF, 62- Nat. Inst. Ment. Health grants, 58-61. Psychol. Asn; Soc. Res. Child Develop. Development of conscience and children's thinking; modes of learning; investigating mental level and socioeconomic-class-differences. Publ: Les tendances nouvelles d'education prescolaire aux etats-unis et leurs aspect psychologiques; The development of conscience: a comparison of American children of different mental and socioeconomic levels, Child Develop, 62; Moral judgment: a cultural and subcultural comparison with some of Piaget's research conclusions, Int. J. Psychol, 66. Address: 35 Seacoast Terr, Brooklyn, N.Y. 11235.

BOEHM, DEAN WERNER W(ILLIAM), b. Oberlangenstadt, Germany, June 19, 13; nat; m; c. 1. SOCIAL WORK. Fel, Wurzburg, 32-33; Zurich, 33; LL.B, Dijon, 36, Ph.D, 37; scholar, Tulane, 39-41, M.S.W, 41. Caseworker, Community Serv. Soc, New York, 41-43; Family Serv, Boston, Mass, 43-44; psychiat. soc. worker, U.S. Dept. Army, 44-46; asst. prof. soc. work, Wisconsin, 46-51; assoc. prof, Minnesota, 52-58, prof, 58-63; DEAN GRAD. SCH. SOC. WORK, RUTGERS, 63- UN expert, 52; vis. prof, California, Los Angeles & Berkeley; Kansas; Toronto; Denver; Montreal; Laval; Quebec; Pittsburgh. Consult, Ministry Soc. Welfare, Israel, 52; Hebrew Univ, 59. Dir. & coordinator, soc. work curriculum study, Coun. Soc. Work Ed, 55-58, mem. curriculum cmt, 58-61, bd. dirs, 66-, deans adv. cmt, fed. soc. welfare agencies, 67-; chmn. cmt, Gov. Citizens Coun. on Aging; mem, Joint Cmn. Correctional Manpower & Training, 66-; Nat. Cmn. Soc. Work Careers, 66- Cassidy mem. res. award, Toronto, 59. AAAS; Nat. Asn. Soc. Workers. Social work theory and education. Publ: Nature of social work, Soc. Work; Objectives of the social work curriculum of the future; Social casework method in social work education, Southwest Ed. Address: Graduate School of Social Work, Rutgers, The State University, New Brunswick, N.J. 08903.

BOEHMLER, DR. ERWIN W(ILLIAM), Bus. Finance, see 10th ed, Soc. & Behav. Vols.

BOEHN, DR. ERIC H, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BOEK, DR. JEAN K(RUMWIEDE), b. New York, N.Y, July 4, 24; m. 46; c. 2. CULTURAL ANTHROPOLOGY. B.S, Cornell, 46; M.A, Mich. State, 48, fel, 49-50, Ph.D.(sociol, anthrop, nutrit), 53. Instr. res, Mich. State, 48-50; asst. to dir. res, Health Info. Found, 50-51; res. asst, State Dept. Ed, N.Y, 53-54; dir. res, State Youth Cmn, 54-55; proj. dir, driver behav. res, State Pub. Works Dept, 55-56; dir. res, State Div. for Youth, 58-61; dir. teacher parent communication study, Bank St. Col, 61-63; res. coordinator, urban teaching proj, President's Cmt. Juvenile Delinquency & Youth Crime, 63-64; VIS. PROF. anthrop, MARYLAND, 64-65, INTERPRFNL. RES. CMN. PUPIL PERSONNEL SERV, 66- Lectr, Albany Med. Col, Union (N.Y), 54-55; eve. div, Russell Sage Col, 55-57; asst. dir. study, Dept. Agr. & Immigration, Man, Can, 57; v.pres, Center Study of Aging, Inc, 58-; asst. dir. mission to Can. Arctic, Dept. North. Affairs & Nat. Resources, 59. Consult, Boy's Clubs Am, N.Y, 62-64; panel mem, Nat. Inst. Ment. Health, 63-66. Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; Ethnol. Soc; Rural Sociol. Soc. Research methodology; juvenile delinquency; education; nutrition; health. Publ: Closures in education, J. Ed. Sociol; Restudy of the diet and health of rural men; co-auth, Indians and metis of Winnipeg. Address: Wild Acres, 5400 Grosvenor Lane, Bethesda, Md. 20014.

BOEK, PRES. WALTER E(RWIN), b. Holland Patent, N.Y, May 12, 23; m. 46; c. 2. ANTHROPOLOGY. B.S, Cornell, 46; M.A, Mich. State, 48, Ph.D.(sociol, anthrop, econ), 53. Asst, Mich. State, 48-50; dir. res, Health Info. Found, 50-52; res. anthropologist & asst. to cmnr, State Dept. Health, N.Y, 52-61; asst. dir, Inst. Adv. Med. Commun, 61-62; consult, Bur. Soc. Sci. Res. & study ed. & training, U.S. Dept. Defense, 63; dir. res, Montgomery Ment. Health Center, 63-64; PRES, NAT. GRAD. UNIV, 65- Lectr, Union (N.Y), 53-54; Albany Med. Center Nursing Sch, 53-56; res. assoc, Cornell, 54-58; res. assoc. prof, Russell Sage Col, 54-58; res. anthropologist, Can. Dept. Agr. & Immigration, 57; anthropologist, North. Res. Coord. Center, Can, 59; part-time vis. prof, Maryland, 63-65. Adv, Inst. Adv. Med. Commun, 58-60; Albany Coun. Soc. Agencies, 59; consult, Fla. State Univ, 59; Albany Center Study Learning Disabilities, 59-61. Md. State rep, Int. Cong. Soc. Psychiat, London, 64; del, Int. Cong. Anthrop. & Ethnol. Sci, Moscow, 64. Chmn. bd, Center Study Aging, 57- Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; Ethnol. Soc; Soc. Int. Develop. Human organization; research methodology; community social structure; communication. Publ: Society and health; The people of Indian ancestry in greater Winnipeg; Social class, maternal health and child care. Address: National Graduate University, 5400 Grosvenor Lane, Bethesda, Md. 20014.

BOER, PROF. AREND E(DWARD), b. Grand Haven, Mich, Mar. 7, 99. MARKETING. A.B, Michigan, 23, A.M, 30; Minnesota, 28-29; Ohio State, 29-30; Ph.D, Pittsburgh, 36. Instr, Minnesota, 28-29; Ohio Wesleyan, 29-30; COMMERCE, PITTSBURGH, 30-36; asst. prof, 36-42, assoc. prof, 42-48, prof. & head dept, 48-65, EMER. PROF, 65- Mkt. Asn; Econ. Asn. Retail store mortality; mortality costs. Address: 20700 Detroit Rd, Apt. 3, Rocky River, Ohio 44116.

BOERRIGTER, DR. GLENN CHARLES, b. Hickman, Nebr, Aug. 25, 32; m. 58. EDUCATIONAL ADMINISTRATION. Ed.D.(sch. admin), Nebraska, 60; Wisconsin, summer, 65. Prin, pub. schs, Nebr, 53-57; supt, 57-58; part-time instr. sch. admin, Nebraska, Lincoln, 58-60; asst. prof. ed. admin, North. State Teachers Col, 60-61; ed. specialist, U.S. OFF. ED, 61-62, res. coordinator ed. processes, 62-66, DIR. ORGN. & ADMIN. STUDIES BR, 66- Ed. Res. Asn; Acad. Polit. & Soc. Sci; Nat. Coun. Sch. House Construct. School administration; finance; leadership; program budgeting; information management systems; systems development, planning and evaluation; improvement and development of student personnel systems; reconstruction of teacher education through awarding of grants and contracts. Publ: Co-auth, Fire safety in schools, Govt. Pub, 62. Address: Bureau of Research, U.S. Office of Education, 400 Maryland Ave. S.W, Washington, D.C. 20202.

BOERTMAN, PROF. C(HARLES) STEWART, b. Saginaw, Mich, Oct. 30, 06. ECONOMICS, HISTORY. A.B, Michigan, 28, M.A, 29, Ph.D, 34. Instr. Am. hist. & econ, Saginaw Col. Center, Mich, 34-35; Buffalo Col. Center, N.Y, 35-36; Am. hist, KANS. STATE TEACHERS COL, 36-37, asst. prof, 37-48, assoc. prof. HIST. & GOVT, 48-55, PROF, 55- Consult, Governor's Cmn. Constitutional Revision, Kans, 58-59. U.S.A.A.F, 42-46, Res, 46-66, Lt. Col. Am. Acad. Polit. & Soc. Sci; Am. Acad. Arts & Sci; Nat. Munic. League. Diplomatic history of the United States. Publ: Document on Michael Stoner; Apportionment in the Kansas house of representatives. Address: Dept. of Social Science, Kansas State Teachers College, Emporia, Kans. 66801.

BOGARDUS, PROF. EMORY S(TEPHEN), b. Belvidere, Ill, Feb. 21, 82. SOCIOLOGY. A.B, Northwestern, 08, fel, 08-09, A.M, 09; fel, Chicago, 09-11, Ph.D, 11, D.Litt, 45; L.H.D, Redlands, 47; LL.D, Boston, 50. Asst. prof. sociol, SOUTHERN CALIFORNIA, 11-13, assoc. prof, 13-15, prof, 15-49, dir. sch. soc. welfare, 23-35, acting dean grad. sch, 26-27, dean sch. soc. work, 35-39, univ. ed, 42-45, dean grad. sch, 45-49, EMER. PROF. SOCIOL, 49- Ed, J. Appl. Sociol, 21-27; J. Sociol. & Soc. Res, 27- Sociol. Asn.(pres, 31). Social thought; race relations; social psychology. Publ: The development of social thought; Social distance; The traveller. Address: University Park, Los Angeles, Calif. 90007.

BOGART, DR. LEO, b. U.S, Sept. 23, 21; m. 48; c. 1. SOCIOLOGY. B.A, Brooklyn Col, 41; M.A, Chicago, 48, Ph.D, 50. Opinion & commun. res. specialist, Standard Oil Co.(N.J), 48-51; v.pres, mkt. planning div, McCann-Erickson, Inc, 52-58; dir. mkt. res, Revlon, Inc, 58-60; v.pres. mkt. planning & res. BUR. ADVERT, AM. NEWSPAPER PUBLISHERS' ASN, 60-65, EXEC. V.PRES. & GEN. MGR, 65- Lectr, Columbia, 53- Consult, opers. res. off, U.S. Dept. Army, 51; Oil Indust. Info. Cmt, 52; res. assoc. Inst. Nat. Demog. Studies, 51-52. Pres, Radio TV Res. Coun, 56-57. Sidney Goldish award, 66; Media Scope awards, 61, 64 & 67. U.S.A, 42-46. Fel. Sociol. Asn; fel. Psychol. Asn; Am. Asn. Pub. Opinion Res.(pres, 66-67); Mkt. Asn; Mkt. Res. Coun.(pres, 65-66); World Asn. Pub. Opinion Res.(pres, 64-66). Communications; intergroup relations. Publ: Age of television, Ungar, 58; ed, Psychology in media strategy, Am. Mkt. Asn, 66; auth, Strategy in advertising, Harcourt, 67. Address: 135 Central Park West, New York, N.Y. 10023.

BOGDANOFF, DR. EARL, b. Boulder, Colo, May 5, 30; m. 53; c. 4. SOCIOLOGY. B.A, Roosevelt, 52; A.M, Chicago, 54; Ph.D.(sociol), Northwestern, 60. Soc. worker, Chicago Welfare Dept, Ill, 52-53; probtn. officer, Cook County Juvenile Court, Ill, 53-54; res. analyst, Northwest. Transportation Center, 56-57; field dir. soc. sci, Metrop. Community Studies, Inc, 57-59; human factor scientist, Syst. Develop. Corp, 59-66, ed. mgr, 66-67; ASSOC. PROF. SOCIOL, SAN FERNANDO VALLEY STATE COL, 64-, RES. COORDINATOR, 67- Consult, U.S. Pub. Health Serv, 65-66; Dickenson Pub. Co, 67- U.S.A, 54-56. Fel. Sociol. Asn; Statist. Asn; Soc. Study Social Probs. Social and computer simulation of epidemiological areas in public health; social statistical research; computer simulation research in sociology. Publ: Introduction to social statistics: a sequential approach, Dickenson, 68. Address: Dept. of Sociology, San Fernando Valley State College, Northridge, Calif. 91324.

BOGDANOVE, DR. LASCA HOSPERS, Pharmacol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BOGEN, PROF. JULES I(RWIN), Econ, Finance, see 10th ed, Soc. & Behav. Vols, deceased 63.

BOGER, DEAN JACK H(OLT), b. Kingsport, Tenn, May 8, 22; m. 44; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Virginia, 43, Ph.D.(ed. psychol), 50. Asst. dir. res, Richmond Pub. Schs, Va, 50-54, curriculum coordinator, 54-60; PROF. ED, WINTHROP COL, 60-, DEAN SCH. ED, 67- Instr, Virginia, 50-56; lectr, Col. William & Mary, 52-56. U.S.N.R, 43-46, Lt. Psychol. Asn. Child growth and development; curriculum. Address: School of Education, Winthrop College, Rock Hill, S.C. 29730.

BOGER, PROF. L(AWRENCE) L(EROY), b. Auburn, Ind, Sept. 26, 23; m. 45; c. 2. AGRICULTURAL ECONOMICS. B.A, Purdue, 47; M.A, Mich. State, 48, Ph.D.(agr. econ), 50. Instr, AGR. ECON, MICH. STATE, 48-50, asst. prof, 50-52, assoc. prof, 52-54, PROF. & HEAD DEPT, 54- Consult, crop reporting serv, U.S. Dept. Agr. Mem, Int. Conf. Agr. Econ; Farm Found. travel grant, Conf. Agr. Econ, Sydney, 67. U.S.A, 42-45. Farm Econ. Asn. (v.pres, 61); Econ. Asn; Economet. Soc. Price analysis. Publ: Seasonal price changes of major Michigan farm products; Michigan red cherry prices; Model to explain the short-term demand for apples, Econometrica. Address: Dept. of Agricultural Economics, Room 21, Agricultural Hall, Michigan State University, East Lansing, Mich. 44823.

BOGER, DR. ROBERT P, b. Buffalo, N.Y, Dec. 31, 33; m. 58; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, Cornell, 58; Nat. Inst. Ment. Health fel, Texas, 63-66, Ph.D.(sch. psychol), 66. Teacher, high schs, 60-62; asst.

prof. ed. psychol. & assoc. dir, Head Start Eval. & Res. Center, Texas, 66-67; ASSOC. PROF. CHILD DEVELOP. & DIR. HEAD START EVAL. & RES. CENTER, MICH. STATE, 67- Adj. prof, Merrill Palmer Inst, 67- U.S.A, 58-59, Res, 59-, Capt. Psychol. Asn; Ed. Res. Asn; Personnel & Guid. Asn. Child development; early education with regard to perceptual motor aspects of program, new interrelationships, and cultural disadvantagement and its effect; teacher attitudes. Address: Dept. of Home Management & Child Development, Michigan State University College of Home Economics, East Lansing, Mich. 48823.

BOGGAN, DR. HERBERT D(ARLINGTON), b. Hickory, Miss, Oct. 5, 01. SOCIOLOGY. A.B, Mississippi Col, 24; A.M, Tulane, 30; fel, Indiana, 43-44. Teacher ed. & soc. studies, Wayland Col, 34-39, soc. studies, Norman Jr. Col, 40-43; Sterling Jr. Col, 44-46; ASSOC. PROF. SOCIOL, NORTHEAST. STATE COL, 46- Sociol. Asn; Acad. Polit. & Soc. Sci. Social problems, control and psychology. Address: 522 Summit Ave, Tahlequah, Okla. 74464.

BOGGS, PROF. KENNETH B, b. Arkansas City, Kans, Dec. 8, 18; m. 44; c. 3. AGRICULTURAL ECONOMICS. B.S, Okla. State, 48; Ph.D.(agr. econ), Wisconsin, 61. Instr. AGR. ECON, Okla. State, 48-51, asst. prof, 54-62, assoc. prof, 62-65; res. asst, Wisconsin, 51-54; ASSOC. PROF, MISSOURI, 65-67, PROF, 67- Inst. correspondence teaching, Armed Forces Inst, Wis, 52-54; guest lectr, Int. Coop. Training Center, Wis, 67; summer fel, Case Inst. Tech, 67. U.S.A, 42-45, S/Sgt. Am. Agr. Econ. Asn; Can. Agr. Econ. Soc. Farm management; dairy marketing. Publ: Goals and content of agricultural economics curricula, West. Farm Econ. J, 64. Address: Dept. of Agricultural Economics, University of Missouri, Columbia, Mo. 65201.

BOGGS, DR. SARAH LEE, b. St. Louis, Mo, Dec. 24, 29. SOCIOLOGY. A.B, Washington (St. Louis), 51, A.M, 53, Ph.D.(sociol), 64. Asst. community planning, Soc. Planning Coun, Mo, 53-56; res. assoc. local govt, Metrop. St. Louis Surv, 56-57; asst. demog. & urban sociol, soc. sci. inst, Washington (St. Louis), 57-58; res. assoc. community planning, Health & Welfare Coun, Mo, 58-60; assoc. dir. demog. & urban sociol, metrop. pop. proj. Washington (St. Louis), 60-66; asst. prof. sociol. & surv. res. lab, Illinois, 66-67; ASST. PROF, DEPT. SOCIOL. & PUB. OPINION SURV. UNIT, MISSOURI, 67- Sociol. Asn; Pop. Asn; Soc. Study Soc. Probs. Urban sociology. Publ: Comparison of a Negro community and two neighboring white communities; Urban crime patterns, Am. Sociol. Rev, 12/65; Measures of treatment outcome for alcoholics: In: Alcoholism, Harper, 67. Address: Dept. of Sociology, University of Missouri, Columbia, Mo. 65201.

BOGGS, PROF. STANLEY H(ARDING), b. Warsaw, Ind, Aug. 8, 14; m. 42; c. 1. ANTHROPOLOGY. B.A, Northwestern, 35; M.A, Arizona, 36; Harvard, 37-39. Field asst. archaeol, Peabody Mus, Phillips Acad, (Mass), 37-38; Copan Proj, div. hist. res, Carnegie Inst, Wash, 39; archaeologist, Dimick-Salvador Exped, Tulane Carnegie Inst, 40-41; El Salvador Proj, Inst. Andean Res, 42; dir. archaeol. excavations, Nat. Mus, El Salvador, 43-46; archaeologist, Zaculeu Proj, United Fruit Co, Guatemala, 46-47; chief dept. archaeol, El Salvador, 47-54; Am. Philos. Soc. res. grantee, Peabody Mus, Harvard, 61-63; prof. anthrop, EL SALVADOR, 63-65, prof. archaeol. & head dept, 65-67, PROF. ARCHAEOL, 68-, dir. sch. soc. sci, 64. Trustee, Salvadorean Inst. Anthrop. & Hist, 65-66. Fel. AAAS; fel. Anthrop. Asn; fel. Soc. Am. Archaeol. Antillean archaeology; archaeology and ethnography of Central America, especially the Mesoamerican cultural areas. Publ: Excavaciones en la hacienda San Andres; Excavation in Central and Western El Salvador. Address: Apartado 1600, San Salvador, El Salvador.

BOGGS, DR. STEPHEN TAYLOR, b. Chicago, Ill, July 13, 24; m. 48; c. 3. ANTHROPOLOGY, SOCIOLOGY. A.B, Harvard, 47, Shaw traveling fel, 47-48; Soc. Sci. Res. Coun. fel, Washington (St. Louis), 51-52, Ph.D.(sociol, anthrop), 54. Acting asst. prof. sociol, Stanford, 53-56; soc. anthropologist, Nat. Inst. Ment. Health, 57-60; exec. secy, Am. Anthrop. Asn, 61-66; ASSOC. PROF. ANTHROP, HAWAII, 66- Panel mem, Nat. Acad. Sci-Nat. Res. Coun, 61- U.S.A, 43-46. Fel. Anthrop. Asn. Culture and personality; acculturation; anthropology and education; applied anthropology. Publ: Culture change and the personality of Ojibwa children, Am. Anthropologist; Family size and social mobility in a California suburb, Eugenics Quart; The values of laboratory workers, Human Orgn, fall 63. Address: Dept. of Anthropology, University of Hawaii, Honolulu, Hawaii 96822.

BOGNAR, DR. KALMAN, Phys. Geog, Meteorol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BOGOCH, PROF. SAMUEL, Biochem, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BOGUE, PROF. DONALD J, b. Utah, Feb. 2, 18; m. 44; c. 2. SOCIOLOGY. B.A, Iowa, 39; M.A, State Col. Wash, 40; Soc. Sci. Res. Coun. fel, Michigan, 47-48, Ph.D, 49. ASSOC. DIR. SCRIPPS FOUND, MIAMI (OHIO), 47-; PROF. SOCIOL. & DIR. COMMUNITY & FAMILY STUDY CENTER, CHICAGO, 53- Consult, U.S. Bur. Census, 49-50; U.S. Bur. Budget, 58-; expert, Tech. Asst. Admin, UN, 59-60. U.S.N, 42-45. Sociol. Asn; Statist. Asn; Pop. Asn; Geog. Soc; Int. Union Sci. Study of Pop. Population; urban sociology; social research. Publ: Structure of the metropolitan community; Economic areas of the United States; Principles of demography. Address: Dept. of Sociology, University of Chicago, Chicago, Ill. 60637.

BOGUE, DR. GRANT, b. Kansas City, Mo, Aug. 28, 28; m. 53; c. 3. SOCIOLOGY. B.A, Mich. State, 50, M.A, 54; Ph.D.(sociol), Wayne State, 63. Sociologist, Cmn. Children & Youth, Mich, 54-59; instr. sociol. & anthrop, Allegheny Col, 59-63; asst. prof, Arkansas, 63-66; Texas A&M, 66-67; ASSOC. PROF. SOCIOL. & CHMN. DEPT, WESTERN ILLINOIS, 67- U.S.A.F, 51-53, Res, 53-, Capt. Sociol. Asn; Pop. Asn. Urban social organization; population; methods. Publ: Co-auth, Population information for mental health planning in Arkansas, Ark. Bd. Health, 64; Civil rights stress and structural reorganization, 65 & Quiet integration, 67, Proc. Southwest. Sociol. Asn. Address: Dept. of Sociology, Western Illinois University, Macomb, Ill. 61455.

BOGUSLAVSKY, PROF. GEORGE W(ILLIAM), b. Russia, Oct. 17, 11; nat; m. 43. PSYCHOLOGY. B.A, Washington (Seattle), 39, M.S, 41; Ph.D.(psychol), Cornell, 53. Asst, psychomet. lab, Chicago, 41-42; instr. PSYCHOL, Connecticut, 47-51; asst. prof, Cornell, 53-57; PROF, RENSSELAER POLYTECH, 57-, CHMN. DEPT, 68-, exec. officer, 66-68. Dir. Troy Center, Am. Inst. Res. U.S.A, 42-46, Capt. AAAS; Psychol. Asn. Learning theory. Publ: Interruption and learning; Mathematical model for conditioning. Address: Dept. of Psychology, Rensselaer Polytechnic Institute, Troy, N.Y. 12181.

BOHANNAN, DR. LAURA, b. New York, N.Y, July 20, 22; m. 43; c. 1. ANTHROPOLOGY. B.A, Arizona, 43, M.A, 47; Ph.D, Oxford, 51. Instr. German, Arizona, 46-47; sr. res. fel. ANTHROP, E.African Inst. Soc. Res, Uganda, 54-56; res. assoc, Northwestern, 60-65; ASSOC. PROF, ILLINOIS, CHICAGO, 65- Lectr, Chicago, 62-63, 64-65; res. assoc, Nat. Inst. Ment. Health & Nat. Sci. Found, 63-64. AAAS; African Studies Asn; fel. Am. Anthrop. Asn; fel. Int. African Inst; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Brit. Asn. Social Anthrop. Family and household structure, especially in Africa. Publ: Return to laughter, Gollanz, London, 54, French & Swedish transl, Harper, 55 & Natural Hist. Press, 64; co-auth, Tiv economy, Northwestern Univ, 67; auth, The frightened witch, In: The company of man, Harper, 60 & German transl, In: Kulturanthropologie, Kiepenheuer & Witsch, Berlin, 66. Address: 405 Deerfield Rd, Deerfield, Ill. 60015.

BOHANNAN, PROF. PAUL J(AMES), b. Lincoln, Nebr, Mar. 5, 20; m. 43. ANTHROPOLOGY. B.A, Arizona, 47; B.Sc, Oxford, 49, D.Phil, 51. Univ. lectr. soc. anthrop, Oxford, 51-56; assoc. prof, Princeton, 56-59; PROF. ANTHROP, NORTHWESTERN, 59-, chmn. center soc. sci. res, 61-64. Fels, Soc. Sci. Res. Coun, Wenner-Gren Found, Colonial Soc. Sci. Res. Coun, Govt. Nigeria & E.Africa Inst. Soc. Res, Africa; fel, Center Adv. Study Behav. Sci, 63-64; Nat. Sci. Found. sr. fel, 67-68. Dir, Human Environ. Cent. Africa Proj, Nat. Acad. Sci, 58-60. U.S.A, 42-46, Capt. AAAS; Am. Anthrop. Asn; African Studies Asn.(pres, 64); Ethnol. Soc; Royal Anthrop. Inst. Gt. Brit; Int. African Inst. Primitive jural institutions; witchcraft; African studies; marriage and divorce; psychological anthropology. Publ: African homicide and suicide; Social anthropology, Holt, 63; Africa and Africans, Natural Hist. Press, 64. Address: 405 Deerfield Rd, Deerfield, Ill. 60015.

BOHLEBER, DR. MICHAEL E, b. Benton Harbor, Mich, Jan. 25, 33; m. 55; c. 2. SOCIOLOGY. B.A, Georgia, 56, M.A, 59; Nat. Inst. Ment. Health fel, Wisconsin, 61-62, Ph.D.(sociol), 66. Counsr. to men, Georgia, 57-59; instr. sociol, Birmingham Exten. Center, Univ. Alabama, 59-60; proj. asst. ed, col. ed, Wisconsin, 62-64; instr. sociol, Okla. State, 64-66, asst. prof, 66-67; RES. ASSOC. ED, DIV. ELEM. & SEC. ED. RES, U.S. OFF. ED, 67-U.S.A.F, 51. Sociol. Asn. Social psychology; educational and urban sociology; organizational analysis. Publ: Disabilities in Oklahoma: estimates and projections, Okla. State Univ, 67. Address: Bureau of Research, Room 3118, U.S. Office of Education, 400 Maryland Ave. S.W, Washington, D.C. 20202.

BOHLEN, PROF. JOE MERL, b. Dubuque, Iowa, June 1, 19; m. 41; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.S, Iowa State, 47, M.S, 48, Ph.D.(sociol), 54; Minnesota, 52. Asst. supt. eng, Fraser-Brace Eng. Co, 41-43; instr. SOCIOL, IOWA STATE, 47-51, asst. prof, 51-55, assoc. prof, 55-58, PROF, 58- Consult, Dow Chem. Co, 58-64; Meredith Pub. Co, 60-66; Chas. Pfizer & Co, 63-67; res. consult, Agr. Inst, Ministry Agr, Repub. Ireland, Dublin, 65- U.S.N, 43-46. Rural Sociol. Soc; European Soc. Rural Sociol. Adoption and diffusion of new technology; social psychological aspects of communication; social power and the sociology of complex social systems. Publ: Co-auth, Leadership and the dynamics of group action, 62 & auth, The adoption and diffusion of ideas, In: Our changing rural society, 64, Iowa State Univ; Needed research on adoption models, Sociologia Ruralis, 1967. Address: Dept. of Sociology, Iowa State University, Ames, Iowa 50010.

BOHLMAN, DR. HERBERT W(ILLIAM), Econ, see 10th ed, Soc. & Behav. Vols.

BOHN, DR. MARTIN J(OHN) JR, b. Portland, Maine, Oct. 29, 38; m. 64. PSYCHOLOGY. B.A, Maryland, 60; M.A, Iowa, 63, Ph.D.(psychol), 64. Asst. prof. psychol. & sr. counsr. univ. counseling serv, Iowa, 64-65; asst. prof. ed. & psychol. & counseling psychologist, student counseling serv, Washington (St. Louis), 65-67; ASST. PROF. ED. & PSYCHOL, TEACHERS COL, COLUMBIA, 67- Summers, vis. inst. prof, Alaska, 66, vis. asst. prof, Iowa State, 67. Consult, Vet. Admin. Hosps, 67- Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. Counseling theory and practice; counselor training; vocational development theory. Publ: Counselor behavior as a function of counselor dominance, counselor experience and client type, 65 & Psychological needs related to vocational personality types, 66, J. Counseling Psychol. Address: Dept. of Psychology, Teachers College, Columbia University, New York, N.Y. 10027.

BOHR, KENNETH ALDEN, Econ, see 10th ed, Soc. & Behav. Vols.

BOHRNSTEDT, DR. GEORGE W, b. Arcadia, Wis, Sept. 28, 38; m. 62; c. 2. SOCIOLOGY. B.S, Wisconsin, 60, M.S, 63, Nat. Inst. Ment. Health fel, 65, Ph.D.(sociol), 66. PROJ. ASSOC. SOCIOL, WISCONSIN, 66- Nat. Guard, 56-61; U.S.A, 62. Sociol. Asn; Psychomet. Soc; Nat. Coun. Measurement in Ed. Social psychology; statistics and methodology; sociology of education, work and values. Publ: A methodological note comparing the questionnaire and the interview, J. Psychol. Studies, 67; co-auth, Smoking and MMPI scores among entering freshmen, J. Soc. Psychol, 67; auth, Some observations on the measurement of change, Sociol. Methodology, 65. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

BOICE, DR. ROBERT, b. Grand Rapids, Mich, Dec. 12, 40; m. 65. COMPARATIVE PSYCHOLOGY. B.A, Mich. State, 62, M.A. & Ph.D.(psychol), 64. Res. assoc. PSYCHOL, New Mexico, 66-67; ASST. PROF, OHIO, 67- Soc. Mammal; Animal Behav. Soc; Soc. Zool. Behavior of small mammals, especially rodents, in relation to domestication and stress; aggression, dominance and anticipatory responding in aves, amphibia and rodents; behavior genetics. Publ: Lick rates and topographies as taxonomic criteria in southwestern rodents, Psychonomic Sci, 67; Conditioned licking in wild F_1 and domestic Norway rats, J. Comp. & Physiol. Psychol, (in press); co-auth, Contextual variability and transfer of a discrimination, J. Exp. Psy-

chol, 76: 673-674. Address: Dept. of Psychology, College of Arts & Sciences, Ohio University, Athens, Ohio 45701.

BOIS, DR. J(OSEPH) SAMUEL, b. Stratford Centre, Que, Apr. 21, 92; m. 28; c. 2. PSYCHOLOGY. B.A, Laval, 10; M.A, McGill, 34, Ph.D, 36. Pres, Psychol. Inst. Montreal, 36-41; staff psychologist, Stevenson & Kellogg, 45-47; private practice, 47-49; sr. partner, Bois & Howard, 49-53; Bois & Mahoney, 53-63; DIR, Bois, McCay & Assocs, Ltd, 53-64; RES. & ED, VIEWPOINTS INST, INC, 63- Exten. lectr, California; fel, Inst. Gen. Semantics, 53- Consult, Dom-Provincial Youth Training Plan, 37-40. Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. Can. Army, 41-45, Lt. Col. Fel. AAAS; fel. Psychol. Asn; Can. Psychol. Asn.(pres, 48-49). General semantics; epistemology. Publ: Explorations in awareness, Harper, 57; The art of awareness, W.C. Brown, 66. Address: 1163½ S. Roxbury Dr, Los Angeles, Calif. 90035.

BOISSEVAIN, DR. ETHEL (MRS. ARTHUR LESSER, JR), b. Rockville Center, N.Y, Feb. 5, 13; m. 38; c. 4. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Vassar Col, 34; Ph.D, Prague, 36. Instr. ANTHROP, Hunter Col, 37-45, lectr, grad. sch. & sch. gen. studies, 59-67; ASST. PROF. Drew, 67-68; LEHMAN COL, CITY UNIV. NEW YORK, 68- Fel. Anthrop. Asn; Asn. Phys. Anthrop; Soc. Archaeol; Soc. Human Genetics; Am. Schs. Oriental Res; N.Y. Acad. Sci; Brit. Prehist. Soc. Ethnohistory of American Indians of the New England area; neolithic plastic art of Europe and its relationship with Near Eastern civilization. Publ: Narragansett survival: a study of group persistence through adopted traits, Ethnohistory; On peasant acculturation, Am. Anthropologist; Detribalization and group identity, Transactions N.Y. Acad. Sci, 63. Address: Dept. of Anthropology, Lehman College, City University of New York, Bronx, N.Y. 10468.

BOISSONNAULT, CHARLES MARIE, b. St. Blaise, Que, Dec. 12, 02; m. 31; c. 3. PUBLIC RELATIONS. Montreal, 25-26; Laval, 43-44, 48-50. News ed, L'Evenement J, 36-39; publicist, Dept. Health, Que, 40-59, tech. adv, 59-60, chief Info. Bur, 60-66, LIBRN, MINISTRY HEALTH, 66- Dir. public res, med. sch, Laval, 50- Royal Soc. Can; Can. Hist. Med. History of biochemistry; evolution of the medical sciences by chemists and biochemists; human populations; demography. Publ: Histoire de la faculte de médecine de Laval; Premières explorations de l'être humain; Histoire politico-militaire des Canadiens-Français. Address: 985 Calixa Lavallée, Quebec, Que, Can.

BOITANO, DR. JOHN J(OSEPH), b. Union City, N.J, Nov. 28, 32; m. 60; c. 2. NEUROPSYCHOLOGY. B.A, Manhattan Col, 54; M.A, Fordham, 57, Ph.D. (psychol), 64. Res. assoc. psychopharmacol, Inst. Living, Hartford, Conn, 59-61; ASST. PROF. PSYCHOL, St. Bonaventure, 61-65; Rosary Hill Col, 65-67; FAIRFIELD, 67- Nat. Sci. Found. res. participant prog, Michigan, summer, 64. Psychol. Asn. Function of the hippocampus in relationship to behavioral indices; brain-behavior research. Address: Dept. of Psychology, Fairfield University, Fairfield, Conn. 06430.

BOLAND, DR. RUTH FRANCES, b. Boston, Mass, June 17, 04. PSYCHOLOGY. B.S, Boston, 31; M.A, Columbia, 40; Ed.D, Harvard, 46. Asst. to supvr, pub. schs, Mass, 36-46; DIR. BUR. PUPIL SERV, CAMBRIDGE SCH. DEPT, 46- Assoc. in ed, Harvard, 66-68. Summer lectr, Lehigh, 45, 46, 48 & Maine, 58. Trustee & chmn. cmt. ed, Lesley Col, 44-, mem. corp, 51- Mem, White House Conf. Children & Youth, 50, 60. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; fel. Asn. Ment. Deficiency; Personnel & Guid. Asn; fel. Int. Coun. Psychol. Retarded, gifted, and emotionally disturbed in school setting. Address: 1700 Cambridge St, Cambridge, Mass. 02138.

BOLAND, DR. VINCENT F(RANCIS), Econ, see 10th ed, Soc. & Behav. Vols.

BOLAND, DR. WALTER REED, b. Detroit, Mich, Aug. 28, 30; m. 59; c. 1. SOCIOLOGY. A.B, Michigan, 57, M.A, 59, Ph.D.(sociol), 66. Instr. SOCIOL, Oakland, 63-64; Bowdoin Col, 64-65, ASST. PROF, 65-67; CONNECTICUT, 67- U.S.A, 52-54. Sociol. Asn. Organization of educational institutions, especially influence of society and community on organization of educational institutions and the consequences of this organization for individual achievement and operation. Publ: Co-auth, Population size and administration in institutions of higher education, Am. Sociol. Rev, 4/65. Address: Dept. of Sociology, University of Connecticut, Storrs, Conn. 06268.

BOLANOVICH, DR. DANIEL J(ACKSON), b. St. Louis, Mo, Mar. 25, 19. PSYCHOLOGY. B.S, Southeast. Mo. State Col, 41; M.A, Missouri, 42; Ph.D. (psychol), Denver, 53. Mgr. personnel res. sect, Radio Corp. Am, 43-51; chief aptitude res. unit, U.S. Dept. Army, 51-55; training specialist, Perceptual Develop. Labs, Inc, 55-62, v.pres. & dir, 62-63; dir. res, Center Appl. Res, 63-64; DIR. RES, JEWISH VOC. SERV, 64- Mem. gen. res. study sect, U.S. Voc. Rehab. Admin, Dept. Health, Ed. & Welfare, 65- Psychol. Asn; Soc. Training & Develop. Personnel management; experimental psychology; industrial training for the mentally handicapped. Publ: Interest tests reduce factory turnover, Personnel Psychol; Statistical problems in worker evaluation, Personnel; Selection of female engineering trainees, J. Ed. Psychol. Address: 6776 Eichelberger, St. Louis, Mo. 63109.

BOLCH, DR. BEN W(ILSMAN), b. Danville, Ill, Aug. 22, 38; m. 61; c. 1. ECONOMICS. B.B.A, Emory, 60, M.A, 62; Ph.D.(econ), North Carolina, 66. ASST. PROF. ECON, VANDERBILT, 66- U.S.A.R, 60-61. Econ. Asn; Statist. Asn; Economet. Soc. Address: Dept. of Economics, Vanderbilt University, Nashville, Tenn. 37203.

BOLDEN, DR. WILEY S(PEIGHTS), b. Birmingham, Ala, Dec. 18, 18; m. 45; c. 4. PSYCHOLOGY. B.S, Ala. State Col, 39; M.A, Columbia, 47, Gen. Ed. Bd. fel, 53-54, Ed.D.(clin. psychol), 57. Prin, Almont Jr. High Sch, Ala, 39-42; teacher, pub. sch, 42-44; assoc. prof. psychol, Clark Col, 48-57, prof. & chmn. dept. ed. & psychol, 57-63, Dean faculty & instr, 63-67; ASSOC. DIR. RES, SOUTHEAST. ED. LAB, 67- Consult, Ford Found. summer progs; 64-65; Human Rels. Training Inst, Spring Hill Col, 65-67; Ga. State Dept. Ed, 65-66; U.S. Off. Ed, 66-67; Off. Econ. Opportunity, 66- Coordinator, Atlanta-New Orleans coop. exp. proj, Phelps-Stokes Fund, 59-62; summers, staff mem, South. Ed. Found. Regional Prins. Workshop, Tuskegee Inst, 57, dir, South. Ed. Found. Regional Prins. Supvrs. Workshop, 58, 59; staff mem, nat. defense ed. act counseling & guid. inst, N.C. Col. Durham, 60, 61. U.S.A, 44-46. Psychol. Asn; Rehab. Asn. Psychological testing; school learning and adjustment. Publ: When is a school ready for a testing program?, Elem. Sch. J, 1/59; Improving selection practices in preservice teacher education, Herald, 4/63; Tasks for the teacher in improving academic achievement of Negro pupils in the south, J. Negro Ed, spring 63. Address: 195 Hermer Circle, N.W, Atlanta, Ga. 30311.

BOLDT, DR. ROBERT FREDRICK, b. Muscatine, Iowa, Nov. 8, 29; m. 60; c. 2. PSYCHOLOGY. B.S, Iowa State, 51, M.S, 53; fel, Ed. Testing Serv, 54-56, M.A. & Ph.D.(soc. perception), Princeton, 62. Asst. exp. psychol, Iowa State, 51-53; Princeton, 53-54; chief statist. anal, unit, U.S. Army Personnel Res. Off, 56-60, task leader, 60-65; assoc. dir. statist. anal. div, ED. TESTING SERV, 65-66, asst. to res. v.pres, 66-67, DIR. TEST PROGS. RES. & STATIST, 67- Psychol. Asn; Statist. Asn. Psychometrics; learning theory. Publ: Motor learning in college students and mental defectives & Construction of some judgement spaces, Bull. Ed. Testing Serv; co-auth, Voluntary post pause behavior in a block turning task as a function of wrist cuff weight, J. Exp. Psychol. Address: Educational Testing Service, Rosedale Rd, Princeton, N.J. 08540.

BOLDUC, DR. THOMAS EDWARD, b. Portland, Maine, Aug. 28, 28; m. 50; c. 3. PSYCHOLOGY. B.A, Redlands, 52; M.A, Boston, 54; Ph.D, Pa. State, 59. Clin. asst. psychol, Pa. State, 54-55, 56-57; clin. intern, Conn. State, 55-56; psychologist, Laurelton State Village, Pa, 57-58, res. assoc. & Nat. Inst. Ment. Health grant, 58-59; psychologist, psychiat. serv, div. corrections, State Sch. Boys, 59-64; PROF. PSYCHOL, WIS. STATE, WHITEWATER, 64-, DIR. STUDENT COUNSELING CENTER, 65- U.S.N, 46-48. Psychol. Asn. Crime and delinquency. Publ: Social-value-need patterns in mental retardates, J. Consult. Psychol. Address: Student Counseling Center, Wisconsin State University, Whitewater, Wis. 53190.

BOLES, PROF. DONALD E, b. Wausau, Wis, July 8, 26; m. 46. POLITICAL SCIENCE. B.S, Wisconsin, 50, M.S, 53, Ph.D.(polit. sci), 56. Asst. prof. GOVT, IOWA STATE, 55-59, assoc. prof, 59-62, PROF, 62- Mem, Iowa Civil Rights Cmn, 57-, chmn, 57-60, 62-64. U.S.N, 44-46. Polit. Sci. Asn. Administrative law; state government; civil liberties law. Publ: The Bible, religion and the public schools; co-auth, County highway and welfare functions: a quantative analysis, Iowa Col. Community Res. Center, 62; auth, The two swords, Iowa State Univ, 67. Address: 620 Ash Ave, Ames, Iowa 50010.

BOLES, PROF. JAMES N(EWTON), b. Calif, Nov. 29, 20; m. 50; c. 2. AGRICULTURAL ECONOMICS. B.A, San Diego State Col, 48; M.S, California, 51, Ph.D.(agr. econ), 55. Asst. econ, CALIFORNIA, BERKELEY, 50-51, AGR. ECON, 51-52, asst. specialist, 52-54, instr, 54-55, asst. prof, 55-61, assoc. prof, 61-66, PROF, 66- U.S.A, 42-46. Statist. Asn; Economet. Soc; Agr. Econ. Asn. Quantitative economics; statistics. Publ: Linear programming and farm management analysis, J. Farm Econ. Address: Dept. of Agricultural Economics, University of California, Berkeley, Calif. 94720.

BOLES, PROF. JOHN JOSEPH, Econ, see 10th ed, Soc. & Behav. Vols.

BOLES, PROF. WALTER E(LLIOTT), JR, b. West Plains, Mo, July 31, 12; m. 37; c. 1. ECONOMICS, INDUSTRIAL RELATIONS. B.A, Southwestern, 32; M.A, Vanderbilt, 33, Ph.D.(econ), 39; LL.B, Southern Methodist, 49. Head dept. econ, Westminster Col.(Mo), 39-42; price economist, Off. Price Admin, 42-44; PROF. ECON. & INDUST. RELS, SOUTHERN METHODIST, 46-; PRFNL. ARBITRATOR, 51- Regional v.chmn, Wage Stabilization Bd, 51-53, asst. enforcement attorney, 53. Consult, Sam Bloom Advert. Agency, 54- U.S.N.R, 44-46, Lt. Labor economics; union-management relationships, especially on contract administration and arbitration. Publ: Some aspects of the Fair Labor Standards Act, South. Econ. J; Survey of constitutional law for year 1948 & Legal and economic significance of labor arbitration awards, Southwest. Law J. Address: Dept. of Industrial Relations & Economics, School of Business Administration, Southern Methodist University, Dallas, Tex. 75222.

BOLEY, ROBERT EUGENE, b. Washington, D.C, Nov. 25, 25; m. 50; c. 1. GEOGRAPHY. A.B, George Washington, 53, M.A, 58. Geogr, U.S. Govt, 53-54; res. assoc. U.S. Army Res. Proj, George Washington, 54-56; dir. indust. develop. cmt, Prince Georges County, Md, 56-57; dir. indust. prog, URBAN LAND INST, 57-63, dir. indust. & cent. city progs, 63-66, coun. coord. dir, 66-68, ASST. EXEC. DIR, 68- Mem, Am. Indust. Develop. Coun. & Nat. Indust. Zoning Cmt, 57- Asn. Am. Geog; Regional Sci. Asn. Economic and urban geography; location of industry; industrial development and redevelopment; planned industrial districts; industrial zoning; central city and downtown development. Publ: Manufacturing structure of Prince George's County, Maryland; Industrial districts restudied, Urban Land Inst. Tech. Bull, 41; Industrial districts: principles in practice, Urban Land Inst. Tech. Bull, 44. Address: Urban Land Institute, 1200 18th St. N.W, Washington, D.C. 20036.

BOLGAR, DR. HEDDA (MRS. HERBERT G. BEKKER), b. Zurich, Switz, Aug. 19, 09; nat; m. 40. PSYCHOLOGY. Ph.D.(psychol), Vienna, 34. Chief clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Chicago, Ill, 46-50; lectr. psychol. & coordinator clin. training, Chicago, 48-55, res. assoc. prof, cmt. human develop, 55-61; CHIEF PSYCHOLOGIST & DIR. CLIN. PSYCHOL. TRAINING PROG, MT. SINAI DIV, CEDARS-SINAI MED. CENTER, 61-Lectr, Northwestern, 55-56; assoc. clin. prof, Southern California, 61- Consult, Vet. Admin, 54-56. Psychol. Asn; fel. Orthopsychiat. Asn. Publ: A reevaluation of projective theory, In: Advances in Rorschach technique, Vol. II, World Book Co, 56; Contributions toward a general theory of mental development: Piaget and Hartman, Science and Psychoanalysis, Vol. VII, 64; The case study method, In: Handbook of clinical psychology, McGraw, 64. Address: 8720 Beverly Blvd, Los Angeles, Calif. 90048.

BOLINO, DR. AUGUST C, b. Boston, Mass, Sept. 30, 22; m. 51; c. 4. ECONOMIC HISTORY, MANPOWER ECONOMICS. B.B.A, Michigan, 48, fel. & M.B.A, 49; Washington (Seattle), 50-52; Ph.D, St. Louis, 57. Instr. statist, Washington (Seattle), 50-51; bus. & econ, Idaho State, 52-55; asst. prof. econ,

St. Louis, 55-60, assoc. prof, 60-62; chief div. econ. anal. of automation, off. manpower automation & training, U.S. Dept. Labor, 62-64; dir. eval. manpower develop. & utilization of progs. br, U.S. Off. Ed, 64-66; ASSOC. PROF. ECON, CATHOLIC UNIV, 66- Res. asst, Bell Found, 57; Am. Philos. Soc. res. fel, 60; res. assoc, Upjohn Inst. Employ. Res, 62; lectr, Maryland, 63; adj. prof, American Univ, 64-66; Nat. Sci. Found. res. grant-in-aid, 67. Consult, U.S. Off. Ed, 66-67; U.S. Off. Econ. Opportunity, 67. Mem. joint task force cost deduction manpower training progs, U.S. Depts. Labor & Health, Ed. & Welfare, 65-66, joint task force basic ed, 65-66; subcmt. labor-mkt. assessment, President's Cmt. Manpower, 64-65, 3-man coord. team, Mich, summer, 66. U.S.A.A.F, 42-45, 1st Lt. Econ. Asn; Econ. Hist. Asn. Publ: The development of the American economy, C.E. Merrill, 2nd ed, 66; Economic and social aspects of automation, Proc. SHARE design automation Workshop, 6/64; The duration of unemployment: some tentative historical comparisons, Quart. Rev. Econ. & Bus, 6/66. Address: Dept. of Economics, Catholic University of America, Washington, D.C. 20017.

BOLL, DR. ELEANOR S(TOKER), Sociol, see 10th ed, Soc. & Behav. Vols.

BOLLAND, DR. THOMAS WILLIAM, b. Cincinnati, Ohio, Sept. 5, 30; m. 60; c. 2. APPLIED STATISTICS, OPERATIONS RESEARCH. B.B.A, Cincinnati, 53; M.B.A, Chicago, 57, Ford Found. fels, 60-63, Ph.D.(opers. res), 66. Staff mem. pub. acct, Haskins & Sells, Ohio, 51-53; statist. res. analyst, Mkt. Facts, Inc, Ill, 57-59; opers. res. analyst, Montgomery Ward & Co, Ill, 62; instr. mgt. sci, sch. bus. admin, State Univ. N.Y. Buffalo, 63-66, asst. prof, 66-67; vis. asst. prof. BUS. ADMIN, Amos Tuck Sch. Bus. Admin, Dartmouth Col, 67-68; ASST. PROF, WHITTEMORE SCH. BUS. & ECON, NEW HAMPSHIRE, 68- Mem, Ford Found. summer faculty workshop in math. models & comput. in bus, 64; State Univ. N.Y. Res. Found. grant-in-aid res. heuristic prog. & sequential search methods, 67. Indust. consult, 58-59 & 66-67. U.S.A.F, 53-55, Res, 55-62, 1st Lt. Opers. Res. Soc; Inst. Mgt. Sci; Statist. Asn; Mkt. Asn. Teaching decision theory using an integrated approach; comparisons among discrete optimizing, heuristic programming and Bayesian sequential search methodologies; quantitative model formulations useful in marketing problems, particularly in distribution problems. Publ: Numerical implications of Bayesian interpretations of classical hypothesis testing procedures, Proc. Bus. & Econ. Statist. Sect, Am. Statist. Asn, 66; A heuristic programming approach to a truck routing problem, Sch. Bus. Admin, State Univ. N.Y. Buffalo, 67. Address: Whittemore School of Business & Economics, University of New Hampshire, Durham, N.H. 03824.

BOLLENS, PROF. JOHN C(ONSTANTINUS), b. Pittsburgh, Pa, Dec. 27, 20; m. 45; c. 2. POLITICAL SCIENCE. A.B, Col. Wooster, 42; A.M, Duke, 48; Ph.D, Wisconsin, 48. Res. dir, Munic. League, Seattle, Wash, 45-47; admin. analyst, bur. pub. admin, California, Berkeley, 47-50, lectr. POLIT. SCI, 49-50; asst. prof, CALIFORNIA, LOS ANGELES, 50-55, assoc. prof, 55-60, PROF, 60- Res. dir. metrop. area proj, Coun. State Govts, 55-56; exec. dir, Metrop. St. Louis Surv, Mo, 56-57; Metrop. Community Studies, Dayton, Ohio, 57-59; dir, Los Angeles City Charter Study, 62-63; chmn. res. cmt, Youth Opportunities Bd. Greater Los Angeles, 63-64, proj. historian, 64-65. Consult, metrop. area study, Kansas City, Mo. Chamber Commerce, 52-53; charter rev, Culver City, Calif, 54; capital outlay bldg. proj, San Bernardino County, 55; Adv. Cmn. Intergovt. Rels, Wash, 67- Mem, Los Angeles County Citizens Econ. & Efficiency Cmt, 64-; Los Angeles Citizens Cmt. Zoning Practices & Procedures, 67- Polit. Sci. Asn; Soc. Pub. Admin. State and local government; metropolitan government; planning; political behavior. Publ: Special district governments in the United States, Univ. California, 57; co-auth, California government and politics, Prentice-Hall, 4th ed, 67; The metropolis, Harper, 65. Address: Dept. of Political Science, University of California, Los Angeles, Calif. 90024.

BOLLES, PROF. R(OBERT) C(HARLES), b. Sacramento, Calif, Apr. 24, 28; m. 51; c. 4. PSYCHOLOGY. A.B, Stanford, 48, M.S, 49; Ph.D.(psychol), California, 56. Instr. PSYCHOL, Princeton, 56-58; asst. prof, Pennsylvania, 58-59; Hollins Col, 59-66; PROF, WASHINGTON (SEATTLE), 66- Psychol. Asn; Psychonomic Soc. Animal learning and motivation. Publ: Theory of motivation, Harper, 67. Address: Dept. of Psychology, University of Washington, Seattle, Wash. 98105.

BOLLINGER, PROF. CLYDE JOHN, Geog, Climat, see Suppl. II to 11th ed, Phys. & Biol. Vols.

BOLNER, DR. JAMES JEROME, b. Plaucheville, La, Nov. 2, 36; m. 58; c. 3. GOVERNMENT. B.S, La. State, 58, Thomas Jefferson Mem. Found. fel, 59-62, M.A, 60; Ph.D.(polit. sci), Virginia, 62. Asst. prof. polit. sci, Alabama, 62-65; GOVT, Massachusetts, 65-67; ASSOC. PROF, LA. STATE, 67- Polit. Sci. Asn. American government; American constitutional theory, especially as related to the problems of minority rights. Publ: Co-auth, Civil rights in the political process, Bur. Govt. Res, Univ. Massachusetts, 67; auth, The politics of racial imbalance legislation, Harvard J. Legis, 67; Defining racial imbalance in public educational institutions, J. Negro Ed, 68. Address: Dept. of Government, Louisiana State University, Baton Rouge, La. 70803.

BOLSTER, MEL H(ALLIN), b.Fargo, N.Dak, Feb. 8, 23; m. 51; c. 3. POLITICAL SCIENCE. B.B.A, Minnesota, 47; M.A, Arkansas, 52; Georgetown, 52-60; American Univ, 64-67. Rep, Col. Textbook Co, 47-50; admin. asst, U.S. Dept. State, 52-53, personnel officer, 57-58, career develop. officer, 59-62; staff asst, Exec. Off. Secy, U.S. Dept. Navy, 54-56; dir. career exec. roster, U.S. Civil Serv. Cmn, 62-63, assoc. dir. mgt. insts, 64-66; STAFF ASST. OFF. DIR, NAT. INSTS. HEALTH, 66- Vis. lectr, Oklahoma, 66. U.S.N.R, 43-46. World Future Soc. American national government; public administration. Publ: The mountain mind: study of backwoods Americans from 1909 to 1940, Ark. Hist. Quart; Extending managerial competence: planning the transition from scientist to manager in the federal government, Nat. Insts. Health; The strategic deployment of exceptional talent; An account of the short history of the career executive roster, Pub. Admin. Rev. Address: 510 Greenwich St, Falls Church, Va. 22046.

BOLTON, PROF. CHARLES D(EWEY), b. Topeka, Kans, Dec. 19, 21; m. 54; c. 3. SOCIOLOGY. A.B, Denver, 47; A.M, Stanford, 48; Ph.D, Chicago, 59. Asst. prof, Colo. Col, 54-57; instr, Illinois, 57-59; asst. prof. SOCIOL, California, 59-64; assoc. prof, PORTLAND STATE COL, 64-67, PROF, 67-, CHMN. DEPT, 65- Grants, U.S. Pub. Health Serv. 62-64; U.S. Off. Ed, 67-68. Consult, Napa State Hosp, 60; De Witt State Hosp, 61- U.S.A, 42-45. Sociol. Asn; Soc. Study Social Probs. Social theory and psychology; sociology of education; community groups. Publ: Co-auth, The university student: a study of behavior and values, Col. & Univ, 67; auth, Behavior experience, and relationships: a symbolic interactionist point of view, J. Sociol; Is sociology a behavioral science, Pac. Sociol. Rev, spring 63. Address: 1061 S.W. Stephenson Court, Portland, Ore. 97219.

BOLTON, PROF. EURI BELLE, b. Parrott, Ga, Feb. 22, 95. PSYCHOLOGY. Gen. Ed. Bd. fel, Peabody Col, 22-25, B.S, 23, A.M, 24, Ph.D.(psychol), 30. Exten. worker, GA. STATE COL. FOR WOMEN, 18-22, prof. psychol, 25-58, ed, 28-49, EMER. PROF. PSYCHOL, 58- Guid. coordinator, Northeast Houston Independent Sch. Dist, 61-66. Consult, State Welfare Dept, Ga, 43-58. AAAS; Psychol. Asn. Publ: Relation of memory to intelligence; Measurement of attitudes toward mathematics; Brief evaluation of two tests of esthetic judgement. Address: 715 N. Pelham Rd, Jacksonville, Ala. 36265.

BOLTUCK, DR. CHARLES J(OSEPH), b. Montreal, Que, May 2, 23; m. 50; c. 2. CLINICAL PSYCHOLOGY. B.A, Sir George Williams Univ, 47; Ph.D, Indiana, 55. Asst, Indiana, 47-49, 50-53; U.S. Pub. Health Serv. intern clin. psychol, Wichita Guid. Center, 49-50; area psychologist, dept. except. children, State Dept. Ed, Ill, 53-55; chief clin. psychologist, Cleveland Boys Sch, Div. Child Welfare, Cuyahoga County Dept. Welfare, 55-63; clin. dir, St. Cloud Children's Home, 63-66; PROF. PSYCHOL, ST. CLOUD STATE COL, 66- Psychol. Asn. Effect of delay of reinforcement on acquisition and extinction measures; survey of inmate attitudes toward a training school program; effect of enrichment experiences on juvenile delinquents. Address: Dept. of Psychology, St. Cl[illegible]d State College, St. Cloud, Minn. 56301.

BOLYARD, DR. R(USSELL) H(OWARD), Sociol, see 10th ed, Soc. & Behav. Vols.

BOMBERGER, DR. RUSSELL B(RANSON), b. Lebanon, Pa, May 1, 34; m. 60; c. 1. PSYCHOLOGY, LAW. B.S, Temple, 55; M.A, Iowa, 56, M.A, 60, Ph.D. (commun), 62; M.S, Southern California, 61; LL.B, La Salle Exten. Univ, 68. Asst. prof. commun, NAVAL POSTGRAD. SCH, 58-63, ASSOC. PROF. PSYCHOL, 63- Am. Psychol. Found. fel, Columbia; Columbia Broadcasting Syst. KNXT fel, Southern California. Consult, Peace Corps; Frederick Burk Found. U.S.N.R, Lt. Int. Transactional Anal. Asn. Communications psychology; transactional analysis; law. Publ: Trends in communications research, Concern, 4/62; ed-abstractor, Scientific proceedings, Int. Transactional Anal. Bull, quarterly, 65- Address: 4089 El Bosque Dr, Pebble Beach, Calif. 93953.

BONBRIGHT, PROF. JAMES C(UMMINGS), b. Evanston, Ill, Dec. 5, 91; m. 33; c. 3. ECONOMICS. B.S, Northwestern, 13, LL.D, 56; Ph.D, Columbia, 20. Instr. econ, COLUMBIA, 20-21, asst. prof. FINANCE, 21-23, assoc. prof, 23-27, prof, 27-60, EMER. PROF, 60- Trustee, State Power Authority, N.Y, 31-45, v.chmn, 34-39, chmn, 39-45. Econ. Asn.(v.pres, 41); Am. Acad. Arts & Sci; Philos. Soc. Corporation finance. Publ: Public utilities and the national power policies; Valuation of property; Principles of public utility rates. Address: 29 Claremont Ave, New York, N.Y. 10027.

BOND, DR. ALPHA MAY, JR, b. Dumont, N.J, July 12, 30; m. 55; c. 3. SOCIOLOGY. B.A, Dartmouth Col, 52; M.A, Columbia, 53; Ph.D.(sociol), Emory, 63. Asst. prof. SOCIOL, MERCER, 61-65, ASSOC. PROF, 65- Sociol. Asn; Asn. Lab. Animal Sci. Social interaction with emphasis on animal sociology. Publ: Co-auth, Dimensions of status change, Sociol. & Soc. Res, 7/61. Address: Dept. of Sociology, Mercer University, Macon, Ga. 31207.

BOND, DR. BILLY J(OE), b. Deering, Mo, July 13, 30; m. 53; c. 2. AGRICULTURAL ECONOMICS. B.S, Missouri, 53; M.S, Illinois, 57, Ph.D, 59. Asst. agr. econ, Illinois, 55-58; asst. prof, Washington State, 58-60; eval. supvr. test demonstration br, TENN. VALLEY AUTHORITY, 60-64, asst. chief west. test & demonstration br, 64-67, CHIEF AGR. RESOURCE DEVELOP. BR, 67- U.S.N, 53-55, Lt. Farm Econ. Asn. Economic theory; application of economic principles and theory to the field of agricultural development; agricultural resource development. Publ: Bulkblending: an innovation in fertilizer marketing, Univ. Ill. Bull; Appraisal of human resources in Stevens County, Wash. State Univ. Bull; co-auth, A report on the Thailand fertilizer situation and potential, Agency Int. Develop, 5/66. Address: Agricultural Resource Development Branch, Tennessee Valley Authority, Muscle Shoals, Ala. 35660.

BOND, DR. ELDEN A, b. Bellingham, Wash, Oct. 13, 08; m. PSYCHOLOGY. A.B, Washington (Seattle), 34; A.M, Columbia, 35, Ph.D, 40. Instr. clin. psychol, Yale, 40-41; Harvard, 41-42; dir. ed. handicapped children, State Dept. Ed, Wash, 45-52; asst. supt. schs, Milwaukee, Wis, 52-63; head dept. spec. ed, San Francisco State Col, 63-66; PROF. ED, WEST. WASH. STATE COL, 66-, CHMN. DEPT, 67- U.S.A, 42-61. Psychol. Asn. Clinical and educational psychology; reading; intelligence. Address: Dept. of Education, Western Washington State College, Bellingham, Wash. 98225.

BOND, DEAN FLOYD A(LDEN), b. Farmington, Mich, Aug. 20, 13; m. 39; c. 2. ECONOMICS. A.B, Michigan, 38, fel, 38-42, A.M, 40, Ph.D, 42. Mem. econ. faculty, Michigan, 38-46, Rackham Grad. Sch. 42-46; assoc. prof. econ, Carleton Col, 46-48; Stedman-Sumner Found. prof. & chmn. dept, Pomona Col, 48-60; PROF. ECON. & DEAN GRAD. SCH. BUS. ADMIN, MICHIGAN, 60- Prof, Claremont Grad. Sch, 48-60; Fed. Res. Bank fel, 50; Ford Found. faculty fel, 54-55. Consult, S.Calif. Res. Coun, 52-60. Trustee, Joint Coun. Econ. Ed, 59-, dir, bus. ed. div, cmt. econ. develop, 50-60, consult, 61- Econ. Asn; Asn. Collegiate Schs. Bus.(secy-treas, 66-67, v.pres, 67-68, pres, 68-69). Monetary theory and policy; industrial organization and public policy; economic theory. Publ: Public regulation in action; Our needy aged, a California study of a national problem; Preparation for business leadership, In: Views of top executives. Address: Graduate School of Business Administration, University of Michigan, Ann Arbor, Mich. 48104.

BOND, PROF. HORACE M(ANN), b. Nashville, Tenn, Nov. 8, 04; m. 29; c. 3. EDUCATIONAL SOCIOLOGY. A.B, Lincoln (Pa), 23; M.A, Chicago, 26, Rosenwald fel, 31-32, Ph.D.(ed), 36; hon. LL.D, Lincoln (Pa), 41 & Temple, 52. Instr. ed, Lincoln (Pa), 23-24; prof. & head dept, Langston, 24-27; dir. exten. ed, Ala. State Col, 27-28; instr. soc. studies, Fisk, 28-29, asst. prof. ed, 32-33, head dept, 38-39; res. asst, Rosenwald Fund, 29-31 & 37-38; dean, Dillard, 33-37; pres, Ft. Valley State Col, 39-45; Lincoln (Pa), 45-57; PROF. ED. SOCIOL, ATLANTA, 57-, DIR. ED. & SOC. RES, 66-, dean sch. ed, 57-66. Lectr, Tuskegee Inst, 32-33; summers, lectr, Garrett Biblical Inst, 45, staff mem, UNESCO Seminar, Eng, 48. Mem, Joint Army & Navy Cmt. Ed. & Welfare in Armed Serv, 42-44; ed. surv. W.Africa, Cmn. Univ. Ghana, 49-62; mem, Cmt. Ed. Beyond High Sch, 55-59. Ed. Res. Asn; Sociol. Asn. Tests and measurements; history and sociology of race relations; history, sociology and economics of Negro education. Publ: Education of the Negro in the American social order, Prentice-Hall, 34, reprinted, Octagon, 66; Negro education in Alabama: a study in cotton and steel, Assoc. Pub, 39; The search for talent: Ingliss lecture, Harvard Univ, 59. Address: Dept. of Educational Sociology, Atlanta University, Atlanta, Ga. 30314.

BOND, PROF. JAMES G(EORGE), b. Lorain, Ohio, Apr. 17, 24; m. 50; c. 2. PSYCHOLOGY. B.A, Baldwin-Wallace Col, 48; M.A, Bowling Green State, 49; Ph.D.(psychol), N.Y. Univ, 54. Staff psychologist, Toledo State Hosp, 50-52, chief psychologist, 52-66; assoc. clin. prof. PSYCHOL, BOWLING GREEN STATE, 66-67, PROF, 67-, V.PRES. STUDENT AFFAIRS, 67-, dir. psychol. clin, 66-67. Res. & prog. consult, Toledo State & Receiving Hosp, 66- U.S.A, 43-46. Psychol. Asn. Group and individual psychotherapy; tests for organicity; anxiety and learning. Address: Administration Bldg, Bowling-Green State University, Bowling Green, Ohio. 43402.

BOND, DR. JOHN AVERY, b. Minneapolis, Minn, Oct. 22, 19; m. 49; c. 2. POLITICAL SCIENCE. B.S, Trinity Col.(Conn), 42; M.A, Chicago, 48; Ph.D, Minnesota, 56. Instr. POLIT. SCI, N.Dak. State, 56-58, asst. prof, 58-62, ASSOC. PROF, 62-67; SOUTH. COLO. STATE COL, 67- Chmn, Fargo Mayor's Task Force on City Govt, N.Dak. U.S.M.C, 42-46, Sgt. Polit. Sci. Asn. Legislative reapportionment in Minnesota. Publ: Study of the collection of delinquent personal property taxes in North Dakota; co-auth, A final report of the Fargo mayor's task force on city government, Congressional Record, 1/67. Address: Dept. of Political Science, Southern Colorado State College, Pueblo, Colo. 81001.

BOND, PROF. M(AURICE) C(HESTER), Agr. Econ, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BOND, DR. NICHOLAS A(NDERSON), JR, b. Tenn, Oct. 21, 22; m. 50; c. 2. PSYCHOLOGY. B.A, Southern California, 49, M.A, 52, Ph.D.(psychol), 55. Res. psychologist, Sheridan Supply Co, 51-52; asst, Southern California, 52-53, res. assoc, 53-59; assoc. psychologist, Dunlap & Assoc, 59-61; ASSOC. PROF. PSYCHOL, SACRAMENTO STATE COL, 61- Lectr, Southern California, 57-58. Britt award, 54. U.S.A, 44-46. Human Factors Soc; Oper. Res. Soc; Psychomet. Soc; Statist. Asn; Psychol. Asn. Human engineering; applied statistics; problem solving. Address: 4701 Anne Way, Carmichael, Calif. 95608.

BONDE, PROF. RUTH, b. Bloomington, Minn, Feb. 25, 05. FAMILY ECONOMICS. B.S, Minnesota, 36; M.S, Iowa State Col, 40. Asst. prof. home econ, Pa. State Col, 40-43; assoc. prof. HOME ECON, Macalester Col, 43-44; PROF. & CHMN. DEPT, NORTHWESTERN, 44- Mem. Nat. Coun. Family Rels; Int. Fedn. Home Econ; cmt. to Bur. Human Nutrit. & Home Econ, U.S. Dept. Agr, 52-54; pres, Nat. Coun. Adminstr. Home Econ, 60-63. Econ. Asn; Sociol. Asn; Home Econ. Asn.(secy, 49-51). Family economics. Publ: Management in daily living; ed. & co-auth, chaps. on income, expenditures & money management, In: The individual marriage and the family, W.C. Brown, 3rd ed, 67. Address: 314 Fisk Hall, Northwestern University, Evanston, Ill. 60201.

BONDEL, DR. GERTRUDE, Psychol, see 10th ed, Soc. & Behav. Vols.

BONDER, DR. SETH, b. New York, N.Y, July 14, 32; m. 62; c. 2. OPERATIONS RESEARCH, INDUSTRIAL ENGINEERING. B.S, Maryland, 60; Ph.D. (indust. eng), Ohio State, 65. Res. asst. INDUST. ENG, Ohio State, 61, res. assoc, 61-62, proj. supvr. & prin. investr, 62-65; ASST. PROF, MICHIGAN, 65- Lectr. Nat. Sci. Found. summer inst. eng. systs. optimization, Colorado, 67. Consult, Off. Under Secy. Army & U.S. Army Res. Off. U.S.A.F, 51-56, Capt. AAAS; Opers. Res. Soc. Operations research and systems analysis methodology with applications to defense planning. Publ: A theory for weapon systems analysis, Proc. Army Opers. Res. Symp, 65; The Lanchester attrition-rate coefficient, J. Opers. Res. Soc. Am, 67; Developing planning procedures for armored weapon systems, Trans. Am. Soc. Agr. Engrs, 67. Address: Dept. of Industrial Engineering, 231 W. Engineering, University of Michigan, Ann Arbor, Mich. 48104.

BONDURANT, DR. JOAN V(ALERIE), b. Great Bend, Kans, Dec. 16, 18. POLITICAL SCIENCE. A.B, & B.Mus, Michigan, 42; univ. fel, California, 50-51, McEnery fel, 51-52, Ph.D.(polit. sci), 52. Soc. Sci. Res. Coun. fel, 52-53; RES. POLIT. SCIENTIST, CALIFORNIA, BERKELEY, 53-, LECTR. POLIT. SCI, 54- Fel, Am. Inst. Indian Studies, 65. Polit. Sci. Asn; Asn. Asian Studies. Government and politics in South Asia; Indian political thought; theories of change; problems of conflict. Publ: Conquest of violence: the Gandhian philosophy of conflict, Univ. California, 2nd ed. rev, 65 & 67; The non-conventional political leader in India, In: Leadership and political institutions in India, Princeton, 59; Paraguerrilla strategy: a new concept in arms control, In: Weapons management and world politics, Joint Issue J. Conflict Resolution & J. Arms Control, 10/63. Address: Dept. of Political Science, University of California, Berkeley, Calif. 94720.

BONDURANT, PROF. JOHN H(ARVY), b. Benton, Ky, Dec. 26, 00; m. 28; c. 2. AGRICULTURAL ECONOMICS. B.S, Kentucky, 26; M.S, Cornell, 31, Gen. Ed. Bd. fel, 41-42, Ph.D, 43. Field agent farm mgt, KENTUCKY, 32-33, economist farm econ, agr. exp. sta, 35-58, assoc. prof. AGR. ECON, UNIV, 53-58, PROF, 58- State projs. mgt. mgr, U.S. Resettlement Admin, 34; mem. res. cmt, N.Cent. Land Econ, 44- Agr. Econ. Asn. Land and production economics; farm management. Publ: Profitable factors for corn production in Kentucky & Land classification and farm returns, Ky. Agr. Exp. Sta. Bull; co-auth, Tax considerations involved in incorporating the farm business, Ky. Agr. Exp. Sta. Bull. 700, 6/65. Address: Dept. of Agricultural Economics, University of Kentucky, Lexington, Ky. 40506.

BONE, PROF. HUGH A(LVIN), b. Sycamore, Ill, Jan. 14, 09; m. 38; c. 2. POLITICAL SCIENCE. A.B, N.Cent. Col, 31; scholar, Wisconsin, 34-36, A.M, 35; Ph.D, Northwestern, 37. Instr. POLIT. SCI, Evanston Col. Inst, 37; asst. prof, Maryland, 37-42; Queens Col.(N.Y), 42-48; PROF, WASHINGTON (SEATTLE), 48-, CHMN. DEPT, 59- Mem. curriculum construct. staff ed. br, U.S. Dept. Army, 43; vis. prof, Columbia, Stanford & Hawaii. Polit. Sci. Asn. National government; political parties and pressure groups; legislation. Publ: American politics and the party system; Party committees and national politics; Washington politics. Address: Dept. of Political Science, University of Washington, Seattle, Wash. 98105.

BONE, DR. JOHN HENRY, b. Nanticoke, Pa, Apr. 21, 14; m. 43; c. 2. PSYCHOLOGY. B.S, Bucknell, 38, M.S, 42; D.Ed, Pa. State, 57. Training officer, Vet. Admin, 45-52; guid. dir, Bellefonte Area Schs, 52-57; DIR. ADMISSIONS, LOCK HAVEN STATE COL, 57- Psychol. consult, Piper Aircraft Corp, 57-; State Dept. Health, Pa, 58-67. Capt, Intel.C, 42-45, Res, 45-52. Psychol. Asn; Personnel & Guid. Asn. Psychological testing and establishing norms for executive positions in aircraft industries and achievement norms for Pennsylvania state colleges. Address: 328 S. Main St, Jersey Shore, Pa. 17740.

BONE, DR. R. M, b. Regina, Sask, June 20, 33; m. 61; c. 1. GEOGRAPHY. B.A, British Columbia, 55; M.A, Washington, 57; Ph.D.(geog), Nebraska, 62. Geographer, Can. Govt, 59-63; asst. prof. GEOG, SASKATCHEWAN, 63-67, ASSOC. PROF, 67- Can. Asn. Geog. Union of Soviet Socialist Republics; Polar lands; economic and regional geography. Publ: Soviet tea cultivation, Ann. Asn. Am. Geogr, 6/63; The Soviet forest resource, Can. Geogr, 66, Regional planning and economic regionalization in the Soviet Union, Land Econ, 8/67. Address: Dept. of Geography, University of Saskatchewan, Saskatoon, Sask, Can.

BONE, PROF. ROBERT CLARKE, b. Coatesville, Pa, Mar. 18, 18; m. 47; c. 2. POLITICAL SCIENCE. B.S, Haverford Col, 39; Southeast Asia fel, Cornell, 54-55, Ford Found. fel, 55-57, Ph.D.(polit. sci), 57. Jr. archivist, Nat. Arch, D.C, 46-47; for. serv. officer, U.S. State Dept, 47-53; asst. prof. polit. sci, Tulane, 57-61; assoc. prof. GOVT, FLA. STATE, 61-64, PROF, 65- Consult, U.S. Dept. Defense, 60. U.S.A, 41-46, 1st Lt. Polit. Sci. Asn; Southeast Asian government and politics, especially Indonesia; Dutch government and politics; political sociology of constitutions. Publ: Contemporary Southeast Asia; Dynamics of the West New Guinea problem; Dynamics of Dutch politics, J. Polit. Address: 2057 Florida Ave, Tallahassee, Fla. 32303.

BONEAU, DR. C(HARLES) ALAN, b. Cincinnati, Ohio, Feb. 2, 26; m. 55; c. 3. EXPERIMENTAL PSYCHOLOGY, STATISTICS. B.A, Cincinnati, 50, M.A, 51; Ph.D.(psychol), Duke, 57. Supvr. employ. testing, aircraft gas turbine div, Gen. Elec. Co, Ohio, 51-53; asst. prof. psychol, Duke, 57-61, assoc. prof, 61-67; ADMIN. OFFICER ED. AFFAIRS, AM. PSYCHOL. ASN, 67- U.S. Pub. Health Serv. fel, Duke, 57-58 & spec. fel, Stanford, 66-67. U.S.N, 44-46. Psychol. Asn; Psychonomic Soc. Classical and instrumental conditioning learning, especially discrimination and generalization; decision processes and mathematical models for discriminative behavior. Publ: Interstimulus interval and latency of conditioned eyelid response, J. Exp. Psychol; Effects of violation of assumptions underlying the T test, Psychol. Bull; co-auth, Decision theory, the pigeon, and the psychophysical function, Psychol. Rev, 67. Address: American Psychological Association, 1200 17th St. N.W, Washington, D.C. 20036.

BONESS, DR. A(RTHUR) JAMES, JR, b. Milwaukee, Wis, Apr. 18, 28. BUSINESS ADMINISTRATION, ECONOMICS. B.A, Wisconsin, 49, M.A, 50; Minnesota, 50-51 & 55; Marquette, 55-58; Ph.D.(bus), Chicago, 62. Teaching intern indust. mgt, Mass. Inst. Tech, 61-62; asst. prof. bus. admin. & econ, Pittsburgh, 62-64; ECONOMIST, Inst. Defense Anal, 64-65; CENTER NAVAL ANAL, 65- Vis. assoc. prof. finance, State Univ. N.Y. Buffalo, 68- U.S.A, 52-54. Econ. Asn; Economet. Soc. Cost of capital; futures markets; portfolio management; decision theory; microeconomic theory; public finance. Publ: A pedagogic note on the cost of capital, J. Finance, 64; Elements of a theory of stock-option value, J. Polit. Econ, 64; Some evidence on profitability of trading in puts and calls, In: Random character of stock market prices, Mass. Inst. Tech, 64. Address: Center for Naval Analyses, 1401 Wilson Blvd, Arlington, Va. 22209.

BONEY, DR. FRANCIS NASH, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BONIME, DR. WALTER (RAYMOND), b. Montville, Conn, July 12, 09; m. 40; c. 2; m. 53. PSYCHIATRY. B.A, Wisconsin, 33; M.D, Columbia, 38. MEM. PSYCHOANAL. FACULTY, N.Y. MED. COL, 48-, ASSOC. CLIN. PROF. PSYCHIAT, 57- Assoc. attend. psychiat, Flower & Fifth Ave. Hosps, 57; assoc. vis. psychiatrist, Metrop. Hosp, New York, 62- U.S.P.H.S, 43-46, Asst. Surgeon. AAAS; fel. Psychiat. Asn; Acad. Psychoanal. Psychoanalysis; dreams; depression. Publ: The clinical use of dreams, Basic Books, 62; Psychodynamics of neurotic depression, In: Am. handbook of psychiat, vol. III, Basic Books, 66; Competitiveness and cynicism as factors in personality development, In: The etiology of the neuroses, Sci. & Behav, 66. Address: 10 Park Ave, New York, N.Y. 10016.

BONIN, PROF. JOSEPH M(AURICE), b. Kaplan, La, Mar. 21, 30; m. 56; c. 4. PUBLIC FINANCE. B.S, Spring Hill Col, 50; M.A, La. State, 52, Earhart Found. fel, 56-57, Ph.D.(econ), 60. Instr. econ, La. State, 57-58, asst. prof, 59-60; Arkansas, 58-59; assoc. prof, Auburn, 60-63, prof, 63-64; soc. sci. analyst, div. res. & statist, Soc. Security Admin, 64-65; PROF. econ, Auburn, 65-66; FINANCE, GEORGIA, 66- U.S.N, 52-55, Lt. Finance Asn; Econ. Asn. Seasonal fluctuations; Old-Age and Survivors Disability Insurance Program financing; fiscal policy; state and local finance. Publ: Some economic effects of seasonality in OASDHI tax payments, Soc. Security

Admin, 67; Systems analysis, operations research, and state and local borrowing, Pub. Finance, 64; Seasonality and economic analysis, South. Econ. J, 68. Address: Dept. of Banking & Finance, College of Business Administration, University of Georgia, Athens, Ga. 30601.

BONINI, DR. CHARLES P(IUS), b. Ridgway, Pa, Nov. 22, 33; m. 58; c. 7. ECONOMICS. A.B, Col. Holy Cross, 55; M.S, Carnegie Inst. Tech, 57, fel, 57-59, Ph.D, 62. Instr. indust. mgt, Carnegie Inst. Tech, 58-59; asst. prof. STATIST, GRAD. SCH. BUS, STANFORD, 59-64, ASSOC. PROF, 64- Qual. control engr, Sylvania Elec. Co, Pa, 55; external exam, Univ. Ghana, 65- Consult. statistician, Nat. Supply Co, 57; consult, Rand Corp, 64- Inst. Mgt. Sci. Business information systems; application of quantitative decision techniques to business and government; management of research and development. Publ: Simulation of information and decision systems in the firm, Markham, 67; co-auth, Quantitative analysis for business decisions, 65 & Statistical analysis for business decisions, 67, Irwin. Address: Graduate School of Business, Stanford University, Stanford, Calif. 94305.

BONJEAN, DR. CHARLES M(ICHAEL), b. Pekin, Ill, Sept. 7, 35. SOCIOLOGY. B.A, Drake, 57; M.A, North Carolina, 59, Ph.D.(sociol), 63. Instr. SOCIOL, North Carolina, 60-63; asst. prof, TEXAS, 63-66, ASSOC. PROF, 66- Consult, Hogg Found. Ment. Health, 63- Ed, Soc. Sci. Quart, 66- Sociol. Asn; Soc. Study Soc. Probs. Community social structure; industrial sociology; sociological measurement. Publ: Co-auth, Sociological measurement, Chandler Pub, 67; Community leadership: directions of research, Admin. Sci. Quart, 12/64; auth, Mass, class and the industrial community, Am. J. Sociol, 9/66. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

BONK, PROF. WILLIAM J(OHN), b. College Point, N.Y, May 28, 24; m. 49; c. 3. ANTHROPOLOGY, SOCIOLOGY. B.A, Hawaii, 51, M.A, 54; Illinois, 60-63. Asst. anthrop, Hawaii, 51-53; field dir. archaeol, B.P. Bishop Mus, 53-54; instr. anthrop. & sociol, HAWAII, HILO, 54-62, ASST. PROF. ANTHROP, 63-, CHMN. SOC. SCI. & ED. DIV, 65- Hon. anthrop. assoc, B.P. Bishop Mus, 59-; Dept. Health, Ed. & Welfare res. grant, 60. C.Eng, U.S.A, 43-46. Anthrop. Asn; Soc. Am. Archaeol; Soc. Appl. Anthrop; Polynesian Soc, N.Z. Hawaiian and Pacific archaeology and culture; culture change and the effect of stress or disasters on cultural behavior and attitudes. Publ: Co-auth, Hawaiian archaeology: fishhooks; auth, Prehistoric man in Hawaii, Archaeology; co-auth, Human behavior during the Tsunami of May 1960's, Science. Address: Social Science & Education Division, University of Hawaii, Hilo, Hawaii 96720.

BONKOWSKI, DR. ROBERT J, b. Toledo, Ohio, Feb. 17, 35; m. 67. CLINICAL PSYCHOLOGY, NEUROPSYCHOLOGY. B.A, Toledo, 57; M.A, Bowling Green State, 60; U.S. Pub. Health Serv. fel, California, Los Angeles, 63-65, Ph.D.(psychol, neurophysiol, statist), 65. ASST. PROF. MED. PSYCHOL, CALIFORNIA, LOS ANGELES, 65-; CLIN. PSYCHOLOGIST, HARBOR GEN. HOSP, 65- Supv. sr. consult, Oper. Head Start, 66- U.S.A, 57, Res, 57-65, Capt. AAAS; Psychol. Asn. Neurophysiological correlates of language; personality variables in dyadic helping relationships. Address: Dept. of Medical Psychology, University of California, Los Angeles, Calif. 90024.

BONNELL, DR. ALLEN THOMAS, b. Colon, Panama, Apr. 7, 12; m. 37; c. 4. INTERNATIONAL ECONOMICS & FINANCE. B.A, Oberlin Col, 33, M.A, 34; Bonn, Germany, 35-36; fel, Illinois, 34-35, 36-37, Ph.D, 37. Instr. econ, St. Louis, 37-38; asst. prof, North Carolina, 38-47; v.pres, Drexel Inst. Tech, 48-65; PRES, COMMUNITY COL. PHILA, 65- Relief adminstr, Am. Friends Serv. Cmn, France, 40-41; div. asst, U.S. Dept. State, 42-43; prin. economist, U.S. Dept. Agr, 43-44; div. dir, bur. supply, UNRRA, 44-48. Mem, Gov. Pa. Coun. Sci. & Tech, 63-65. AAAS.(secy, indust. sci. sect, 52-64, v.pres, 65); Econ. Asn. Trade and finance control mechanisms; social, economic and political consequences of technological advances; industrial science; projected requirements for higher education in scientific and technological fields. Publ: German control over international economic relations, 1930-1940; co-ed, Industrial science: present and future. Address: Community College of Philadelphia, Philadelphia, Pa. 19107.

BONNEN, PROF. C(LARENCE) A(LFRED), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

BONNEN, PROF. J(AMES) T(HOMAS), b. Brookings, S.Dak, Mar. 11, 26; m. 54; c. 5. ECONOMICS. B.A, Texas A&M, 48; M.A, Duke, 50; fel, Harvard, 51-54, Ph.D.(econ), 64. Resident tutor econ, Harvard, 51-54; asst. prof. AGR. ECON, MICH. STATE, 54-59, assoc. prof, 59-66, PROF, 66- Sr. staff economist, President's Coun. Econ. Adv, 63-65, consult, 65-; mem, President's Task Force Agr, 64; President's Nat. Adv. Cmn. Rural Poverty, 66-67. U.S.N, 43-46, Res, 46-, Comdr. Econ. Asn; Agr. Econ. Asn. Agricultural policy; economics of welfare; educational policy; intergovernmental relations. Publ: Present and prospective policy problems of U.S. agriculture, 12/65 & Rural poverty: programs and programs, 5/66, J. Farm Econ; Distribution of benefits from the cotton price support program, In: Problems in public expenditure analysis, Brookings, fall 67. Address: 1732 Linden St, East Lansing, Mich. 48823.

BONNER, DR. BRANT, b. Ridgetown, Ont, June 9, 09. ECONOMICS, BUSINESS ADMINISTRATION. Ph.B, Chicago, 31; Ph.D, North Carolina, 42. Instr. bus. admin, Washington & Lee, 38-39; econ, North Carolina, 39-40, 41-42; assoc. prof. econ. & bus. admin, Furman, 42-44; econ, col. bus. admin, Florida, 45-47; prof. bus. admin, Western Ontario, 47-56; staff supvr. indust. statist, Dow Chem. Co, 56-63; DIR. INT. BUS. PROGS, SCH. BUS. & ECON, WATERLOO LUTHERAN, 63- Fel. AAAS; fel. Soc. Qual. Control; fel. Royal Statist. Soc. Business finance and statistics; statistical quality control. Address: School of Business & Economics, Waterloo Lutheran University, Waterloo, Ont, Can.

BONNER, PROF. HUBERT, b. Rolitz, Austria, Aug. 8, 01; nat; m. 36; c. 2. HUMANISTIC PSYCHOLOGY. A.B, Ohio State, 25, A.M, 26; A.M, Harvard, 29; Ph.D, Chicago, 49; Vienna, 63. Asst. prof. philos, North Mich. Col, 31-33; instr. psychol. & sociol. & dir. personnel, Gogebic Col, 33-38; instr. sociol, Chicago, 39-47; PROF. psychol, Ohio Wesleyan, 47-67; HUMANISTIC PSYCHOL, U.S. INT. UNIV, 67- Vis. prof, Missouri, 53; Columbia, 53-55; Ohio, 60; Ohio State, 59-61; vis. Fulbright-Hayes centennial prof, American Univ. Beirut, 66-67. AAAS; Psychol. Asn. Personality. Publ: Psychology of personality; Group dynamics, Ronald, 59; On being mindful of man, Houghton Mifflin, 65. Address: U.S. International University, 3902 Lomaland Dr, San Diego, Calif. 92106.

BONNER, PROF. JAMES C(ALVIN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BONNER, DR.MIRIAM ROSE, b. Marshall, Va, Nov. 16, 14. PSYCHOLOGY. A.B, Park Col, 35; M.A, Michigan, 36, Ph.D.(psychol), 41; Denver, 42 & summer 63. Lab. asst. psychol, Park Col, 33-37; instr. psychol. & speech, BOB JONES, 39-53, PROF. SPEECH, 53-, chmn. dept, 43-53. Stagefright; fear in speech situations. Address: Dept. of Speech, Bob Jones University, Greenville, S.C. 29614.

BONNER, PROF. THOMAS N(EVILLE), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BONNER, PROF. WILLIAM S(NYDER), b. Monroe Co, N.Y, July 6, 20; m. 42; c. 1. SOCIOLOGY. B.A, Mich. State, 42; M.R.P, North Carolina, 48. Instr. sociol, Oklahoma, 47-48, asst. planning, 48-49; sr. planner analyst, El Paso Dept. Planning, Tex, 49-50; asst. prof. SOCIOL. & CITY PLANNING, ARKANSAS, 50-55, assoc. prof, 55-62, PROF, 62-, HEAD CITY PLANNING DIV, 54- U.S.A, 42-45, Res, 45-, Lt. Col. Inst. Planners. Developing more effective planning programs for small cities; coordination of highway and land use planning. Publ: Effective planning for small cities, City Planning Div, Univ. Arkansas, 3/67. Address: Dept. of Sociology & City Planning, University of Arkansas, Fayetteville, Ark. 72701.

BONNEY, PROF. M(ERL) E(DWIN), b. Pomeroy, Wash, Oct. 26, 02; m. 36; c. 2. PSYCHOLOGY. A.B, Willamette, 25; M.A, Stanford, 27; Ph.D.(ed. psychol), Columbia, 35. Mem. faculty ed. & psychol, Ore. Norm. Sch, 27-31; West. State Col. Colo, 33-34; from mem. faculty to DISTINGUISHED PROF. PSYCHOL, NORTH TEXAS STATE, 35- Consult. Psychol. Asn. Social development of children; sociometry. Publ: A sociometric study of the peer acceptance of rural students in three consolidated high schools, Ed. Admin. & Supv; Choosing between the sexes on a sociometric measurement, J. Soc. Psychol; Social behavior differences between second grade children of high and low sociometric status, J. Ed. Res. Address: Box 5323, North Texas Station, Denton, Tex. 76203.

BONNIWELL, PROF. BERNARD L(EONARD), b. Wayne, Pa, July 16, 08; m. 41; c. 2. PSYCHOLOGY. Ph.B, Georgetown, 32; M.A, Pennsylvania, 39; Ph.D.(counseling, ed), Ottawa, 60. Asst. instr. psychol, Pennsylvania, 37-41; employ. supvr, Bd. Ed, Phila, 41-42; clin. psychologist, med. div, Munic. Court, 42-43, 46-47; asst. prof. PSYCHOL, St. Joseph's Col.(Pa), 47-52; assoc. prof, VILLANOVA, 53-67, PROF, 67-, chmn. dept, 57-61. Lectr, Harcum Jr. Col, 42-43; Loyola Col.(Md), 49; prof, St. Dunstan's, summer, 67. Psychol. exam, adoptions div, Catholic Soc. Serv, Phila, 60-68. Field res, Cape Kennedy area, Fla, 62-63. Med.Admin.C, 43-46, Res, 46-61, 1st Lt. Human stress factors; identification and selection of individuals capable of responding proficiently in a new and continuously developing stress situation; decision-stress correlation. Publ: General psychology outline, Villanova, 54, rev. ed, 56; The tap roots of psychology, W.C. Brown, 66; co-ed, Studies in social mobility, Villanova,66. Address: Dept. of Psychology, Villanova University, Villanova, Pa. 19085.

BONSALL, DR. MARCELLA RYSER, b. Dallas, Tex, Apr. 13, 07; m. 54. EDUCATIONAL PSYCHOLOGY. B.E, California, Los Angeles, 30; M.E, Southern California, 45, Ed.D, 52. Teacher, Garvey Sch. Dist, Calif, 30-40; Los Angeles City Schs, 40-45, prin. elem, 45-50; asst. ed. psychol, Southern California, 50-51; prin. elem. ment. retarded, Los Angeles City Schs, 51-54, supvr. counseling guid, 54-56, consult. res. guid, Los Angeles County Schs, 58-65; CONSULT, 65- Lectr, Southern California, 50-64; Immaculate Heart Col, 58-59; Jameson Found. grant, 65 & 66. Consult, Calif. State Dept. Ed, 57; ed. consult, Rand Corp, 67- Chmn. cmt. children & youth, Int. Coun. Psychol, 67- Citation merit, Nat. Asn. Gifted Children, 65. Personnel & Guid. Asn; Psychol. Asn; Ed. Res. Asn. Psychology and education of gifted; films, educational, on educationally disadvantaged gifted children and youth; creativity. Publ: Chap. in: Creativity and counseling, Indiana Univ, 67. Address: 137 Warwick Place, South Pasadena, Calif. 91030.

BONSER, DR. HOWARD J(ACOB), b. Tannersville, Pa, Apr. 14, 02; m. 34; c. 2. RURAL SOCIOLOGY, AGRICULTURAL ECONOMICS. B.S, Pa. State, 30, M.S, 32, Ph.D, 57. Asst. agr. econ, Pa. State, 31-36; from asst. agr. economist to rural sociologist, Tennessee, 37-56; prof. rural sociol, exten. Pa. State, 57-67; LEADER HEALTH ED. PROJ, NAT. FOUR-H CLUB FOUND, 67- Consult, U.S. Soil Conserv. Serv, 36. Rural Sociol. Soc; Agr. Econ. Asn; Pop. Asn. Am. Rural community organization; land tenure; part-time farming. Publ: Factors in farm organization and returns to tenants and landlords by types of leasing arrangement, West Tennessee & Better farming practices through rural community organizations, Tenn. Agr. Exp. Sta. Bull; Chairmans job. Address: 521 E. Prospect Ave, State College, Pa. 16801.

BONWICH, PROF. WILLIAM T(HOMAS), b. New York, N.Y, Mar. 7, 26; m. 54; c. 1. MARKETING. B.S.C, Notre Dame, 48; M.S, N.Y. Univ, 54; D.B.A, (mkt, mgt, econ. theory, govt. & bus, bus. hist), Indiana, 59. Asst. mgr, Nat. Retail Merchants Asn, 48-50; asst. buyer, Carson, Pirie, Scott & Co, 50-51; instr. MKT, Notre Dame, 51-54, asst. prof, 54-59, assoc. prof, 59-65; ASSOC. PROF. & CHMN. DEPT, ST. LOUIS, 65- Ford Found. scholar, grad. sch. bus, Harvard, summer, 65. Econ. Asn; Mkt. Asn. Growth, development and future of non-foods in supermarkets; consumer buying habits. Publ: Merchandise control manual for smaller store; How ten chains merchandise non-foods, Food Topics; New approach to marketing theory, In; Indiana readings and business. Address: 3674 Lindell Blvd, St. Louis, Mo. 63108.

BOOCHEVER, LOUIS C(HARLES), b. Madison, Ga, May 22, 20; m. 45; c. 4. ECONOMICS, GOVERNMENT. A.B, Cornell, 41; fel, Harvard, 41-42, M.P.A,

47, fel. & M.A, 48. Res. analyst, Div. Res. for Europe, U.S. DEPT. STATE, 45-46, int. rels. officer, European econ. affairs, 50-56, for. serv. officer, dep. U.S. rep. to European coal & steel community, 56-60, dep. to U.S. rep, orgn. econ. coop. & develop, 60-61, DEP. DIR, off. int. financial & develop. affairs, 61-62, int. develop. orgns. staff, 62-64, ECON. COUNSR, AM. EMBASSY, BELGRADE, 65- Economist, Econ. Coop. Admin, 48-50. Sig.C, U.S.A, 42-45. Econ. Asn. European integration; international economic policy. Publ: European payments union, U.S. Dept. State Bull; Significance and development of East-West trade. Address: Dept. of State, Washington, D.C. 20025.

BOOKBINDER, HYMAN H(ARRY), b. New York, N.Y, Mar. 9, 16; m. 38; c. 2. ECONOMICS, POLITICAL SCIENCE. B.S.S, City Col, 37; New Sch. Soc. Res, 40-43; N.Y. Univ, 44-48. Economist, Amalgamated Clothing Workers of Am, 40-50; dep. asst. adminstr, Nat. Prod. Authority, 50-53; chief cong. res, Cong. Indust. Orgn, 53-55, legis. rep, Am. Fedn. Labor-Cong. Indust. Orgn, 55-61; spec. asst. to secy, U.S. Dept. Commerce, 61-62; dir, Eleanor Roosevelt Mem. Found, 63-64; asst. dir, Off. Econ. Opportunity, 64-67 & spec. asst. to V.President of U.S, 65-67; WASH. REP, AM. JEWISH CMT, 68- Guest lectr, St. John's Col.(Md) & George Washington, 50- Mem, President's Cmn. Status of Women; President's Cmn. Youth Employment; exec. officer, President's task force on poverty. U.S.N, 43-45. Econ. Asn; Indust. Rels. Res. Asn. Labor economics; economic development; collective bargaining. Publ: To promote the general welfare. Address: 6308 Bannockburn Dr, Bethesda, Md. 20034.

BOOKBINDER, DR. LAWRENCE J(OSEPH), b. New York, N.Y, June 28, 30. PSYCHOLOGY. B.E.E, Cooper Union, 51; M.S, Northwestern, 56, Ph.D. (clin. psychol), 59. Res. clin. psychologist, Vet. Admin. Hosp, Ann Arbor, Mich, 59-62, clin. psychologist, ment. hyg. clin, Allen Park, 62-65; CONSULT. PSYCHOLOGIST, 63- Clin. psychologist, Wayne County Ment. Health Clin, Detroit, 67- U.S.A, 53-54. Psychol. Asn. Psychoanalytic therapy; psychoanalytic psychology. Publ: The application of psychodynamic thinking to hypnotic behavior, Psychiat. Quart, 61; Simple conditioning versus the dynamic approach to symptoms and symptom substitution: a reply to Yates, Psychol. Reports, 62; Responsibility for management of patients in psychotherapy and competence in psychotherapy, Psychol. Reports, 65. Address: 15800 W. McNichols Rd, Detroit, Mich. 48235.

BOOKHOUT, DR. BYRON R(EID), b. Otego, N.Y, Nov. 27, 14; m. 44; c. 1. AGRICULTURAL ECONOMICS. B.S, Cornell 39, M.S, 40; Res. Found. fel, Purdue, 40-42, Ph.D, 42. Exten. specialist farm mgt, Mich. State, 44-46, asst. prof. agr. econ. res, 46-51; agr. statistician, Statist. Reporting Serv, Agr. Estimates Div, U.S. Dept. Agr, Mich, 51, Ind, 51-55, Ky, 55-61, Wash, D.C, 61-66; AGR. STATISTICIAN IN CHARGE, STATIST, REPORTING SERV, MD-DEL. STATE STATIST. OFF, 66- U.S.A.A.F, 42-44. Agr. Econ. Asn. Farm labor use; efficiency and work simplification; agricultural production surveys and crop and livestock estimates. Address: Statistical Reporting Service, Maryland-Delaware State Statistical Office, P.O. Box 68, College Park, Md. 20740.

BOOKMAN, DR. JOHN T(URNER), b. Cincinnati, Ohio, Dec. 7, 38; m. 60; c. 1. POLITICAL SCIENCE. A.B, Cincinnati, 60, Nat. Defense Ed. Act fel. & Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, COLO. STATE COL, 66- Polit. Sci. Asn. Normative political theory; international relations. Address: Dept. of Political Science, Colorado State College, Greeley, Colo. 80631.

BOOM, PROF. HENDRIK J, b. Hilversum, Netherlands, Sept. 10, 17; Can. citizen; m. 42; c. 2. ACTUARIAL MATHEMATICS, STATISTICS. Drs, Amsterdam, 46. Teacher, various schs, Netherlands, 46-52; actuarial asst, Empire Life Ins. Co, Can, 52-61; asst. prof. ACTUARIAL MATH, MANITOBA, 61-64, ASSOC. PROF, 64- Assoc. Soc. Actuaries; fel. Can. Inst. Actuaries. Address: Dept. of Actuarial Mathematics, University of Manitoba, Winnipeg 19, Man, Can.

BOOMER, DR. DONALD S(TUART), b. Flint, Mich, July 17, 20. PSYCHOLOGY. Ph.D.(clin. psychol), California, 55. RES. PSYCHOLOGIST, NAT. INST. MENT. HEALTH, 54- Hon. lectr, Edinburgh, 66-67. U.S.A.A.F, 40-45. AAAS; Psychol. Asn. Psycholinguistics; psychotherapy. Address: National Institute of Mental Health, Bldg. 10, Room 2N260, Bethesda, Md. 20014.

BOONE, DR. DANIEL R(ICHARD), b. Chicago, Ill, Oct. 30, 27; m. 54; c. 4. SPEECH PATHOLOGY, AUDIOLOGY. B.A, Redlands, 51; M.A, Western Reserve, 54, Ph.D.(speech path), 58. Mem. staff, lang. retraining inst, Vet. Admin. Hosp, Long Beach, Calif, 51-53; chief speech path. & audiol, Highland View Hosp, Cleveland, 56-59; asst. prof. speech path, Western Reserve, 60-63; assoc. prof, Med. Center, Kansas, 63-66; CHIEF SPEECH PATH, SPEECH & HEARING CENTER & ASSOC. PROF, DENVER, 66- Dir. clin. speech, Cleveland Hearing & Speech Center, 60-63; U.S. Off. Ed. res. grant, 67-, consult, 66- U.S.A, 45-47. Speech & Hearing Asn; Coun. Except. Children; Acad. Aphasia. Aphasia; cerebral function; laterality; voice disorders. Publ: A plan for aphasia rehabilitation, Arch. Phys. Med. & Rehab, 67; co-auth, Left-right discrimination abilities in normal children, J. Perceptual-Motor Skills, 67 & Pitch discrimination and tonal memory abilities in adult voice patients, J. Speech & Hearing Res, 67. Address: Speech & Hearing Center, University of Denver, Denver, Colo. 80210.

BOONE, PROF. GLADYS, b. Stoke-on-Trent, Eng, Jan. 31, 95. ECONOMICS. B.A, Birmingham, 16, M.A, 17; Ph.D, Columbia, 41. Asst. prof, Carnegie Inst. Tech, 22-23; exec. secy, Women's Trade Union League, 23-26; asst. ed, 'Encyclop. of Soc. Scis,' 28-29; from asst. prof. to assoc. prof. ECON, SWEET BRIAR COL, 31-41, prof, 41-60, EMER. PROF, 60-; LECTR. & WRITER, 60- Econ. Asn. Labor problems; women's trade union leagues in Great Britain and the United States; labor laws. Address: Dept. of Economics, Sweet Briar College, Sweet Briar, Va. 24595.

BOONE, PROF. JERRY N(EAL), b. Corinth, Miss, Feb. 15, 27; m. 49; c. 4. PSYCHOLOGY, SPEECH PATHOLOGY. B.A, Mississippi, 49; M.A, Florida, 51; Ph.D.(psychol), Vanderbilt, 61. Spec. ed. consult, State Dept. Ed, Tenn, 49-50; sr. therapist, Bill Wilkerson Hearing & Speech Center, 51-52; dir. speech & hearing clin, E.Tenn. State Col, 52-56; counsr, psychol. serv. center, Vanderbilt, 58-59; intern clin. psychol, Vet. Admin. Med. Teaching Group Hosp, Memphis, Tenn, 59-60; psychologist, Memphis Speech & Hearing Center, 60-62; assoc. prof. PSYCHOL, MEMPHIS STATE, 62-65, PROF, 65- Part time assoc. prof, col. med, Tennessee, 65- Consult, hosp. & med. facilities br, U.S. Pub. Health Serv, 67- Psychol. Asn; Asn. Ment. Deficiency. Intellectual effects of brain damage; clinical psychology training. Address: 1531 Carr Ave, Memphis, Tenn. 38104.

BOONE, DR. NELMS B(URNETT), b. Corinth, Miss, Oct. 3, 21; m. 41; c. 3. PSYCHOLOGY. Ph.D.(psychol), Peabody Col, 54. Chief clin. psychologist, West. State Hosp, Bolivar, Tenn, 54-57; asst. prof. psychiat. & pediat, Tennessee, 57-63; PROG. DIR, DIV. MENT. RETARDATION, U.S. PUB. HEALTH SERV, 63- Psychol. Asn; Asn. Ment. Deficiency; Nat. Rehab. Asn. Development of new supportive and sub-professional personnel to perform clinical work in mental retardation facilities; psychological diagnosis in minimal brain dysfunction. Publ: Co-auth, Mental retardation, In: Synopsis of pediatrics, Mosby, 66. Address: U.S. Public Health Service, Region IV, 50 Seventh St. N.E, Atlanta, Ga. 30323.

BOORE, PROF. WILLIAM FILSON, b. Pittsburgh, Pa, Sept. 20, 21; m. 43; c. 1. MANAGEMENT SCIENCE. B.S, Lehigh, 42; M.S, Colo. Sch. Mines, 50; M.B.A, Chicago, 54; D.B.A, Washington (Seattle), 63. Electrochemist, Ill. Watch Case Co, 46-48; asst. prof.mech. eng, Colorado, 48-51; metall, Washington State, 57-58, assoc. prof. bus. admin, 60-64; lectr. indust. mgt, Washington (Seattle), 58-60; PROF. MGT, PORTLAND STATE COL, 64- U.S.A.F, 42-46, 51-57, Lt. Col. Inst. Mgt. Sci; Systs. & Procedures. Asn. Management of research and development. Publ: Co-auth, Interdisciplinary studies in business behavior, South-Western Pub, 62; auth, Contract research for the small manufacturer, Div. Indust. Res, Washington State, 63; co-auth, The computer sampler: management perspectives on the computer, McGraw, (in press). Address: Dept. of Management, Portland State College, Portland, Ore. 97207.

BOOT, PROF, JOHN C. G, b. Semarang, Indonesia, June 10, 36; m. 65; c. 1. ECONOMICS, MANAGEMENT SCIENCE; Dr.(quadratic prog), Netherlands Sch. Econ, 64. Res. asst. econ, Stanford, 59-60; res. assoc. econmet, Netherlands Sch. Econ, 60-64; assoc. prof. MGT. SCI, STATE UNIV. N.Y. BUFFALO, 65, PROF, 65- Vis. assoc. prof, U.S. Army Math. Res. Center, 62. Consult, IBM World Trade Corp, Holland, 63-66; Marine Midland Bank, N.Y, 66- Math. Asn; Econmet. Soc. Mathematical programming; theory of games; operations research; econometrics. Publ: Quadratic programming, Rand McNally, 64; co-auth, Operations research and quantitative economics, McGraw, 65; auth, Mathematical reasoning in economics and management science, Prentice-Hall, 67. Address: Dept. of Management Science, School of Business Administration, State University of New York at Buffalo, Buffalo, N.Y. 14214.

BOOTE, PROF. MAURICE JOHN, b. Birmingham, Eng, Mar. 9, 24; nat. Can; m. 48. ECONOMICS. B.A, Wales, 51; Samuel Bronfman, Can. Tax Found. & Can. Coun. fels. & Ph.D, McGill, 59. Asst. econ, McGill, 51-55; asst. prof, Alberta, 55-57; economist, Atlantic Provs. Econ. Coun, 58-59; asst. prof. ECON, New Brunswick, 58-59; Alberta, 59-61, assoc. prof, 61-64; TRENT, 64-66, PROF. & CHMN. DEPT, 66- Brit. Army, 42-47. Can. Econ. Asn; Am. Econ. Asn. Regional economic development, particularly area redevelopment programs. Publ: Area development policy in the United States, Can. Dept. Indust, 66; Residential construction industry in the Atlantic Provinces; Significance of power development in the Maritime Provinces. Address: Dept. of Economics, Trent University, Peterborough, Ont, Can.

BOOTH, DR. ALAN, b. Dansville, N.Y, Feb. 9, 35; m. 59; c. 2. SOCIOLOGY. B.A, Antioch Col, 58; M.A, California, Los Angeles, 60; Midwest Coun. Soc. Res. Aging fel, Nebraska, 65, U.S. Off. Ed. res. grant, 65-66, Ph.D.(sociol), 66. Asst. to dir, off. continuing ed, Antioch Col, 58-59; supvr. commun. prog, exten. dept, British Columbia, 61-63; res. assoc, off. adult ed. res, NEBRASKA, 63-66, ASST. PROF. SOCIOL. & DIR. BUR. SOCIOL. RES, 66- Nat. Sci. Found. res. grant, 65-67; co-investr, U.S. Pub. Health Serv. res. grant, 67-68. Sociol. Asn. Adult socialization; social participation; mass communications. Publ: Co-auth, Adult education, Center Appl. Res. Ed, Wash, D.C, 63; auth, A demographic consideration of non-participation, Adult Ed, summer 61; co-auth, Participation in adult education and personal influence, Ed. Sociol, summer 67. Address: Dept. of Sociology, 1201 Seaton Hall, University of Nebraska, Lincoln, Nebr. 68508.

BOOTH, PROF. ALFRED W(HALEY), b. Milwaukee, Wis, Oct. 7, 08; m. 37; c. 3. GEOGRAPHY. B.Ed, Wis. State Teachers Col, 29; Ph.M, Wisconsin, 32, Regent fel, 34-35, Ph.D.(geog), 36; Chicago, 33-34. Asst, Chicago, 33-34; Wisconsin, 35-36; instr. GEOG, Illinois, 36-43, asst. prof, 46; assoc. prof, State Col. Wash, 46-47; asst. prof, ILLINOIS, URBANA, 47-51, assoc. prof, 51-53, PROF. & EXEC. SECY. DEPT, 53-, acting head dept, 65-66. U.S.A, 43-45, Res, 45-, Maj. Asn. Am. Geog; fel. Geog. Soc; Regional Sci. Asn; Nat. Coun. Geog. Ed; Soc. Photogram. Transportation and recreation geography; geography of India; conservation of natural resources. Address: Dept. of Geography, University of Illinois, Urbana, Ill. 61801.

BOOTH, DR. DAVID A. B, b. London, Eng, July 8, 30; m. 60; c. 3. POLITICAL SCIENCE. B.Sc.(econ), London Sch. Econ, 52; M.A, Virginia, 53, Ph.D. (polit. sci), 57. Asst. prof. polit. sci. & exec. secy. polit. center, Vanderbilt, 57-60; ASST. PROF. polit. sci, Mich. State, 60-65; SOCIOL, WAYNE STATE, 65- Polit. Sci. Asn. Policy formation in local government; discovery of elites; international organization and function of diplomacy. Publ: Co-auth, Guide to local politics; Community change and power structure, Midwest J. Polit. Sci; Simplifying the discovery of elites, Am. Behav. Scientist. Address: Dept. of Sociology, Wayne State University, Detroit, Mich. 48202.

BOOTH, PROF. DONALD R(ICHARD), b. Marble, Minn, June 1, 31; m. 53; c. 1. ECONOMICS. B.A, Whittier Col, 55; Ford Found. grant, Claremont Col, 55-56, M.A, 56; California, Los Angeles, 56-59; Danforth Found. fel,

62-63. Asst. ECON, California, Los Angeles, 56-59; instr, CHAPMAN COL, 59-61, ASST. PROF, 61- U.S.M.C, 50-53, Sgt. Econ. Asn. International economics. Publ: U.S. investment in Latin America, West. Econ. Asn. Proc. Address: 1302 Merona Place, Anaheim, Calif. 92805.

BOOTH, PROF. E. J. R, b. Maidenhead, Eng, Aug. 9, 21; U.S. citizen; m. 49; c. 2. ECONOMICS. B.Sc, McGill, 51; M.S, Connecticut, 55; Earhart fel, Vanderbilt, 55-57, Ph.D.(econ), 61. Asst. prof. agr. econ, Okla. State, 56-61, assoc. prof, 61-64; ECON, CONNECTICUT, 64-66, PROF, 66- Nat. Sci. Found. & NATO fels, Cambridge, 62-63. Economet. Soc; Agr. Econ. Asn. Rural poverty; income differences over space and time; resource misallocation in advanced economies; aggregate production functions. Publ: Co-auth, Impact of the model in estimating economic behavior relations, J. Farm Econ, 56; auth, Interregional income differences, South. Econ. J, 64; Correlation and regression analysis, In: Land economics research, Univ. Nebraska, 66. Address: Dept. of Economics, University of Connecticut, Storrs, Conn. 06268.

BOOTH, DR. JOHN FRANKLIN, b. Chicago, Ill, Apr. 11, 95; Can. citizen; AGRICULTURAL ECONOMICS, MARKETING. B.S.A, Saskatchewan, 19, LL.D, 48; M.S.A, Cornell, 24, Ph.D, 26. Dir. mkt, Sask. Dept. Agr, Can, 20-22; sr. economist, bur. agr. econ, U.S. Dept. Agr, 26-29; dir. econ. div, Can. Dept. Agr, 29-60, spec. adv. econ, 60-62; RETIRED. Mem, Nat. Prods. Mkt. Bd, Can, 34-36; Agr. Food Bd, 42-45; Prices Support Bd, 44-46; consult, Atlantic Develop. Bd, Can, 66-67. R.A.F, 18. Am. Agr. Econ. Asn. (v.pres, Farm Econ. Asn, 34); Can. Agr. Econ. Soc. (pres, 38-39); fel, Agr. Inst. Can. (pres, 48); Can. Econ. Asn; Int. Asn. Agr. Econ. Agricultural policies; marketing; production economics; foreign agricultural and international trade relation. Publ: Influence of consumption changes in the use of resources and on technical change in agriculture, Proc. Int. Conf. Agr. Economist; World agriculture, In: Encyclopedia Britannica. Address: 704 Island Park Dr, Ottawa 3, Ont, Can.

BOOTH, JOHN MANFORD, b. Elk River, Idaho, Oct. 21, 23; m. 47; c. 1. PSYCHOLOGY. B.S, Idaho, 49, M.S, 52. Personnel engr, BOEING CO, 52-59, ENG. PSYCHOLOGIST, 59- U.S.A.A.F, 42-45, 2nd Lt. Psychol. Asn; Human Factors Soc. Optimization of effectiveness of complex man-machine systems and investigation of methods for defining man's role in them. Address: Aero-Space Division, Bioastronautics Section, Boeing Co, Seattle, Wash. 98155.

BOOTH, PHILIP, b. Virginia, Minn, June 30, 07; m. 31; c. 2. PUBLIC ADMINISTRATION. B.A, Arizona, 30; Chicago, 31-34. Instr. hist. & govt, Peoples Jr. Col, 34-36; econ. analyst, bur. employ. security, Soc. Security Bd, 36-46; chief, div. prog. legis, U.S. Dept. Labor, 52-57; prin. mem, div. soc. security, Int. Labour Off, Switz, 57-59; chief, off. prog. & legis, U.S. Dept. Labor, 60-62; LECTR. SOC. WORK, MICHIGAN, 62-, res. assoc. pub. health, 63-65. Consult, U.S. Dept. Labor, 64-65; soc. security dept, United Automobile Workers Union, Detroit, 64-66. Soc. Pub. Admin; Indust. Rels. Res. Asn; Pub. Health Asn; Coun. Soc. Work Ed. Social insurance; federal and state relations. Publ: Myths and realities in unemployment insurance, Employ. Security Rev; Social security planning in lesser developed countries; California farm workers and disability insurance, Soc. Security Bull, 5/68. Address: 808 Mt. Vernon St, Ann Arbor, Mich. 48103.

BOOTH, DR. S(AMUEL) LEES, b. Utica, N.Y, Aug. 6, 16; m. 46; c. 1. ECONOMICS. A.B, Syracuse, 47, A.M, 48, Ph.D, 50. Prof. econ. & chmn. dept. econ. & bus. admin, Juniata Col, 50-53; econ. analyst, U.S. Dept. State, 52-59; DIR. RES, NAT. CONSUMER FINANCE ASN, 59- U.S.N, 43-46. Econ. Asn; Statist. Asn; Mgt. Asn. Economics of the Far East; national aggregates and accounting; foreign trade and finance; consumer credit and finance company operations. Publ: Application of national aggregates to a state level; co-auth, The consumer finance industry, Prentice-Hall, 62; auth, Finance facts yearbook, Nat. Consumer Finance Asn, 67. Address: 2205 N. Pollard St, Arlington, Va. 20036.

BOOTHE, PROF. VIVA B(ELLE), Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

BOPP, DR. KARL R(ICHARD), b. Kirkwood, Mo, Feb. 2, 06; m. 31; c. 2. ECONOMICS. A.B. & B.S, Missouri, 28, A.M, 29, Ph.D, 31; Wisconsin, 30; hon. LL.D, Temple, 60, Missouri, 61, Cedar Crest Col, 64. Asst. prof. econ, Missouri, 31-37; assoc. prof, 37-41; dir. res, FED. RESERVE BANK PHILA, 41-47, v.pres, 47-58, PRES, 58- Soc. Sci. Res, Coun. fel, 32-33; Guggenheim fel, 39-40; lectr, Pennsylvania, 46-58; Princeton, 47. Trustee, Temple. Acad. Polit. & Soc. Sci; Econ. Asn; Statist. Asn; Philos. Soc. Comparative central banking in England, France, Germany and the United States; the government and the bank of France; three decades of Federal Reserve policy. Publ: Reichsbank operations: 1876-1914. Address: Federal Reserve Bank of Philadelphia, 925 Chestnut St, Philadelphia, Pa. 19101.

BORAAS, PROF. HAROLD ORLANDO, b. Red Wing, Minn, Oct. 31, 00; m. 29; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, St. Olaf Col, 22; M.A, Columbia, 25; Ph.D, Cornell, 36. Teacher, Wells High Sch, Minn, 23-24; asst. prof. ed. psychol, Rochester, 25-27; assoc. prof, Alfred, 28-44; psychol, St. Olaf Col, 44-51; prof. ed. psychol. & dean students, Peru State Col, 51-66; PROF, PSYCHOL, WIS. STATE, RIVER FALLS, 66- Psychol. Asn. Guidance; motivation; learning process; scientific method. Publ: Experimental study of the relative merits of certain written letter forms with respect to legibility, with speed and stability as related factors & Comparative study of the brief, the precis, and the essay with respect to speed of reading and ease of learning, J. Exp. Ed; Function of integration, N.Y. State Ed. Address: Dept. of Psychology, Wisconsin State University, River Falls, Wis. 54022.

BORAH, DR. LEE A, JR, b. Tulsa, Okla, Feb. 13, 32. PSYCHOLOGY. B.A, Minnesota, 54, Ph.D.(psychol), 61; M.S, Washington (Seattle), 56. Instr. PSYCHOL, Farleigh Dickinson, 61-62; asst. prof, WAGNER COL, 62-65, ASSOC. PROF, 65- Psychol. Asn. Social and counseling psychology; speech pathology. Publ: The effect of threat in interpersonal bargaining, J. Abnorm. & Soc. Psychol, 63. Address: Dept. of Psychology, Wagner College, Grymes Hill, Staten Island, N.Y. 10301.

BORAK, PROF. ARTHUR, Pub. Finance, see 10th ed, Soc. & Behav. Vols.

BORCHARDT, HARVARD G(EORGE), b. Watertown, Wis, Apr. 23, 17; m. 42; c. 5. ECONOMICS. B.A, Wisconsin, 40, M.A, 41. Field examr, Nat. Labor Rel. Bd, Denver, Colo, 46-51, chief labor mgt. rel. exam, 6th regional off, Pa, 53-60; dir, case anal. div, Minneapolis region, Wage Stabilization Bd, 51-53; area dir, bur. labor mgt. reports, U.S. DEPT. LABOR, Pittsburgh, 60-63, dir. div. reports, Wash, D.C, 63-64, ASST. DIR, OFF. LABOR MGT. WELFARE PENSION REPORTS, 64- U.S.N.R, 42-46, Capt. Econ. Asn; Indust. Rel. Res. Asn. Labor relations; social security. Address: 4129 Woodbine St, Chevy Chase, Md. 20015.

BORCHERT, PROF. JOHN R(OBERT), b. Chicago, Ill, Oct. 24, 18. GEOGRAPHY. A.B, DePauw, 41; Illinois, 41; Mass. Inst. Tech, 42; A.M, Wisconsin, 46, Ph.D, 49. Instr. GEOG, Wisconsin, 47-49; asst. prof, MINNESOTA, 49-51, assoc. prof, 51-56, PROF, 56-, chmn. dept, 56-61, urban res. dir, upper midwest econ. study, 61-67. Chmn. earth sci. div, Nat. Acad. Sci-Nat. Res. Coun, 67-69. Asn. Am. Geog.(v.pres, 67-68); Geog. Soc; Inst. Planners. Geography of resource development and land planning. Address: Dept. of Geography, University of Minnesota, Minneapolis, Minn. 55455.

BORDEN, DR. GEORGE A(SA), b. Elmira, N.Y, June 16, 32; m. 53; c. 3. COMMUNICATIONS. B.A, Denver, 58, M.A, 59 & 62; Ph.D.(speech behav, math, sociol, rhet), Cornell, 64. Mathematician, Marathon Oil Res. Center, 59-62; ASST. PROF. HUMAN COMMUN. THEORY, PA. STATE, 64- Consult, info. retrieval, U.S. Off. Ed, 67- U.S.A, 52-54. Psychol. Asn; Speech Asn; Document. Inst; Asn. Comput. Mach; Soc. Study Commun. Human-communication theory; information retrieval; computational linguistics; content analysis; public speaking proficiency. Publ: Mathematical transformations & communication theory, J. Commun, 6/63; Cognitive dissonance: a theory of persuasion, Pa. Speech Ann, 9/65; Theoretical constructs: a by-product of information retrieval, Proc. Am. Document. Inst, 10/67. Address: 316 Sparks Bldg, Pennsylvania State University, University Park, Pa. 16802.

BORDEN, DR. NEIL H, JR, b. Boston, Mass, May 29, 31; m. 53; c. 3. BUSINESS MANAGEMENT. A.B, Bates Col, 53; M.B.A, Harvard, 57, D.B.A. (mkt), 65. Res. assoc. BUS. ADMIN, Harvard, 57-59 & 61-63; asst. prof, Northeastern, 59-61; ASSOC. PROF, GRAD SCH. BUS, VIRGINIA, 63- U.S.A, 53-55. Mkt. Asn. Sales and product management. Publ: Acceptance of new food products by supermarkets, Div. Res, Harvard Bus. Sch, 68. Address: Graduate School of Business Administration, University of Virginia, P.O. Box 3607, Charlottesville, Va. 22903.

BORDEN, PROF. NEIL H(OPPER), b. Boulder, Colo, Dec. 7, 95. MARKETING. A.B, Colorado, 19; M.B.A, Harvard, 22. Prin, high sch, Colo, 20; asst. dean, GRAD. SCH. BUS. ADMIN, HARVARD, 22-25, 27-30, asst. prof, 25-28, assoc. prof, 28-38, prof. advert, 38-59, mkt, 59-62, EMER. PROF. ADVERT, 62- Charles Coolidge Parlin Mem. lectr, 49; summer lectr, Melbourne, Australia, 58. Consult, Indian Inst. Mgt, Ahmedabad, 63-66; consult. & lectr, Singapore Inst. Mgt, 67. Kappa Tau Alpha res. award, 45-46; Converse award, 51; distinguished serv. medal, Syracuse, 49; Nichols award, Alpha Delta Sigma, 59. Mkt. Asn.(award, 46, v.pres, 49, pres, 53-54); Econ. Asn. Problems and economic effects of advertising. Publ: Advertising, text and cases; Economic effects of advertising; National advertising in newspapers. Address: 58 Winford Way, Winchester, Mass. 01890.

BORDIN, DR. EDWARD S, b. Philadelphia, Pa, Nov. 7, 13; m. 41; c. 2. PSYCHOLOGY. B.S.C, Temple, 35, M.S, 37; Ph.D.(psychol), Ohio State, 42. Asst. to coordinator student personnel serv, Minnesota, 39-40, asst. to dir. univ. testing bur, 40, counsr, 40-42; personnel technician, Adj. Gen. Off, U.S. War Dept, 42-44; counsr. & asst. prof. psychol, Minnesota, 45, acting dir. univ. couns. bur, 45-46; dir. student couns. center & assoc. prof. psychol, State Col. Wash, 46-48; assoc. prof. PSYCHOL, MICHIGAN, 48-53, PROF, 55-, CHIEF COUNS. DIV, 48- Fel. Psychol. Asn; Psychomet. Soc. Process of counseling and psychotherapy; development of vocational interests and choices; personality development after childhood. Publ: Psychological counseling; Ambiguity as a therapeutic variable; co-auth, Measurement problems in process research and psychotherapy, J. Consult. Psychol. Address: Dept. of Psychology, University of Michigan, 1007 E. Huron, Ann Arbor, Mich. 48104.

BORDNE, PROF. ERICH F(RED), b. Mannheim, Germany, Apr. 6, 23; nat; m. 50. GEOGRAPHY. B.A, Cincinnati, 48; M.A, Syracuse, 51, Ph.D.(geog), 54. Instr. GEOG, Yale, 54-56, asst. prof, 56-58; assoc. prof, Pittsburgh, 58-66; PROF. KENT STATE, 66- U.S.A, 42-46. Asn. Am. Geog. Regional water utilization; climatology; regional geography of Europe. Publ: Water resources of a Western New York region, Syracuse Univ, 60; Some hydrologic aspects of the flood of August, 1955 in a Connecticut Valley, Geog. Rev. Address: 431 Earl Ave, Kent, Ohio 44240.

BORDUA, PROF. DAVID J(OSEPH), b. Springfield, Mass, Sept. 2, 27; m. 51; c. 1. SOCIOLOGY. B.A, Connecticut, 50, M.A, 52; Ph.D, Harvard, 57. Instr. SOCIOL, Michigan, 55-58, asst. prof, 58-64; assoc. prof, ILLINOIS, URBANA, 64-67, PROF, 67- Fel, Center Adv. Study Behav. Sci, 62-63. U.S.A, 46-47. Sociol. Asn; Soc. Study Social Probs; Law & Society Asn. Sociology of law; deviant behavior. Publ: Ed, The police: six sociological essays, Wiley, 67; auth, Juvenile delinquency and anomie: an attempt at replication, Soc. Probs; Authoritarianism and intolerance of non-conformist, Sociometry. Address: Dept. of Sociology, University of Illinois, Urbana, Ill. 61803.

BOREHAM, DR. GORDON FRANCIS, b. Ottawa, Ont, May 29, 28; m. 54; c. 3. ECONOMICS. B.Com, Ottawa (Ont), 52, M.A, 55; Can. Soc. Sci. Res. Coun. fel, 57; Can. Coun. fel, 58; Ph.D.(econ), Columbia, 62. Mgt. trainee, commercial dept, Bell Tel. Co. Can, 52-55; lectr. ECON, OTTAWA (ONT), 55-57, asst. prof, 58-62, ASSOC. PROF, 62- Can. Coun. sr. fel, 66-67; Italian Ministry For. Affairs res. fel, 67; lectr. to W.Germany, Nationalist China, India, Pakistan, Greece, Egypt, Italy, Spain & Gt. Brit, 65-67. Can. Army Militia, 49-62; Can. Forces Decoration, 61. Money and banking and the relationship of banks to economic development. Publ: The basic preconditions of economic development, Nat. Bank Egypt, 11/67; Changing pat-

terns of bank growth in Western Germany, Can. Banker, winter 67; The 1967 amendments to Canada's banking acts, Indian Econ. J, 10-12/67. Address: Dept. of Economics, University of Ottawa, Ottawa, Ont, Can.

BORELLI, DR. GEORGE LOUIS, b. New York, N.Y, June 13, 26; m. 53; c. 4. CLINICAL PSYCHOLOGY, COUNSELING. B.A, Kent State, 50, M.A, 51; Ph.D, Ohio State, 60. Intern psychol, Cleveland Psychiat. Inst. & Hosp, 51-52; staff psychologist, Sunny Acres Tuberc. Hosp, Cleveland, 52-54; Ohio State Tuberc. Hosp, Columbus, 55-56; instr. abnorm. psychol, Capital Univ, 56; CHIEF PSYCHOLOGIST, COLUMBUS STATE HOSP, 56- Instr. & lectr, dept. nursing & assoc. prof. & consult, dept. psychiat, Ohio State, 66- Consult, Bur. Voc. Rehab, Columbus, Ohio, 60-; assoc, Marriage Counseling, Inc. & pres. & consult, Midwest. Psychol. Servs, 61-; Columbus Psychol. Serv, Ohio, 62-; consult, Children's Ment. Health Center, Columbus & Columbus State Hosp, 64- U.S.N, 44-46. Psychol. Asn. Individual and group psychotherapy; role playing; psychological and vocational tests; marriage counseling. Publ: Study of the meanings of Rorschach cards through use of the semantic differential technique. Address: 130 S.Davis Ave, Columbus, Ohio 43222.

BOREN, DR. ROBERT R(EED), Speech Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BORENSTEIN, DR. AUDREY F, b. Chicago, Ill, Oct. 7, 30; m. 53; c. 2. SOCIOLOGY, ANTHROPOLOGY. B.A, Illinois, 53, M.A, 54; Ph.D.(sociol), La. State, 58. ASST. PROF. sociol, La. State, 58-60; ANTHROP, CORNELL COL, 65- AAAS. Professional ethics; relationship of the social sciences to the humanities; creative writing. Publ: Transl. Custom: an essay on social codes, Free Press Glencoe, 61; Parting gift, Univ. Rev, 66; Natural history of a friendship, Nimrod, 66. Address: Dept. of Sociology, Cornell College, Mt. Vernon, Iowa 52314.

BORENSTEIN, DR. I(SRAEL), b. Warsaw, Poland, Feb. 15, 19; m. 52. ECONOMICS. Dr.(pub. econ), Munich, 49. ANALYST, Nat. Bur. Econ. Res, 50-57; UN, 57- Econ. Asn. National income; capital formation; economic growth. Publ: Capital and output trends in mining industries, 1870-1948; co-auth, Capital in manufacturing and mining, its formation and financing. Address: 12 Ave.des Amazones, 1224 Geneva, Switz.

BORENZ, DR. HAROLD FRANK, b.Neenah, Wis, Aug. 26, 19; m. 44; c. 6. PSYCHIATRY. B.A, Lawrence Col, 42; M.D, Michigan, 45. Staff physician, Mendota State Hosp, Madison, Wis, 48-50; fel. child psychiat, Cincinnati Gen. Hosp, Ohio, 52-54; instr. psychiat, SCH. MED, WISCONSIN, 54-56, asst. prof. & dir. CHILD PSYCHIAT, 56-61, ASSOC. PROF, 61- Staff physician, Wis. Diag. Center, Madison, 54-56. U.S.N, 46-48, Lt.(jg). Fel. Psychiat. Asn; fel. Orthopsychiat. Asn. Child psychiatry, especially childhood schizophrenia and mental retardation. Publ: Co-auth, Intellectual and emotional factors as related to school performance, J. Except. Children, 4/60; auth, Children's personality reaction to chronic illness, Wis. Med. J, 11/62; co-auth, Mentally retarded children, a program for comprehensive diagnosis and treatment, Clin. Pediat, 12/64. Address: University of Wisconsin School of Medicine, 1300 University Ave, Madison, Wis. 53706.

BORG, DR. WALTER R(AYMOND), b. Chicago, Ill, June 24, 21; m. 48; c. 4. PSYCHOLOGY. A.B, San Diego State Col, 43; M.A. & Ph.D.(ed. psychol), California, 48. Asst. prof. ed. psychol, Texas, 48-51; ed. adv, U.S. Dept. Air Force, 51-53; dir. training anal. & develop, 53-55, chief ed. res. br, personnel & training res. center, 55-57; prof. ed. & chmn. bur. ed. res, Utah State, 57-66; PROG. DIR, FAR WEST LAB. ED. RES. & DEVELOP, 66- U.S.N, 43-46. Psychol. Asn; Ed. Res. Asn; Coun. Measurement in Ed; Nat. Soc. Study Ed. Small group interaction; situational testing; ability grouping; automated instruction; psychological measurement; contingency management; teacher behavior. Publ: Educational research: an introduction, McKay, 63; Ability grouping in the public schools, Dembar, 66; The principal's perception of team teaching, Psychol. in the Schs, 66. Address: 342 Mangrove Way, Walnut Creek, Calif. 94598.

BORG, WALTER T(HEODORE), b. Nebr, May 28, 04; m. 30; c. 3. ECONOMICS. B.Sc, Nebraska, 28; M.A, Colorado, 32. Agr. economist, bur. agr. econ, U.S. DEPT. AGR, 41-43, GRAIN MKT. REPORTER, GRAIN DIV, CONSUMER MKT. SERV, 43- Agr. Hist. Soc. Grain market news; history of wheat in World War I and II; economic adjustment of grain prices following wars and depressions. Publ: Food administration experience with hogs, 1917-19, J. Farm Econ. Address: Grain Division, Consumer Marketing Service, Federal Center Building, Hyattsville, Md. 20781.

BORGATTA, DR. EDGAR F, b. Milan, Italy, Sept. 1, 24; nat; m. 46; c. 3. SOCIAL PSYCHOLOGY. Ph.D, N.Y. Univ, 52. Instr, N.Y. Univ, 49-51; lectr. & res. assoc, Harvard, 51-54; soc. psychologist, Russell Sage Found, 54-59; PROF. SOCIOL, Cornell, 59-61; WISCONSIN, 61- Lectr, N.Y. Univ, 54-56, prof, 56-57, adj. prof, 57-59. Psychol. Asn; Sociol. Asn; Statist. Asn; Psychomet. Soc. Publ: Co-ed, Small groups, studies in social interaction & Sociological theory, present day sociology; Sidesteps toward a nonspecial theory, Psychol. Rev. Address: Dept. of Sociology & Anthropology, University of Wisconsin, Madison, Wis. 53706.

BORGEN, KENNETH P(ALMER), Pub. Admin, Govt, see 10th ed, Soc. & Behav. Vols.

BORGESON, PROF. GERTRUDE M, Nutrit, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BORGSTROM, PROF. GEORG A(RNE), Food Sci, see 11th ed, Phys. & Biol. Vols.

BORHEGYI, DR. STEPHAN F(RANCIS), b. Budapest, Hungary, Oct. 17, 21; nat; m. 49; c. 4. ANTHROPOLOGY. Ph.D.(anthrop), Pázmány Peter Univ, Budapest, 46. Instr. classical archaeol, Pázmány Peter Univ, Budapest, 46-47, asst. prof, 47-48; prof. anthrop, San Carlos, Guatemala, 49-51, 53; asst. prof. & dir. univ. mus, Oklahoma, 54-59; DIR, MILWAUKEE PUB. MUS, 59- Asst. curator, Hungarian Nat. Mus, 47-48; Wenner-Gren fel, 48-50; Bollingen res. grant, 50-51, 52-54; fel, Yale, 51-52; assoc. prof, Marquette, 59-; lectr; Wisconsin, Milwaukee, 59- Fel, Maya Cultural Seminar, Mex, 63; v. pres, Midwest Mus. Conf, 64; U.S. secy, Int. Coun. Mus, 67-, U.S. rep, int. cmt. ethnol. mus, 66- Royal Hungarian Army, 41-44, 1st Lt. Fel. Anthrop. Asn; Soc. Archaeol; Ethnol. Soc; fel. Archaeol. Inst; Asn. Mus; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; fel. Soc. Geog. & Hist, Guatemala. Middle American archaeology, ethnology and social anthropology; Hispanic culture; museology; underwater archaeology. Publ: Bibliography of museums and museum work: 1900-1960, 60, suppl, 61, Milwaukee Pub. Mus; Archaeological synthesis of the Guatemalan Highlands, In: Handbook of Middle American Indians, Univ. Texas, 65; Development of folk and complex cultures in the southern Maya area, In: Ancient Mesoamerica, Peek, 66. Address: Milwaukee Public Museum, 800 W. Wells St, Milwaukee, Wis. 53233.

BORHEK, DR. JAMES THEODORE, b. Indianapolis, Ind, Oct. 10, 30. SOCIOLOGY. A.B, Illinois, 53; M.A, California, Berkeley, 60; Ph.D.(sociol), Oregon, 63. Asst. prof. SOCIOL, Alberta, 62-66; ASSOC. PROF. ARIZONA, 66- Sociol. Asn. Sociology of knowledge; collective behavior; social organization. Publ: A theory of incongruent experience, Pac. Sociol. Rev, 65; Role orientations and organizational stability, Human Orgn, 65. Address: Dept. of Sociology, University of Arizona, Tucson, Ariz. 85721.

BORING, PROF. EDWIN G(ARRIGUES), b. Philadelphia, Pa, Oct. 23, 86; m. 14; c. 4. PSYCHOLOGY. M.E, Cornell, 08, A.M, 12, Ph.D.(exp. psychol), 14; hon. A.M, Harvard, 42; Sc.D, Pennsylvania, 46, Clark, 56. Asst. psychol, Cornell, 11-13, instr, 13-18; prof. exp. psychol, Clark, 19-22, dir. lab, 21-22; assoc. prof. PSYCHOL, HARVARD, 22-28, prof, 28-56, Edgar Pierce prof. & Lowell TV lectr, 56-57, dir. lab, 24-49, EDGAR PIERCE EMER. PROF, 57- Phi Beta Kappa vis. scholar, 58-59. Ed, Psychol. for the Fighting Man, Nat. Res. Coun, 42-43; Contemporary Psychol, 56-61. Hon. pres, Int. Cong. Psychol, 63; gold medal, Am. Psychol. Found, 59. Sanit.C, U.S.A, 18-19, Capt. Nat. Acad. Sci; AAAS.(v.pres, 30); fel. Psychol. Asn.(secy, 20-22, pres, 28); fel. Soc. Exp. Psychol; Philos. Soc; Am. Acad. Arts & Sci; for. assoc, Brit. Psychol. Asn; French Soc. Psychol; Spanish Soc. Psychol. History of psychology; psychology of history; theoretical psychology; psychology of sensation and perception. Publ: History of experimental psychology; Sensation and perception in the history of experimental psychology; Psychologist at large. Address: William James Hall, Harvard University, Cambridge, Mass. 02138. Deceased 68.

BORING, DR. FRANK H(ENRY), b. Ithaca, N.Y, Aug. 10, 17; m. 41; c. 3. CLINICAL PSYCHOLOGY. A.B, Cornell, 39; M.A, Princeton, 41, Ph.D. (psychol), 49; Harvard, 50-53. Instr. psychol, Princeton, 46-50; clin. psychol. trainee, VET. ADMIN, Boston, Mass, 50-53; clin. psychologist, Newark Ment. Hyg. Clin, Short Hills, N.J. 53-58, CHIEF CLIN. PSYCHOLOGIST, 59-68, BOSTON OUTPATIENT CLIN, 68- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F, 41-46, Maj. Psychol. Asn. Psychotherapy; methodology and experimental design; community mental health. Address: 21 Bowdoin St, Cambridge, Mass. 02138

BORKIN, JOSEPH, Econ, see 10th ed, Soc. & Behav. Vols.

BORKO, DR. HAROLD, b. New York, N.Y, Feb. 4, 22; m. 47; c. 2. PSYCHOLOGY. A.B, California, Los Angeles, 48; M.A, Southern California, 49, Ph.D. (psychol), 52. Psychol. intern, Letterman U.S. Army Hosp, 51-52, clin. psychologist, Army Child Guid. Clin, 52-56; HUMAN FACTORS SCIENTIST, SYST. DEVELOP. CORP, 56- Instr, California exten, Japan, 55-56; lectr, Southern California, 56-64; prof, California, Los Angeles, 66- Mem-at-large, U.S. Nat. Cmt, Nat. Acad. Sci. to Int. Fed. Document, 67-70. U.S.A, 42-46, 51-56, Capt. Psychol. Asn; Document. Inst.(pres, 66); Asn. Comput. Mach. Computer applications to behavioral science research; language data processing on digital computers; information storage and retrieval; information systems analysis and design. Publ: Ed, Computer applications in the behavioral sciences; Automated language processing, ed, 67 & auth, Design of information systems and services, In: Annual review of information science and technology, Vol. 2, 67, Wiley. Address: 11507 National Blvd, Los Angeles, Calif. 90064.

BORKOWSKI, DR. JOHN GREGG, b. St. Joseph, Mo, Oct. 2, 38; m. 61; c. 2. PSYCHOLOGY. A.B, St. Benedict's Col.(Kans), 60; M.A, Ohio, 62; Ph.D. (psychol), Iowa, 65. Res. assoc. neuropsychol, Iowa, 64-65; ASST. PROF. PSYCHOL, Oberlin Col, 65-67; NOTRE DAME, 67- Psychol. Asn. Verbal learning, transfer and retention. Publ: Interference effects in short-term memory as a function of level of intelligence, Am. J. Ment. Deficiency, 65; Distributed practice in short-term memory, J. Verbal Learning & Verbal Behavior, 66; Word fluency and brain-damage, Neuropsychologia, 67. Address: Dept. of Psychology, University of Notre Dame, Notre Dame, Ind. 46556.

BORN, DR. DAVID G(ILBERT), b. Kalamazoo, Mich, Dec. 23, 36; m. 60; c. 1. EXPERIMENTAL PSYCHOLOGY. B.S. & B.B.A. Western Michigan, 58, B.A. & M.A, 59; Ph.D.(psychol), Ohio State, 63. ASST. PROF. PSYCHOL, UTAH, 63- Nat. Insts. Health res. grant, 65-67. Consult, Vet. Admin, 65- AAAS; Psychol. Asn. Experimental analysis of behavior; behavior theory; behavior modification. Publ: Co-auth, Response strength to a compound conditioned stimulus and its elements as a function of the element interstimulus interval, J. Comp. Physiol. & Psychol, 63; Proactive effects in immediate memory, J. Verbal Learning & Verbal Behavior, 64; auth, Resistance of a free operant to extinction and suppression with punishment as a function of amount of training, Psychonomic Sci, 67. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

BORNEMANN, PROF. ALFRED, b. Queens, N.Y, Nov. 30, 08; m. 38; c. 1. ECONOMICS. B.A, N.Y. Univ, 33, M.A, 37, fel, 40-41, Ph.D, 41. Instr. econ, Rutgers, 41-44; vis. lectr. econ, N.Y. Univ, 44-45; asst. prof. econ. & finance, Boston, 45-46; econ, Long Island, 46-48; assoc. prof, Muhlenberg Col, 48-50; finance, Fla. State, 50-51; PROF. ECON. & BUS, Norwich, 51-58; St. Francis Col.(N.Y), 58-60; Long Island, 60-66; CITY UNIV. NEW YORK, 67- Consult, 51- Econ. Asn; Finance Asn; Am. Acct. Asn; Asn. Univ. Prof. Economics; finance; business. Publ: Fundamentals of industrial management, Bruce, 63; Recent developments in lease financing, Land Econ; Development

of economics and administration in the school of business, J. Bus. Address: 151 Engle St, Englewood, N.J. 07631.

BORNET, PROF. V(AUGHN) D(AVIS), Hist, Soc. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BORNHOFEN, DR. JOHN OSCAR, b. Des Plaines, Ill, Mar. 20, 34; m. 59; c. 2. ECONOMICS. B.S, Illinois, Urbana, 61, M.S, 63, Earhart, Nat. Sci. Found. & univ. fels. & Ph.D.(econ), 67. Res. economist, domestic res. dept, Fed. Reserve Bank New York, 65-67; ASST. PROF. ECON, ILLINOIS STATE, 67- U.S.N, 56-58. Econ. Asn; Finance Asn. Monetary theory and policy; macroeconomics; financial markets. Address: 1303 Belt Ave, Normal, Ill. 61761.

BORNING, PROF. BERNARD C(ARL), b. Echo, Minn, June 19, 13; m. 49; c. 2. POLITICAL SCIENCE. Ph.D.(polit. sci), Minnesota, 51. From instr. to PROF. POLIT. SCI, IDAHO, 49- Fulbright lectr, Korea, 63-64. U.S.A, 42-46, Capt. Polit. Sci. Asn. Political theory; American government; comparative government. Publ: Political and social thought of Charles A. Beard; Artillery on offshore islands, Field Artillery J; Bolivia and tin, Iron Age. Address: Dept. of Social Sciences, University of Idaho, Moscow, Idaho 83843.

BORNSTEIN, PROF. HARRY, b. New York, N.Y, May 1, 26; m. 57; c. 1. PSYCHOLOGY. A.B, Rutgers, 49; A.M, Fordham, 51; Ph.D.(psychol), American Univ, 54. Res. assoc, personnel res. br, Adj. Gen. Off, U.S. Dept. Army, 51-54, proj. dir, 55-57, task leader, 57-59; human factors consult, Gen. Elec. Co, 59-61; RES. PROF. & DIR. OFF. INSTNL. RES, GALLAUDET COL, 61- Lectr, American Univ, 55-57, prof. lectr, 57-59. Expert consult, U.S. Army Behav. Sci. Res. Lab, 66- U.S.A, 44-46. AAAS; Psychol. Asn; Psychomet. Soc. Psychometrics; programed instruction; communication. Publ: Attitude inconsistency and scaling methodology; Hypothesis of the observations required for the evaluation of performance; Paradigm for a retrieval effectiveness experiment. Address: 5825 Folkstone Rd, Bethesda, Md. 20034.

BORNSTEIN, PROF. MORRIS, b. Detroit, Mich, Sept. 4, 27; m. 62. ECONOMICS. A.B, Michigan, 47, A.M, 48, Soc. Sci. Res. Coun. fel, 49-50, Ph.D. (econ), 52. Economist, U.S. Govt, 51-52, 55-58; asst. prof. ECON, MICHIGAN, 58-62, assoc. prof, 62-64, PROF, 64-, DIR. CENTER RUSSIAN & E. EUROPEAN STUDIES, 66- Soc. Sci. Res. Coun. travel fel, 61; Ford Found. faculty res. fel, Russian Res. Center, Harvard, 62-63. Consult, joint econ. cmt, U.S. Cong, 59; Res. Prog. on Econ. Adjust. to Disarmament, 61; Bendix Corp, 62-66. Mem. adv. screening cmt, Fulbright & Smith-Mundt Progs. & conf. bd, Assoc. Res. Couns, 58-61. U.S.A, 53-55. Econ. Asn; Asn. Adv. Slavic Studies. Soviet economy; comparative economic systems; international economics. Publ: Co-auth, Soviet economy, 62, rev. ed, 66 & auth, Comparative economic systems, 65, Irwin; Soviet price theory and policy, Joint Econ. Cmt, U.S. Congress, 66. Address: Dept. of Economics, University of Michigan, Ann Arbor, Mich. 48104.

BOROCK, DR. DONALD M(ARK), b. Cincinnati, Ohio, June 19, 38; m. 65. POLITICAL SCIENCE. B.A, Cincinnati, 61, M.A, 62, Taft fel, 63-67, Ph.D. (polit. sci), 67. Lectr. POLIT. SCI, eve. col, Cincinnati, 65-67; ASST. PROF, LAFAYETTE COL, 67- Nat. Found. Arts & Humanities teaching residency award, 67-68. Polit. Sci. Asn. Cross-national analysis of various aspects of domestic conflict behavior using factor analysis as a methodological tool; design and analysis of polls. Address: 43 McCartney St, Easton, Pa. 18042.

BOROMÉ, DR. JOSEPH A(LFRED), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BOROW, PROF. HENRY, b. Philadelphia, Pa, May 31, 17; m. 43; c. 2. OCCUPATIONAL PSYCHOLOGY, COUNSELING. B.A, Pa. State, 39, M.S, 42, Ph.D.(psychol), 45. Personnel res. technician, exten. div, Pa. State, 42-44, instr. psychol, univ, 44-46; assoc. prof. PSYCHOL, GEN. COL, MINNESOTA, MINNEAPOLIS, 46-55, PROF, 55- Vis. expert, dept. civilian info. & ed, U.S. Dept. Army, Japan, 51-52; vis. lectr, Okla. State, 59; vis. res. assoc, Horace Mann-Lincoln Inst. Sch. Exp, Columbia, 59-60. Consult, Am. Asn. Nurse Anesthetists, 50-; Vet. Admin. Hosp, Minneapolis, 56-; Vet. Admin, 59- Psychol. Asn; Psychomet. Soc; Personnel & Guid. Asn. Nonintellectual factors in scholastic performance; test construction, validation and standardization; counseling theory; occupational theory; teaching machines and programed learning. Publ: College inventory of academic adjustment; Logic of counseling research, J. Counseling Psychol; Modern perspectives in personnel research. Address: General College, University of Minnesota, Minneapolis, Minn. 55455.

BORRIELLO, DR. J(OHN) F(RANCIS), Psychol, Lang. Path, see 10th ed, Soc. & Behav. Vols.

BORTFELD, PROF. CHARLES FREDERICK, Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased.

BORTHWICK, DR. BRUCE MAYNARD, b. Port Jefferson, N.Y, May 2, 38; m. 63; c. 1. POLITICAL SCIENCE. B.A, Syracuse, 59; fel, Michigan, 59-60, M.A, 60, Dept. Health, Ed. & Welfare fel, 60-64, Ph.D.(polit. sci), 65. ASST. PROF. POLIT. SCI, ALBION COL, 65- Relm Found. summer res. grant, 67; Great Lakes Cols. Asn. Humanities grant, 68-69. Polit. Sci. Asn; Mid. East Studies Asn. N.Am. Comparative politics; Middle East area. Address: 601 Burr Oak St, Albion, Mich. 49224.

BORTNER, DR. MORTON, b. Philadelphia, Pa, June 11, 25; m. 52; c. 2. PSYCHOLOGY. A.B, Pennsylvania, 47; M.A, Columbia, 50, Ph.D.(psychol), 56. Psychologist, Bird S. Coler Hosp, 53-55; Pleasantville Cottage Sch, 55-56; chief psychologist, dept. phys. med. & rehab, N.Y. Med. Col, 56-65; ASSOC. PROF. SPEC. ED. & KENNEDY FOUND. SCHOLAR, YESHIVA, 65- Lectr, City Col. New York, 56-61; adj. assoc. prof, grad. sch. ed. & consult, Albert Einstein Col. Med, 61-65. Psychol. Asn; Asn. Ment. Deficiency. Psychological aspects of neurological impairment. Publ: Ed, Evaluation and education of children with brain damage, C.C. Thomas, 67; co-auth, Perceptual and perceptual-motor dissociation in cerebral palsied children & Perceptual and perceptual-motor dissociation in brain damaged patients, J. Nerv. & Ment. Diseases. Address: Graduate School of Humanities & Social Sciences, Yeshiva University, 55 Fifth Ave, New York, N.Y. 10003.

BORTNER, DR. RAYMAN W(INFIELD), b. Baltimore, Md, Jan. 12, 27; m. 56; c. 2. PSYCHOLOGY. A.B, Boston, 48; Ph.D, Western Reserve, 53. Psychologist, Vet. Admin. Hosp, Augusta, Ga, 52-55, asst. chief psychologist, 55-57, chief psychologist, Fayetteville, N.C, 57-59, res. psychologist, res. unit. aging, Vet. Admin. Center, Va, 59-68; ASSOC. PROF. COL. HUMAN DEVELOP, PA. STATE, 68- Nat. Inst. Ment. Health spec. fel, cmt. human develop, Chicago, 67-68. Psychol. Asn; Geront. Soc; Soc. Epidemiol. Res; N.Y. Acad. Sci. Personality theory in aging; psychological factors in coronary proneness. Publ: Personality and social psychology in the study of aging, Gerontologist, 67; Measurement of informal selection processes, Perceptual & Motor Skills, 67; co-auth, The measurement of pattern A behavior, J. Chronic Diseases, 67. Address: College of Human Development, Pennsylvania State University, University Park, Pa. 16802.

BORTS, PROF. GEORGE H, b. New York, N.Y, Aug. 29, 27; m. 48; c. 2. ECONOMICS. A.B, Columbia, 47; Soc. Sci. Res. Coun. fel, Chicago, 48-49, M.A, 49, Ph.D, 53. Asst. prof. ECON, BROWN, 50-55, assoc. prof, 55-60, PROF, 60-, CHMN. DEPT, 64- Res. assoc, Nat. Bur. Econ. Res, Inc, 54-55 & mem. conf. res. income & wealth; Ford Found. faculty res. fel, 60-61. Econ. Asn; Economet. Soc. Economic growth among open economies; growth and maturity among regions of the United States. Publ: Co-auth, Economic growth in a free market, Columbia, 64; auth, Regional cycles of manufacturing employment in the U.S; Patterns of regional economic development in the U.S. and their relation to rural poverty, U.S. Dept. Agr, 67. Address: Dept. of Economics, Brown University, Providence, R.I. 02912.

BORTZ, DR. NELSON M(ARKLEY), b. Collegeville, Pa, Aug. 3, 08. ECONOMICS. B.S, Ursinus Col, 30, LL.D, 64; A.M, Clark, 31; Pennsylvania, 32. Teacher econ. & govt, Worcester Polytech, 32-34; econ, North Dakota, 35; labor economist, bur. labor statist, U.S. Dept. Labor, 35-51, chmn. R.R. & airline wage bd, 51-53, asst. chief div. wages & indust. rels, bur. labor statist, 53-57, assoc. dir. bur. labor standards, 58-59, dep. asst. secy. labor, 59-64, dir. bur. labor standards, 64-67; RETIRED. Asst-in-charge wage & salary stabilization, Nat. Rwy. Labor Panel, 43-46; secy-treas, Int. Asn. Govt. Labor Off, 58-59; consult, U.S. Dept. Labor, 68. Distinguished serv. award, U.S. Dept. Labor, 58, 60. Econ. Asn; Indust. Rels. Res. Asn. Labor-management relations; union organization and administration; wages. Address: 7901 Greentree Rd, Bethesda, Md. 20034.

BORUM, C(ECIL) J, Agr. Statist, see 10th ed, Soc. & Behav. Vols.

BORUS, DR. MICHAEL E(LIOT), b. Washington, D.C, May 12, 38; m. 61; c. 1. ECONOMICS. B.A, Trinity Col.(Conn), 59; M.A, Yale, 60, McCormick fel. & Ph.D.(econ), 64. Instr. econ, New Haven Col, 63; acting instr, Yale, 63-64; res. assoc. LABOR & INDUST. RELS, MICH. STATE, 64-65, asst. prof, 65-67, ASSOC. PROF, 67- Assoc. proj. dir, U.S. Dept. Labor res. contract, 64-67, prin. investr, res. grant, 67-68; Brookings Inst. econ. policy fel, 68-69. Econ. Asn; Indust. Rels. Res. Asn. Benefit-cost analysis of manpower programs; data sources and research methodology; collective bargaining. Publ: Economic effectiveness of retraining the unemployed, Fed. Reserve Bank Boston, 66; Benefit-cost analysis of the economic effectiveness of retraining the unemployed, Yale Econ. Essays, fall 64; Response error in survey reports of earning information, J. Am. Statist. Asn, 9/66. Address: School of Labor & Industrial Relations, Michigan State University, East Lansing, Mich. 48823.

BORYS, DR. JURIJ, b. Perecin, Ukraine, Apr. 13, 22; m. 59; c. 4. POLITICAL SCIENCE, SOCIOLOGY. B.A, Stockholm, 51, Lic.Phil, 55, Fildr.(polit. sci), 60. Res. fel. Soviet elite, Swedish Gen. Staff, 60-61; Fulbright scholar soviet govt. & for. polit, Stockholm, 62-65; vis. prof. Soviet Govt, Alberta, 65-66; assoc. prof. POLIT. SCI, CALGARY, 66-68, PROF, 68- Centennial lectr, Missouri, Columbia, 61; vis. prof, Stanford, 62; summer vis. prof, Washington (Seattle), 66. Res. grants, Swedish Res. Coun. Soc. Studies, 62-64 & Can. Coun, 67. Czech. Army, 43-46, Lt. Can. Polit. Sci. Asn; Swedish Polit. Sci. Asn; Int. Polit. Sci. Asn. Soviet nationality problems; nationalism; Soviet political elite; Ukrainian problem: comparative government. Publ: The Russian Communist Party and the Sovietization of Ukraine, Univ. Stockholm, 60; co-auth, Foreign governments, Libra, Stockholm, 65 & 67. Address: Dept. of Political Science, University of Calgary, Calgary, Alta, Can.

BOSCH, PROF. LEON A(RTHUR), b. Holland, Mich, Nov. 5, 07; m. 35; c. 1. BUSINESS ADMINISTRATION. A.B, Hope Col, 29; scholar, Illinois, 29-30, A.M, 30; Ph.D, Northwestern, 48. Lectr. ECON, NORTHWESTERN, 30-31, instr, 31-35, asst. prof, 36-42, assoc. prof, 46-48, PROF, 48-, chmn. dept. bus. admin, 48-53, assoc. dean & dir. grad. sch, 53-62. Sales res. & training dir, Oscar Mayer Co, 40-42; rationing off, Off. Price Admin, 42-46. Consult, 46- Mgt. Asn. Rationing controls during World War II; corporate management; executive development. Address: Northwestern University Graduate School of Business Administration, Evanston, Ill. 60201.

BOSCO, SISTER M(ARY) JOHN, R.G.S, b. Sandusky, Ohio, Sept. 24, 07. PSYCHOLOGY. B.A, Heidelberg Col, 29; M.A, Ohio State, 44, Ph.D.(spec. ed, clin. psychol), 51. Clin. psychologist, Columbus State Sch, 51-52; lectr. PSYCHOL, XAVIER (OHIO), 61-64, adj. asst. prof, 64-67, ADJ. ASSOC. PROF, 67- Clin. psychologist, Cath. Guid. Clin, 54-66; Girls Town, 54- Psychol. Asn. Personality theory; psychotherapy. Publ: Investigation of effects of group psychotherapy in improving adjustment of adolescent girls in an institutional setting, Grad. Bull. Ohio State Univ. Address: 575 North Bend Rd, Cincinnati, Ohio 45216.

BOSDELL, DR. BETTY J(ANE), b. Mobile, Ala, Aug. 30, 28. PSYCHOLOGY, COUNSELING. B.A, Ala. Col, 49; M.Ed, Illinois, 54, Ph.D.(guid, counseling), 58. Teacher, pub. schs, Ala, 49-54; instr. ed, Illinois, 54-58; asst. prof. psychol, Chico State Col, 58-59; North Dakota, 59-62; State Col. Iowa, 62-63, ASSOC. PROF. counseling & ed. psychol, 63-66; COUNSELING, NORTHERN ILLINOIS, 66- Consult, Tex. Tech. Col, 60. AAAS; Psychol. Asn; Personnel & Guid. Asn. Evaluation of counseling methods; selection and

training of mental health personnel; preventive mental health practices of children and families. Publ: Evaluation of counseling treatment with underachieving high school students; co-auth, Evaluating counseling effectiveness, In: Research guidelines for high school counselors, Col. Entrance Bd, 67. Address: Dept. of Education, Northern Illinois University, DeKalb, Ill. 60115.

BOSKOFF, PROF. ALVIN, b. Brooklyn, N.Y, Aug. 28, 24; m. 50; c. 3. SOCIOLOGY. B.S.S, City Col. New York, 45; M.A, Columbia, 48; Ph.D.(sociol), North Carolina, 50. Instr. SOCIOL, Illinois, 50-51; asst. prof, Drake, 51-54; assoc. prof. & head dept, Norfolk Div, Col. William & Mary, 55-58; PROF, EMORY, 58- Res. consult, Norfolk Coun. Soc. Agencies, 58; bd. mem. & chmn. policy cmt, Family Counseling Center Metrop. Atlanta, 60- U.S.A, 46-47. Fel. Sociol. Asn. Urban community; social change; sociological theory; juvenile delinquency; political sociology; voting studies. Publ: Co-auth, Modern sociological theory, Holt, 57; Sociology and history, Macmillan, 64; The sociology of urban regions, Appleton, 62. Address: Dept. of Sociology, Emory University, Atlanta, Ga. 30322.

BOSLAND, PROF. CHELCIE C(LAYTON), b. Waubay, S.Dak, June 9, 01; m. 32; c. 4. ECONOMICS, FINANCE. B.S, Minnesota, 23, A.M, 24; Ph.D, Michigan, 29. Instr. ECON, Minnesota, 26-29; asst. prof, BROWN, 29-36, assoc. prof, 36-45, PROF, 45-, chmn. dept, 37-49. Vis. prof, Northwestern, 55-56. Consult. Econ. Asn; Finance Asn.(pres, 41). Corporation finance; government regulation of industry; public finance. Publ: Estate tax valuation in the sale or merger of small firms, 63 & Valuation theories and decisions of the securities and exchange commission, 64, Simmons-Boardman; Valuation of public utility enterprises by the S.E.C, J. Finance. Address: 90 Chapman Ave, Warwick, R.I. 02886.

BOSLEY, DR. JOHN J(OSEPH), b. Keyser, W.Va, Nov. 11, 35; m. 65. SOCIAL PSYCHOLOGY. A.B, West Virginia, 56; univ. fel, Hopkins, 58-59, U.S. Pub. Health Serv. fel, 60-62, Ph.D.(psychol), 62. Psychologist, STANFORD RES. INST, 62-64, SOC. PSYCHOLOGIST, TECH. MGT. PROGS, 64- Asst. prof, Ohio State & U.S. Air Force Inst. Tech, S.Dak, 66. Consult, Calif. Dept. Ment. Hygiene, 62-63; Univ. California Space Sci. Lab, 64-65. Mil.Intel, U.S.A.R, 56-62. Psychol. Asn. Social perception; mass communication effects on socialization; educational policy research; social psychology of technical specialization. Address: Technology Management Programs, Stanford Research Institute, Menlo Park, Calif. 94025.

BOSS, IRWIN S, b. New York, N.Y, Aug. 7, 12; m. 50. ECONOMICS. B.A, City Col. New York, 41; M.A, N.Y. Univ, 51. Contact rep, Vet. Admin, 45-59; REVENUE OFFICER, INTERNAL REVENUE SERV, 59- Instr, Queens Col. (N.Y), 53-61. U.S.A, 43-44. Econ. Asn. Labor problems; business organization; economic theory. Publ: Some historical and economic aspects of the guaranteed annual wage. Address: 8000 Shore Front Pkwy, Rockaway Beach, N.Y. 11693.

BOSSART, PROF. PHILIP C(ORYDON), b. Pittsburgh, Pa, Nov. 23, 24. PSYCHOLOGY. B.S, Pittsburgh, 47, M.S, 49; Ph.D.(psychol), Syracuse, 65. Instr. PSYCHOL, Susquehanna, 52-55; asst, Syracuse, 55-56; from asst. prof. to assoc. prof, SUSQUEHANNA, 56-65, PROF. & CHMN. DEPT, 65- Psychologist, Selinsgrove State Sch. & Hosp, 58-65, psychologist II & acting dir. psychol. lab, 65- U.S.N, 43-46. Psychol. Asn. Attitude and personality. Address: Dept. of Psychology, Susquehanna University, Selinsgrove, Pa. 17870.

BOSSONS, DR. JOHN DAVID, b. Vancouver, B.C, Jan. 21, 36. ECONOMETRICS, FINANCE. B.A, British Columbia, 56; Mackenzie King fel, Harvard, 57-58, A.M, 58, Ford Found. fel, 60-61, Ph.D.(econ), 62. Asst. bus. admin, Harvard, 59-60; asst. prof. finance, Mass. Inst. Tech, 61-63; ECON, Carnegie Inst. Tech, 63-66; ASSOC. PROF, TORONTO, 66- Proj. dir, Royal Cmn. Taxation, Govt. Can, 65-67; consult, Bankers Trust Co, New York, 63-67. Am. Econ. Asn; Statist. Asn; Finance Asn; Economet. Soc; Inst. Math. Statist; Agr. Econ. Asn; Can. Econ. Asn. Time series analysis; forecasting techniques; descriptive and normative models of businessmen's forecasting of sales, profits and other operation variables; normative analysis of capital budgeting and financial management; public finance; taxation. Publ: A general income tax analyzer, Ottawa: Queen's Printer, 67; co-auth, Source of regressiveness in surveys of businessmen's short-run expections, In: Quality and economic significance of anticipations data; auth, Effects of parameter misspecification and non-stationarity on the applicability of adaptive forecasts, Mgt. Sci, 5/66. Address: Institute for Policy Analysis, University of Toronto, Toronto 5, Ont, Can.

BOSSY, DR. GEORGE H(ENRY), b. Bucharest, Romania, July 15, 28. ECONOMICS. Geneva, 50; M.A, Columbia, 56, scholar, 57-58, Ph.D.(econ), 64. From res. asst. to res. supvr. econ, Mid-European Studies Center, 54-56; res. asst. int. econ, Columbia, 56-58; economist, balance of payments div, FED. RESERVE BANK NEW YORK, 58-65, domestic res. div, 65-67, CHIEF, FOR. RES. DIV, 67- Adj. asst. prof, N.Y. Univ, 65-66; consult, Bank Int. Settlements, 66. Am. Econ. Asn; Royal Econ. Soc. International economics; business fluctuations; economic development. Publ: East-Central Europe under the communists; Chaps. In: Romania & Albania. Address: 16 E. 96th St, New York, N.Y. 10028.

BOSTWICK, DR. DON, b. Aurora, Ill, Nov. 30, 27; m. 50; c. 2. AGRICULTURAL ECONOMICS. B.S, Wyoming, 53; M.S, N.Dak. State, 55; Ph.D, Montana State, 68. Agr. economist, econ. res. serv, U.S. Dept. Agr, 55-62; ECONOMIST, farm mgt, Food & Agr. Orgn, UN, 62-66; PROD. ECON, ECON. RES. SERV, U.S. DEPT. AGR, 66- U.S.A, 45-47. Decision making processes, especially in farm financial management; economic, and such non-economic factors as attitudes, levels of knowledge, preferences, and other psycho-social phenomena; financial management of farm firms. Publ: Agricultural production credit; Attitudinal research relating to farmers' use of short-term credit; Yield probabilities as a Markov process, Agr. Econ. Res. Address: 1662 Wainwright Dr, Reston, Va. 22070.

BOSWELL, PROF. FOSTER P(ARTRIDGE), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

BOSWORTH, PROF. KARL A(NDREW), b. Neosho Falls, Kans, Jan. 11, 09; m. 37; c. 2. POLITICAL SCIENCE. A.B, Nebraska, 31, A.M, 32; Ph.D. (polit. sci), Chicago, 42. Asst, State Legis. Coun. Kans, 36-37; instr, Wichita, 37; asst. polit. sci, Chicago, 37-40; instr, Alabama, 40-41; asst. act. dir. res, State Legis. Coun, Ill, 41-43; admin. consult, Civil Serv. Assembly & Am. Munic. Asn, 43-46; assoc. prof. POLIT. SCI, Western Reserve, 46-48; CONNECTICUT, 48-61, PROF, 61-, DIR. INST. URBAN RES, 65- Surv. unit dir, Cmn. State Govt. Orgn, 49. Budget consult. to Gov, Conn, 48-49; consult, State Personnel Dept, Conn, 55-; Yale Pub. Health Dept, 56-57; Norwich Charter Cmn, 60-61; Cmn. to Study Necessity & Feasibility of Metrop. Govt. in Conn, 66; East Hartford Charter, 67. Mem. group studying reapportioned state legis, Conn, 67-69. Del, Am. Assembly State Legislatures, 66. Polit. Sci. Asn; Soc. Pub. Admin; Int. City Mgr. Asn; Nat. Munic. League. Public administration; state and local government, especially policy forming and political aspects. Publ: Co-auth, The fifty states and their local governments, Knopf, 67; Black belt county; Tennessee Valley county. Address: 2 Eastwood Rd, Storrs, Conn. 06268.

BOSWORTH, DR. LANIS L(OY), b. Mountain View, Okla, Feb. 20, 22; div; c. 1. PSYCHOLOGY. M.A, Texas, 48, fel, 48-50, Ph.D, 61. Instr. PSYCHOL, TEXAS, EL PASO, 50-55, asst. prof, 55-61, ASSOC. PROF, 61- U.S.N, 43-46, Lt. Motivation and learning. Address: Dept. of Psychology, University of Texas at El Paso, El Paso, Tex. 79999.

BOSWORTH, DR. WILLIAM A, b. C.Z, Jan. 25, 34; m. 62. POLITICAL SCIENCE. B.A, Stanford, 54; Ph.D, Princeton, 60. From instr. to ASSOC. PROF. POLIT. SCI, HUNTER COL, 60- Comparative politics in Western Europe, particularly in France and Africa; parties and pressure groups; church-state relations. Publ: Catholicism and crisis in France; French Catholic hierarchy and the Algerian question, West. Polit. Quart. Address: Dept. of Political Science, Hunter College, 695 Park Ave, New York, N.Y. 10021.

BOTHWELL, PROF. WILBER C(LARENCE), b. Kansas City, Mo, May 15, 10; m. 48; c. 4. ECONOMICS, POLITICAL SCIENCE. A.B, Drury Col, 31; A.M, Washington (St. Louis), 33, Ph.D, 41. Res. assoc, Govt. Res. Inst, St. Louis, Mo, 41-42; PROF. ECON. & POLIT. SCI, DRURY COL, 46-, CHMN. DEPT. ECON. & BUS. ADMIN, 59-, DIR. BREECH SCHOOL OF BUSINESS ADMINISTRATION, 65- Ford Found. grant. Mem. panel arbitrators, Fed. Mediation & Conciliation Serv. Econ. Asn; Arbit. Asn; Acad. Arbit. Labor and industrial relations; monetary theory and banking; history of banking in Missouri from the Civil War to 1913; federal reserve bank of St. Louis. Address: Dept. of Economics & Business Administration, Drury College, Springfield, Mo. 65802.

BOTT, DR. EDWARD A(LEXANDER), b. Ingersoll, Ont, Apr. 11, 87; m. 17; c. 3. PSYCHOLOGY. B.A, Toronto, 12; D.Sc, McGill, 54. Instr. psychol, Toronto, 16-26, prof. & head dept, 26-56; PSYCHOL. CONSULT, DEPT. REFORM INSTS, PROV. OF ONT, 56- Training adv, Royal Air Force, Air Ministry, Eng, 41-45. Consult. aviation psychol, Defence Res. Bd, Can, 46- Order of the Brit. Empire, 46. Psychol. Asn; fel. Can. Psychol. Asn. Experimental psychology; vision; muscle action. Address: 38 North Park Dr, Toronto 15, Ont, Can.

BOTTENBERG, DR. ROBERT A(LAN), b. Kansas City, Mo, Sept. 25, 24; m. 46; c. 3. STATISTICS. A.B, Missouri, 48, M.A, 50; Ph.D, Stanford, 57. CHIEF STATIST. ANAL. DIV, PERSONNEL LAB, U.S. AIR FORCE, 53- Mem. adv. panel, blinded vet. res. proj, Am. Found. for Blind, 64-66; adv. cmt, sensory aids eval. & develop. center, Mass. Inst. Tech, 65-; staff mem, conf. multivariate design & anal. in ed. res, Am. Ed. Res. Asn, 67-68. Psychomet. Soc; Statist. Asn; Inst. Math. Statist; Asn. Aviation Psychol. Development and application of statistical procedures using high speed computers to personnel research problems. Publ: Exploitation of personnel data by means of a multiple linear regression model, 12/60 & co-auth, An iterative technique for clustering criteria which retains optimum predictive efficiency, 3/61, personnel lab, Wright Air Develop. Div; Applied multiple linear regression, personnel res. lab, Aerospace Med. Div, 3/63. Address: 4014 Fawnridge, San Antonio, Tex. 78229.

BOTTS, PROF. ADELBERT K(ENNETH), b. Frazee, Minn, May 2, 03; m. 28; c. 2. GEOGRAPHY. A.B, N.Dak. State Teachers Col, 26; A.M, 31; Ph.D. (geog), Clark, 34. Teacher, jr. high sch, Minn, 27-30; act. asst. prof. geog, Miami (Ohio), 31-32; geogr, N.Y. State Nor. Sch, Cortland, 34-38, 39-40; vis. lectr. GEOG, Teachers Training Col, Auckland, N.Z, 38-39; prof. & chmn. dept, TRENTON STATE COL, 40-65, EMER. PROF, 65-; PROF, BOWLING GREEN STATE, 65- U.S.C.G.R, 42-45. Asn. Am. Geog; Geog. Soc; Coun. Geog. Ed.(pres, 60). Geography of New Zealand. Address: Dept. of Geography, Bowling Green State University, Bowling Green, Ohio 43402.

BOTTUM, PROF. J(OE) CARROLL, b. Tulare, S.Dak, Nov. 1, 02; m. 28; c. 2. AGRICULTURAL ECONOMICS. B.S, S.Dak. State Col, 26; M.S, Illinois, 27. Mgr. farm, S.Dak, 20-22; dept. farm econ, S.Dak. State Col, 23-26; asst. agr. econ, Illinois, 26-27, agr. econ, agr. eng. & animal husb, 27-28; farm mgt, PURDUE, 28-35, asst. prof. AGR. ECON, 35-40, assoc. prof, 40-42, PROF, 42-, ASST. HEAD DEPT, 47-, ASSOC, AGR. EXP. STA, 28- Economist, Am. Farm Bur. Fedn, 46-47; vis. prof, Iowa State, 59. Chmn, Nat. Ed. Cmt. on Agr. Policy, 52-53; U.S. Coun, Int. Asn. Agr. Economists, 58-61. Superior Serv. award, U.S. Dept. Agr, 60. Agr. Econ. Asn.(v.pres, 47). Farm management, outlook and public policy. Publ: Increasing farmers' understanding of public problems and policies, J. Farm Econ; Land retirement as a solution of supply-demand imbalance; co-auth, Land retirement and farm policy. Address: Dept. of Agricultural Economics, Purdue University, Lafayette, Ind. 47907.

BOTTY, PROF. PAULINE E(STERHAY), b. Conneaut, Ohio, Jan. 24, 09; m. 28; c. 2. SOCIOLOGY. B.S, State Univ. N.Y, 31, LL.B, Youngstown, 45; M.A, Western Reserve, 48. Labor Mkt. analyst, U.S. Dept. Labor & U.S. Employ. Serv, 42-45; ASSOC. PROF. SOCIOL, YOUNGSTOWN, 48-, head dept, 48-68, dean women, 50-54. Fel. Sociol. Asn. Interdisciplinary relationships in social sciences for general education; social sciences and

nursing education; a synthesis of sociology, anthropology and psychology. Address: Dept. of Sociology, Youngstown University, Youngstown, Ohio 44503.

BOTWINICK, DR. JACK, b. Brooklyn, N.Y, Jan. 9, 23; m. 56; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 46, M.A, 50; Ph.D.(psychol), N.Y. Univ, 53. Res. psychologist, geront. sect, Nat. Heart Inst, 49-50; lab. psychol, Nat. Inst. Ment. Health, 55-63; PROF. MED. PSYCHOL, DEPT. PSYCHIAT, MED. SCH, DUKE, 63- Fel. Psychol. Asn; fel. Geront. Soc. (v.pres, 61-62). Aging; cognition; psychomotor skills. Publ: Cognitive processes in maturity and old age, Springer Pub; Theories of antecedent conditions of speed of response, In: Behavior, aging and the nervous system; Drives, expectancies and emotions, In: Handbook of aging and the individual. Address: Dept. of Psychiatry, Duke University School of Medicine, Durham, N.C. 27706.

BOTZUM, W(ILLIAM) A(LBERT), C.S.C, b. Akron, Ohio, Aug. 20, 16. PSYCHOLOGY. A.B, Notre Dame, 38; Ph.D, Chicago, 50. Instr. ed, Notre Dame, 48-51; asst. prof. psychol, Portland, 51-53, assoc. prof, 53-58, prof, 58-66, chmn. dept, 53-61, dean grad. sch, 56-66; PROF. PSYCHOL, NOTRE DAME, 66-, ASSOC. DEAN GRAD. SCH, 67-, asst. dean, 66-67. Psychol. Asn; Psychomet. Soc. Construction of psychological tests; factor analysis; experimental design of psychological experiments. Publ: A factorial study of the reasoning and closure factors, Psychometrika. Address: Dept. of Psychology, University of Notre Dame, Notre Dame, Ind. 46556.

BOUCHARD, DR. ANDRE, b. Quebec, Que, Sept. 21, 32; m. 60; c. 3. AGRICULTURAL ECONOMICS. B.A, Laval, 54, B.S.A, 59; M.S, Cornell, 61; Ph.D.(agr. ed), Ohio State, 66. Agronomist, Ministry Agr, Que, 59-62; ASST. PROF. AGR. ECON, LAVAL, 62- Agr. Inst. Can. Extension and adult education; program planning. Publ: La planification de programmes, 66 & Le perfectionnement professionnel—agronomes vulgarisateurs, 66, Rev. Agr, Que; Training needs of extension agents, Agr. Inst. Rev. Can, 67. Address: Faculty of Agriculture, Laval University, Quebec 10, Que, Can.

BOUCHARD, PROF. M(AURICE) L(ÉON), Econ, Indust. Rels, see 10th ed, Soc. & Behav. Vols.

BOUCHARD, DR. THOMAS J, JR, b. Manchester, N.H, Oct. 3, 37; m. 60; c. 2. PSYCHOLOGY. B.A, California, Berkeley, 63, Ph.D.(psychol), 66. ASST. PROF. PSYCHOL, CALIFORNIA, SANTA BARBARA, 66- Res. consult, Center for Coordinated Ed, 66- U.S.A.F, 55-59. Small group dynamics; bilingualism and personality; personality assessment; computer simulation; intelligence and motivation. Publ: Current conceptions of intelligence and their implications for assessment, In: Advances in psychological assessment, Behavior Sci, 68. Address: Dept. of Psychology, University of California, Santa Barbara, Calif. 93106.

BOUCHER, PROF. BERTRAND PHILLIP, b. Fall River, Mass, Apr. 3, 23; m. 46; c. 3. GEOGRAPHY. B.A, Colorado, 50; M.A, 51; fel, Clark, 51-52. Asst. prof. GEOG, MONTCLAIR STATE COL, 52-66, ASSOC. PROF, 66-, assoc. dir. world affairs inst, summers, 55-57. Scholar, comput. training conf, Harvard, 67. Coordinator, Nat. Coun. Geog. Ed, 66- Summers, instr, Upsala Col, 53, asst. prof, Colorado, 61, City Col. New York, 65, lectr, 67. Ed-in-chief, N.J. Almanac, 64-65 & 66-67. U.S.A.A.F, 42-46. Asn. Am. Geog; Nat. Coun. Geog. Ed. Study of geographic and economics forces that relate to the distribution and location of man's productive activities; historical geography or sequent occupance of New Jersey. Publ: School integration and its relation to the distribution of Negroes in U.S. cities, Ed. Forum. Address: Dept. of Geography, Montclair State College, Montclair, N.J. 07043.

BOUCHER, DR. PIERRE, b. Montreal, Que, Mar. 20, 32; m. 56; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Montreal, 52, B.Ps, 53, L.Ps, 55, award, 61-62, Ph.D, 63. Chief clin. psychol, Inst. Albert Prevost, 56-60; sr. voc. guid. officer, Dept. Youth, 60-61; asst. researcher psychol, Univ. Montreal, 61-63; dir. psychol. serv, Mont-Providence Hosp, 63-67; SR. RESEARCHER, CENTER FOR RES. & DEVELOP. IN ED, 67- Lectr, Montreal, 60-61; Dept. Ed. 61-62; Laval, 63-65. Consult, Notre-Dame Hosp, 58-61. Can. Psychol. Asn; Int. Asn. Appl. Psychol. Latent learning; psychosocial effects of neurosurgery and rehabilitation on Parkinson's disease; drive, activation, heart beat and instrumental activity; psychotherapy of young psychiatric patients; mongolism; psychometric research of phenotypes related to different kariotypes; adolescence, school innovation and social deviance and delinquency; in search of a youth typology. Address: 2525 Havre des Iles. Apt. 1405, Pavilion B, Chomedey, Laval, Que. Can.

BOUDREAUX, DR. JEAN ROSE, b. New Orleans, La, Mar. 19, 32. SPEECH & HEARING SCIENCE. B.A, Southwestern Louisiana, 53; M.A, West Virginia, 57; Ph.D.(speech path), Western Reserve, 60. Speech pathologist, Marion County Sch. Bd, W.Va, 51-53; diag. asst, Cleveland Speech Center, Ohio, 57-58; res. asst. lang. disorders, Western Reserve, 58-59; coordinator of diag, Our Lady of the Lake Col, 60-63; dir, children's eval. center, Behav. Dynamics, San Antonio, Tex, 63-64; asst. prof. SPEECH PATHOL, ARIZONA, 64-65, ASSOC. PROF, 65- Participant, neurol. inst, Iowa, summer, 64; faculty develop. inst, Arizona, 68. Consult, Northside Sch. Dist, San Antonio, Tex, 60-63; Sunny Side Sch. Dist, Tucson, Ariz, 66-67. Speech & Hearing Asn. Language-learning disabilities in children; motor movement in psychoneurological disorders; secondary level language and motor performance. Publ: Nomenclature in aphasia, Ariz. Speech & Hearing Bull, 8/67. Address: 9001 Bears Path, Tucson, Ariz. 85715.

BOULANGER, DR. JEAN BAPTISTE, b. Edmonton, Alta, Aug. 24, 22; m. 65; c. 1. PSYCHOANALYSIS. B.A, Montreal, 41, M.D, 48; M.A, McGill, 50; dipl. psychol, Paris, 51, lic. psychol, 54. Instr. PSYCHIAT, FACULTY MED, MONTREAL, 53, lectr, 54, asst. prof, 54-59, ASSOC. PROF, 59- Attend. physician, neuropsychiat. serv, Notre Dame Hosp, 53-61; training analyst, Can. Inst. Psychoanal, 57, med. dir. treatment serv, 59; consult. & dir. group psychother, Ste-Justine Hosp, 59-; consult, Inst. Albert Prévost, 60-; Lakeshore Gen. Hosp, 65-; Verdun Gen. Hosp, 65-; private practice. Dir, Congrés des Psychanalystes de langues romanes, 60- Fel, Royal Col. Physicians Can, 55. Can. Psychoanal. Soc.(pres, 58-60); fel. Am. Psychiat. Asn; Int. Psychoanal. Asn; Can. Psychiat. Asn. Medical undergraduate education; postgraduate psychiatric training; psychoanalytic education and training; group psychotherapy; forensic psychiatry; adult and child neuropsychiatry. Publ: Group psychoanalytic therapy in child psychiatry, Can. Psychiat. Asn. J, 6: 272; The metapsychology of depression, Psychiat. Res. Report 17, Am. Psychiat. Asn, 63; Introduction, In: Le psychiatre devant l'homosexuel, Editions du Jour, Que, 65. Address: 3610 Ave. Atwater, Montreal 25, Que, Can.

BOULDING, PROF. KENNETH E(WART), b. Liverpool, Eng, Jan. 18, 10; m. 41; c. 5. ECONOMICS. B.A, Oxford, 31, M.A, 39; fel, Chicago, 32-34. Instr, Colgate, 37-41; economist, League of Nations, 41-42; prof, Fisk, 42-43; assoc. prof, Iowa State Col, 43-46; Angus prof. polit. econ. & chmn. dept, McGill, 46-47; prof, Iowa State Col, 47-49; ECON, Michigan, 49-67; PROF, COLORADO, 67- AAAS (v.pres. Sect. K, 66); Am. Econ. Asn.(Clark Medal, 49, pres, 68); Royal Econ. Soc. Economic theory; economics and ethics; general systems theory; conflict resolution. Publ: The image; Principles of economic policy; Conflict and defense. Address: Institute of Behavioral Science, University of Colorado, Boulder, Colo. 80302.

BOULGER, DR. JOHN R(ICHARD), Psychol, see 10th ed, Soc. & Behav. Vols.

BOULTER, DR. LAWRENCE RAYMOND, b. Hanna, Alta, June 1, 32; m. 56; c. 2. PSYCHOLOGY. B.A, British Columbia, 59; Ph.D.(psychol), Illinois, 63. ASST. PROF. PSYCHOL, YORK (ONT), 63- AAAS; Am. Psychol. Asn; Can. Psychol. Asn. Learning; attention. Publ: Co-auth, Contemporary issues in developmental psychology, Holt, 68. Address: Dept. of Psychology, York University, Toronto 12, Ont, Can.

BOUMA, PROF. DONALD H(ERBERT), b. Grand Rapids, Mich, Feb. 9, 18; m. 40; c. 3. SOCIOLOGY. A.B, Calvin Col, 40; A.M, Michigan, 43; Ph.D, Mich. State, 52. From assoc. prof. to prof. SOCIOL, Calvin Col, 46-60; assoc. prof, WESTERN MICHIGAN, 60-63, PROF, 63- Lectr, univ. exten, Michigan, 46- Consult. poverty progs. & race, 64-; Mich. adv, U.S. Civil Rights Cmn, 64- Sociol. Asn. Sociology of power; sociology of education; deviant behavior; minority groups. Publ: Social power position of a real estate board; Dynamics of school integration, Eerdmans, 68; Legitimation of social power, J. Sociol. & Econ. Address: Dept. of Sociology, Western Michigan University, Kalamazoo, Mich. 49001.

BOUND, DR. MAE M(ATTHISEN), b. Milwaukee, Wis, Sept. 23, 29; m. 56; c. 3. CLINICAL PSYCHOLOGY. B.S, Wisconsin, 51; M.S, Purdue, 55, Ph.D. (psychol), 57. Asst. prof. child develop, Purdue, 57-58; staff psychologist, Hawthornden State Hosp, Macedonia, Ohio, 58-60, chief psychologist, 60-63; staff psychologist, AGNEWS STATE HOSP, SAN JOSE, 64-65, SR. PSYCHOLOGIST, 66- Psychol. Asn. Training in mental health; community psychology; behavior therapy. Address: 530 Hazel Ave, Millbrae, Calif. 94030.

BOUNDS, DR. JOHN HOWARD, b. Oak Park, Ill, Mar. 3, 31; m. 58. GEOGRAPHY. B.S, Fla. South. Col, 59; M.Ed, Florida, 62; Ph.D.(geog), Tennessee, 66. ASST. PROF. GEOG, Radford Col, 64-66; Southern Mississippi, 66-68; SAM HOUSTON STATE COL, 68- U.S.A, 51-54. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Economic and regional geography; Latin America; land use. Publ: A geography exhibit for science fair, J. Geog, 63; Forestry in the Bahamas, Forest Farmer, 68. Address: Dept. of Geography, Sam Houston State College, Huntsville, Tex. 77340.

BOUQUET, DR. SUSANA, b. Mex, Sept. 19, 19; U.S. citizen. SOCIAL PSYCHOLOGY. B.S, Columbia, 55, M.A, 56, Ph.D.(soc. psychol), 61. Res. asst. student drop-outs, Hunter Col, 59-60; instr. soc. sci, Brooklyn Col, 61-62; asst. prof. sociol. & psychol, Queensborough Community Col, 62-65; LATIN-AM. ASSOC, ANTIOCH COL-GREAT LAKES COL. ASN, 66- Lectr, Peace Corps Training Centers for Brazil, N.Y. Univ. 65, Exp. Int. Living, Vt, 65; Great Lakes Col. Asn. lectr, Denison, 67, Albion Col, 67. Psychol. Asn; Sociol. Asn. Race relations in Brazil and in the United States; cross-cultural research; socio-psychological study of religious pilgrimages, especially in Latin America. Publ: Taquick, Gerth Todman, Brazil, 45; co-auth, The Peace Corps in Brazil, Univ. Texas, 66; auth, Communities in the São Francisco Valley, Brazil, Luzo-Brazilian Rev, 67. Address: Antioch College, Yellow Springs, Ohio 45387.

BOURASSA, DR. CHARLES M, b. Wyandotte, Mich, July 18, 34; m. 58; c. 3. PSYCHOLOGY. B.A, Mich. State, 56, M.A, 60, Ph.D.(psychol), 62. RES. ASSOC. PHYSIOL. PSYCHOL, GOOD SAMARITAN HOSP, 62- AAAS; Psychol. Asn; Optical Soc. Relation of psychological phenomena to physiological mechanisms. Publ: Mechanism of binocular increase of discomfort to high luminance, Nature, 66; Sensory discrimination thresholds with cutaneous afferent nerve volleys in the cat, J. Neurophysiol, 67; Effects of partial and total cerebellar ablations on visual cliff performance in the hooded rat, J. Comp. & Physiol. Psychol, 67. Address: Neurophysiology Lab, Good Samaritan Hospital, Portland, Ore. 97210.

BOURBON, DR. WALTER THOMAS, JR, Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BOURESTOM, DR. NORMAN C(HARLES), JR, b. Duluth, Minn, Jan. 27, 31; m. 56. CLINICAL PSYCHOLOGY. B.A, Minnesota, 52; M.A, North Dakota, 54; fel, Houston, 55-56, Ph.D, 56. Clin. psychologist, Vet. Admin. Hosp, Tomah, Wis, 56-58; asst. prof. psychol, North. State Teachers Col, 58-59; res. clin. psychologist, follow-up study, Minnesota, 59-60; clin. psychologist, Ment. Health Inst, Independence, Iowa, 60-62; dir. psychol. serv, Kenny Rehab. Inst, 62-67; RES. ASSOC. GERONT, MICHIGAN, 67- Clin. psychologist, ment. health center, Aberdeen, S.Dak, 58-59. Consult, Kenny Rehab. Inst, 67-; Nat. Med. Audiovisual Center, 67- Med.C.Res, 47-57, 1st Lt. Psychol. Asn; Gerontol. Soc. Psychological and sociological aspects of aging, especially the development of predictive criteria of pathological aging and treatment of mental disorders in old age; psychotherapy, especially the effects of differential intervention. Publ: A comparison between fantasy productions and social behavior in experimental group psychotherapy, Group psychother; Personality characteristics of three disability groups, 9/66 &

Predictors of long term recovery in cerebrovascular disease, 9/67, Arch. Phys. Med. & Rehab. Address: 1510 Rackham Bldg, University of Michigan, Ann Arbor, Mich. 48104.

BOURGUIGNON, PROF. ERIKA E(ICHHORN), b. Vienna, Austria, Feb. 18, 24; nat; m. 50. CULTURAL ANTHROPOLOGY. Ph.D.(anthrop), Northwestern, 51. Instr. ANTHROP, OHIO STATE, 49-56, asst. prof, 56-60, assoc. prof, 60-66, PROF, 66- Dir, Nat. Inst. Ment. Health res. grant, 63- Fel. Anthrop. Asn; fel. Ethnol. Soc. Acculturation; problems of culture and personality; dissociational states, ethnopsychiatry; cross-cultural studies. Publ: The persistence of folk belief: some notes on cannibalism and zombis in Haiti, J. Am. Folklore; The self, the behavioral environment and the theory of spirit possession, In: Context and meaning in cultural anthropology, Macmillan, 65; World distribution and patterns of possession states, In: Trance and possession states, McGill Univ. 68. Address: Dept. of Anthropology, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

BOURKE, DR. WILLIAM T(HEODORE), b. New York, N.Y, Aug. 11, 20. PSYCHOLOGY. B.S, Cornell, 43; B.A, Tulane, 47, M.S, 49, Ph.D.(psychol), 52. Clin. psychologist, Vet. Admin. Ment. Hyg. Clin, 52-53, chief clin. psychologist, 53-57; PRIVATE PRACTICE & CONSULT, 57- Consult, U.S. Pub. Health Serv, La, 52-57. U.S.A, 43-45. AAAS; Psychol. Asn; Acad. Psychother. Psychotherapy; projective techniques; measurements in psychotherapy; executive appraisal. Publ: Effects of frontal lobe damage upon habit reversal in the white rat, J. Comp. & Physiol. Psychol; Two contradictory assumptions underlying prognoses and movement with psychotherapy, Am. Psychologist. Address: 155 E. 73rd St, New York, N.Y. 10021.

BOURNE, DR. HOWARD, Econ, see 10th ed, Soc. & Behav. Vols.

BOURNE, PROF. LYLE E(UGENE), JR, b. Boston, Mass, Apr. 12, 32; m. 54; c. 3. PSYCHOLOGY. A.B, Brown, 53, M.S, Wisconsin, 55, Ph.D.(psychol), 56. Asst. prof. PSYCHOL, Utah, 56-61, assoc. prof, 61-63; COLORADO, 63-65, PROF, 65-; CLIN. PROF. PSYCHIAT, SCH. MED, KANSAS, 66- Hon. fel. psychol, Wisconsin, 60; vis. assoc. prof, California, 61-62. Consult, Vet. Admin, 58. Psychol. Asn; Psychomet. Soc; Psychonomic Soc. Human learning processes; concept formation; thinking. Publ: Human conceptual behavior, Allyn & Bacon, 66; Learning and utilization of conceptual rules, Wiley, 67; co-auth, Attribute and rule learning aspects of concept formation, Psychol. Rev, 65. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

BOURNE, PROF. R(ICHARD) M(ASON), b. Kansas City, Mo, Nov. 18, 07; m. 37; c. 2. INDUSTRIAL RELATIONS. B.S, Colo. Agr. & Mech. Col, 31; M.S, Illinois, 32; Ph.D.(econ), Nebraska, 49. Asst. prof. econ, Wyoming, 35-45; assoc. prof. econ. & labor rels, NEBRASKA, LINCOLN, 45-60, PROF. MGT, 60- Dist. economist, Off. Price Admin, 42-45. Econ. Asn; Indust. Rels. Res. Asn. Labor movements. Publ: Office salaries and personnel practices, Lincoln, Nebraska; Profession of personnel administration, Quart. Am. Interprfnl. Inst; Wage guarantees: a re-examination, Labor Law J. Address: 4200 South St, Lincoln, Nebr. 68506.

BOURNE, DR. WESLEY, Anesthesia, see 10th ed, Soc. & Behav. Vols.

BOURNE, WILLIAM N(ETTLETON), Econ, see 10th ed, Soc. & Behav. Vols.

BOURNEUF, PROF. ALICE, b. Haverhill, Mass, Oct. 2, 12. ECONOMICS. A.B, Radcliffe Col, 33, M.A, 39, Belgian-Am. Found. fel, 39-40, Ph.D, 55; Littauer fel, Harvard, 53-54. Economist, Off. Price Admin, 41-42; Fed. Reserve Bd, 42-46; Int. Monetary Fund, 46-48; finance officer, mission to Oslo, Econ. Coop. Admin, 48-49, prog. officer, 49-51, U.K. & Scandinavian br. chief, France, 51-53; asst. prof. ECON. & SOCIOL, Mt. Holyoke Col, 54-56, assoc. prof, 56-57; vis. assoc. prof, California, 57-59; PROF, BOSTON COL, 59- Ford Found. sr. faculty res. fel, 62-63. Econ. Asn. Macro theory; business cycles and growth. Publ: Norway: planned revival; Lending operations of the international monetary fund, Rev. Econ. & Statist; Investment in manufacturing, Am. Econ. Rev. Address: 64 Linden Square E, Wellesley, Mass. 02181.

BOURQUE, PROF. PHILIP J(OHN), b. Holyoke, Mass, Aug. 16, 22; m. 49; c. 4. ECONOMICS, STATISTICS. A.B, Massachusetts, 49; M.A, Pennsylvania, 50, Ph.D.(econ), 56. Instr. econ. & statist, Pennsylvania, 50-54; econ, Muhlenberg Col, 54-55; asst. prof. econ. statist, Lehigh, 55-57; assoc. prof. bus. admin, WASHINGTON (SEATTLE), 57-62, PROF. BUS. ECON, 62- U.S.A.A.F, 43-46. Econ. Asn; Statist. Asn; Regional Sci. Asn. Publ: Regional differences in seasonality of unemployment; co-auth, Washington economy: an input-output study, Univ. Washington, 67; auth, Domestic importance of foreign trade, Rev. Econ. & Statist. Address: University of Washington Graduate School of Business Administration, Seattle, Wash. 98105.

BOUSCAREN, PROF. ANTHONY T, b. Boston, Mass, July 7, 20; m. 44; c. 3. POLITICAL SCIENCE. A.B, Yale, 43; A.M, California, 48, Ph.D.(polit. sci), 51. Instr. polit. sci, San Francisco, 46-48, asst. prof, 48-52, assoc. prof, 53; Loyola (Ill), 53; assoc. prof. & chmn. dept, Marquette, 54-57; polit. affairs, Nat. War Col, 57-58; PROF. POLIT. SCI, LeMOYNE COL.(N.Y), 59- Consult, Washington Report, 64- Trustee, Intercollegiate Studies Inst, 60-; Am. for Constitutional Action, 65-; Am-Asian Ed. Exchange, 66- Christopher award, 52; Regnery award, 52; Freedoms Found. award, 58. U.S.M.C, 42-45, Maj. Polit. Sci. Asn. International politics; comparative government; communism. Publ: A guide to anti-communist action; International migrations since 1945; Soviet foreign policy. Address: Dept. of Political Science, LeMoyne College, Syracuse, N.Y. 13214.

BOUSFIELD, PROF. W(ESTON) A(SHMORE), b. Sao Ching, China, Apr. 22, 04; m. 35; c. 2. PSYCHOLOGY. B.M.E, Northeastern, 27; A.M, Boston, 28; A.M, Harvard, 32, Ph.D.(psychol), 33. Instr. PSYCHOL, Tufts Col, 29-39; asst. prof, CONNECTICUT, 39-41, assoc. prof, 41-46, PROF, 46-, head dept, 39-60. Fel. Psychol. Asn. Verbal behavior. Address: Dept. of Psychology, University of Connecticut, Storrs, Conn. 06268.

BOUSHY, PROF. THEODORE F(ADLO), b. Kefrmechki, Lebanon, Nov. 25, 03; nat; m. 46; c. 2. POLITICAL SCIENCE, SOCIOLOGY. B.A, Oklahoma Baptist, 41; M.A, Oklahoma, 42, Ph.D, 50; scholar, South. Baptist Theol. Sem. 42-43, B.D, 44; West. Ky. Teachers Col, 45; Indiana, 46. Teacher, Allen Mil. Acad, Tex, 46-47; assoc. prof. sociol. & hist, Mercer, 47-48; prof. hist. & sociol. & acting chmn. dept. soc. sci, Wayland Baptist Col, 48-55; prof. hist. & polit. sci. & coordinator, Am. Heritage Prog, Hillsdale Col, 58-60; prof. hist. & polit. sci, Ouachita Baptist Col, 60-61; prof. polit. sci. & chmn. dept, Findlay Col, 61-65; PROF. HIST. & POLIT. SCI, FAYETTEVILLE STATE COL, 65- Acad. Polit. & Soc. Sci; Sociol. Asn; Hist. Asn. Medieval history and Arab-Jewish relations. Publ: Transl, Prolegomena, (in prep); Fadle; Claim of the Arab and the Jew to Palestine. Address: Fayetteville State College, Fayetteville, N.C. 28301.

BOUTHILET, DR. GEORGE, b. Providence, R.I, Apr. 2, 27; m. 51; c. 2. PSYCHOLOGY. B.S, Oklahoma, 52; M.A, New Hampshire, 54; Ph.D.(psychol), Okla. State, 60. Teacher, high sch, Colo, 51-52; group therapist, psychiat. serv, Northampton State Hosp, Mass, 54-56; staff clin. psychologist, Winfield State Hosp. & Training Center, Kans, 56-57; chief clin. psychologist, Enid State Sch, Okla, 57-59; res. assoc. pediat, med. center, Oklahoma, 59-66; chief consult. psychologist & state prog. dir. community guid. serv, State Dept. Health, Okla, 60-66; chief manpower & training sect, ment. retardation br, U.S. PUB. HEALTH SERV, 66, CHIEF RESOURCES DEVELOP. BR, DIV. MENT. RETARDATION, DEPT. HEALTH, ED. & WELFARE, 67- Coordinator child guid. serv, Oklahoma City Pub. Schs, 59-60; vis. prof, Cent. State Col, 60. Mem. cmt. on training, Dept. Health, Ed. & Welfare Secy's. Cmt. Ment. Retardation, 66- U.S.A, 45-46. AAAS; Psychol. Asn; Asn. Ment. Deficiency; Orthopsychiat. Asn. Child behavior and personality development; psychological counseling and consultation; interpersonal behavior and group dynamics. Publ: Community guidance services in local health departments & Psychological adjustment in a simulated fall-out shelter, Okla. J. Pub. Health; The effects of treatment on psychological functions in cardiovascular disease in the aged, Am. J. Geriat. Address: Suite 513, Webb Bldg, 4040 N. Fairfax Dr, Arlington, Va. 22203.

BOUTHILET, DR. LORRAINE, b. St. Paul, Minn, Nov. 7, 15. PSYCHOLOGY. A.B, Minnesota, 36; A.M, Chicago, 47, Ph.D.(psychol), 48. Asst. psychol, psychomet. lab, Chicago, 42-43, asst, univ, 43-45; managing ed, Am. Psychologist, Am. Psychol. Asn, 45-47; test dept, Sci. Res. Assocs, Ill, 47-48, coordinator res, 48-51; exec. secy. & asst. prof. psychol, Univ. Chicago, 48-51; managing ed, Am. Psychol. Asn, 51-57; chief sci. info. unit, psychopharmacol. serv. center, NAT. INST. MENT. HEALTH, 57-62, NAT. CLEARINGHOUSE FOR MENT. HEALTH INFO, 62-67, SCI. DIR, 67- Psychol. Asn; Document. Inst. Mental health; information science. Address: National Institute of Mental Health, Chevy Chase, Md. 20203.

BOUTON, LT. COL. ARTHUR GARBER, U.S.A, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

BOUVARD, DR. MARGUERITE, b. Trieste, Italy, Jan. 10, 37; U.S. citizen; m. 59; c. 2. POLITICAL SCIENCE. B.A, Northwestern, 58; M.A, Radcliffe Col, 60; Ph.D.(polit. sci), Harvard, 65. ASST. PROF. POLIT. SCI, REGIS COL.(MASS), 66- International relations and organization; governments of Eastern and Western Europe. Address: Dept. of Government, Regis College, Weston, Mass. 02193.

BOUVIER, EMILE, S.J. b. Montreal, Que, Mar. 29, 06. ECONOMICS. B.A, Boston Col, 28, M.A, 30; Ph.D, Georgetown, 32. Dir. indust. rels. sect, Montreal, 45-51; indust. rels. inst, Mexico, 52-55, lectr, 52; prof. labor econ. & indust. rels. & acting chmn. dept. econ, Georgetown, 55-60; pres, Laurentian Univ, 60-63; CHMN. DEPT. ECON, SHERBROOKE, 63- Dir. indust. res. center, Montreal, 52-60. Consult, Can. Indust. Asn, 43-50. Mem, Nat. Indust. Conf. Bd; Que. Manpower Cmt, 64-66; Superior Labor Coun, 66- Econ. Asn; Statist. Asn; Mgt. Asn. Labor economics; industrial relations; business administration. Publ: Introduction à l'Economie politique, Univ. Sherbrooke, 67; Guaranteed annual wage; Quebec system of labor relations. Address: Dept. of Economics, University of Sherbrooke, Sherbrooke, Que, Can.

BOUWMAN, DEAN CLARK H(ERBERT), b. Grand Rapids, Mich, July 26, 19; m. 43; c. 3. SOCIOLOGY, ANTHROPOLOGY. A.B, Kalamazoo Col, 41; B.S, Western Michigan, 46; Nat. Coun. Churches fel, Yale, 46-47; M.A, New Sch. Soc. Res, 49, Ph.D.(sociol), 59. Instr. sociol, Western Michigan, 47-48; asst. prof, Upsala Col, 49-54; assoc. prof. & chmn. dept, Ill. Wesleyan, 54-60; ASSOC. PROF. SOCIOL. & ANTHROP, FLA. PRESBY. COL, 60-, DEAN ACAD. SERV, 66- Summer lectr, Mex. City Col, 58. U.S. Merchant Marine, 41-45. Sociol. Asn; Soc. Appl. Anthrop; Soc. Study Social Probs; Soc. Sci. Study Relig. Minority group relations; anthropological film productions; development of field experience programs for undergraduate students in social work. Address: Dept. of Sociology, Florida Presbyterian College, St. Petersburg, Fla. 33733.

BOVARD, PROF. EVERETT W(ARNER), b. Port Chester, N.Y, Nov. 11, 16; m. 44; c. 3. PSYCHOLOGY. B.A, Columbia, 40, M.A, 47; fel, Michigan, 47-49, Ph.D.(psychol), 49. Res. assoc, Michigan, 49; lectr. psychol, Williams Col, 49-50; assoc. prof, Toronto, 50-56; Washington (St. Louis), 57-58; fel. neurophysiol, Montreal Neurol. Inst, 58-61; assoc. prof. neuroanat, Albert Einstein Col. Med, 61-67; PROF. PSYCHOL, QUEENSBOROUGH COMMUNITY COL, 67- Consult, Nat. Film Bd, Can, 54-56. R.C.A.F, 41-45. Fel. AAAS; fel. Psychol. Asn. Small groups; emotional stress; brain function. Publ: Concept of hypothalamic functioning & Balance between negative and positive brain system activity, Perspectives Biol. Med, 61, 62; Infancy: II. Effects of early experience, Int. Encyclop. Soc. Sci, 68. Address: 21 Woods Way, Larchmont, N.Y. 10538.

BOVEE, PROF. WARREN G(ILLES), Journalism, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BOVERMAN, DR. HAROLD, Psychiat, Pediat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BOVET, DR. ERIC D(AVID), b. Germany, July 23, 00; nat; m. 46; c. 4. ECONOMICS. B.A, Neuchâtel, 20; B.D, Lausanne, 25; M.S, Geneva, 27, Ph.D. (econ), 53. Res. technician, Nat. Resources Cmt, Wash, D.C, 35-37; statist. analyst, U.S. Dept. Navy, 41-47; admin. officer, res. & develop. bd, U.S. Dept. Defense, 47-50; indust. specialist, Nat. Prod. Authority, 51-53; prod. specialist, Signal Corps, U.S. Dept. Army, 54-55; develop. res. analyst, air res. & develop. command, U.S. Dept. Air Force, Md, 55-56; tech. adv. econ. & logistics, dep. chief Naval opers, U.S. Dept. Navy, 56-62; ECONOMIST, OFF. SALINE WATER, U.S. DEPT. INTERIOR, 62- Assoc. prof, Maryland, 67. Econ. Asn. Analysis of motivational factors in industry and business that contribute to the generation of business cycles, unemployment and related forms of economic waste. Publ: L'organisation rationnelle de la distribution, moyen de stabilisation économique, Neuchâtel, Delachaux et Niestle, 54; The dynamics of business motivation: its impact on the economic climate, Spartan, 63. Address: 1112 Custis St, Alexandria, Va. 22308.

BOWDEN, DR. ELBERT V(ICTOR), b. Wilmington, N.C, Nov. 25, 24; m. 47, 51; c. 6. ECONOMICS. B.A, Connecticut, 50; M.A, Duke, 52, Ph.D.(econ), 57. Instr. econ, Duke, 52-53, 55-56; res. assoc, bur. bus. res, Kentucky, 53-55; assoc. prof. econ, Norfolk Col. William & Mary, 56-58, prof, 58-63, chmn. dept, 58-62; prof, Elmira Col, 63-64; exec. dir. regional develop, Upper Peninsula Cmt. Area Progress, Mich, 64-66; chief economist & chief mission, U.S. Trust Territory of Pac. Islands, Robert R. Nathan Assoc, Inc, Econ. Consult, 66-67; ASSOC. PROF. ECON. & RES. ECONOMIST, TEXAS A&M, 67- Summer econ, adv. to high cmnr. of U.S. Trust Territory, 67. U.S. Merchant Marine, 43-46. Econ. Asn; Regional Sci. Asn. Economic development; regional analysis; location theory; development planning and implementation; managerial economics; administration. Publ: Co-auth, Economics, Alexander Hamilton Inst, 60, rev. 68; Development opportunities for Virginia's eastern shore, Area Redevelop. Admin, U.S. Dept. Commerce, 63; prin. auth, Economic development plan for the trust territory of the Pacific Islands, 67. Address: Dept. of Economics, Texas A&M University, College Station, Tex. 77843.

BOWDEN, DR. LEONARD WALTER, b. Haxtun, Colo, Feb. 28, 33; m. 52; c. 3. GEOGRAPHY. B.A, Colorado, 54, M.A, 61; Ph.D.(geog), Clark, 64. Instr. GEOG, R.I. Col, 62-63; ASST. PROF, Southern California, 63-64; CALIFORNIA, RIVERSIDE, 64- Consult, Off. Naval Res, 66-67; TRW Systs, 67- U.S.A.F, 54-59, Capt. AAAS; Asn. Am. Geog. Remote sensing of the environment; water resources management; urban geography. Publ: Diffusion of the decision to irrigate, Univ. Chicago, 65; Remote sensing of the world's arid lands, Int. Geog. Union/UNESCO, 68; Remote sensing of the urban landscape, 5th Symp. Remote Sensing, Univ. Michigan, 68. Address: Dept. of Geography, University of California, Riverside, Calif. 92502.

BOWDEN, DR. WITT, Labor Econ, Econ. Hist, see 10th ed, Soc. & Behav. Vols.

BOWDERY, DR. BARBARA, b. Chicago, Ill, Mar. 30, 18; wid; c. 1. SOCIOLOGY. B.A, N.Cent. Col.(Ill), 39; scholar, fel. & M.A, Illinois, 40; Ph.D. (sociol), Columbia, 51. Pub. opinion analyst, U.S. Govt, D.C, 42; instr. SOCIOL, Adelphi, 48-49; MEM. FACULTY, SHIMER COL, 64- Sociol. Asn. Sociological theory; urban and political sociology. Address: 515 S. Clay St, Mt. Carroll, Ill. 61053.

BOWEN, C(HARLES) T(HOMAS) G(EORGE), b. Chicago, Ill, June 20, 25; m. 52; c. 1. ECONOMICS. B.S, Bradley, 51, M.A, 52; cert. elem. ed. & supv, Colorado, 63. Instr. econ, Bradley, 51-52; exec. trainee, City Nat. Bank & Trust Co, Chicago, 52-55; supt. & prin, Literberry Consol. Sch. Dist. 3, 55-58; TEACHER MATH. & CHMN. DEPT. SOC. SCI, TURNER SCH, 58- U.S.N, 43-46. Econ. Asn; Econ. Hist. Asn; Acad. Polit. & Soc. Sci. Latin American economic, social and historical development; school administration; economic dependence of public schools on federal aid. Address: 324 E. Beecher Ave, Jacksonville, Ill. 62650.

BOWEN, DR. DON L(ESLIE), b. Spanish Fork, Utah, Apr. 16, 22; m. 44; c. 2. POLITICAL SCIENCE. B.S, Utah State, 44; M.S, Denver, 45; D.S.S, Syracuse, 49. Exec. secy, Jasper County Tax Econ. Asn, Mo, 44-45; instr. govt, Oklahoma, 45-48, assoc. prof, 48-49; from acting dir. to dir. res, State Legis. Coun, Okla, 49-51; exec. secy. to congressman John Jarman, 51-53; assoc. prof. govt. & politics & dir. bur. govt. res, Maryland, 53-56; from asst. dir. to assoc. dir, AM. SOC. PUB. ADMIN, 56-62, EXEC. DIR, 62- Lectr, U.S. Dept. Agr. Grad. Sch, 52; Chicago, 47; Cornell, 48; vis. prof, Utah State, 58. Consult, State Personnel Bd, Okla, 50; State Dept. Health, Md, 52; U.S. Off. Ed, 60. Soc. Pub. Admin; Polit. Sci. Asn. Public administration; legislation; state and local government. Publ: Co-ed, Administrative leadership in government: selected papers; Program formulation and development: the role of the government executive; Methods and goals in public management. Address: American Society for Public Administration, 1225 Connecticut Ave. N.W, Washington, D.C. 20036.

BOWEN, DR. DON RAMSEY, b. Joplin, Mo, Oct. 25, 37; m. 64; c. 1. POLITICAL SCIENCE. B.A, Kansas, 59; Woodrow Wilson fel. & M.A, Chicago, 60; univ. fel. & Ph.D.(polit. sci), Yale, 65. Instr. POLIT. SCI, CASE WESTERN RESERVE, 63-64, asst. prof, 64-67, ASSOC. PROF, 68-, Nat. Sci. Found. summer faculty res. fel, 65. Co-investr, Greater Cleveland Assoc. Found. res. grant, 67-68; fel, Civil Violence Res. Center, Cleveland, 68- Consult, Cleveland Welfare Fedn, 64; President's Cmn. Civil Disorder, 67. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Political and judicial behavior; political theory and methodology; civil violence and disorder. Publ: Political behavior of the American public, C.E. Merrill, 68; co-auth, Riots and civil disorder in urban America, Sage Pub, 68; auth, The sociological explanation of judicial voting behavior, In: The Supreme Court, Oxford Univ, 68. Address: Dept. of Political Science, Case Western Reserve University, Cleveland, Ohio 44106.

BOWEN, PROF. EARL K(ENNETH), b. Colonie, N.Y, Nov. 13, 18; m. 42; c. 2. MATHEMATICS, STATISTICS. B.S, Massachusetts, 40; A.M, Boston, 42. Instr. math, Northeastern, 40-44; field serv. consult, Off. Sci. Res. & Develop, 44-45; CHMN. DEPT. MATH. & STATIST, BABSON INST, 46-, PROF, 62- Staff mem. & consult, opers. res. off, Hopkins, 51-52; Ford Found. seminar grant, Chicago, summer, 64. Statist. Asn; Inst. Math. Statist; Inst. Mgt. Sci; Asn. Computing Mach. Business research; operations research. Publ: Statistics: with applications in management and economics; Mathematics, with applications in management and economics, Irwin, 64, 2nd ed, 67; co-auth, Economic effects of U.S. grades of beef. Address: 246 Union St, Norwood, Mass. 02062.

BOWEN, PRES. HOWARD R(OTHMANN), b. Spokane, Wash, Oct. 27, 08; m. 35; c. 2. ECONOMICS. A.B, State Col. Wash, 29, A.M, 33; fel, Iowa, 33-35, Ph.D.(econ), 35; hon. LL.D, Cornell Col, 56, Knox Col.(Ill), 64; L.H.D, Loras Col, 64; Litt.D, Grinnell Col, 64; D.H, Coe Col, 65. Instr. econ, Iowa, 35-37, asst. prof, 37-42, assoc. prof, 42; chief bus. structure unit, U.S. Dept. Commerce, 42-44; chief economist, joint cmt. internal revenue taxation, U.S. Cong, 44-45; economist, Irving Trust Co, N.Y, 45-47; dean col. commerce, Illinois, 47-52; prof. econ, Williams Col, 52-55; PRES, Grinnell Col, 55-64; IOWA, 64- Soc. Sci. Res. Coun. fel, Cambridge, 37-38. Consult, Nat. Coun. Churches, 49-53; Cmt. Econ. Develop, 55-59. Trustee, Nat. Opinion Res. Center, 58-60; Inst. Col. & Univ. Adminstr, 60-65; Col. Retirement Equities Fund, 61-64, 67-; Joint Coun. Econ. Ed, 64-; Harry S. Truman Inst, 64-; Midwest Res. Inst, 65-; LeMoyne Col, Tenn, 66-; Argonne Univs. Asn, 66-, chmn, 67- Chmn. cmt. bus. res, Soc. Sci. Res. Coun, 54-56; mem. fed. adv. cmt. intergovt. rels, Brookings Instn, 61-64; mem. bd. cmnrs, Nat. Cmn. Accrediting, 64-; Africa Liaison cmt, Am. Coun. Ed, 64-67, mem. cmn. plans & objectives higher ed, 65-, chmn, 66; chmn, Nat. Cmn. Tech, Automation & Econ. Prog, 66-67; mem. adv. cmt. grad. ed, U.S. Off. Ed, 66-; Midwest Regional Cmt. Marshall Scholarships, 66-; Ed. Cmn. of the States, 66-; bd. dirs, Bankers Life Co, 66- Econ. Asn; Finance Asn.(pres. 50); Royal Econ. Soc. Economic theory; public finance; industrial organization. Publ: Toward social economy; Social responsibilities of the businessman; co-auth, Automation and economic progress, Prentice-Hall, 67. Address: University of Iowa, Iowa City, Iowa 52240.

BOWEN, PROF. JOHN HAYNES, b. Little Rock, Ark, Aug. 30, 26. PSYCHOLOGY. B.A, Arkansas, 49, Ordark fel, 49-50, M.A, 50; Ph.D, Maryland, 54. Instr. psychol, Arkansas, 50-51; asst, Maryland, 51-54; instr, Muhlenberg Col, 54-55; res. eng. psychologist, U.S. Naval Res. Lab, 55-58; Wright-Patterson Air Force Base, 58-60; asst. prof. PSYCHOL, Kent State, 60-62; ASSOC. PROF. Rensselaer Polytech, 62-63; STATE UNIV. N.Y. ALBANY, 63-, Res. Found. summer fel, 64. Consult, Wash. Off, Syracuse Univ, 52-53. U.S.A, 44-45. Psychol. Asn. Engineering psychology; verbal clustering; mathematical models for behavior; psychological statistics and verbal-motor skills. Publ: Effects of counting and ordering habits on the acquisition of a simple motor skill, J.Exp. Psychol; Note on the interaction of conditioned and reactive inhibition, J. Gen. Psychol; Comparison of zero-order and fourth-order aided compensatory systems as a function of course frequency. Address: Dept. of Psychology, State University of New York at Albany, Albany, N.Y. 12203.

BOWEN, DR. WILLIAM G(ORDON), b. Cincinnati, Ohio, Oct. 6, 33; m. 56; c. 1. ECONOMICS. B.A, Denison, 55; Danforth, Wilson & Woodland Found. fels. & Ph.D.(econ), Princeton, 58. Asst. prof. econ, PRINCETON, 58-61, assoc. prof. ECON, 61-65, PROF, 65-, FACULTY ASSOC, INDUST. RELS. SECT, 61-, PROVOST, 67-, dir. grad. studies, Woodrow Wilson Sch. Pub. & Int. Affairs, 64-66. Soc. Sci. Res. Coun. faculty res. fel, 61-62. Consult, Cmn. Money & Credit, 61; Coun. Econ. Adv; U.S. Off. Ed. Trustee, Denison. Econ. Asn. General economics; economics of labor and education; stabilization problems and policies. Publ: The wage-price issue: a theoretical analysis, 60 & Economic aspects of education: three essays, 64, Princeton Univ; co-auth, Performing arts: the economic dilemma, 20th Century, 66. Address: Princeton University, 3 Nassau Hall, Princeton, N.J. 08540.

BOWER, DR. ELI MICHAEL, b. New York, N.Y, Oct. 6, 17; m. 48; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, N.Y. Univ, 37, M.A, Columbia, 47; summers, California, Los Angeles, 47-48; Ed.D, Stanford, 54. Teacher, Hawthorne Cedar Knolls Sch, N.Y, 40-42; photogrammetric engr, U.S. Coast & Geod. Surv, 42-43; teacher & counsr, high sch, N.Y, 46-47; Coalinga High Sch. & Jr. Col, 47-48; consult. psychologist, Tulare County Schs, Calif, 48-50; consult. ed. ment. retarded, State Dept. Ed, Calif, 50-57, res. coordinator emotionally disturbed children, 57-60, dep. dir. liaison & prev. serv, State Dept. Ment. Hyg, Calif, 60-62; CONSULT. MENT. HEALTH IN ED, NAT. INST. MENT. HEALTH, 62- Spec. consult, Nat. Inst. Ment. Health, 56-57, 59-60, mem. ment. health proj. grants rev. cmt, 61-; tech. consult, White House Conf. Children & Youth, 60. U.S.N, 43-46; U.S.P.H.S.R, 60-, Lt. Fel. Psychol. Asn; fel. Orthopsychiat. Asn; fel. Asn. Ment. Deficiency; Coun. Except. Children. Personality development; strengthening emotional resources of children and adults. Publ: Co-auth, Behavioral science frontiers in education, Wiley, 67; Primary prevention in a school setting; Primary prevention of mental and emotional disorders. Address: Division of Special Mental Health Programs, National Institute of Mental Health, 5454 Wisconsin Ave, Chevy Chase, Md. 20203.

BOWER, PROF. GORDON H(OWARD), b. Scio, Ohio, Dec. 30, 32; m. 57; c. 1. PSYCHOLOGY. B.A, Western Reserve, 54; Woodrow Wilson fel, Minnesota, 54-55; M.S, Yale, 56, Soc. Sci. Res. Coun. fel, 57, U.S. Pub. Health Serv. fel, 58-59, Ph.D.(psychol), 59. Asst. PSYCHOL, Yale, 55-58; from asst. prof. to PROF, STANFORD, 59- Psychol. Asn; Psychonomic Soc; Psychomet. Soc. Behavior theory; mathematical learning theory. Publ: Introduction to mathematical learning theory, Wiley, 65; Theories of learning, Appleton, 66; Attention in learning, Wiley, 68. Address: Dept. of Psychology, Stanford University, Stanford, Calif. 94305.

BOWER, PROF. JAMES BEARDSLEY, b. Whitewater, Wis, Dec. 30, 21; m. 43; c. 3. ACCOUNTING, MANAGEMENT. B.E, Wis. State, Whitewater, 43; M.S, Wisconsin, 47, Ford Found. fel, 55-56; Ph.D.(bus. admin), Texas, 60. Instr. BUS, WISCONSIN, 47-50, asst. prof, 50-57, assoc. prof, 57-62, PROF, 62-, CHMN. DEPT, 66- Trustee, Carthage Col, 67- Qm.C, U.S.A, 43-46, Lt. Col. Am. Acct. Asn.(v.pres, 66-67); Am. Inst. Cert. Pub. Acct; Nat. Asn. Acct. Managerial techniques; systems; taxation. Publ: Co-auth, Income tax procedure, South-Western Pub, annually, 58-, Financial information systems: theory and practice, Allyn & Bacon, 68 & Financial information sys-

tems; selected readings, Houghton, 68. Address: Graduate School of Business, Room 316, Commerce Bldg, University of Wisconsin, Madison, Wis. 53706.

BOWER, PROF. RICHARD S(TUART), b. New York, N.Y, Aug. 1, 28; m. 53; c. 3. ECONOMICS. A.B, Kenyon Col, 49; M.B.A, Columbia, 55; Ford fel. & Ph.D.(managerial econ), Cornell, 62. Instr. econ, Kenyon Col, 49-50; bus. & econ, Alfred, 55-57; asst. prof. econ. & bus. admin, Vanderbilt, 59-62; assoc. prof. BUS. ECON, AMOS TUCK SCH. BUS. ADMIN, DARTMOUTH COL, 62-67, PROF, 67- U.S.N, 51-55, Res, 55-, Lt. Econ. Asn; Finance Asn. Business, financial and investment behavior. Publ: A language for the aid of financial fact finding, Amos Tuck Sch, 67; Finance linkage and capital budgeting, Eng. Economist; Decreasing marginal cost in brick production, J. Indust. Econ, 11/64. Address: 2 Weatherby Terr, Hanover, N.H. 03755.

BOWER, ROBERT S(HARON), b. Salt Lake City, Utah, May 14, 07; m. 35; c. 2. ECONOMICS, HISTORY. B.A, Stanford, 29; Idaho, 37-38; Indust. Col. Armed Forces, 52; M.A, Claremont Col, 60. Acct. mgr, Montross-Boyd Corp, Calif, 29-34; ed. adv, U.S. Off. Ed, 38-40; instr. polit. sci, San Bernardino Valley Col, 59-60; asst. prof. econ. & bus, California Western, 60-63; WRITING & RES, 63- U.S.A.R, 28-47; U.S.A.F, 47-58, Col. History of economic thought; United States and China twentieth century, domestic and international; financial, economic, managerial and current affairs indicators. Publ: Army purchasing: a review of laws and regulations, Qm. Rev. Address: 802 Jennings Place, San Diego, Calif. 92106.

BOWER, DR. ROBERT T(URRELL), b. Yonkers, N.Y, June 1, 19; div; c. 1. SOCIOLOGY. B.A, Yale, 41; Ph.D.(sociol), Columbia, 54. Res. assoc, bur. appl. soc. res, Columbia, 48-49, lectr. sociol, 48; asst. prof, American Univ, 49-53, assoc. prof, 53-56; DIR, BUR. SOC. SCI. RES, INC, 50- Consult. sociologist, 50-55; UNESCO lectr, India, 52-53; adj. prof, American Univ, 56- Mem, Nat. Coun. Humanities, 66-72. NAC, 42-45. Fel. AAAS; fel. Sociol. Asn; Am. Asn. Pub. Opinion Res; World Asn. Pub. Opinion Res.(secy-treas, 52-). Communication; political sociology; race relations. Publ: Public opinion polls and the politician; Opinion research and historical interpretation of elections; Translation problems in international surveys. Address: Bureau of Social Science Research, 1200 17th St. N.W, Washington, D.C. 20036.

BOWER, DR. ROSE JANET, b. Pittsburgh, Pa, Mar. 13, 19. PSYCHOLOGY, EDUCATION. B.A, Waynesburg Col, 41; M.A, Chicago, 50, Cmt. Human Develop. fel. & Ph.D.(human develop), 53. Head dept. psychol. & dir. testing, Centenary Col. Women, 55-58; dir. res. proj, Nat. Conf. Cath. Charities, 58-59; res. assoc. ED, Bank St. Col, 59-61; ASSOC. PROF, JERSEY CITY STATE COL, 61- Vis. assoc. prof, Southern California, 66-67. Psychol. Asn; Soc. Psychol. Study Social Issues. Aging; classroom problems in urban education. Publ: Co-auth, Meaning of work and retirement. Address: 136 Hicks St, Brooklyn, N.Y. 11201.

BOWER, DR. THOMAS GILLIE RUSSELL, b. Dunfermline, Scotland, Dec. 24, 41; m. 61; c. 2. PSYCHOLOGY. M.A, Edinburgh, 63; Ph.D.(psychol), Cornell, 65. ASST. PROF. PSYCHOL, HARVARD, 65- Perception; human development; ethology. Publ: The development of object permanence, Perception Psychophys, 9/67. Address: Dept. of Psychology, Harvard University, 33 Kirkland St, Cambridge, Mass. 02138.

BOWERS, PROF. ALFRED W(ILLIAM), b. Sandford, N.S, June 1, 01; nat; m. 39; c. 2. ANTHROPOLOGY. B.S, Beloit Col, 28; A.M, Chicago, 29, Ph.D. (anthrop), 48. Asst, Beloit Col, 29-32; anthrop, Chicago, 32-34, 38-40, 46-49; U.S. Dept. Agr, 34-38, 40-43; from assoc. prof. to PROF. ANTHROP. & SOCIOL, IDAHO, 49- Fel. Anthrop. Asn; Soc. Am. Archaeol. Mandan and Hidatsa archaeology and culture; Mimbres culture of New Mexico; Coeur d'Alene and Nez Perce community studies. Address: Dept. of Social Sciences, University of Idaho, Moscow, Idaho 83843.

BOWERS, DR. DAVID A, b. Alice, Tex, June 10, 34; m. 56; c. 3. ECONOMICS. B.B.A, Texas A&M, 56; M.A, Tulane, 58; Ph.D.(econ), Southern Methodist, 63. Res. analyst, Am. Bankers Asn, 57-58; opers. res. engr, Ling-Temco-Vought, Inc, 58-59; asst. v.pres. & economist, Bowery Savings Bank, 62-65; ASST. PROF. ECON, CASE WESTERN RESERVE, 65- Econ. Asn; Statist. Asn; Finance Asn. Government securities markets; term structure of interest rates; money and banking; macroeconomics. Publ: On maturity measures of the public debt: comment, Quart. J. Econ, 5/65; co-auth, The liquidity impact of debt management, South. Econ. J, 4/68 & Estimation in a heteroscedastic regression model, J. Am. Statist. Asn, 6/68. Address: Dept. of Economics, Case Western Reserve University, Cleveland, Ohio 44106.

BOWERS, PROF. EDISON L(OUIS), b. Massillon, Ohio, May 24, 98; m. 22. ECONOMICS. A.B, Heidelberg Col, 22, hon. L.H.D, 50; M.A, Ohio State, 23, Ph.D.(econ), 28. Instr. ECON, OHIO STATE, 25-28, asst. prof, 28-32, assoc. prof, 32-41, PROF, 41-, chmn. dept, 41-63. Soc. Sci. Res. Coun. fel, 30-31. Mem. admin. bd, S.S. Huebner Found. Ins. Ed, 50-; trustee, Am. Inst. Property & Liability Underwriters, 42- Pub. mem, War Labor Bd, 43-45. U.S.A, 18. Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn. Social insurance; economic theory; commercial insurance. Publ: Co-auth, Financing unemployment compensation; Is it safe to work?; joint ed, The Irwin series in insurance. Address: 1702 Cardiff Rd, Columbus, Ohio 43221.

BOWERS, DR. E(LSWORTH) V(ACHEL), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

BOWERS, DR. KENNETH SCHUYLER, b. Chicago, Ill, Sept. 20, 37; m. 62; c. 3. PSYCHOLOGY. B.A, Illinois, 59, Ph.D.(psychol), 64. Asst. prof. PSYCHOL, WATERLOO, 64-68, ASSOC. PROF, 68- Med. Res. Coun. Can. & Ont. Ment. Health Found. res. grants, 66- Psychol. Asn. Experimental hypnosis; creativity; consciousness and cognitive processes; philosophy of science. Address: Dept. of Psychology, University of Waterloo, Waterloo, Ont, Can.

BOWERS, PROF. MELBA PHILLIPS, b. Cincinnati, Ohio, Apr. 29, 08; m. 37. HISTORY. A.B, Cincinnati, 31, M.A, 39. Munic. reference librn, CINCINNATI, 31-45, instr. soc. sci, 39-55, asst. prof, 55-64, chmn. soc. sci. for group V, McMicken Col. Arts & Sci, 49-64, ASSOC. PROF. HIST, 64- Address: Dept. of History, University of Cincinnati, Cincinnati, Ohio 45221.

BOWERS, PROF. NEAL M(ONROE), Geog, see 11th ed, Phys. & Biol. Vols.

BOWERS, PROF. NORMAN DALE, b. Toledo, Ohio, Sept. 23, 27; m. 54; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, DePauw, 47; M.A, Minnesota, 51, Ph.D, 55. Res. psychologist, Sch. Aviation Med, Fla, 53-55; asst. prof. ed, San Jose State Col, 55-57; dir. teacher ed, Vanderbilt, 57-60; dir. exp. prog. ed, North Carolina, 60-62; PROF. ED, NORTHWESTERN, 62- U.S.N, 53-55, Lt. Ed. Res. Asn; Psychol. Asn. Education; teacher characteristics; teaching methods; measurement of teacher attitudes and classroom climate. Publ: Studies of human relations in the teaching learning process. Address: School of Education, Northwestern University, Evanston, Ill. 60201.

BOWERS, PROF. RAYMOND V(ICTOR), b. Victoria, B.C, Can, June 19, 07; m. 33; c. 2. SOCIOLOGY. A.B, Kansas, 27; M.A, Northwestern, 30; Ph.D. (sociol), Minnesota, 34. Instr. sociol, Minnesota, 30-34; Soc. Sci. Res. Coun. fel, Yale, 34-35; asst. prof. sociol. & chmn, Rochester, 35-42; asst. chief & chief res. & statist. div, Selective Serv. Syst, D.C, 42-47; dep. exec. dir. & exec. dir. Cmt. Human Resources, Res. & Develop. Bd, 47-49; dir. human resources res. inst, Maxwell Air Force Base, Ala, 49-52; tech. adv. soc. sci, Hqs, Air Res. & Develop. Command, 52-55; dir. off. soc. sci. progs, Air Force Personnel & Training Res. Center, Randolph Air Force Base, Tex, 55-57, tech. dir, 58; prof. sociol. & anthrop, head dept, chmn. div. soc. scis. & dir. soc. sci. res. inst, Georgia, 58-62; PROF. SOCIOL. & HEAD DEPT, ARIZONA, 62- Res. leader morale div, U.S. Strategic Bombing Surv, Japan, 45-46. Expert. consult, gen. hqs, Supreme Comdr. Allied Powers, Japan, 46-47; consult, proj. East River, Associated Univs, Inc, 52; Bell Syst. Exec. Conf, 53-54; Soc. Security Admin, 60. U.S.N.R, 44-46; U.S.A.F.R, 51-. Col. Fel. AAAS; fel. Sociol. Asn; Sociol Res. Asn; Statist. Asn. Research administration; methods; complex organizations. Publ: Ed. & contrib, Studies in organizational effectiveness, Air Force Off. Sci. Res, Wash, D.C, 62 & Studies on behavior in organizations, Univ. Ga, 66; Military establishment. In: The uses of sociology, Basic Books, 67. Address: Dept. of Sociology. University of Arizona, Tucson, Ariz. 85721.

BOWERS, PROF. ROBERT S(COTT), b. Fairmont, W.Va, Aug. 10, 11; m. 51; c. 2. ECONOMICS. B.A, Kansas Wesleyan, 33; M.A, American Univ, 38; Ph.D.(econ), Wisconsin, 51. Instr. ECON, WESTERN MICHIGAN, 37-39, asst. prof, 40-45, assoc. prof, 46-50, PROF, 51-, HEAD DEPT, 59- Econ. Asn; Indust. Rels. Res. Asn. Labor economics; arbitration. Address: Dept. of Economics, Western Michigan University, Kalamazoo, Mich. 49001.

BOWERS, DEAN ROYAL HULEH, b. Ashland, Okla, July 21, 14; m. 39; c. 1. PSYCHOLOGY. B.A, Cent. State Col.(Okla), 50; Ed.M, Oklahoma, 51; Ed.D. (psychol), Okla. State, 56. Counsr. men, Harding Col, 51-53; asst, Okla. State, 54-56; dean, York Col, 56-58; assoc. prof. psychol, Nebr. State Teachers Col.(Kearney), 58-59; dir. counseling serv, Okla. State, 59-63; PROF. PSYCHOL. & DEAN INSTR, PANHANDLE STATE COL, 63- AAAS: Psychol. Asn; Personnel & Guid. Asn. Counseling; guidance; educational measurement. Address: Dept. of Psychology, Panhandle State College, Goodwell, Okla. 73939.

BOWIE, DR. CAROL COTTON, Psychol, see 10th ed, Soc. & Behav. Vols.

BOWIE, PROF. ROBERT RICHARDSON, b. Baltimore, Md, Aug. 24, 09; m. 44; c. 2. POLITICAL SCIENCE, LAW. A.B, Princeton, 31; LL.B, Harvard, 34. Mem. firm, Bowie & Burke, Baltimore, 34-42; prof. law, HARVARD, 45-55, CLARENCE DILLON PROF. INT. AFFAIRS & DIR. CENTER INT. AFFAIRS, 57- Reporter, Cmn. Civil Proc, Md, 39-41; asst. dir, Legis. Coun, Md, 40-41; asst. attorney gen, Md, 41-42; dir, Cmn. Re-Orgn. Fed. Govt, 48; spec. adv, U.S. High Cmnr, Germany, 50-51; dir, policy planning staff, U.S. Dept. State, 53-55, Asst. Secy. State, 55-57, counsr, Dept. State, 66-68. Trustee, Inst. Defense Anal; mem, For. Asn-World Affairs Center; mem, Coun. For. Rels. U.S.A, 42-46, Col. Am. Acad. Arts & Sci; Bar Asn; Acad. Polit. & Soc. Sci. International affairs. Publ: Co-auth, Studies in Federalism; contrib, Federalism, mature and emergent. Address: Center for International Affairs, Harvard University, Cambridge, Mass. 02138.

BOWLBY, DR. ROGER L(OUIS), b. Ovid, Mich, Oct. 22, 29; m. 53; c. 1. ECONOMICS. B.A, Mich. State, 50, M.A, 51; fel, Texas, 51-53, Ph.D.(econ), 58; London Sch. Econ, 55-56. Asst. econ, Mich. State, 50-51; instr, Texas, 56-57; Iowa State, 57-58; asst. prof, bur. bus. & econ. res. & labor & indust. rel. center, Mich. State, 58-63; labor economist, U.S. Dept. Labor, 63-65; ASSOC. PROF. ECON, TENNESSEE, 65- Instr, Univ. Maryland Overseas Prog, Eng, 56. Consult, Mich. Employ. Security Cmn, 61-62. U.S.A, 53-55. Econ. Asn; Indust. Rel. Res. Asn; Asn. Evolutionary Econ. Labor economics, law and history; manpower problems; social security. Publ: Statutory regulation of minimum wages in Great Britain. Address: Dept. of Economics, University of Tennessee, Knoxville, Tenn. 37916.

BOWLES, DR. GEORGE KENNETH, b. Perry, N.Y, July 17, 06; m. 28; c. 3. COUNSELING & CLINICAL PSYCHOLOGY. B.S, St. Lawrence, 29, M.A, 34; Columbia, 39-40; Ed.D.(counseling psychol), Boston, 57. Chemist, Aluminum Co. Am, N.Y, 29-30; teacher, Pyrites High Sch, N.Y, 30-31, pub. sch, 33-34; psychologist, Wassaic State Sch, 36-42; chief rehab. & eval, Vet. Admin. & Cushing Gen. Hosps, Framingham, Mass, 46-52; psychologist, VET. ADMIN. HOSP, West Roxbury, MASS, 52-54, COUNSELING PSYCHOLOGIST, BEDFORD, 54- U.S.A, 42-47, Res, 47-61, Capt. Psychol. Asn; Asn. Ment. Deficiency; Personnel & Guid. Asn; Rehab. Asn. Development and evaluation of the Bedford clinical rating scale; motivation evaluations by means of sentence completion tests. Publ: Work furlough program for patients with perelferial nerve injuries, U.S. Army Bull. Address: Veterans Administration Hospital, 200 Springs Rd, Bedford, Mass. 01730.

BOWLES, PROF. GORDON T(OWNSEND), b. Tokyo, Japan, June 25, 04; m. 32; c. 2. ANTHROPOLOGY. A.B, Earlham Col, 25; Pennsylvania, 27-28; Ph.D. (anthrop), Harvard, 35. Asst. anthrop, Harvard, 32-35, res. assoc, 35-38; asst. prof, Hawaii, 38-42; mem, Govt. Mission to China, 42; res. assoc.

phys. anthrop, Bishop Mus, Honolulu, 38-42; For. Econ. Admin. & U.S. Dept. State, 42-47; exec. secy, Conf. Bd. Assoc. Res. Couns, Cmt. Int. Exchange of Persons, 47-51; vis. prof. ANTHROP, Tokyo, 51-58; Columbia, 59-60; SYRACUSE, 60-62, PROF, 62- Assoc. managing dir, Int. House of Japan, 53-58; Fulbright-Hays lectr, Japan, 67-68. AAAS; fel. Anthrop. Asn; Asn. Phys. Anthrop; Asn. Asian Studies; hon. life mem. Japanese Soc. Ethnol. Races and cultures of Asia; influences of environment on physique; relation of form to function in the human skelton; interralationships between biological and social factors. Publ: New types of old Americans at Harvard and eastern womens colleges; co-ed, Fact and theory in social science, Syracuse Univ. Press, 64. Address: Dept. of Anthropology, Syracuse University, Syracuse, N.Y. 13210.

BOWLES, DR. J. W, b. Arnett, Okla, Feb. 7, 19; m. 39; c. 2. PSYCHOLOGY. A.B, Friends, 41; M.A, Indiana, 43, Ph.D.(psychol), 52. Psychol. exam, Wichita Guid. Center, 46-47; asst. prof. psychol, Wichita, 47-49; instr, Kansas, 49-50; Indiana, 50-51; res. scientist, PERSONNEL RES. LAB, LACKLAND AIR FORCE BASE, 52-54, chief opers. off, 54-67, TECH. DIR, 67- Psychol. Asn. Physiological psychology, particularly electromyography and personnel measurement. Publ: Co-auth, Empirical foundations of psychology; Reversibility of stimulus function under hypnosis, J. Psychol; auth, Muscular action potential study of conflict. Address: Personnel Research Lab, Aerospace Medical Division, Air Force Systems Command, Box 1557, Lackland Air Force Base, Tex. 78236.

BOWLES, DR. ROY T, b. Idaho Falls, Idaho, July 29, 35; m. 54; c. 4. SOCIOLOGY. B.S, Brigham Young, 59; Nat. Defense fel. & Ph.D.(sociol), Oregon, 65. Asst. prof. sociol. Tex. Tech. Col, 62-65; res. assoc. ed, WASHINGTON STATE, 65-66, asst. prof. sociol. & ed, 66-67, ASST. PROF. SOCIOL. & ASST. RURAL SOCIOLOGIST, 67- U.S.A, 54-56. Sociol. Asn. Public opinion; sociology of religion; educational and occupational choice. Address: Dept. of Sociology, Washington State University, Pullman, Wash. 99163.

BOWLES, DEAN W(ALTER) DONALD, b. Seattle, Wash, Dec. 28, 23; m. 55; c. 2. ECONOMICS. B.A, Washington (Seattle), 49; M.A. & cert, Columbia, 52, Ph.D, 58; fel, Air Univ, 55-57. Instr. ECON, AMERICAN UNIV, 57-58, asst. prof, 58-61, assoc. prof, 61-64, PROF, 64-, DEAN COL. ARTS & SCI, 65-, acting chmn. dept, 61-62, chmn, 62-65. Dir. seminar, Indust. Col. Armed Forces, 62, 63 & 65; field supvr, African seminar, American Univ, 64; lectr, for. serv. inst. U.S. Dept. State, 66; summers, grant, 63, lectr, Hofstra, 64. Mem. bd. dirs, Nat. Inst. Labor Ed, 65- U.S.A, 43-46, Res, 49-57, 2nd Lt. Econ. Asn; Asn. Adv. Slavic Studies; Asn. Comp. Econ. Soviet resource management; Soviet Union as an economic model for underdeveloped areas; comparative economic development; academic administration. Publ: Soviet Russia as a model for underdeveloped areas, World Polit, 4/62; Soviet timber-two steps forward, one step back, Soviet Studies, 4/65; Cost-price factors and the location of Soviet industry, Int. Econ. Rev, 68. Address: College of Arts & Sciences, The American University, Washington, D.C. 20016.

BOWLIN, PROF. OSWALD D(ONIECE), b. Amarillo, Tex, Oct. 8, 28; m. 53; c. 2. FINANCE. B.A, Agr. & Mech. Col, Tex, 51, M.S, 54; Ph.D.(econ), Illinois, 59. Asst. prof. finance, Pa. State, 58-61; assoc. prof. bus. admin, Kansas State, 61-65; PROF. FINANCE, TEX. TECH. COL, 65- Consult, Small Bus. Admin, Temple. U.S.A, 51-53, 2nd Lt. Econ. Asn; Finance Asn. Financing, control and investments of business firms. Publ: The current ratio in current position analysis, Financial Analysts J, 3-4/63; Private business and industrial aid bonds, Atlantic Econ. Rev, 6/63; The refunding decision: another special case in capital budgeting, J. Finance, 3/66. Address: Dept. of Finance, Texas Technological College, Lubbock, Tex. 79409.

BOWLUS, PROF. DONALD R(ICHARD), Psychol, see 10th ed, Soc. & Behav. Vols.

BOWMAN, PROF. A(RTHUR) CHESLEY, b. Belton, Tex, Feb. 3, 11; m. 40. ECONOMICS. B.A, Texas, 35, M.A, 41, Ph.D.(econ), 55. Instr. soc. sci. & math, Tex. Mil. Inst, 39-55; from asst. prof. to PROF. ECON. & GOVT, SAN ANTONIO COL, 55- Minnie Stevens Piper Found. grant & Piper prof, 65- AAAS; Econ. Asn; Acad. Polit. & Soc. Sci. Agricultural and public utility economics; economics of water utilization. Address: 120 Moss Dr, San Antonio, Tex. 78213.

BOWMAN, PROF. CLAUDE C(HARLTON), b. Harrisburg, Pa, Sept. 13, 08. SOCIOLOGY. A.B, Dickinson Col, 28; A.M, Kansas, 30; Harvard, 32; Chicago, 34; Ph.D, Pennsylvania, 37. Instr. SOCIOL, TEMPLE, 30-37, asst. prof, 37-45, PROF, 45-, acting dean men, 42-44, dean students, 44-45. Sociol. Asn. Methodology; family; social psychiatry. Publ: College professor in America; co-auth, Mental health and mental disorder, Norton, 55 & Blue-collar World, Prentice-Hall, 64. Address: Dept. of Sociology, Temple University, Philadelphia, Pa. 19122.

BOWMAN, DR. D(ANIEL) OLIVER, b. Holly Hill, S.C, Feb. 1, 31. COUNSELING & EDUCATIONAL PSYCHOLOGY. B.A, Furman, 51; M.Ed, South Carolina, 52; Ph.D.(psychol), Georgia, 63. Teacher, high schs, S.C, 52-61; asst. prof. psychol, THE CITADEL, 63-65, ASSOC. PROF. PSYCHOL. & COUNSR. CORPS CADETS, 66- U.S.A, 53-55. Psychol. Asn; Acad. Polit. & Soc. Sci. Development of the self concept in children; study of aspects of creativity in the rebellious personality; personality disorders of the mentally retarded. Address: The Citadel, Charleston, S.C. 29409.

BOWMAN, DR. DEAN O(RLANDO), b. Chalmers, Ind, Sept. 22, 09; m. 36; c. 1. ECONOMICS. B.S, Purdue, 33, M.S, 34; Ph.D.(econ), Michigan, 41. Regional price exec. & dep. regional administr, Off. Price Admin, 46; chief for. trade sect, Japan-Korea Econ. Affairs Div, U.S. Dept. State, 47-48, asst. dir. off. indust. & commerce, 48-50; asst. administr. policy coord, Nat. Prod. Authority, 51-53; coordinator, long range planning, Crown Zellerbach Corp, 53-60; V.PRES, AUTONETICS DIV, N.Am. Aviation, Inc, 60-67, N.AM. ROCKWELL CORP, 67- Mem, bus. adv. bd, sch. bus. admin, American Univ. Gold medal, U.S. Dept. Commerce, 53. A.U.S, 43-45, 2nd Lt. Inst. Strategic Studies; Nat. Planning Asn. Publ: Public control of labor relations. Address: 1120 Richman Knoll, Fullerton, Calif. 92632.

BOWMAN, DR. EDWARD H(ARRY), b. Watertown, Mass, Sept. 30, 25; m. 48; c. 1. INDUSTRIAL MANAGEMENT. S.B, Mass. Inst. Tech, 47; M.B.A, Pennsylvania, 49; Ph.D.(bus. orgn), Ohio State, 54. Budget analyst, Corning Glass Works, 47-48; from asst. to instr. indust. mgt, Ohio State, 49-52; from instr. to assoc. prof, Mass. Inst. Tech, 52-66; COMPTROLLER, YALE, 66- U.S.N, 44-46. Econ. Asn; Opers. Res. Soc. Am; Inst. Mgt. Sci. Production management; manufacturing analysis. Publ: Using statistical tools to set a reject allowance, Nat. Asn. Cost Acct. Bull; Production scheduling by the transportation method of linear programming, J. Opers. Res. Soc. Am; co-auth, Model for scale operations, J. Mkt. Address: Yale University, Drawer 1602A, Yale Station, New Haven, Conn. 06520.

BOWMAN, PROF. HENRY A(DELBERT), b. Cleveland, Ohio, July 19, 03; m. 30, 66; c. 1. SOCIOLOGY. A.B, Western Reserve, 27, A.M, 29, Ph.D, Yale, 31. Instr. sociol, Stephens Col, 31-34, marriage ed, 34-55, head div. home & family, 42-55; assoc. prof. SOCIOL, TEXAS, 55-59, PROF, 59- Ed. consult, Marriage for Moderns Films. Pres, Nat. Coun. Family Rel, 58-59. Fel. Sociol. Asn; fel. Asn. Marriage Counsr; Soc. Health Asn. Marriage and family life. Publ: Marriage for moderns; The family and you; A Christian interpretation of marriage. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

BOWMAN, PROF. LeROY, Sociol, see 10th ed, Soc. & Behav. Vols.

BOWMAN, DR. LILLIE LEWIN, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

BOWMAN, PROF. MARY JEAN, b. New York, N.Y, Oct. 17, 08; m. 42; c. 1. ECONOMICS. B.A, Vassar Col, 30; M.A, Radcliffe Col, 32; Ph.D, Harvard, 38. From instr. to asst. prof. econ, Iowa State Col, 35-43; sr. economist, bur. labor statist, U.S. Dept. Labor, 44-45; vis. lectr. econ. theory, California, 49; mem. cmt. bus. enterprise res, Soc. Sci. Res. Coun, 53-57; RES. PROF. ECON, CHICAGO, 58- Field dir. study consumer purchases, U.S. Bur. Human Nutrit. & Home Econ, 36; Fulbright res. grant, Sweden, 55-56. Consult, Resources for the Future, 56-; U.S. Coal Cmn, 61-; res. consult, U.S. Off. Ed, 65-; consult, U.S. Agency Int. Develop, Africa, 66- Mem, tech. adv. cmt, pop. div, U.S. Census, 66- Econ. Asn. Risk and uncertainty in microeconomics; analysis of income distribution structures; economic development; economics of education; analysis of income distribution structures; regional economics; economic development and development planning. Publ: Economic analysis and public policy, Prentice, 43, 49; co-auth, Resources and people in east Kentucky, Hopkins, 63; Readings in the economics of education, UNESCO, 68. Address: Dept. of Economics, University of Chicago, Chicago, Ill. 60637.

BOWMAN, DR. PAUL H(OOVER), b. Philadelphia, Pa, June 20, 14; m. 42; c. 4. PSYCHOLOGY. B.A, Bridgewater Col, 34, LL.D, 64; B.D, Crozer Sem, 38; M.A, Pennsylvania, 38; Ph.D.(human develop), Chicago, 51. For. relief adminstr, Brethern Serv. Cmn, 38-46; counsr, counseling center, Univ. Chicago, 47-48; asst. prof. psychol, Louisville, 48-52; res. assoc. human develop, Univ. Chicago, 52-62; dir. dept. prev, Kansas City Ment. Health Found, 62-64; EXEC. DIR, INST. COMMUNITY STUDIES, 64- Consult, Ford Found, 61-65; mem. rev. cmt. Nat. Inst. Ment. Health, 63-65. Psychol. Asn; Ed. Res. Asn. Psychotherapy; social process; education. Publ: Studying children and training counselors; Mobilizing community resources; co-auth, Growing up in River City, Wiley, 62. Address: Institute for Community Studies, 2300 Holmes St, Kansas City, Mo. 64108.

BOWMAN, DR. RAYMOND T(OMLINSON), b. Philadelphia, Pa, Dec. 14, 02. ECONOMICS. B.S, Pennsylvania, 25, Ph.D, 33; Chicago, 29-30. From asst. prof. to prof. econ, Pennsylvania, 28-55, chmn. dept, 48-55; ASST. DIR. STATIST. STANDARDS, U.S. BUR. BUDGET, WASH, D.C, 55- Asst. dir. res. & statist, State Emergency Relief Admin, 35-36; econ. adv. & statistician, State Cmt. Pub. Relief & Assistance, Pa, 36-37, spec. asst. to secy. Dept. Pub. Assistance, 37, dep. secy, 39-42; res. assoc, Nat. Bur. Econ. Res, 38-39; chief of staff div. stock piling & transportation, War Prod. Bd, 42-44; dir. progress reporting, Off. Contract Settlement, 44-45; asst. adminstr. res, Surplus Property Admin, 45-46. Econ. Asn; Statist. Asn; Economet. Soc; Opers. Res. Soc. Prices; labor productivity. Publ: Statistical study of profits; co-auth, Economist's appraisal of the Department of Commerce national income accounts with special reference to the valuation problem & Conceptual and statistical problems in estimating capital coefficients for four metal fabricating industries, In: Studies in income and wealth, Princeton. Address: 9609 Dewmar Lane, Kensington, Md. 20795.

BOWMAN, DR. ROBERT EDWARD, b. Clinton, Ill, Feb. 18, 28; m. 50; c. 4. EXPERIMENTAL PSYCHOLOGY, BIOCHEMISTRY. B.S, Wisconsin, 54, Nat. Sci. Found. fel, 55-58, M.S, 58, Ph.D.(psychol), 58. Fel. steroid biochem, Utah, 58-59; proj. assoc. PSYCHOL, psychol. primate lab, WISCONSIN, 59-64, lectr, dept. psychol, univ, 63-65, ASSOC. PROF, 65-; SECT. HEAD PSYCHOCHEM, WIS. REGIONAL PRIMATE RES. CENTER, 63-, proj. assoc, 63-65. Prin. investr, Nat. Inst. Ment. Health study grant, 66-69. Psychol. Asn; Psychonomic Soc. Discrimination learning in monkeys; adrenocortical functions during physiological and behavioral manipulations; brain metabolism during learning. Publ: Discrimination learning set performance under intermittent and secondary reinforcement, J. Comp. & Physiol. Psychol, 63; co-auth, Psychochemistry, In: Experimental methods and instrumentation in psychology, McGraw, 66; auth, Ultramicro method for nonconjugated 17-hydroxycorticosteroids in O.5 ML of monkey or human plasma, Anal. Biochem, 67. Address: Dept. of Psychology, University of Wisconsin, Madison, Wis. 53706.

BOWMAN, PROF. ROBERT G(OLDTHWAIT), b. New Haven, Conn, Nov. 29, 12; m. 45; c. 3. GEOGRAPHY. A.B, Dartmouth Col, 35; Ph.D.(geog), California, 41. Lectr. geog, New Zealand, 40; res. assoc, Refugee Econ. Corp, N.Y, 41; instr. GEOG, California, 42; asst. prof, Iowa, 46-47, assoc. prof, 47-49; PROF, NEBRASKA, 49- Mil. Intel, U.S.A.A.F, 42-45. AAAS; Asn. Am. Geog; Am. Geog. Soc; Meteorol. Soc; Polar Soc; Nat. Coun. Geog. Ed. Prospects for land settlement; physiography; climatology; tropical, regional and military geography. Publ: Army farms and agricultural development in the Southwest Pacific, Geog. Rev; Prospects for settlement in Northeastern New Guinea; International geophysical year, Proc. Nebr. Acad. Sci. Address: Dept. of Geography, University of Nebraska, Lincoln, Nebr. 68508.

BOWMAN, PROF. (ROBERT) LEWIS, b. Forsyth County, N.C, May 3, 29; m. 57; c. 3. POLITICAL SCIENCE. B.A, North Carolina, 51, Falk fel, 59-60, South. Fel. Fund grant, 60-61, Ph.D.(polit. sci), 63. Teacher, high sch, N.C, 56-57; instr. polit. sci, North Carolina, 57-59, staff & field dir. Negro polit. participation study, 61-62; instr. polit. sci, Amherst Col, 62-64, asst. prof, 64-65; Virginia, 65-67, dir. res, voc. rehab. study, 67-68; PROF. POLIT. SCI. & CHMN. DEPT, EMORY, 68- Instr, Mt. Holyoke Col, 62-64; Nat. Sci. Found. summer grant, 66. Participant, nat. conf. statewide planning, Voc. Rehab. Serv, 67. U.S.A, 52-55. Polit. Sci. Asn. Political parties; public opinion; vocational rehabilitation; political leadership; community studies; race relations; survey research. Publ: Racial discrimination and Negro leadership problems, Soc. Forces, 12/65; co-auth, Activities and role definitions of grassroots party officials, J. Polit, 2/66; Recruitment patterns among local party officials, Am. Polit. Sci. Rev, 9/66. Address: Dept. of Political Science, Emory University, Atlanta, Ga. 30322.

BOWN, PROF. M(AX) DUANE, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

BOWN, PROF. OLIVER H(UTCHINS), b. Denver, Colo, Aug. 6, 21; m. 43; c. 4. PSYCHOLOGY. A.B, Denver, 43; M.A, Chicago, 48, Ph.D.(psychol), 54. Counsr, bd. voc. guid. & placement, Chicago, 46, counseling center, 47-49, prof. servs. coordinator, 49-51; lectr. ED. PSYCHOL, TEXAS, 51-59, assoc. prof, 59-66, PROF, 66-, ASSOC. DIR. PERSONALITY RES. CENTER, 62-, CO-DIR, RES. & DEVELOP. CENTER FOR TEACHER ED, 68-, assoc. dir, 65-68, counseling coordinator & res. assoc, 58-61, asst. dir, testing & counseling center, 51-58, assoc. dir, ment. health in teacher ed, proj, 60-63. Lectr, Ball State Teachers Col, 48-49; consult. psychologist, Edward Glaser & Assocs, 55-58. Research award, Personnel & Guid. Asn, 61. U.S.N.R, 43-46, Lt. Psychol. Asn. Psychotherapeutic process and relationship; mental health education for prospective teachers. Publ: Co-auth, Verbal-quantitative ability and certain personality and metabolic characteristics of male college students, Ed. & Psychol. Measurement, 60, Mental health in teacher education, J. Teacher Ed, 64 & The Bown self-report inventory (SRI): A screening instrument for mental health professionals, Comprehensive Psychiat, 67. Address: 303 Sutton Hall, University of Texas, Austin, Tex. 78712.

BOWRING, PROF. JAMES R(EGINALD), b. Yorkshire, Eng, May 30, 11; nat; m. 47; c. 4. ECONOMICS. B.S.A, Manitoba, 36; M.A, Alberta, 41; Chicago; Ph.D.(econ, statist), Iowa State, 45. Asst. economist, mkt. serv, Can. Dept. Agr, 38-41; res. assoc, Iowa State, 41-44; economist & food officer, UNRRA, Wash, D.C, 44-47, acting asst. chief, Mission to Czech, 46-47; from assoc. prof. to prof. agr. econ, NEW HAMPSHIRE, 48-66, PROF. RESOURCE ECON. & CHMN. DEPT, 66- Spec. asst, Cmt. Post-war Develop, Can. Govt, 43; price economist, food & restuarant div, Off. Price Stabilization, Wash, D.C, 51-52. Consult, agr. mkt. serv, U.S. Dept. Agr, 59, 67. Mem. spec. study, U.S. Dept. Agr, Cent. Am, 64; agr. cmt, House Rep, Maine, 66; study lobster indust, 67. Rep, Int. Asn. Agr. Econ, Mex, 59, France, 63. Order of White Lion, Czech, 47. Farm Econ. Asn. Economics of processing and distribution of agricultural products, especially efficiency and nutritional goals; economics of population migration and characteristics. Publ: Co-auth, Marketing policies for agriculture. Address: Dept. of Resource Economics, University of New Hampshire, Durham, N.H. 03824.

BOWSER, DR. RUSSELL, Labor Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

BOWSHER, DR. NORMAN N(ED), b. Lima, Ohio, Oct. 19, 20; m. 46; c. 4. FINANCE. LL.B, Ohio Northern, 47, B.A, 48; LL.M, Indiana, 51, D.B.A. (finance), 61. Economist, FED. RESERVE BANK OF ST. LOUIS, 50-60, sr. economist, 61, ASST. V.PRES, 61- Lectr, Washington (St. Louis), 50-57; pres, Four-Four Credit Union, 54. Mem, Current Reporting Series Cmt, 55-; chmn, Syst. Subcmt. Debits Statist, 61-64. U.S.A.A.F, 42-45, Sgt. Econ. Asn; Finance Asn. Money and banking. Publ: Flows of funds between regions of the United States, J. Finance; co-auth, Federal funds market. Address: Federal Reserve Bank of St. Louis, P.O. Box 442, St. Louis, Mo. 63166.

BOWYER, PROF. JOHN W(ALTER), JR, b. Onward, Ind, Apr. 29, 21; m. 48; c. 2. ECONOMICS. B.S, Indiana, 42, M.S, 43, univ. found. fel, 49-50, D.B.A, 50. Spec. asst. to dep. adminstr, Defense Prod. Admin, 50-51, asst. prof. finance, WASHINGTON (ST. LOUIS), 51-54, asst. dean SCH. BUS. & PUB. ADMIN, 54-57, PROF. FINANCE, 57- U.S.A, 43-46, 50-51, Capt. Finance Asn. Small area income analysis; business finance and administration. Publ: Investment analysis and management, Irwin, 66; Use of small area income estimates in municipal credit analysis, J. Finance. Address: School of Business & Public Administration, Washington University, Box 1133, St. Louis, Mo. 63130.

BOX, DR. G(EORGE) E(DWARD) P(ELHAM), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BOX, DR. J(AY) RICHARD, b. Grand Rapids, Ohio, Mar. 16, 21. INDUSTRIAL ADMINISTRATION. A.B, Bowling Green State, 43; M.B.A, Michigan, 49; Ph.D, Ohio State, 58. Instr. econ. & bus. admin, Bowling Green State, 49-52; asst. to commerce placement dir, Ohio State, 53-54; asst. prof. indust. mgt, MIAMI (OHIO), 54-65, ASSOC. PROF. MGT, 65-, DIR. BUR. BUS. PLACEMENT, 64- U.S.A, 43-46. Indust. Rel. Res. Asn. Management codes of ethics; human relations in industry; employment of the handicapped. Address: 105 Laws Hall, Miami University, Oxford, Ohio 45056.

BOXER, DR. BARUCH, b. Troy, N.Y, Oct. 31, 32; m. 62. GEOGRAPHY. A.B, Cornell, 54; Salisbury fel, Chicago, 56-57, A.M, 57, Ford Found. fels, 58-59, 60-61, univ. fel, 59-60, Nat. Defense Ed. Act fel. & Ph.D, 61. Vis. asst. prof. GEOG, Yale, 61-62; asst. prof, Indiana, 62-65, MICH. STATE, 65-68, ASSOC. PROF, 68- Grants for field work in Hong Kong, foreign field res. prog, div. earth sci, Nat. Acad. Sci-Nat. Res. Coun, joint cmt. contemporary China, Soc. Sci. Res. Coun-Am. Coun. Learned Socs. & adv. cmt. on int. studies, Indiana Univ, 63; Nat. Sci. Found. grant for participation, Conf. Recent Adv. in Use of Comput. in Geog. Res, 63; res. grant from joint cmt. contemporary China, Soc. Sci. Res. Coun-Am. Coun. Learned Socs, 65; Pac. Sci. Bd, Nat. Acad. Sci. travel grant, Pac. Sci. Cong, Tokyo, 66. Mem. eval. panel for grad. fel. prog, Nat. Sci. Found. Behav. Sci. Panel, 68. Chinese societies in East Asia. Publ: Ocean shipping in the evolution of Hong Kong, Univ. Chicago, 61; Space, change and Feng-shui in Tseun Wan's urbanization, J. Asian & African Studies, 68. Address: Dept. of Geography, Michigan State University, East Lansing, Mich. 48823.

BOXER, DR. NATHAN, b. New York, N.Y, May 16, 11; m. 41; c. 2. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 36, M.S, 37; Ed.D, N.Y. Univ, 52. Group worker, Hawthorne Sch, N.Y, 38-40; soc. investr, Dept. Welfare, 40-42; personnel officer, Off. Price Admin, 42-43; asst. chief clin. psychologist, BRONX VET. ADMIN. HOSP, 47-60, chief clin. psychologist, 60-67, SUPVRY. CLIN. PSYCHOLOGIST, 67- Private practice, 58-; chief clin. psychologist, Univ. Consult. Center, 63. U.S.A, 43-46, Lt. Psychol. Asn. Psychotherapy; projective techniques. Address: 25 Knolls Crescent, Riverdale, N.Y. 10463.

BOYCE, DR. JAMES E(DWARD), b. Buffalo, N.Y, July 17, 22; m. 49; c. 3. INDUSTRIAL PSYCHOLOGY. B.I.E, Gen. Motors Inst, 49; M.S, Purdue, 51, Gen. Motors Corp. fel, 51-52, Ph.D.(indust. psychol), 55. Prod. foreman, Chevrolet Motor Div, Gen. Motors Corp, 49-50, staff specialist personnel eval, Gen. Motors Inst, 53-55, sr. staff specialist, 55-56, asst. personnel dir, process develop. staff, GEN. MOTORS CORP, 56-58, supvr. ed. & training, ENG. STAFF, 58-60, personnel consult, 60-63, SR. STAFF ASST, 63- Instr, Mich. State, 60-63. U.S.A, 43-46. Psychol. Asn. Management development; organizational effectiveness; employee performance evaluation; engineering management; manpower utilization. Publ: Engineering approach to personnel problems, Procs, Ohio State Conf. Prog. Eng. Personnel Policies: Professional development at engineering staff, Gen. Motors Conf. Eng. & Sci. Educators; So you want to be a supervisor?, SAE J, 20 articles, 1/66-9/67. Address: 1543 Witherbee, Troy, Mich. 48084.

BOYCE, DR. RONALD REED, b. Los Angeles, Calif, Jan. 7, 31; m. 55; c. 1. GEOGRAPHY, URBAN PLANNING. B.S, Utah, 56, univ. fel, 56-57, M.S, 57; West Coast Credit Corp. fel, Washington (Seattle), 57-58, Ph.D, 61. Asst. geog, Washington (Seattle), 57-59, civil eng. & planning, 58; instr, West. Wash. State Col, 59; res. assoc. water resources planning, Washington (St. Louis), 60-61; ASST. PROF. regional planning, Illinois, Urbana, 61-66; GEOG, WASHINGTON (SEATTLE), 66- U.S.A, 53-54. Asn. Am. Geog; Am. Geog. Soc; Regional Sci. Asn. Metropolitan spatial structure, especially central business district change as related to freeway development. Publ: Co-auth, Studies of the central business district and urban freeway development & Meramec Basin: water and economic development and water possibilities. Address: Dept. of Geography, University of Washington, Seattle, Wash. 98105.

BOYD, DR. ARCHIBALD D(ONALD), b. Antigonish, N.S, Mar. 12, 29; m. 55; c. 2. ECONOMICS. B.A, St. Francis Xavier (Can), 49; M.A, Toronto, 52; Ph.D.(econ), Ottawa (Ont), 67. Lectr. econ, St. Francis Xavier (Can), 52-55; economist indust. develop, N.S, CAN. GOVT, 55-57, labor, 58, HEAD HIGH LEVEL MANPOWER RES, 58-65, DEPT. MANPOWER & IMMIGRATION, 66- Lectr. Ottawa (Ont), 59-; consult, Royal Cmn. Health Serv, 62-63. Am. Econ. Asn; Can. Econ. Asn. Manpower economics; economics of growth; scientific manpower resources; economics of industry and manpower in underdeveloped areas; community development. Publ: Engineering and scientific manpower resources in Canada, 1959; Paramedical manpower in Canada, Govt. Can, 64. Address: 20 Hexham Rd, Ottawa 14, Ont, Can.

BOYD, FOSTER, b. Richmond, Va, Aug. 8, 20; m. 49; c. 2. CLINICAL PSYCHOLOGY. B.A, Maryland, 42; M.A, George Washington, 48. Psychologist, Southwest. State Hosp, Marion, Va, 48-49; dir. clin. serv, Md. Training Sch. for Boys, 49-58; supt, Gumbert Sch. for Girls, Pa, 58-61; Youth Develop. Center of Waynesburg, 61-67; CONSULT, FLA. STATE DEPT. ED, 67- Consult, Baltimore County Juvenile Court, 55-58. U.S.A, 42-46. Psychol. Asn. Causes, description and treatment of juvenile delinquency. Publ: Provisional quantitative scoring with preliminary norms for Goldstein-Scheerer cube test, J. Clin. Psychol. Address: 239 Westridge Dr, Tallahassee, Fla. 32304.

BOYD, PROF. HARPER W(HITE), JR, b. Tampa, Fla, Sept. 14, 17; m. 46; c. 1. MARKETING. B.S, Beloit Col, 38; M.B.A, Northwestern, 41, Ph.D. (mkt), 52. Mgr. field res, Chicago Tribune, 46-48; res. dir, Mkt. Res. Corp. Am, 48-52; assoc. prof. mkt, Northwestern, 52-57, prof, 57-60, mkt. & advert, schs. bus. & journalism, 60-63, chmn. dept. mkt, 58-63, consult, inst. mgt, 55-63; prof. mkt, STANFORD, 63-67, KRESGE PROF. MKT. & DIR. INT. CENTER ADV. MGT. ED, 67- Dir, N.Am. Asbestos Co, 59-; prog. dir, Egyptian Inst. Mgt, Cairo, 60-61; dir, bur. Commercial Res, Eng, 61. Consult. various orgns. & participant numerous exec. mgt. develop. progs, U.S. & abroad. Mem. Venezeula-Creole Petrol. Exec. Develop. Prog, 56; adv. cmt, U.S. Dept. Agr, 59- Distinguished serv. citation, Beloit Col, 63. U.S.N, 41-46, Lt. Comdr. Mkt. Asn. Consumer behavior and buying decisions; marketing strategies; consumer panels. Publ: Co-auth, Marketing research: text and cases, Irwin, rev. ed, 64, A behavioral view of the promotion process, Prentice-Hall, 67 & Marketing management and administrative action, McGraw, rev. ed, 68. Address: Graduate School of Business, Stanford University, Stanford, Calif. 94305.

BOYD, DR. INA HELENE, b. Houston, Tex, Dec. 12, 11; m. 49; c. 2. PSYCHIATRY. B.A, Rice, 32; M.D, Texas, 36. Resident, N.J. State Hosp, 39-42; staff psychiatrist, Galveston State Psychopathic Hosp, Tex, 42-43; sr. psychiatrist, San Antonio State Hosp, Tex, 43-49; staff psychiatrist, VET. ADMIN. HOSP, 49-55, ASST. CHIEF PSYCHIAT. & NEUROL. SERV, 55- Instr, med. br, Texas, 42-43; clin. instr, col. med, Baylor, 49-52, clin. asst. prof, 52-56, asst. prof, 56-63, clin. assoc. prof, 63- Dipl, Am. Bd. Psychiat. & Neurol. Am. Med. Asn; Group Psychother. Asn; fel. Psychiat. Asn. Family determinants and interaction processes leading to healthy emotional development. Publ; Co-auth, Parents of schizophrenics, neurotics and normals, AMA Arch. Gen. Psychiat, 8/59; Emotional illness and interaction process, a study of patient groups, Soc. Forces, 12/62; Patient culture and the evaluation of self, Psychiat. J. Study Interpersonal Processes, 5/64. Address: Veterans Administration Hospital, 2002 Holcombe Blvd, Houston, Tex. 77031.

BOYD, COL. JAMES M, U.S.A.F, b. San Francisco, Calif, Apr. 15, 19; m. 46; c. 1. POLITICAL SCIENCE. B.A, California, Berkeley, 40, M.A, 51; Ph.D. (pub. law, govt), Columbia, 68. U.S. AIR FORCE, 40-, directorate of plans, Hq. Air Force, 51-54, air attaché, U.S. Embassy, Cairo, 56-59, chief aerospace policy div. plans, Hq. Air Force, 59-62, asst. dep. dir. plans, 63, mem. sr. seminar on for. policy, Dept. State, 63-64, res. assoc, inst. war & peace studies, Columbia, 64-65, MEM. U.S. DEL. TO MIL. STAFF CMT, UN & U.S. DEL. TO UN, 65- Polit. Sci. Asn. United Nations peace-keeping operations. Publ: Cyprus, episode in peace-keeping, Int. Orgn, winter 66. Address: Military Staff Committee, U.S. Mission to United Nations, 799 UN Plaza, New York, N.Y. 10017.

BOYD, JOE N(ELSON), Statist, Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

BOYD, DR. RICHARD W, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

BOYD, DR. RICHARD W, b. Lubbock, Tex, Aug. 2, 41; m. 61; c. 2. POLITICAL SCIENCE. B.A, Texas, 64; Ph.D.(polit. sci), Indiana, 68. ASST. PROF. POLIT. SCI, INDIANA, 67- Polit. Sci. Asn; Sociol. Asn. American politics; methodology; public opinion; voting behavior. Publ: Co-auth, A Fortran 3400/3600 program for computing multiple-scale Guttman scalogram analyses, Behav. Sci, 11/67. Address: 429 N. Clark St, Bloomington, Ind. 47401.

BOYD, PROF. ROBERT DAVID, b. Toronto, Ont, June 21, 23; U.S. citizen; m. 52; c. 3. EDUCATIONAL PSYCHOLOGY. M.A, Chicago, 53, Ph.D.(ed. psychol), 62. Prin, pub. sch, Ont, 46-49; diagnostician reading, Univ. Chicago, 51-52, critic teacher, 53-57, res. assoc, 57-58; critic teacher, Miami (Ohio), 52-53; asst. prof. ED. PSYCHOL, Antioch Col, 58-61; WISCONSIN, 61-65, PROF, 65- Mem, Cmn. Profs. Adult Ed, 62-; chmn, Nat. Seminar Adult Ed. Res, 65-66; ed, Adult Ed. J, 67- Psychol. Asn; Adult Ed. Asn; Nat. Soc. Study Ed. Motivation in framework of ego psychology; learning, instruction and instructional groups in framework of cognitive-field psychology. Publ: Ego-stage development of school-age children, J. Exp. Ed, spring 64; The observation and recording of behavior, Rev. Ed. Res, summer 66; General principles of teaching at the university level, Centennial Year Monogr, Univ. Illinois Library Sch, spring 68. Address: Dept. of Instruction, University of Wisconsin, 1815 University Ave, Madison, Wis. 53706.

BOYD, PROF. R(OBERT) K(ENNETH), b. Dryden, Mich, Jan. 3, 09; m. 31; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Emmanuel Missionary Col, 30; M.A, Mich. State Col, 38; Ph.D.(acct), Stanford, 52. Instr. BUS. ADMIN, South. Jr. Col, 38-44; PROF. & HEAD DEPT, PACIFIC UNION COL, 44-, acct, 45-46. Econ. Asn; Am. Acct. Asn. Controllership; business forecasting; investment analysis. Address: Box 236, Angwin, Calif. 94508.

BOYD, PROF. ROSAMONDE RAMSAY, b. Durham, N.C, Apr. 22, 00; m. 20, 47; c. 1. SOCIOLOGY. A.B, South Carolina, 33, A.M, 34; Ph.D.(sociol, hist), Duke, 45. Instr. sociol, South Carolina, 33-36; asst. prof. sociol. & biol, Sue Bennett Col, 36-37; assoc. prof. sociol. & hist, CONVERSE COL, 37-45, PROF. SOCIOL, 45-, head dept, 45-65. Carnegie Found. grant, 50. Mem. Women's Planning Cmt, Japan Int. Christian Univ; nat. adv. cmt, White House Conf. Aging, 60-61; legal & econ. status women cmt, Int. Fedn. Univ. Women, 65-68; nat. adv. coun, Off. Econ. Opportunity, 66-67. Fel. Sociol. Asn. Intergenerational studies; social gerontology; education of youth; status of women, new and expanded services for women as wives, mothers, homemakers and workers; community property and matrimonial laws. Publ: The social adjustment of the Greeks in Spartanburg, South Carolina, Williams Printing, Spartanburg Converse Col, 50; The emerging social roles in the four-generational family, In: Our elderly Americans: challenge and response, 67; An evaluation of political responsibilities assumed by women in the United States and Canada, The Annals Am. Polit. & Soc. Sci, 1/68. Address: 442 Union St, Spartanburg, S.C. 29301.

BOYD, PROF. VIRLYN A(LEXANDER), b. Villa Rica, Ga, Nov. 7, 20; m. 45; c. 2. RURAL SOCIOLOGY. B.S, Berry Col, 41; B.S, Kentucky, 47, M.S, 48. Asst. county supvr, Farm Security Admin, 41-42; asst. prof. RURAL SOCIOL, CLEMSON COL, 48-52, ASSOC. PROF, 52- U.S.A.A.F, 42-45, Sgt. Am. Sociol. Asn; Rural Sociol. Soc. Rural family and church; land tenure; unemployment; social and economic development. Publ: Rental arrangements on tractor and nontractor farms in the Southern Piedmont; Survey of unemployment compensation beneficiaries in Anderson, Greenville and Spartanburg Counties, South Carolina, 1957. Address: Rt. 2, Forest Hills, Pendleton, S.C. 29670.

BOYD, DR. WILLIAM W(ORTH), b. Bloomington, Ind, Dec. 14, 23; m. 46; c. 2. PSYCHOLOGY. B.A, Southern Methodist, 47; M.S, Houston, 48; Ph.D.(psychol) Purdue, 52. Counsr. coop. ed, Houston, 48-50, asst. prof. psychol, 52-59; DIR. PERSONNEL TESTING SERV, HOUSTON OFF. CENTER, 55- Psychol. Asn. Psychometrics; selection, training and development in sales and executive levels; human relations. Address: Personnel Testing Service, Houston Office Center, 6001 Gulf Freeway, Houston, Tex. 77023.

BOYDEN, DR. THEODORE CHILDS, b. Greenfield, Mass, Feb. 5, 13. ECONOMICS. B.A, Amherst Col, 36; M.A, Harvard, 41, fel, 53-54, Ph.D, 55. Asst. instruction, Yale, 41-42; economist, McGraw-Hill Pub. Co, 55-58; Pulsifer & Hutner, 58-59; Joint Coun. Econ. Ed, 60-65; PROF. ECON. ED. & DIR. CENTER BUS. & ECON. ED, GA. STATE COL, 65-, dir, Nat. Defense Ed. Act Insts. Econ, 67 & 68. U.S.A, 42-49, Lt. Col. Econ. Asn; Econ. Hist. Asn; Asn. Bus. Econ. Economic development; location theory; business fluctuations. Address: 300 W. Peachtree St. N.W, Atlanta, Ga. 30308.

BOYER, PROF. EDWARD S(TERLING), Sociol, see 10th ed, Soc. & Behav. Vols.

BOYER, DR. ERNEST L(EROY), b. Dayton, Ohio, Sept. 13, 28; m. 50; c. 4. HIGHER EDUCATION, AUDIOLOGY. A.B, Greenville Col, 50; grant & M.A, Southern California, 54, Ph.D.(speech path, audiol), 58. Teaching asst. speech, Southern California, 51-55; asst. prof. speech & dir. forensics, Loyola (Calif), 55-56; prof. speech path. & audiol. & acad. dean, Upland Col, 56-60; dir. cmn. to improve ed. of teachers, West. Col. Asn, 60-62; dir. center ed, California, Santa Barbara, 62-65; V.CHANCELLOR UNIV-WIDE ACTIVITIES, STATE UNIV. N.Y. ALBANY, 65- Fel. otolaryngol, Univ. Hosps, Iowa City, Iowa, 60-61; participant, inst. acad. deans, Harvard, 61; intellectual life conf. acad. deans, Asn. Am. Cols, 62. Speech & Hearing Asn. Speech pathology; medical audiology; higher education administration. Publ: Co-auth, Vein plug stapedioplasty and bone conduction acuity, J. Speech & Learning Res, 6/61 Overcoming barriers to school-university collaboration, Ed. Record, spring 65 & Faculty and student assessments of the environments of several small church related colleges, J. Ed. Measurement, winter 66. Address: 29 Westover Rd, Slingerlands, N.Y. 12159.

BOYER, PROF. P(ERRY) F(RANCIS), b. Gatesville, Tex, June 5, 07. STATISTICS. A.B, Baylor, 27; M.B.A, Texas, 35, Ph.D, 40. Asst. prof, Tex. State Col. Women, 38-39, assoc. prof, 40-42; BUS. STATIST, LA. STATE, 42-47, PROF, 47-, HEAD DEPT. BUS. FINANCE & STATIST. & DIR. DIV. RES, 48- Ed, La. Bus. Rev. Pres, Assoc. Univ. Bur. Bus. & Econ. Res, 53-54. Business statistics; small business opportunities and veterans loans. Address: College of Business Administration, Louisiana State University, Baton Rouge, La. 70803.

BOYER, DR. ROSCOE ALLEN, b. Clinton Co, Ind, Mar. 14, 19; m. 47; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Franklin Col, 41; Ph.D.(ed. psychol), Indiana, 56. Teacher, high sch, Ind, 45-47; dir. group testing, Indiana, 47-55; INSTR. ED, MISSISSIPPI, 55- Dir. sch. bus routing proj, 60-64; Consultative Center Miss. Schs, 66-67. U.S.A.F.R, Col. Psychol. Asn; Ed. Res. Asn. Address: Box 393, University, Miss. 38677.

BOYER, DR. RUTH McDONALD, b. Calls Ft, Utah, Oct. 16, 18; m. 39; c. 3. ANTHROPOLOGY. B.A, California, Berkeley, 50, Ph.D.(anthrop), 62. ASST. PROF, DEPT. DESIGN, CALIFORNIA, BERKELEY, 62-, faculty res. grant, 66. Fel. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc. Socialization practices among the Mescalero Apaches, New Mexico; folk arts in Peru; costumes of all civilizations; textiles. Publ: The Matrifocal family among the Mescalero: additional data, Am. Anthropologist, 6/64; Un azucarero del Colonial tardio, J. Museo Virreynal, Cuzco, Peru, 12/67; co-auth, Some influences of acculturation on the personality traits of the old people of the Mescalero and Chiricahua Apaches, In: Vol. IV, 67, The psychoanalytic study of society, N.Y. Int. Univ. Address: Dept. of Design, University of California, Berkeley, Calif. 94720.

BOYER, PROF. WILLIAM H(AROLD), b. Spalding, Idaho, May 2, 00; m. 32. PSYCHOLOGY. B.S, Idaho, 29, M.S, 30; Ph.D, Peabody Col, 36. Instr. PSYCHOL, IDAHO, 30-38, asst. prof, 38-46. assoc. prof, 47-51, head dept, 47-66, prof, 51-66, EMER. PROF, 66- U.S.A, 18, 42-46, Capt. Psychol. Asn. Learning; psychometrics. Address: 520 S. Washington St, Moscow, Idaho 83843.

BOYER, DR. WILLIAM N(ICHOLAS), b. Cowan, Man, Dec. 10, 34; m. 60; c. 1. PSYCHOLOGY. B.A, Carleton (Can), 58; M.S, Toronto, 60; Ph.D.(psychol), Okla. State, 65. Fel. PSYCHOL, Wisconsin, 65-66; ASST. PROF, Oklahoma City Univ, 66-67; COLORADO STATE, 67- Am. Psychol. Asn; Can. Psychol. Asn. Learning processes in humans and subhuman species; the effect of early experience upon development. Publ: Co-auth, Discrimination reversal learning in naive stump-tailed monkeys as a function of number of acquisition trials, 65 & auth, Discriminative performance in three species of monkeys as a function of trial 1 reward conditions and intertrial interval, 66, Psychonomic Sci. J; co-auth, Monkeys performance on ambiguous-cue problems, Perceptual Motor Skills J, 66. Address: Dept. of Psychology, Colorado State University, Ft. Collins, Colo. 80521.

BOYER, PROF. WILLIAM W(ALTER) JR, b. Verona, Pa, Dec. 10, 23; m. 46; c. 4. POLITICAL SCIENCE. B.A, Col. Wooster, 47; M.A, Wisconsin, 49, Ford grant, 52-53, Ph.D.(polit. sci), 53. Res. asst, State Legis. Coun, Wis, 53-54; instr. govt, Connecticut, 54; admin. asst. to governor, State of Wis, 54-55; assoc. prof. polit. sci, Pittsburgh, 55-65, dir. int. specialists progrs. in pub. admin, 57-65; PROF. POLIT. SCI. & HEAD DEPT, Kansas State, 65-U.S. Dept. State lectr, Taiwan, Singapore, Malaya, Thailand, Burma, Ceylon & Jordan, 60; vis. prof, Panjab, Pakistan, 62-64; vis. sr. Fulbright prof, Andhra, India, summer 67. U.S.A.A.F, 43-46, Sgt. Polit. Sci. Asn; Acad. Polit. Sci; Soc. Pub. Admin. Public administration and policy; comparative government; South and Southeast Asian political systems. Publ: Bureaucracy on trial: policy making by government agencies, Bobbs, 64; ed, Issues 1968, Univ. Kansas, 68; co-auth, United States and the admission of communist China, Polit. Sci. Quart, 9/61. Address: 1928 Leavenworth St, Manhattan, Kans. 66502.

BOYET, PROF. WAYNE ELWOOD, b. Ringgold, La, Sept. 30, 37; m. 57; c. 2. ECONOMICS, STATISTICS. B.S, La. State, 59; M.S, N.C. State, 64, Ph.D. (agr. econ), 65. Instr. agr. econ, N.C. State, 62-64; asst. prof, Va. Polytech, 64-66; PROF. ECON. & STATIST, 66-68; LA. POLYTECH, 68- Econ. Asn; Agr. Econ. Asn. Area development and demand for recreation. Publ: Co-auth, Recreation projections based on demand analysis, J. Farm Econ, 11/66. Address: 408 Forest Circle, Ruston, La. 71270.

BOYLE, DR. GERALD J(OSEPH), b. St. Louis, Mo, Feb. 1, 21; m. 49; c. 4. ECONOMICS. B.A, Colo. Col, 51; M.A, New Mexico, 57; Ph.D.(econ), Syracuse, 60. Res. economist pub. finance, Nat. Indust. Conf. Bd, N.Y, 56-58; res. analyst ed. finance, State Dept. Ed, N.Y, 58-59; govt. finance, State Dept. Finance & Admin, N.Mex, 59-62; prog. economist, Agency Int. Develop, 62-64; res. prof. pub. admin, grad. sch. pub. admin, N.Y. Univ, 64-66; chief fiscal anal. staff, U.S. Bur. Budget, 66-68; PROF. ECON, NEW MEXICO, 68- Lectr, New Mexico 61-62. Consult, State Budget Div, N.Y, 59; Agency Int. Develop, 65. U.S.A, 43-46. Econ. Asn. Government finance and economic development. Publ: New York City budget process, N.Y. Univ, 66; Cost of education index; Use of service charges in local government. Address: Dept. of Economics, University of New Mexico, Albuquerque, N.Mex. 87106.

BOYLE, MARYBELLE, b. Pine City, Minn, July 3, 11. COUNSELING. B.A, Hamline, 33; M.A, Northwestern, 42. Teacher, high schs, Minn, 33-44; counsr. & placement adv, Mid-cent. Procurement Command Hqs, U.S. Army Air Force, Ill, 44-45; testing asst, Ed. Counseling Center, WAYNE STATE, 45-52, psychometrist, 52-58, DIR. TESTING SERV, 58- Mem. scholar. cmt, W.B. Chase Found, Mich, 56; United Steelworkers Am, 60. Psychol. Asn; Personnel & Guid. Asn; Coun. Measurement in Ed. Measurement and evaluation; projective techniques. Address: 859 Neff Rd, Grosse Pointe, Mich. 48230.

BOYLE, DR. RAYMOND E, b. Arlington, Nebr, Feb. 4, 26. EXPERIMENTAL PSYCHOLOGY. B.A, Reed Col, 50; M.S, Washington (Seattle), 52, Ph.D. (psychol), 55. MEM. FACULTY PSYCHOL, Ore. State Col, 54-56; Reed Col, 56-61; Long Beach State Col, 61-66; SIMON FRASER UNIV, 66- Psychol. Asn. Central nervous system mechanisms of motivation and emotion. Address: Dept. of Psychology, Simon Fraser University, Burnaby 2, B.C, Can.

BOYLE, DR. RICHARD PERRY, b. Makati, Philippine Islands, Feb. 3, 37; m. 60; c. 2. SOCIOLOGY. B.A, San Diego State Col, 58; M.A, Washington (Seattle), 63, Ph.D.(sociol), 64. Res. assoc. SOCIOL, British Columbia, 62, lectr, 63-64; asst. prof, Iowa, 64-66; Nat. Inst. Ment. Health fel. & lectr, Harvard, 66-67; ASST. PROF, CALIFORNIA, LOS ANGELES, 67- AAAS; Sociol. Asn. Theoretical sociology; mathematical models; social organization; adolescence. Publ: Causal theory and statistical measures of effect, Am. Sociol. Rev, 66; The effect of the high school on student's aspirations, Am. J. Sociol, 66; Community influence on college aspirations, Rural Sociol, 66. Address: Dept. of Sociology, University of California, Los Angeles, Calif. 90024.

BOYLE, DR. STANLEY E(UGENE), b. Sandpoint, Idaho, Sept. 4, 27; m. 49; c. 1. ECONOMICS. B.A, Washington State, 54, M.A, 55; Ford Found. fel, Wisconsin, 57-58, Ph.D, 59. Asst. prof. econ, St. Louis, 58-61, assoc. prof, 61-63; asst. to dir, bur. econ, Fed. Trade Cmn, 63, chief div. indust. anal, 63-66; PROF. ECON, VA. POLYTECH, 66- Economist, antitrust div, U.S. Dept. Justice, 62- Consult, U.S. Naval War Col, 61-62. U.S.A.A.F, 45-48, Sgt. Econ. Asn. Government antitrust policy; problems of business behavior, social welfare, technology and size of business unit. Publ: Joint subsidiary: an economic appraisal, Anti-Trust Bull; Government promotion of monopoly power, J. Indust. Econ; Economic reports and the Federal Trade Commission: 50 years' experience, Fed. Bar J, 64. Address: Dept. of Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

BOYNTON, PROF. JOHN O('HARA), Geog, see 10th ed, Soc. & Behav. Vols.

BOYNTON, PROF. ROBERT M, Psychol, Optics, see 11th ed, Phys. & Biol. Vols.

BOYNTON, PROF. ROBERT PAUL, b. Grand Rapids, Mich, Oct. 1, 27; m. 47; c. 1. POLITICAL SCIENCE. A.B, Calvin Col, 49; A.M, Michigan, 51, fel. & Ph.D.(polit. sci), 55. Instr. hist. & govt, Wells Col, 54-56, asst. prof, 56-57; IOWA, 57-63, ASSOC. PROF. POLIT. SCI, 63- Soc. Sci. Res. fel, summer, 58. Regional chmn, Woodrow Wilson Nat. Fel. Found, 64-67. U.S.N.R, 45-46. Polit. Sci. Asn; Soc. Pub. Admin. Contemporary political thought; methodologies of political science; administrative theory; urban politics and administration. Address: Dept. of Political Science, University of Iowa, Iowa City, Iowa 52240.

BOYSAW, HAROLD E, Sociol, see 10th ed, Soc. & Behav. Vols.

BOZEMAN, PROF. ADDA B(RUEMMER), Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BOZEMAN, DR. HERMAN H(OLLIS), b. Benson, Ala, July 18, 14; m. 41; c. 1. SOCIOLOGY. B.A, Va. Union, 34; M.A, Michigan, 46, Ed.D.(sociol), 56. Mem. div. soc. sci, Va. Union, 47-58, acting dir. div. ed, 55-56; CHMN. DIV. TEACHER ED, NORFOLK DIV, VA. STATE COL, 58- U.S.A, 43-45. Sociol. Asn. Interestgroups. Publ: Attitudes of selected racial leadership organizations towards educational policies and practices for Negroes during the twentieth century. Address: 206 Bellamy Ave, Norfolk, Va. 23523.

BRAATEN, DR. LEIF J(OHAN), b. Hönefoss, Norway, Apr. 26, 28; m. 52; c. 2. PSYCHOLOGY. M.A, Oslo, 52; fel, Chicago, 56-58, Ph.D.(clin. psychol), 58. Asst. psychomet, Oslo, 52-53; from asst. to staff counsr, counseling center, Chicago, 55-59; asst. prof. clin. & prev. med, Gannett Med. Clin, Cornell, 59-61, assoc. prof, 61-64, clin. psychologist, 59-64; ASST. PROF. PSYCHOL, OSLO, 64-, PSYCHOLOGIST, UNIV. HEALTH SERV, 67- Res. award, Am. Col. Health Asn, 61; dipl. clin. psychol, Norwegian Psychol. Asn, 64. Norwegian Army, 53-54, Lt. Psychol. Asn; Acad. Psychother. Mental measurement; counseling and psychotherapy; mental health; personality theory. Publ: Client-centered counseling and therapy, Univ. Oslo, 67; Movement from non-self to self in client-centered psychotherapy, J. Counseling Psychol; Main themes of existentialism from the viewpoint of a psychotherapist, Ment. Hyg. Address: Dept. of Psychology, University of Oslo, Oslo, Norway.

BRABB, PROF. GEORGE J(ACOB), b. Buhl, Idaho, May 9, 25; m. 49; c. 2. MANAGEMENT SCIENCE. B.S, Idaho, 50, M.S, 54; Ph.D, Illinois, 58. Asst. prof. bus. statist, Washington (Seattle), 56-60, assoc. prof, 60-67; PROF. MGT. SCI. & COMPUT, SCH. BUS. ADMIN, MONTANA, 67- Vis. prof, sch. bus. & res. assoc, off. instnl. res, Colorado, 66-67. U.S.N, 43-46. Statist. Asn; Econ. Asn; Asn. Comput. Mach; Inst. Mgt. Sci. Statistical decision processes; research quantitative management, Holt, 68; co-auth, Evaluation of subjective information sources, J. Mkt. Res, 11/64. Address: School of Business Administration, University of Montana, Missoula, Mont. 59801.

BRACE, DR. C. LORING, Phys. Anthrop, see Suppl. II & IV to 11th ed, Phys. & Biol. Vols.

BRACEY, DR. DOROTHY HEID, b. Far Rockaway, N.Y, Aug. 12, 41; m. 64. ANTHROPOLOGY. A.B, Col. William & Mary, 62; M.A, Harvard, 65, Ph.D.(anthrop), 67. ASST. PROF. ANTHROP, JOHN JAY COL, CITY UNIV. NEW YORK, 67- City Univ. New York Faculty res. fel, 68-69. Asn. Asian Studies; Anthrop. Asn. Social anthropology, especially society and culture of China. Address: Dept. of Anthropology, John Jay College of Criminal Justice, City University of New York, 315 Park Ave. S, New York, N.Y. 10010.

BRACKBILL, PROF. YVONNE, b. Modesto, Calif, Oct. 11, 28; m. 59. PSYCHOLOGY. B.A, California, 50; M.A, Colorado, 53; Ph.D, Stanford, 56. RES. FEL. PSYCHOL, Hopkins, 59-60; SCH. MED, COLORADO, 61-; RES. PROF, DENVER, 65- Psychol. Asn; Soc. Res. Child Develop. Experimental Child psychology, especially on learning and motivation. Publ: Factors determining the guessing of meanings of foreign words, J. Abnorm. & Soc. Psychol; Relative effectiveness of reward and punishment for discrimination learning in children, J. Comp. & Physiol. Psychol; Experimental research with children in the Soviet Union: report of a visit, Am. Psychologist. Address: Dept. of Psychology, University of Denver, Denver, Colo. 80210.

BRACKEN, DR. (HARRY) JEROME, (JR), b. Pittsburgh, Pa, Oct. 4, 35; m. 57; c. 4. BUSINESS ADMINISTRATION. B.S, Carnegie Inst. Tech, 56; M.E.A, George Washington, 59; D.B.A, Harvard, 63. Res. asst, Harvard Bus. Sch, 60-61; res. scientist, logistics res. proj, George Washington, 62-64; mem. tech. staff, Res. Anal. Corp, 64-65, deputy head adv. res. dept, 65-67; RES. STAFF MEM, INST. DEFENSE ANAL, 67- Lectr, George Washington, 61-U.S.A, 56-58, 1st Lt. Opers. Res. Soc; Inst. Mgt. Sci; Asn. Comput. Mach. Theory and application of mathematical programming models; military systems analysis. Publ: Co-auth, Tables for normal sampling with unknown variance, Harvard Bus. Sch, 64, Tables for use in analyzing business decisions, Irwin, 65 & Selected applications of nonlinear programming, Wiley, 68; plus articles in prfnl. journals. Address: Institute for Defense Analyses. 400 Army-Navy Dr, Arlington, Va. 22202.

BRACKETT, JAMES W(ILLIAM), b. Gastonia, N.C, Oct. 7, 31; m. 55; c. 2. SOCIOLOGY, STATISTICS. A.B, North Carolina, 53. Chief, estimates & projections br, for. demog. anal. div, U.S. Bur. Census, 55-67; DEP. CHIEF POP. & PROG. ANAL. DIV, POP. SERV, OFF. WAR ON HUNGER, AGENCY INT. DEVELOP, U.S. DEPT. STATE, 67- Consult, UN, 66; mem. subpanel pop. & nutritional demands, panel world food supply, President's Sci. Adv. Cmt, 66-67. Int. Union Sci. Study Pop; Pop. Asn. Demography; computer applications. Publ: Some computer applications to population projections and demographic analysis, In: Computer methods in the analysis of large scale social systems, Joint Center Urban Studies, 65; co-auth, Population policy and demographic trends in the Soviet Union, In: New directions in the Soviet economy, U.S. Cong, 66; auth, The evolution of Marxist theories of population: Marxism recognizes the population problem, (in press). Address: 2209 White Oaks Dr, Alexandria, Va. 22306.

BRACKIN, DR. WALTER H(ANNAUM), b. Cochranville, Pa, Oct. 28, 04; m. 36; c. 1. PSYCHOLOGY. B.S, Pennsylvania, 28, A.M, 31; Ph.D.(psychol). Temple, 54. Teacher & dir. testing, high sch, Pa, 31-39, counsr, 39-43; asst. dir. civilian training, New Cumberland Army Serv. Forces Depot, 43-44; dir. civilian training, Phila. Qm. Depot, 44-45; asst. dir, Vet. Admin. Guid. Center, Temple, 45-48, dir, 48-51, asst. dir, testing bur, 51-54; from assoc. prof. to PROF. PSYCHOL. & HEAD DEPT, MUHLENBERG COL, 54- Psychol. Asn; Personnel & Guid Asn. Counseling and guidance; testing; child psychology. Address: 1055 N. 22nd St, Allentown, Pa. 18104.

BRACKMANN, PROF. JOHN F(RED), JR, b. Piqua, Ohio, July 13, 23; m. 49; c. 1. PSYCHOLOGY. A.B, Miami (Ohio), 49; M.A, Indiana, 51, Ph.D.(psychol), 53. Instr. PSYCHOL, West Virginia, 53-56; asst. prof, SACRAMENTO STATE COL, 56-61, assoc. prof, 61-66, PROF, 66- U.S.A.A.F, 43-46. Psychol. Asn. Learning; theory construction and methods. Address: Dept. of Psychology, Sacramento State College, 6000 J St, Sacramento, Calif. 95819.

BRADAC, PROF. JOSEPH G, b. Marmarth, N.Dak, July 9, 15; m. 48; c. 2. GEOGRAPHY. B.S, North Dakota, 47, M.S, 48; Ph.D.(geog), Michigan, 53. With Univ. Missouri, 48-50; Buffalo, 52-53; from asst. prof. to PROF. GEOG, CENTRAL MICHIGAN, 53- U.S.A, 42-45. Asn. Am. Geog; Nat. Coun. Geog. Ed. Iron and steel industry of the United States; Great Plains of the United States; economic geography sub-Saharan Africa. Address: Dept. of Geography, Central Michigan University, Mt. Pleasant, Mich. 48858.

BRADBURN, DR. NORMAN M, b. Lincoln, Ill, July 21, 33; m. 56; c. 3. SOCIAL PSYCHOLOGY. B.A, Chicago, 53; B.A, Oxford, 55; M.A, Harvard, 58, Ph.D.(soc. psychol), 60. Asst. prof. BEHAV. SCI, CHICAGO, 60-65, ASSOC. PROF, 65-, DIR, NAT. OPINION RES. CENTER, 67-, sr. study dir, 61-67. Psychol. Asn; Sociol. Asn; Asn. Pub. Opinion Res. Survey research methodology; mental health. Publ: Co-auth, Reports on happiness, Aldine, 65; Achievement and English industrial growth, Econ. Develop. & Cultural Change, 61; auth, Achievement and father dominance in Turkey, J. Abnorm. & Soc. Psychol, 63. Address: National Opinion Research Center, University of Chicago, 6030 S. Ellis Ave, Chicago, Ill. 60637.

BRADBURY, PROF. ROBERT W(ESLEY), b. Louisville, Ky, Jan. 3, 05; m. 48; c. 2. ECONOMICS. A.B, Albion Col, 26; M.A, Michigan, 27, Ph.D.(econ), 37. Instr. econ, Michigan, 27-31; asst. prof. bus. admin, La. State, 31-37, assoc. prof, 39-41, prof. & dir. div. Latin Am. rels, 41-42; sr. econ. analyst, Am. Embassy, Panama City, Panama, 42-44, civil air attaché, Mex, 45-46; dean Am. Inst. For. Trade, Ariz, 46-47; spec. exec. rep, Pan Am. Airways, 47-50; PROF. ECON, FLORIDA, 50-52, 53- Dir. bur. res. & statist, State Dept. Labor, La, 37-39; economist, U.S. Dept. State, Wash, D.C, 44-45; Am. consul, Am. Consulate Gen, Sao Paulo, Brazil, 52-53; coordinator, Bolivian Econ. Proj, U.S. Dept. State, 59-60; Fulbright vis. prof, Nat. Univ. Asuncion, Paraguay, 59; summers, vis. Fulbright prof, Nat. Univ. Northeast, Argentina, 63, Found. Econ. Ed. fel, United Airlines, 56, transportation economist, Jacksonville Dist, Corps Engrs, U.S. Dept. Army, 57. Consult, Alcoa Steamship Co, 54-56. Hon. prof, Univ. San Andres, Bolivia; Nat. Univ. Asuncion, Paraguay. Econ. Asn. Latin American economics; ocean and air transportation; prospects of Latin American common market. Publ: Mexico, In: Worldmark Encyclop; El Comercio Internacional; ed, Second Bolivian economic seminar. Address: 501 S.W. 21st Ave, Gainesville, Fla. 32601.

BRADEN, DR. GAYLE ANDERSON, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRADEN, PRES. SAMUEL E(DWARD), b. Hoihow, China, June 6, 14; m. 37; c. 4. ECONOMICS. A.B, Oklahoma, 32; A.M, Wisconsin, 35, Ph.D, 41. From instr. to prof. econ. & v.pres, Indiana, 37-67; PRES, ILLINOIS STATE, 67- Fulbright res. award, Eng, 49-50. Consult, Off. Price Admin, 42; sr. economist, Combined Raw Mat. Bd, 42-43. U.S.A.A.F, 43-46, Lt. Econ. Asn. International economics; principles and problems of economics; economic problems of war. Publ: Co-auth, Economics, principles and problems; auth, Income from gold output in the sterling area, Anal. J; Frank D. Graham and the classical theory of international trade, J. Finance. Address: Illinois State University, Normal, Ill. 61761.

BRADERMAN, DR. EUGENE MAUR, b. Philadelphia, Pa, Aug. 27, 14; m. 41; c. 1. INTERNATIONAL ECONOMICS. B.S, Temple, 35; scholar, fel. & A.M, Illinois, 36, Ph.D, 38; Pennsylvania, 38-39. Mem. staff, Hist. Records Surv. & U.S. Dept. Labor, 39-42; asst. dir. Pan-Am. br, Bd. Econ. Warfare & For. Econ. Admin, 42-45; asst. to assoc. dir. & dir. off. int. trade, U.S. Dept. Commerce, 45-50, dep. dir, far east. div, bur. for. commerce, 50-53, dir, 53-61, dir. off. int. econ. progs, 61-62, dir. bur. int. commerce, 62-65; DEP. ASST. SECY. STATE, U.S. DEPT. STATE, 65- U.S. Dept. Commerce participant, sr. seminar for. affairs, U.S. Dept. State, 58-59. U.S. rep, Econ. Cmn. Asia & Far East, UN, chmn. U.S. del, cmt. trade, 61; Intellectual Property Conf, Stockholm, 67; mem. U.S. del, Gen. Agreement Tariffs & Trade, Orgn. Econ. Coop. & Develop, 61-62; President's Cmn. on Patent Syst, 65-66. Gold medal award for meritorious serv, U.S. Dept. Commerce, 65. International trade and economics. Address: 1630 45th St, N.W, Washington, D.C. 20007.

BRADFIELD, DR. KATHRYN NUSBAUM, b. Park Falls, Wis, Aug. 8, 30; m. 65. PSYCHOLOGY. B.A, Wisconsin, 58, M.Ed, 59; Nat. Inst. Ment. Health fel. & Ph.D.(exp. psychol), Colorado, 63. Clin. fel. PSYCHOL, N.Dak. State Hosp, Jamestown, 63-64; lectr, Jamestown Col, 64; asst. prof, North Dakota, 64-66; BEMIDJI STATE COL, 66-67, ASSOC. PROF, 67- Consult, N.Dak. State Hosp, Jamestown & Opportunity Center Ment. Retarded, Grand Forks, 64-65. AAAS; Psychol. Asn. Effects of early environment on later behavior; normal and abnormal paths of development. Publ: Novelty, complexity and affect stimulation in exploratory behavior, Perceptual & Motor Skills, 64; co-auth, Changes in rat behavior due to RNA injection, Physiol. & Behav, 66. Address: Dept. of Psychology, Bemidji State College, Bemidji, Minn. 56601.

BRADFIELD, DR. LEILA A, b. Basrah, Iraq, July 16, 26; m. 56; c. 2. SOCIOLOGY. B.Sc, Cornell, 55, M.Sc, 57, Ph.D.(rural sociol), 61. Res. asst. SOCIOL, indust. & labor rels. sch, Cornell, 63-64; Pa. State, 64; LECTR, WESTERN MICHIGAN, 67- Sociol. Asn; Rural Sociol. Soc; Soc. Appl. Anthrop. The family, cross cultural education; social change. Address: 149 Bulkley St, Kalamazoo, Mich. 49007.

BRADFIELD, DR. STILLMAN, b. Westerly, R.I, Aug. 30, 30; m. 56; c. 2. ANTHROPOLOGY. B.A, Cornell, 56, M.A, 57, Nat. Inst. Ment. Health grant, 61-63, Ph.D.(anthrop), 63. Asst. prof. ANTHROP, Pa. State, 63-65; ASSOC. PROF, KALAMAZOO COL, 65- Res. grants, Nat. Sci. Found, 64, Adv. Res. Projs. Agency & Wenner-Gren Found. Anthrop. Res, 66-68. U.S.A, 52-54. Anthrop. Asn; Soc. Appl. Anthrop; Asn. Latin Am. Studies. Migration; urban anthropology; industrial and economic development; cultural change. Publ: Some occupational aspects of migration, Econ. Develop. & Cultural Change, fall 65; Economic anthropology, In: Introduction to cultural anthropology; Houghton, Migration from Huayias: a study of brothers, In: Urban anthropology, Aldine. Address: Dept. of Anthropology, Kalamazoo College, Kalamazoo, Mich. 49001.

BRADFORD, DR. ERNEST S(MITH), Econ, see 9th ed, Soc. & Behav. Vols, deceased 65.

BRADFORD, DR. F(REDERICK) A(LDEN), b. Danbury, Conn, Oct. 4, 97; m. 26. ECONOMICS. A.B, Michigan, 21, A.M, 23, Ph.D, 26. Asst. prof. econ, Lehigh, 26-29, assoc. prof, 29-35, prof, 35-65, head dept. finance, 36-65; RETIRED. V.pres. & asst. treas, Economists' Nat. Cmt. Monetary Policy. Econ. Asn; Finance Asn. Monetary policy; international finance. Publ: Money; Banking; Money and banking. Address: Dept. of Finance, Lehigh University, Bethlehem, Pa. 18015.

BRADFORD, PROF. LAWRENCE A(LLEN), b. Flemingsburg, Ky, Jan. 17, 95; m. 18; c. 5. AGRICULTURAL ECONOMICS. B.S, Kentucky, 17, M.S, 39. County agent, Kentucky, 18-19; teacher, high schs, Ky, 21-35; state supvr. farm mgt, farm security admin, U.S. Dept. Agr, 35-38; prof. FARM ECON, KENTUCKY, 38-65, EMER. PROF, 65- Fel, Int. Conf. Agr. Econ; fel. Farm Econ. Asn. Farm management; cost accounting. Publ: Co-auth, Farm management analysis. Address: Dept. of Farm Economics, College of Agriculture & Home Economics, University of Kentucky, Lexington, Ky. 40506.

BRADFORD, DR. LELAND P(OWERS), b. Chicago, Ill, July 12, 05; m. 33; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Illinois, 30, A.M, 35, Ph.D.(ed. psychol), 39. Instr. ed. psychol, Illinois, 37-41; state dir. training, Works Progress Admin, Ill, 41-43; chief training, U.S. Immigration & Naturalization Serv, 43-44; Fed. Security Agency, 44-45; dir. Adult Ed. Serv. Ed. Asn, 45-62, nat. training labs, 47-62, EXEC. DIR. & FEL, NAT. TRAINING LABS-INST. APPL. BEHAV. SCI, 66- Coordinator res. & training, Adult Ed. Asn, 51- Consult, European Productivity Agency, France, 55. Trustee, Lesley Col. Secy, int. comt. adult ed, World Confedn. Orgns. of Teaching Profession, 59- Fel. Psychol. Asn. Group dynamics; human relations training theory; adult education. Publ: Co-ed, Group theory and laboratory method, Wiley, 64; auth, Effect of practice upon standard errors of measurement, Psychol. Monogr; Characteristics of groups basic to adult education, Rev. Ed. Res. Address: 1201 16th St. N.W, Washington, D.C. 20036.

BRADFORD, PROF. REED H(OWARD), b. Spanish Fork, Utah, Apr. 10, 12. SOCIOLOGY. A.B, Brigham Young, 37; A.M, La. State, 39; fel, Harvard, 39-41, A.M, 41, Ph.D, 46. Assoc. prof. SOCIOL, West Virginia, 42-43, 45-46; from asst. prof. to PROF, BRIGHAM YOUNG, 46-, chmn. dept, 55-61, acting dean col. humanities & soc. sci, 59-62. Vis. prof, Mich. State Col, 50; res. specialist, Univ. Utah, 63-64. Sociol. Asn; Rural Sociol. Soc; Acad. Polit. & Soc. Sci. Marriage and the family; rural sociology. Publ: Co-auth, Marriage and the Latter Day Saint & Utah population—distribution, composition and characteristics. Address: Dept. of Sociology, Brigham Young University, Provo, Utah 84601.

BRADFORD, DR. ROBERT L(aROY), b. Burlington, N.J, Jan. 30, 35; m. 59; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Colgate, 57; M.A, Yale, 58, Ph.D.(int. rels), 65. Instr. govt, New Hampshire, 61-63; asst. prof. POLIT. SCI, SUSQUEHANNA, 63-66, ASSOC. PROF, 66-, CHMN. DEPT, 65- African Studies Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci; Royal African Soc. African studies, especially southwest Africa; mandate system of League of Nations. Publ: Chap, In: Southwest Africa: travesty of trust, Andre Deutsch, London, 67. Address: Dept. of Political Science, Susquehanna University, Selinsgrove, Pa. 17870.

BRADFORD, PROF. WILLIAM C(ASTLE), b. Itta Bena, Miss, July 31, 10; m. 36; c. 2. ECONOMICS. B.S, Syracuse, 42, A.M, 44; fel, Harvard, 45-47, A.M, 46, Ph.D, 47. Asst. dean, Harvard, 46-47; assoc. prof. BUS. ECON, NORTHWESTERN, 47-54, PROF, 55-, ASSOC. DEAN FACULTIES, 63-, asst. dean, 59-63. Consult, Fed. Res. Bank; Bell Tel. Co, Ill; Bur. Naval Personnel, 67-69. Trustee, Joint Coun. Econ. Ed. Navy Distinguished Pub. Serv. award, 62. Econ. Asn; Finance Asn. Social control of industry; business economics; business and government. Publ: Business economics; principles and cases. Address: Dept. of Business Economics, School of Business, Northwestern University, Evanston, Ill. 60201.

BRADISH, PROF. RICHARD D, b. Yakima, Wash, Aug. 29, 23; m. 57; c. 2. ACCOUNTING, FINANCE. B.S, Washington (Seattle), 50, M.B.A, 58, D.B.A, 63. Cert. pub. acct, Haskins & Sells, 53-58; instr. acct, Washington (Seattle), 59-62; assoc. prof, Rutgers, 62-64; prof. acct. & finance, Clarkson Tech, 64-68; PROF. ACCT. & QUANT. ANAL. & CHMN. DEPT, SACRAMENTO STATE COL, 68- Consult, Haskins & Sells, 62-65. U.S.A, 43-45. Am. Acct. Asn; Inst. Cert. Pub. Acct; Arbit. Asn. Annual corporate financial reports. Publ: Corporate reporting and the financial analyst, Acct. Rev, 10/65; Course content in elementary accounting, Collegiate News & Views, 5/67. Address: School of Business Administration, Sacramento State College, 6000 Jay St, Sacramento, Calif. 95819.

BRADLEY, PROF. C. PAUL, b. Eaton Rapids, Mich, July 20, 18; m. 58; c. 2. POLITICAL SCIENCE. A.B, Yale, 47; M.A, Columbia, 49, Ph.D.(polit. sci), 55. Lectr. POLIT. SCI, Puerto Rico, 52-54; instr, Iowa State Teachers Col, 54-55; asst. prof, Oberlin Col, 55-56; FLINT COL, MICHIGAN, 56-61, from assoc. prof. to PROF, 61- U.S.A.A.F, 41-46, Capt. Polit. Sci. Asn. Political parties in the British West Indies, especially Jamaica and British Guiana; foreign policy of Federation of Malaya. Publ: Mass parties in Jamaica, Soc. & Econ. Studies; Party system in British Guiana and the general election of 1961, Caribbean Studies. Address: Dept. of Political Science, Flint College, University of Michigan, 1321 E. Court St, Flint, Mich. 48503.

BRADLEY, PROF. CHARLES E(MERY), Econ, Statist, see 10th ed, Soc. & Behav. Vols.

BRADLEY, PROF. E(LLIE) R(AWDON), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BRADLEY, HARRY R, b. Tonopah, Nev, May 1, 23; m. 47; c. 3. ECONOMICS. B.A, California, Los Angeles, 48; Columbia, 49-51, Kazanjian Econ. Found. scholar, 50-51. Economist & syst. analyst, Rand Corp, 50-57; TEMPO Center Adv. Studies, Gen. Elec. Co, 57-64, mgr. environ. anal, tech. & bus. planning, nuclear energy div, 64-66; DIR. RES, JOHNSON RES. ASSOCS, GOLETA, 66- U.S.A, 44-46, Sgt. Econ. Asn; World Future Soc. Forecasting; planning; systems analysis; operations research. Address: 5343 Paseo Orlando, Santa Barbara, Calif. 93105.

BRADLEY, DR. HUGH E(DWARD), Opers. Res, see 11th ed, Phys. & Biol. Vols.

BRADLEY, PROF. JACK IRVING, b. South Pasadena, Calif, Sept. 25, 21; m. 41; c. 4. PSYCHOLOGY. A.B, Los Angeles State Col, 49; M.A, Occidental Col, 50; Ph.D, Claremont Cols, 59. Asst. prof. PSYCHOL, CALIF. STATE COL. LONG BEACH, 52-59, assoc. prof, 59-63, PROF, 63- Consult, Los Angeles Times, 51-52; Rheem Mfg. Co, 59-60; Autonetics Div, N.Am. Rockwell Corp, 66- AAAS; Psychol. Asn. Fundamental learning processes; programmed teaching; human factors. Publ: Co-auth, Basic statistical concepts, Scott, 63; Pre-solution trial in discrimination learning. Address: Dept. of Psychology, California State College at Long Beach, Long Beach, Calif. 90815.

BRADLEY, DR. JAMES V(ANDIVER), b. Anderson, S.C, Jan. 6, 24. PSYCHOLOGY. B.A, Washington & Lee, 47; M.A, Virginia, 49; Ph.D.(exp. psychol), Purdue, 62. Phys. sci. aide, Nat. Adv. Cmt. Aeronaut, 51-52; res. psychologist, aerospace med. res. labs, Wright-Patterson Air Force Base, Ohio, 52-66; math. statistician, Dept. Health, Ed. & Welfare, D.C, 66-67; res. assoc. psychol, behav. res. lab, Antioch Col, 67-68; ASSOC. PROF. PSYCHOL. & MATH, NEW MEXICO STATE, 68- U.S.A, 43-46. Statist. Asn; Psychonomic Soc. Decision processes; probability and statistics; history and philosophy of scientific method. Publ: Distribution free statistical tests, Prentice-Hall, 68; Complete counterbalancing of immediate sequential effects in a Latin square design, J. Am. Statist. Asn, 58; Rank order correlation scatter diagrams without plotting points, Am. Statistician, 63. Address: Dept. of Psychology, New Mexico State University, Las Cruces, N.Mex. 88001.

BRADLEY, DR. JOHN A, b. Uniontown, Pa, Nov. 17, 22. GEOGRAPHY. B.S, Pennsylvania State Teachers Col, California, 47; univ. fel, Northwestern, 47-48, M.S, 48, Ph.D.(geog), 53. Res. assoc, Off. Naval Res, Northwestern, 52-53; asst. prof. geog, Pittsburgh, 53-56; GEOG. SPECIALIST, AM. EMBASSY, Tokyo, 56-62; Bangkok, 62-67; TOKYO, 67- Cartog. adv, UN Map Info. Off, Bangkok, 65- U.S.A.F, 43-46; U.S.A, 51-52. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Urban geography; aerial photo interpretation; geography of Far East. Address: American Embassy, APO San Francisco 96503.

BRADLEY, DR. JOSEPH E, b. Wanaque, N.J, Oct. 14, 20; m. 54. EXPERIMENTAL PSYCHOLOGY. B.S, Minnesota, 48; M.A, Oregon, 50; Ph.D.(psychol), Pa. State, 53. Asst. psychol. statist, Pa. State, 50-53; exp. psychologist, Qm. Corps, Food & Container Inst, 53-54; sr. mkt. res. analyst, Pillsbury Mills, Inc, 54-57, mgr. exp. design & math. res. dept, Pillsbury Co, 57-61; DIR. MKT. RES, THOMAS J. LIPTON, INC, 62- U.S. Merchant Marine, 41-44. AAAS; Psychol. Asn. Psychological statistics; attitude and opinion research; psychophysics. Address: Thomas J. Lipton, Inc, 800 Sylvan Ave, Englewood Cliffs, N.J. 07632.

BRADLEY, PROF. JOSEPH F(RANCIS), b. Locust Gap, Pa, July 22, 17; m. 40; c. 2. FINANCE. B.A, Pa. State Col, 39, M.A, 40; Ph.D.(finance), Pittsburgh, 48. Prof, West Liberty Teachers Col, 42-43; instr, Pittsburgh, 46-47; assoc. prof. FINANCE, PA. STATE, 50-59, PROF, 59- Economics. Publ: Fundamentals of corporation finance; Administrative financial management, Holt, 64; The role of trade associations and professional business societies in America, Pa. State, 65. Address: 637 W. Beaver Ave, State College, Pa. 16801.

BRADLEY, PROF. LeJEUNE PLATTNER, b. Auburn, Ga, Nov. 22, 21; m. 61; c. 3. PSYCHOLOGY, EDUCATION. A.B, Georgia, 47; M.S, Indiana, 48, fel, 48-49, Ed.D.(guid), 51. Admin. asst, Atlanta Gen. Depot, U.S. Dept. Army, Ga, 40-42; asst. to dean sch. ed, Indiana, 48-49; dean men, Auburn, 49-50; asst. prof. bus. admin, GA. STATE COL, 51-56, assoc. prof. BUS. ED, 56-66, PROF, 66-, dir. guid, 51-67. Consult, internal revenue serv, U.S. Treas, 64-68; polit. consult, Republican del, DeKalb County, Ga, 65-67; consult, chapter 99, Fed. Savings & Loan Asn, Ga, 66-; Ga. Inst. Tech, 67-68; Am. Inst. Banking, Ga, 67- Ed, Ga. Bus. Ed. Asn. Armchair Bull, 67-68. U.S.N, 42-46, Res, 47-, Comdr. Fel. AAAS; Psychol. Asn; Nat. Voc. Guid. Asn; Personnel & Guid. Asn; Nat. Bus. Ed. Asn; Voc. Asn. Adult reading techniques; business communications and report writing; counseling and guidance techniques. Publ: The office of the dean of students, In: Studies in education, No.3, Indiana Univ, 52; co-auth, Guidance problems and procedures in business education, In: The American business yearbook, Somerset, 54; auth, A reading improvement text, In: RC-Se training 41, IRS, U.S. Treas. Dept, 65. Address: Dept. of Business Education, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

BRADLEY, PROF. PHILLIPS, b. Lincoln, Mass, Sept. 20, 94. POLITICAL SCIENCE. A.B, Harvard, 16; Geneva, 29-30; Ph.D, London, 36. Assoc. prof, Amherst Col, 21, 25-38; Vassar Col, 21-22, Wellesley Col, 22-25; prof. polit. sci, Queens Col.(N.Y), 38-46; prof. & dir, inst. labor. & indust. rels, Illinois, 46-49, prof. POLIT. SCI, 49-50; Maxwell Grad. Sch. Citizenship & Pub. Affairs, Syracuse, 50-57; prof. Indian Sch. Int. Studies, 57-59; EMER. PROF, SYRACUSE, 59- Prof. secy. & dir. exten, N.Y. State Sch. Indust. & Labor Rels, 45-46; lectr, Delhi & Indian Inst. Pub. Admin, 58-59; vis. prof. Grinnell Col, 64-65; Berea Col, 65-66, William J. Hutchins lectr, 66-67; Lewis M. Stevens prof, Lincoln (Pa), 67-69. Pub. Affairs officer, U.S. Info. Serv, Kathmandu, 59-61, chief cultural affairs officer, Bombay, 61-64; arbitrator, Fed. Mediation & Conciliation Serv. Consult, U.S. Dept. Agr; U.S. Bur. Census; Ill. Civil Serv. Cmn; New York Civil Serv. Cmn. Trustee Queens Borough Pub. Library, 35-46; Dillard, 38-46; Flushing Savings Bank, 43-45; Le Moyne Col.(Tenn), 49-57. U.S.N, 17-19. Arbit. Asn. Public and international administration; legislatures; labor-management relations. Publ: American isolation reconsidered; ed, Democracy in America & American government in action. Address: Sargentville, Maine 04673.

BRADLEY, DR. RALPH A(LLAN), Statist, see 11th ed, Phys. & Biol. Vols.

BRADLEY, DR. VIRGINIA, b. San Marcos, Tex, July 30, 15. GEOGRAPHY. B.Sc, Southern Methodist, 37; M.A, Nebraska, 38; Gen. Ed. Bd. fel, Chicago, 46-47, 47-48, Ph.D, 49. Asst. geog. & geol, SOUTHERN METHODIST, 38-39, secy, Dallas Col, 39-43, instr. geol. & geog, univ, 43-46, asst. prof. GEOG, 46-56, ASSOC. PROF, 56- Asn. Am. Geog; fel. Geog. Soc. Land use patterns in three central Texas counties; petroleum industry of the Gulf Coast salt dome area. Address: Division of Geography, Dept. of Geological Sciences, Southern Methodist University, Dallas, Tex. 75222.

BRADLEY, DR. WILLIAM A(RTHUR, JR), b. Camden, N.J, Feb. 18, 04; m. 49. PSYCHOLOGY. B.S, Pa. State, 31; Ed.M, Temple, 35, Ed.D.(psychol), 43. Assoc. prof, Rider Col, 48-51; head psychophysiologist, aviation med. acceleration lab, U.S. Naval Aviation Develop. Center, 51-52, psychologist & training dir, 52-57, eng. psychologist, 57-65; res. psychologist, aviation med. res. dept, 66; ASSOC. PROF. biol, MONTGOMERY COUNTY COMMUNITY COL, 66-67, PSYCHOL, 67- Dir, Bradley Counseling Serv, 47- Psychol. Asn. Medical and research psychology; psychotherapy; marital and vocational guidance; psychological testing. Publ: Correlates of vocational preferences, Genetic Psychol. Monogr; Vocational rehabilitation; Psychological study of catapult panels. Address: Box 255, Ridge Rd, R.D. 2, New Hope, Pa. 18938.

BRADSHAW, DR. BARBARA ROBINSON, b. Denver, Colo, Mar. 18, 30; div; c. 2. SOCIOLOGY. B.A, Denver, 52; M.A, Northwestern, 56; fel, North Carolina, 60-63, Ph.D.(sociol), 67. Prog. dir. group soc. work, West End Neighborhood House, Del, 53-54; teaching asst. sociol, Northwestern, 54-56; instr. Kendall Col, 56-57; Ill. Inst. Tech, 57; dir. serv. soc. work, Lower North Center, Chicago, 57-60; ASST. PROF. SOCIOL, GOUCHER COL, 63- Consult, Baltimore Neighborhoods, 63-; Baltimore County League Human Rights, 65-; cardiac rehab. proj, Upland State Med. Center, Syracuse Univ, 65-67. Sociol. Asn. Mental health; health and the health professions; poverty; activism among clergymen; welfare recipients; black power. Publ: Co-auth, Open occupancy and open minds: a study of realtors, Interracial Rev, 4/66. Address: Dept. of Sociology, Goucher College, Baltimore, Md. 21204.

BRADSHAW, DR. HOMER LESLIE, b. Pomeroy, Ohio, July 30, 22; m. 49. EDUCATIONAL & DEVELOPMENTAL PSYCHOLOGY. B.S, Ohio, 51; M.A, Ohio State, 52, Ph.D.(ed. & develop. psychol), 56. Asst. prof. PSYCHOL, OHIO, 56-62, ASSOC. PROF, 62- Participant, legis. provisions for except. children, U.S. House Rep, 60; U.S. Agency Int. Develop. ed. adv, Univs. Hue & Saigon, 62-64. U.S.A, 42-45. Psychol. Asn. Identification and provisions for gifted pupils; training programs for school psychologists; adjustment in old age; characteristics of college teachers; effects of Greek and social fraternities on the academic promising students. Publ: Differentia of superior old people, J. Geront. Address: Dept. of Psychology, Ohio University, Athens, Ohio 45701.

BRADSHAW, PROF. MARY E(LOISE), Int. Rels, see 10th ed, Soc. & Behav. Vols.

BRADSHAW, PROF. WILLIAM L(EONARD), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 64.

BRADSHER, PROF. JULIAN H(ILL), b. Florence, S.C, Nov. 12, 13; m. 40; c. 2. ECONOMICS. A.B, South Carolina, 35; M.A, Colorado, 39; Ph.D, California, 59. Instr. ECON, Mills Col, 46-47; assoc. instr, California, 47-48; assoc. prof, OKLA. STATE, 48-66, PROF, 66- Summers, assoc. dir, Nat. Sci. Found. Inst. Econ. Ed, Okla. State, 67; consult, dept. bus. & econ, Okla. Col. Lib. Arts, 67. U.S.A, 44-46. Econ. Asn; Asn. Latin Am. Studies. Land reform and tenure; Latin American economic development. Address: Dept. of Economics, Oklahoma State University, Stillwater, Okla. 74075.

BRADT, DR. KENNETH H(AROLD), b. Oakfield, N.Y, Mar. 18, 28; m. 48; c. 3. PSYCHOLOGY. A.B, Syracuse, 48, M.A, 50; Ph.D.(psychol), Northwestern, 51. PSYCHOLOGIST, U.S. GOVT, 54- Assoc. prof. lectr, George Washington, 62- Private practice. U.S.A, 52-54, Lt. AAAS; Psychol. Asn. Personnel selection and assessment; counseling; attitude studies; personnel development; behavior under stress. Address: 10115 Blue Coat Dr, Fairfax, Va. 22030.

BRADWAY, DR. KATHERINE P(RESTON), b. Milwaukee, Wis, Nov. 17, 10; m. 35. PSYCHOLOGY. B.A, Minnesota, 31, M.A, 33; Ph.D.(psychol), Stanford, 42. Consult. psychologist, psychiat. serv, San Francisco City Clin, Calif, 43-44, 45-46; chief child guid. clin, San Mateo County Health Dept, 44-45; clin. psychologist, child guid. clin, Childrens Hosp, San Francisco, 46-47; acting assoc. prof. PSYCHOL, STANFORD, 47-55, ASSOC. CLIN. PROF, 55-, chief psychologist, univ. hosp, 47-54. Consult, 45- Clin. psychologist, Alexander Sanitarium, Belmont, Calif, 44-45. Psychol. Asn; Int. Asn. Anal. Psychol. Growth of intelligence; Jungian analysis. Publ: Preschool IQ's after twenty-five years, 10/58 & Intelligence at adulthood, 2/62, J. Ed. Psychol; Jung's psychological types, J. Anal. Psychol, 7/64. Address: 2206 Steiner St, San Francisco, Calif. 94115.

BRADY, PROF. ALEXANDER, b. Kilkenny, Ireland. POLITICAL ECONOMY. B.A, Oxford; M.A. & Ph.D, Toronto; LL.D, Queen's (Ont), 61. Lectr. hist, United Col, 21-24; from lectr. to EMER. PROF. POLIT. ECON, TORONTO, 24- Mem, Ont. Adv. Cmt. Confedn, 65- Fel. Royal Soc. Can. Political science; modern economic and political development; relations of the state to economic and social life: comparative federalism. Publ: Democracy in the dominions, Univ. Toronto, 3rd ed, 58; Huskisson and liberal reform, Cass, 2nd ed, 67. Address: Dept. of Political Science, University of Toronto, Toronto, Ont, Can.

BRADY, PROF. EUGENE ALLEN, b. Chicago, Ill, Mar. 30, 30; m. 54; c. 2. ECONOMICS. B.A, Washington (Seattle), 52, M.A, 54; Real Estate Res. fel, California, Berkeley, 58-59, Earhart Found. fel, 59-60, Ph.D.(econ), 61. Teaching asst. econ. hist, Washington (Seattle), 53-54; ECON, California, Berkeley, 56-59; instr, IOWA STATE, 60-61, asst. prof, 61-64, assoc. prof, 64-67, PROF, 67- Vis. Fulbright prof, sch. adv. int. studies, Hopkins, Bologna, Italy, 67-68. Consult, Eng. Consult, Inc, Bangkok, Thailand, 63; adv, Nat. Planning Inst, Lima, Peru, 64-66. U.S.A.F, 54-56, 1st Lt. Econ. Asn; Economet. Soc. Macroeconomic theory and policy; economic development; econometrics; residential housing. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50010.

BRADY, PROF. HELENA REAL (MRS. GENE P. BRADY), b. Havana, Cuba, Aug. 18, 32; U.S. citizen; m. 58. INTERNATIONAL RELATIONS. B.S, Fordham, 52, fel. & M.A, 54; fel, Pennsylvania, 57-60; N.Y. State scholar, State Univ. N.Y, 65-66, summer, 66 & grant, summer, 67. Asst. prof. econ. & hist, Rosemont Col, 54-57; assoc. prof. hist. & polit. sci, Marymount Col, 60-66; PROF. INT. RELS. & AREA STUDIES & CHMN. DEPT. HIST. & SOC. SCI, GOOD COUNSEL COL, 65-, part-time, 63-65. Adv, Conf. U.S. For. Policy, U.S Mil. Acad, 63-65, chmn, 66-67; dir, Monument Cmt, 66- Acad. Polit. & Soc. Sci; Hist. Asn; Asia Soc; Mid. East Inst; Latin Am. Studies Asn; African Studies Asn. Area studies; history of Latin America and the Far East. Publ: Nationalism in Latin America; Political and economic development of the emerging nations; Moroccan invasions into the Songhai Empire in 1591. Address: Dept. of History & Social Sciences, Good Counsel College, White Plains, N.Y. 10603.

BRADY, DR. JOHN PAUL, b. Boston, Mass, June 23, 28; m. 62; c. 4. PSYCHIATRY, EXPERIMENTAL PSYCHOLOGY. A.B, Boston 51, M.D, 55. Res. psychiatrist, Inst. Psychiat. Res, Indiana Univ. Med. Center, 59-63; assoc. prof. PSYCHIAT, SCH. MED, PENNSYLVANIA, 63-67, PROF, 67- Nat. Inst. Ment. Health res. career develop. award, 64-; consult, coun. drugs, Am. Med. Asn, 64- U.S.N, 46-48. Psychiat. Res. Soc; Soc. Biol. Psychiat; Asn. Adv. Behav. Ther. Conditioning; hypnosis. Publ: Co-auth, An introduction to the science of human behavior, Appleton, 63; auth, Nystagmus as a criterion of hypnotically induced hallucinations, Science, 64 & Brevital-relaxation treatment of frigidity, Behav. Res. & Ther, 66. Address: Hospital of University of Pennsylvania, Philadelphia, Pa. 19104.

BRADY, DR. JOSEPH V(INCENT), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

BRADY, DR. PAUL T, b. Bronxville, N.Y, Dec. 28, 36; m. 63. COMMUNICATIONS, ELECTRICAL ENGINEERING. B.E.E, Rensselaer Polytech, 58; M.S, Mass. Inst. Tech, 60, Ph.D.(elec. eng), N.Y. Univ, 66. MEM. STAFF, Mass. Inst. Tech, 60-61; Sylvania Appl. Res. Lab, Waltham, Mass, 61; BELL TEL. LABS, 61- Acoustical Soc. Am. Statistical models of two-way conversation on-off patterns and of speech level distributions, and communication with computers in real-time. Publ: Technique for investigating on-off patterns of speech, 65, A statistical basis for objective measure-

ment of speech levels, 65 & A statistical analysis of on-off patterns in 16 conversations, 68, Bell Syst. Tech. J. Address: 91 Marcshire, Middletown, N.J. 07748.

BRADY, PROF. ROBERT A(LEXANDER), Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

BRADY, DR. ROLAND W, b. Butler, Pa, Dec. 7, 35. ECONOMICS. B.A, Ohio State, 60, M.A, 62, Ph.D.(econ, finance), 64. Instr. econ. & coordinator statist, OHIO STATE, 60-64, dir. data processing, 64-67, ASSOC. PROVOST, 68- Consult, State of Ohio, Int. Bus. Mach. Corp, Nat. Cash Register Co, & various univs, 64. Econ. Asn; Statist. Asn. Address: Room 53, Administration Bldg, Ohio State University, 190 N. Oval Dr, Columbus, Ohio 43210.

BRAEN, DR. BERNARD B(ENJAMIN), Psychol, see 10th ed, Soc. & Behav. Vols.

BRAFF, PROF. ALLAN J(AMES), b. New York, N.Y, Feb. 21, 30; m. 52; c. 2. ECONOMICS, STATISTICS. A.B, Rochester, 51; M.B.A, Columbia, 53; Ford Found. fel, Wisconsin, 58-59, Ph.D, 59. Asst. prof. ECON, West Virginia, 59-63; Northwestern, 63-65; ASSOC. PROF, NEW HAMPSHIRE, 65- Fulbright exchange scholar, Dublin, Ireland, 67-68. Econ. Asn; Statist. Asn; Economet. Soc. Economic theory; quantitative analysis; wage and price determination. Publ: Co-auth, Wage price policies under public pressure, South. Econ. J. Address: Whittemore School, University of New Hampshire, Durham, N.H. 03824.

BRAGG, PROF. EMMA WHITE, b. Nashville, Tenn, Oct. 6, 11; m. 45. EDUCATIONAL PSYCHOLOGY. B.A, Fisk, 32, fel, 32-33, M.A, 33; Ph.D, Chicago, 52. Registr. & dir. admissions, Meharry Med. Col, 38-48; assoc. prof. human develop. & dir. freshmen, W.Va. State Col, 52-53; prof. ed. & dean women, Langston, 53-54; prof. ed. & dir. acad. counseling, Texas Southern, 54-55; assoc. prof. ed. & psychol, Fisk, 55-56, 57-59; counsr, pub. schs, Ariz, 56-57; assoc. prof. psychol, North Carolina, 59-60; prof. psychol. & head dept, Ala. State Col, 61-65; PROF. counseling psychol, Tuskegee Inst, 65-67; PSYCHOL, TENNESSEE STATE, 67- Consult, Phelps-Stokes Fund, 58-59; div. higher ed, U.S. Off. Ed, 64; OMPER Proj, Tuskegee Inst, 66-67; Ala. Tech. Corp, 66-67; adult basic ed. workshop, Missouri, summer, 67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 64. Psychol. Asn; Personnel & Guid. Asn; Acad. Polit. & Soc. Sci. Counseling and guidance; intelligence testing and color differences; factors of student withdrawal. Publ: Study of student withdrawal, J. Ed. Psychol; Pilot study of midterm marks, J. Higher Ed. Address: 707 Ringgold Dr, Nashville, Tenn. 37207.

BRAGG, PROF. JOHN H(OWARD), b. Longmeadow, Mass, Apr. 7, 25; m. 47; c. 5. AGRICULTURAL ECONOMICS, BUSINESS MANAGEMENT. B.S, Maine, 48, M.S, 49; Charles H. Hood Found. & Mass. Soc. Promoting Agr. fels, Indiana, 61-62, D.B.A, 66. Agr. asst, Fed. Reserve Bank of Boston, 49-51, agr. statistician, 51-55; asst. prof. mkt, MASSACHUSETTS, 55-68, ASSOC. PROF. BUS. MGT, 68- Mem. agr. cmt, Fed. Reserve Syst, 50-55. U.S.A.A.F, 45-47. Mgt. Asn. Economic analysis of and adjustments in New England agriculture; analysis of changing distribution patterns and selling techniques for dairy products; application of automation techniques in small dairy plants. Publ: Co-auth, Automated Clean-in-place procedures for small plants, Am. Milk Rev; Agriculture in New England, In: Economic state of New England; auth, Having too much turnover in help, Hoard's Dairyman, 1/68. Address: Dept. of Agriculture & Food Economics, University of Massachusetts, Amherst, Mass. 01002.

BRAGIEL, RAYMOND MARTIN, Psychol, see 10th ed, Soc. & Behav. Vols.

BRAHAM, DR. RANDOLPH LEWIS, b. Rumania, Dec. 20, 22; nat; m. 53; c. 2. POLITICAL SCIENCE, ECONOMICS. M.S, City Col. New York, 49; Ph.D, New Sch. Soc. Res, 52. Res. assoc, Mid-European Studies Center, N.Y, 53-56; instr. SOC. SCI, Fairleigh Dickinson, 56-59; ASSOC. PROF, CITY COL. NEW YORK, 59- Polit. Sci. Asn; Asn. Adv. Slavic Studies. People's democracies of Eastern Europe; the Sino-Soviet bloc; European Jewry during the Nazi era. Publ: Co-auth, European political systems; ed, Destruction of Hungarian Jewry: a documentary account, World Fed. Hungarian Jews, 63; Soviet politics and government, Knopf, 64. Address: 114-07 Union Turnpike, Forest Hills Gardens, N.Y. 11375.

BRAIBANTI, PROF. RALPH, b. Danbury, Conn, June 29, 20; m. 43; c. 2. POLITICAL SCIENCE. B.S, Conn. State Col, 41; A.M, Syracuse, 47, Maxwell fel, 47-49, Ph.D, 49. Asst. prof. POLIT. SCI, Kenyon Col, 49-50, assoc. prof, 51-53; DUKE, 53-59, prof, 59-68, JAMES B. DUKE DISTINGUISHED PROF, 68- Ford Found. fel, 53-54; Soc. Sci. Res. Coun. grant, 59-60. Consult, Govt. Affairs Inst; U.S. Army War Col, 55-59; U.S. Agency Int. Develop. & Cent. Treaty Orgn, Pakistan & Turkey, 66-67; polit. adv. to civil adminstr, Ryukyu Islands, 51; chief adv, Civil Serv. Acad, Pakistan, 60-62. Mil. Intel, 42-47, Res, 47-, Capt. Polit. Sci. Asn; Asn. Asian Studies; Soc. Polit. & Legal Philos. Comparative government of Asia, especially India and Pakistan; political and administrative development theory. Publ: Co-auth, Bureaucracy and political development, Princeton, 63; auth, Asian bureaucratic systems emergent from the British imperial tradition, 66 & Research on the bureaucracy of Pakistan, 66, Duke. Address: Dept. of Political Science, Duke University, Durham, N.C. 27706.

BRAIDWOOD, PROF. ROBERT J(OHN), b. Detroit, Mich, July 29, 07; m. 37; c. 2. ANTHROPOLOGY. A.B, Michigan, 32, A.M, 33; Ph.D.(archaeol), Chicago, 42. Archit. draftsman & bldg. supvr, Smith, Hinchman & Grylls, Mich, 28-29; surveyor & artist, Univ. Michigan Exped, Iraq, 30-31, artist & draftsman, 31-33; topog. surveyor, CHICAGO, 33, field asst, ORIENTAL INST, Syria, 33-38, pub. asst, 38-44, asst. prof. ANTHROP, 44-47, assoc. prof, 48-54, PROF, 54-, FIELD DIR. PREHIST. PROJS, 47-, Iraq, 47-59, Iran, 59-62, Turkey, 62- Nat. Sci. Found. res. grant. Nat. secy, Int. Cong. Prehist. & Protohist. Sci. Fel. Nat. Acad. Sci; fel. Am. Acad. Arts & Sci; fel. Philos. Soc; Anthrop. Asn; Archaeol. Inst; Brit. Prehist. Soc. Development of village society in the old world. Address: Oriental Institute, University of Chicago, Chicago, Ill. 60637.

BRAIMAN, DR. ALEX, b. Brooklyn, N.Y, Aug. 21, 26; m. 54; c. 6. PSYCHIATRY. B.A, Brooklyn Col, 46; M.A, Columbia, 47; M.D, State Univ. N.Y, 51. Trainee clin. psychol, Vet. Admin. Ment. Hyg. Clin, New York, 46-47; asst. PSYCHIAT, MED. CENTER, ROCHESTER, 52-55, instr, 55-58, sr. instr, 58-60, asst. prof, 60-64, ASSOC. PROF, 64-, CLIN. ASSOC. PSYCHOL, 62- Nat. Insts. Health career teacher award, 60-62. U.S.A.A.F, 45. Psychiat. Asn; Col. Health Asn. Normal development and psychopathology of adolescence; student mental health—colleges and universities. Publ: Co-auth, College phobia: school refusal in university students, Am. J. Psychiat, 2/65; auth, Riotous behavior in the college: a psychosocial view, 4/66 & Therapeutic uses of the university, 10/67, J. Am. Col. Health Asn. Address: University of Rochester Medical Center, 260 Crittenden Blvd, Rochester, N.Y. 14620.

BRAINARD, PROF. HARRY G(RAY), b. Rochester, N.Y, Aug. 16, 07; m. 36. ECONOMICS. B.S, North Carolina, 30, M.S, 31; Ph.D, Illinois, 36. Asst. prof, The Citadel, 35-37; head dept. econ, Southern Illinois, 37-42; economist, Off. Price Admin, 42-45; from assoc. prof. to PROF. ECON, MICH. STATE, 46-, acting head dept, 60-61, acting dir. div. res, grad. sch. bus, 66. Vis. prof, Arizona, 62; prof, Naval War Col, 65-66. Consult. Mich. State-Agency Int. Develop contract, Ministry Ed, Turkey, 67-69. Econ. Asn. Publ: International economics and public policy; Economics in action. Address: Dept. of Economics, Michigan State University, East Lansing, Mich. 48823.

BRAINE, DR. MARTIN D(IMOND) S(TEWART), Psychol, see 10th ed, Soc. & Behav. Vols.

BRAINERD, DR. CAROL P(AXSON), b. Swarthmore, Pa, June 16, 05; m. 30. ECONOMICS. A.B. & Mott fel, Swarthmore Col, 26; A.M, Radcliffe Col, 28; Ph.D.(econ), Pennsylvania, 50. Res. & statist. work in penol, 30-38; from tech. adv. to dir. Works Progress Admin. proj, U.S. Bur. Labor Statist, 39-43, statistician, 43-45; consult, govt. div, U.S. Bur. Census, 46-48; analyst & ed. surv. patterns & factors labor mobility, Soc. Sci. Res. Coun, 52-53; RES. ASSOC. INDUST. RES. UNIT, PENNSYLVANIA, 53- Econ. Asn; Statist. Asn. Labor force analysis, patterns of development and occupational mobility; development and composition of government employment and payrolls, especially at state and local levels. Publ: Co-auth, Labor force estimates, In: Population redistribution and economic growth, Vol. I, Am. Philos. Soc, 57; auth, Chap. 4, In: The reluctant job changer, Univ. Pennsylvania, 62; Job mobility and occupational change: Philadelphia male workers, 1940-1960, Univ. Pennsylvania Indust. Res. Unit, 66. Address: North Ship Road, Exton, Pa. 19341.

BRAITHWAITE, DR. KARL ROYDEN, b. St. George, Utah, Mar.16, 42; m. 64; c. 2. POLITICAL SCIENCE. B.S, Utah, 64; NASA trainee, Wisconsin, 64-67, Ph.D. (polit. sci), 67. Assoc, summer. seminar. qual. of environ, Univ. Wisconsin, 67; ASST. PROF. POLIT. SCI, DUKE, 67- AAAS; Polit. Sci. Asn; Marine Tech. Soc. American government; science and government; policy processes; legislative behavior; empirical theory and methodology; public policy analysis. Address: 2303 Lednum St, Apt. C-E, Durham, N.C. 27705.

BRAKE, DR. JOHN R, b. Stanton, Mich, Jan. 22, 32; m. 52; c. 4. AGRICULTURAL ECONOMICS. B.S, Mich. State, 55, M.S, 56, Nat. Sci. Found. fel, 57-58; Ph.D, N.C. State Col, 59. Asst. prof. AGR. ECON, MICH. STATE, 59-63, ASSOC. PROF, 63- Guest scholar, Brookings Inst, 67-68. Farm Econ. Asn. Capital and credit problems in agriculture; production economics and management and research methods. Publ: Co-auth, Farm and personal finance; auth, Agricultural lenders face unprecedented challenge, Banking J, 10/65; Impact of structural changes on capital and credit needs, J. Farm Econ, 12/66. Address: Dept. of Agricultural Economics, Michigan State University, 19 Agricultural Hall, East Lansing, Mich. 48823.

BRAKEMAN, DR. LOUIS F(REEMAN), b. Kalamazoo, Mich, Nov. 9, 32; m. 53; c. 5. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. Danforth fel. & A.B, Kalamazoo, 54; M.A, Fletcher Sch. Law & Diplomacy, 55, Ph.D.(int. rels), 62; Fulbright fel, India, 57-58. Asst. polit. sci, Tufts, 55-57, summer sch. faculty, 59; lectr. hist, Brown, 58-59; asst. prof. polit. sci, Carroll Col. (Wis), 59-62; govt, DENISON, 62-66, ASSOC. PROF. POLIT. SCI. & CHMN. DEPT, 66- Summer dir, Regional Coun. Center Int. Students, 66-67. Polit. Sci. Asn; Asn. Asian Studies. International politics and organization; comparative politics, especially India; simulation; study of conflict; intercultural studies. Address: Dept. of Political Science, Denison University, Granville, Ohio 43023.

BRALEY, DR. LOY S, b. Schenectady, N.Y, May 4, 26; m. 50; c. 2. PSYCHOLOGY. B.A, Buffalo, 51, Ph.D.(psychol), 59. Instr. psychol, Springfield Col, 56-57; psychologist opers. res, Imp. Oil, Ltd, Can, 57-59; asst. prof. PSYCHOL, California, Santa Barbara, 59-64; ASSOC. PROF, SAN JOSE STATE COL, 64- U.S.N, 44-46. Psychol. Asn. Cognitive processes and personality development. Address: Dept. of Psychology, San Jose State College, San Jose, Calif. 95114.

BRAM, PROF. JOSEPH, b. Ekaterinburg, Russia, July 17, 04; nat; m. 46; c. 3. CULTURAL ANTHROPOLOGY. Licence ès-Lettres, Paris, 30; Ph.D. (anthrop), Columbia, 41. Asst. anthrop, Columbia, 39-40; Instr. & asst. prof. ANTHROP. & SOCIOL, Queens Col.(N.Y), 40-48; from assoc. prof. to PROF, GRAD. SCH. ARTS & SCI, N.Y. UNIV, 48- Fel. Anthrop. Asn; Sociol. Asn; Ethnol. Soc.(v.pres, 54). Intercultural relations; psychology of nationalism; comparative religion. Publ: Analysis of Inca militarism; Language and society. Address: 4 Prospect St, Baldwin, N.Y. 11510.

BRAMAN, DR. O(SCAR) RANDALL, b. Norman, Okla, Dec. 7, 25; m. 58; c. 2. PSYCHOLOGY. B.A, Oklahoma, 49; M.A, Ohio, 51; Ph.D, Tulane, 55. Instr. psychol, Ohio, 51-52; guid. officer psychol. counseling, Tulane, 53-56, instr. PSYCHOL, 54-57; asst. prof, DILLARD, 57-59, assoc. prof, 59-63, PROF, 63-; CHIEF PSYCHOLOGIST, SOC. SCI. CONSULT, 62- Consult, State Eval. Center Except. Children, 58-61, chief psychologist, 61-62. Voc. consult, various orgns, 54- Psychol. Asn; Rehab. Asn. Personality and learning theories; mental retardation; brain damage and emotional disturbance in

children and adults. Address: Social Science Consultants, 1820 St. Charles Ave, New Orleans, La. 70130.

BRAMBLETT, DR. CLAUD A(LLEN), b. Crystal City, Tex, Oct. 8, 39; m. 61; c. 2. PHYSICAL ANTHROPOLOGY. B.A, Texas, Austin, 62, M.A, 65; Ph.D. (anthrop), California, Berkeley, 67. Mgr. primate trapping & res, Southwest Found. Res. & Ed, Tex, at Darajani Primate Res. Sta, Kenya, 63-64; ASST. PROF. ANTHROP, TEXAS, AUSTIN, 67- Anthrop. Asn; Asn. Phys. Anthrop; Soc. Mammal. Primate behavior; fossil man; African prehistory; experimentation with hybridization in the primate genus Cercopithecus. Publ: Pathology in the Darajani baboon, Am. J. Phys. Anthrop, 5/67. Address: Dept. of Anthropology, University of Texas, Austin, Tex. 78712.

BRAMEL, DR. DANA H, b. Palo Alto, Calif, Aug. 19, 35; m. 63; c. 2. PSYCHOLOGY. B.A, Reed Col, 56; Soc. Sci. Res. Coun. fel, Harvard, 56-57; Gen. Elec. Co. fel. & Ph.D.(psychol), Stanford, 60. Asst. prof. PSYCHOL, Stanford, 60-61; Minnesota, 61-65; ASSOC. PROF, STATE UNIV. N.Y. STONY BROOK, 65- Vis. prof, Oregon, summer, 65; Fulbright lectr, Nice, 67-68. Psychol. Asn; Soc. Psychol. Study Social Issues. Social psychology, especially cognitive dissonance theory, social comparison processes, interpersonal attitudes, aggression and altruism. Publ: A dissonance theory approach to defensive projection, J. Abnorm. & Soc. Psychol, 62; co-auth, Attributing danger as a means of explaining one's fear, J. Exp. Soc. Psychol, 65; An observer's reaction to the suffering of his enemy, J. Personality & Soc. Psychol, 68. Address: Dept. of Psychology, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

BRAMER, DR. HENRY C(ONRAD), Econs, Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

BRAMHALL, PROF. DAVID F(REDERICK), b. Boulder, Colo, June 4, 26; m. 48; c. 4. ECONOMICS. B.A, Colorado, 47, M.A, 57; Ph.D, Pennsylvania, 61. Instr. econ, Pennsylvania, 58-60; econ. geog, Hopkins, 60-61, asst. prof, 61-63, assoc. prof, 63-66; proj. dir, Nat. Planning Asn, 66-67; PROF. ECON. & DIR. CENTER REGIONAL ECON. STUDIES, PITTSBURGH, 67- Participant, Brookings Community Conf, Baltimore, Md, 60-61. Econ. Asn; Regional Sci. Asn. Methodology of regional economic analysis; theory of planning in relation to urban economics and river basin development; regional science and economic location theory. Publ: Co-auth, Methods of regional analysis. Address: 4769 Wallingford St, Pittsburgh, Pa. 15213.

BRAMHALL, PROF. EDITH C(LEMENTINE), Polit. Sci, see 9th ed, Soc. & Behav. Vols, deceased 65.

BRAMLETT, DR. GENE AUSTIN, b. Shelbyville, Ky, Mar. 13, 30; m. 55; c. 2. ECONOMICS. B.S, Murray State, 53; M.S, Kentucky, 58, Ph.D.(agr. econ), 63. Asst. economist, Univ. Georgia, 61-63; regional economist, Spindletop Res. Inc, Ky, 63-64, mgr. regional econ, 64-65; ASST. DIR. ECON. DEVELOP, INST. COMMUNITY & AREA DEVELOP, UNIV. GEORGIA, 65-; GA. DIR, COASTAL PLAINS REGIONAL ECON. DEVELOP. CMN, 67- Mem. exec. cmt, Ga. Tech. Servs. Prog, 66- U.S.A, 53-55. Econ. Asn. Interdisciplinary studies to stimulate economic growth; industrial location studies; market development research; industrial development programming; general economics research. Address: 470 Brookwood Dr, Athens, Ga. 30601.

BRAMLETTE, DR. CARL A(LLEN), (JR), b. Laurens, S.C, May 23, 26; m. 49; c. 4. PSYCHOLOGY. B.S, Presby. Col, 48; Ph.D.(psychol), Duke, 53. Chief psychologist, S.C. State Hosp, 52-55; chief clin. psychologist, Richland County Ment. Health Clin, 55-56; coordinator, ment. health ed, State Ment. Health Cmn, S.C, 56-64; psychologist, Rohrer, Hibler & Replogle, 64-66; ASST. DIR. MENT. HEALTH, SOUTH. REGIONAL ED. BD, 66- Instr, exten. div, South Carolina, 54-56, lectr, univ, 56- Consult, Epworth Children's Home, 53- U.S.N.R, 43-46. Psychol. Asn. Group dynamics; community mental health; mental health consultation. Address: 4259 Huntington Circle, Atlanta, Ga. 30005.

BRAMMER, PROF. L(AWRENCE) M(ARTIN), b. Crookston, Minn, Aug. 20, 22; m. 45; c. 2. PSYCHOLOGY. B.S, Minn. State Teachers Col, St. Cloud, 43; M.A, Stanford, 48, Ph.D.(counseling psychol), 50. Counsr, Stanford, 48-50; asst. prof. psychol, Sacramento State Col, 50-52, assoc. prof, 52-64, assoc. dean students, 52-64, counsr, 50-52; PROF. ED. PSYCHOL. & CHMN. DEPT, WASHINGTON (SEATTLE), 64- Fulbright lectr, Tehran, Iran, 60-61, 64; lectr, Taiwan, 65. U.S.A, 43-46. Fel. Psychol. Asn; Personnel & Guid. Asn. Counseling and psychotherapy; psychological testing. Publ: Co-auth, Dynamics of the counseling process & Therapeutic psychology; auth, Sensory cues in pitch judgment, J. Exp. Psychol. Address: 7714 56th Place N.E, Seattle, Wash. 98115.

BRAMS, PROF. JEROME M(ARTIN), Psychol, see 10th ed, Soc. & Behav. Vols.

BRAMS, DR. STEVEN J(OHN), b. Concord, N.H, Nov. 28, 40. POLITICAL SCIENCE. S.B, Mass. Inst. Tech, 62; Soc. Sci. Res. Coun. fel, Northwestern, 64-65, Ph.D.(polit. sci), 66. Res. assoc. POLIT. SCI, Inst. Defense Anal, 65-67; ASST. PROF, SYRACUSE, 67- Vis. asst. prof, Rochester, 67. Polit. Sci. Asn. Application of mathematical methods to the analysis of political systems. Publ: Transaction flows in the international system, 12/66 & Measuring the concentration of power in political systems, 6/68, Am. Polit. Sci. Rev; co-auth, Patterns of representation in national capitals and intergovernmental organizations, World Polit, 7/67. Address: Dept. of Political Science, Syracuse University, Syracuse, N.Y. 13210.

BRAMSON, DR. LEON DORIAN, b. Chicago, Ill, Dec. 6, 30; m. 60; c. 2. SOCIOLOGY. A.B, Chicago, 50, A.M, 53; fel, Harvard, 56, 58-59, Ph.D. (soc. sci), 59; Fulbright scholar, Netherlands, 57-58. Instr, soc. rel, Harvard, 59-61, asst. prof, 61-65; ASSOC. PROF. SOCIOL. & CHMN. DEPT. SOCIOL. & ANTHROP, SWARTHMORE COL, 65- Consult, Peace Corps, 65-67. Trustee, Nat. Serv. Secretariat, 66- Sociol. Asn; Anthrop. Asn. Modern social theory; political sociology; sociology of work and education. Publ: Political context of sociology, Princeton, 61; co-ed, War: studies from psychology, sociology, anthropology, Basic Books, 64; auth, Sociological significance of voluntary national service, Russell Sage, 68. Address: Dept. of Sociology & Anthropology, Swarthmore College, Swarthmore, Pa. 19081.

BRANAN, DR. JOHN MAURY, b. Tallahassee, Fla, Oct. 25, 33; m. 57; c. 1. PSYCHOLOGY. B.A, Florida, 51, M.R,C, 57, Ed.D.(counseling psychol), 65. Rehab. counsr, div. voc. rehab, State Dept. Ed, Fla, 57-63; asst. prof. PSYCHOL, Berry Col, 63-66; ASSOC. PROF. & HEAD DEPT, VALDOSTA STATE COL, 66- U.S.A.R, 57-63. Psychol. Asn. Counseling and abnormal psychology; personality theory. Publ: Electicism in counseling, Voc. Guid. Quart, spring 64; Client reaction to counselor's use of self-experience, Personnel & Guid. J, 2/67. Address: Dept. of Psychology, P.O. Box 94, Valdosta State College, Valdosta, Ga. 31601.

BRANCA, DR. ALBERT A(RTHUR), b. Montclair, N.J, Nov. 13, 16; m. 42; c. 2. PSYCHOLOGY. A.B, North Carolina, 40, fel, 40-42, Ph.D.(clin. psychol), 53. Instr. lectr. psychol, North Carolina, 47-49; chief clin. psychol, Vet. Hosp, Fayetteville, N.C, 53-57; asst. prof. PSYCHOL, DELAWARE, 57-61, ASSOC. PROF, 61- Consult, Vet. Admin, 58- Lindback teaching award, Univ. Delaware, 65. Med.Admin.C, 42-46, Capt. Psychol. Asn. Hypnotically induced anxiety as a laboratory research technique; drug effects on acquisition and performance. Publ: Psychology, the scientific study of behavior, Allyn & Bacon, 64; Semantic generalization at the level of the conditioning experiment, Am. J. Psychol, Dec. 57; co-auth, Normal, hypnotically induced, and feigned anxiety as reflected in and detected by the MMPI, J. Consult. Psychol, 61. Address: Dept. of Psychology, University of Delaware, Newark, Del. 19711.

BRANCH, PROF. MAURICE L(LOYD), b. Lansing, Mich, Oct. 23, 21; m. 46; c. 4. ECONOMICS. B.A, Mich. State, 46, M.A, 47; Ph.D.(econ), Wisconsin, 54. Asst. prof, Lawrence Col, 49-53; ECON, ALBION COL, 53-58, assoc. prof, 58-64, PROF, 64- Faculty mem. & student coordinator, American Univ. Beirut, 66-67. Summers, faculty intern, President's Coun. Econ. Adv, 63, faculty mem, U.S-Yugoslav Seminar, Great Lakes Cols. Asn, 65. U.S.A, 43-45. Econ. Asn. Economic theory; international economics; labor economics. Publ: The development of the pulp and paper industry in the Lake States region. Address: Dept. of Economics, Albion College, Albion, Mich. 49224.

BRANCH, DR. MELVILLE C(AMPBELL), JR, b. Richmond, Va, Feb. 16, 13; m. 51. PLANNING. A.B, Princeton, 34, M.F.A, 36, Proctor fel, 37; Cranbrook Acad. Art, 37-38; Ph.D.(regional planning), Harvard, 49. Asst. res. technician, exec. off. pres, Nat. Resources Planning Bd, 39-41; dir. bur. urban res, Princeton, 41-43; instr, U.S. Naval Air Combat Intel. Sch, R.I, 43-46; assoc. prof. planning, Chicago, 47-50; asst. chief, U.S. Govt, 50-54; corporate assoc. for planning & mem. sr. staff, Thompson Ramo Wooldridge, Inc, 54-62; lectr. PLANNING, sch. eng, California, Los Angeles, 62-66, PROF, SOUTHERN CALIFORNIA, 66- Mem. Los Angeles City Planning Cmn, 62- Soc. Sci. Res. Coun. award, 47. U.S.N, 43-46, Lt. Comdr. Inst. Planners; Opers. Res. Soc; Inst. Sci. Mgt; Soc. Planning Off. Comprehensive, physical and business planning. Publ: The corporate planning process, 62; Planning, aspects and applications, Willey, 66; Selected References for corporate planning, Am. Mgt. Asn, 66. Address: 1505 Sorrento Dr, Pacific Palisades, Calif. 90272.

BRAND, PROF. DONALD D(ILWORTH), b. Chiclayo, Peru, Mar. 6, 05; U.S. citizen; m. 32; c. 2. GEOGRAPHY, ANTHROPOLOGY. A.B, California, 29, fel, 31-33, Ph.D.(geog), 33; Heller traveling fel. from California, Mexico, 30-31. Instr. & lectr. geog, California, 34; asst. prof. anthropogeog, New Mexico, 34-35, assoc. prof, 35-39, prof, 39-47, act. head dept. anthrop, 35-36, head dept, 36-47; PROF. GEOG, Michigan, 47-49; TEXAS, AUSTIN, 49-, chmn. dept, 49-60. Cultural geogr, Smithsonian Inst, Mex, 44-46. Fel. AAAS; fel. Geog. Soc; Asn. Am. Geog; fel. Anthrop. Asn; Soc. Archaeol; Mex. Anthrop. Soc. Latin America, especially Mexico; historical, plant and agricultural geography; coastal studies; history of scientific research in Mexico; hydrographic survey of the eastern Pacific. Publ: Quiroga, a Mexican municipio, Smithsonian Inst, 51; Coalcoman and Motines del Oro, Inst. Latin Am. Studies, Univ. Texas, 60; Mexico: land of sunshine and shadow, Van Nostrand, 66. Address: 1210 Windsor Rd, Austin, Tex. 78703.

BRAND, PROF. PAUL J(OHN), b. Millersburg, Ohio, June 13, 04; m. 36. GEOGRAPHY. B.S, Kent State, 31; S.M, Chicago, 37; Wisconsin, 39-41; fel, Maryland, 49-50; Ed.D.(geog. ed), Columbia, 55; Heidelberg, 57. Asst. instr. geog, Wisconsin, 40-41; head tech. files sect. & instr, training sch, ord. plant, U.S. Dept. War, Ohio, 42; asst. to steel purchasing agent, Firestone Steel Prod, 43; lectr. & asst. prof. geog, Fenn Col, 43-46, sr. personnel adv, personnel & guid. center, 45-46; prof. geog. & geol. & chmn. dept, Bucknell, 46-58; PROF. GEOG, ILLINOIS STATE, 58- Head specifications dept, liaison eng. dept, Fisher Body Plant, Gen. Motors Corp, Ohio, 44-45; vis. prof, Teachers Col, Columbia, 54. AAAS; Asn. Am. Geog; fel. Am. Geog. Soc; Nat. Coun. Geog. Ed. Land utilization in microareas and Eastern Caribbean Islands; physical geography of Anglo-America; Geography of the Soviet Union. Address: 5 Kent Dr, Normal, Ill. 61761.

BRANDAUER, DR. CARL M(ARTIN), Commun. Systs, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BRANDEIS, PROF. ELIZABETH, b. Boston, Mass, Apr. 25, 96; m. 25; c. 1. ECONOMICS. B.A, Radcliffe Col, 18; M.A, Wisconsin, 24; Ph.D, 28. From asst. secy. to secy, Minimum Wage Bd, D.C, 19-23; from asst. to prof. econ, Wisconsin, 24-66; RETIRED. Chmn, Wis. Governor's Cmt. Migratory Labor, 60-Labor legislation; unemployment compensation; social security; migratory labor problems. Publ: Social security, In: Problems of the postwar world; Organized labor and protective labor legislation, In: Labor and the new deal; Migrant labor in Wisconsin, In: Labor management and social policy. Address: 2110 Vilas Ave, Madison, Wis. 53711.

BRANDENBURG, PROF. FRANK R(ALPH), b. Minn, July 8, 26; m. 57; c. 1. POLITICAL SCIENCE, ECONOMIC DEVELOPMENT. A.B, California, 50;

A.M, Pennsylvania, 51, Doherty Found. & Penfield fels, 53-54, Ph.D.(polit. sci), 55. Instr. polit. sci, Wharton Sch, Pennsylvania, 51-56; asst. prof, Mich. State, 56-57; res. fel, Soc. Sci. Res. Coun, 57-58; prof. polit. sci, Nat. Univ. Mexico, 58-62; PROF. LATIN AM. STUDIES, AMERICAN UNIV, 63- Instr, Beaver Col, 51-52; lectr, Mex. City Col, 58-62; dir. res, Nat. Planning Asn, 62-64; Cmt. Econ. Develop, 64-66; assoc. res, center strategic studies, Georgetown, 64- Summers, Ford Found. fel, 55, lectr, Col. Patzcuaro, 56-59. Consult, 56-; econ, Coun. Latin Am, 66-68. Ed, Coleccion Universitaria, 59-62. Mem, Cmt. Econ. Develop, 65- Polit. Sci. Asn; Hist. Asn; Soc. Int. Develop; Mex. Soc. Geog. & Statist. International relations; Latin America; economics; political economy. Publ: The making of modern Mexico, Prentice-Hall, 64; The development of Latin American private enterprise, Nat. Planning Asn, 64. Address: Estrada da Gavea 722, São Conrado, Rio de Janeiro, GB, Brazil.

BRANDENBURG, DR. RICHARD GEORGE, b. Oak Park, Ill, Feb. 21, 35; m. 57; c. 2. MANAGEMENT SCIENCE. B.M.E, Cornell, 58, M.B.A, 60, Ph.D.(opers res), 64. Asst. to dean, GRAD. SCH. INDUST. ADMIN, CARNEGIE-MELLON UNIV, 62-64, asst. dean, 64-67, ASSOC. DEAN, 67-, ASSOC. PROF. INDUST. ADMIN, 67-, asst. prof, 64-67, acting dean, grad. sch. indust. admin, 67-68. Consult, Rand Corp, 65-67; Crucible Steel Co, 66-; Quickborner Team fur Planung und Organisation, Germany, 66-67; Ins. Co. N.Am, 67- AAAS; Inst. Mgt. Sci; Soc. Eng. Ed; Opers. Res. Soc. Behavior of firms in deciding to engage in and subsequently to implement acquisition programs; problems of managing technological innovation within the firm; design of management planning and decision making systems. Publ: Co-auth, Toward a multistage information conversion model of the R & D process, Naval Logistics Res. Quart, 6/66; Allocation, characteristics and outcomes of the firm's R & D portfolio: a case study, J. Bus, 10/66; Program of research in business planning, Mgt. Sci, 2/67. Address: Graduate School of Industrial Administration, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

BRANDENBURG, PROF. WARNER O, b. Chicago, Ill, July 22, 17; m. 45; c. 2. MANAGEMENT, MARKETING. B.C.S, Northwestern, 37; M.S, Illinois, 59, Ph.D.(bus), 61. Secy-treas, William Brandenburg Co, 37-41; financial analyst, Honeywell, Inc, 62-65; asst. prof. mkt, San Jose State Col, 65-67; assoc. prof. mgt, SANTA CLARA, 67-68, PROF. BUS, 68- Consult, FMC Corp, 66-68. U.S.A.F, 42-62, Lt. Col. Mkt. Asn; Soc. Adv. Mgt. Address: School of Business, University of Santa Clara, Santa Clara, Calif. 95053.

BRANDES, ELY M, b. Vienna, Austria, Oct. 21, 22; U.S. citizen; m. 63; c. 3. ECONOMICS. A.B, Birmingham-South. Col, 42; M.A, Harvard, 44. Economist, Tenn. Valley Authority, 53-56; Atomic Energy Cmn, 56-59; SR. ECONOMIST, STANFORD RES. INST, 59- U.S.A, 44-46, S/Sgt. Transportation problems; economic problems in consumer behavior. Publ: Selected impacts on railroad mergers, U.S. Dept. Commerce, 65; Future of rail passenger traffic, Stanford Res. Inst, 66; Improvement program for the Alaska Highway, Queen's Printer, 66. Address: 554 Madison Way, Palo Alto, Calif. 94303.

BRANDES, PROF. JOSEPH, b. Trembowla, Poland, Jan. 23, 28; nat; m. 53; c. 4. ECONOMIC HISTORY, ECONOMICS. B.S, City Col. New York, 49; M.A, Columbia, 50; fels, N.Y. Univ, 55-56, 57-58, Ph.D.(Am. & econ. hist), 58. Teacher, high schs, N.Y, 50-57; lectr. econ, City Col. New York, 55; assoc. prof. soc. sci, PATERSON STATE COL, 58-66, PROF. HIST. & SOC. SCI, 66- Res. assoc, Am. Jewish Hist. Center; summer vis. assoc. prof, N.Y. Univ, 63-66. Consult, U.S. Dept. Commerce, 58-; Symp. on Pub. Utility Econ, 63-67. Mem, White House Conf. Youth, 60. Econ. Asn; Hist. Asn; Econ. Hist. Asn. Jewish immigrant colonies in rural United States; integrated approach to economics and history, especially impact of economic factors in the domestic and foreign policy of the United States. Publ: Contrib, Economic abstracts, N.Y. Univ, 55-56, 57-58; contrib. ed, Pictorial history of the world, Hammond, 56; auth, Herbert Hoover and economic diplomacy, Univ. Pittsburgh, 62. Address: 16-36 Raymond St, Fair Lawn, N.J. 07410.

BRANDIS, DR. R(OLAND) BUFORD, b. Richmond, Va, Apr. 3, 17; m. 40; c. 2. ECONOMICS. A.B, Richmond, 37; Littauer fel, Harvard, 40-41, M.P.A, 41; Ph.D.(econ), Duke, 43. Asst. mgr. dept. res, Fed. Reserve Bank Atlanta, 41-45; assoc. prof. bus. admin, sch. bus. admin, Emory, 46-52; res. economist, U.S. Chamber Commerce, 52-55; assoc. economist, AM. TEXTILE MFRS. INST, INC, 55-56, CHIEF ECONOMIST, 56- U.S.N.R, 45-46, Lt.(jg). Econ. Asn; Statist. Asn. Economics of textile industry. Publ: Is the south expendable?: A study of foreign trade and southern progress; Synthetics and the cotton textile industry; British prices and wage rates. Address: American Textile Manufacturers Institute, Inc, Suite 840, 1120 Connecticut Ave. N.W, Washington, D.C. 20036.

BRANDIS, PROF. ROYALL, b. Richmond, Va, Mar. 8, 20; m. 41; c. 2. ECONOMICS. A.B, Richmond, 40; A.M, Duke, 47, Ph.D.(econ), 52. For. trade economist, Nat. Cotton Coun, 47-48; instr. ECON, Duke, 49-52; asst. prof, ILLINOIS, URBANA, 52-56, assoc. prof, 56-61, PROF, 61- U.S.N, 43-46. Econ. Asn; Royal Econ. Asn. Economic theory, international economics. Publ: Principles of economics, Irwin, 66; Notes on the theory of games and the social sciences, Erhvervsokonomisk Tidsskrift; The myth of absolute advantage, Am. Econ. Rev, 3/67. Address: Dept. of Economics, University of Illinois, Urbana, Ill. 61801.

BRANDL, DR. JOHN E, b. St. Cloud, Minn, Aug. 19, 37; m. 60; c. 3. ECONOMICS. B.A, St. John's (Minn), 59; fel, scholar, H.B. Earhart fel. & M.A, Harvard, 62, Ph.D.(econ), 63. Systs. analyst, Off. Secy. Defense, 63-65; ASST. PROF. ECON, St. John's (Minn), 65-67; WISCONSIN, MADISON, 67- Consult, Off. Secy. Defense, 65-; Off. Econ. Opportunity, 65-; Dept. Commerce, 65-; Dept. Health, Ed. & Welfare, 65- Joint serv. commendation medal, Secy. of Defense, 65. U.S.A, 63-65, 1st Lt. Econ. Asn; Economet. Soc. Program analysis in the public sector, particularly in human resources. Publ: Co-auth, Damage limiting: a rationale for the allocation of resources by the U.S. and the U.S.S.R, Off. Dir. Defense Res. & Eng, 1/64; auth, On budget allocation in government agencies, Rev. Soc. Econ, 3/67; On the treatment of incommensurables in cost-benefit analysis, Land Econ, forthcoming. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

BRANDNER, PROF. LOWELL, b. Leoti, Kans, May 6, 15; m. 32; c. 2. AGRICULTURAL JOURNALISM. A.B. & B.S, Kans. State Teachers Col, 37; M.S, Kans. State Col, 50; Ph.D, Wisconsin, 60. From asst. prof. indust. jour. to PROF. AGR. ED, KANSAS STATE, 47-, agr.ed, 47 & 61. Ed. consult, Agri-Res, Inc, Kans, 64-; commun. consult, Univ. Hawaii, 66. U.S.A, 43-45. Communications. Publ: Co-auth, Evaluation for congruence as a factor in adoption rate of innovations, Rural Sociol, 9/64; The newspaper: molder or mirror of community values, Journalism Quart, autumn 66. Address: Kansas State University, Manhattan, Kans. 66502.

BRANDON, PROF. DONALD WAYNE, b. Portland, Ore, May 14, 26; m. 48; c. 3. POLITICAL SCIENCE. A.B, California, 49, M.A, 50, fel, 50-51, Ph.D, 54. Staff writer, Oregonian, 46-48; instr. polit. sci, San Francisco, 53-55; intel. analyst, Cent. Intel. Agency, 55-56; asst. cultural attaché, U.S. Embassy, W.Germany, 56-58; asst. prof. POLIT. SCI, SAN FRANCISCO, 58-62, from assoc. prof. to PROF, 62- U.S.A, 44-46. Polit. Sci. Asn. Contemporary United States foreign policy; comparative politics. Publ: American foreign policy, Appleton, 66. Address: Dept. of Political Science, University of San Francisco, San Francisco, Calif. 94117.

BRANDOW, PROF. GEORGE E, b. Roxbury, N.Y, June 8, 13; m. 38. AGRICULTURAL ECONOMICS. B.S, Cornell, 35, Westinghouse fel, 37-39, Ph.D. (agr. econ), 39. Exten. instr. prices, Cornell, 39-40; asst. prof. AGR. ECON, PA. STATE, 40-42, from assoc. prof. to PROF, 46- Tech. asst, Turkish Ministry Agr, 53; staff economist, Joint Econ. Cmt. of Cong, 57; exec. dir, Nat. Cmn. Food Mkt, 64-66. Sr. economist, Off. Price Admin, 42-43; U.S.A; U.S.N, 43-46. Econ. Asn; Economet. Soc; fel. Agr. Econ. Asn. (pres. 63); Int. Asn. Agr. Econ. Farm price analysis; price policy. Publ: Interrelations among demands for farm products; Supply control: ideas, implications and measures, J. Farm Econ; Overhauling United States farm policy, Ann. Am. Acad. Polit. & Soc. Sci. Address: Dept. of Agricultural Economics, Pennsylvania State University, University Park, Pa. 16802.

BRANDSTATTER, A(RTHUR) F(RANK), b. McKees Rocks, Pa, Dec. 27, 14; m. 38; c. 5. PUBLIC ADMINISTRATION. B.S, Mich. State Col, 38, M.A, 51. DIR. SCH. POLICE ADMIN. & PUB. SAFETY, MICH. STATE, 46-, dir. dept. pub. safety, 46-60. Consult, U.S. Dept. State, Germany, 50, Saigon, 54, Vietnam, 56; U.S. Dept. Treas, 54-60. Mem, Mich. Cmn. Crime, Delinquency & Criminal Admin, 66- U.S.A, 41-46, Brig.Gen. Soc. Pub. Admin; Soc. Criminol. Personnel management; administration; training. Address: School of Police Administration & Public Safety, Michigan State University, East Lansing, Mich. 48823.

BRANDT, PROF. FLOYD S, b. Detroit, Mich, Feb. 12, 30; m. 53; c. 2. BUSINESS ADMINISTRATION, INDUSTRIAL RELATIONS. B.B.A, Texas Tech. Col, 51; M.B.A, Michigan, 52; Eastman Kodak fel, Harvard, 59-60, D.B.A. (bus), 60. Instr. bus. & indust. rels, W.Tex. State Col, 55-56; instr. & res. assoc, Harvard Bus. Sch, 56-59; asst. prof, Northwestern, 60-63; assoc. prof, TEXAS, 63-68, PROF. BUS, 68- Stanford- Sloan fel. & lectr, Stanford, 67-68. U.S.A, 52-55, 1st Lt. Indust. Rels. Res. Asn. Collective bargaining; union-management relations; management development programs. Publ: Co-auth, Union organizing results in Texas, Bur. Bus. Res, Univ. Texas, 64; Conflict and cooperation, Irwin, 67; auth, Maintenance subcontracting, Labor Law J, 63. Address: Dept. of Management, University of Texas, Austin, Tex. 78712.

BRANDT, DR. HARRY, b. Dresden, Germany, Apr. 13, 25; nat; m. 50; c. 3. ECONOMICS. A.B, Washington (Seattle), 47; M.S, Columbia, 49, Ph.D.(econ), 54. V.PRES. RES, FED. RESERVE BANK OF ATLANTA, 54- Instr, Ga. State Col, 55-59. U.S.A, 44-46. Econ. Asn. Central banking; industry studies; regional economic development. Publ: U.S. monetary and credit policies between the end of World War II and the outbreak of the Korean War, J. Finance; co-auth, Trading in federal funds by banks in the southeast, South. J. Bus, 68. Address: 2722 Foster Ridge Rd, N.E, Atlanta, Ga. 30329.

BRANDT, DR. JAMES E, b. Cleveland, Tenn, Nov. 12, 29. PSYCHOLOGY, EDUCATION. B.S, Minot State Col, 57; M.A, Iowa, 61, Ph.D.(psychol), 67. Instr. psychol, Northwest Bible Col, 57-62; counsr, MINOT STATE COL, 66-67, DIR. COUNSELING SERV, 67- Psychol. Asn; Personnel & Guid. Asn. Publ: Predictive validity of the SVIB as related to personality adjustment, Proc. Am. Psychol. Asn, 67. Address: 34 Robinwood Estates, Minot, N.Dak. 58701.

BRANDT, DR. KARL, b. Essen, Germany, Jan. 9, 99; nat; m. 32; c. 4. ECONOMICS, PUBLIC POLICY. Dr. Agr, Berlin, 26; hon. Dr. Phil, Heidelberg, 50. Dir, German Farm Tenants Bank, Berlin, 25-28; agr. adv, Cent. Coop. Bank, 28-29; prof. agr. econ. & dir. inst. agr. & mkt. res, col. agr, Berlin, 29-33; mem. grad. faculty polit. & soc. sci, New Sch. Soc. Res, 33-38; from assoc. dir. to dir. food res. inst. & prof. ECON. POLICY, STANFORD, 38-65, EMER. PROF. & SR. RES. FEL, HOOVER INST. WAR, REVOLUTION & PEACE, 65- Vis. res. prof, La. State, 37-38; guest prof, Univs. Heidelberg & Göttingen, 48-49; Stanford exchange prof, Free Univ, Berlin, 54-55. Econ. adv. to Secy. Agr, 42; consult, War Food Admin, 44-46; econ. adv. food & agr, U.S. Mil. Govt, Germany, 45-46; consult, Ford Found, 51-55. Mem, Found. Econ. Ed, 50, trustee, 61-; mem, Joint Mission Int. Bank & Food & Agr. Orgn, 51-52; mem, Presidents Coun. Econ. Adv, 58-61; adv. bd, Am. Enterprise Inst. Pub. Policy Res, 58- Hon. fel. Am. Agr. Econ. Asn.(pres, 55-56); Am. Econ. Asn; Royal Econ. Soc; Int. Asn. Agr. Econ; hon. mem. Royal Soc. Polit. Econ. Belgium; hon. for. mem. French Acad. Agr. Food and agriculture; agricultural finance. Publ: German fat plan and its economic setting; Reconstruction of world agriculture; Management of agriculture and food in the German occupied and other areas of fortress Europe. Address: Hoover Institution on War, Revolution & Peace, Stanford University, Stanford, Calif. 94305.

BRANDT, DR. LEWIS WOLFGANG, b. Berlin, Germany, Sept. 27, 21; U.S. citizen; m. 62. PSYCHOLOGY. Transl. dip, Geneva, 46; Columbia, 49-51; M.A, New Sch. Soc. Res, 57; Ph.D.(psychol), N.Y. Univ, 63. Res. analyst,

U.S. War Dept, 46-47; ed, United Press Asns. Am, 47-48; researcher, N.Y. Pub. Library, 48-51; New Eng. Indust, Inc, 52-53; transl. Chase Manhattan Bank, 53-56; res. asst. spec. proj, U.S. Off. Voc. Rehab, 59-61; lectr, Fairleigh Dickinson, 61-62, instr, 62-65; asst. prof. PSYCHOL, Upsala Col, 65-68; ASSOC. PROF, SASKATCHEWAN, REGINA, 68- Prin. investr, Nat. Inst. Ment. Health res. grant, 63-64; lectr, Hunter Col, 65-66. Private practice psychother, 57-; psychotherapist, Essex County Ment. Hyg. Clin, 66-68. Psychol. Asn; Acad. Psychother. Psychoanalysis; phenomenology; psycholinguistics; scientific methodology; acceptance and rejection of psychotherapy by prospective patients; perception of self and others; retention of college course material; selection of friends as related to denominations. Publ: Some notes on English freudian terminology, J. Am. Psychoanal. Asn, 61; Structure or process?, Psychoanal. Rev; 66; The observing participant, In: Roles and paradigms in psychotherapy, Grune, 68. Address: Division of Social Sciences, University of Saskatchewan, Regina, Sask, Can.

BRANDT, PROF. LOUIS KOHL, b. San Diego, Calif, Aug. 26, 12; m. 36; c. 4. ECONOMICS. B.E, Wis. State Teachers Col, Whitewater, 36; M.A, Wisconsin, 40, Ph.D, 43. Asst. prof. econ, money & banking, ins, Wisconsin, 40-42; econ. & corp. finance, Texas, 42-45; PROF. ECON. & FINANCE, MISSISSIPPI, 45- Vis. prof, Wisconsin, summer 57; Texas, 62-63. U.S. Saving & Loan League Seminar, Chicago, 53; mem. Univ. Wisconsin team to Indonesia, 59-61; fel, Invest. Bankers Asn. N.Y, 67. Lit. award, 65. Quantitative tools and methods for financial analysis, planning and control; changes in corporate assets and financial structures during and after World War II; study of corporation fees and taxes in the Southeastern States. Publ: Financing corporations, Oxford Eagle, 54; Business finance: a management approach, Prentice-Hall, 65; Article, Quantitative tools for working capital management, 68. Address: Dept. of Economics & Finance, University of Mississippi, University, Miss. 38677.

BRANDWEIN, ROBERT, b. Brooklyn, N.Y, Apr. 30, 34; m. 56; c. 2. ECONOMICS. B.A, Cornell, 55; M.A, Brooklyn Col, 62; American Univ, 59-64. Acct, Instnl. Securities Corp, 55-57; asst. to controller, McGregor-Doniger, Inc, 57-59; economist, U.S. Dept. Commerce, 59-62; Small Bus. Admin, 62-63; U.S. Arms Control & Disarmament Agency, 63-66; ASSOC, UNITED RES, INC, 66- Lectr, Northeastern, 67-68. Consult, Off. Econ. Opportunity, 67- Econ. Asn; Statist. Asn. Economic impact of defense expenditures; role of public policy in business relations; regulatory agency policies; regional economic development. Publ: The Dyna-Soar contract cancellation, Bus. Rev, 10/65; Mass layoff of defense scientists and engineers, In: Proceedings of the symposium on stabilization of engineering and scientific employment in industry, San Jose State Col, 66; Experiences of defense firms with internal development of new products and services, In: The changing boundaries of the defense industries in the next five years, Boston Col, 67. Address: 607 Boylston St, Boston, Mass. 02116.

BRANE, DR. DENNIS D(eWITT), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased.

BRANER, DR. HENRY, b. Berlin, Germany, Feb. 25, 32; nat; m. 53; c. 3. MARKETING, STATISTICS. B.S, N.Y. Univ, 52; M.B.A, Columbia, 54; Ph.D. (bus. admin), Ohio State, 64. Res. assoc, Columbia, 52-54; prin. reliability eng. statistician, Battelle Mem. Inst, 56-60; sr. statist. consult, B.F. Goodrich Co, 60-61, sr. mkt. planning specialist, tire div, 61-65; MKT. PLANNING MGR, VOLKSWAGEN AM, INC, 65- Chem.C, U.S.A, 54-56. Statist. Asn; Mkt. Asn. Application of operations research and statistical techniques to retail distribution planning for geographic markets; area analyses and economic modeling of market situations. Publ: An analysis of the retreading market, Ranno, 66; Realistic temperature-power derating curves, Elec. Mfg; co-auth, Life characteristics of carbon film resistors, Commun. & Electronics. Address: Volkswagen of America, Inc, Englewood Cliffs, N.J. 07632.

BRANN, E(DWARD) R(OMMEL), Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRANNEN, PROF. STEPHEN J(OSHUA), b. Glennville, Ga, Oct. 19, 25; m. 48; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Georgia, 50, M.S.A, 52; Johnston Found. fel, N.C. State, 55-56, Ph.D.(econ), 66. Instr. agr, State Dept. Ed, Ga, 50; asst. county agent, State Coop. Exten. Serv, 50-51, 52-53, farm mgt. specialist, 53-55, exten. economist, 56-59, head, exten. econ. dept, 59-61; asst. agr. econ, GEORGIA, 51-52, assoc. prof. AGR. ECON, 61-67, PROF, 67-, CHMN. DIV, 61- Consult, U.S. Dept. Agr, 65-67; Res. Group Inc, 67. U.S.A, 44-46, Sgt. Agr. Econ. Asn; Int. Asn. Agr. Econ. Farm management; production economics; economic development and agricultural policy. Publ: Analysis of the financing of broiler production in North Georgia; Direct restraints on farm marketings; Farm economic briefs. Address: Dept. of Agricultural Economics, University of Georgia, Athens, Ga. 30601.

BRANNING, DR. ROSALIND L(ORRAINE), b. Jacksonville, Fla, Dec. 21, 07. POLITICAL SCIENCE. A.B, Pittsburgh, 29, Wallace fel, 30-32, A.M, 31, Ph.D, 33. Instr. POLIT. SCI, PITTSBURGH, 36-46, asst. prof, 46-55, ASSOC. PROF, 55- Mem. res. staff prep. cmt, Pa. Constitutional Convention, 67-68. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Am. Soc. Int. Law. State government; international law. Publ: Pennsylvania constitutional development; ed, Bibliography on Pennsylvania state government; auth, reference manual No. 3, A history of Pennsylvania constitutions. Address: 160 Montclair Ave, Pittsburgh, Pa. 15237.

BRANNON, PROF. BERNARD C(HARLES), b. Kansas City, Mo, May 5, 11. CRIMINOLOGY, LAW. LL.B, Vanderbilt, 39; Princeton, 44. Private practice, 40-43; attorney, U.S. Dept. Navy, D.C, 46-49; assoc. prof. police sci, Missouri, 49-52; chief police, Kansas City, 52-61; private practice, 61-62; PROF. POLICE SCI, MISSOURI, 62- Guest lectr, various cols. & univs, 54-59. Consult, Health, Ed. & Welfare Bur, D.C, 60-61; adv. bd. jr. col. dist, Mo, 67-68. Mem. U.S. Supreme Court Bar. U.S.N, 43-46, Lt. Acad. Polit. & Soc. Sci; Soc. Criminol; Bar Asn; Int. Asn. Chiefs of Police; Fed. Bar Asn. Police administration, education and reorganization; university level police training. Publ: The set of the sail; Into tomorrow; Mana of the city. Address: Dept. of Police Science, University of Missouri, 900 Conley Ave, Columbia, Mo. 65201.

BRANNON, DR. GERARD M(ARION), b. Manila, P.I, June 28, 22; U.S. citizen; m. 46; c. 5. ECONOMICS. A.B, Georgetown, 43, M.A, 45; Littauer fel. & M.P.A, Harvard, 46, Ph.D.(econ), 50. Instr. econ. & statist, Boston Col, 46-48; asst. prof, Notre Dame, 48-50; economist, Joint Congressional Cmt. Internal Revenue, 51-57; cmt. on ways & means, U.S. House Rep, 57-63; OFF. TAX ANAL, OFF. SECY. OF TREAS, 63-65, DIR, 65- Lectr, Georgetown, 51- Econ. Asn; Economet. Soc. Effects of taxation, especially capital gains tax and estate tax. Address: 4813 N. 24th St, Arlington, Va. 22207.

BRANNON, DR. JOHN B, JR, b. Louisville, Ky, Feb. 6, 31; m. 57; c. 3. SPEECH & HEARING SCIENCE. B.A, Kentucky, 53, M.A, 57; Ph.D.(speech), Northwestern, 64. Audiologist, Lexington Clin, Ky, 58-59; psychologist, State of Ky, 59-60; res. assoc, inst. lang. disorders, Northwestern, 62-64; audiologist, Vet. Admin. Hosp, 63-64; ASST. PROF. SPEECH, OHIO STATE, 64- U.S. Off. Ed. res. grant, 66-67. U.S.A, 53-55, Lt. Psychol. Asn; Speech & Hearing Asn. Hearing pathology; language disorders in children; psycholinguistics; language development. Publ: The speech production and spoken language of the deaf, Lang. & Speech, 66; co-auth, The spoken syntax of normal, hard of hearing, and deaf children, 66 & auth, Linguistic word classes in the spoken language of normal, hard-of-hearing, and deaf children, 68, J. Speech & Hearing Res. Address: Dept. of Speech, Ohio State University, 154 N. Oval Dr, Columbus, Ohio 43210.

BRANNON, DR. VICTOR D(eWITT), b. Des Moines, Iowa, Aug. 26, 09; m. 34; c. 2. POLITICAL SCIENCE. A.B, Arizona, 31, A.M, 32; fel, Missouri, 34-35, 37-38, Ph.D, 38; Wisconsin, 35-36. Asst. cost & character of pub. ed, State Bd. Regents, N.Y, 36-37; researcher, State Planning Bd. & State Hwy. Dept, Mo, 38-39; asst. dir, GOVT. RES. INST, 39-47, DIR, 47- V.chmn. adv. coun, sch. bus. & pub. admin, Univ. Missouri, 64-66. Polit. Sci. Asn; Soc. Pub. Admin; Govt. Res. Asn. Expenditures and administrative organization of local government and taxation; employers' liability and workmen's compensation in Arizona; state auditor and fiscal control in Missouri; police administration. Address: Governmental Research Institute, 1016 Arcade Bldg, St. Louis, Mo. 63101.

BRANOM, DR. FREDERICK KENNETH, Geog, Soc. Sci, see 10th ed, Soc. & Behav. Vols.

BRANOM, DR. MENDEL EVERETT, Geog, see 10th ed, Soc. & Behav. Vols, deceased.

BRANSFORD, DR. THOMAS L(OWE), b. South Bend, Wash, Apr. 21, 08; m. 36, 51; c. 5. PSYCHOLOGY. A.B, Washington (Seattle), 28; M.S, American Univ, 31, Ph.D.(psychol), 39. Personnel res. specialist, U.S. Civil Serv. Cmn, 29-40, chief planning & mgt. training sect, 40-42, exec. secy. mgt. training conf, 40-43, sr. admin. analyst, budget & planning staff, 42-43; chief test develop. sect, 44-47; chief planning & anal. br, personnel div, Off. Price Admin, 43-44; dir. exam, N.Y. STATE CIVIL SERV. DEPT, 47-62, DIR. TEST. DEVELOP, 62- Proj. supvr, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 37-39; indust. psychologist, Pa. State Col, 44; chmn. cmt. motor vehicle operators, Fed. Interdept. Safety Coun, D.C, 46-47; consult, pub. serv. personnel selection, W.African Exam. Coun, Nigeria, summer, 66. Fel. Psychol. Asn; Statist. Asn; Soc. Pub. Admin; Pub. Personnel Asn; Nat. Coun. Measurement in Ed. Development and application of personnel selection tests; job performance criteria and validation methodology; cultural bias in tests, criteria and prediction. Publ: Co-auth, Teacher selection methods, U.S. Dept. Health, Ed. & Welfare, 67 & Recruitment and selection in the public service, Pub. Personnel Asn, 68. Address: New York State Civil Service Dept, Bldg. 1, State Campus, 1220 Washington Ave, Albany, N.Y. 12226.

BRANSON, PROF. ROBERT E, b. Dallas, Tex, Dec. 3, 18; m; c. 2. ECONOMICS. B.S, Southern Methodist, 41; M.P.A, Harvard, 48, M.A, 49, Ph.D, 54. Economist, Fed. Surplus Commodities Corp, 41-42; agr. mkt. admin, U.S. Dept. Agr, 42-43, food distribution admin, 43, war food admin, 43-44, prod. & mkt. admin, 44-45, 50-53, off. requirements & allocations, 46-47, mkt. res. div, agr. mkt. serv, 53-54, statistician, bur. agr. econ, 47-48; economist, Off. Strategic Servs, 45-46; off. res. & intel, U.S. Dept. State, 46; assoc. dir. mkt. res, Puerto Rico, 49-50; PROF. MKT. DEVELOP. ECON, TEXAS A&M, 55- Mkt. res. consult, Branson & Assocs, Inc, 58-; summer consult, Agency Int. Develop, Argentina, 63. U.S.A, 45. Econ. Asn; Agr. Econ. Asn; Mkt. Asn; Acad. Econ. & Polit. Sci; Urban Land Inst. Market development; consumer preference; new product testing. Publ: Marketing efficiency in Puerto Rico; New product tests for lamb & Demand for outdoor recreation research design, spec. report, Texas A&M Agr. Exp. Sta. Address: Dept. of Agricultural Economics, Texas A&M University, College Station, Tex. 77840.

BRANSON, DR. ROBERT K, b. Shawnee, Okla, Feb. 23, 32; m. 56; c. 2. PSYCHOLOGY. B.S, Okla. State, 56, M.S, 57; Ph.D.(psychol), Ohio State, 59. Asst. psychol, Okla. State, 56-57; asst. instr, Ohio State, 57-59; instr, La. State, 59-60, asst. prof, 60-61; v.pres. Gen. Prog. Teaching Corp, 61-64; ed. consult, 64-65; proj. mgr, LITTON ED. GROUP, 65-67, CENTER DIR, PARKS JOB CORPS CENTER, 67- Vis. lectr. psychol, New Mexico, 61-62. Consult, U.S. Naval Acad, 66-67; U.S. Off. Ed, 67- U.S.N.R, 52-54. Psychol. Asn; Ed. Res. Asn. Design and management of special educational programs; application of operant conditioning techniques to human learning; teaching machines and programmed learning. Publ: The systems approach to education: an introduction, Proc. Community Col. Press Conf, 67. Address: 328 Crest Ave, Walnut Creek, Calif. 94529.

BRANSON, DR. WILLIAM H(OBAN), b. Springfield, Ill, Feb. 14, 38; m. 63; c. 3. ECONOMICS. B.S, U.S. Naval Acad, 59; San Francisco State Col, 62-63; M.A, California, Berkeley, 64; Ph.D.(econ), Mass. Inst. Tech, 67. ASST. PROF. ECON, PRINCETON, 67- Consult, Coun. Econ. Adv, 65-; Orgn. Econ. Coop. & Develop, 67-; bd. governors, Fed. Reserve Syst, 67-; policy planning coun, Dept. State, 67- U.S.N, 59-64, Lt. Econ. Asn. Macroeconomic theory and policy and international economics; United States balance of payments and related problems. Publ: Financial capital flows in the U.S. balance of payments, North-Holland, 68; Social legislation and fertility in nineteenth century Britain, West. Econ. J, spring 68. Address: Dept. of

Economics, Woodrow Wilson School, Princeton University, Princeton, N.J. 08540.

BRANT, DR. CHARLES SANFORD, b. Portland, Ore, Aug. 11, 19; m. 46; c. 2. ANTHROPOLOGY. B.A, Reed Col, 41; scholar, Yale, 41-42, M.A, 43; fel, Michigan, 47-48; Soc. Sci. Res. Coun. World Area fel, Cornell, 49-50, Viking Fund fel, 49, Fulbright scholar, 49, Ph.D.(anthrop), 51. Asst, Yale, 41-43; instr. sociol. & anthrop, Buffalo, 46-47; asst, Cornell, 48-49; vis. asst. prof, Colgate, 51-52; California, 52-53; mem. soc. sci. faculty, Sarah Lawrence, 54-56; soc. sci. resident, Albert Einstein Col. Med, 56-57; asst. prof. ANTHROP, Portland State Col, 57-60, ASSOC. PROF, 60-61; ALBERTA, 61-, CHMN. DEPT. 66- Can. Coun. sr. fel, 67-68. U.S.A, 43-46. Fel. Anthrop. Asn. Applied anthropology; comparative cultures; social anthropology of developing areas; Arctic regions. Publ: Joe Blackbear: the life of a Kiowa Apache Indian, Dover, 67. Address: Dept. of Anthropology, University of Alberta, Edmonton, Alberta, Can.

BRASCHLER, DR. CURTIS HOOVER, b. Doniphan, Mo, Nov. 12, 28. AGRICULTURAL ECONOMICS. B.S, Missouri, 50, M.S, 58; Ph.D, Purdue, 60. Asst. AGR. ECON, Missouri, 56-58; Purdue, 58-60; ASST. PROF, MISSOURI, 60- U.S.A, 50-52. Resource economics. Address: Dept. of Agricultural Economics, University of Missouri, Columbia, Mo. 65201.

BRASS, DR. PAUL R(ICHARD), b. Boston, Mass, Nov. 8, 36; m. 58; c. 2. POLITICAL SCIENCE. B.A, Harvard Col, 58; M.A, Chicago, 59, Nat. Defense Ed. Act fel, 60-61, Ford Found. fel, 61-63, Ph.D.(polit. sci), 64. Teaching intern Indian civilization, Chicago, 63-64; lectr. POLIT. SCI, Bryn Mawr Col, 64-65; ASSOC. PROF, WASHINGTON (SEATTLE), 65- Faculty res. fels, Am. Inst. Indian Studies & Am. Coun. Learned Socs, 66-67, Ford Found, 68-69. Polit. Sci. Asn; Asn. Asian Studies. Indian politics; party organization; politics of developing areas; international relations. Publ: Factional politics in an Indian state: the Congress Party in Uttar Pradesh, Univ. California, 65; Regions, regionalism, and research on modern Indian society and politics, In: Regions and regionalism in South Asian studies: an exploratory study, Duke Univ, 67; Uttar Pradesh, In: State politics in India, Princeton Univ, 68. Address: Dept. of Political Science, University of Washington, Seattle, Wash. 98105.

BRATT, PROF. ELMER C(LARK), b. Arapahoe, Nebr, Nov. 12, 01; m. 28; c. 1. STATISTICAL ECONOMICS. A.B, Nebraska, 25, A.M, 26, LL.D, 55; California, 26-27; Ph.D, Wisconsin, 35. Supt. schs, Nebr, 21-22, 23-24; asst, Nat. Bur. Econ. Res, 28-29; asst. prof. ECON, LEHIGH, 29-38, assoc. prof, 38-41, PROF, 41-, DIR. BUS. ECON. CENTER, 65- Indust. economist, Nat. Bur. Econ. Res, 36; chief econ. analyst, bur. for. & domestic commerce, U.S. Dept. Commerce, 42-45, expert, dept, 60-; prof, U.S. Army Univ.(France), 45-46; Fulbright scholar, Ceylon, 56. Econ. consult, Bethlehem Steel Co, 30-31, 49-; statist. consult, Cent. Statist. Bd, 35; consult, Bur. Budget, 56- Econ. Asn; Statist. Asn; Economet. Soc; Finance Asn; fel. Asn. Bus. Econ; Royal Econ. Soc. Economic growth and decadence. Publ: Business cycles and forecasting; Business forecasting; Availability and reliability of inventory data needed to study economic change. Address: 1521 W. Broad St, Bethlehem, Pa. 18018.

BRATTER, HERBERT M(AX), b. New York, N.Y, Jan. 22, 00. ECONOMICS. City Col. New York, 17-19; Columbia, 19-21. Statistician, Chinese Govt. Bur. Econ. Info, 22-23; with Droosten & Urquhart, N.Y, 23; Export Advert. Agency, New York, Chicago & Buenos Aires, 24-26; advert. mgr, Films, Metro-Goldwyn-Mayer Co, 27; with Prince & Whitley, N.Y, 28; specialist Far East finance, U.S. Govt, 29-35; econ. res, Loomis Sayles & Co, Mass, 35-37; private practice, 37-39; WASH. CORRESPONDENT, BANKING, 39- Asst. commercial attaché, Tokyo, Japan, 34; sr. econ. analyst, U.S. Dept. Treas, 34; mem, State Dept. For. Serv. Selection Bds, 55; correspondent, Can. Banker. Money and banking. Publ: Japanese banking, Govt. Printing Off, 31; Silver market dictionary, Commodity Exchange, Inc, 33; A bank director's job, 12th ed, Am. Bankers Asn, 68. Address: 3000 39th St, N.W, Washington, D.C. 20016.

BRATTON, PROF. C(HARLES) A(RTHUR), b. Delta, Ohio, Nov. 3, 14; m. 49; c. 2. AGRICULTURAL ECONOMICS. B.S, Ohio State, 37; Ph.D.(agr. econ), Cornell, 42. Res. asst, CORNELL, 37-38, 39-42, exten. instr, 38-39, instr. & res, 42-43, asst. prof. farm mgt, 46-48, assoc. prof, 48-54, PROF. FARM MGT. & EXTEN. LEADER, DEPT. AGR. ECON, 54- Vis. prof, Philippines, 52-53; Fulbright lectr. Kyoto, 59-60. U.S.A, 43-46, Capt. Farm Econ. Asn. Economic problems of young farmers; public administration and finance; rural government in New York; factors affecting the incomes of farmers; systems of accounting for farmers; electronic farm accounting. Address: Warren Hall, Cornell University, Ithaca, N.Y. 14850.

BRAUCHER, DR. FREDERICK ABBOTT, JR, b. Chicago, Ill, Sept. 6, 24; m. 58; c. 5. PSYCHOLOGY. A.B, Chicago, 47, Ph.D.(personality & psychopath), 54. Clin. psychol. trainee, Vet. Admin, 50-54; clin. psychologist, Lake County Ment. Health Clin, Ind, 54-55, chief clin. psychologist, 55-59; CLIN. PSYCHOLOGIST, inst. psychol. serv, Ill. Inst. Tech, 59-63; W. SIDE VET. ADMIN. HOSP, 63- Lectr, Gary Center, Indiana, 56-61. U.S.A.A.F, 43-46. Psychol. Asn. Psychology of aesthetics; personality development; individual and group psychotherapy. Address: Dept. of Psychology, West Side Veterans Administration Hospital, 820 S. Damen, Chicago, Ill. 60612.

BRAUCHI, DR. JOHN T(ONY), b. Sayre, Okla, Dec. 23, 27; m. 48; c. 3. PSYCHIATRY. M.D, Oklahoma, 55. Instr. PSYCHIAT, SCH. MED, KANSAS, 58-60, asst. prof, 60-65, ASSOC. PROF, 65-, DIR. RES. OUTPATIENT CLIN. & PRFNL. SERV, 64-, RESIDENCY ED, 66-, inpatient serv, 60-61. Dir, Atchison County Guid. Clin, Kans, 59-60, consult, 60-61; acting chief psychiat. serv, Vet. Admin. Hosp, Kansas City, Mo, 61-63. Psychiat. consult, Vet. Admin. Consol. Center, Wadsworth, Kans, 59-61. Fel. Psychiat. Asn; Am. Med. Asn; Asn. Am. Med. Cols. Residency education; correlating physiological concommitants of the orienting reflex with gross locomotor behavior utilizing new radioisotope technique of experimental subject in a gang cage. Address: Dept. of Psychiatry, School of Medicine, University of Kansas Medical Center, Kansas City, Kans. 66103.

BRAULT, PROF. (FLORENT), b. Montreal, Que, Aug. 7, 13. ECONOMICS. Ph.L, Ottawa, 36, M.A, 38, S.T.L, 40; Ph.D.(econ), St. Louis, 52. PROF. ECON. & HEAD DEPT, OTTAWA (ONT), 54- Econ. Asn; Can. Polit. Sci. Asn; Inst. Pub. Admin. Can. Public finance; monetary theory; Keynesian economics. Address: Dept. of Economics, University of Ottawa, Laurier Ave, Ottawa, Ont, Can.

BRAUN, DR. ELMER WILLIAM, b. Sheboygan, Wis, Nov. 15, 02; m. 30; c. 3. AGRICULTURAL ECONOMICS, BUSINESS ADMINISTRATION. B.S, Minnesota, 25, M.A, 26; Soc. Sci. fel, Rockefeller Found, 32; Ph.D.(econ, polit. sci); Columbia, 34. Exten. specialist, agr. econ, California, 27-33; head econ. analysis unit, div. mkts, U.S. Dept. Agr, 33-39; mkt. economist, bur. mkt, CALIF. STATE DEPT. AGR, 39-41, assoc. chief, 41-55, chief, 55-60, ECON. ADV, 60- Farm Econ. Asn; Soc. Pub. Admin; Mkt. Asn. Position of agriculture in economy of California; state and federal marketing order programs; European common market and its significance to California; urban sprawl. Address: State Dept. of Agriculture, 1220 North St, Sacramento, Calif. 95814.

BRAUN, DR. JEAN S, b. Detroit, Mich, Mar. 7, 21; m. 42; c. 2. PSYCHOLOGY. B.A, Michigan, 42; M.A, Wayne State, 50, fel, 56-57, M.A, 57, Ph.D. (psychol), 61. Intern clin. psychol, Hawthorn Center, 57-58; diagnostician, Wayne State, 58-59, acting dir. diag. reading center, 59-60; staff psychologist, childrens & adolescents serv, LAFAYETTE CLIN, 60-62, CHIEF PSYCHOLOGIST, childrens serv, 62-65, ADOLESCENT SERV, 65- Adj. asst. prof, Wayne State, 63- Soc. Res. Child Develop; Psychol. Asn. Clinical psychology; learning disabilities; cognitive-motor skills. Publ: Cognitive-motor deficits—definition and intervention, Home for Crippled Children, Pittsburgh, 67; Relationship between concept formation and reading at three developmental levels, Child Develop, 63; co-auth, Cognitive-perceptual-motor functions in children—a suggested change in approach, J. Sch. Psychol, 65. Address: Lafayette Clinic, 951 E. Lafayette, Detroit, Mich. 48207.

BRAUN, PROF. JOHN R(ICHARD), b. Brooklyn, N.Y, Dec. 24, 28; m. 60; c. 1. PSYCHOLOGY. A.B, Long Island, 50; Nebraska, 50-51; Ph.D, California, 57. Asst. PSYCHOL, California, 53-56; from instr. to asst. prof, Carleton Col, 56-59; asst. prof, Bucknell, 59-60; assoc. prof, Texas Christian, 60-61; from assoc. prof. to PROF. & CHMN. DEPT, BRIDGEPORT, 61- Summers, res. psychologist, U.S. Pub. Health Serv, 57, vis. asst. prof, Nebraska, 58, Long Island, 59. C.Eng, U.S.A, 46-47. Psychol. Asn; Ed. Res. Asn; Coun. Measurement in Ed. Fakability of personality inventories; semantic satiation; word association. Publ: Clinical psychology in transition, World, 61, rev. ed, 65; Contemporary research in learning, Van Nostrand, 63; Three tests of the McClelland discrepancy hypothesis, Psychol. Reports. Address: Dept. of Psychology, University of Bridgeport, Bridgeport, Conn. 06602.

BRAUN, DR. JOSEPH JAY, b. Juneau, Alaska, Oct. 14, 38; m. 65; c. 1. PSYCHOLOGY. B.A, Oregon, 61; U.S. Pub. Health Serv. fel, Ohio State, 61-65, M.A, 63, Ph.D.(physiol. psychol), 65. ASST. PROF. PSYCHOL, YALE, 65- U.S. Pub. Health Serv. res. grant, 66- AAAS. Recovery of behavioral function following damage to the central nervous system; role of neocortex in the organization of behavior. Publ: The neocortex and visual placing in the rat, Brain Res, 2/66; co-auth, Sparing of a brightness habit in visually decorticated rats, J. Comp. & Physiol. Psychol, 2/66. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06520.

BRAUN, PROF. KURT, b. Berlin, Germany, Sept. 13, 99; nat; m. 30; c. 1. ECONOMICS. J.S.D.(law & econ), Berlin, 22. Judge, Fed. Dist. Court, Berlin, 23; asst. to chief price calculating dept, Int. Price Cartel Incandescent Lamp Mfrs, 24; attorney, 24-38; res. assoc. ECON, New Hampshire, 40-42; VIS. PROF, HOWARD, 42-; CHIEF WEST. EUROPEAN SECT, BUR. LABOR STATIST, U.S. DEPT. LABOR, 60- Mem. staff, Brookings Instn, 42-51; br. chief, War Stabilization Bd, 51. Consult, Univ. Maryland & Catholic Univ, 67- Econ. Asn; Indust. Rels. Res. Asn. Labor; management; comparative economic systems. Publ: Labor disputes and their settlement; The right to organize and its limits; Union-management cooperation. Address: 2904 Argyle Dr, Alexandria, Va. 22305.

BRAUN, PROF. LEV, b. Novy Bydzov, Czech, Nov. 23, 13; U.S. citizen; m. 48. POLITICAL SCIENCE, MODERN HISTORY. Dr.jur, Charles Univ. Prague, 38; M.A, Columbia, 61. Ed, Brit. Broadcasting Corp, Eng, 41-49; sr. ed. for. affairs, Free Europe Cmt, N.Y, 50-67; ASST. PROF. HIST, FAIRLEIGH DICKINSON, RUTHERFORD CAMPUS, 67- International affairs; Soviet block and western Europe. Address: 50 Central Park W, New York, N.Y. 10023.

BRAUNSTEIN, DR. DANIEL N, b. New York, N.Y, July 29, 38; m. 62. INDUSTRIAL PSYCHOLOGY. A.B, Cornell, 59; M.S, Purdue, 61, Ph.D.(psychol), 64. Proj. dir. training res, U.S. Navy Personnel Res. Activity, 63-65; ASST. PROF. BEHAV. SCI, COL. BUS, ROCHESTER, 65- Consult, local banking & construct. indust, 67- Psychol. Asn. Organizational psychology, including selection, training, performance evaluation, motivation, leadership and career choice. Publ: Training understanding of relative motion, U.S. Navy Personnel Res. Tech. Bull, 65; Preference scaling of careers and organizations, J. Appl. Psychol, 69; The design of behavioral research, Acct. Rev, 68. Address: College of Business, University of Rochester, Rochester, N.Y. 14627.

BRAUNSTEIN, DR. MYRON L, b. New York, N.Y, Sept. 3, 36. PSYCHOLOGY. B.S, Brooklyn Col, 56; M.S, Michigan, 57, Ph.D.(psychol), 61. Assoc. psychologist, Cornell Aeronaut. Lab. Inc, 60-62, res. psychologist, 62-63; Flight Safety Found, Inc, 63-64, res. progs. mgr, 64-65; asst. prof. PSYCHOL, CALIFORNIA, IRVINE, 65-67, ASSOC. PROF, 67- Psychol. Asn; Human Factors Soc. Visual perception; information processing models of human behavior; applications of computers to psychological research; traffic and aviation safety. Publ: The perception of depth through motion, Psychol. Bull, 9/62; Depth perception in rotating dot patterns, 10/62 & Sensitivity of the observer to transformations of the visual field, 11/66, J. Exp. Psychol. Address: Dept. of Psychology, University of California, Irvine, Calif. 92664.

BRAUNTHAL, PROF. GERARD, b. Gera, Germany, Dec. 27, 23; nat; m. 50; c. 2. POLITICAL SCIENCE. B.A, Queens Col, 47; M.A, Michigan, 48; Ph.D. (polit. sci), Columbia, 53. Res. asst, Nat. Bur. Econ. Res, 53-54; instr. GOVT, MASSACHUSETTS, 54-57, asst. prof, 57-62, assoc. prof, 62-67, PROF, 67- Vis. Fulbright prof, Frankfurt, 59-60; Visva-Bharati, India, 65-66. U.S.A, 43-46. Polit. Sci. Asn. Comparative government; international relations and organizations; German trade unions and industry. Publ: The federation of German industry in politics, Cornell, 65; The free democratic party in West German politics, West. Polit. Quart; contrib, West Germany, In: Cases in comparative politics, Little Brown, 65. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

BRAVERMAN, DR. HOWARD O, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRAWER, DR. MILTON J, b. Paterson, N.J, Aug. 31, 26; m; c. 3. SOCIOLOGY. A.B, Harvard, 48; Pop. Coun, Inc. fel, Columbia, 53-54, Soc. Sci. Res. Coun. fel, 58-59, Ph.D.(sociol), 65. Lectr. SOCIOL, Queens Col.(N.Y), 55-58; asst. prof, WESTERN MICHIGAN, 60-66, ASSOC. PROF, 66-, ACTING DIR, CENTER SOCIOL. RES, 67- U.S.A, 44-46. Sociol. Asn; Statist. Asn; Pop. Asn. Population analysis; mental health; sociological research. Publ: Co-auth, Validating a mental health scale, 2/63 & Estimating the prevalence of mental illness, Am. Sociol. Rev. & Public and psychiatric conceptions of mental illness, J. Health & Human Behav, spring 65. Address: Dept. of Sociology, Western Michigan University, Kalamazoo, Mich. 49001.

BRAWLEY, PROF. HARRY M(ORGAN), b. Charleston, W.Va, Oct. 8, 09. POLITICAL SCIENCE. A.B, West Virginia, 31, A.M, 32; Duke, 38-39. Asst. prof. POLIT. SCI, MORRIS HARVEY COL, 32-39, ASSOC. PROF, 39-; EXEC. SECY, W.VA, ED. BROADCASTING AUTHORITY, 65- Teacher, pub. schs, W.Va, 32-40, prin, 40-45; dir. pub. affairs, radio sta, WCHS & WCHS-TV, 45-65. Mem, Nat. Cmt. Instructional TV Fixed Serv, 67- Nat. Asn. Ed. Broadcasters; Mus. Natural Hist. College education; radio and television classroom; experimental broadcasts offering college credit over the air. Contrib, Nat. Asn. Ed. Broadcasters J, J. Geog; Guide for using radio and television in the classroom, W.Va. Ed. Broadcasters Authority, 66. Address: 1534 Bedford Rd, Charleston, W.Va. 25314.

BRAY, DR. CHARLES WILLIAM, b. Pittsburgh, Pa, May 14, 04; m. 33; c. 3. PSYCHOLOGY. B.S, Princeton, 25, A.M, 26, Ph.D.(psychol), 28. Instr. psychol, Princeton, 28-31, asst. prof, 31-38, assoc. prof, 38-46, prof, 46-51; assoc. dir. res, Human Resources Res. Center, 50-54; dep. chief of staff opers, Air Force Personnel & Training Res. Center, 54-56, dep. tech. dir, 56-57; spec. res. dir, SMITHSONIAN INST, 59-64, CONSULT, 64- Res. investr, Nat. Res. Coun, 41-42, exec. secy. cmt. serv. personnel, 42-43; tech. aide, Nat. Defense Res. Cmt, 42-43, appl. psychol. panel, 43, 44, chief panel, 45, 46; mem. sci. adv. bd, U.S. Air Force, 46,47. Warren medal, 36. AAAS; fel. Psychol. Asn; Soc. Exp. Psychol. Psychophysiology of hearing; military psychology. Address: 2205 46th St, N.W, Washington, D.C. 20007.

BRAY, DR. J(AMES) O(SCAR), b. Monrovia, Ind, Dec. 31, 20; m. 47; c. 3. ECONOMICS. B.S.A, Purdue, 43, M.S, 48; M.A, Chicago, 51, Ph.D, 55; Balliol Col, Oxford, 54-55. Res. assoc. agr. econ, Chicago, 50-51; asst. prof, Kans. State Col, 51-55, assoc. prof, 55-56; econ, Chicago, 56-61; res. assoc, Food Res. Inst, Stanford, 61-65, SR. ECONOMIST, STANFORD RES. INST, 65- Fund Adv. Ed. faculty fel. Consult. econ. mission to Argentina, Int. Bank Reconstruct. & Develop, 64, econ. mission to Paraguay, 65. U.S.A.A F, 43-45, 2nd Lt. Econ. Asn; Agr. Econ. Asn. Agricultural policy; economic theory; political theory. Address: Stanford Research Institute, Menlo Park, Calif. 94025.

BRAY, ROBERT T(AYLOR), b. Sparta, Mo, Jan. 23, 25; m. 48; c. 2. ARCHAEOLOGY, ANTHROPOLOGY. B.S, Southwest Mo. State Col, 53; A.M, Missouri, 55. Res. asst, Missouri, 53-54, res. assoc. archaeol, 54-56; archaeologist, Nat. Park Serv, Effigy Mounds Nat. Monument, 57-58, Ocmulgee Nat. Monument, 58-59; DIR. LYMAN ARCHAEOL. RES. CENTER, MISSOURI, 59- U.S.A, 44-46. AAAS. History; museology. Publ: Archaeology of the Rice site, Mo. Archaeologist; Missouri Indian tribe in archaeology and history, Mo. State Hist. Soc, 4/61; Exploring the past at Van Meter, Nat. Parks Asn, 8/61. Address: University of Missouri Lyman Archaeological Research Center, Hamilton Field School, Miami, Mo. 65344.

BRAY, DR. WARREN C, b. Granby, Mass, Apr. 17, 15; m. 44; c. 3. ACCOUNTING. B.S, Massachusetts, 38; A.M, Columbia, 43; Ph.D, N.Y. Univ, 58. Instr. bus. admin, Kents Hill Jr. Col, 41-42; Tilton Jr. Col, 42-43; from asst. prof. to assoc. prof. econ, Heidelberg Col, 43-46; pub. acct, S.D. Leidesdroff Co, 46-47; asst. prof. econ, Washington & Jefferson Col, 47-49; from asst. prof. to assoc. prof. acct. & finance, Akron, 49-50; PROF. ACCT. & CHMN DEPT, CALIF. STATE COL. LOS ANGELES, 59- Finance Asn; Am. Acct. Asn; Nat. Asn. Acct; Inst. Cert. Pub. Acct. Finance. Address: 1100 Daveric Dr, Pasadena, Calif. 91107.

BRAYBROOKE, PROF. DAVID, Polit. Sci, Philos, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

BRAYER, DR. ALBERT RICHARD, b. Rochester, N.Y, Apr. 27, 32. PSYCHOLOGY. B.A, Rochester, 54; M.A, Utah, 56; univ. fel, Massachusetts, 56-60, U.S. Pub. Health Serv. fel, 60-61, Ph.D.(psychol), 62. Statist. asst, Utah, 55-56; asst. prof. PSYCHOL, HARTFORD, 61-67, ASSOC. PROF, 67- AAAS; Psychol. Asn. Social psychology, particularly attitude formation, measurement and change, interpersonal relations and decision processes. Publ: Scaling difficulty levels of TAT cards, J. Proj. Techs; Externalization in perceptual defense, J. Abnorm. & Soc. Psychol; An experimental investigation of some parameters of minimax theory, Behav. Sci, 64. Address: 156 W. Main St, Apt. E-7, Avon, Conn. 06001.

BRAYER, EDWARD F(RANK), b. Rochester, N.Y, Sept. 12, 10; m. 37; c. 6. ECONOMICS, STATISTICS. A.B.& M.A, Rochester, 35; Pennsylvania, 60-61. Chief statistician, bur. employ. compensation, U.S. Dept. Labor, D.C, 43-66; RESEARCHER, Center Appl. Res. in Apostolate, 67; HUMAN RESOURCES DIV, ED. SECT, BUR. BUDGET, EXEC. OFF. PRESIDENT, 67- Consult. to Gov, Virgin Islands, 53; tech. adv, work injury cost rates subcmt, U.S. Senate, 54; workmen's compensation proj. mgr, U.S. Dept. Labor & For. Opers. Admin, 55. Statist. Asn; Soc. Safety Eng. Workmen's compensation; accident prevention; statistical methodology; distribution and utilization of United States Catholic Clergy; federal aid to children and youth; federal aid for education, training and related activities. Publ: Can safety be handled statistically?, J. Am. Statist. Asn; Compensation progress, U.S. Dept. Labor Safety Bull; What every federal employee should know about the Federal Employees' Compensation Act. Address: Bureau of the Budget, Executive Office of the President, Executive Office Bldg, Room 390, Washington, D.C. 20503.

BRAYER, HERBERT O(LIVER), b. Montreal Que, June 1, 13. ECONOMIC HISTORY. A.B, Southern California, 35; A.M, New Mexico, 36; California, 37-38, 50, 51. Dir, Coronado Cuarto Centennial, N.Mex, 39-40; archivist, Denver & Rio Grande West. R.R. Co, 41-43; state archivist, Colo, 43-49; asst. prof. bus. hist, Northwestern, 49-53; assoc. ed, Am. Bus. Mag, 54-56; prof, off. automation, Loyola (Ill), 56-61; med. economist & exp. secy, Riverside County Med. Asn, 61-64; chmn. soc. sci, Moreno Valley Unified Sch. Dist, 64-68; COORDINATOR, TITLE III PROJECTS, CORONADO UNIFIED SCH. DIST, 68- Soc. Sci. Res. Coun. fel, 42-43; dir, West. Range Cattle Indust. Study, State Colo. & Rockefeller Found, 44-49; coop. proj. for res. in Europe, State Colo. & Library Cong, 46-47; secy. gen. int. coun. archives & consult, UNESCO, France, 47-50. Econ. Hist. Asn; Soc. Archivists (v.pres, 47); Hist. Asn; Hakluyt Soc. Office automation; electronics systems and procedures; management science; economic historian. Address: 706 Sixth St, Coronado, Calif. 92118.

BRAYFIELD, DR. ARTHUR H(ILLS), b. Peru, Kans, May 22, 15; m. 40; c. 4. PSYCHOLOGY. B.S, Minnesota, 39, Ph.D.(psychol), 46. Dean, Long Beach City Col, 46-48; asst. prof, California, 48-53; prof. psychol. & chmn. dept, Kansas State, 51-58; Pa. State, 58-62; EXEC. OFFICER, AM. PSYCHOL. ASN, 62- Res. assoc, Columbia, 51; Nat. Sci. Found. faculty fel, 57-58. Consult, U.S. War Dept, 43-44; Contra Costa Jr. Col, 50. Psychol. Asn; Indust. Rels. Res. Asn. Job satisfaction; personnel testing; vocational psychology. Publ: Ed, Readings in modern methods of counseling; co-auth, Employee attitudes and employee performance, Psychol. Bull; Index of job satisfaction, J. Appl. Psychol. Address: 7216 Rollingwood Dr, Chevy Chase, Md. 20015.

BRAZEAL, DEAN BRAILSFORD R(EESE), b. Dublin, Ga, Mar. 8, 05. ECONOMICS. A.B, Morehouse Col, 27; A.M, Columbia, 28, Soc. Sci. Res. Coun. fel, 32-33, Rosenwald Fund fel, 38-39, Ph.D, 42; Rosenwald scholar, Inst. Race Rels.(Pa), 33. Instr. ECON, MOREHOUSE COL, 28-34, chmn. dept, 34-46, PROF, 46-, ACAD. DEAN, 46-, dean of men, 34-46. Exchange teacher, Spelman Col. & Atlanta; assoc, Hazen Found, 40-45; Rosenwald Fund fel, 47-48. Rosenwald prize. Econ. Asn; Acad. Polit. & Soc. Sci. Labor economics; history of fair employment practice. Publ: The origin and development of the brotherhood of sleeping car porters, Harper. Address: Dept. of Economics, Morehouse College, Atlanta, Ga. 30314.

BRAZEAU, PROF. J(OSEPH) E(RNEST) JACQUES, b. Rigaud, Que, Sept. 5, 23; m. 51; c. 1. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, McGill, 49, Bd. Governors fel, 48-50, M.A, 51; Henderson fel, Chicago, 50-51, Can. Soc. Sci. Res. Coun. fel, 51-52, Ph.D.(scoiol), 61. Sci. serv. officer sociol. res, Defence Res. Med. Labs, Defence Res. Bd. Can, 53-60; asst. prof. SOCIOL, MONTREAL, 60-61, ASSOC. PROF, 61- C.D. Howe Mem. fel, 64-65. Consult, Defence Res. Bd. Can, 60-; Dept. Manpower & Immigration, Can, 66-Mem, Acad. Panel Can. Coun. & cmt. socioling, Soc. Sci. Res. Coun, 67. R.C.A.F, 42-46. Am. Sociol. Asn; Can. Sociol. & Anthrop. Asn; assoc. Can. Psychol. Asn; Can. Ling. Asn. Multi-lingual societies, especially problems of communication and their consequences for the division of labour and cultural growth. Publ: Language differences and occupational experience, Can. J. Econ. & Polit. Sci; Practice of medicine in Montreal; Essai surla question linguistique en Belgique, Royal Cmn. Bilingualism & Biculturalism, 66. Address: Dept. of Sociology, University of Montreal, Montreal, Que, Can.

BRAZELTON, DR. W(ILLIAM) ROBERT, b. Oklahoma City, Okla, Sept. 30, 33. ECONOMICS. B.A, Dartmouth Col, 56; M.A, Oklahoma, 60, Ph.D, 61. Instr. ECON, Wisconsin-Milwaukee, 60-61; asst. instr, Kansas State, 61-63; asst. prof, MISSOURI, KANSAS CITY, 63-65, ASSOC. PROF, 66-, ACTING CHMN. DEPT, 67- Ford Found. summer res. fel, Texas, 64; Nat. Sci. Found. faculty res. grant, summer, 67. Coordinator, Workshop Econ. Ed, Milwaukee-Wisconsin, 61. Econ. Asn. Comparative analysis of the growth theories of Alven Hansen and William J. Fellner; international monetary fund; Soviet and Slavic studies; comparative economics systems; macro and monetary theory; Soviet agricultural and industrial reforms; communist growth models. Publ: Statement, In: The federal reserve portfolio subcommittee on economic progress, Joint Econ. Cmt. Cong, 66. Address: Dept. of Economics, University of Missouri at Kansas City, 5100 Rockhill Rd, Kansas City, Mo. 64110.

BRAZER, PROF. HARVEY E(LLIOT), b. Montreal, Que, Can, Oct. 18, 22; nat; m. 48; c. 3. ECONOMICS. B.Com, McGill, 43; A.M, Columbia, 47, Ph.D. (econ), 51. Instr. econ, Rutgers, 47-48; finance, Lehigh, 48-50; asst. prof. ECON, Wayne, 50-57; PROF, MICHIGAN, 57-, CHMN. DEPT, 67- Ford Found. faculty res. fel, 66-67. Res. dir, State Tax Study Cmt, Minn, 56; State Tax Study, Mich, 57-58; dir. off. tax anal, U.S. Treas. Dept, 61-63. Consult, Munic. Finance Policy Cmt, Grand Rapids, Mich, 52-53. Except. serv. award, U.S. Dept. Treas, 63. Can. Army, 43-46, Lt. Econ. Asn; Tax Inst; Can. Polit. Sci. Asn; Royal Econ. Soc. Public finance and taxation, especially state and local finance. Publ: Fiscal aspects of metropolitanism, Syracuse Univ, 62; co-auth, Income and welfare in the U.S, McGraw, 62 & Economic behavior of the affluent, Brookings, 66. Address: Dept. of Economics, University of Michigan, Ann Arbor, Mich. 48104.

BRAZIL, PROF. BURTON R(USSELL), b. Los Angeles, Calif, Mar. 11, 20; m. 41; c. 4. POLITICAL SCIENCE. B.A, California, Los Angeles, 41, M.A, 48; Ph.D.(polit. sci), Stanford, 54. Instr. POLIT. SCI, Tennessee, 47-48;

Stanford, 50-51, 52-53; Washington (Seattle), 51-52; from instr. to PROF, SAN JOSE STATE COL, 53- Mayor, City of Saratoga, Calif, 56-64. U.S.A, 41-45, Res, 45, Col. Polit. Sci. Asn; Mil. Govt. Asn. Political theory; politics; American government, national, state and local. Publ: Co-auth, A citizen's guide to California government; auth, The 1950 elections in California, West. Polit. Quart. Address: 7450 Barnhart Place, San Jose, Calif. 95129.

BRAZIL, PROF. HAROLD E, b. Bearden, Ark, Aug. 24, 20; m. 54; c. 4. POLITICAL SCIENCE. B.Sc, Tuskegee Inst, 42; M.A, Ohio State, 52, Ph.D. (polit. sci), 61. Placement officer, U.S. Vet. Admin, 46-49; dir. civilian personnel, Int. Refugee Orgn, 49-50; instr. int. rels, Ohio State, 50-55; civilian personnel officer, Southeast Asia, U.S. Air Force, 55-57, dir. res. hist. & polit, 57-59, mil. historian, 59-62; cultural attaché, U.S. Info. Agency, 62-66; PROF. POLIT. SCI. & CHMN. DEPT, ST. BERNARDINE OF SIENA COL, 66- Vis. prof, Philippines, 58-61; Liberia, 61-62. U.S.A.F, 42-46, Capt. Polit. Sci. Asn; Int. Studies Asn. International relations, especially problems of the developing areas; Southeast Asia; Africa. Publ: The politics of Philippine economic development, Univ. Philippines, 62. Address: Dept. of Political Science, St. Bernardine of Siena College, Loudonville, N.Y. 12211.

BRECHER, PROF. MICHAEL, b. Montreal, Que, Mar. 14, 25; m. 50; c. 3. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, McGill, 46; M.A, Yale, 48, Ph.D, 53. Lectr, POLIT. SCI, McGILL, 52-54, asst. prof, 54-58; assoc. prof, 58-63, PROF, 63- Nuffield Found. traveling fel, 55-56; Can. Coun. travel grant, 60; vis. prof, Chicago, 63; Rockefeller fel. int. rels, 64-65; Guggenheim fel, 65-66. Mem, Can. Inst. Int. Affairs. Watumull prize, Am. Hist. Asn, 60. Asn. Asian Studies; Can. Polit. Sci. Asn. Political leadership in Asia and Africa; comparative studies in foreign policy; international relations of southern Asia and Middle East. Publ: The new states of Asia, Oxford Univ, 63; Succession in India, 66 & India and world politics, 68, Oxford Univ. & Praeger. Address: Dept. of Economics & Political Science, McGill University, Montreal, Que, Can.

BRECHER-MARER, DR. SYLVIA, b. Brooklyn, N.Y; m. 58. PSYCHOLOGY. B.A, N.Y. Univ, 38, M.A, 40, Ph.D, 55. Staff psychologist, Clarinda State Hosp, Iowa, 42-43; jr. psychologist, N.Y. State Psychiat. Inst. & Hosp, 43-47; staff psychologist, U.S. Naval Hosp, St, Albans, Vt, 47-48; Vet. Admin. Ment. Hyg. Clin, New York, 48-49; sr. psychologist, GRASSLANDS HOSP, VALHALLA, 49-58, PSYCHIAT. CONSULT, 59- Res. psychologist, neurosurg. serv, Kings County Hosp, New York, 38-41; Jewish Chronic Disease Hosp, Brooklyn, 39-41; psychol. technician, Bellevue Psychiat. Hosp, 41-42; intern, Phila. State Hosp, Pa, 42; instr, grad. sch, N.Y. Univ, 47-56, consult. psychologist, testing & adv. center, 47-52. Consult, Family Serv. Soc, 53- Dipl, Am. Bd. Exam. Psychol. Hypnosis. Psychol. Asn; Soc. Clin & Exp. Hypnosis; Group Psychother. Asn. Parental relationships in schizophrenic patients; hypnosis; age regressions; multiple personality studies; treatment with schizophrenic patients. Publ: Rorschach reaction patterns of maternally overprotected and maternally rejected schizophrenic patients; Value of diagnostic signs for schizophrenia on the Wechsler-Bellevue adult intelligence test; collab, Emergence of multiple personalities in the course of hypnotic investigation. Address: 43-21 244th St, Douglaston, N.Y. 11363.

BRECHLING, PROF. FRANK PAUL RICHARD, b. Wismar, Germany, Dec. 6, 31; m. 59; c. 1. ECONOMICS. B.A, Trinity Col.(Dublin), 55. Asst. lectr. econ, Liverpool, 56-58, lectr, 58; economist, Nat. Econ. Develop. Off, 62-64; res. officer, Nat. Inst. Econ. & Soc. Res, 64-65; vis. assoc. prof. ECON, Mass. Inst. Tech, 65-66; PROF, NORTHWESTERN, 66-, CHMN. DEPT, 67- Summer vis. prof, Melbourne, 67. Economet. Soc; Royal Econ. Soc. Publ: Co-auth, Theory of interest rates, Macmillan, 65; Trade credit and monetary policy, Econ. J, 12/63; auth, Output and employment in British manufacturing, Rev. Econ. Studies, 7/65. Address: 2233 Forestview Rd, Evanston, Ill. 60201.

BRECHT, PROF. R(OBERT) P(AUL), b. Lancaster, Pa, Apr. 25, 99. BUSINESS ADMINISTRATION. B.S, Pennsylvania, 22, A.M, 25, Ph.D, 31. Instr, PENNSYLVANIA, 22-34, res. assoc, dept. indust. res, 31, asst. prof, 34-41, assoc. prof, 41-42, chmn. dept. geog. & indust, 41-58, prof. indust, 42-67, mem, Wharton Labor Rel. Coun, 47-57, EMER. PROF. INDUST, 67- Lectr, pub. serv. inst, State Dept. Pub. Instruct, Commonwealth of Pa, 41-44, employ. consult, 34. Res. consult, Works Progress Admin-Nat. Res. Proj, 36. Impartial chmn, N.Y. Shipbldg. Corp, 36-47; chmn. indust. cmt, 36, wage & hour div, U.S. Dept. Labor, 41, cmt, 59, 43; impartial chmn, Phila. Knitted Outerwear Indust, 43- Mem. res. proj, Controllers Inst. Res. Found, 60-67; bd. judges, Kirkpatrick award mgt. achievement, McGraw-Hill, 62- Leffingwel medal, Nat. Off. Mgt. Asn, 48. Acad. Arbit. Industrial management and relations; financial incentives; administrative controls. Address: 1259 Hunt Club Lane, Media, Pa. 19063.

BRECKENRIDGE, DR. A(DAM) C(ARLYLE), b. Mo, July 10, 16. POLITICAL SCIENCE. A.B, Northwest Mo. State Col, 36; M.A, Missouri, 38; Ph.D. (polit), Princeton, 42. Instr. polit. sci, NEBRASKA, 46-48, asst. prof, 48-50, assoc. prof, 50-55, PROF. POLIT. SCI, 55-, v.chancellor int. progs, 66-68, chmn. dept, 53-55, chancellors asst. for acad. affairs, 55, dean faculties, 55-66. Mem, Lincoln City-Lancaster County Planning Cmn, 65-72. U.S.N.R, 42-46, 50-52, Res, 63-, Capt. Polit. Sci. Asn. American state and local government; political parties and elections; public administration. Publ: One house for two: a study of Nebraska's unicameral legislature; co-auth, Law enforcement in Missouri; co-ed, Readings in American state government. Address: Oldfather Hall, City Campus, University of Nebraska, Lincoln, Nebr. 68508.

BRECKENRIDGE, PROF. WALTER N(ELSON), b. Sturbridge, Mass, Nov. 2, 03. ECONOMICS. B.S, Tufts Col, 26, A.M, 28; Columbia, 38-39. Instr. ECON, COLBY COL, 28-30, asst. prof, 30-37, assoc. prof, 37-47, PROF, 47-, chmn. dept, 52-64. Econ. Asn. Government regulation of business; public finance; history of economic thought. Address: Dept. of Economics, Colby College, Waterville, Maine 04901.

BRECKNER, DR. NORMAN V(AUGHAN), b. Olympia, Wash, June 3, 22; m. 43; c. 2. ECONOMICS. B.A, Washington (Seattle), 47, M.A, 49; Ph.D.(econ), Chicago, 56. Lectr. econ, Northwestern, 52-53; acting asst. prof, California, Los Angeles, 53-56, asst. prof, 56-60; COST ANALYST, Rand Corp, Calif, 60-62; CENTER NAVAL ANAL, 62- U.S.A.A.F, 42-46, Lt. Econ. Asn. Publ: Search for an appropriations basis, Nat. Tax J; Government efficiency and the military 'buyer-seller device' & Liquidity and farm investment outlays, J. Polit. Econ. Address: Center for Naval Analysis, 1401 Wilson Blvd, Arlington, Va. 22209.

BRECKWOLDT, DR. JOHN P, b. Passaic, N.J, Apr. 19, 37. PSYCHOLOGY. B.A, Colorado, 60; M.A, Denver, 61, Ph.D.(psychol), 64. ASSOC. PROF. PSYCHOL, MONMOUTH COL.(N.J), 64- Psychol. Asn; Personnel & Guid. Asn. Personality theory; personality assessment; psychotherapeutic techniques. Address: 133 E. 73rd St, New York, N.Y. 10021.

BREDEMEIER, DR. HARRY C(HARLES), b. Cincinnati, Ohio, Jan. 26, 20. SOCIOLOGY. A.B, Cincinnati, 42; Ph.D, Columbia, 55. From asst. prof. to assoc. prof. SOCIOL, DOUGLAS COL, RUTGERS, 49-60, PROF, 60-, CHMN. DEPT, 68- AAAS; Sociol. Asn. Institutional input-output analysis. Publ: Social problems in America, Wiley, 60; Analysis of social systems, Holt, 62; Family of orientation & Family of procreation, In: Low income youth in urban areas, Holt, 67. Address: Dept. of Sociology, Douglass College, Rutgers, The State University, New Brunswick, N.J. 08903.

BREDO, DR. WILLIAM, b. Calgary, Alta, Can, Feb. 7, 12; nat; m. 43; c. 1. ECONOMICS. B.A, Alberta, 42; fels. & M.S, Iowa State, 43; M.A, Harvard, 46, Ph.D, 48. Labor economist, res. & statist. br, Dom. Dept. Labor, Can, 43-44; agr. economist, bur. agr. econ, U.S. Dept. Agr, 44-45, head dairy & poultry sect, 50-51; asst. prof. mkt. res. & exten, New Hampshire, 46-48; exec. secy, New Eng. Res. Coun. Mkt. & Food Supply, 48-50; sr. economist, STANFORD RES. INST, 52-62, mgr, int. develop. center, 62-65, DIR. FOOD & AGR. PROG, 67- Farm Econ. Asn.(award, 52); Econ. Asn; Economet. Soc; Can. Agr. Econ. Soc. Economic development; agricultural marketing; regional economics; economic programing and national economic policy; strategy of economic development. Publ: Industrial estates: tool for industrialization; Rural industrialization for agricultural development, J. Farm Econ; co-auth, Prices and milk sheds for northeastern markets, Mass. Agr. Exp. Sta. Bul. Address: 13820 Page Mill Rd, Los Altos Hills, Calif. 94022.

BREED, PROF. WARREN, b. San Francisco, Calif, Apr. 23, 15; m. 48; c. 2. SOCIOLOGY. B.A, Stanford, 37; Ph.D.(sociol), Columbia, 52. From asst. prof. to assoc. prof. SOCIOL, NEWCOMB COL, TULANE, 50-63, PROF, 63- Nat. Inst. Ment. Health res. grant, 63-64, 67-69; fel, Los Angeles Suicide Prev. Center, 65-66. Mem. cmt. suicide res, Nat. Inst. Ment. Health, 66- U.S.A, 41-45, Capt. Sociol. Asn. Social control processes in newspaper production; social disorganization; disseminating sociological materials via the mass media. Publ: Auth, Social control in the newsroom: a functional analysis, Soc. Forces, 5/55; co-auth, Pluralistic ignorance in the process of opinion formation, Pub. Opinion Quart, fall 61; auth, Occupational mobility and suicide among white males, Am. Sociol. Rev, 4/63. Address: Dept. of Sociology, Newcomb College, Tulane University, New Orleans, La. 70118.

BREEN, PROF. JOHN J, b. Providence, R.I, Feb. 4, 23; m. 58; c. 1. MARKETING. B.S, Providence Col, 47, hon. M.A, 58; M.S, Columbia, 49; Ph.D, Clark, 57. From instr. to PROF. BUS. ADMIN, PROVIDENCE COL, 47-, CHMN. DEPT, 66- U.S.A, 43-46. Mkt. Asn; Econ. Asn; Am. Acct. Asn. Governmental regulation of business; sales and marketing management. Publ: Contrib. to Principles of Accounting, Principles of Marketing & Advancing marketing efficiency, Am. Mkt. Asn. Address: 146 Hilary Dr, Providence, R.I. 02908.

BREEN, PROF. LEONARD Z, b. Chicago, Ill, Sept. 26, 22; m. 46; c. 3. SOCIOLOGY. B.S, Ill. Inst. Tech, 49; fel. & M.A, Chicago, 50, Ph.D, 56. Asst. demog. & community inventory, Chicago, 49-50, res. assoc, 50-52, asst. prof. & res. assoc. SOCIOL, 55-57; asst. prof, Ill. Inst. Tech, 52-55; assoc. prof, PURDUE, 57-63, PROF, 63-, HEAD DEPT, 67-, asst. dean grad. sch, 66-67. Vis. prof, Indian Inst. Tech, Kanpur, 64-66. Consult, workshop community human rels, Chicago, 53-55; State Bd. Health, Ind, 58-; White House Conf. Aging, 60-61. U.S.A.A.F, 42-45. Fel. Sociol. Asn; fel. Geront. Soc; Pop. Asn. Gerontology; urbanism; city planning. Publ: State responsibility and community effort: the elderly in Indiana; The aging individual, In: Handbook of sociol gerontology; Social and psychological aspects of housing for the aged, In: Housing for the aging: research needs. Address: Dept. of Sociology, Purdue University, Lafayette, Ind. 47907.

BREESE, PROF. GERALD (WILLIAM), b. Horseheads, N.Y, June 4, 12; m. 37; c. 4. SOCIOLOGY. A.B, Ohio Wesleyan, 35; B.D, Yale, 38; Field fel, Chicago, 42, 46-47, Ph.D.(sociol), 47; summer, Southern California, 39. Asst. prof. sociol. & dean men, Pacific, 38-41; res. planner, Chicago Plan Cmn, 42; instr. urban sociol, Chicago, 47; secy, cmt. housing res, Soc. Sci. Res. Coun, 47-49; asst. prof. SOCIOL, PRINCETON, 49-51, assoc. prof, 51-59, PROF, 59-, dir. bur. urban res, 50-66. Fulbright lectr, American Univ, Cairo, 54-55. Coordinator, Delhi regional master plan consult. team, Ford Found, India, 57-58, consult, 59-62; vis. lectr, Natal, 63; vis. fel. & Fulbright travel grant, inst. adv. studies, Australian Nat. Univ, 66. Demobilization award, Soc. Sci.Res. Coun, 46-47. U.S.A, 42-45. Fel. Sociol. Asn; Pop. Asn; Inst. Planners. Structure and growth of urban areas; central business districts; journey to work and related daytime population; urbanization in newly developing countries. Publ: Daytime population of the central business district of Chicago, Univ. Chicago, 49; Urbanization in newly developing countries, Prentice-Hall, 66; co-auth, Impact of large installations on nearby areas, U.S. Navy, 66 & Sage Pub, 68. Address: Dept. of Sociology, Princeton University, Princeton, N.J. 08540.

BREGER, DR. LOUIS, b. Los Angeles, Calif, Nov. 20, 35; m. 57; c. 3. PSYCHOLOGY. B.A, California, Los Angeles, 57; M.A, Ohio State, 59, Ph.D. (psychol), 61. Asst. prof. psychol, Oregon, 61-66; STAFF PSYCHOLOGIST, LANGLEY PORTER NEUROPSYCHIAT. INST, 66- Psychol. Asn; Asn. Psychophysiol. Study Sleep. Personality; development; dream function. Publ: Co-auth, Critique and reformulation of learning theory approaches to psychotherapy and neurosis, Psychol. Bull, 65; auth, Function of dreams, J.

Abnorm. Psychol. Monogr, 67. Address: Langley Porter Neuropsychiatric Institute, 401 Parnassus, San Francisco, Calif. 94122.

BREGMAN, DR. ALBERT S(TANLEY), b. Toronto, Ont, Sept. 15, 36. PSYCHOLOGY. B.A, Toronto, 57, M.A, 59; Ph.D.(psychol), Yale, 63. Instr. PSYCHOL, Harvard, 63-65; ASST. PROF, McGILL, 65- Nat. Res. Coun. Can. res. grant, 65-; Defence Res. Bd. Can. res. grant, 68- Psychol. Asn. Human memory; concept formation; language and its relation to memory. Publ: Is recognition memory all-or-none?, J. Verbal Learning & Verbal Behav, 66; co-auth, All-or-none learning of attributes, J. Exp. Psychol, 66; auth, Distribution of practice and between-trials interference, Can. J. Psychol, 67. Address: Dept. of Psychology, McGill University, Montreal, Que, Can.

BREGMAN, DR. E(LSIE) O(SCHRIN), b. Newark, N.J, Nov. 30, 96; m. 19; c. 2. PSYCHOLOGY. A.B, Columbia, 18, Ph.D.(psychol), 22. Psychologist, Guardian Life Ins. Co, New York, 18-19; R.H. Macy & Co, 19-21; res. asst, div. psychol, inst. ed. res. Teachers Col, Columbia, 22-27; asst. dir, Child Study Asn. Am, 27-29; Nat. Res. Coun. fel, 29-30; instr, Teachers Col, Columbia, 31, res. assoc, div. psychol, inst. ed. res, 31-34; Progressive Ed. Asn, 35; CONSULT, 35- Assoc, Psychol. Corp, N.Y, 24-25, asst. secy, 25-34. Trustee, James McKeen Cattell Fund, 42-, secy-treas, 50-62. Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn. Mental measurement and test construction; human learning; counseling and guidance. Publ: Co-auth, Measurement of intelligence; Adult learning; Prediction of vocational success. Address: 425 Riverside Dr, New York, N.Y. 10025.

BREGMAN, MORTON HOWARD, b. Toronto, Ont, Oct. 5, 26; nat; m. 51; c. 2. GUIDANCE. B.A, Buffalo, 49; M.A, Columbia, 49. Voc. rehab. counsr, Inst. Crippled & Disabled, 57-58, coordinator arthritis proj, 58-59, chief case coordinator, 59-61; community rehab. coordinator, rehab. center, univ. hosp, Syracuse, 61-64; COORDINATOR PRFNL. SERV, VOC. REHAB. CENTER, 64- Instr, Pittsburgh, 67- U.S.A, 54-56. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn. Factors influencing the self-concept of the physically disabled and developing methodology for integration of community services for effective rehabilitation efforts. Publ: The utilization of support personnel in rehabilitation counseling, Nat. Rehab. Counseling Asn. Bull, 12/66. Address: 506 Parkview Dr, Pittsburgh, Pa. 15222.

BREHM, DR. CARL T. JR, b. Rockwell City, Iowa, Feb. 9, 25; m. 48; c. 2. ECONOMICS. B.A, Drake, 49, M.A, 51; Ph.D.(econ), Indiana, 58. Jr. financial economist, Fed. Res. Bank Cleveland, 53-55; instr. ECON, Mich. State, 55-58, asst. prof, 58-63; assoc. prof, KENYON COL, 63-68, PROF, 68-; CHMN. DEPT, 65- Summers, vis. lectr, San Francisco State Col, 60, lectr, North. Calif. Coun. Econ. Ed, 60; GLCA faculty intern, President's Coun. Econ. Adv, 64. U.S.A, 43-46. Econ. Asn; Int. Peace Res. Soc. Industrial organization, government and business; general economic theory; money, credit and banking; Regional and urban planning; housing; welfare programs. Publ: The residential construction industry, In: The structure of American industry, Macmillan, 61; co-auth, The demand for general assistance payments, Am. Econ. Rev, 12/64. Address: Dept. of Economics, Kenyon College, Gambier, Ohio 43022.

BREHM, PROF. JACK W(ILLIAMS), b. Iowa, Jan. 16, 28; m. 54. SOCIAL PSYCHOLOGY. A.B, Harvard, 52; Ph.D.(psychol), Minnesota, 55. Asst. social psychol, Yale, 55-57, asst. prof, 57-58; DUKE, 58-62, assoc. prof. PSYCHOL, 62-65, PROF, 65- U.S.N, 46-48. Psychol Asn. Communication in formal and informal organizations; group processes; cognitive theory. Publ: Co-auth, Explorations in cognitive dissonance, Wiley, 62; auth, A theory of psychological reactance, Academic, 66. Address: Dept. of Psychology, Duke University, Durham, N.C. 27706.

BREHM, WILLIAM ALLEN, b. Bisbee, Ariz, Feb. 1, 21; m. 44; c. 7. ECONOMICS, MARKETING. B.S, Arizona, 42; Harvard, 43, M.B.A, 47. Mkt. analyst, indust. mkt. res. dept, KIMBERLY-CLARK CORP, 47-53, sr. mkt. analyst, 53-57, economist, 57-58, off. chmn. bd, 58-67, CORP. ECONOMIST, 67- Tech. consult, Cmt. Domestic Econ. Bus. Adv. Coun, D.C, 62-64. Mem. bus. econ. cmt, Am. Paper Inst, 66- U.S.A, 43-46, Capt. Econ. Asn; Asn. Bus. Econ. General economic and sales forecasting; graphic arts industry and grocery products industry; managerial economics of United States and Canadian paper and allied products industry; financial and investment analysis. Address: 521 E. Franklin Ave, Neenah, Wis. 54956.

BREIDENBACH, S(AMUEL) H(EAVRIN), b. Hawesville, Ky, Oct. 26, 98; m. 20, 55; c. 2. GOVERNMENT, LAW. LL.B, George Washington, 25, B.S, 44. From asst. chief to chief sect, U.S. Burs. Internal Revenue & Prohibition, 21-30; head returns div, U.S. Bur. Narcotics, 30-61; CONSULT, 61- Tech. adv. & consult, U.S. Mil. Govt, Germany & Austria, 45-46. Mem, U.S. Supreme Court Bar. U.S.A, 18. Acad. Polit. Sci. Administration, international trade, manufacture, distribution and uses and abuses of narcotic drugs. Address: 5647 Seventh St. N, Arlington, Va. 22205.

BREIER, PROF. F(REDERICK) A(RTHUR), b. Vienna, Austria, May 16, 19; nat; m. 60; c. 1. ECONOMICS. A.B, Rochester, 42; Ph.D, California, 48. Asst. ECON, California, 42-45; from instr. to asst. prof, SAN FRANCISCO, 45-56, assoc. prof, 56-62, PROF, 62- Lectr, inst. indust. rels, California, Berkeley & Los Angeles, 48-; prof, inst. European studies, Univ. Turin, 62-63; vis. lectr, Free Univ. Berlin, 65. Consult, World Trade Center Authority, State of Calif, 60-67. Mem. export expansion coun, U.S. Dept. Commerce, 63-; adv. ways & means cmt. of assembly, State of Calif, 64. Econ. Asn; Arbit. Asn; Econ. Hist. Soc; fel. Royal Econ. Soc. Western European exchange control and convertibility; United States foreign trade; economy of Germany; exports and imports of State of California. Publ: Development of United States attitudes and policies toward Western European exchange control; Liberalization of Intra-European trade. Address: 3249 Jackson St, San Francisco, Calif. 94118.

BREIMYER, PROF. HAROLD F(REDERICK), b. Ft. Recovery, Ohio, Apr. 13, 14; m. 41; c. 1. AGRICULTURAL ECONOMICS. B.S, Ohio State, 34, M.S, 35; Ph.D, American Univ, 60. Econ. analyst, agr. adjust. admin, U.S. Dept. Agr, 36-39, bur. agr. econ, 39-42, 46-54, agr. mkt. serv, 54-59, coun. econ. adv, 59-61, agr. mkt. serv, 61-65, consumer & mkt. sevr, 65-66; PROF. AGR. ECON, MISSOURI, 67- Superior serv. award, U.S. Dept. Agr, 54. U.S.N.R, 42-45, Lt. Comdr. Agr. Econ. Asn.(award, 54, 57, 62, pres, 68). Farm commodity outlook analysis; livestock prices and marketing; farm price policy. Publ: Individual freedom and the economic organization of agriculture, Univ. Illinois, 65; Demand and prices for meat, U.S. Dept. Agr, 61. Address: 1616 Princeton Dr, Columbia, Mo. 65201.

BREISH, DR. JOHN D(ILLENBECK), b. Syracuse, N.Y, Apr. 22, 17; m. 41; c. 4. CLINICAL PSYCHOLOGY. B.S, Syracuse, 39, M.A, 51, Ph.D.(psychol), 52; S.T.B, Westminster Theol. Sem, 42. Staff psychologist, Vet. Admin. Hosp, Chillicothe, Ohio, 52, chief clin. psychologist, Vet. Admin. Regional Off, Syracuse, N.Y, 53-60; psychologist, Rome Bd. Ed, N.Y, 60-61; CLIN. PSYCHOLOGIST PEDIAT, MARY IMOGENE BASSETT HOSP, 61-U.S.N.R, 43-46, Lt. Psychological diagnosis; psychotherapy; scientific study of religion; psychoneurological learning disorders. Publ: Comparative study of the relationship between punitiveness and headache using a group of migraine patients and a control group. Address: Mary Imogene Bassett Hospital, Atwell Rd, Cooperstown, N.Y. 13326.

BRENT, PROF. WILLIAM, b. New Orleans, La, Feb. 13, 33. ECONOMICS. B.A, Texas, 55, M.A, 56; univ. fel, Oklahoma, 56-57; Ford Found. fel, Mich. State, 60-61, Ph.D.(econ), 61. Asst. ECON, Texas, 55-56; instr, Mich. State, 57-60, lectr, 61; asst. prof, La. State, 61-64, ASSOC. PROF, 64-65; VIRGINIA, 65- Vis. prof, Colorado, summer, 66. Econ. Asn. Price theory; history of economic thought; economic theory and methodology. Publ: Co-ed, Readings in microeconomics, Holt, 68; The wages fund controversy revisited, Can. J. Econ. & Polit. Sci, 11/67; Public-goods interaction in Stackelberg geometry, West. Econ. J, 3/68. Address: Dept. of Economics, University of Virginia, Charlottesville, Va. 22903.

BREKKE, PROF. ARNOLD, Econ, Soc. Sci, see 10th ed, Phys. & Biol. Vols. Latest known address: Route 1, Hanska, Minn. 56041.

BRELAND, KELLER B, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

BRELAND, MARIAN K, b. Minneapolis, Minn, Dec. 2, 20; m. 41; c. 3. PSYCHOLOGY. B.A, Minnesota, 41. Asst. biostatist, Minnesota, 41-42, instr, 45, statistician, journalism res. bur, 44-45; asst. animal behav, Gen. Mills, Inc, 42-44; bus. mgr, ANIMAL BEHAV. ENTERPRISES, INC, 47-65, PRES. & GEN. MGR, 65- Psychol. Asn; Animal learning; psychological theory; behavioral engineering. Publ: Co-auth, Animal behavior, Macmillan, 66; Field of applied animal psychology & Misbehavior of organisms, Am. Psychol. Address: Route 6, Hot Springs, Ark. 71901.

BREMER, DR. C. DANIEL, b. Haarlem, Netherlands, Oct. 2, 96; nat; m. 27; c. 1. ECONOMICS. Ph.D, Columbia, 35; George Washington, 42-43. Area specialist, For. Econ. Admin, 43-44; intel. specialist, U.S. Dept. State & U.S. Army Occup, Germany, 45-46; area specialist, Far East & Southeast Asia, 47-53; reconstruct. officer & econ. adv. to Minister Commerce & Indust, Repub. of Korea, UN-Korea Reconstruct. Agency, 53-55; RES. & WRITING, 55- AAAS; Econ. Asn; Asn. Asian Studies; Korea Soc. Far East economics; Korean language, conversation and grammar. Publ: American bank failures; American water resources. Address: 2316 37th St. N.W, Washington, D.C. 20007.

BREMNER, DR. FREDERICK JOHN, b. Detroit, Mich, June 30, 36; m. 58; c. 2. PSYCHOLOGY. B.S, Wheaton Col.(Ill), 58; Nat. Defense fel, Massachusetts, 60-62, M.S, 61, Ph.D.(psychol), 62. Teacher, high sch, Mass, 58-59; res. asst, Massachusetts, 59-62; scientist, Link Div, Gen. Precision, Inc, 63; prof. physiol. psychol. & coordinator, neuropsychol. summer inst, Calif. State Col. Los Angeles, 64-65; ASST. PROF. PSYCHOL, TRINITY (TEX), 65- Nat. Inst. Ment. Health res. grant, brain res. inst, sch. med, California, Los Angeles, 64-65; scholar, 64-65. Psychol. Asn. Publ: Co-auth, A combined manipulation reinforcement arrangement, 62 & A method for rapid conditioning of stable avoidance bar-pressing behavior, 63, J. Exp. Anal. Behav; auth, Hippocampal activity during avoidance behavior in the rat, J. Comp. Physiol. Psychol, 64. Address: Dept. of Psychology, College of Arts & Sciences, Trinity University, San Antonio, Tex. 78212.

BREMNER, PROF. ROBERT H(AMLETT), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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BRENER, DR. JASPER M, b. Durban, S.Africa, Aug. 15, 38; m. 61; c. 2. PSYCHOLOGY. B.A, Witwatersrand, 59; Ph.D.(psychol), London, 64. Res. fel. PSYCHOL, London, 63-65; ASST. PROF, TENNESSEE, 65- Wellcome assoc, Royal Soc. Med, 62-65. Psychol. Asn. Psychophysiology; learning; cardiovascular conditioning. Publ: Heart rate control under conditions of augmented sensory feedback, 66 & Paced respiration and heart rate control, 67, Psychophysiology; Heart rate, In: Manual of Psychophysiological Methods, North Holland, 66. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37916.

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Planning Bd, 67- U.S.A, 43-46, 1st Lt. Fel. Psychol. Asn. Psychotherapy; creativity; problem solving; counseling and supervision. Address: Veterans Administration Hospital, Hines, Ill. 60141.

BRENMAN, DR. MARGARET (GIBSON), b. Denver, Colo, Jan. 14, 18; m. 40; c. 2. PSYCHOLOGY. B A, Brooklyn Col, 38; M.A, Columbia, 39; Syracuse, 39-40; fel, Kansas, 41-42, Ph.D.(psychol), 42. Res. assoc, Menninger Clin, 41-42, jr. psychologist, Menninger Found, 42-43, sr. psychologist, 43-45, asst. head psychol. div, 45-46, dir, 46-48; SR. STAFF MEM, AUSTEN RIGGS CENTER, INC, 48- Res. grant, U.S. Pub. Health Serv. Psychol. Asn. Psychoanalysis; hypnosis and psychotherapy; creativity. Address: Austen Riggs Center, Inc, Main St, Stockbridge, Mass. 01262.

BRENNAN, DEAN CHARLES WILFRID, b. Erith, Eng, Oct. 7, 09; U.S. citizen; m. 52; c. 2. INDUSTRIAL ENGINEERING & ADMINISTRATION. B.S, Alabama, 33, M.B.A, 53. Engr, Gulf States Paper Corp, Ala, 39-48; instr. indust. eng, Alabama, 48-50, asst. dean, Col. Eng, 50-52; assoc. prof. wage admin, Ga. Inst. Tech, 52-55; LEHIGH, 55-58, assoc. dean, col. eng, 58-63, DEAN STUDENTS, 63- An analysis of industrial pensions; wage analysis survey and advisor to city of Bethlehem, Pennsylvania; arbitration of wage disputes between the city of Bethlehem and city firemen and policemen. Publ: Wage administration, Irwin, 59 & 63; Job evaluation and personnel rating, ICS, 62. Address: Lehigh University, Bethlehem, Pa. 18015.

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BRENNAN, PROF. MICHAEL J(OSEPH), b. Chicago, Ill, Aug. 29, 28; m. 54; c. 3. ECONOMICS. B.S.C, DePaul, 52; M.A, Chicago, 54, Ph.D, 56; hon. M.A, Brown, 60. Instr. ECON, BROWN, 56-57, asst. prof, 57-60, assoc. prof, 60-64, PROF, 64-, DEAN GRAD. SCH, 66- Danforth Found. teaching fel, 58-61; Ford Found. faculty res. fel, 59-60. Consult, U.S. Dept. Agr, 57; Butler Health Center, 58-59. U.S.A, 46-48. Econ. Asn; Economet. Soc. Quantitative methods applied to price theory and national income analysis; social welfare; economic policy. Publ: Preface to econometrics; Theory of economic statics, Prentice-Hall, 65; co-auth, The economics of age, Norton, 67. Address: Dept. of Economics, Brown University, Providence, R.I. 02912.

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BRENNER, DR. MICHAEL, EDWARD, Opers. Res, Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BRENT, PROF. ROBERT A(RTHUR), b. New York, N.Y, Dec. 11, 20; m. 48. INTERNATIONAL RELATIONS. A.B, Gettysburg Col, 43; A.M, Virginia, 47, Ph.D, 50. Instr. hist. & int. rels, Miss. State Col, 49-51, asst. prof, 51-53, assoc. prof. hist. & govt. & dean of students, Wofford Col, 53-56, prof, 56-58; assoc. prof. HIST. & GOVT, SOUTHERN MISSISSIPPI, 58-60, PROF, 60- Fulbright lectr, Philippines, 65-66. Publ: Mr. Jefferson of Virginia: renaissance gentleman in America, U.S. Info. Serv, 66; Nicholas Philip Trist: biography of a disobedient diplomat. Address: Dept. of History & Government, University of Southern Mississippi, Hattiesburg, Miss. 39401.

BRENT, DR. SANDOR B, b. New York, N.Y, Nov. 13, 32; m. 60; c. 2. PSYCHOLOGY. B.A, Washington (St. Louis), 54; U.S. Pub. Health Serv. fels, Clark, 58-60 & 60-61, M.A, 61, U.S. Pub. Health Serv. fel, 61-62, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, WAYNE STATE, 62-67, ASSOC. PROF, 67- Res. grants, Nat. Sci. Found, 63-65, 68-70, Off. Econ. Opportunity-Job Corps, 66-67, Nat. Inst. Ment. Health, summer 67. AAAS; Psychol. Asn. Relationship between language and thinking from the developmental point of view; empirical research and general theoretical questions. Publ: Organizational factors in learning and remembering, Am. J. Psychol, 65; co-auth, Tests of joint montonicity in r-way factorial designs, J. Am. Statist. Asn, 68 & Understanding connectives, J. Verbal Learning & Verbal Behavior, 68. Address: Dept. of Psychology, Wayne State University, Detroit, Mich. 48202.

BRERETON, GEORGE H(AROLD), Polit. Sci, Econ, see 10th ed, Soc. & Behav. Vols.

BRESNAHAN, DR. JEAN L(OUISE), b. Holyoke, Mass, Sept. 22, 35. PSYCHOLOGY. A.B, Smith Col, 57; M.A, Houston, 64; Ph.D.(psychol), Emory, 66. Vis. asst. prof, PSYCHOL. & TEACHER ED, EMORY, 66-67, ASST. PROF, 67- Psychology of learning; statistics; education. Publ: Co-auth, A general equation and technique for the exact partitioning of chi-square contingency tables, Psychol. Bull, 66: 252-262 & Dummy trials, novel and Pavlovian-trained stimuli: their effect upon instrumental and consummatory response relationships, J. Comp. Physiol. Psychol, 61: 480-483. Address: Dept. of Psychology, Emory University, Atlanta, Ga. 30322.

BRESNAHAN, MAURICE F(RANCIS), Statist, see 10th ed, Soc. & Behav. Vols.

BRESSLER, PROF. MARVIN, b. New York, N.Y, Apr. 10, 23; m. 44; c. 2. SOCIOLOGY. Soc. Sci. Res. Coun. fel, Pennsylvania, 50, Ph.D.(sociol), 52. Asst. prof. sociol, Pennsylvania, 52-58; assoc. prof, N.Y. Univ, 58-61, prof. sociol. & chmn. dept. ed. sociol, 61-63; PROF. SOCIOL, PRINCETON, 63- Mem. rev. panel, behav. sci. training cmt, Gen. Inst. Med. Sci, Nat. Insts. Health, 65- U.S.A, 43-46. Sociol. Asn. Sociological theory; sociology of knowledge; stratification; education and national goals. Publ: Indian students on an American campus; Tax supported medical-institutional care for the needy and medically needy of Pennsylvania; co-auth, Quality and equality in education, U.S. Off. Ed, 66. Address: Dept. of Sociology, Princeton University, Princeton, N.J. 08540.

BRESSLER, PROF. RAYMOND G(EORGE), JR, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

BRESWICK, DR. WILLIAM N, b. North Braddock, Pa, Aug. 9, 19; m. 42; c. 2. MANAGEMENT SCIENCE. B.S, Carnegie Inst. Tech, 42; M.B.A, Pennsylvania, 47; Ph.D.(bus. admin), Texas, 53. Indust. engr, West. Elec. Co, N.C, 47; instr. econ, Duke, 47-48; mkt, Texas, 48-51, lectr, 52-53; sr. economist, Southwest Res. Inst, 53-54; Stanford Res. Inst, 54-60; mgr. mgt. anal, Lockheed Missiles & Space Co, 60-64; dir. planning, URS Corp, Inc, 64-65; sr. economist, Stanford Res. Inst, 65-67; MGT. & ECON. SPECIALIST, LEO A. DALY CO, 67- Mem. U.S. del, German Debt Cmn, Eng, 51-52. U.S.N.R, 42-46, Comdr. Opers. Res. Soc; Soc. Pub. Admin; Asn. Mgt. Consults; Int. Soc. Gen. Semantics; World Future Soc. Management systems, especially planning-programming-budgeting systems. Publ: Co-auth, Economic impact of research and development expenditures by U.S. Dept. of Defense, 2/66, auth, programming system for United States foreign affairs, 5/66 & co-auth, Development of Cam Ranh Bay, Vietnam, 9/66, Stanford Res. Inst. Address: Leo A. Daly Co, 650 California St, San Francisco, Calif. 94108.

BRETERNITZ, PROF. DAVID A(LAN), Anthrop, see 10th ed, Soc. & Behav. Vols.

BRETON, PROF. ALBERT, Econ, see 10th ed, Soc. & Behav. Vols.

BRETON, DR. RAYMOND, b. Montmartre, Sask, Aug. 19, 31; m. 55; c. 3. SOCIOLOGY. B.A, Manitoba, 52; M.A, Chicago, 58; Samuel Fels fel, univ. fel. & Ph.D, Hopkins, 61. Res. assoc. sociol, Soc. Res. Group, 57-61; ASST. PROF, McGill, 61-64; HOPKINS, 64- Asst. prof, Montreal, 57-59. Sociol. Asn; Can. Sociol. & Anthrop. Asn. Race and ethnicity as factors in social organization, with particular reference to immigration and nationalism; study of organizations, especially work organizations. Publ: Co-auth, Group formation among immigrants, Can. J. Econ. & Polit. Sci; Institutional completeness of ethnic communities and the personal relations of immigrants, Am. J. Sociol, 64; Career decisions of Canadian youth, Can. Dept. Manpower and immigration, 67. Address: Dept. of Social Relations, Johns Hopkins University, Baltimore, Md. 21218.

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COL, 63- Can. Army, 42-45; British Army, 45-47, Capt. Polit. Sci. Asn; Asn. Asian Studies; Soc. Sci. Asn. Thailand. Far Eastern government and politics; international relations; Southeast Asia. Publ: Government of Okayama prefecture. Address: Dept. of Government, Monmouth College, Monmouth, Ill. 61462.

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BREWER, PROF. JOHN WITHROW, b. Boston, Mass, Mar. 26, 04. POLITICAL SCIENCE. A.B, Princeton, 26, A.M, 30, Ph.D, 32. Instr, George Washington, 33-34; Dartmouth Col, 34-35; asst. prof. hist. & govt, Conn. State Col, 35-38, assoc. prof, 38-39; int. law, GEORGE WASHINGTON, 39-46, PROF. INT. LAW, 46-, chmn. dept. polit. sci, 46-63. Summer, vis. prof, Southern California, 50. U.S.A, 42-46, Col. Polit. Sci. Asn; Am. Soc. Int. Law. Law of war, neutrality and arbitration; problems raised by general treaty of Inter-American arbitration. Address: Dept. of Political Science, George Washington University, Washington, D.C. 20006.

BREWER, DR. JOSEPH E(VERETT), b. Joplin, Mo, May 31, 14; m. 36; c. 2. PSYCHOLOGY. A.B, Kansas, 36, A.M, 37; Ph.D.(psychol), Illinois, 40. Asst. psychol, Illinois, 38-40, Gen. Ed. Bd. fel, 40-41; psychologist, Louisville Ment. Hyg. Clin, 41-46; asst. dir, WICHITA GUID. CENTER, 46-48, acting dir, 48-49, DIR, 49- Instr, med. sch, Louisville, 42-46; exten. div, Indiana, 43-46. Fel. Psychol. Asn. Personality studies by observational methods; parent-child relationships; community mental health. Address: Wichita Guidance Center, 3422 E. Douglas St, Wichita, Kans. 67208.

BREWER, DR. JUNE HARDEN, b. Austin, Tex, Sept. 5, 25. EDUCATIONAL PSYCHOLOGY. A.B, Huston-Tillotson Col, 44; South. Ed. Found. fel, Texas, Austin, 57-58, United Negro Col. Fund fel, 59-60, Ph.D.(ed. psychol), 63. Instr. Eng, Morgan State Col, 46; teacher, high sch, Tex, 50-52; assoc. prof. Eng, HUSTON-TILLOTSON COL, 46-63, chmn. dept. commun, 64-66, ASSOC. PROF. ED. PSYCHOL, 67- Vis. lectr, Macalester Col, 66-67. Psychol. Asn. Ecological study of psychological environment of college and personality of students; language acquisition of culturally disadvantaged youth. Publ: Contrib, Pattern and purpose in writing, Holt, 63. Address: 2006 Leona St, Austin, Tex. 78722.

BREWER, DR. MICHAEL F(RASER), b. New York, N.Y, May 9, 29; m. 55; c. 4. AGRICULTURAL ECONOMICS. B.S, Yale, 53; M.S, Michigan, 55; Ph.D, California, 59. Asst. prof. agr. econ, California, Berkeley, 59-62; staff economist, Coun. Econ. Adv, Exec. Off. President, 62-63; prof. econ. & dir. center, natural resources policy studies, George Washington, 65-66; V.PRES, RESOURCES FOR THE FUTURE INC, 67- Consult, Ford Found, 64; U.S. Dept. Interior, 65-67. U.S.A, 49-52, Sgt. Econ. Asn; Farm Econ. Asn. Economics of public policies, especially natural resource development and use of land and water; public policies for natural resources development and management. Publ: Local governmental assessment: its impact on land and water use, Land Econ; Public pricing of natural resources, J. Farm Econ; Water pricing and allocation with particular reference to California irrigation districts. Address: Resources for the Future, Inc, 1755 Massachusetts Ave. N.W, Washington, D.C. 20036.

BREWSTER, DR. JOHN M(ONROE), Econ, see 10th ed, Soc. & Behav. Vols, deceased 65.

BREWSTER, PROF. MAURICE R(AY), SR, b. Lincoln, Ark, May 18, 02; m. 32; c. 2. ECONOMICS. B.S, Mo. Valley Col, 26; M.B.A, Northwestern, 28. Asst. prof. mkt, Drake, 28-29; econ, Ga. Inst. Tech, 29-33; mkt, Emory, 33-37; assoc. prof. econ. & soc. sci, GA. INST. TECH, 37-41, PROF. INDUST. MGT, 46-, dir. sch, 55-60. Economist, Nat. Housing Agency, 41-46. Consult, Atlanta Metrop. Planning Cmn, 48- Market research; housing market analysis; community population patterns. Publ: Social and economic pattern of Atlanta, Georgia; Real property inventory; How to make and interpret locational studies of the housing market. Address: Dept. of Industrial Management, Georgia Institute of Technology, Atlanta, Ga. 30332.

BREWSTER, PROF. WILLIAM, JR, b. Plymouth, Mass, Sept. 18, 05; m. 37; c. 5. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Harvard, 27; J.D, Stetson, 49, A.M, 50. From instr. to asst. prof. bus. admin. & econ, J.B. Stetson, 47-50; assoc. prof. Tex. West. Col, 53-55; instr, col. bus. admin, Florida, 56-57; ASST. PROF. BUS. ADMIN, FLA. STATE, 58- Mem, Am. Col. Life Underwriters. Econ. Asn. Real estate; insurance; business law. Address: 2626 Thomasville Rd, Tallahassee, Fla. 32303.

BREYER, PROF. RALPH F(REDERICK), b. Baltimore, Md, Oct. 7, 97; m. MARKETING. B.S, Pennsylvania, 20, A.M, 23, Ph.D, 25. Instr. MKT, PENNSYLVANIA, 20-24, asst. prof, 24-37, assoc. prof, 38-46, PROF, 46- U.S.A, 17-18, 2nd Lt. Econ. Asn; Mkt. Asn.(res. ed, J. Am. Mkt. Asn, 41-47). Distribution costing; retailing; channel efficiency. Publ: The marketing institution; Quantitative systemic analysis and control; Bulk and package handling costs, Am. Mgt. Asn. Address: Wharton School of Finance & Commerce, University of Pennsylvania, Philadelphia, Pa. 19104.

BRICE, PROF. NORMAN B(RACKEN), b. Tama, Iowa, July 2, 18; m. 49. COUNSELING, GUIDANCE. B.A, Cornell, 47; M.A, Chicago, 49, Ph.D.(personnel, guid), 58. Asst. res. head univ. housing, Chicago, 49-50, asst. psy-

chol, counseling center, 51-53, counseling serv. coordinator, 52-54; counsr, Mich. State, 54-57; PROF. PSYCHOL, CHICO STATE COL, 57-, DIR. COUNSELING, ADV. & TESTING, 67-, assoc. dean students, 57-65, coordinator of counseling, 65-67. U.S.A, 42-46, Sgt. Psychol. Asn; Personnel & Guidance Asn; Col. Personnel Asn. Practice, teaching and theory of counseling and psychotherapy. Address: Dept. of Psychology, Chico State College, Chico, Calif. 95926.

BRICKLEY, DEAN DONALD PAUL, b. Johnstown, Pa, Jan. 10, 20; m. 44; c. 2. SOCIOLOGY, GUIDANCE. A.B, Eastern Nazarene Col, 41, Th.B, 42; M.Ed, Pittsburgh, 46, Ph.D, 57. Clergy, 42-57; PROF. SOCIOL, EASTERN NAZARENE COL, 57-, DIR. GUID. & COUNSELING, 60-, DEAN STUDENTS, 67- Fel, Wisconsin, 60; Nat. Defense Ed. Act res. grant, 66. Summer dir, Mass. Asn. Adult Blind, 61; consult, City of Quincy, Mass, 67. Sociol. Asn; Personnel & Guid. Asn. Clinical cases; juvenile court; administration of criminal justice. Publ: Man of the morning. Address: Student Personnel Officer, Eastern Nazarene College, Wollaston Park, Quincy, Mass. 02170.

BRICKLIN, DR. BARRY, b. Philadelphia, Pa, Dec. 4, 33; m. 57; c. 2. PSYCHOLOGY. B.A, Temple, 55, M.A, 57, Ph.D.(psychol), 59. Psychologist, Jefferson Med. Col, 57-59, instr. PSYCHOL, 59-64; ASST. PROF. HAHNEMANN MED. COL, 64- Consult, Walter Reed Army Hosp. Res. Center, E.I. du Pont de Nemours & Co. & Nat. Res. Coun, 62-63; Columbia Broadcasting Syst. Inc. WCAU radio, Pa, 65- Psychol. Asn. Psychopathology and psychological treatment of children and adults. Publ: Co-auth, The hand test, C.C. Thomas, 62 & Bright child—poor grades, Delacorte, 67. Address: 1 Forsythia Dr. N, Levittown, Pa. 19056.

BRICKMAN, PROF. WILLIAM W(OLFGANG), Hist. of Ed, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRICKNER, DR. ARTHUR, b. Zurich, Switz, Mar. 22, 17; U.S. citizen. ECONOMICS. M.S. Columbia, 41, Ph.D, 50. Mem. bus. res, Metrop. Life Inst. Co, N.Y, 41-44; res. econ. analyst, BANKERS TRUST CO, 45-53, assoc. economist, 53-62, V.PRES, 62- Mem. econ. adv. bd, Secy. Commerce, 67- Econ. Asn; Statist. Asn; Finance Asn; Acad. Polit. Sci. Business conditions, credit markets, interest rates and the United States balance of payments; forecasting techniques; institutional investment policies. Address: 280 Park Ave, New York, N.Y. 10017.

BRICTSON, DR. ROBERT CASPER, b. Chicago, Ill, Apr. 2, 27. SOCIOLOGY. B.A, Colorado, 50, M.A, 53; Ph.D.(sociol), California, Los Angeles, 65. Intel. officer, Cent. Intel. Agency, 53-54; dir. advertising & sales, Carco Prod. Co, 54; probtn. officer, Los Angeles County Probtn. Dept, 54-57; asst. soc. scientist, Rand Corp, 57-58; head personnel planning & training, SYST. DEVELOP. CORP, 58-61, human factors scientist, 61-63, proj. dir. opers. res, 63-65, sr. prog-proj. head civil emergency systs, 65-67, ASSOC. HEAD SOC. PLANNING RES, 67- Lectr. & acting asst. prof, California, Los Angeles, 63-68; mem. workshop crises res, Univ. Pittsburgh, 66; civil defense regional confs, sch. pub. admin, Univ. Southern California, 66; disaster res. center, Ohio State Univ, 67. Mem. task force civil defense training & ed, Off. Civil Defense, 64. U.S.N.A.F, 45-47. AAAS; Sociol. Asn; Human Factors Soc. Systems analysis; man-machine systems; human factors; collective and group behavior; crime and delinquency; social change; emergency operations and disaster; organization and training; simulation and gaming; survey and market research. Publ: Performance under threat in defense & conflict, Univ. California, 65; Crisis by appointment, 6/66 & Some thoughts on social implications of computers & privacy, 9/67, SDC Mag. Address: 2500 Colorado Ave, Santa Monica, Calif. 90406.

BRIDENSTINE, PROF. MERWYN G(RAYDON), b. Johnson Co, Iowa, May 1, 02; m. 25; c. 2. ECONOMICS. B.S, Iowa, 24, A.M, 27, Ph.D, 29. Instr. econ, Butler, 25-27, from asst. prof. to prof. econ. & bus. admin, 29-42; asst. dean col. bus. admin, Butler, 46-48; assoc. prof. econ, ARKANSAS, 48-49, PROF. ECON. & GEN. BUS, 49-, ASSOC. DIR. BUR. BUS. & ECON. RES, 52-, ASSOC. DEAN, COL. BUS. ADMIN, 57-66, 67-, acting dean, 66-67. Lectr, exten. div, Indiana, 26-27, 29-31. U.S.A.A.F, 42-46. Econ. Asn; Mkt. Asn. Economics of railway consolidation; industrial development. Address: College of Business Administration, University of Arkansas, Fayetteville, Ark. 72701.

BRIDGE, DR. FRANKLIN M(ORTON), b. Columbia City, Ind, July 13, 15; m. 45; c. 3. POLITICAL SCIENCE. A.B, Indiana, 37; Ph.D, Northwestern, 51. Asst. prof. polit. sci, Arkansas, 49-54, assoc. prof, 54-59; assoc. prof. polit. sci. & asst. dir, bur. govt. res, Colorado, 61-62; DIR. PROG. STUDIES & INFO. SERV, STATE OFF. LOCAL GOVT, N.Y, 62- Proj. officer, Ohio Legis. Serv. Cmn, 56-57, 59-61. U.S.A.F, 41-45, Res, 45-66, Lt. Col. Polit. Sci. Asn. American government and politics; state legislatures and legislation; public policy making. Publ: Metropolitan areas; developing field of public policy, Ohio State Law J; Capital punishment; Metro Denver: mile-high government, Bur. Govt. Res. & Serv, Univ. Colorado, 63. Address: 2056 Morrow Ave, Schenectady, N.Y. 12309.

BRIDGER, CLYDE A(RTHUR), b. Cortland, N.Y, Apr. 24, 09; m. 36; c. 3. STATISTICS. A.B, Whitman Col, 31; Harvard, 37-38; M.S, Ore. State Col, 38; N.C. Inst. Statist, 46-47; Park scholar. from Utah to North Carolina & Washington (St. Louis); North Carolina, summer, 63. Asst. math, Ore. State Col, 32-34; statistician, State Planning Bd, Idaho, 36, State Dept. Pub. Health, 38-42; instr. math, N.C. State Col, 46-47; Utah, 42-46, 47-48; Washington (St. Louis), 48; dir, State Bur. Vital Statist, Mo, 48-57; CHIEF STATISTICIAN, STATE DEPT. PUB. HEALTH, ILL, 57- Statist. Asn; fel. Pub. Health Asn; Pop. Asn; Math. Asn. Quantitative spectrochemistry of cobalt; internal friction in solids; Idaho history and demography; computer programing; developing vital statistics laws; biometeorology. Publ: Counties of Idaho, Pac. Northwest Quart; Medical aspects of death reports, South. Med. J; co-auth, Spectrochemical determination of nickel in electrolytic cobalt using a current-regulated direct-current arc. Address: 542 W. Vine St, Springfield, Ill. 62704.

BRIDGER, DR. WAGNER H, b. New York, N.Y, Jan. 9, 28; m. 51; c. 3. PSYCHIATRY. B.A, N.Y. Univ, 46, M.D, 50. Res. fel. psychopharmacol, Pavlovian Lab, med. sch, Hopkins, 52-53; staff psychiatrist, William Beaumont Army Hosp, 53-54; resident psychiatrist, River Crest Sanatarium, N.Y, 54-55; ALBERT EINSTEIN COL. MED, 55-56, res. fel. PSYCHIAT, 56-57, res. instr, 57-58, instr, 58-60, asst. prof, 60-65, ASSOC. PROF. & DIR. RES, 65- U.S. Pub. Health Serv. sr. fel, Albert Einstein Col. Med, 57-58, mem. interdisciplinary prog, teaching cmt, 62-, exec. cmt, 65- U.S. Pub. Health Serv. ment. health career investr, 58-63 & res. career develop. award, 63- Assoc. vis. psychiat, Bronx Munic. Hosp, 65- Nat. Inst. Ment. Health res. scientist award, 68. U.S.A, 52-53. Fel. Psychiat. Asn; Pavlovian Soc. N.Am.(2nd v.pres, 67); Psychiat. Res. Soc.(secy-treas, 66-67); Group Adv. Psychiat; Psychosom. Soc. Application of experimental techniques to the understanding of cognitive development with specific reference to the role of language in thinking and the effects of hallucinogenic drugs. Publ: Contributions of conditioning principles to psychiatry, In: Pavlovian conditioning and American psychiatry, Group Adv. Psychiat, 64; co-auth, A comparison of behavioral ratings and heart rate measurements in human neonates, Psychosomatic Med, 3-4/65 & Deficiencies in verbal labeling in retarded readers, Am. J. Orthopsychiat, 10/66. Address: Dept. of Psychiatry, Albert Einstein College of Medicine, Yeshiva University, 1300 Morris Park Ave, Bronx, N.Y. 10461.

BRIDGES, DR. BENJAMIN, JR, b. Washington, D.C, May 21, 36; m. 60; c. 2. ECONOMICS. B.A, Duke, 58; Woodrow Wilson Found. fel, Hopkins, 58-59, univ. fels, 58-59 & 60-61, Danforth Found. fel, 58-62, H.B. Earhart Found. fel, 59-60, Brookings Inst. fel, 61-62, Ph.D.(econ), 62. Asst. prof. econ, Wisconsin, 62-65; RES. ECONOMIST, OFF. RES. & STATIST, SOC. SECURITY ADMIN, 65- Res. grants, Wis. Alumni Res. Found, 63 & Wis. Dept. Resource Develop, 64; lectr, Maryland, 65-66. Econ. Asn. Federal, state and local public finance; social welfare programs. Publ: Co-auth, Essays in fiscal federalism, Brookings, 65; auth, Industrial development incentives, Wis. Dept. Resource Develop, 65; Current redistributional effects of old-age income assurance programs, Old-age Income Assurance, Joint Econ. Cmt, 68. Address: 809 Grand View Dr, Alexandria, Va. 22305.

BRIDGES, DR. CECIL C(ALVERT), JR, b. Little Rock, Ark, Aug. 17, 25; m. 49. PSYCHOLOGY. B.A, Tulsa, 50, M.A, 51; Iowa, 52-53; Ph.D. (psychol), Texas, 58. Res. assoc. audiol, Northwestern, 56-57; res. evaluator, pub. schs, Okla, 57-59; asst. prof. PSYCHOL, Little Rock, 59-61; ASSOC. PROF, TEXAS CHRISTIAN, 61- U.S.A, 46-48. AAAS; Psychol. Asn; Acoustical Soc. Sensory processes; learning; motivation; tests and scales. Address: 2300 Sixth Ave, Ft. Worth, Tex. 76110.

BRIDGES, CLAUDE F(RIER), b. Locust Grove, Ga, Nov. 11, 09; m. 56; c. 1. PSYCHOLOGY. B.S, Florida, 33, M.A, 37; Ohio State, 39-42; N.Y. Univ, 48-53; Purdue, 58-62. Teacher & prin, pub. schs, Fla, 32-35, supv. prin, 37-39, teacher, high schs, 35-39; asst. psychol, Ohio State, 40-42, instr, 45-46; personnel measurements technician, Air Serv. Command, 42-44; chief personnel measurements br, Columbus Army Serv. Forces Depot, 44-45; test & measurement specialist, Off. Secy. of War, 46-47; asst. dir, div. test res. & serv, World Book Co, 47-54; consult, Turkish Ministry of Ed, 54-55; ed. res. adv, Int. Coop. Admin, Ethiopia, 56-58; chief test develop. br, Army Off. Personnel Opers, Enlisted Eval. Center, 58-65; CHIEF RES. DIV, U.S. MIL. ACAD, 65- Lectr, Miami (Ohio), 43-44; U.S. Dept. Agr. Grad. Sch, 46-47; Gazi Egitim Enstitusu, 54-55; Indianapolis campus, Purdue, 59-65; Orange County Community Col, 67- Consult, Bridges & Assocs, Psychol. Res. Consult, 60- Psychol. Asn; Psychomet. Soc; Ed. Res. Asn; Asn. Instnl. Res; Nat. Coun. Measurement in Ed. Test development and utilization; educational evaluation programs; development and utilization of special personnel measurement and statistical techniques; psychological research. Publ: Co-auth, Construction and analysis of achievement tests; auth, Method of estimating distribution of scores from coefficients of item difficulty, Abstract, Am. Psychologist; Educational diagnosis, Idea-Ethiopian Ed. J. Address: R.D. 1, Highland Mills, N.Y. 10930.

BRIDGES, PROF. J(AMES) W(INFRED), b. Cascumpec, P.E.I, Sept. 14, 85. PSYCHOLOGY. B.A, McGill, 11; A.M, Harvard, 12, fel, 12-13, Ph.D.(psychol), 15. Teacher, pub. schs, P.E.I, 03-08; asst. PSYCHOL, Harvard & intern, Psychopathic Hosp, Boston, 13-14; lectr, Alberta, 14-15; instr, Ohio State, 15-17, asst. prof, 17-21; psychologist, Surgeon Gen. Off, 17-19; Toronto, 21-22, assoc. prof, 22-24; med. faculty, McGill, 24-29, prof, 29-38; SIR GEORGE WILLIAMS, 40-45, sr. prof, DIV. SOC. SCI, 45-63, EMER. PROF, 63- Psychologist, Can. Nat. Cmt. Ment. Hyg, 24-30. Fel. AAAS; fel. Am. Psychol. Asn; Anthrop. Asn; fel. Can. Psychol. Asn.(hon. pres, 58-59, 63-64). Decision types; measuring mental ability; intelligence and social status. Publ: Psychology, normal and abnormal; Personality, many in one; Meaning and varieties of love. Address: Division of Social Science, Sir George Williams University, Montreal, Que, Can.

BRIDGMAN, PROF. C(HARLES) S(IMMONS), b. Rochester, N.Y, Jan. 24, 13; m. 38; c. 4. PSYCHOLOGY. A.B, Union Col.(N.Y), 34; M.S, Brown, 35; Ph.D.(psychol), Rochester, 38; B.S, Ohio State, 40. From instr. to assoc. prof. physiol. optics, Ohio State, 38-48; with spec. devices center, U.S. Navy, 48-50; PROF. PSYCHOL, UNIV. EXTEN. & CENTER SYST. UNITS, WISCONSIN, MADISON, 50- Fel. AAAS; fel. Psychol. Asn; fel. Optical Soc; fel. Acad. Optom. Vision; physiological optics; personnel selection; test theory. Address: Dept. of Psychology, University of Wisconsin, 432 N. Lake St, Madison, Wis. 53706.

BRIEDE, WILLIAM HENRY, b. Hamilton, Ohio, Jan. 29, 19; m. 41; c. 1. BUSINESS MANAGEMENT & ECONOMICS. B.S, Miami (Ohio), 41, M.S, 64; Harvard, 43. Anal. statistician to med. dir, Vet. Admin, 46-48; asst. chief, State Labor Statist. Div, Ohio, 48-49; anal. statistician, Comdr. Air Material Command, U.S. Dept. Air Force, 49-51, mgt. analyst, Wright Air Develop. Center, 51-63, mgt. adv. to dir. programming prod, hqs. Air Force Logistics Command, Wright-Patterson Air Force Base, 54-63; systs. analyst, inland mfg. div, Gen. Motors Corp, Ohio, 63-66; FINANCIAL SYSTS. CORP. MGR, KING SEELEY THERMOS CO, 66- U.S.A.A.F, 41-46, 1st Lt. Statist. Asn; Soc. Personnel Admin; Am. Inst. Mgt; Data Processing Mat. Asn; Syst. & Procedures Asn. Management controls; operations research; governmental procurement and budgeting; programming and control. Address: 2021 Medford Rd, Ann Arbor, Mich. 48104.

BRIEF, DR. RICHARD PAUL, b. Newark, N.J, Sept. 27, 33; m. 62; c. 1. ECONOMICS, STATISTICS. A.B, Dartmouth Col, 55, M.B.A, 58; Ph.D. (econ), Columbia, 64. Instr. STATIST, N.Y. UNIV, 61-64, asst. prof, 64-67, ASSOC. PROF, 67- Consult. alcoholic beverage control law, N.Y. State Moreland Cmn, 63-64; Tri-State Transportation Cmn, 64-66. U.S.A.F, 55-57, Capt. Econ. Asn; Statist. Asn; Am. Acct. Asn; Economet. Soc; Econ. Hist. Asn. Accounting and economic growth; financing mass transportation; youth employment; profit theory. Publ: Nineteenth century accounting error, J. Acct. Res, spring 65; Origin and evolution of nineteenth century asset-accounting, Bus. Hist. Rev, spring 66; Measuring shopping costs, J. Indust. Econ, 7/67. Address: School of Commerce, Washington Square, New York University, New York, N.Y. 10003.

BRIEFS, PROF. GOETZ A(NTHONY), b. Germany, Jan. 1, 89; nat; m. 19, 51; c. 5. ECONOMICS. Munich, 08-09; Bonn, 09-10; Ph.D.(econ), Freiburg, 12; hon. Dr, Munich, Berlin, Milan, St. Mary's Col, Georgetown & St. Gallen Inst. Commerce & Indust. Lectr, Freiburg, 13-21; prof. ECON, 23-26; Berlin, 26-34; vis. prof, Catholic Univ, 34-37; prof, GEORGETOWN, 37-62, EMER. PROF, 62- Emer. prof, Tech. Univ, Berlin, 48-; hon. prof, Freiburg, 61- Consult, German Govt, 15-19; Pentagon & Off. Strategic Servs, 44. Econ. Asn; German Soc. Sociol. Sociology. Publ: Laissez-Faire Pluralism, Duncker & Humbolt, Berlin, 66; Mitbestimmung? (codetermination?), Seewald, Stuttgart, 67; Trade unionism yesterday and today, Knapp, Frankfurt, 68. Address: 1413 44th St. N.W, Washington, D.C. 20007.

BRIEFS, PROF. HENRY W(INFRIED), b. Freiburg, Germany, Jan. 14, 22; nat; m. 50; c. 5. ECONOMICS. B.S.F.S, Georgetown, 43, Ph.D.(econ), 54. Ford Found. Fund Adv. Ed. faculty fel, Chicago, 53-54; asst. prof. ECON, De Paul, 54-55; GEORGETOWN, 55-59, ASSOC. PROF, 59-, CHMN. DEPT, 65- U.S.A, 43-45. Econ. Asn. Industrial organization; monetary, fiscal and international public policy. Publ: Three views of method in economics, 60 & Regaining balance in a high employment economy, 67, Georgetown Univ; co-ed, NATO in quest of cohesion, Praeger, 65. Address: Dept. of Economics, Georgetown University, Washington, D.C. 20007.

BRIEN, DR. LOIS ANN, b. Cleveland, Ohio, Sept. 24, 28; div. SPEECH PATHOLOGY, PSYCHOLOGY. B.F.A, Ohio, 50; M.A, Alabama, 53; Auburn, 54-55; Ph.D.(speech path), Iowa, 59. Speech therapist, Ohio Pub. Schs, Youngstown, 50-51; instr. speech, Auburn, 53-55; res. assoc. speech path. & audiol, Iowa, 55-59; clin. instr, col. med, Baylor, 59-64; Nat. Insts. Health fel, CASE WESTERN RESERVE, 64-65, ASST. PROF. SPEECH PATH. & AUDIOL, 65-; RES. ASSOC, CLEVELAND HEARING & SPEECH CENTER, 65- Speech diagnostician, Houston Speech & Hearing Center, 59-64; summer instr, Alabama, 54. Consult. dent. ed, sch. dent, Case Western Reserve, 66- Speech & Hearing Asn; Psychol. Asn. Psycholinguistic research to develop a test of childrens' phonological competency; development of self-instructional sequences for first and second year dental students; verbal conditioning; experiential group methods for professional training. Publ: Co-auth, Phonetic elements and perception of nasality, J. Speech & Hearing Res, 12/61 & Referral of aphasic patients, Tex. State J. Med, 2/62; auth, The behaviorist's approach to learning, Ohio J. Speech & Hearing, 10/66. Address: Dept. of Speech Communication, Case Western Reserve University, Cleveland, Ohio 44106.

BRIEN, DR. RICHARD H(ERMAN), b. Houston, Tex, Aug. 20, 39; m. 67. MARKETING, INTERNATIONAL BUSINESS. B.S, Denver, 61; Nat. Defense Ed. Act fel. & Ph.D.(bus. admin), Texas, 66. ASST. PROF. MKT, HOUSTON, 64-, DIR. GRAD. STUDIES BUS, 67-, ASSOC. DEAN COL. BUS. ADMIN, 68- Am. Asn. Advertising agencies fel, summer 66; Am. Coun. Ed. acad. admin. intern, 68-69. Acad. Advert; Mkt. Asn. Consumer behavior and information processing; role of marketing in economic development of Latin America. Publ: Co-auth, Marketing information systems: a new era in marketing research, Houghton, 68; auth, Petroleum refining in Costa Rica: a study in industrial development, Bur. Bus. Res, Univ. Texas, 68; The myth of marketing in banking, Bus. Horizons, spring 67. Address: College of Business Administration, University of Houston, Houston, Tex. 77004.

BRIÈRE, DR. EUGÈNE JOHN, Psycholing, Lang. Testing, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

BRIERLY, DR. WILLIAM B(IGGAR), b. Worcester, Mass, Feb. 13, 12; m. 46; c. 5. GEOGRAPHY. A.B, Clark, 34, A.M, 36, Barton fel, 38-39, Ph.D. (med. geog), 42; fel, George Washington, 36-38. Lectr. polit. geog, adult ed. center, Mus. Natural Hist, Worcester, Mass, 40-42, curator anthrop, 41-48; geogr. & chief West. European map res, Army Map Serv, 46-55, PHYS. GEOGR, QM. RES. & DEVELOP. CENTER, U.S. ARMY LABS, 55- Geogr, interim res. & intel. serv, U.S. Dept. State, Wash, D.C, 45-46; lectr, Maryland, 48-55; from asst. dir. to dir. surv. incidence & geog. distribution diseases of world, grants, Pan-Am. Inst. Geog. & Hist, Carnegie Corp, George Washington & Clark Univs, 36-42. Mem. bot. surv. of Maine, Clark, 31, leader, bio-geol. exped, Hudson's Bay Territory, Can, 32; geologist & plant geogr, Bowdoin-MacMillan Arctic Exped, 34. U.S.A, 42-45. Asn. Am. Geog. Physical geography; cartography; geo-medicine. Publ: Special use maps; Geographic factors influencing the geographic distribution of malaria; Environmental criteria for design of military material. Address: U.S. Army Labs, Natick, Mass. 01760.

BRIGANTE, DR. THOMAS ROBERT, b. Buffalo, N.Y, May 31, 30; m. 51; c. 2. PSYCHOLOGY. B.A, Buffalo, 51; M.A, Boston, 53, Ph.D, 56; S.M. Hyg, Harvard, 61. Staff psychologist, Brockton Vet. Admin. Hosp, Mass, 56-60; Nat. Insts. Health fel, sch. pub. health, Harvard, 60-61, res. assoc. psychol, 61-62; dir. psychol. clin. & counseling center, CLAREMONT COLS, 62-67, ASSOC. PROF. PSYCHOL, 67- Instr, Boston State Col, 58-; vis. assoc. prof, California, Los Angeles, 63. Consult, State of Mass, 61- U.S.A, 49-50, Res, 50-54. Psychotherapy; prevention of emotional disorders; interaction between intrapsychic and community forces in personality development and change; community psychology; social change. Publ: Fromm's marketing orientation and the values of the counselor; Clinical and counseling psychologists perceptions of their specialties; Opportunities for community mental health training within the residential college campus context, Community Ment. Health J, spring 65. Address: 357 W. Tenth St, Claremont, Calif. 91711.

BRIGDEN, DR. ROBERT L(OCKWOOD), b. Newark, N.J, May 9, 08; m. 43. CLINICAL PSYCHOLOGY. A.B, Col. Emporia, 30; A.M, Kansas, 31, Ph.D. (psychol), 34. Prof. psychol, Friends, 35-36; consult. psychologist, Wichita Child Guid. Center, 35-39; Kans. Children's Inst, 39-42; dir. child guid, Santa Barbara County Schs, Calif, 46-47; clin. psychologist, Devereux Ranch Sch, 47-49, dir, 51-58; chief clin. psychol, Ft. Lyon Vet. Admin. Hosp, 49-51; private practice, 58- Consult, Ventura County Probation Dept, 58- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N, 42-46. Fel. Psychol. Asn. Psychotherapy, diagnosis; test development. Address: 22 W. Micheltorena St, Santa Barbara, Calif. 93104.

BRIGGS, DEAN CHANNING M(ATTHEW), b. Fitchburg, Mass, Jan. 24, 15; m. 43; c. 4. SOCIOLOGY. B.S, George Williams Col, 48; M.A, Chicago, 52, Danforth fel, 56-57; Bethel Training Lab, 58. Dir, Hyde Park Y.M.C.A, Chicago, Ill, 48-49; from instr. to assoc. prof. sociol. acting dir. group work & recreation div, George Williams Col, 49-56; assoc. gen. secy, Y.M.C.A, San Francisco, Calif, 58-61; prof. sociol. & anthrop, Chabot Col, 61-62; DEAN STUDENTS, PORTLAND STATE COL, 62- Vis. prof, McCormick Sem. & Univ. Indiana; summers, prog. dir, 4-H Mem. Camp, Ill, 50-51; recreation dir, City of Crete, Ill, 52; prog. dir, Col. Camp, Williams Bay, Wis, 53-56. Consult, Community Res. Assocs. Teams, Ga, 53, N.Y, 56, Ohio, N.C. & Ind, 57 & Mich, 65. Sociol. Asn; Soc. Study Social Probs; Adult Ed. Asn. Junior college dropout; decision making in industry. Publ: George Williams College, 1925-50; From credibility gap to futility fugue, NASPA, J. Asn. Deans & Adminstr. Student Affairs, 4/68. Address: Portland State College, P.O. Box 751, Portland, Ore. 97207.

BRIGGS, DR. CHARI HERENDEEN, b. Flushing, N.Y, Nov. 29, 38; m. 60; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, William Smith Col, 60; Ford Found. fel. & M.A.T, Hopkins, 61; U.S. Pub. Health Serv. trainee & Ph.D.(ed. psychol), Minnesota, 66. Sch. psychologist, Livingston County Bd. Coop. Ed. Serv, N.Y, 61-63; instr. ED. PSYCHOL, MINNESOTA, MINNEAPOLIS, 66, ASST. PROF, 67- Assoc. Psychol. Asn. School psychology; cognitive style in children; children of schizophrenic mothers. Address: 2907 Benjamin St. N.E, Minneapolis, Minn. 55418.

BRIGGS, PROF. GEORGE E(DWARD), b. Columbus, Ohio, May 27, 26; m. 53; c. 3. PSYCHOLOGY. B.A, Ohio State, 49, M.A, 50; Ph.D.(psychol), Wisconsin, 53. Nat. Sci. Found. fel, Northwestern, 53-54; res. assoc, lab. aviation psychol, OHIO STATE, 54-58, dir. lab, 58-64, PROF. PSYCHOL, UNIV, 58-, assoc. v.pres. res, 63-66. Mem. cmt. human factors & psychophysiol, Nat. Acad. Sci-Nat. Res. Coun, 67-69. AAAS; Psychol. Asn; Psychonomic Soc; Human Factors Soc. Psychology of learning; mathematical statistics; engineering psychology; human learning and memory; human performance. Address: Dept. of Psychology, Ohio State University, Columbus, Ohio 43210.

BRIGGS, PROF. HERBERT W(HITTAKER), b. Wilmington, Del, May 14, 00; m. 37; c. 4. INTERNATIONAL LAW. A.B, West Virginia, 21; Ph.D, Hopkins, 25. Instr. polit. sci, Hopkins, 25-26; Cmn. Relief Belgium Ed. Found. fel, Brussels, 26-27; mem. res. staff, For. Policy Asn, N.Y, 27-28; acting assoc. prof. polit. sci, Oberlin Col, 28-29; asst. prof. govt, CORNELL, 29-37, PROF. INT. LAW, 37- Lectr, Istanbul & Ankara, Turkey, 47; Fulbright prof, Copenhagen, 52-53; lectr, Oslo, 53; Naval War Col, 55. Mem, int. law cmn, UN, 62-66. U.S.A, 18. Am. Soc. Int. Law (ed, jour, 55-62). International law and organization. Publ: Law of nations. Address: Dept. of Government, Cornell University, Ithaca, N.Y. 14850.

BRIGGS, PROF. L(ELAND) L(AWRENCE), b. Byron, Minn, Apr. 24, 93. ACCOUNTING. A.B, South Dakota, 23, A.M, 24; Noyes scholar, Northwestern, 26-27, M.B.A, 27; Harvard, 30-31. Prof. commerce, McPherson Col, 24-26; asst. acct, Northwestern, 26-27; asst. prof. econ, Vermont, 27-29, assoc. prof, 29-51, PROF, 51-58; BUS. ADMIN, CHAMPLAIN COL, 59- Vis. lectr, grad. sch. bus. admin, Harvard, 31-32. Ed. & publisher, Acct. Digest, 35- Am. Acct. Asn; Nat. Asn. Acct. Corporation law; legal aspects of dividends. Publ: Contrib, J. Accountancy, Acct. Rev, Am. Acct. Address: Dept. of Business Administration, Champlain College, Burlington, Vt. 05401.

BRIGGS, DR. LESLIE J(OHN), b. St. Joseph, Mo, Oct. 18, 19; m. 41. PSYCHOLOGY. B.S, Ft. Hays Kans. State Col, 41, M.S, 42; Ph.D.(psychol), Ohio State, 48. Asst, Ohio State, 46-48; asst. prof. psychol, Hawaii, 48-51; res. psychologist & chief training equip. sect, maintenance lab, U.S. Dept. Air Force, Lowry Air Force Base, Colo, 51-57; res. scientist, Hughes Aircraft Co, 57-59; dir, Palo Alto Off, Am. Inst. Res, 59-67; v.pres, Dymedia, Inc, 67-68; INDEPENDENT CONSULT. TRAINING, ED. & RES, 68- U.S.A, 42-46. AAAS; Ed. Res. Asn; Psychol. Asn. Design of multi-media instruction; sequencing of instruction. Publ: Two self-instructional devices: Psychol. Reports; Programed instruction in science and mathematics, Rev. Ed. Res, 65; Design of multi-media instruction, Am. Inst. Res, 67. Address: 2435 Tasso St, Palo Alto, Calif. 94301.

BRIGGS, PROF. L(LOYD) CABOT, b. Boston, Mass, June 27, 09; m. 35, 48; c. 1. ANTHROPOLOGY. A.B, Harvard, 31, A.M, 38, Ph.D.(anthrop), 52; dipl, Oxford, 32. Res. assoc. N.AFRICAN ANTHROP, HARVARD, 53-67, RES. ASSOC, PEABODY MUS, 67-; PROF. ANTHROP, CONSULT. CHMN. DIV. BEHAV. SCI, FRANKLIN PIERCE COL, 67- Anthrop. Asn; Asn. Phys. Anthrop; Geog. Soc; Royal Anthrop. Inst. Gt. Brit. & Ireland. Physical anthropology and ecology of the Sahara Desert; prehistoric archaeology and ethnology of North Africa, including the Sahara Desert. Publ: Stone age races of Northwest Africa; Living races of the Sahara Desert; Tribes of the Sahara. Address: Stoddard Rd, Hancock, N.H. 03449.

BRIGGS, PROF. PETER F, b. Madison, Wis, Oct. 6, 28; m; c. 2. REHABILITATION PSYCHOLOGY, PHYSICAL MEDICINE. B.A, Reed Col, 46; Ph.D, Minnesota, 55. Instr. psychol, Wash. State Col, 55-56; asst. prof. PHYS. MED. & REHAB. PSYCHOL, MED. SCH, MINNESOTA, 57-62, assoc. prof, 62-66, PROF, 66- Consult, Vet. Admin. Hosps, St. Cloud & Minneapolis, 62-; assessment div, Peace Corps, 63-64; Minneapolis Rehab. Center, 63-64; Kenny Rehab. Inst, 64-; Youth Conservation Cmn, Lino Lakes Diag. Center, 64-; Family & Children's Serv, 65- Psychol. Asn. Cognitive assessment; delinquency; psychological diagnosis. Publ: Co-auth, Personality and environmental factors in the development of delinquency, Psychol.

Monogr, 73: 1-47, Prediction, In: Juvenile delinquency: theory and research, Van Nostrand, 65 & Old wine in new skin: grouping Wechsler subtests into new scales, J. Consult. Psychol, 31: 499-506. Address: Box 279, University of Minnesota Medical School, Minneapolis, Minn. 55455.

BRIGGS, PROF. ROYAL J(AY), b. Chicago, Ill, Mar. 24, 04; m. 34. ECONOMICS. B.S, Knox Col, 31; M.A, Illinois, 33; Ph.D.(econ), Missouri, 49. Instr. econ, Kemper Jr. Col, 33-40; asst. prof. agr. econ, S.Dak. State Col, 41-42; prof. econ. & chmn. soc. sci. div, Cent. Mo. State Col, 46-49; from assoc. prof. to PROF. ECON, WIS. STATE, SUPERIOR, 49- Instr, Missouri, 40-41, 45-46. U.S.N.R, 42-45. Econ. Asn; Finance Asn; Am. Acct. Asn. Public finance; investments; money and banking. Publ: Jackson City assessment, ratio survey; Survey of Missouri income tax history, 1861-1935, Nat. Tax Asn. Bull. Address: Dept. of Economics, Wisconsin State University, Superior, Wis. 54880.

BRIGGS, DR. VERNON MASON, JR, b. Washington, D.C, June 29, 37. ECONOMICS. B.S, Maryland, 59; M.A, Mich. State, 60, Ph.D.(econ), 65. ASST. PROF. ECON, TEXAS, 64- Res. dir, Pub. Adv. Cmt. Admin. Training Progs, 67-68. Econ. Asn; Indust. Rels. Res. Asn. Strike subsidies; Negro participation in apprenticeship programs; administration of federally assisted training programs. Publ: Co-auth, The Negro and apprenticeship, Johns Hopkins, 67; auth, The mutual aid pact of the airlines industry, Indust. & Labor Rels. Rev, 10/65; The strike insurance plan of the railroad industry, Indust. Rels, 5/67. Address: Dept. of Economics, University of Texas, Austin, Tex. 78712.

BRIGHOUSE, PROF. GILBERT, b. Hornsea, Eng, May 29, 06; nat; m. 28, 51; c. 6. INDUSTRIAL PSYCHOLOGY. Ph.B, Chicago, 30, M.S, 34; B.A.S, George Williams Col, 32; Ph.D.(psychol), Iowa, 36. Instr. PSYCHOL, Chicago Jr. Col, 32-34; res. assoc, Iowa, 34-36; instr, Illinois, 36-38; assoc. prof, OCCIDENTAL COL, 38-41, PROF, 41-, chmn. dept, 38-54. Lectr, Calif. Inst. Tech, 42-47, res. assoc, 45-46. Consult. indust. psychologist, S.Calif. Edison Co, S.Calif. Gas Co. & others. Mem, U.S. Dept. Commerce Mission Indust. Psychol, Germany, 46-47. Psychologist, induction sta, U.S. Army, Calif, 42. Fel. Psychol. Asn. Industrial psychology; management development. Publ: The physically handicapped in industry. Address: Dept. of Psychology, Occidental College, Los Angeles, Calif. 90041.

BRIGHT, DR. HAROLD F(REDERICK), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BRIGHT, DR. MARGARET, b. Bentonville, Ark, Nov. 19, 18. SOCIOLOGY. A.B, California, 41; M.A, Missouri, 45; Ph.D.(rural sociol), Wisconsin, 50. Asst. proj. dir. coop. proj, soc. sci. res. center, Puerto Rico, 50-51; acting assoc. prof. rural sociol, Cornell, 51-52; soc. affairs officer, pop. div, UN, 52-54; res. assoc. sociol, bur. appl. soc. res, Columbia, 54-57; UN tech. asst, Demog. Training & Res. Center, India, 57-59; asst. prof. pub. health admin, SCH. HYG. & PUB. HEALTH, HOPKINS, 59-63, ASSOC. PROF. CHRONIC DISEASES, 63- Sociol. Asn; Rural Sociol. Soc; Pop. Asn; Pub. Health Asn. Demography; medical sociology. Address: Dept. of Chronic Diseases, Johns Hopkins University, Baltimore, Md. 21205.

BRIGHT, PROF. WILLIAM O(LIVER), Anthrop. Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang. Ling. & Philol.

BRIGHTBILL, DR. ROGER FRANKLIN, b. Windber, Pa, May 23, 34. PSYCHOLOGY. A.B, Washington & Jefferson Col, 55; Ph.D.(psychol), Harvard, 62. Instr. PSYCHOL, NORTHEASTERN, 61-62, ASST. PROF, 62- Co-prin. investr, 61-62 & res. assoc, 62-, Nat. Inst. Ment. Health res. grants, Northeastern. AAAS; Psychol. Asn. Tachistoscopic word recognition; visual search; visual masking; effects of hypnotic suggestion on perceptual thresholds. Publ: Co-auth, The effect of expectancy for hypnosis on prehypnotic performance, J. Personality, 64; Modification of the word-recognition threshold by hypnotic suggestion and monetary reward, Perceptual & Motor Skills, 64; Word recognition with masking, Perception & Psychophysics, 66. Address: Dept. of Psychology, Northeastern University, Boston, Mass. 02115.

BRILHART, PROF. JOHN K, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BRILL, DANIEL H(ERBERT), b. New York, N.Y, Apr. 23, 18; m. 40; c. 2. ECONOMICS. B.A, N.Y. Univ, 36; M.A, Columbia, 37. Economist, bur. labor statist, U.S. Dept. Labor, 37-39, 40-43, 46-47; dir. flow funds proj, BD. GOVERNORS, FED. RESERVE SYST, 47-55, chief bus. finance & capital mkt. sect, 55-59, assoc. adv, 60-62, adv. res. div, 62-64, DIR. RES. DIV, 64-, SR. ADV, 67- Rockefeller pub. serv. award, 54. U.S.A, 43-46. Econ. Asn; Statist. Asn; Finance Asn. Monetary policy and theory; investment and security markets; social accounting. Publ: Flow of funds in the United States; Postwar structure of financial claims, Study Income & Wealth; Formation of savings, Orgn. Econ. Coop. & Develop, 68. Address: 10414 Brookmoor Court, Silver Spring, Md. 20901.

BRILLIANT, DR. PATRICIA J(EAN), b. Ontario, Ore, Feb. 22, 41. CLINICAL PSYCHOLOGY. B.A, Washington (St. Louis), 61, U.S. Pub. Health Serv. fel, 62-66, M.A, 62, Ph.D.(clin. psychol), 66. Clin. res. asst. psychol, West Haven Vet. Admin. Hosp, Conn, 62-63; intern med. psychol, sch. med, Washington (St. Louis), 65-66; STAFF PSYCHOLOGIST, MALCOLM BLISS MENT. HEALTH CENTER, 66- Lectr, St. Louis, 66-; instr, sch. med, Washington (St. Louis), 66- Mem, Inst. Rational Living. Psychol. Asn. Rational-emotive psychotherapy with individuals and families; assessment techniques, especially tests for organicity; personality theory. Publ: Co-auth, Relationships between performance on three tests for organicity and selected patient variables, J. Consult. Psychol, 63 & Psychopathology and attitudes toward mental illness, Arch. Gen. Psychiat, 64; auth, Stimulus generalization in psychiatric patients as a function of anxiety level—ego strength, sex, and time of testing, J. Abnorm. Psychol, (in press). Address: Malcolm Bliss Mental Health Center, 1420 Grattan St, St. Louis, Mo. 63104.

BRILLINGER, DR. DAVID ROSS, b. Toronto, Ont, Oct. 27, 37; m. 60. STATISTICS. B.A, Toronto, 59; Woodrow Wilson fel. & M.A, Princeton, 60, Bell Tel. Labs. fel. & Ph.D.(math), 61. Mem. res. tech. group statist, London Sch. Econ, 61-62; mem. tech. staff, Bell Tel. Labs, 62-64; READER, LONDON SCH. ECON, 64- Soc. Sci. Res. Coun. res. fel, 61-62; lectr, Princeton, 62-64; vis. assoc. prof, California, Berkeley, 67-68. R.C.N.R, 55-59, Lt. Inst. Math. Statist; Am. Statist. Asn; Math. Asn; Math. Soc; Royal Statist. Soc. Statistical inference; analysis of time series; sample surveys. Publ: An introduction to polyspectra, Ann. Math. Statist, 65; Application of the jackknife to sample surveys, Commentary, 66; Bounded polymeasures and associated translation commutative polynomial operators, Proc. Am. Math. Soc, 67. Address: London School of Economics, London WC 2, Eng.

BRIM, DR. ORVILLE G(ILBERT), JR, b. Elmira, N.Y, Apr. 7, 23; m. 44; c. 4. SOCIOLOGY. B.A, Yale, 47, M.A, 49, Ph.D.(sociol), 51. Instr. sociol, Wisconsin, 52-53, asst. prof, 53-55; proj. dir, RUSSELL SAGE FOUND, 55-57, sociologist, 57-64, asst. secy, 59-64, PRES, 64- Mem, ment. health training cmt, Nat. Inst. Ment. Health, 59-62; chmn. bd. dirs, Automation Eng. Lab, Inc, 59-67; mem. cmt. socialization & soc. struct, Soc. Sci. Res. Coun, 60-66; environ. panel, U.S. Off. Ed, 62-64; drug res. bd, Nat. Acad, 64-66; chmn. cmn. soc. sci, Nat. Sci. Found, 68- U.S.A.A.F, 42-46, 1st Lt. Sociol. Asn; Soc. Res. Child Develop; Psychol. Asn. Personality and social organization. Publ: Co-auth, Socialization after childhood: two essays, Wiley, 67; Sociology and the field of education & Education for child rearing, Russell Sage. Address: Russell Sage Foundation, 230 Park Ave, New York, N.Y. 10017.

BRIMHALL, DR. DEAN R, b. Provo, Utah, Dec. 11, 86; m. 17; c. 1. PSYCHOLOGY. A.B, Brigham Young, 13; A.M, Columbia, 16, Ph.D.(psychol), 20. Prof. psychol, Brigham Young, 16-22; secy-treas, Psychol. Corp, 22-26; bus. & private res, Utah Pac. Airways, Inc, 26-34; dir, Utah State Planning Bd, 35; adv. on labor rel, Works Prog. Admin, 35-38; asst. to chmn, Civil Aeronaut. Admin, 38-40, dir. res, 40-52; RETIRED. Asst, Columbia, 17-18. Co-ed, Am. Men Sci, 21. AAAS; fel. Psychol. Asn. Relation of Physical qualifications to aircraft pilot performance; consistency of voting behavior of congressmen; ancient Indian rock paintings. Address: 732 Elizabeth St, Salt Lake City, Utah 84102.

BRIMKMAN, DR. RICHARD L, b. Flushing, N.Y, Dec. 5, 29; m. 54; c. 1. ECONOMICS. B.S, Rutgers, 53, A.B, 54, Ph.D.(econ), 65; M.A, Tufts, 55; Hopkins, 57-58. Asst. prof. ECON, PORTLAND STATE COL, 61-65, ASSOC. PROF, 66- Sig.C, U.S.A, 47-49. Econ. Asn; Econ. Hist. Asn. International economics; economic development and history. Address: Dept. of Economics, Portland State College, P.O. Box 751, Portland, Ore. 97207.

BRIMMER, DR. ANDREW FELTON, b. Newellton, La, Sept. 13, 26; m. 53; c. 1. ECONOMICS. B.A, Washington (Seattle), 50, M.A, 51; Whitney fel, 50-51; Fulbright grant, India, 51-52; univ. fel, Mass. Inst. Tech, 53-54; univ. fels, Harvard, 52-55, Ph.D, 57. Economist, Fed. Reserve Bank N.Y, 55-58; asst. prof. econ, Mich. State, 58-61; finance, Pennsylvania, 61-66; MEM. BD. GOV, FED. RESERVE SYST, 66- Dep. Asst. Secy. Commerce, 64-65; Asst. Secy. Econ. Affairs, 65-66. U.S.A, 45-46. Econ. Asn. Monetary economics. Publ: Life insurance companies in the capital markets, Mich. State Univ, 62; Setting of entrepreneurship in India, Quart. J. Econ, 11/55; Price measurements and the determination of monetary policy, Proc. Am. Statist. Asn, 5/68. Address: Federal Reserve Board, Constitution Ave, Between 20th & 21st N.W, Washington, D.C. 20551.

BRINBERG, DR. HERBERT R(APHAEL), b. New York, N.Y, Jan. 27, 26; m. 45; c. 2. ECONOMICS. A.B, Cornell, 47; M.S, Columbia, 48; Ph.D, N.Y. Univ, 55. Consult. & sr. economist, Boni, Watkins, Mounteer, Inc, 52-55; asst. dir. res, Licensed Beverage Industs, Inc, 55-56; from mgr. bus. res. & anal. to V.PRES. BUS. PLANNING, AM. CAN CO, 56- Adj. asst. prof. econ, Hofstra Col, 53-60; N.Y. Univ, 60-63. U.S.A.A.F, 44-45. Econ. Asn; Statist. Asn; Economet. Soc. Industrial economics; business analysis and forecasting; money and banking. Publ: Co-auth, Economics of the work week. Address: American Can Co, 100 Park Ave, New York, N.Y. 10017.

BRINEGAR, DR. CLAUDE S(TOUT), b. Rockport, Calif, Dec. 16, 26; m. 50; c. 3. ECONOMICS. A.B, Stanford, 50, M.S, 51, Ph.D, 54. Asst, food res. inst, Stanford, 50-53; mgr, econ. dept, UNION OIL CO. CALIF, 53-65, v.pres, econ. & corp. planning, 65, PRES, PURE OIL DIV, 65- Econ. consult, Emporium-Capwell Corp, 50-53. U.S.A.A.F, 43-45. Statist. Asn. Economic studies of business operations; applications of statistical methods; business conditions and management. Publ: Oil shale and bituminous sand, Sci. Monthly; Statistical estimation of the gasoline octane number requirement of new model automobiles, Technomet; National fuels policy—the controversy and the data, J. Petrol. Tech, 9/62. Address: Pure Oil Division, Union Oil Co. of California, 200 E. Golf Rd, Palatine, Ill. 60067.

BRINEGAR, PROF. GEORGE K(ENNETH), b. Bloomfield, Iowa, Jan. 5, 18; m. 48; c. 4. AGRICULTURAL ECONOMICS. B.Ed, Ill. State Norm. Univ, 40; A.M, Chicago, 49, Ph.D, 52. Asst. prof. AGR. ECON, Connecticut, 48-53, assoc. prof, 53-56, PROF, 56-60; ILLINOIS, URBANA, 60-, ASSOC. DEAN COL. AGR, 66-, DIR. INT. PROGS. & INT. AGR. PROGS, 67- Res. assoc, Nat. Bur. Econ. Res, 51-52, 54- Mem. cmt. agr. econ, Soc. Sci. Res. Coun, 56-; Cmn. Money & Credit, 59-61. U.S.A, 42-46. Econ. Asn; Agr. Econ. Asn. Theory; government finance. Publ: Structure of the capital market for agriculture and an evaluation of its components relative to current and future needs; Acceptable rates of change; Encouraging fundamental research in agricultural economics, J. Farm Econ. Address: Dept. of Agricultural Economics & Farm Management, University of Illinois, Urbana, Ill. 61801.

BRINGMANN, DR. WOLFGANG G, b. Darmstadt, Germany, June 13, 33; U.S. citizen; m. 58; c. 2. CLINICAL PSYCHOLOGY. B.S, Pedagogical Inst. Darmstadt, Germany, 58; M.A, Alabama, 59, Ph.D.(clin. psychol), 64. Teacher, pub. sch, Germany, 56-57; lab. asst. psychol, Alabama, 57-59; intern clin. psychol, Dept. Agencies, N.J, 59-60; instr. psychol, Alabama, Birmingham, 62-64; asst. prof. Alabama, Huntsville, 64-66; ASSOC. PROF. CLIN. PSYCHOL, Mississippi, 66-67; WINDSOR, 67- Consult. psychologist, Dept. Ment. Health, Ala, 61-66; psychol. consult, Lutheran Church Am, 64-; consult, Headstart Training Prog, Ala, 65; Alcoholism Cmn, Miss, 66-67. Psychol. Asn; Interam. Soc. Psychol. Psychology of the aged; induction of

emotion by motion pictures; cognitive styles; behavior therapy; programmed report writing; professional problems; history of clinical psychology; semantic conditioning. Publ: Awareness in the experimental induction of anxiety, 19:1188 & Re-examination of ethnocentrism and problem solving rigidity, 20:1069-1070, Psychol. Reports; Test of the chronic-acute hypothesis in semantic GSR conditioning, Psychonomic Sci, 7:349-350. Address: Dept. of Psychology, University of Windsor, Windsor, Ont, Can.

BRINK, DR. E(DWARD) L(OREN), b. Binghamton, N.Y, Sept. 27, 18; m. 45; c. 3. MARKETING, ECONOMIC STATISTICS. B.S, Pennsylvania, 40, A.M, 48, grant, 48-50, Ph.D.(econ), 54. Instr. econ. & soc. statist, PENNSYLVANIA, 45-51, MKT, 53-54, asst. prof, WHARTON GRAD. DIV, 54-57, ASSOC. PROF, 57-, ASSOC. DIR, MGT. SCI. CENTER, WHARTON SCH, 62-, INST. COOP. RES, 56-, res. investr, 53-56. Lectr, Charles Morris Price Sch, 47-51; Fulbright vis. prof, King's Col, Durham, 58-59. Res. consult, 46-51; sr. consult, Pub. Opinion Learning Labs, Ind, 60- U.S.N, 41-45, 51-53, Res, 45-51, 53-, Comdr. Statist. Asn; Mkt. Asn; Opers. Res. Soc. Am; Inst. Mgt. Sci; Oper. Res. Soc, U.K. Analytical tools or statistical methodology as opposed to abstract theory; sales and marketing management; planning and evaluation administration. Publ: Co-auth, Fundamentals of promotion; auth, Marketing intelligence and business decisions; Functional relationship of marketing research to the operation of a competitive economy, In: Revista internazionale di scienze. Address: 225 Nippon St, Philadelphia, Pa. 19119.

BRINKLEY, DR. GEORGE A(RNOLD), b. Wilmington, N.C, Apr. 20, 31; m. 59; c. 1. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B, Davidson Col, 53; M.A, Columbia, 55, cert, Russian Inst, 55, Ph.D.(int. rels), 64; Inter-Univ. Cmt. Travel Grants grant, Moscow State Univ, 62-63. Instr. govt, Columbia Col, 57-58; polit. sci, NOTRE DAME, 58-61, asst. prof, 61-66, ASSOC. PROF. INT. RELS, 66- Polit. Sci. Asn; Asn. Adv. Slavic Studies. International relations with specialization in Soviet government and foreign policy. Publ: The volunteer army and allied intervention in south Russia, 1917-1921, Univ. Notre Dame, 66. Address: Dept. of Government, University of Notre Dame, Notre Dame, Ind. 46556.

BRINKMAN, GABRIEL, O.F.M, b. Indianapolis, Ind, Dec. 3, 24. SOCIOLOGY. A.B, Quincy Col, 47, B.S, 52; M.A, Catholic Univ, 54, Ph.D, 57. Instr. sociol, Quincy Col, 53-54; philos, Our Lady of Angels Sem, 55-57; assoc. prof. sociol, QUINCY COL, 57-63, PRES, 63- Sociol. Asn; Soc. Study Social Probs; Acad. Polit. & Soc. Sci. Rehabilitation of prison inmates, with emphasis on the role of religion; social problems of adolescents; psychological and social factors in the genesis of conscience; moral theology. Publ: Social thought of John de Lugo; A Catholic approach to the philosophy of correction, J. Soc. Ther; Role of parents in the education of children, Proc. Franciscan Ed. Conf. Address: Quincy College, Quincy, Ill. 62301.

BRINKMAN, DR. LEONARD W, JR, b. La Crosse, Wis, Jan. 7, 33; m. 61; c. 2. GEOGRAPHY. B.Sc, Wisconsin, 54, M.Sc, 58, univ. fels, 59-61, Ph.D. (geog), 64. Lectr. GEOG, Melbourne, 63-67; ASSOC. PROF, TENNESSEE, 67- U.S.A, 54-57. Am. Geog. Soc; Asn. Am. Geog; Agr. Hist. Soc; Inst. Australian Geog. Historical geography of the United States, especially the development of agriculture and agricultural regions in the middle west in the nineteenth century. Publ: Co-auth, A correlation and regression analysis applied to rural farm population densities in the Great Plains, Ann. Asn. Am. Geog, 61. Address: Dept. of Geography, University of Tennessee, Knoxville, Tenn. 37916.

BRINKMANN, DR. ERWIN HENRY, b. Hoyleton, Ill, Nov. 4, 29; m. 56; c. 2. PSYCHOLOGY. B.S, Southern Illinois, 52, M.S, 57; Ph.D.(psychol), Michigan, 63. Teacher, high sch, Mich, 57-58; res. assoc. PSYCHOL, Michigan, 61-63; asst. prof, SOUTHERN ILLINOIS, 63-67, ASSOC. PROF. & CHMN. DEPT, 67- U.S.A.F, 52-56, 1st Lt. Psychol. Asn; Ed. Res. Asn; Nat. Soc. Study Ed. Investigation of variables involved in the instructional process, both in terms of learning processes and personality variables. Publ: A program in space perception, Univ. Michigan, 64; co-auth, Group influences on the individual in the classroom, Merrill-Palmer Quart, 7/63; auth, Programed instruction as a technique for improving spatial visualization, J. Appl. Psychol, 4/66. Address: Dept. of Psychology, Southern Illinois University, Edwardsville, Ill. 62025.

BRINSER, PROF. AYERS, Polit. Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

BRINTNALL, DR. ARTHUR K(ELLY), b. Valley City, Ohio, May 29, 14; m. 36; c. 3. PSYCHOLOGY. A.B, Denison, 35; Hopkins, 35-37; Ph.D.(psychol), California, Los Angeles, 39. Instr. psychol, California, Los Angeles, 39-40; assoc, Illinois, 40-41; dir. field res, Psychol. Corp, Ill, 41; asst. supvr. employ, Allis-Chalmers Mfg. Co, Wis, 41-43, mgr. labor rels, 43-47; asst. dir. indust. rels, Corning Glass Works, 47-55; chief mgt. develop. planning, Boeing Airplane Co, Wash, 55-56; spec. adv, B.F. Goodrich Co, 56-66; dean admin, AKRON, 66-67, dean grad. studies, 67-68, V.PRES. ACAD. AFFAIRS, 68- Psychol. Asn; Indust. Rels. Res. Asn. Marketing reorganization; personnel development. Address: University of Akron, Akron, Ohio 44304.

BRINTON, PROF. CRANE, European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRINTON, DR. HUGH P(ENNOCK), b. West Chester, Pa, Dec. 10, 01; m. 28; c. 1. STATISTICS, SOCIOLOGY. A.B, Haverford Col, 24; fel, Pennsylvania, 26-27, M.A, 27; Ph.D, North Carolina, 30. Asst. soc. probs, inst. res. soc. sci, North Carolina, 27-30, soc. trends, 30-33; welfare statistician, State Emergency Relief Admin, N.C, 33-36; statistician, Works Progress Admin, D.C, 36-38; occup. health, U.S. Pub. Health Serv, 38-52; prog. studies, U.S. Off. Ed, 52-59; surv. statistician, U.S. Pub. Health Serv, 59-66; RETIRED. Fel. AAAS; fel. Pub. Health Asn; Pop. Asn; Statist. Asn; fel. Royal Statist. Soc. Analysis of health data; environmental, biological, and social factors affecting the health of workers. Publ: Women in industry, In: Manual of industrial hygiene, Saunders; Morbidity and mortality, In: Air pollution in Donora, Pennsylvania, Pub. Health Bull. 306, 49; co-auth, Morbidity and mortality experience of male workers in seven chromate plants, Pub. Health Reports, 9/52. Address: 12 Davie Circle, Chapel Hill, N.C. 27514.

BRINTON, DR. JAMES E(VERETT), b. Fessenden, N.Dak, Mar. 21, 16; m. 41; c. 3. MASS COMMUNICATION. B.S, Oregon, 39; A.M, Stanford, 52, Ph.D. (mass communications res), 56. Assoc. prof. communication & journalism, Stanford, 56-65; DEAN SCH. JOURNALISM, COLORADO, 65- U.S.A, 43-46. Mass communications; survey research; attitude measurement. Address: School of Journalism, University of Colorado, 229 Macky, Boulder, Colo. 80302.

BRISCOE, DR. JERRY B(OWLES), b. Wellington, Kans, Dec. 10, 27; m. 55. INTERNATIONAL RELATIONS. B.S, Northwestern, 48; M.A, Chicago, 49, Ph.D.(int. rels), 54; Rotary Found. fel, London, 49-50. Asst. prof. commun, Boston, 56-59; assoc. prof. soc. sci, Amarillo Col, 59-62; prog. officer, World Affairs Coun. North. Calif, 62-63, dep. dir, 63-64; ASSOC. PROF. POLIT. SCI, RAYMOND COL, UNIV. OF THE PACIFIC, 64- U.S.A, 54-56. Polit. Sci. Asn. International communications; pressure groups and public opinion. Publ: Future of nationalism, Symp, Nationalism; Past, Present & Future; The Sino-Soviet split, Pac. Rev; Chinese views of collaboration between the United States and Union of Soviet Socialist Republics, West. Polit. Sci. Asn, 66. Address: Dept. of Political Science, Raymond College, University of the Pacific, Stockton, Calif. 95204.

BRISCOE, PROF. NELLIS A(USTIN), Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols, deceased 67.

BRISKIN, DR. GERALD J(EOFFREY), b. Brooklyn, N.Y, Sept. 11, 29; m. 52; c. 2. PSYCHOLOGY. Ph.D.(clin. psychol), Michigan, 55. Chief clin. psychol. sect, U.S. Army Hosp, Ft. Campbell, Ky, 54-57; dir, Miami Off, Byron Harless & Assocs, Fla, 57-58; private practice, 58- Consult, Lutheran Soc. Serv. of Mich, 59-; Garden City Hosp, 63-; child appraisal center, Wyandotte Gen. Hosp, 65-; Vet. Admin. Hosp, Dearborn, 66- U.S.A, 52-57. Psychol. Asn. Publ: Co-auth, The clinical use of the Bender-Gestalt test, Grune, 60. Address: 2901 Devonshire Rd, Ann Arbor, Mich. 48104.

BRISSENDEN, PROF. PAUL F(REDERICK), b. Benzonia, Mich, Sept. 21, 85. LABOR ECONOMICS. A.B, Denver, 08; A.M, California, 12; univ. fel, Columbia, 14-15, Ph.D, 17. Spec. investigator, U.S. Bur. Labor Statist, 15-20; asst. prof. ECON, N.Y. Univ, 20-21; from asst. prof. to EMER. PROF, COLUMBIA, 21- Vis. colleague indust. rels, Hawaii, 62- Econ. Asn; Arbit. Asn. Industrial relations; earnings of factory workers from 1800 to 1927; wages. Address: Dept. of Industrial Relations, University of Hawaii, Honolulu, Hawaii 96822.

BRISTOL, DR. BENTON KEITH, Agr. Ed. & Mech, see Suppl. IV to 11th ed, Phys. & Biol. Vols.

BRISTOL, DR. RALPH B(UFFUM), JR, b. Swampscott, Mass, Mar. 26, 31. ECONOMICS. B.A, Amherst Col, 52; M.A, Yale, 53, Ph.D.(econ), 56. Asst. study dir, surv. res. center & lectr. econ, Michigan, 56-57; ECONOMIST, logistics dept, Rand Corp, 57-61; OFF. TAX ANAL, U.S. DEPT. TREAS, 61- Vis. lectr, Washington (Seattle), 59; lectr, grad sch. bus, Stanford, 67. Econ. Asn; Statist. Asn; Econom. Soc. Econometrics; fiscal policy; forecasting. Address: Office of Tax Analysis, U.S. Dept. of the Treasury, Washington, D.C. 20220.

BRISTOW, DR. WILLIAM HARVEY, b. Nettleton, Mo, Oct. 9, 97; m. 23; c. 3. EDUCATION, PSYCHOLOGY. B.S, Warrensburg State Col, 20; M.A, Columbia, 22, Ed.D, 36; Pennsylvania, 34-35. Asst. dir. sec. ed, Pa. Dept. Pub. Instr, 25-30, dir, 30-31; dept. supt. & dir, Curriculum Bur, 31-36; gen. secy, Nat. Cong. Parents & Teachers, 36-38; supvr. training sch, Pa. State Teachers Col. Mansfield, 39, dean instr, Shippensburg, 39-40; asst. dir. bur. reference, res. & statist, NEW YORK BD. ED, 40-49, dir. bur. curriculum res, 49-63, ASST. SUPT. BUR. CURRICULUM DEVELOP, 61- Summer teacher, Warrensburg State Teachers Col, 20, Oklahoma, 23, Cornell, 33 & George Washington, 36. Instr, N.Y. Univ, 40-48; City Univ. New York, 48-65. Editorial consult, Young America Films, 42-50; Popular Sci. Pub. Co, 57- Preparation of curriculum materials and the development of audio-visual materials and resources to support curriculum programs. Address: Bureau of Curriculum Development, 131 Livingston St, Brooklyn, N.Y. 11201.

BRITAN, NORMAN, b. Chicago, Ill, July 22, 18; m. 43; c. 2. ANTHROPOLOGY. B.S, Chicago, 39, M.A, 52; George Washington, 41. Coordinator soc. sci. prog, Wright Jr. Col, 53-59; chmn. dept. soc. sci, Southeast Jr. Col, 59-63; CHMN. DIV. SOC. SCI, NORTHEAST. ILL. STATE COL, 63- Mem, Ill. State Coun. Funding Projs, 66- U.S.A, 42-45, 1st Lt. Assoc. fel. Anthrop. Asn; fel. Soc. Appl. Anthrop. Cultural and urban anthropology; culture change. Publ: Co-auth, General education in the social sciences at Wright Junior College, In: Social science in general education, W.C. Brown, 60; auth, Introductory anthropology, T.V. Col, Chicago Bd. Ed, 60. Address: Division of Social Sciences, Northeastern Illinois State College, 5500 N. St. Louis Ave, Chicago, Ill. 60625.

BRITNEY, DR. J(OHN) B(AILEY), b. Petrolia, Ont, Feb. 3, 36; m. 59; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Ont. Agr. Col, 60; M.S, Purdue, 62, Ph.D.(agr. econ), 64. Res. economist, Can. Packers Ltd, 63-64; asst. prof. AGR. ECON, GUELPH, 64-67, ASSOC. PROF, 67- Farm Econ. Asn; Can. Agr. Econ. Soc. Application of operation research techniques to agri-business and farm management decision-making. Address: Dept. of Agricultural Economics, University of Guelph, Guelph, Ont, Can.

BRITT, PROF. RAY THOMAS, Agr. Mkt, see 10th ed, Soc. & Behav. Vols.

BRITT, PROF. STEUART HENDERSON, b. Kingdom of Callaway, June 16, 07; m. 36. PSYCHOLOGY. A.B, Washington (St. Louis), 31, fel, 31-32, A.M, 32; fel. Yale, 32-35, Ph.D.(psychol), 35; Columbia, 35-38. Asst. psychol, Yale, 33-35; res. assoc, inst. ed. res, Columbia, 35-36; asst. prof. psychol, George Washington, 36-42; assoc. dir. res, McCann-Erickson, Inc, N.Y, 46-48, mgr. res. & merchandising depts, 48-49, dir. personnel, 49-51; v.pres, Needham, Louis & Brorby, Ill, 51-56; admin. v.pres, Earle Ludgin & Co, 56-57; PROF. MKT, NORTHWESTERN, 57- Consult, nat. resources planning bd, War Manpower Cmn. & Nat. Res. Coun, 41-43; Westinghouse Elec. Corp, 42-60; Leo Burnett Co, 57-68; Producer Annual Creative Workshop, 58- Ed,

J. Mkt, 57-67. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N, 43-46, Lt. Comdr. Fel. AAAS; Psychol. Asn; Sociol. Asn; Mkt. Asn. Marketing; advertising; consumer research. Publ: Social psychology of modern life; Measuring advertising effectiveness; Consumer behavior and the behavioral sciences. Address: School of Business, Northwestern University, Evanston, Ill. 60201.

BRITTAIN, DR. CLAY VESTER, b. Alexandria, Ala, Mar. 19, 22. EDUCATIONAL PSYCHOLOGY. B.S, Jacksonville State Col, 44; M.A, Chicago, 52, Ph.D, 59. Asst. prof. psychol, Jacksonville State Col, 49-51, assoc. prof, 53-59; asst. prof. ed, Emory, 59-64; soc. sci. res. analyst, children's bur, U.S. DEPT. HEALTH, ED. & WELFARE, 64-66, RES. ASSOC, OFF. ED, 66- U.S.N.R, 43-46, Lt.(jg). AAAS; Psychol. Asn; Ed. Res. Asn. Adolescence, especially orientation of adolescents toward parents and peers. Publ: Adolescent choices and parent-peer cross-pressures, Am. Sociol. Rev, 6/63; co-auth, Black belt schools: beyond desegregation, South. Regional Coun, 11/65; auth, Age and sex of siblings and conformity toward parents versus peers in adolescence, Child Develop, 9/66. Address: 1810 Panda Lane, McLean, Va. 22101.

BRITTAIN, DR. JOHN A(SHLEIGH), b. Chicago, Ill, Sept. 10, 23; m. 49; c. 2. ECONOMICS. A.B, Knox Col, 44; London Sch. Econ, 54; Ph.D.(econ), California, 58. Res. assoc. math, Nat. Defense Res. Cmt, 43-46; mathematician, U.S. Naval Ord. Res, 46; asst. prof. econ, Mex. City Col, 50-51; lectr, Leeds, 55-56; asst. prof. statist, Cornell, 56-59; ECON, Vanderbilt, 59-61, assoc. prof, 61-64; MEM. SR. STAFF, BROOKINGS INST, 64- Ford Found. faculty res. fel, 61-62. Consult, N.Y. State Comptroller. Econ. Asn. Economic statistics; econometrics; mathematical economics; macroeconomic theory; social security payroll tax. Publ: Regression model for estimation of the seasonal component in unemployment and other volatile time series, Rev. Econ. & Statist; Some neglected features of Britain's income leveling, Am. Econ. Rev; Corporate dividend policy, Brookings, 66. Address: Brookings Institution, 1775 Massachusetts Ave, Washington, D.C. 20036.

BRITTAN, DR. MARGARET R, b. Alliance, Nebr. ECONOMICS, STATISTICS. A.B. Col. St. Teresa, 44; M.Sc, Denver, 46; Ph.D.(econ), Colorado, 60. Asst. prof. STATIST, DENVER, 49-60, ASSOC. PROF, 60- Nat. Sci. Found. summer fels. statist, Iowa State, 60 & regional sci, California, 61. Statist. Asn; Econ. Asn; Economet. Soc; Opers. Res. Soc. Am; Regional Sci. Asn. Regional economics and econometrics; field surveys in social sciences; personnel. Publ: A probability model for integration of Glen Canyon Dam into Colorado River system, 60 & Probability analysis applied to development of synthetic hydrology for the Colorado River, 61, Univ. Colorado; co-auth, Mathematical foundations, Pruitt, 64. Address: Dept. of Statistics, University of Denver, Denver, Colo. 80210.

BRITTO, DR. RONALD, b. Karachi, Pakistan, Apr. 19, 37; m. 65. ECONOMICS. B.A, St. Patrick's Col, Karachi, Pakistan, 56; dipl. Volkswirt, Heidelberg, 60; Ph.D.(econ), Brown, 66. Instr. ECON, Tufts, 63-65, ASST. PROF, 65, 67-68; CALIFORNIA, LOS ANGELES, 68- Econ. Asn. Theory of growth; linear models in economics. Publ: A stability theorem for 2-sector growth models, Metroeconomica, 9-12/65; Equilibrium dynamics in two types of growing economies, Econ. J, (in press). Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

BRITTON, DR. JEAN OPPENHEIMER, b. Columbia, Mo, July 8, 23; m. 48; c. 1. DEVELOPMENTAL PSYCHOLOGY. A.B, Louisville, 44; A.M, Columbia, 45; Ph.D, Chicago, 49. Caseworker, home serv. br, Am. Red Cross, Ky, 44; instr. & head women's dormitory, Indiana, 45-46; asst. head women's dormitory, Chicago, 46-48; instr. PSYCHOL, PA. STATE, 49-57, asst. prof, 57-62, ASSOC. PROF, 62- Consult, Off. Econ. Opportunity, 66-; Nat. Inst. Child Health & Human Develop, 67- Psychol. Asn; Geront. Soc; Personnel & Guid. Asn; Rehab. Asn. Developmental and educational psychology; human development; gerontology. Publ: Co-auth, Relationships within three-generation families; Expectations for older persons in a rural community; solution of personal problems and use of sources of help; Middle-aged and older person and his family, In: The Rural Aged, Univ. Kentucky, 67. Address: 525 N. McKee St, State College, Pa. 16801.

BRITTON, PROF. JOSEPH H(ENRY), b. Midland, Mich, Mar. 14, 22; m. 48. DEVELOPMENTAL PSYCHOLOGY. A.B, Albion Col, 46; Omicron Delta Kappa scholar, Chicago, 46, A.M, 48, Ph.D.(human develop), 49. Asst. prof. psychol, PA. STATE, 49-52, assoc. prof. child develop. & family rels, 52-60, PROF, 60-65, HUMAN DEVELOP, 65-, HEAD DEPT. CHILD DEVELOP. & FAMILY RELS, 65- Fulbright lectr, Univ. Jyväskylä, Finland, 63-64. Consult, Nat. Inst. Child. Health & Human Develop, 65- Mem, Gov. Adv. Bd. Probs. Older Workers, Pa, 56-; trustee, Philipsburg State Gen. Hosp, 61-65. U.S.A, 43-46. AAAS; Psychol. Asn; Sociol. Asn; Geront. Soc; Soc. Res. Child Develop; Ed. Res. Asn; Nat. Coun. Family Rels. Developmental psychology; social psychological change in adulthood; gerontology. Publ: Expectations for older persons in a rural community, J. Geront. & Geriat; Dimensions of adjustment of older adults, J. Geront, 63; Living in a rural Pennsylvania community, In: Patterns of living and housing, Govt. Printing Off, 67. Address: 525 N. McKee St, State College, Pa. 16801.

BRITTON, DR. VIRGINIA, b. W.Va, Oct. 11, 14. ECONOMICS. A.B, Akron, 36; Iowa State Col, 36-37; univ. fel, Chicago, 37-38, M.S, 38, univ. scholar. & Omicron Nu fel, 38-39, Ph.D, 50. Asst. family econ, agr. exp. sta, Vermont, 39-41; field supvr. spending & saving in wartime, U.S. Dept. Labor, 42; instr. econ, Akron, 43, asst. prof. econ, 46-51; bus. admin, Kent State, 43-45; family economist, bur. human nutrit. & home econ, U.S. Dept. Agr, 52-54; prof. family econ, Pa. State, 54-61; FAMILY ECONOMIST, CONSUMER & FOOD ECON. RES. DIV, U.S. DEPT. AGR, D.C, 62- Lectr, Maryland, 62-66. Econ. Asn; Home Econ. Asn. Publ: Personal finance, Am. Book Co, 68; Family budgets, In: Encyclop. Americana, 68. Address: 3314 Gumwood Dr, Hyattsville, Md. 20783.

BRIZEE, DR. ROBERT LOUIS, Counseling, Sociol, see 10th ed, Phys. & Biol. Vols. Latest known address: 153 Lincoln St, Twin Falls, Idaho 83301.

BRO, DR. HARMON H(ARTZELL), Psychol. of Relig, see 10th ed, Phys. & Biol. Vols. Latest known address: 32 Geneva St, Williams Bay, Wis. 53191.

BROADBENT, DEE A(LBERT), b. Heber, Utah, July 9, 11; m. 34; c. 6. AGRICULTURAL ECONOMICS. B.S, Utah State Agr. Col, 36; M.S, Illinois, 38. County supvr, U.S. Resettlement Admin, 36; instr. agr. econ, Utah State Agr. Col, 38-41, asst. prof, 41-44; exten. economist, State Exten. Serv, Utah, 44-47; res. assoc, Illinois, 47-48; asst. dir, exp. sta, UTAH STATE, 48-52, act. dir, 52-54, assoc. prof. agr. econ, 47-49, prof, 49-54, bus. mgr, 54-61, V.PRES. BUS, 61- Marketing and production or range livestock; labor requirements to meet Utah production goals; economic analysis of turkey production in Utah. Address: Utah State University, Logan, Utah 84321.

BROADBENT, DR. J(OHN) EDWARD, b. Oshawa, Ont, Mar. 21, 36; m. 61. POLITICAL SCIENCE. B.A, Toronto, 59, M.A, 61, Ph.D.(polit. sci), 66. Lectr. POLIT. SCI, YORK (ONT), 65-66, ASST. PROF, 66- Am. Polit. Sci. Asn; Can. Polit. Sci. Asn. Publ: The importance of class in the political theory of John Stuart Mill, Can. J. Polit. Sci, Vol. 1, No. 3. Address: Dept. of Political Science, York University, Toronto 12, Ont, Can.

BROADHEAD, PROF. RUSSELL H(AYNES), b. Jamestown, N.Y, July 31, 09. SOCIOLOGY. A.B, Otterbein Col, 31; A.M, Cornell, 37; Ph.D, Stanford, 46. Teacher, San Francisco State Col, 46-47; PROF. SOC. STUDIES, WAYNE STATE, 47- Mem. faculty, Calif. State Col. Hayward, 67- Mem, Nat. Coun. Soc. Studies. Social studies education; educational sociology. Address: 22035 Edison St, Dearborn, Mich. 48124.

BROADHURST, DR. ALLAN R(OSCOE), b. Washington, D.C, July 29, 32; m. 54; c. 3. COMMUNICATIONS, SPEECH. B.A, Denison, 54; B.D, Drew, 58; Ph.D.(commun. theory), Mich. State, 61. Resident coordinator commun. seminars, Mich. State Univ, 60-61; ASSOC. PROF. SPEECH, CONNECTICUT, 61- Commun. consult, Agency Int. Develop, 60-; New Eng. Hosp. Assembly, 63- Distinguished faculty award, Univ. Connecticut, 63, outstanding teacher award, 65. Speech Asn; Nat. Soc. Study Commun. Communication theory; cross-cultural and interpersonal communications; semantics. Publ: A study of the sermons of Dr. Norman Vincent Peale, Prentice-Hall, 63; Education: the worth of the individual, Vital Speeches of the Day, 4/65; co-auth, an introduction to cybernetics and information theory, Quart. J. Speech, 12/65. Address: Dept. of Speech, University of Connecticut, Storrs, Conn. 06268.

BROBST, PROF. HARRY KERN, b. Wilmington, Del, Feb. 11, 09; m. 35. PSYCHOLOGY. A.B, Brown, 39; M.A, Pennsylvania, 41, Ph.D.(psychol), 52. Instr. psychol, Pennsylvania, 42-44; tech. asst, cmt. selection & training aircraft pilots, Nat. Res. Coun, 44-46; asst. prof. PSYCHOL, OKLA. STATE, 46-52, assoc. prof, 52-54, PROF, 54-, DIR. BUR. TESTS & MEASUREMENTS, 46- Dir. testing prog. & consult, pub. schs, State of Okla. Psychol. Asn; Personnel & Guid. Asn. Educational-vocational counseling; test construction; statistics. Address: Dept. of Psychology, Oklahoma State University, Stillwater, Okla. 74074.

BROCHARD, DR. JOHN HUNTER, b. Elmhurst, N.Y, Nov. 13, 17. PSYCHOLOGY. B.A, Manhattan Col, 41; M.A, Columbia, 46, Ed.D, 55. Personnel mgr, Lily-Tulip Cup Corp, N.Y, 47-48; consult, Am. Overseas Airlines, 48-49; dir. student personnel, Monmouth Col.(N.J), 49-52; asst. ed, Teachers Col, Columbia, 52-54; asst. prof. ed. psychol, Illinois, 54-56; Buffalo, 56-58; Rutgers, 58-65; dir. bur. voc. counseling & teaching, Job Orientation in Neighborhoods, N.Y, 65-67; PSYCHOLOGIST, VET. ADMIN. HOSP, NORTHPORT, 67- Consult, Vet. Admin, 59- C.Eng, 42-45, Sgt. Psychol. Asn; Personnel & Guid. Asn. Attitude scale construction and use; test construction; vocational development. Publ: Handbook of occupations for Middletown, N.Y; School subjects and jobs; Foundation examinations in psychology, sociology and philosophy. Address: Baillie Beach Rd, Mattituck, N.Y. 11952.

BROCK, DR. SAMUEL MITCHELL, b. Chicago, Ill, Dec. 30, 33; m. 53; c. 3. ECONOMICS, STATISTICS. B.S, Michigan, 56, M.F, 56; Greater Univ. fel, Minnesota, Minneapolis, 60, Ph.D.(resource econ), 63. Res. forester, Northeast. Forest Exp. Sta, U.S. Forest Serv, 56-60; asst. prof. resource econ, Maine, 60-64; agr. economist, bur. land mgt, U.S. Dept. Interior, 64-65; asst. prof. RESOURCE ECON, WEST VIRGINIA, 65-67, ASSOC. PROF, 67- Res. grant, Resources for Future, Inc, Wash, D.C, 66-67. Econ. Asn; Agr. Econ. Asn; Soc. Am. Foresters. Resource economics; sample survey design; marketing of forest products; sociological study of factors motivating woodland owner behavior; benefits and costs of surface mining for coal in West Virginia—a study in welfare economics. Publ: Marketing Maine lumber to the Northeastern building construction industry, Bull. 615, 9/63 & The market for lumber in Maine manufacturing industries, Bull. 621, 3/64, Maine Agr. Exp. Sta; co-auth, The Myles job mine—a study of the benefits and costs of surface mining for coal in Northern West Virginia, W.Va. Center Appalachian Studies, ORD Res. Series 1, 4/68. Address: Center for Appalachian Studies, West Virginia University, Morgantown, W.Va. 26506.

BROCKIE, PROF. MELVIN D(AVID), Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

BROCKINGTON, DR. DONALD LESLIE, b. Weslaco, Tex, Apr. 28, 29; m. 55; c. 3. ANTHROPOLOGY. B.A, New Mexico, 54; M.A, Univ. of the Americas, 57; Ph.D.(anthrop), Wisconsin, 65. Lectr. ANTHROP, Univ. of the Americas, 57; asst, Wisconsin, 60-63; asst. prof, San Diego State Col, 63-67; ASSOC. PROF, NORTH CAROLINA, 67- Summer instr, Wisconsin, 65. Dir. hwy. salvage prog, State Hist. Soc. Wis, 60-62. A.U.S, 51-53. AAAS; Anthrop. Asn; Soc. Am. Archaeol. Mesoamerican anthropology and archaeology; archaeological inference. Publ: Co-auth, Reconocimiento arqueologico del suroeste de Oaxaca, Instituto Nacional de Antropologia e Historia, Mex, 57; auth, Archaeological sequence from Sipolite, Oaxaca, Mexico, Soc. Am. Archaeol. & Univ. Wisconsin, 66; Ceramic history of Santa Rosa, Chiapas, Mexico, New World Archaeol. Found, (in press). Address: Dept. of Anthropology, Person Hall, University of North Carolina, Chapel Hill, N.C. 27514.

BROCKMAN, NORBERT C, S.M, b. Cincinnati, Ohio, Mar. 2, 34. POLITICAL SCIENCE. A.B, Dayton, 55; scholar, Catholic Univ, 57-60, M.A, 58, Ph.D. (polit), 63. Teacher, Society of Mary, 55-57; instr. POLIT. SCI, DAYTON, 63-65, ASST. PROF, 65-, CHMN. DEPT, 66- Summer lectr, N.Y. Univ, 63. Soc. Pub. Admin; Polit. Sci. Asn; Int. Asn. Chiefs Police. Political philosophy; urban politics. Publ: American Bar Association, Am. J. Legal Hist, 62; Laissez-faire theory in the early American Bar Association, Notre Dame Lawyer, 64; Co-auth, Community action, Fides, 67. Address: Dept. of Political Science, University of Dayton, Dayton, Ohio 45409.

BROCKOPP, DR. GENE WILLIAM, b. Glidden, Wis, May 3, 31; m. 57; c. 1. PSYCHOLOGY. B.S, Concordia Col.(Ill), 54; M.S, Indiana, 56, Ph.D, 58. Dir. spec. ed. res, State Legis, Ind, 57-58; assoc. prof, Valparaiso, 58-65; intern clin. psychol, Childrens Mem. Hosp, 65-66; res. med. psychol, med. sch, Oregon, 66-67; FEL. SUICIDOLOGY, SCH. MED, HOPKINS, 67- Vis. lectr, Indiana, 58-59; exec. dir, Calumet Region Ment. Health Cmn, 64-66; dir, Ind. Asn. Retarded Children, 64-65; fel, Northwestern, 65-66. Consult. Lutheran Ed. Asn. & Vale Day Sch. Ment. Retarded, 58-64. Psychol. Asn. Educational psychology; programs for gifted and retarded; suicidology; psychotherapy; crisis intervention. Publ: Report of the Calumet Region Commission on Mental Health, Valparaiso Univ, 65; Parish role of the Lutheran teacher. Address: 1309 Windemere, Baltimore, Md. 21218.

BROCKWAY, DR. THOMAS PARMELEE, b. Clinton, N.Y, Nov. 21, 98; m. 27; c. 1. POLITICAL ECONOMY. B.A, Reed Col, 21; Rhodes scholar, Oxford, 22-25, B.Litt, 25; Ph.D.(hist), Yale, 37. From instr. to assoc. prof. hist, St. John's Col.(Md), 25-30; asst. prof, Dartmouth, 30-31; instr, Yale, 31-33; mem. faculty hist. & polit. econ, Bennington Col, 33-66, dean, 53-61; RETIRED. Prin. adminstr, Bd. Econ. Warfare For. Econ. Admin, 41-44; res. assoc, Harvard, 52; exec. assoc, Am. Coun. Learned Socs, 60-61, mem. fel. cmt, 61, staff officer cmt. on res. libraries, 67. U.S.A, 18. Hist. Asn. Origins of World War I; imperialism; problems of American research libraries. Publ: Battles without bullets; Basic documents in U.S. foreign policy; Language and politics, Heath, 66. Address: R.D. 1, North Bennington, Vt. 05257.

BRODBECK, DR. ARTHUR JOSEPH, b. Tarrytown, N.Y, June 7, 22. SOCIAL & CHILD PSYCHOLOGY. B.S, Chicago, 45; M.A, Iowa, 46, Ph.D, 49. Asst. prof. psychol, Illinois, 49-51; Boston, 52-54; fel. behav. sci, center adv. study, Stanford, 54-55; res. psychologist, Mt. Sinai Hosp, Los Angeles, 56-59; CONSULT. PSYCHOLOGIST, LAW SCH, YALE, 60- Vis. lectr, Wesleyan, 62; vis. prof. commun, Pennsylvania, 64-65; sr. res. psychologist, Center Urban Ed, N.Y, 65-67. Consult, Univ. Chicago, 63-64; Nat. Col. Ed, 63-65; N.Y. State Ed. Dept, 65-66. AAAS; Psychol. Asn; Soc. Res. Child Develop; Sociol. Asn. Theory and measurement of values, mood and feeling; character education; decision seminar techniques; media and myth analysis and practice; psychotherapy interactions; cross-cultural communication. Publ: Co-auth, Television and human behavior, Appleton, 63; auth, Speech behavior of infants without families, Child Develop; co-ed, American voting behavior. Address: Yale University Law School, New Haven, Conn. 06520.

BRODERICK, DR. CARLFRED B(ARTHOLOMEW), b. Salt Lake City, Utah, Apr. 7, 32; m. 52; c. 7. SOCIOLOGY. A.B, Harvard, 53; univ. fel, Cornell, 53-54, Soc. Sci. Res. Coun. fel, 55-56, Ph.D, 56. ASSOC. PROF. family develop, Georgia, 56-60; FAMILY RELS, PA. STATE, 60- Nat. Insts. Health res. grants, 57-59, 61-; Nat. Inst. Ment. Health fel. marriage counselling, Minnesota, 66-67. Sociol. Asn; Soc. Res. Child Develop; Nat. Coun. Family Rels; Soc. Sci. Study Sex. American courtship system; American family structure; normal heterosexual social development in children; determinants of inter-personal attraction; family role structure. Publ: Co-auth, Nature and role of informal family groups, Marriage & Family Living, 5/54; auth, Socio-sexual development in a suburban community, J. Sex Res, 4/66; Sexual behavior among pre-adolescents, J.Soc. Issues, 4/66. Address: Human Development South, Pennsylvania State University, University Park, Pa. 16802.

BRODERSEN, DR. ARVID, b. Trondheim, Norway, Sept. 22, 04. SOCIOLOGY. Ph.D, Berlin, 30. Assoc. prof, Oslo, 35-40; counsr, soc. sci. dept, UNESCO, Paris, 46-47, acting head, 47-49; prof. sociol, New Sch. Soc. Res, 49-67; SR. FEL. SOC. SCI, CENTER ADV. STUDIES, WESLEYAN, 67- Rockefeller Found. grant, 57-58. Sociol. Asn. Thorstein Veblen as sociologist; science and politics in Max Weber; United States foreign policy. Publ: The Soviet worker, Random, 66. Address: Center for Advanced Studies, Wesleyan University, Middletown, Conn. 06457.

BRODIE, PROF. BERNARD, b. Chicago, Ill, May 20, 10; m. 36; c. 3. INTERNATIONAL RELATIONS. Ph.B, Chicago, 32, Ph.D, 40. Instr, Dartmouth Col, 41-43; assoc. prof. & dir. grad. studies, dept. int. rel, Yale, 45-51; sr. staff mem, Rand Corp, 51-66; PROF. POLIT. SCI, CALIFORNIA, LOS ANGELES, 66- Carnegie fel, Inst. Adv. Study; resident prof, Nat. War Col, 46-47; spec. asst. to chief of staff, U.S. Air Force, 50; Carnegie Corp. reflective year fel, 60-61. Tech. expert, U.S. del, UN Conf, San Francisco; sr. specialist nat. defense, legis. reference serv, Library Cong. Mem. bd. dirs, Found. Res. Psychoanal, Calif, 65- U.S.N.R, 43-45. Polit. Sci. Asn. Military strategy; international relations. Publ: Sea power in the machine age, 41, rev. ed, 44; Guide to naval strategy, 42, rev. eds, 43, 44, 58; Strategy in the missile age, 59, rev. ed, 65. Address: Dept. of Political Science, University of California, Los Angeles, Calif. 90024.

BRODIE, DR. CHARLES M(acMILLAN), b. U.S, Dec. 27, 32; m. 59; c. 2. CLINICAL PSYCHOLOGY. B.A, Carleton Col, 54; U.S. Pub. Health Serv. fel. & Ph.D.(psychol), Illinois, 60. Instr. med. psychol, dept. psychiat, neurol. & behav. sci, sch. med, Oklahoma, 60-62, asst. prof, 62-65; CLIN. ASST. PROF. PSYCHOL, DEPT. PSYCHIAT, SCH. MED, EMORY, 65-, VIS. LECTR. DEPT. PSYCHOL, 67-; UNIT CHIEF PSYCHOL, GA. MENT. HEALTH INST, ATLANTA, 65- Vis. lectr, Oklahoma City Univ, 61-64. Consult, U.S. Penitentiary, Atlanta, 66- AAAS; Psychol. Asn. Description and prediction of behavior; therapeutic community; analysis of natural group systems. Address: Georgia Mental Health Institute, 1256 Briarcliff Rd. N.E, Atlanta, Ga. 30306.

BRODIE, DOROTHY BENNETT, b. Gloucester, Mass, Oct. 23, 09; m. 51. CLINICAL PSYCHOLOGY. B.S, N.Y. Univ, 30; Jagiellonian Univ, Poland, 37-39; Pepper fel, Pennsylvania, 39-41, M.A, 41. Instr. psychiat, med. sch, & chief psychologist, univ. hosp, Virginia, 42-47; clin. psychologist, reading clin, N.Y. Univ, 47-50; chief psychologist, Child Guid. Clin. Pinellas County, 50-67; private practice, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 49. Psychol. Asn; fel. Soc. Proj. Tech; Asn. Adv. Psychother. Behavior disorders of children; evaluation and therapy; counseling with parents; reading disabilities and their causes. Publ: Co-auth, Anorexia nervosa with special regard to insulin therapy, South. Med. J. Address: 630 Coral Way, Apt. 20, Coral Gables, Fla. 33134.

BRODLIE, DR. JEROME FLAGG, b. Englewood, N.J, June 14, 38; m. 66; c. 1. PSYCHOLOGY. B.S, Illinois, 60; M.A, Columbia, 61, Ph.D.(psychol), 66. Lectr. psychol, Hunter Col, 61-62; ASST. PROF. PSYCHOL. & ED, BROOKLYN COL, 62- Psychologist, Greenwich Hosp. Asn, Conn, 67-; consult, L.I. Jewish Hosp, N.Y, 65- Psychol. Asn; Soc. Res. Child Develop. Dyslexiac children; child clinical psychology; intellectual development. Publ: Programmed teaching, Individual Psychologist, 2/67; co-auth, Knowing the law—a study of attitudes, Teachers Col. Record, 3/68. Address: 45 East End Ave, New York, N.Y. 10028.

BRODSKY, DR. CARROLL M, b. Lowell, Mass, Dec. 23, 22; m. 47; c. 3. MEDICAL ANTHROPOLOGY. A.B, Catholic Univ, 49, M.A, 50, Ph.D.(anthrop), 54; M.D, California, 56. Lectr. anthrop, Catholic Univ, 52; fel. Psychiat, Langley Porter Neuropsychiat. Inst, 57-60; clin. instr. PSYCHIAT, SCH. MED, CALIFORNIA, SAN FRANCISCO, 60-61, asst. clin. prof, 61-67, ASSOC. CLIN. PROF, 67-, DIR. ADULT PSYCHIAT. CLIN, 67- Dipl, Am. Bd. Psychiat. & Neurol. U.S.A.A.F, 43-46. Acad. Psychosom. Med; Am. Med. Asn; Psychiat. Asn; fel. Anthrop. Asn; fel. Col. Psychiat. Social and clinical psychiatry. Publ: Co-auth, Psychiatric care, Grune, 64; Therapeutic programming for the non-psychotic patient, Am. J. Psychiat, 64; auth, Personality disorders, In: The new Catholic encyclop, McGraw, 66. Address: Dept. of Psychiatry, University of California Medical Center, San Francisco, Calif. 94122.

BRODSKY, DR. MARVIN J, b. Brooklyn, N.Y, Aug. 22, 30; m. 54; c. 2. PSYCHOLOGY, CLINICAL PSYCHOLOGY. B.A, City Col. New York, 54; Ph.D. (psychol), Texas, 61. Clin. psychologist, Conn. Valley Hosp, 61-63; ASST. PROF. PSYCHOL, NEBRASKA, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol, 66. U.S.A, 54-56. Fel. Soc. Proj. Tech; Psychol. Asn. Experimental psychopathology, research in basic personality; relationship of early experience to subsequent psychological development. Publ: Interpersonal stimuli as interference in a sorting task, J. Personality, 63; Sex differences in verbal interaction as a function of severity of pathology, J. Clin. Psychol, 64. Address: Dept. of Psychology, University of Nebraska, Lincoln, Nebr. 68508.

BRODSKY, DR. NATHAN, b. Philadelphia, Pa, Sept. 22, 16; m. 46; c. 3. ECONOMICS. B.S, Temple, 37; Pennsylvania, 38-40; Ph.D.(econ), American Univ, 59. Economist, UNRRA, 46-48; supply mgt. specialist, U.S. Munitions Bd, 48-51, dep. v.chmn, 51-52; dep. dir, Defense Supply Mgt. Agency, 52-53; asst. dir, U.S. Cataloging & Standardization, 53-57; staff dir. logistics res, OFF. SECY. DEFENSE, 57-66, DIR. ED. PROGS, 66- Vis. lectr, Indust. Col. Armed Forces, 52-; inst. tech, Air Univ, 58- Consult, intergovt. rel. subcmt, U.S. House Rep, 49-52. U.S.A, 40-46, Col. Econ. Asn. National security; managerial economics; international trade and finance. Publ: An appraisal of logistics research; Some aspects of international relief, Quart. J. Econ; Need for a strategy of research, Naval Res. Logistics Quart. Address: 2840 Lorcom Lane, Arlington, Va. 22207.

BRODY, PROF. DAVID S, b. Minneapolis, Minn, Feb. 6, 09; m. 38; c. 3. DEVELOPMENTAL & EDUCATIONAL PSYCHOLOGY. B.S, Minnesota, 32, M.A, 36, Ph.D, 52. Asst. child psychol, inst. child welfare, Minnesota, 34-36; test construct. projs, pub. schs, Minn, 36-40; dir. counseling center, Montana State, 46-51; assoc. prof. psychol, ORE. COL. ED, 53-57, PROF. PSYCHOL. & DIR. PSYCHOL. SERV, 57- Instr, adult ed. dept, pub. schs, Minn, 33-41. U.S.A, 41-46, 51-53, Maj. Psychol. Asn. Teacher education; counseling and guidance. Publ: Twin resemblances in mechanical ability with reference to the effects of practice on performance, J. Child Develop; Comparative study of different forms of spelling tests, J.Ed. Psychol; Genetic study of sociality patterns of college women, Ed. & Psychol. Measurement. Address: 249 N. Pacific Ave, Monmouth, Ore. 97361.

BRODY, DR. EUGENE B, b. Columbia, Mo, June 17, 21; m. 44; c. 3. PSYCHIATRY, PSYCHOANALYSIS. A.B. & A.M, Missouri, 41, B.S, 43; M.D, Harvard, 44; grad, N.Y. Psychoanal. Inst. Intern, Yale Psychiat. Inst. & Grace-New Haven Community Hosp, 44-45, asst. res, 45-46, chief res, 48-49, assoc. psychiatrist, 48-51, attend. psychiatrist, 51-57; asst. PSYCHIAT, sch. med, Yale, 44-46, instr, 48-51, asst. clin. prof, 51-53, assoc. clin. prof, 53-57; PROF, SCH. MED, MARYLAND, 57-, CHMN. DEPT. & DIR. PSYCHIAT. INST, 59-, psychiatrist-in-chief, Univ. Hosp. & Inst, 57-59. Chief neuropsychiat. serv, Vet. Admin. Hosp, West Haven, 53-57. Consult, Md. State Hosps, 57-; Pan Am. Health Orgn-WHO, 66- Ed-in-chief, J. Nervous & Ment. Disease, 67- Mem. prfnl. adv. bd, psychiat, neurol. & psychol. serv, Vet. Admin, 62-66; Interam. Coun. Psychiat. Asns, 65-; sci. adv. bd, inst. soc. psychiat, Lima, 67- Med.C, 46-48. AAAS; Am. Psychiat. Asn; Am. Psychoanal. Asn; Group Adv. Psychiat; Am. Sociol. Asn; Nat. Asn. Ment. Health; Can. Psychiat. Asn; Int. Psychoanal. Asn; Peruvian Psychiat. Asn. Social, clinical and cross-cultural psychiatry; psychiatric sociology; schizophrenia; clinical psychoanalysis. Publ: Co-auth, Psychotherapy of schizophrenics, Int. Univs, 52, Psychiatric epidemiology and mental health planning, Am. Psychiat. Asn, 67 & Minority group adolescents in the United States, Williams & Wilkins, 68. Address: 645 W. Redwood, Baltimore, Md. 21201.

BRODY, DR. NATHAN, b. Brooklyn, N.Y, Aug. 12, 35; m. 59; c. 1. PSYCHOLOGY. B.A, New Hampshire, 56; M.A, Michigan, 57, Ph.D, 61. Asst. prof. PSYCHOL, New Hampshire, 60-61; instr, Princeton, 61-63; asst. prof, GRAD. FACULTY, NEW SCH. SOC. RES, 63-66, ASSOC. PROF. & CHMN. DEPT. 65- Psychol. Asn. Individual differences in motivation; psychological information processing. Publ: Need achievement, test anxiety and sub-

jective probability of success in risk-taking behavior; Anxiety and the statistical structure of binary response sequences, J. Abnorm. & Soc. Psychol, 64; co-auth, Tensions in psychology between methods of behaviorism and phenomenology, Psychol. Rev, 66. Address: Dept. of Psychology, New School for Social Research, New York, N.Y. 10011.

BRODY, DR. RICHARD A, b. New York, N.Y, Mar. 2, 30; m. 64; c. 3. POLITICAL SCIENCE, INTERNATIONAL POLITICS. B.A, San Francisco State Col, 58, M.A, 59; Ph.D.(polit. sci), Northwestern, 63. Soc. sci. analyst, U.S. Naval Ord. Test Sta, China Lake, Calif, 61-62; asst. prof. POLIT. SCI, STANFORD, 62-66, ASSOC. PROF, 66- Fel, Center Adv. Study Behav. Sci, 67-68. Consult, Systs. Develop. Corp, 67-; Rand Corp, 67- U.S.A, 48-52. Fel. AAAS; Polit. Sci. Asn; Int. Studies Asn. International political decision-making; American foreign policy and public opinion and foreign policy. Publ: Co-auth, Simulation in international politics, Prentice-Hall, 63 & Cubans in exile: revolution and disaffection, Stanford, 68; auth, System and decision-making: essays on international politics, Wiley, 69. Address: Institute of Political Studies, 550 Salvatierra St, Stanford, Calif. 94305.

BRODY, DR. STUART A(LAN), b. Chicago, Ill, Nov. 29, 33; m. 60; c. 2. SOCIOLOGY, LAW. A.B, California, Los Angeles, 55; M.A, Southern California, 58, Ph.D.(sociol), 62. Res. asst. sociol, Southern California, 56-58; assoc. human factors scientist, Syst. Develop. Corp, 58-62; res. proj. dir, Calif. Dept. Ment. Hyg, 62-65; spec. consult, CALIF. STATE DEPT. ED, 65-67, res. & eval. consult, 67-68, EXEC. SECY, CALIF. STATE ADV. CMT. ADULT ED, 68- Lectr, Loyola (Calif), 61-62; Calif. Inst. Govt, summer, 67. Pres, North. Calif. Res. Assocs, Inc, 66- Consult, Calif. State Off. Econ. Opportunity, 65-67. U.S.A.F, 58-59, Res, 66-, Capt; Air Nat. Guard, 59-66. Fel. AAAS; Sociol. Asn; Law & Society Asn. Communication in small groups; group dynamics; education of culturally and economically disadvantaged; history of psychiatry and mental illness. Publ: Hospitalization of the mentally ill during California's early years, Psychiat. Quart. Suppl, 11/64; co-auth, Discharge and death rates in California state hospitals: 1852-1954, Arch. Gen. Psychiat, 11/66 & Psychiatry in the Gold Rush era: California and Victoria, Ment. Hyg, 6/67. Address: 6601 Willowbrae Way, Sacramento, Calif. 95831.

BRODY, DR. S(YLVIA), b. New York, N.Y, Oct. 17, 14; m. 49. CLINICAL PSYCHOLOGY. Ph.D, N.Y. Univ, 54. CLIN. PSYCHOLOGIST, 50- Psychologist, pediat. psychiat. serv, Lenox Hill Hosp, New York, 57-63, dir. infant develop. res. proj, 63-67; dir. child develop. res. proj, City Univ. New York, 67- Psychol. Asn; Soc. Res. Child Develop. Ego development in infancy; child analysis; mother-infant interaction. Publ: Patterns of mothering, 56 & Passivity, 64, Int. Univs. Address: 1148 Fifth Ave, New York, N.Y. 10028.

BRODY, ZELMORE H(ABER), b. Knoxville, Tenn, Aug. 4, 25; m. 51; c. 3. PSYCHOLOGY. B.A, Tennessee, 50, M.A, 51. Staff psychologist, East. State Hosp, Knoxville, 48-51; asst. psychologist, Lynchburg State Colony, 52-53, assoc. psychologist, 53-54; psychologist, State Dept. Ed, 54-56; DIR. DANIEL ARTHUR REHAB. CENTER, OAK RIDGE, 56- Sch. psychologist, Anderson County Bd. Ed, Tenn, 56-62. Mem. Coun. Except. Children. Private consult, 55- U.S.A, 43-46. Psychol. Asn; fel. Asn. Ment. Deficiency. Development of comprehensive rehabilitation program servicing clients suffering from physical, emotional and mental disabilities; coordination of medical, social, psychological, educational and vocational services. Address: Daniel Arthur Rehabilitation Center, Oak Ridge, Tenn. 37830.

BROEDEL, DR. JOHN WESLEY, b. Mt. Carmel, Ill, May 24, 29; m. 51; c. 2. PSYCHOLOGY. B.S, Ind. State Col, 50, M.S, 54; Ed.D.(counseling), Illinois, 58. Asst. prof. ed, Ohio State, 58-62, assoc. prof, 62-63; asst. prof. psychol, Michigan, 63-66, assoc. prof, 66-67, asst. chief counseling div, 63-67; ASSOC. PROF. PSYCHOL. & ED, WASHINGTON (SEATTLE), 67-, DIR. COUNSELING CENTER, 67- U.S.A, 51-53. Psychol. Asn. Psychology of late adolescents and early adulthood; theory and practice of counseling and psychotherapy. Publ: Co-auth, The effects of group counseling on gifted underachieving adolescents, J. Counseling Psychol, 60; Intimacy and distance in the interpersonal relationships of persons prone to depression, J. Proj. Tech, 12/67. Address: Counseling Center, Lewis Hall Annex, University of Washington, Seattle, Wash. 98115.

BROEK, PROF. JAN O(TTO) M(ARIUS), b. Utrecht, Netherlands, Dec. 8, 04; nat; m. 32; c. 3. GEOGRAPHY. Drs, Utrecht, 29, Ph.D, 32; London, 29; California, 30-31. Rockefeller Found. fel. in soc. sci, 29-31; res. secy, Netherlands Cmt. Coord. of Transportation, 32-33; mem. staff, div. commerce, Netherlands Rwy, 33-36; vis. lectr. geog, Iowa, Calif. & Ohio, 36-37; asst. prof, California, 37-40, assoc. prof, 40-46; PROF. & HEAD DEPT. soc. geog, Utrecht, 46-48; GEOG, MINNESOTA, MINNEAPOLIS, 48- Lectr, Naval Sch. Mil. Govt, Columbia, 42-44; vis. Fulbright prof, Univ. Malaya, Singapore, 54-55; vis. prof, Univ. Indonesia, 47, Univ. California, Berkeley, 67-68. Res. assoc, Am. Coun. Inst. Pac. Rels, 42-44; consult, geog. br, Mil. Intel, D.C, 43-44; asst. to chief Far East. Div, Off. Strategic Serv, 45; dir. S. Asia Hist. Atlas Proj, Univ. Minnesota, U.S. Off. Ed. grant, 65- Am. Coun. Learned Socs-Soc. Sci. Res. Coun. award, 61-62. Asn. Am. Geog. (v.pres, 59-60, pres, 60-61); Asn. Asian Studies; cor. mem. Royal Netherlands Geog. Soc; Netherlands Asn. Econ. & Soc. Geog. Human geography; historical geography of Southeast Asia. Publ: Santa Clara Valley of California, 32; Compass of geography, C.E. Merrill, 66; co-auth, A geography of mankind, McGraw, 68. Address: Dept. of Geography, University of Minnesota, Minneapolis, Minn. 55455.

BROEL-PLATERIS, DR. ALEXANDER, b. Sveksna, Lithuania, Dec. 20, 13; nat; m. 43. SOCIOLOGY. Dipl, Nat. Univ. Kaunas, Lithuania, 36; M.A, Chicago, 55, Ph.D.(sociol), 61. Asst. hist. law, Nat. Univ. Kaunas, 37-39; Vilnius Univ, 40-41; ANAL. STATISTICIAN. DEMOG, NAT. VITAL STATIST. DIV, U.S. PUB. HEALTH SERV, 58- Sociol Asn; Pop. Asn. Statistics of marriage and divorce. Publ: Legal ties of Lithuania with Livonia and Courland in 16th-18th centuries, Kaunas; Statistical data on marriage stability, Ann. Faculté de Droit d'Istanbul; Divorce statistics analysis, 1962 and 63, In: Vital and health statistics, Series 21, No. 7 & 13. Address: National Center for Health Statistics, U.S. Public Health Service, Washington, D.C. 20014.

BROEN, PROF. WILLIAM E(RNEST), JR, b. Marshall, Minn, Aug. 2, 31; m. 57. PSYCHOLOGY. B.A, Minnesota, 52, M.A, 54, U.S. Pub. Health Serv. fel. & Ph.D.(clin. psychol), 56. Instr. PSYCHOL, Minnesota, 56; asst. prof, Kansas, 56-58; CALIFORNIA, LOS ANGELES, 58-64, assoc. prof, 64-67, PROF, 67- Consult, Vet. Admin, 61. Psychol. Asn. Psychological measurement; experimental studies of abnormal behavior. Publ: Co-auth, Lawful disorganization: the process underlying a schizophrenic syndrome, & auth, Response disorganization and breadth of observation in schizophrenia, Psychol. Rev, 66; co-auth, A theory of response interference in schizophrenia, In: Vol. IV, Progress in Experimental Personality Research, Academic, 67. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

BROGADIR, DR. PHILIP, b. Brooklyn, N.Y, Sept. 12, 29; m. 60; c. 1. CLINICAL PSYCHOLOGY. A.B, Brooklyn Col, 51; M.A, City Col. New York, 53; Ph.D, Denver, 59. Clin. psychologist, Brooklyn Vet. Admin. Outpatient Clin, 59-62; CHIEF PSYCHOLOGIST, BUFFALO GEN. HOSP, 62- Psychotherapist, Bleuler Psychother. Center, 60-; clin. assoc, dept. psychol. & dept. psychiat, sch. med, State Univ. N.Y. Buffalo, 63- U.S.A, 53-55, Sgt. Psychol. Asn. Psychotherapy; psychodiagnosis. Address: 35 Hetzel Rd, Buffalo, N.Y. 14221.

BROGDEN, PROF. H(UBERT) E(DWARD), b. Sydney, Australia, Oct. 9, 13; nat; m. 51. PSYCHOLOGY. A.B, Illinois, 35, Ph.D.(psychol), 39. Asst. psychol, Illinois, 36-39; instr, Ohio State, 39-40; res. psychologist, U.S. Army Personnel Res. Off, 43-53, chief scientist, 53-64; PROF. PSYCHOL, PURDUE, 64- Fel. Psychol. Asn; Psychomet. Soc.(pres, 56-57). Personnel selection and classification; test theory; quantitative methods. Publ: An approach to the problem of differential prediction & Variation in test validity with variation in the distribution of item difficulties, number of items and degree of their intercorrelation, Psychometrika; Statistical theory and research design, Annual Rev. Psychol. Address: Dept. of Psychology, Purdue University, West Lafayette, Ind. 47907.

BROGDEN, PROF. W(ILFRED) J(OHN), Psychol, see 11th ed, Phys. & Biol. Vols.

BROIDA, DR. ARTHUR L(IONEL), b. St. Louis, Mo, Aug. 13, 19; m. 48; c. 2. ECONOMICS. B.A, Chicago, 40, Ph.D.(econ), 63. Economist, Off. Price Admin, 41-42, 46-47; div. res. & statist, FED. RESERVE BD, 47-63, ASST. SECY, 63- Sig.C, U.S.A, 43-46. Econ. Asn. Monetary policy; government security markets. Publ: The financial position of consumers & Revised federal reserve monthly index of industrial production, Fed. Reserve Bull; Diffusion indexes, Am. Statistician. Address: 1942 Martha's Rd, Alexandria, Va. 22307.

BROIDA, DR. DANIEL C(ECIL), Psychol, see 10th ed, Soc. & Behav. Vols.

BROKAW, DR. LELAND D(IXON), b. Durham, Calif, Nov. 9, 19; m. 45; c. 3. PSYCHOLOGY. B.A, Wyoming, 44; M.A, Texas, 49, Ph.D, 58. Res. psychologist, Air Force Personnel Res. Lab, selection & classification, 46-64, occup. struct, 64-66, DIR. OPERS. OFF, U.S. AIR FORCE PERSONNEL RES. LAB, 66- U.S.A, 42-43; U.S.A.A.F, 43-46. Psychol. Asn. Personnel selection and classification; aptitude testing; computer applications. Publ: Comparative validities of short versus long tests, J. Appl. Psychol; Some statistical methods for detection of nonstandard test administration. Address: 9715 Carolwood Dr, San Antonio, Tex. 78213.

BROKENSHA, DR. DAVID WARWICK, b. Durban, S.Africa, May 23, 23. SOCIAL ANTHROPOLOGY. B.A, Rhodes S.Africa, 47; B.A, Cambridge, 49, M.A, 54; B.Litt, Oxford, 50, D.Philos.(soc. anthrop), 63. Dist. cmnr, Colonial Serv, Tanganyika, 51-56; registr, Dept. African Admin, City of Bulawayo, Rhodesia, 56-59; lectr. & tutor sociol. & soc. admin, Ghana, 59-63; ASSOC. PROF. ANTHROP, CALIFORNIA, SANTA BARBARA, 66- Asst. res. anthropologist, California, Berkeley, 63-66. S.African Corps Sig, 40-45. African Studies Asn.(ed, bull, 65 & 66); fel. Am. Anthrop. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. Social change, economic development and modernization in rural societies, especially sub-Saharan Africa; anthropology of development, ethnohistory. Publ: Social change at Larteh, Ghana, Clarendon, Eng, 66; Applied anthropology in English-speaking Africa, Soc. Appl. Anthrop, 66; co-auth, Community development: an interpretation, Chandler Pub, (in press). Address: 33 Loma Media, Santa Barbara, Calif. 93103.

BROKKEN, DR. RAY FRANKLIN, b. Fairfield, Iowa, May 2, 33; m. 58; c. 3. AGRICULTURAL ECONOMICS. B.S, Iowa State, 58, Ph.D.(agr. econ), 65. Agr. economist & U.S. Dept. Agr. collab, U.S. DEPT. AGR, Iowa State, 60-65, AGR. ECONOMIST, ECON. RES. SERV, OREGON STATE, 65- U.S.A, 53-55, Res, 55-61. Agr. Econ. Asn. Analysis of interregional competition and efficient regional adjustments in livestock and crop production in the United States. Publ: Co-auth, Regional changes in grain production, Iowa Agr. Exp. Sta, 64, Interregional adjustments in crop and livestock production, U.S. Dept. Agr, 67 & Contributions and problems in using linear programming for analyzing farm policy, West. Farm Econ. Asn. Proc, 67. Address: Economic Research Service, U.S. Dept. of Agriculture, Room 229 Extension Hall, Oregon State University, Corvallis, Ore. 97331.

BROMAGE, PROF. ARTHUR W(ATSON), b. East Windsor, Conn, Feb. 27, 04. POLITICAL SCIENCE. B.S, Wesleyan, 25; A.M, Harvard, 26, Ph.D, 28. Instr. govt, Harvard, 28-29; MICHIGAN, 28, acting asst. prof. POLIT. SCI, 29, asst. prof, 30-31, assoc. prof, 31-38, PROF, 38-, chmn. dept, 61-64. U.S.A, 43-46, Lt. Col. Polit. Sci. Asn; Soc. Pub. Admin; Int. City Managers Asn. American state and local government and administration; municipal government. Publ: State government and administration in the United States; Introduction to municipal government and administration; Political representation in metropolitan agencies, Univ. Michigan, 62. Address: 2300 Vinewood Blvd, Ann Arbor, Mich. 48104.

BROMAN, PROF. KEITH LeROY, b. Randolph, Wis, July 13, 22; m. 44; c. 2. FINANCE. M.B.A, Harvard, 47; Ph.D.(finance), Nebraska, 55. Instr. acct, Ohio, 47-51; finance, Nebraska, 51-54; asst. prof. acct, Wisconsin, 54-55; assoc. prof. FINANCE, NEBRASKA, 55-64, PROF, 64-, CHMN. DEPT, 68-

Summer fels, Ford Found, 59 & Found. Econ. Ed, 60 & 62. Consult, mem. firm New York Stock Exchange, 67- U.S.N.R, 42-46, Comdr. Am. Acct. Asn; Finance Asn. Investment research, particularly technical indicatives in the stock market. Publ: Investor overpricing of growth stocks 1960-1961, autumn 62 & Growth stock market behavior—1962, spring 64, Nebr. J. Econ. & Bus; Use of convertible subordinated debentures by industrial firms 1949-1959, Quart. Rev. Econ. & Bus, spring 63. Address: College of Business Administration, University of Nebraska, Lincoln, Nebr. 68508.

BROMER, DR. JOHN A(LBERT), b. Cedar Rapids, Iowa, June 12, 15; m. 34; c. 4. PSYCHOLOGY. A.B, Franklin & Marshall Col, 36; A.M, Wisconsin, 38, Ph.D.(psychol), 40. Instr. psychol, Purdue, 40-42, from asst. to assoc. prof, 46-48; sr. personnel asst, Prudential Ins. Co. Am, 48-49, asst. personnel dir, 49-53, personnel dir, 53-56; MGT. DEVELOP. COUNSR, LEVER BROS. CO, 56- U.S.N.R, 42-45, Lt. Comdr. Fel. Psychol. Asn. Personality and interpersonal relations; industrial psychology. Address: Lever Brothers Co, 390 Park Ave, New York, N.Y. 10022.

BROMER, DR. RICHARD F(RANK), b. Cedar Rapids, Iowa, Aug. 4, 20; m. 42; c. 3. PSYCHOLOGY. A.B, Franklin & Marshall Col, 42; M.A, Virginia, 42; Ph.D.(psychol), Purdue, 48. Staff psychologist, Psychol. Corp, 48-58; prof. psychol. & chmn. dept, Juniata Col, 58-59; MGR. CONSUMER PSYCHOL, BATTEN, BARTON, DURSTINE & OSBORN, INC, 59- Advertising psychology. Address: 115 Highland Ave, North Tarrytown, N.Y. 10591.

BROMILEY, DR. REG(INALD) B(ESWICKE), Physiol, see 11th ed, Phys. & Biol. Vols.

BROMKE, PROF. ADAM, b. Warsaw, Poland, July 11, 28; Can. citizen; m. 58; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. M.A, St. Andrews, 50; Ph.D.(Slavic studies), Montreal, 53; Ph.D.(polit. sci), McGill, 64. Res. fel, Harvard, 60-62; PROF. POLIT. SCI, CARLETON, (CAN), 62- Ed-in-chief, Polish Overseas Proj, Free Europe Cmt, New York, 55-56. Polish Underground Army, 43-45; Polish Forces under Brit. Command, 45-47, Commissioned Officer. Can. Asn. Slavists (v.pres, 66). East-West relations; Eastern Europe; Poland's politics. Publ: The Communist states at the crossroads, 65 & co-auth, The Communist states and the West, 67, Praeger; auth, Poland's politics: idealism vs. realism, Harvard, 67. Address: Dept. of Political Science, Carleton University, Ottawa 1, Ont, Can.

BROMLEY, DR. ANN (MRS. RALPH EASTWOOD), b. Troy, N.Y, Nov. 6, 22; m. 56; c. 2. PSYCHOLOGY. B.S, N.Y. State Col. Teachers, 43; M.A, Northwestern, 49, Ph.D.(guid, personnel), 54. Instr. & res. assoc. math, Illinois, 47-49, dean women, 49-57; dir. dept. psychol, Sunland Training Center, 57-66; ASSOC. DEAN STUDENT AFFAIRS, SANTA FE JR. COL, 66- Psychol. Asn; Nat. Asn. Women Deans & Counsr; Personnel & Guid. Asn; Col. Personnel Asn. Guidance and personnel; mathematics. Publ: Co-auth, Summary report of second annual workshop for teachers of mathematics at Galesburg; Predictability of success in mathematics. Address: 3210 N.W. 18th Place, Gainesville, Fla. 32601.

BRONFENBRENNER, PROF. M(ARTIN), b. Pittsburgh, Pa, Dec. 2, 14; m. 51; c. 2. ECONOMICS. A.B, Washington (St. Louis), 34; Ph.D, Chicago, 39; Northwestern, 39-41; Colorado, 43-44. Instr. econ, Roosevelt Col, 38-40; economist, U.S. Dept. Treasury, 40-41, 42-43; Fed. Reserve Bank, Chicago, Ill, 41-42, 46-47; assoc. prof. ECON, Roosevelt Col, 46-47; Wisconsin, 47-54, PROF, 54-57; Mich. State, 57-58; Minnesota, 59-62; CARNEGIE-MELLON UNIV, 62-, CHMN. DEPT, 66- Ford distinguished prof, Carnegie Inst. Tech, 63-64; Nat. Sci. Found. sr. fel, 66-67; vis. lectr. various U.S. & for. univs. Tax economist, Supreme Comdr. Allied Powers, Tokyo, Japan, 49-50. Econ. consult, Econ. Cmn. Asia & Far East, Bangkok, 52. Econ. Asn; Statist. Asn; Economet. Soc; Asn. Asian Studies. Theory and statistics, especially income distribution; econometrics; Far Eastern economic conditions and problems. Publ: Academic encounter; co-auth, Survey of inflation theory, Am. Econ. Rev, 9/63; auth, Monetary rules: a new look, J. Law & Econ, 10/65. Address: Graduate School of Industrial Administration, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

BRONFENBRENNER, PROF. URIE, b. Moscow, Russia, Apr. 29, 17; U.S. citizen; m; c. 6. PSYCHOLOGY. B.A, Cornell, 38; Ed.M, Harvard, 40; Bivin fel, Michigan, 41-42, Ph.D.(psychol), 42. Psychol. asst, Harvard, 39-40; psychologist, Michigan, 41-42; chief psychol. dept, Borden Gen. Hosp, Okla, 45-46; asst. chief res. & admin, Vet. Admin, Wash, D.C, 46-48; asst. prof. PSYCHOL, Michigan, 46-48; PROF, CORNELL, 48- Fel, Center Adv. Study Behav. Sci, 55-56. Mem. behav. sci. study sect, Nat. Insts. Health; Nat. Adv. Coun. Child Health & Human Develop, 62-66; soc. sci. adv. bd, U.S. Arms Control & Disarmament, Agency, 64-; planning cmt, Proj. Head Start, 65- Psychologist, U.S.A.A.F, 42-43: Off. Strategic Servs, 43-44; U.S.A, 42-46, 2nd Lt: U.S.P.H.S.R, Sr. Scientist. AAAS; fel. Psychol. Asn. Crosscultural studies; social perception; development of human behavior. Publ: Measurement of sociometric status, structure and development; co-auth, Talent and society. Address: Dept. of Child Development & Family Relationships, Cornell University, Ithaca, N.Y. 14850.

BRONG, DR. C(LARA) CORDELIA, Speech Path, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BRONNER, PROF. FREDERICK L, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRONSON, DR. FRANKLIN HERBERT, Zool, see 11th ed, Phys. & Biol. Vols.

BRONSON, PROF. GORDON WALLACE, b. Oakland, Calif, Apr. 2, 23; m. 52; c. 2. PSYCHOLOGY. B.S, California, 47, Ph.D.(psychol), 57. From instr. to asst. prof. PSYCHOL, MILLS COL, 56-62, PROF, 63- Nat. Sci. Found. Sci. faculty fel, Tavistock Child Develop. Res. Unit, London, 62-63. U.S.A, 46-47. AAAS; Psychol. Asn. Development psychology, especially the pre-school years; interdisciplinary perspective provided by convergence of neurophysiology, ethology, child development research and psychoanalytic theory. Publ: A neurological perspective on ego development in infancy, J. Am. Psychoanal. Asn, 1/63; The hierarchical organization of the central nervous system, Behav. Sci, 1/65; The development of fear in man and other animals, Child Develop, 6/68. Address: Dept. of Psychology, Mills College, Oakland, Calif. 94613.

BRONSON, DR. ZOLA, b. New York, N.Y, Mar. 15, 08; m; c. 3. SOCIAL SCIENCE. B.S. & B.S.S, City Col. New York, 30; Boys Club scholar, N.Y. Univ, 30-32, Gould scholar, 32-33, Ph.D.(soc. sci), 33; M.A, Chicago, 41. Regional analyst, defense health & welfare serv, U.S. Soc. Security Bd, Region VI, 41-42; asst. chief, coordination & planning office, br. off, U.S. Vet. Admin, 46-49; regional supvr, U.S. Bur. Census, 49-51, asst. chief budget mgt, 51-55, staff asst. to dir. off, 55-58; staff asst. to asst. dir, U.S. Bur. Budget, 58-59; PROG. DIR. SCI. ORGN. & MGT, NAT. SCI. FOUND, 59- Med.Admin.C, U.S.A, 42-46, Maj. Statist. Asn. Non-technical aspects of science organization and management for science policy planning; community organization planning and management. Publ: Digest of completed R on R studies, Nat. Sci. Found, 66; Instrumentation and the management of R&D, R/D Mag, 8/66. Address: National Science Foundation, Washington, D.C. 20550.

BROOK, DR. DAVID, b. New York, N.Y, Apr. 1, 32. POLITICAL SCIENCE. B.A, Hopkins, 54; M.A, Columbia, 55, Ph.D.(polit. sci), 61. Instr. polit. sci, St. John's, 61-63; lectr, Rutgers, 63-64; ASST. PROF. govt, Staten Island Community Col, 64-67; POLIT. SCI, JERSEY CITY STATE COL, 67- Co-adj. lectr, Rutgers, 64-67; mem. Inst. on UN, City Univ. New York, 67- Mem, Middle States Coun. Soc. Studies. Soc. Int. Law; Polit. Sci. Asn; Acad. Polit. Sci. International relations; United Nations; peace-keeping operations of United Nations; truce supervision organization in the Arab-Israel dispute; Chinese representation in the United Nations; American policy in Europe. Publ: The U.N. and the China dilemma, Vantage, 56; Preface to peace: the United Nations and the Arab-Israel armistice system, Pub. Affairs, 64; The problem of China's representation in the United Nations, J. E.Asiatic Studies, 56. Address: 135 Hawthorne St, Brooklyn, N.Y. 11225.

BROOKE, PROF. CLARKE H, b. Evanston, Ill, June 11, 20; m. 49; c. 3. GEOGRAPHY. B.A, Washington (Seattle), 42, M.A, 50; Ph.D, Nebraska, 56. Instr. GEOG, Govt. Col, Harar, Ethiopia, 52-54; PROF, PORTLAND STATE COL, 54- Nat. Sci. Found. grant, 60-61; Nat. Defense Ed. Act-Fulbright res. grant, 64-65; Fulbright lectr, Kabul, Afghanistan, 67-68. Asn. Am. Geog; Am. Geog. Soc; African Studies Asn. Land use in eastern Ethiopia; geographical aspects of food shortages in Tanzania; animal husbandry in Afghanistan. Publ: Durra complex in Ethiopia, Econ. Bot; The rural village in the Ethiopian Highlands, Geog. Rev; Types of food shortages in Tanzania, Geog. Rev, 10/67. Address: Dept. of Geography, Portland State College, Portland, Ore. 97207.

BROOKE, DR. DONALD LLOYD, b. Fremont, Nebr, June 30, 15; m. 47; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Florida, 40, fel. & M.S.A. 42; Gen. Ed. Bd. fel, Illinois, 51-52, Ph.D, 54. Jr. statistician, U.S. Farm Credit Admin, S.C, 41-42; economist, agr. exten. serv, FLORIDA, 46, assoc. agr. economist, EXP. STA, 46-62, AGR. ECONOMIST, 62- U.S.A.A.F, 42-45, Res, 45-65, Lt. Col. Agr. Econ. Asn. Farm management and costs; production economics; marketing. Address: Experiment Station, University of Florida, Gainesville, Fla. 32601.

BROOKE, MILTON, b. New York, N.Y, Feb. 6, 06; m. 39; c. 2. ECONOMICS. LL.B, Fordham, 28; Cornell, 29. Econ. researcher & practicing lawyer, 30-35; assoc. attorney, N.Y. regional off, Home Owners Loan Corp, 35-38; labor economist, U.S. Dept. Labor, 38-59, asst. chief div. state serv, bur. labor standards, 59-62, chief, 62-67; STAFF RESEARCHER, LABOR RELS. & RES. CENTER, MASSACHUSETTS, AMHERST, 67- Labor legislation and administration; labor economics. Publ: Social insurance, Brooklyn Law Rev; Guide to color prints; Attorney's fees in workmen's compensation, U.S. Dept. Labor, 9/60. Address: 53 Sunset Ave, Amherst, Mass. 01002.

BROOKER, DEAN MARVIN A(DEL), b. Bell, Fla, Sept. 8, 03; m. 26, 58; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Florida, 26, M.S, 27; Soc. Sci. Res. Coun. fel, Cornell, 28-29, Ph.D.(agr. mkt), 31. Asst. agr. economist, Florida, 27-31, assoc. agr. economist, 31-34; chief statistician, Farm Credit Admin, S.C, 34-39, dir. res, La, 41-46, comptroller, 46; v.pres. & secy, Columbia Bank Coop. 39-41; exec. secy, Price Decontrol Bd, 46-47; PROF. AGR. ECON, FLORIDA, 47-, DEAN COL. AGR, 56-, asst. dean, 55-56. Team leader, surv. agr. ed, S.Vietnam, 67. Agr. Econ. Asn. Statistics; marketing; farm management. Publ: A study of the cost of transportation of Florida citrus fruits with comparative costs from other producing areas; co-auth, Study of the cost of handling citrus fruit from the tree to the car in Florida & Factors influencing the method of transportation used in marketing Florida fresh citrus, Fla. Agr. Exp. Sta. Address: University of Florida College of Agriculture, Gainesville, Fla. 32603.

BROOKOVER, PROF. WILBUR B(ONE), b. Huntington Co, Ind, Mar. 30, 11; m. 37; c. 3. SOCIOLOGY, EDUCATION. A.B, Manchester Col, 33; Indiana, 35; A.M, Wisconsin, 39, Ph.D, 43. Instr. sociol, Ind. State Teachers Col, 41-43, 46; from asst. prof. to prof. soc. sci. & sociol, MICH. STATE, 46-57, PROF. sociol, 57-66, ED. & SOCIOL, 66-, ASST. DEAN RES. & PUBS, 57-, dir. soc. sci. teaching inst, 64-67. Lectr, Wisconsin, 46; Western Michigan, 66- U.S.N, 43-46. Sociol. Asn; Ed. Res. Asn. Sociology of education; social psychology; minority groups in American society. Publ: Co-auth, Self concept, ability and school achievement, Col. Ed. Mich. State Univ, 67, The sociological foundation of educability, Allyn & Bacon, 69 & The college student, Asn. Appl. Res. Ed, 65. Address: College of Education, Michigan State College, East Lansing, Mich. 48823.

BROOKS, PROF. BRUCE L(OYD), Agr. Econ, see 10th ed, Phys. & Biol. Vols. Latest known address: U.S./A.I.D, New York APO 09271.

BROOKS, DR. DAVID B(ARRY), b. North Easton, Mass, Feb. 15, 34; m. 55; c. 2. ECONOMICS, GEOLOGY. B.S, Mass. Inst. Tech, 55; Nat. Sci. Found. fel, Calif. Inst. Tech, 55-56, M.S, 56; Colorado, 58-61, Nat. Defense Ed. Act fel, 60-61, Ph.D.(econ), 63. Geologist, U.S. Geol. Surv, 56-58; instr. econ, Colorado, 61; res. assoc, Resources for the Future, 61-66; asst. prof. econ,

Berea Col, 66-67; CHIEF DIV. MINERAL ECON, BUR. MINES, U.S. DEPT. INTERIOR, 67- Consult, President's Coun. Econ. Adv, 64-; center for Appalachian studies & develop, Univ. West Virginia, 66-67; Appalachian Regional Cmn, 67- C.Eng, U.S.A.F, 57-, 1st Lt. Econ. Asn; Inst. Min, Metall. & Petrol. Eng. Economics of minerals as a natural resource and as basis for a sector of industry; environmental problems of the mining industry. Publ: Suppy and competition in minor metals, 65 & Low-grade and nonconventional sources of manganese, 66, Johns Hopkins; Strip-mine reclamation and economic analysis, Natural Resources, J, 1/66. Address: 5811 19th St. N, Arlington, Va. 22205.

BROOKS, DR. DETON J, JR, b. Chicago, Ill, Jan. 14, 09; m. 33; c. 1. SOCIOLOGY, EDUCATION. B.S, Chicago, 35, M.A, 37; M.A, Columbia, 56, Ed.D, 58. Teacher, elem. schs, Ill, 30-41, high schs, 41-44; war correspondent Far East, Chicago Defender Newspaper, 44-46, nat. & admin. officer, 47-48; from personnel dir. to exec. dir, New York Rent Cmn, 49-50; admin. asst. to cmn. welfare, N.Y. Dept. Welfare, 50-52; exec. v.chmn, Citizens' Planning Coun. New York, 52-53; orgn. consult, Welfare & Health Coun. New York, 53-54; ed. dir, N.Y. State Training Sch. Girls, 54-55; from res. asst. to res. assoc, Horace Mann-Lincoln Inst. Sch. Experimentation, Teachers Col, Columbia, 56-58; dir. res. & statist, Cook County Dept. Pub. Aid, 58-64; EXEC. DIR, CHICAGO CMT. URBAN OPPORTUNITY, 64- Res. assoc, sch. soc. work, Loyola (Ill), 61-64. Past & present mem. many nat, state & local cmts. & coun. on voc. ed, employ. & community improv. progs. Acad. Polit. & Soc. Sci; Pub. Welfare Asn; Soc. Pub. Admin; Statist. Asn; Int. Soc. Community Develop. Sociological, economic and educational research relative to causes of dependency; community studies; administrative research regarding implementation of Economic Opportunity Act. Publ: Co-auth, A guide for rating provisions for the gifted, Bur. Pub, Teachers Col, Columbia, 60; auth, A study to determine the possible impact of automation on a selected group of general assistance recipients in Chicago, Cook County Dept. Pub. Aid, 61 & The blackboard curtain: a study to determine the literacy level of able-bodied recipients receiving public assistance, Sci. Res. Assocs, 63. Address: Chicago Committee on Urban Opportunity, One N. Wacker Dr, Room 500, Chicago, Ill. 60606.

BROOKS, EARL, Personnel Admin, see 10th ed, Soc. & Behav. Vols.

BROOKS, DR. GEORGE EDWARD, JR, African Hist, World Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BROOKS, PROF. GEORGE H(ENRY), Indust. Eng, see 11th ed, Phys. & Biol. Vols.

BROOKS, DR. GEORGE W, b. Warren, Vt, Feb. 11, 20; m. 43; c. 4. PSYCHIATRY. B.S, New Hampshire, 41; M.D, Vermont, 44. Intern med, Mary Fletcher Hosp, 44-45; resident psychiat, Vt. State Hosp, 47-49, asst. physician, 49-51; resident med, N.H. State Hosp, 52; sr. psychiatrist, VT. STATE HOSP, 53-56, dir. res, 57-61, asst. supt, 61-68, SUPT, 68- Instr, Vermont, 53-57, asst. prof, 57-63, assoc. prof, 63-; Smith, Kline & French Found. fel, Mass. Ment. Health Center, Boston, 56-57. Med.C, A.U.S, 45-47, Capt. Am. Psychiat. Asn; Am. Med. Asn; Nat. Rehab. Asn. Biological and behavioral research; schizophrenia. Address: Vermont State Hospital, 103 S. Main St, Waterbury, Vt. 05676.

BROOKS, DR. GLENN E(LLIS), b. Kerrville, Tex, Aug. 6, 31; m. 53; c. 2. POLITICAL SCIENCE. B.A, Texas, 53, M.A, 56; Soc. Sci. Res. Coun. & Fels. Fund fels, Hopkins, 59-60, Ph.D.(polit. sci), 60. Sales mgr, Univ. Texas Press, 53-55; res. assoc, Cmt. Govt. & Higher Ed, 57-59; asst. prof. POLIT. SCI, COLO. COL, 60-64, ASSOC. PROF, 64- Vis. lectr, Univ. Col, Nairobi, Kenya, 67-68. Polit. Sci. Asn. American politics; national security policy; university administration; political education. Publ: When governors convene: the governors' conference and national politics; co-auth, Campus and the state; co-auth, The managerial revolution in higher education, Johns Hopkins, 67. Address: Dept. of Political Science, Colorado College, Colorado Springs, Colo. 80903.

BROOKS, DR. HUGH C, b. Seattle, Wash, June 19, 22; m. 50; c. 2. GEOGRAPHY. B.A, Washington (Seattle), 47; cert, Geneva, 48; M.A, Columbia, 51, Ed.D, 54; Fulbright fel, Witwatersrand, 53. Instr. geog, Ore. State Col, 50-51; teachers col, Columbia, 52-53; lectr, Witwatersrand, 54-57; assoc. prof, Newark State Col, 57-61; ASSOC. PROF. GEOG. & DIR. AFRICAN INST, ST. JOHN'S (N.Y), 61- U.S.A, 42-46. Asn. Am. Geog; African Studies Asn; Nat. Coun. Geog. Ed; Royal Geog. Soc; S.African Geog. Soc. Industrial development and resource utilization in sub-Sahara Africa; human resources through education and cultural change. Publ: Directed studies in geography; Guide to the geography of New Jersey; School integration and its relation to the distribution of Negroes in U.S. cities, Ed. Forum. Address: African Institute, St. John's University, Jamaica, N.Y. 11432.

BROOKS, DR. HUGH E(ARL), b. Castle Hill, Maine, Mar. 3, 25; m. 52; c. 6. SOCIOLOGY, SOCIAL PSYCHOLOGY. A.B, Merrimack Col, 52; M.A, Catholic Univ, 55, Ph.D.(sociol), 58. Lectr. sociol, Georgetown, 53-55; instr, Villanova, 55-58, asst. prof, 58-59; HUMAN FACTORS SCIENTIST, SYST. DEVELOP. CORP, 59- Instr, LaSalle Col, 56-59; summer, Catholic Univ, 55. U.S.M.C, 43-46, Sgt. Fel. Sociol. Asn; Research Soc. Population research; simulation and training related to air force personnel in air defense tasks under stress conditions. Publ: Co-auth, Empirical study of the relationships of Catholic practice and occupational mobility to fertility, Milbank Mem. Fund Quart. & Simulation: an introduction to a new technology. Address: 1476 Kirk Ave, Thousand Oaks, Calif. 91360.

BROOKS, PRES. JAMES EUGENE, b. Forest, Wash, Oct. 10, 25; m. 47; c. 5. GEOGRAPHY. B.A, Cent. Wash. State Col, 49; M.A, Washington (Seattle), 52, Ph.D.(geog), 57. Instr. geog, Cent. Wash. State Col, 52; geog. & geol, East. Wash. State Col, 53-54, asst. prof, 54-58; geog, Portland State Col, 58-59, asst. to pres, 59-61; PRES, CENT. WASH. STATE COL, 61- U.S.N.R, 43-46. Pacific Northwest geography; water resources; conservation of natural resources. Publ: Ed. & contrib. to Oregon Almanac and book of facts. Address: Central Washington State College, Ellensburg, Wash. 98926.

BROOKS, DR. KARL MICHAEL, b. Rockland, Maine, Aug. 17, 26; m. 63; c. 2. PSYCHOLOGY. B.A, Maine, 54, Nat. Sci. Found. fel, 60-61, M.A, 61; Ph.D. (psychol), Florida, 66. ASSOC. PROF. PSYCHOL, FLA. AGR. & MECH, 66- U.S.N, 44-46. AAAS; Psychol. Asn. The relationship between nutritional status and behavior. Address: Dept. of Psychology, Florida Agricultural & Mechanical University, Tallahassee, Fla. 32307.

BROOKS, PROF. KEITH, b. Tigerton, Wis, May 14, 23; m. 51; c. 2. COMMUNICATIONS. B.S. & M.S, Wisconsin, 49; Ph.D.(commun), Ohio State, 55. Instr. speech, East. Ky. State Col, 49-53; asst. prof. COMMUN, OHIO STATE, 56-61, assoc. prof, 61-65, PROF, 65-, CHMN. DEPT. SPEECH, 68-, dir. commun. area, 65-68. Consult, Procter & Gamble, 65-; Shaw Univ, 66- U.S.N, 46. Speech Asn; Soc. Study Commun. Variables of communication behavior, especially perception and the construction of measuring instruments. Publ: Co-auth, Practical speaking for the technical man, Prentice-Hall, 58 & The communicative act of oral interpretation, Allyn & Bacon, 67; ed, The communicative arts and sciences of speech, C.E. Merrill, 67. Address: Dept. of Speech, Ohio State University, 154 N. Oval Dr, Columbus, Ohio 43210.

BROOKS, PROF. LEE M(ARSHALL), b. Norwood, Mass, May 31, 91; m. 16; c. 1. SOCIOLOGY. A.B, Boston, 25; A.M, North Carolina, 26, Ph.D, 29. From instr. to asst. prof. SOCIOL, NORTH CAROLINA, 26-35, assoc. prof, 35-45, prof, 45-55, EMER. PROF, 55- Vis. prof, Ala. Col, 35-36; La. State, 40-41; Washington (Seattle), 45; Hawaii, 47-48, 55; prof, Whittier Col, 55-58. Sociol. Asn. Criminology; family; community; social movements. Publ: Co-auth, American society and the changing world; Church and community in the South; History of the Southern Sociological Society, Univ. Alabama, 62. Address: Webster, N.C. 28788.

BROOKS, DR. LEE RICHARD, b. Pensacola, Fla, July 2, 38; m. 60; c. 1. PSYCHOLOGY. B.A, Columbia, 60; M.Sc, Brown, 63, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, McMASTER, 64- Am. Psychol. Asn; Can. Psychol. Asn. Relations between verbal and non-verbal components of thought and memory. Publ: The suppression of visualization by reading, Quart. J. Exp. Psychol, 67; Spatial and verbal components of the act of recall, Can. J. Psychol, 68. Address: Dept. of Psychology, McMaster University, Hamilton, Ont, Can.

BROOKS, DR. LLOYD O(LIVER), b. Lincoln, Mo, Mar. 7, 27; m. 55; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, California, Los Angeles, 53; fel, Houston, 58-61, Ph.D.(exp. psychol), 61. Mem. staff, Assoc. Tel. Co, Calif, 47-50; res. asst. psychol, California, Los Angeles, 53-58; lab. & res. asst, Houston, 58-61; res. assoc. & instr. psychol, Arizona State, 61-62, asst. prof, 62-64; res. scientist, AM. INSTS. RES, 64-67, SR. RES. SCIENTIST, 67- Psychol. consult. programmed learning, Tempe, Ariz, 61-62. U.S.N, 45-46. AAAS; Ed. Res. Asn; Psychol. Asn. Programable conditions for improving learning and performance. Publ: Co-auth, The facilitation of problem solving by prior exposure to uncommon responses, J. Exp. Psychol, 56: 399-406; auth, Note on revising instructional programs, Psychol. Reports, 20; 117-118 & Response time during instruction, Perceptual & Motor Skills, 25: 203-204. Address: American Institutes for Research, P.O. Box 1113, Palo Alto, Calif. 94302.

BROOKS, DR. MAXWELL R(OY), Sociol, see 10th ed, Phys. & Biol. Vols. Latest known address: Morgan State College, Baltimore, Md. 21212.

BROOKS, PROF. MELVIN S(CHUBERT), b. Wapato, Wash, Apr. 15, 13; m. 36; c. 4. SOCIOLOGY. B.A, State Col. Wash, 35; M.S, Iowa State Col, 37; Ph.D. (rural sociol), Wisconsin, 41. Asst. state supvr. rural res, State of Wash, 35-36; asst. prof. rural sociol, Agr. & Mech. Col, Tex, 41-42, ASSOC. PROF, 46-56; SOCIOL, SOUTHERN ILLINOIS, 56- Assoc. rural sociologist, Regional Land Tenure Res. Proj, 42-43. U.S.A, 43-45. Sociol. Asn; Rural Sociol. Soc; Soc. Study Social Probs; Pop. Asn. Methodology; rural sociology; social psychology; population. Publ: Co-auth, Farm labor in the Yakima Valley, Washington, Wash. State Agr. Exp. Sta. Bull; Wisconsin birth and marriage rate trends by occupations, Am. Sociol. Rev; Social problems of migrant farm laborers: effect of migrant farm labor on the education of children. Address: Dept. of Sociology, Southern Illinois University, Carbondale, Ill. 62901.

BROOKS, PROF. NATHAN C(YRUS), b. Marietta, Okla, Feb. 15, 16. GEOGRAPHY. B.A, Southeast. State Col, 42; M.Ed, Oklahoma, 48, Ed.D, 56. Teacher, high schs, Okla, 42-57; asst. prof. GEOG, NORTHEAST. STATE COL, 57-62, PROF, 62- U.S.A, 42-46. AAAS; Asn. Am. Geog; Nat. Coun. Geog. Ed. Historical, political, economic and European geography. Address: Dept. of Geography, Northeastern State College, Tahlequah, Okla. 74464.

BROOKS, PROF. ROBERT C(RAIGHEAD), JR, b. Atlanta, Ga, Mar. 27, 27; m. 52; c. 3. ECONOMICS, MARKETING. A.B, Chicago, 46, M.B.A, 51, Ford Found. fel, 58-59, Ph.D.(mkt), 60. Instr. mkt, Ga. Inst. Tech, 51; mkt. analyst, Reynolds Metals Co, 52-54; asst. prof. mkt, Georgia, 54-58; BUS. ADMIN, VANDERBILT, 58-62, assoc. prof, 62-66, PROF, 66- Polit. opinion res. consult, Brock for Cong. & other campaigns, 62-; private consult, 62-; consult, area redevelop. admin, U.S. Dept. Commerce, 67-; bur. econ, Fed. Trade Cmn, 67- U.S.A, 46-47. Econ. Asn; Mkt. Asn. Government control of business; industrial organization; pricing; coordination of advertising and personal selling; businessmen's concepts of competition; ethics and business; changes in application of economic concepts in antitrust enforcement. Publ: Word-of-mouth advertising in selling new products, J. Mkt; Volume discounts as barriers to entry and access, J. Polit. Econ; Injury to competition, Univ. Pa. Law Rev. Address: Dept. of Economics & Business Administration, Vanderbilt University, Nashville, Tenn. 37203.

BROOKS, ROBERT McKAY, O.P, b. Green Bay, Wis, Sept. 16, 22. SOCIOLOGY. B.A, St. Norbert Col, 44; M.A, Notre Dame, 56, Ph.D.(sociol), 60. Asst. prof. SOCIOL, St. Norbert Col, 60-63; vis. prof, Loyola (La), 63-64; ASSOC. PROF, ST. NORBERT COL, 64- Vis. prof, Iberoamerican Univ, Mex, summers, 64 & 65; lectr, Univ. Wisconsin Center, Menasha, 66-67. Sociol. Asn; Soc. Sci. Study Relig. The structure and function of Catholic

seminaries; readjustment problems of former major seminarians. Publ: The sociological roots of the self image, Cath. Counsr, fall 63; Sociological dimensions of the seminary, In: Seminary education in a time of change, Fides, 65; Leakage from the church, In: New Catholic Encyclop, 67. Address: Dept. of Sociology, St. Norbert College, West De Pere, Wis. 54178.

BROOKS, PROF. ROBERT R. R, b. Rome, Italy, Dec. 5, 05. ECONOMICS. Ph.B, Wesleyan, 26; B.A, Oxford, 28; Ph.D, Yale, 35. Instr. indust. rels, Yale, 32-37; asst. prof. econ, WILLIAMS COL, 37-46, PROF. ECON. & DEAN, 46-, DIR. GRAD. STUDIES DEVELOP. ECON, 60- Cultural attaché, U.S. Embassy, New Delhi, India & chmn. bd. dirs, U.S. Ed. Found. in India, 63- Ed, Am. Rev, 63- President's Cert. of Merit, 47. Consult, War Prod. Bd, 41; nat. dir. labor off, Off. Price Admin, 42-45, dep. admin. info, 45-46. Labor relations; history of the United Textile Workers of America. Publ: Unions of their own choosing; co-auth, Williamstown, the first two hundred years, McClellam, 53; ed, American studies in India, U.S. Info. Serv, India, 65. Address: Dept. of Economics, Williams College, Williamstown, Mass. 01267.

BROOKS, PROF. ROZANNE MARIE, b. Williamsport, Pa, Oct. 20, 22. SOCIOLOGY. B.A, Pa. State, 44, Ph.D.(sociol), 57; M.A, Missouri, 51. Instr. sociol. & journalism, Mesa Col, 50-52; SOCIOL, Pa. State, 52-56; PROF. & CHMN. DEPT, STATE UNIV. N.Y. COL. CORTLAND, 56- Summers, State Univ. N.Y. fel, 59, res. fel, 66, grant-in-aid, 67; N.Y. State Dept. Ed-Cornell Latin-Am. seminar fel, 63 & 64, travel fel, Peru, 65. Sociol. Asn; Soc. Study Social Probs. Sociology of the never married. Publ: Woman's place is in the wrong, Vital Speeches. Address: R.D. 4, Lake Como, Cortland, N.Y. 13045.

BROOKS, DR. SHEILAGH T(HOMPSON), b. Tampico, Mex, Dec. 10, 23: nat; m. 51; c. 2. PHYSICAL ANTHROPOLOGY. B.A, California, 41, M.A, 44, fel. & Ph.D.(phys. anthrop), 51. Mus. preparator anthrop, California, Berkeley, 50, 52-53, jr. res. anthropologist, 53-55, assoc. trop. biogeog. grant to Mex, 55-57, jr. res. physiologist, 58-60, 61-63; asst. prof. ANTHROP, Colorado, 63-65; ASSOC. PROF, NEVADA SOUTHERN, 66- Smith Kline & French-Am. Anthrop. Asn. res. grant, Mex, 56-57; asst. prof, univ. col, Southern California, 59-61; prof, Pasadena City Col, 60-63; Nat. Sci. Found. res. grant, Sarawak, Malaysia, 66-68. Summers, lectr, Arizona State, 59, asst. prof, Nevada, 60 & 61. Anthrop. Asn; Soc. Vert. Paleont; fel. Asn. Phys. Anthrop; Brit. Soc. Study Human Biol. Osteological age differentiation. Publ: An archaeological scaphocephal from California, Am. J. Phys. Anthrop; Histological studies on fossil bone, J. Paleont; Process of fossilization, Southwest. J. Anthrop. Address: Dept. of Anthropology & Sociology, Nevada Southern University, Las Vegas, Nev. 89109.

BROOKS, DR. SYLVIA, b. Washington, D.C, May 24, 20. PSYCHOLOGY. B.A, Boston, 48; M.A, Wisconsin, 50; Ph.D.(child develop), Minnesota, 54. Intern psychol, State Psychol. Intern Training Prog, N.Y, 50-51; PSYCHOLOGIST, Upper Peninsula Child Guid. Center, State Dept. Ment. Health, Mich, 54-56; Children's Psychiat. Hosp, Ann Arbor, 56-57; N.CENT. MASS. MENT. HEALTH CENTER, STATE DEPT. MENT. HEALTH, FITCHBURG, 60- Psychol. Asn. Psychopathology; projective techniques; concept formation. Publ: Complexity of task and other situational variables as factors in rigidity behavior of fifteen-year-olds, J. Genetic Psychol, 97: 385-403. Address: 2 Ware St, Apt. 309, Cambridge, Mass. 02138.

BROOKS, DR. THOMAS M(ARION), b. Huntington, W.Va, Feb. 27, 29; m. 52; c. 4. FAMILY & CONSUMER ECONOMICS. B.S, Ohio State, 56; M.S, Pa. State, 58, Ph.D.(agr. econ), 61. Asst. agr. econ, Pa. State, 56-60, agr. economist, mkt. econ. div, econ. res. serv, U.S. Dept. Agr, D.C, 60-62; asst. prof. home mgt, Iowa State, 63-64; ASSOC. PROF. FAMILY ECON. & MGT. & HEAD DEPT, SCH. HOME ECON, CONNECTICUT, 64- Mem, Gov. Consumer Adv. Coun, Conn, 67-71; chmn, New Eng. Regional Res. Cmt. Family Econ. & Mgt, 67- U.S.A.F, 50-54, Sgt. Home Econ. Asn; Econ. Asn; Coun. Consumer Info.(treas, 68-69). Economics of consumption; consumer behavior; research methodology. Publ: Co-auth, Consumer's use of stewing chicken, Pa. State Prog. Report; auth, Food consumption under the food stamp program; Nat. Food Situation, NFS-105, U.S. Dept. Agr, 8/63; co-auth, Consumer preferences for selected types of food packaging, Bull. 714, Pa. State Univ. Agr. Exp. Sta, 8/64. Address: Dept. of Family Economics & Management, School of Home Economics, University of Connecticut, Storrs, Conn. 06268.

BROOKSHIRE, DR. KENNETH HAROLD, b. Akron, Ohio, May 4, 32; m. 55; c. 2. PSYCHOLOGY. B.A, Stanford, 54; M.S, Oregon, 56, U.S. Pub. Health Serv. fel, 57, Ph.D.(psychol), 58. Res. assoc. PSYCHOL, Stanford, 57-58; ASST. PROF, New Brunswick, 58-59; FRANKLIN & MARSHALL COL, 59-, CHMN. DEPT, 60- Fulbright fel, Turku, 65-66. AAAS; Psychol. Asn; Psychonomic Soc. Discrimination learning; behavioral and physiological effects of stress; taste preferences; thirst; aversive control of behavior. Publ: Figural after effects with tachistoscopic exposures; Residua of shock trauma in the white rat; Reversal and transfer learning following over training in rat and chicken. Address: Dept. of Psychology, Franklin & Marshall College, Lancaster, Pa. 17604.

BROOM, PROF. LEONARD, b. Boston, Mass, Nov. 8, 11; m. 40; c. 2. SOCIOLOGY, ANTHROPOLOGY. B.S, Boston, 33, A.M, 34; Ph.D.(sociol), Duke, 37. Instr. sociol, Kent State, 38-41; asst. prof, California, Los Angeles, 41-48, assoc. prof, 48-53, prof, 53-59, chmn. dept. anthrop. & sociol, 52-58; prof. SOCIOL, TEXAS, AUSTIN, 59-63, ASHBEL SMITH PROF, 63-, chmn. dept, 59-66. Fulbright fel, B.W.I, 50-51; Ford fel, 53-54; Guggenheim fel, 58; hon. fel, Australian Nat. Univ, 58, vis. prof, inst. adv. studies, 64-65; fel, Center Adv. Study Behav. Sci, 62-63. Ed, Am. Soc. Rev, 55-57. Sociol. Asn.(v.pres, 62-63); Am. Anthrop. Asn; Sociol. Res. Asn; Pop. Asn; Royal Anthrop. Inst. Gt. Brit. & Ireland. Publ: Co-auth, Transformation of the Negro American, 65, rev. ed, 67 & Sociology, 4th ed, 68, Harper; Validation of acculturation, Am. Anthrop, 55. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

BROOM, DR. M(YBERT) E(USTACE), Ed. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

BROOM, PROF. PERRY M(ORRIS), b. Effingham, Ill, Aug. 7, 08. BUSINESS ADMINISTRATION. B.S, Sam Houston State Teachers Col, 36; M.Ed, Texas, 38, univ. fel, 41-42, D.Ed, 42. Assoc. prof. ed, Howard Col, 45-47; prof. psychol. & ed, Franklin Col, 47-49; instr. bus. statist, Texas, 49-51; from assoc. prof. to PROF. BUS. ADMIN, EAST TEXAS STATE, 51- U.S.N.R, 42-45. AAAS; Psychol. Asn; Soc. Qual. Control; Mgt. Asn; Planning Asn; Inst. Mgt; Acad. Polit. & Soc. Sci; Statist. Asn. An interpretative analysis of economic and educational opportunities for Latin-Americans in Texas; commerce; statistics. Publ: Simplified business statistics. Address: Dept. of Business Administration, East Texas State University, East Texas State Station, Commerce, Tex. 75428.

BROOME, DR. CHARLES LARUE, b. Prentiss, Miss, May 26, 25; m. 51; c. 1. MARKETING, MANAGEMENT SCIENCE. B.S, La. State, 50, M.B.A, 61; Univac fel, Alabama, 61-63, Ph.D.(mkt), 64. Indust. engr, Gen. Gas Corp, La, 50-51; mgr-owner, farm equip. dealership, Miss, 51-54; prod. planning analyst, tractor div, Ford Motor Co, 54-56; mkt. analyst, Beaird Div, Am. Mach. & Foundry Co, La, 56-59; asst. prof. mgt, Texas Christian, 64-66; ASSOC. PROF. MKT, HOUSTON, 66- Summers, participant, Ford Found. faculty workshop, Carnegie Inst. Tech, 65, vis. assoc. prof, Mississippi, 67. U.S.A, 43-46, S/Sgt. Mkt. Asn; Statist. Asn. Decision making from the consumer as well as marketing management level. Publ: An analysis of the elasticities of demand for gasoline in Alabama, 1946-62, 65, co-auth, Experimental determination of the effect of price and market-standing, information on consumers' brand preferences, 66 & A laboratory experiment for establishing indifference points between brand of consumer products, 66, Proc. Am. Mkt. Asn. Address: Dept. of Marketing, University of Houston College of Business Administration, Houston, Tex. 77004.

BROOMHEAD, ELIZABETH, b. Providence, R.I, Apr. 12, 09. PSYCHOLOGY. M.A, Columbia, 32. Asst. state psychologist, State Pub. Welfare Cmn, R.I, 32-35; sch. psychologist, Bd. Ed, Rochester, N.Y, 35-43; clin. psychologist, U.S. NAVAL HOSP, Portsmouth, Va, 43-46, BETHESDA, MD, 46-47, CHIEF CLIN. PSYCHOLOGIST, NAT. NAVAL MED. CENTER, 47- Lectr, George Washington, 51; mem. faculty, Wash. Sch. Psychiat, 51- Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. U.S.N, 43-47, Lt. Psychol. Asn; Soc. Proj. Tech. Diagnostic evaluation; training and research in clinical psychology. Address: 8504 Rayburn Rd, Bethesda, Md. 20034.

BROPHY, DR. ALFRED L(AURENCE), b. Boston, Mass, Jan. 12, 32. PSYCHOLOGY. A.B, Harvard, 52; A.M, Columbia, 53, Ph.D.(psychol), 57. Intern psychol, Vet. Admin. Hosps, N.Y, N.J. & Mass, 53-57; clin. psychologist, U.S. Pub. Health Serv, D.C, 57-59; assoc. prof. psychol, Richmond Prfnl. Inst, Col. William & Mary, 59-61; asst. prof. ed. psychol, Illinois, Urbana, 61-64; assoc. prof, 64-67; ASSOC. PROF. PSYCHOL. & PSYCHOLOGIST, U.S. COAST GUARD ACAD, 67- U.S.P.H.S, 57-59, Res, 59-, Sr. Asst. Scientist. Psychol. Asn; Personnel & Guid. Asn. Vocational satisfaction; process of counseling and psychotherapy; personality theory. Publ: Self, role and satisfaction, Genetic Psychol. Monogr; Mail-order training in psychotherapy, Am. Psychol; Improving poor work adjustment through psychodiagnostic evaluation, Ment. Hyg. Address: Dept. of Psychology, U.S. Coast Guard Academy, New London, Conn. 06320.

BROPHY, PROF. JOHN M(ATTHEW), b. Milwaukee, Wis, Feb. 11, 10; m. 39; c. 9. BEHAVIORAL SCIENCE, INDUSTRIAL RELATIONS. B.S, Stout State Col, 38; M.Ed, Minnesota, 41; Ph.D.(indust. & labor rels), Cornell, 47. Instr. graphic arts, Stout State Col, 38-41; supvr. voc. ed. nat. defense, Wis. Bd. Voc. & Adult Ed, 42-45; res. asst, Cornell, 46-47, asst. prof, sch. indust. & labor rels, 47-50, assoc. prof, 50-57, prof. bus. admin. & chmn. dept, ROCHESTER, 57-58, dir. sch. bus. admin, 58-61, dean col. bus. admin, 61-63, PROF. BUS. ADMIN, 63- Vis. prof, Fla. State, summer sessions, 45-53; lectr, grad. sch. savings banking, Brown, 60- Consult, sch. eng. prog, N.Y. Tel. Co, Goshen, 51-60, Corning Glass Works, 53, supvry. develop. progs, Rochester Tel. Co. & Community Savings Bank, Rochester, N.Y. Coordinator, Monroe County Area Voc. Ed. Study, 63-65. Soc. Personnel Admin; Voc. Asn; Acad. Mgt; Indust. Rels. Res. Asn; Int. Soc. Labor Law & Social Legis. Vocational and technical education in education and industry, including impact of changing technology on work, workers and work organizations. Publ: Vocational and technical education in the Monroe County area, Voc. Ed. Study Center, Penfield, N.Y, 64; ed, Technology transfer and innovation in business and industry, Univ. Rochester, 67; auth, Demands of the technological economy on industry and implications for education, In: Quality and quantity in American education, Univ. Pennsylvania, 60. Address: College of Business Administration, University of Rochester, Rochester, N.Y. 14627.

BROPHY, SISTER MARY LIGUORI, B.V.M, b. Chicago, Ill. SOCIOLOGY. LL.B, De Paul, 23; A.B, Clarke Col, 28; A.M, Notre Dame, 32; Ph.D, Catholic Univ, 41. Attorney, Ill, 22-26; prof, Clarke Col, 28-34; PROF. SOCIOL, MUNDELEIN COL, 34- Lectr, Shiel Sch. Soc. Studies; asst, Brussels Res. Centre Nat. Library Paris, 61; prof, Al-Hikma Univ. Baghdad, 65-66. Fel. Sociol. Asn; Am. Soc. Int. Law. German language societies in the United States; prosecution and punishment of animals; social thought of German Roman Catholic Central Society of North America. Address: Dept. of Sociology, Mundelein College, Chicago, Ill. 60626.

BROSIN, DR. HENRY W(ALTER), Med, see 11th ed, Phys. & Biol. Vols.

BROSS, DR. IRWIN D(UDLEY) J(ACKSON), b. Halloway, Ohio, Nov. 13, 21; m. 49; c. 3. BIOSTATISTICS. B.A, California, Los Angeles, 42; M.A, N.C. State Col, 48; Ph.D.(statist), North Carolina, 49. Res. assoc. biostatist, Hopkins, 49-52; statist. consult. pub. health & prev. med, med. col, Cornell, 52-59, head res. design & anal. serv, Sloan-Kettering Inst, 55-59; DIR. BIOSTATIST, ROSWELL PARK MEM. INST, 59-; RES. PROF, STATE UNIV. N.Y. BUFFALO, 61- Sig.C, U.S.A, 42-46. AAAS; Asn. Cancer Res; Statist. Asn; Pub. Health Asn; Inst. Math. Statist; Biomet. Soc. Design of experiments; interpretation of studies; decision making; data utilization in biomedical research; control of major public health problems; scientific application of modern linguistics; scientific design and analysis of experiments. Publ: Design for decision, Macmillan, 53; Is toxicity really necessary?, Cancer, 12/66; Pertinency of an extraneous variable, J. Chronic

Disease, 67. Address: Roswell Park Memorial Institute, 666 Elm St, Buffalo, N.Y. 14203.

BROSS, PROF. JOHN R(OBERT), b. Jamaica, N.Y, May 19, 15; m. 41; c. 3. PSYCHOLOGY, PHILOSOPHY. A.B, Columbia, 37, Ph.D, 51; B.D, Chicago, 48. Prof. philos. & psychol, Talladega Col, 50-64; PROF. PSYCHOL. & DIR. GUID, ROCKY MT. COL, 64- Danforth scholar, 55. U.S.A.A.F, 42-45. Psychol Asn; Personnel & Guid. Asn. Psychology and religion; psychology of study and learning, especially at college level; progress in college made by college students, academic and general maturing. Publ: The role of creativity in metaphysics and religion, Univ. Microfilms; How to do the will of God, Advance. Address: Dept. of Guidance, Rocky Mountain College, Billings, Mont. 59102.

BROSSARD, DR. E(DGAR) B(ERNARD), Agr. Econ, see 10th ed, Soc. & Behav. Vols. Latest known address: 105 East on S. Temple St, Salt Lake City, Utah 84111.

BROTEMARKLE, PROF. R(OBERT) A(RCHIBALD), b. Lonaconing, Md, Nov. 12, 92; m. 18; c. 2. PSYCHOLOGY. A.B, Princeton, 16, A.M, 18; Ph.D. (psychol), Pennsylvania, 23. Instr. psychol, PENNSYLVANIA, 19-27, col. personnel officer, 26-43, asst. prof. PSYCHOL, 27-35, assoc. prof, 35-40, prof, 40-60, chmn. dept. & dir. psychol. lab. & clin, 43-57, EMER. PROF, 60- Prof. & dean faculty, Phila. Sch. for Christian Workers, 25-27. Expert consult, Secy. War, 41-45. Mem, emergency cmt. psychol, Nat. Res. Coun, 40-44. U.S.A, 18-19. AAAS; fel. Psychol. Asn. Personality; personnel; tests and measurements. Address: Apt. 2B, 294 Iven Ave, St. Davids, Pa. 19087.

BROTHERS, DR. DWIGHT STANLEY, b. Sterling, Kans, May 3, 29; m. 52; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Colo. Col, 51; Fulbright fel, Bristol, 51-52; M.A, Princeton, 54, Ph.D.(econ), 57. Instr. econ, Princeton, 54-56; from asst. prof. to prof, Rice, 56-67; LECTR. BUS. ADMIN. & ASSOC. DIR. DEVELOP. ADV. SERV, HARVARD, 67- Vis. prof, Brookings Inst, 61-62; Harvard, 65-67; Soc. Sci. Res. Coun. res. grant, summer 63. Mem. int. tech. coop. & assistance panel, President's Sci. Adv. Cmt, 66-67. Econ. Asn. Financial aspects of economic development; Mexican economic development; determinants of private foreign investment in Latin America; foreign technical assistance as a vehicle for promoting technological change in lesser developed countries. Publ: Co-auth, Mexican financial development, Univ. Texas, 66; Tax depreciation policy and public regulation of business, Land Econ, 11/57; Private foreign investment and Latin American development: some implications for the alliance for progress, In: Constructive change in Latin America, Univ. Pittsburgh, 68. Address: Development Advisory Service, Harvard University, 1737 Cambridge St, Cambridge, Mass. 02138.

BROTMAN, HERMAN B, b. Philadelphia, Pa, Apr. 30, 11; m. 34. GERONTOLOGY. B.S, City Col. New York, 31, fel, 31-32; American Univ. & George Washington, 31-39. Statistician, Bur. Labor Statist, 35-36; Soc. Security Bd, 36-40; chief reports unit, War Man-Power Cmn, 40-43; labor div, U.S. element, Allied Cmn. for Austria, 45-50; labor attache, U.S. Embassy, Vienna, 50-52; soc. ins. res. analyst, Soc. Security Admin, 52-56; chief res. & pub. spec. staff aging, off. secy, DEPT. HEALTH, ED. & WELFARE, 56-65, CHIEF REPORTS & ANAL, ADMIN. ON AGING, 65- U.S.A, 43-45. Statist. Asn; Indust. Rels. Res. Asn; Pub. Welfare Asn; Acad. Polit. & Soc. Sci; Geront. Soc. Psychological and social science research in gerontology. Address: 3108 Holmes Run Rd, Falls Church, Va. 22042.

BROTMAN, PROF. RICHARD, b. New York, N.Y, Dec. 6, 25; m. 50; c. 2. SOCIOLOGY. B.S, City Col. New York, 46, M.A, 47; Ph.D.(psychol), N.Y. Univ, 55. Area dir. community serv. div, City Col. New York, 49-61, assoc. prof. sociol, 50-61; PROF. PSYCHIAT, N.Y. MED. COL, 61- Clin. psychologist, State Reformatory, Bordentown, N.J, 49; group work supvr, City Youth Bd, N.Y, 49; vis. lectr, Barnard Col, 49- U.S.A.A.F, 43-46. Sociol. Asn; Adult Ed. Asn. Criminology and juvenile delinquency; community planning and mental health; narcotics addiction; alcoholism. Publ: An approach to treatment of the aggressive gang; The values of field experience to the student, professor, college and community; College-community relations in a tension area. Address: Dept. of Psychiatry, New York Medical College, New York, N.Y. 10029.

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BROVEDANI, DR. BRUNO, b. Udine, Italy, Sept. 18, 14; m. 52; c. 2. ECONOMICS. Dr, Venice, 38; M.A, Catholic Univ, 42. Economist, Int. Monetary Fund, 48-63; consult, Banca Nazionale del Lavoro, Rome, Italy, 63- Econ. adv, Govt. El Salvador, 50-51; Plan Cmt. Repub. Colombia, 55; prof. econ, Univ. El Salvador, 50-51. International trade; banking and money; problem of economic development. Publ: Italian trends—monthly letter, Banca Nazionale Arch, 6/63; On the implementation of monetary programs, 6/64 & Some observations on economic programming in Italy, 9/65, BNL Quart. Rev. Address: Viale SS Pietro E Paolo 21, Rome Italy.

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BROWER, DR. DANIEL ROBERTS, JR, Mod. Hist, Russian Area Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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BROWN, PROF. AUBREY J, Agr. Mkt, see 10th ed, Soc. & Behav. Vols, deceased 68.

BROWN, DR. BARRY W, Math. Biol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

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BROWN, D(AVID) M(ELDRUM), Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BROWN, PROF. DAVID S(PRINGER), b. Bangor, Maine, Dec. 27, 15; m. 43; c. 4. PUBLIC ADMINISTRATION, POLITICAL SCIENCE. A.B, Maine, 36; Ph.D, Syracuse, 55. Mem. staff, off. budget & finance, U.S. Dept. Agr, 40-42; asst. chief placement div, Civil Aeronaut. Admin, 46-48; mem. staff, Air Coordinating Cmt, 48-50; dep. dir. exec. secretariat, Econ. Coop. Admin, 50-52; exec. secy, Pub. Adv. Bd. Mutual Security, 52-53; asst. dir, Cmt. Nat. Trade Policy, 53-54; PROF. PUB. ADMIN, SCH. GOVT. & BUS. ADMIN, GEORGE WASHINGTON, 54-, coordinator, Air Force adv. mgt. prog, 54-61. Instr, U.S. Dept. Agr. Grad. Sch, 46-54; lectr, Walter Reed Hosp, 55-; dep. chief, Univ. Southern Calif. party pub. admin, Pakistan, 61-62. U.S.N, 42-45, Lt. Polit. Sci. Asn; Soc. Pub. Admin; Soc. Personnel Admin; Am. Acad. Policy development. Publ: Public advisory board in the federal government; Public advisory board as an instrument of government, Pub. Admin. Rev; Bell committee and the tariff study. Address: 6120 Vernon Terr, Alexandria, Va. 22307.

BROWN, DR. DAVID W(ILLIAM), b. Meriden, Conn, Nov. 10, 31; m. 56; c. 1. AGRICULTURAL ECONOMICS. B.S, Connecticut, 53; M.S, Cornell, 54; Ph.D.(agr. econ), Iowa State, 56. Asst. agr. econ, Cornell, 53-54; econ, Iowa State, 54-56; asst. prof. agr. econ, Tennessee, 56-57, assoc. prof, 57-58; vis. prof, Univ. Malaya, 58-60; exten. economist, Agr. & Mech. Col, Tex, 61-62, asst. to dean agr, 62-63; vis. assoc. prof. econ, Iowa State, 63-65, vis. prof, 65-68; PROF. INT. AGR. ECON, TENNESSEE, 68- Agr. develop. adv, Iowa Univ-Agency Int. Develop. contract, Peru, 63-65, chief party, 65-66. Agr. Econ. Asn; Int. Asn. Agr. Econ; Soc. Int. Develop; Econ. Asn; Acad. Polit. & Soc. Sci. Economics of agricultural production; rural area development; foreign agriculture; rural economics educational and research programs. Publ: Co-auth, Organizational problems of small watersheds, Tenn. Agr. Exp. Bull; General framework for decision-making in agriculture and Reconnaissance study of farming organization in a coastal area of West Johore, Malaya, Coun. Econ. & Cultural Affairs Paper. Address: Dept. of Agricultural Economics & Rural Sociology, University of Tennessee, Knoxville, Tenn. 37916.

BROWN, PROF. DONALD E, b. Gibson, Iowa, Dec. 4, 09; m. 32; c. 2. MASS COMMUNICATION. B.A, Iowa, 38, M.A, 43. Teacher, pub. schs, Iowa, 28-34; instr. journalism, Iowa, 43-44; news ed, Radio Sta. WHO, Iowa, 44-47; assoc. prof. MASS COMMUN, Illinois, 47-63; PROF. & CHMN. DEPT, ARIZONA STATE, 63- Lectr, journalism conf, Univ. Strasbourg, 59. Consult, Indian Community Action Prog, 67-68. Chmn, Nat. Coun. Radio & TV Journalism, 54-56 & 58-59; mem, Cmt. Sec. Sch. Journalism, 58-62, chmn, 61-62. Asn. Ed. Journalism; Soc. Journalism Sch. Administr.(v.pres, 67-68). Radio news broadcasting techniques; pronunciation of place names; effects of mass media upon society; high school journalism instruction. Publ: Co-auth, Radio and television news, Holt, 54 & Pronunciation guide for Illinois place names, Univ. Illinois, 57; auth, How America gets its news, Rand McNally, 67. Address: Dept. of Mass Communications, Arizona State University, Tempe, Ariz. 85281.

BROWN, PROF. D(ONALD) MACKENZIE, b. Nebr, Jan. 21, 08; m. 41; c. 2. POLITICAL SCIENCE. Ph.D.(polit. sci), Stanford, 35. Asst. prof. polit. sci, Occidental Col, 36-39; from prof. to EMER. PROF. S.ASIAN STUDIES, CALIFORNIA, SANTA BARBARA, 39- Watumull prize, Am. Hist. Asn, 54. Oriental Soc; Asn. Asian Studies; Indian Polit. Sci. Asn. Indian and South Asia; Far East; political theory. Publ: The white umbrella, Indian political thought, from Manu to Gandhi; China trade days, selected letters from the Thompson Papers; The Nationalist Movement—Indian political thought from Ranade to Bhave. Address: Dept. of Political Science, University of California, Santa Barbara, Calif. 93106.

BROWN, PROF. DONALD P(ERL), b. Dix, Ill, Jan. 29, 05; m. 39; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Northwestern, 30, M.A, 40; Ph.D.(pub. admin), American Univ, 52. Admin. analyst budget & orgn. planning, Off. Price Admin, D.C, 43-46; mgt. analyst liquidation planning, UNRRA, 46-47; instr. govt, Maryland, 47-48; asst. prof, American Univ, 48-50; exec. dir. library orgn, State Bookmobile Proj, Ky, 53-54; fiscal officer budget & acct, State Dept. Welfare, 54-56; bus. mgr, Union Col.(Ky), 57-58; PROF. POLIT. SCI, ILL. WESLEYAN, 58-, CHMN. DEPT, 66- Chief res. div, State Dept. Econ. Develop, Ky, 49-53; summer participant, Fulbright seminar Egyptian Civilization, U.A.R, 65. Polit. Sci. Asn; Soc. Pub. Admin; Mid. East Inst. Budget and organization planning; industrial development; teaching in legislative and administrative processes: state, national and international administration; Middle East affairs. Publ: Ed, Economic atlas of Kentucky. Address: Dept. of Political Science, Illinois Wesleyan University, Bloomington, Ill. 61701.

BROWN, DR. DONALD R(AY), b. Evansville, Ind, Jan. 7, 35; m. 59; c. 1. EXPERIMENTAL PSYCHOLOGY. B.S, Purdue, 57, F.C. Babcock fel, 57-59, M.S, 59, Nat. Sci. Found. fel, 59-61, Ph.D.(psychol), 61. Teaching asst, Purdue, 57-59; asst. prof. psychol. & res. assoc, lab. aviation psychol, Ohio State, 61-62; asst. prof. PSYCHOL, PURDUE, 62-64, assoc. prof, 64-68, PROF, 68-, ASST. DEAN GRAD. SCH, 67- Nat. Inst. Child Health & Human Develop. res. grant, 64-69. U.S.A, 59-60, 1st Lt. AAAS; Psychol. Asn; Gesellschaft Unendliche Versuche. Pattern perception; psychophysics; quantitative methodology. Publ: Co-auth, The metrics of visual form: methodological dyspepsia, Psychol. Bull, 67. Address: Dept. of Psychology, Purdue University, Lafayette, Ind. 47907.

BROWN, PROF. DONALD R(OBERT), b. Albany, N.Y, Mar. 5, 25; m. 45; c. 3. PSYCHOLOGY. A.B, Harvard, 48; M.A, California, 51, Ph.D.(psychol), 51. Res. psychologist, Worcester Found. Exp. Biol. & Worcester State Hosp, Mass, 48; asst, med. sch, California, 50, inst. personality assessment, 50-51; asst. prof. psychol, Bryn Mawr Col, 51-57, assoc. prof, 57-64; PROF. PSYCHOL. & RES. ASSOC, CENTER RES. LEARNING & TEACHING, MICHIGAN, 64- Sr. staff engr, labs. for res. & develop, Franklin Inst, 55-57; vis. prof, Swarthmore Col, 56-57, 60; fel, Center Adv. Study Behav. Sci, 60-61; summer prof, California, 61. Res. consult, Mellon Found, Vassar Col, 52-; consult, Peace Corps, 65- U.S.A, 43-46. AAAS; fel. Psychol. Asn. Cognition and perception; personality theory and assessment; social psychology. Publ: Changing role and status of women in Soviet Russia, Teachers Col. Press, 67; Stimulus similarity and the anchoring of subjective scales of judgment; Word frequencies and the measurement of value areas. Address: University of Michigan, Ann Arbor, Mich. 48104.

BROWN, DR. DONALD V(AUGHN), b. Kansas City, Mo, Feb. 24, 28; m. 48; c. 3. PSYCHOLOGY. B.A, Univ. Kansas City, 49, M.A, 50, U.S. Pub. Health Serv. grant, 51-53; Ph.D.(psychol), Purdue, 56. Intern clin. psychol, State Hosp, St. Joseph, Mo, 50-51; trainee counseling psychol, Vet. Admin, Ind, 54-55; instr. psychol, med. center, Indiana, 55-56; training specialist, Rand Corp, 56-57; human factors scientist, Syst. Develop. Corp, Santa Monica, 57-58, sr. human factors scientist, 58-62, training consult. & field rep, U.S. Air Defense Command, Mo, 57-60, tech. asst, hosp. automation res. proj, 60-61, dir. info. center, 61-62; coordinator res. support & anal, Vet. Admin, 62-66; DEP. ASSOC. DIR, VOLS. IN SERV. TO AM, OFF. ECON. OPPORTUNITY, 66- U.S.N.R, 45-47. Psychol. Asn. Man machine relationships; problems in analysis and design of complex man machine systems; assessment of individual capacities; group process and interaction. Publ: Co-auth, Assessment of round table psychotherapy, Psychol. Monogr. Address: 6610 N. 25th St, Arlington, Va. 22213.

BROWN, PROF. DONALD W(AYNE), b. Paradise, Kans, May 30, 20; m. 43; c. 3. BUSINESS ADMINISTRATION. B.S, Kans. State Col, 42; M.B.A, Denver, 46. Asst. prof. acct, Drake, 47-51; assoc. prof. INDUST. ADMIN, IOWA STATE, 51-58, PROF, 58- U.S.A.A.F, 42-46, Maj. Am. Acct. Asn; Financial Exec. Inst; Nat. Asn. Acct. Industrial accounting; taxes; controllership. Address: 2521 Northwood Dr, Ames, Iowa 50010.

BROWN, DR. DORRIS D(UDLEY), b. Richmond, Mo, Oct. 14, 11; m. 35; c. 5. PUBLIC ADMINISTRATION. B.S, Missouri, 35, M.S, 48; M.P.A, Harvard, 50, Carnegie fel, 50-51, D.P.A, 52. Farm mgt. & dairy mkt. specialist, N.C. State Col, 50-55; milk mkt. economist, Mutual Fedn. Ind. Coops, 55-59; consult, Ford Found. & Govt. India, 59-67; RES. ASSOC. AGR. DEVELOP. IN INDIA, HARVARD, 67- Consult, Coop. League Am, U.S. Agency Int. Develop. & agr. econ. dept, Cornell. Mkt. Asn; Agr. Econ. Asn. Milk marketing; farm management. Publ: Demand for fertilizer in India, 65 & Improving the marketing of rice in India, 66, Govt. India; Balanced farming in Missouri. Address: 14 Academy St, Skaneateles, N.Y. 13152.

BROWN, PROF. E. EVAN, b. Elizabeth, Pa, Feb. 4, 26; m. 50; c. 2. AGRICULTURAL ECONOMICS, ECONOMIC DEVELOPMENT. B.S, Pa. State, 49, M.S, 52; Ph.D.(agr. econ), Florida, 56. Field asst. agr. econ, Florida, 52-54; assoc. prof, Clemson, 54-59; self-employed, 59-63; assoc. prof. AGR. ECON, GEORGIA, 63-64, PROF, 67- Counsr, Oak Ridge Assoc. Univs, 66-; fel, Case, 67. U.S.A, 46-48, Sgt. Am. Agr. Econ. Asn; Can. Agr. Econ. Soc. Economic development and marketing in agri-business. Publ: Co-auth, The economic feasibility of egg breaking in Georgia, 66, The role of agriculture and agribusiness in the economic development of Northeast Georgia, 67 & Potentials for growth in Georgia's food, forest, and recreation industries, 67, Ga. Exp. Sta. Address: Dept. of Agricultural Economics, University of Georgia, Athens, Ga. 30601.

BROWN, PROF. EARL C(LEMENT), b. Sioux Falls, S.Dak, July 23, 26; m. 49; c. 3. CLINICAL PSYCHOLOGY. B.A, Denver, 49, M.A, 50; Ph.D.(clin. psychol), Purdue, 53. Instr, univ. center, Purdue, 52-53; asst. chief, clin. psychol. sect, Vet. Admin. Center, Wadsworth, Kans, 53-55, chief, 55-57; psychol. serv, Vet. Admin. Hosp, Tuscaloosa, Ala, 57-58; area chief, Vet. Admin. Area Med. Off, Columbus, Ohio 58-59; assoc. prof, Emory, 59-61; dir. clin. studies, dept. psychol, Alabama, 61-62, prof. PSYCHOL, 61-65, chmn. dept, 62-65; PROF. & CHMN. DEPT, GA. STATE COL, 65- Instr, exten. div, Kansas, 55-56, lectr, univ, 55-57; assoc, Nordi, Wilson Assocs, 60-; chief psychol. serv, Vet. Admin. Hosp, Tuscaloosa; Muscle Shoals Ment. Health Center, 62; exec. dir, Inst. Psychol. Serv, Inc, 65- Consult. mgt. develop, Am. Tel. & Tel. Area Off, Atlanta, Ga, 64-65. Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. U.S.A, 44-46, Med.Serv.C.Res, 57-64, Capt. Fel. Psychol. Asn. Personality; acquaintance process; ethics and human values. Publ: Trail making test as a screening device for the detection of brain damage, J. Consult. Psychol; Evaluation of a psychotherapy case in terms of change in a relevant behavior, J. Clin. Psychol; co-auth, Programmed interpersonal relationships improvement: objective benefits to college students, J. Programmed Instr, 66. Address: 1042 Lullwater Rd, Atlanta, Ga. 30307.

BROWN, DR. EARL HOWARD, b. Ft. Wayne, Ind, May 3, 31; wid; c. 2. BUSINESS MANAGEMENT, MARKETING. B.S, Minnesota, 56, M.S, 57; Ph.D. (bus. mkt), Mich. State, 61. Asst. instr. mkt, Minnesota, 55-56, res. asst, 56-57; food mkt. specialist, Mich. State, 57-61, asst. prof, mkt, 61-63; ASSOC. PROF. MGT. & MKT, CORNELL, 63- Mass Merchandising Res. Found. res. grant, 67-69. U.S.A, 51-52, Sgt. Agr. Econ. Asn; Mkt. Asn; Mgt. Asn. Food marketing. Publ: Analysis of store deliveries, 64, An analysis of grocery shipments from grocery manufacturers to food chain warehouses, 65 & Executive development in retail food chains, 67, N.Y. Col. Agr. Address: 205 Warren Hall, Cornell University, Ithaca, N.Y. 14850.

BROWN, PROF. E(DGAR) CARY, b. Bakersfield, Calif, Apr. 14, 16; m. 37; div; c. 2. ECONOMICS. B.S, California, 37, fel, 37-39; fel, Harvard, 41-42, Ph.D, 48. Asst. economist, War Prod. Bd, 40-41; econ. analyst, U.S. Treasury Dept, 42-47; asst. prof. ECON, MASS. INST. TECH, 47-51, assoc. prof, 51-57, PROF, 58-, HEAD DEPT, 65- Vis. prof, Yale, 53-54; Ford Found. faculty fel, 56-57; Guggenheim fel, 57; vis. prof, Chicago, 63-64. Consult, U.S. Treasury Dept; Twentieth Century Fund; Cmt. for Econ. Develop; Joint Econ. Cmt; Coun. Econ. Adv; Brookings Inst; Nat. Cmt. Govt. Finance; Dept. Health, Ed. & Welfare. Acting ed, Nat. Tax J, 58-59. Am. Econ. Asn; Int. Inst. Pub. Finance; Nat. Bur. Econ. Res; Am. Acad. Arts & Sci; Royal Econ. Soc; Nat. Tax Asn. Income analysis; fiscal policy; business cycles. Publ: Effects of taxation, depreciation adjustments for price changes, 52; co-auth, Financing defense, 20th Century, 51; Studies in stabilization policy, Brookings, 68. Address: Dept. of Economics, Massachusetts Institute of Technology, 50 Memorial Dr, Cambridge, Mass. 02139.

BROWN, PROF. E(LMER) J(AY), b. South Elgin, Ill, July 31, 86; m. 18; c. 1. ECONOMICS. B.S, Greenville Col, 08; fel, Illinois, 08-11, Ph.D, 11. Instr, Pa. State Col, 11-13; asst. prof. econ, Oreg. Agr. Col, 13-15, assoc. prof, 15-16; PROF. ECON, ARIZONA, 16-, EMER. DEAN COL. BUS. & PUB. ADMIN, 58-, dean, 43-58, dir. sch. bus. & pub. admin, 34-43. Lectr, California, 29-30. Econ. Asn. Publ: An outline of economics; Syllabus of business organization and management. Address: College of Business & Public Administration, University of Arizona, Tucson, Ariz. 85721.

BROWN, PROF. EMILY CLARK, b. Minneapolis, Minn, Oct. 15, 95. ECONOMICS. A.B, Carleton Col, 17, LL.D, 67; A.M, Chicago, 23, Ph.D, 27. Asst, United Typothetae Am, 20-25; Soc. Sci. Res. Coun. fel, 27-28; assoc. indust. economist, U.S. Women's Bur, 29; asst. prof. ECON, Wellesley Col, 29-32; from asst. prof. to prof, VASSAR COL, 32-61, EMER. PROF, 61- Operating analyst, Nat. Labor Rel. Bd, 42-44. Econ. Asn; Indust. Rel. Res. Asn; Asn. Adv. Slavic Studies. Collective bargaining; national labor policy; labor in Soviet Union. Publ: Book and job printing in Chicago; co-auth, From the Wagner Act to Taft-Hartley; Soviet trade unions and labor relations, Harvard 66. Address: 4327 Abbott Ave. S, Minneapolis, Minn. 55410.

BROWN, PROF. E(MORY) J(OHN), b. Pa, Aug. 2, 21; m. 49; c. 1. RURAL SOCIOLOGY. Ph.D.(sociol), Mich. State, 52. From asst. prof. to PROF. RURAL SOCIOL. & EXTEN. STUDIES, PA. STATE, 52- Nat. Sci. Found. sr. fel, California, Berkeley, 65-66. U.S.A.A.F, 42-45. Sociol. Asn; Rural Sociol. Soc; Soc. Study Social Probs; Adult Ed. Asn. Formal organization and social participation. Publ: The self as related to formal participation & co-auth, Role consensus and satisfaction of extension advisory committee members, 61, Rural Sociol; 4-H in urban areas, Nat. 4-H Found, 64. Address: 204 Weaver Bldg, Pennsylvania State University, University Park, Pa. 16802.

BROWN, DR. ESTHER LUCILE, b. Manchester, N.H, May 2, 98. ANTHROPOLOGY, SOCIOLOGY. B.A, New Hampshire, 20; Ph.D.(anthrop, sociol), Yale, 29; hon. LL.D, Skidmore Col, 49. Head dept. hist, Peace Jr. Col, 24-26; asst. prof. sociol, New Hampshire, 26-29; Soc. Sci. Res. Coun. fel, France, 29-30; res. assoc, Russell Sage Found, 30-45, dir. dept. studies in professions, 45-48, exec. prog. planning & develop, 48-64; CONSULT. PSYCHOSOC. ASPECTS PATIENT CARE, 64- Dir. univ. & community rel, sch. nursing, Boston Univ, 56-59. Consult, WHO, Switz, 52-53; spec. proj. nursing innovations, Nat. League Nursing, 67-69. Sociol. Asn; Soc. Appl. Anthrop. Professions as social institutions; applications of social science concepts and methods of research to medical and health services. Publ: Lawyers, law schools, and the public service; Nursing for the future; Newer dimensions of patient care. Address: 1980 Washington St, San Francisco, Calif. 94109.

BROWN, PROF. EVERETT S(OMERVILLE), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 64.

BROWN, DR. FLORENCE R, b. Cairo, Ill, Dec. 6, 12; div; c. 1. SOCIOLOGY. A.B, Fisk, 33; M.A, Illinois, 36, M.S, 39, Ph.D.(sociol), 51; Rosenwald fel, Columbia, 40-41; St. Louis & Washington (St. Louis), 51, 53, 55, 66-67 & summer 66; Southern Illinois, 67. Instr. soc. scis, Fayetteville State Teachers Col, 36-45; acting chmn. dept. Lincoln (Mo), 45-47; res. analyst, City Planning Cmn, Urbana, Ill, 49; assoc. prof. sociol, Stowe Teachers Col, 49-54; prof, Harris Teachers Col, 54-63; Forest Park Community Col, 63-64; PROF. BEHAV. SCI. & CHMN. DEPT, MERAMEC COMMUNITY COL, 64- Guest prof. & consult, prin. workshop, Tuskegee Inst, 52-55; ed. specialist, U.S. Agency Int. Develop, Liberia, Africa, 60-62. Summers, Lectr, sch. nursing, Barnes & Jewish Hosp, St. Louis, Mo, 64; Ford Found. grant, Georgetown, 64; lectr, Am. Youth Found. Leadership Proj, Camp Miniwanca, Mich, 65; prof, Mark Twain Summer Inst, Clayton, Mo, 65- Mem, Nat. Coun. Soc. Studies 64-; chmn, Cultural Affairs Cmt, Monrovia, W.Africa, 62; mem, coun. world tension, Inst. Man & Sci, 64- Award, Nat. Urban League; John Gunther Nat. Ed. award, 61. Sociol. Asn. Demographic study of the first national census of Liberia, West Africa. Address: Meramec Community College, 959 S. Geyer Rd, St. Louis, Mo. 63122.

BROWN, PROF. FORREST DUMONT, b. Sylvia, Kans, Apr. 3, 07; m. 26; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Ft. Hays Kansas State Col, 29, M.S, 30; scholar, Cincinnati, 30, fel, 31-32, Ph.D.(ed), 33. Instr. psychol. & soc. sci, Wilmington Col, 33-34; prin, pub. schs, Ky, 35-37; assoc. prof. psychol. & ed, Mary Baldwin Col, 37-39; dean col, Simpson Col, 39-47; dean students, FRESNO STATE COL, 47-57, PROF. ED, 57- Vis. scholar, California, 60. Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. U.S.N, 42-46, Res, 47-, Comdr. Psychol. Asn. Address: Dept. of Educational Psychology, Fresno State College, Fresno, Calif. 93726.

BROWN, DR. FRANCIS E(ARL), b. West Chester, Pa, May 17, 23; m. 49; c. 4. MARKETING, STATISTICS. B.S, Bethany Col.(W.Va), 49; M.B.A, Pennsylvania, 51, Ph.D.(econ), 59. Instr. statist, PENNSYLVANIA, 51-58, asst. prof, 58-65, MKT. & STATIST, 65-, ASSOC. PROF, 66- Vis. prof, Florida Atlantic, 67-68; Sperry & Hutchinson res. grant, 65-; Ford Found. faculty res. grant, 66-67. Mkt. Asn; Statist. Asn; Inst. Mgt. Sci. Market research; sampling. Publ: Co-auth, A study of mutual funds, U.S. Govt. Printing Off, 63 & Basic statistics with business applications, Wiley, 66; auth, Price movements following the discontinuance of trading stamps, J. Retailing, fall 67. Address: Dept. of Marketing, University of Pennsylvania, Philadelphia, Pa. 19104.

BROWN, DR. FRED, b. Pressburg, Hungary, May 18, 05; U.S. citizen; m. 38; c. 2. PSYCHOLOGY. A.B, Ohio State, 29, M.A, 30, Ph.D.(psychol), 33. Asst. instr, Ohio State, 31-33; psychoclinician, State Bur. Juvenile Res, Ohio, 33-34; psychologist, Alfred Willson Children's Center, 34-36; asst. prof. psychol. & dir. psychoed. clin, Pa. State, 36-37; chief psychologist, pub. schs, Minn, 37-43; from clin. psychologist to CHIEF PSYCHOLOGIST, MT. SINAI HOSP, 46-, PROF. PSYCHIAT, MT. SINAI SCH. MED, 67- Prof. lectr, Minnesota, 38-39; from prof. lectr. to adj. prof, N.Y. Univ, 46- Diag. consult, E. Orange Vet. Admin. Hosp, 59- U.S.A.A.F, 43-46, Maj. Fel. Psychol. Asn; fel. Soc. Proj. Tech; Psychosom. Soc. Personality measurement; psychosomatic medicine; projective techniques. Publ: Co-ed, Training for clinical psychology; Exploratory study of psychodynamic factors in the content of the Rorschach protocol; Present status of Rorschach test interpretation. Address: Mt. Sinai Hospital, 1440 Madison Ave, New York, N.Y. 10029.

BROWN, DR. FRED R, b. Philadelphia, Pa, Oct. 12, 16; m. 50; c. 1. POLITICAL SCIENCE. A.B, Pennsylvania, 37, M.S.Ed, 41, Ph.D.(polit. sci), 59. Assoc. dir. med. finance study, Pennsylvania, 55-57; soc. sci. analyst, Dept. Health, Ed. & Welfare, 57-59; chief unit mgt. res, Fed. Aviation Agency, 59-61; ed. specialist nat. security, Indust. Col. Armed Forces, 61-62; pub. admin. officer, Africa aid progs, U.S. Agency Int. Develop, 62-64; sr. mgt. analyst, U.S. Dept. Commerce, 64-65; PROF. MGT, INDUST. COL. ARMED FORCES, 65- Polit. Sci. Asn; Soc. Pub. Admin; Acad. Mgt; Inst. Mgt. Sci. Public and governmental management; national, state and local government. Publ: Co-auth, Management: concepts and practice, 67 & Science and technology, 67, Indust. Col. Armed Forces; co-auth, Organization of the federal government for science and technology, George Washington Univ, 68. Address: 1700 Sanford Rd, Silver Spring, Md. 20902.

BROWN, DR. FREDERICK G(RAMM), b. Madison, Wis, Apr. 6, 32; m. 56; c. 3. PSYCHOLOGY. B.A, Wisconsin, 54, Nat. Sci. Found. fel, 54-55, M.A, 55; Nat. Sci. Found. fel, Minnesota, 55-56, univ. fel, 56-58, Ph.D.(psychol), 58. Asst. prof. psychol. & asst. dir. testing & counseling, Missouri, 58-61; asst. prof. PSYCHOL, IOWA STATE, 61-64, ASSOC. PROF, 64- Fel, Center Adv. Study Behav. Sci. & U.S. Off. Ed. fel. ed. res, 67-68. AAAS; Ed. Res. Asn; Coun. Measurement in Ed; Psychol. Asn; Personnel & Guid. Asn. Psychological measurement and testing; higher education; philosophy of science. Publ: Logic of psychological measurement, Holt, 68; co-auth, The unpredictability of predictability, 66 & Differential predictability in college admissions testing, 67, J. Ed. Measurement. Address: Dept. of Psychology, Iowa State University, Ames, Iowa. 94305.

BROWN, FREDERICK W(ARNER), b. Pittsburgh, Pa, July 27, 93; m. 22; c. 2. PSYCHOLOGY, SPEECH PATHOLOGY. Ph.B, Heidelberg Col, 14; A.M, Princeton, 17; dipl, Princeton Theol. Sem, 17; Iowa, 20-22; Wisconsin, 22; Columbia, 27-30; N.Y. Univ, 36-55; Adj. Gen. First Sch. Psychol, 42. Head dept. hist. & politics, Davis & Elkins Col, 19-20; instr. speech, Iowa, 20-21, res. assoc. psychol, 21-22; prof. English speech, Hokkaido, 22-25; assoc. prof. spoken English, Smith Col, 26-27; dir. dept. info. & statist, Nat. Cmt. Ment. Hyg, 27-33, bibliographer, 35-37; spec. rep, tabulating mach. div, Int. Bus. Mach. Corp, 33-35; speech pathologist, pub. sch, N.Y, 35-37; dir. guid. dept. & adult ed. counseling serv, Sewanhaka High Sch, 36-38, psychologist & speech pathologist, 38-42, dir. speech clin. & coordinator spec. classes, 36-56; speech therapist, Cent. High Sch. Dist. 2, Nassau County, N.Y, 57-62; PSYCHOLOGIST & SPEECH THERAPIST, 62- Statist. expert ment. disorders, U.S. Bur. Census, 31-39; dir. demonstration speech clin, pub. schs, N.J, 32; asst. prof, N.Y. Univ, 44-45. Am. Field Serv, French Army, 17; U.S.A, 42-46, Lt. AAAS; fel. Speech & Hearing Asn; fel. Orthopsychiat. Asn; N.Y. Acad. Sci. Mental health; traumatic disorders of speech, reading and mathematics; behavior problems of children; religious education; gerontology; informal education of parents and their children in effective parenthood and citizenship; alcoholism, especially in relation to the mental and emotional reactions of spouse and children. Publ: A statistical survey of patients in hospitals for mental disease and institutions for mental defectives and epileptics in 32 countries, Proc. First Int. Cong. Ment. Hyg, 32; Stuttering: its neurophysiological basis and probable causation, Am. J. Orthopsychiat, 10/32; A psychotherapeutically oriented coeducational program for mentally retarded adolescents in a comprehensive high school, Ment. Hyg, 4/55. Address: 6 Madison Lane, Carle Place, N.Y. 11514.

BROWN, DR. GEORGE H(ASKELL), b. Valdosta, Ga, July 4, 22; m. 44; c. 2. PSYCHOLOGY. A.B, N.Y. Univ, 47, Ph.D.(psychol), 52. Instr. psychol, Wash. Sq. Col, N.Y. Univ, 49-53; asst. prof, Mt. Holyoke Col, 53-55; from res. assoc. to SR. SCIENTIST, HUMRRO, GEORGE WASHINGTON, 55-, ASSOC. PROF. LECTR, 66- U.S.A, 43-46. Psychol. Asn. Military psychology; language training; programmed instruction. Publ: Factors influencing incidental learning, J. Exp. Psychol; Development and evaluation of an improved field radio repair course & Modern approaches to foreign language training: a survey of current practices, HumRRO. Address: Human Resources Research Office, 300 N. Washington St, Alexandria, Va. 22314.

BROWN, DR. GEORGE H(AY), b. Denver, Colo, Feb. 4, 10; m; c. 1. ECONOMICS, MARKETING. A.B, Oberlin Col, 29; M.B.A, Harvard, 31; Ph.D. (econ), Chicago, 45. Sales mgr, indust. chems. div, Mallinckrodt Chem. Works, 31-37; prof. mkt, Chicago, 37-54; mgr. consumer res. dept, Ford Div, FORD MOTOR CO, 54-60, DIR. MKT. RES, 60- Indust. consult, 50-54. Mem. res. adv. cmt, Found. Res. Human Behav, Ann Arbor, 62-; res. policy cmt. & alternate trustee, Mkt. Sci. Inst, 62-; mem. exec. cmt, Nat. Mkt. Adv. Cmt, U.S. Dept. Commerce, 66- Fel. Psychol. Asn; Econ. Asn; Statist. Asn; Econometr. Soc; Mkt. Asn.(pres, 51-52). Product and price policy; sales management; advertising. Publ: International economic position of New Zealand; co-auth, Readings in price policy; Readings in marketing from fortune. Address: 1735 Tiverton Rd, Bloomfield Hills, Mich. 48103.

BROWN, DR. GEORGE W(ILLIAM), Math, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BROWN, DR. GILBERT LEHR, JR, b. Pasadena, Calif, Oct. 16, 17; m. 40; c. 4. PUBLIC ADMINISTRATION. A.B. & A.M, Redlands, 39; Ph.D.(polit. sci), Southern California, 65. Asst. pub. rels, REDLANDS, 39-40, instr. polit. sci, 40-42, asst. prof. journalism, 43-55, assoc. prof, 56-57, admin. asst. to the pres, 58-66, V.PRES. DEVELOP, 66-, asst. pub. rels, 40-42, dir, 43-57, dir. Salzburg semester, 60, dir. European prog, 60-63, dir. develop, 63-66. Asst. to gen. mgr, Forest Lawn Co, 57-58; Consult, Judson Col, 62-64. Relationship between social status and success in municipal elections. Publ: Co-auth, Green Lake Writers Conference comes to you, Judson, 59. Address: University of Redlands, Redlands, Calif. 92373.

BROWN, DR. GILBERT T(HOMAS), b. Tampa, Fla, Nov. 3, 26; m. 56; c. 3. ECONOMICS. B.A, Yale, 49, univ. fel, 50-51, M.A, 51, Marx fel, 53-54, Ph.D.(econ), 57; fel, Wesleyan, 51-53. Instr, Yale, 54-56; regional economist, Fed. Reserve Bank Boston, 56-58, economist, for. res. dept, Fed. Reserve Bank N.Y, 58-62; economist, First Nat. City Bank of N.Y, 58; monetary & fiscal economist, AGENCY INT. DEVELOP, U. S. DEPT. STATE, 62-65, SR. ECON. ADV, U.S. OPERS. MISSION, KOREA, 65- Lectr, City Col. New York, 59-62. U.S.A.A.F, 45. Econ. Asn. Monetary and fiscal policies; economic development and planning in south and east Asia. Address: Agency for International Development, U.S. Operations Mission—Korea, APO San Francisco, Calif. 96301.

BROWN, PROF. GILES T(YLER), b. Marshall, Mich, Apr. 21, 16; m. 51. INTERNATIONAL AFFAIRS. A.B, San Diego State Col, 37; M.A, California, 41; Ph.D, Claremont Cols, 48; Edinburgh, 49. Counsr, pub. schs, San Diego, Calif, 37-46; chmn. div. soc. sci, Orange Coast Col, 49-60; PROF. HIST, CALIF. STATE COL. FULLERTON, 60-, DEAN GRAD. STUDIES, 67-, chmn. dept, 60-67. Summers, dir. study seminar to Africa, Long Beach State Col, 56; study seminar to Asia & Mid.E, Pepperdine Col, 58, study seminar to Africa, 60. Adv. geront. prog, Los Angeles City Schs, 56-58; dir, Behind the headlines forum, Orange Coast Col, 60- Del, Conf. Africa, U.S. Dept. State, Boston, 61. U.S.N.R, 42-46, Lt. AAAS; Hist. Asn; Nat. Audubon Soc. Twentieth century America; America's relations with the newly independent areas of the world, particularly Africa and the Middle East. Publ: Ships that sail no more: marine transportation from San Diego to Puget Sound, 1910-1940, Univ. Kentucky Press, 66; Dialectic gulf between Tito and Moscow, World Affairs Quart, 1/58; What America must learn about Africa, Overview, 11/61. Address: 413 Catalina Dr, Newport Beach, Calif. 92660.

BROWN, HARRISON SCOTT, Geochem, see 11th ed, Phys. & Biol. Vols.

BROWN, PROF. HARRY GUNNISON, Econ, see 10th ed, Soc. & Behav. Vols.

BROWN, DEAN HORACE, b. Holly Springs, Miss, Aug. 19, 08; m. 32; c. 1. MARKETING. B.S.C, Mississippi, 31; M.B.A, Northwestern, 32, Ph.D, 41. Asst. prof. econ, Mississippi, 37-38, assoc. prof. econ. & dir. news bur, 38-40, prof. econ, 41-49, acting dean sch. commerce & bus. admin, 41-42, dean, 42-49; PROF. MKT. & DEAN COL. BUS. ADMIN, OKLAHOMA, 49-, V.PRES. BUS. & FINANCE, 60- Vis. prof, grad. sch, Harvard, 55-56. Consult, Cotton Coun. Am, 48-49; U.S. Gen. Acct, Off. 55-62. Pres, Am. Asn. Collegiate Schs. Bus, 55-56; Nat. Coun. Prfnl. Ed. Bus, 56; mem, joint coun. ed. adv, Am. Col. Life Underwriters & Am. Inst. Property & Liability Underwriters, 55-62; bd. dirs, Norman Saving & Loan Asn, 60-; cmt. on taxation, Am. Coun. Ed, 63-; bd. dirs, Friendly Nat. Bank, Okla. City, 65- Mkt. Asn: Econ. Asn. Sales management and general marketing. Address: College of Business Administration, University of Oklahoma, Norman, Okla. 73069.

BROWN, DR. INA CORINNE, b. Gatesville, Tex. ANTHROPOLOGY. A.B, Chicago, 36, Rosenwald fel, 38-39, Ph.D.(soc. anthrop), 42. Sr. specialist soc. studies, U.S. Off. Ed, D.C, 39-42; prof. ANTHROP, SCARRITT COL, 42-66, EMER. PROF, 66- Spec. lect, Fisk; Vanderbilt; Peabody Col; Nashville Sch. Soc. Work; spec. consult, World Book Encyclop, 63-66. Mem, Nat. Coun. Soc. Studies; Int. Fedn. Univ. Women. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; fel. Geog. Soc; fel. Soc. Appl. Anthrop; Int. African Inst. Interracial practices in the United States; social structure in multiracial societies; cross cultural understanding. Publ: Understanding other cultures, Prentice-Hall, 63; Anthropological and sociological factors in race relations, In: Negro education in America, Harper, 62; Cultural background of international education, In: Governmental policy and international education, Wiley, 65. Address: 1509 17th Ave. S, Nashville, Tenn. 37212.

BROWN, IRVING, Econ, Math, see 10th ed, Soc. & Behav. Vols.

BROWN, DR. IRWIN, Speech Path, see Suppl. V to 11th ed, Phys. & Biol. Vols.

BROWN, PROF. JACOB A, b. Swift Current, Sask, July 12, 26. AGRICULTURAL ECONOMICS. B.S.A, Saskatchewan, 51; M.S, N.Dak. State, 53; Minnesota, 62-64. Dir. farm mgt. prog, Govt. Sask, 57-61, res. & planning, 61-64, econ. & statist. br, 64-67; ASSOC. PROF. AGR. ECON, SASKATCHEWAN, 67- Mem. bd. governors, Agr. Econ. Res. Coun. Can, 64-66; secy, Sask. River Delta Res. Cmt. & Sask. Agr. Develop. Adv. Bd, 64-67; chmn, Sask. Crop Ins. Bd, 64-; S.Sask. River Irrig. Adv. Bd, 67- Am. Farm Econ. Asn; Can. Agr. Econ. Soc; Agr. Inst. Can. Publ: Co-auth, Farm land prices in Saskatchewan, Govt. Sask, 3/67; auth, Farm management techniques & services, Agr. Inst. Rev, 7-8/67; co-auth, Farm management for Canada, Can. Agr. Econ. Soc, 8/67. Address: Dept. of Agricultural Economics, University of Saskatchewan, Saskatoon, Sask, Can.

BROWN, PROF. JAMES C(OOKE), Sociol, see 10th ed, Soc. & Behav. Vols.

BROWN, DR. J(AMES) DOUGLAS, b. Somerville, N.J, Aug. 11, 98. ECONOMICS. A.B, Princeton, 20, A.M, 21, Ph.D, 28; D.Litt, Rutgers, 47; L.H.D, Kenyon Col, 54; LL.D, Union Col, 55; hon. Ped.D, Franklin & Marshall Col, 66. Instr. Princeton, 21-23; N.Y. Univ, 23-25; econ, PRINCETON, 26-27, dir. indust. rels. sect, 26-55, asst. prof. econ, 27-34, prof, 34-67, dean faculty, 46-67, provost, 66-67, EMER. PROVOST, EMER. DEAN FACULTY & EMER. PROF. ECON, 67- Vis. asst. prof, Pennsylvania, 32-33; chief, priorities br, labor div, Off. Prod. Mgt, 41-42; dir, Fund Adult Ed, 58-61. dir. McGraw-Hill Pub. Co, 53- Consult, Soc. Security Admin, 36-50; staff consult, U.S. Secy. War, 42-45; consult, Nat. Security Resources Bd, 50-53; Secy. Labor, 54-55; Secy. Health, Ed. & Welfare, 60-61. Chmn, Fed. Adv. Coun. Soc. Security, 37-38; cmt. soc. security, Soc. Sci. Res. Coun, 39-43, cmt. labor mkt. res, 43-49; alternate, War Manpower Cmn, 42-43; v.chmn, Nat. Policy Cmt, 43-47; sci. adv. bd, Chief of Staff, U.S. Air Force, 50-54; mem. mobilization prog. adv. cmt, Off. Defense Mobilization, 55-58; Fed. Adv. Coun. Soc. Security Financing, 57-59; adv. cmt. int. sci. activities, Nat. Sci. Found, 60-; adv. cmt, Revision Nat. Defense Ed. Act, 60; chmn. cmn. faculty & staff benefits, Asn. Am. Cols, 60-63; mem. bd. trustees, Rochester, 61-; Adv. Cmt. Res. Soc. Security Admin, 61-62, adv. coun. soc. security, 63-64; res. adv. bd, Cmt. Econ. Develop, 67- U.S.A, 17-19. Econ. Asn; Mgt. Asn; Indust. Rels. Res. Asn.(past pres); fel. Am. Acad. Arts & Sci. Labor banking movement in the United States; industrial relations and social insurance; university administration. Address: Princeton University, Industrial Relations Section, Princeton, N.J. 08540.

BROWN, DR. JAMES HARVEY, b. Yankton, S.Dak, Sept. 9, 36; m. 59; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Wesleyan, 57; M.S, Purdue, 59; Ph.D. (exp. psychol), Virginia, 62. Res. assoc, Psychol. Res. Assocs, 59; res. psychologist, U.S. Army Med. Res. Lab, 62-65, head vestibular br, 65-68; ASSOC. DIR. PSYCHOBIOL. PROG, NAT. SCI. FOUND, 68- Adj. prof, Kentucky, 64-68. Med.Serv.C, U.S.A, 60-65, Capt. Aerospace Med. Asn; Psychol. Asn; Psychonomic Soc. Sensory mechanisms; vestibular psychophysiology; perception. Publ: Acquisition and retention of nystagmic habituation, J. Comp. & Physiol. Psychol, 65; Interacting vestibular stimuli and nystagmic habituation, Acta Otolaryingol, 66; Magnitude estimation of angular velocity during passive rotation, J. Exp. Psychol, 66. Address: Psychobiology Program, National Science Foundation, 1800 G St, Washington, D.C. 20550.

BROWN, PROF. JAMES R(OBERT), b. Denver, Colo, May 4, 09; m. 55. POLITICAL SCIENCE. A.B, St. Patrick's Sem, 38; M.A, Fordham, 48, Ph.D, 54. Asst. instr. Am. Govt, Fordham Col, 47-48, instr. Am. Govt. & pub. admin, 48-52, asst. prof. Am. civilization & chmn. dept, 52-54; vis. lectr. govt. & chmn. introd. course, Wesleyan, 54-57; assoc. prof. polit. sci, Marquette, 57-59; PROF. hist. & polit. sci, St. Joseph (Conn), 59-63; PUB. ADMIN, HARTFORD, 63-, DIR. RES, REGIONAL AFFAIRS CENTER, 64-, ASSOC. DIR, JOHN C. LINCOLN INST, 66- Lectr. hist, Seton Hall, 54-55. U.S.A, 40-46, Maj. Polit. Sci. Asn; Econ. Asn; Soc. Pub. Admin; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Presidential-legislative relationship; political philosophy, especially relation of ethics to politics. Publ: Co-auth, Land reform in developing countries, Univ. Hartford, 67; auth, The presidential election of 1952, Rev. of Polit, Brussels, Belgium; co-auth, The role of non-governmental organizations in American public life, Int. Asns. Address: 19 Cumberland Rd, West Hartford, Conn. 06119.

BROWN, PROF. JAMES S(TEPHEN), b. McVeigh, Ky, Oct. 20, 16. SOCIOLOGY. A.B, Berea Col, 37; A.M, Harvard, 41, Ph.D, 50. Soc. sci. analyst, div. farm pop. & rural welfare, bur. agr. econ, U.S. Dept. Agr, 45-46; ASST. RURAL SOCIOLOGIST, EXP. STA, KENTUCKY, 46-, PROF. RURAL SOCIOL, UNIV, 64-, asst. prof, 49-51, assoc. prof, 51-64. Fulbright sr. res. grant, Germany, 54-55; Italy, 64-65. Pop. Asn. Am; Sociol. Asn; European Soc. Rural Sociol; Rural Sociol. Soc. Family and kinship structure; social stratification; population changes; southern Appalachians; adjustment of migrants; mental health. Publ: Family group in a Kentucky mountain farming community & Farm family in a Kentucky mountain neighborhood, Ky. Agr. Exp. Sta. Bull; co-auth, Kentucky mountain migration and the stem family, Rural Sociol, 3/63. Address: Dept. of Sociology, University of Kentucky, Lexington, Ky. 40506.

BROWN, DR. JANET L(OUISE), b. Philadelphia, Pa, July 21, 30. PSYCHOLOGY. B.A, Mt. Holyoke Col, 50; M.A, Yale, 51, Ph.D.(exp. & clin. psychol), 55. Asst. child develop, child study center, Yale, 54-57; PSYCHOLOGIST, JAMES JACKSON PUTNAM CHILDREN'S CENTER, 57- Psychol. Asn; fel. Orthopsychiat. Asn. Affective and cognitive development and peer interaction in first two years, newborn states constitutional equipment; etiology, treatment, prognosis in infantile psychosis. Publ: Prognosis from presenting symptoms of preschool children with atypical development & Follow-up of children with atypical development, 63, Am. J. Orthopsychiat; States in newborn infants, Merrill-Palmer Quart, 65. Address: James Jackson Putnam Children's Center, 244 Townsend St, Boston, Mass. 02121.

BROWN, PRES. JOHN ANTHONY, b. Harrisburg, Pa, July 15, 18; m. 43; c. 4. POLITICAL SCIENCE. A.B, Temple, 43; M.A, Chicago, 45; DuBois fel, Princeton, 47-48, Fund. Adv. Ed. fel, 51-52; LL.D, Westminster Col, 62; L.H.D, Ursinus Col, 62, Tarkio Col, 67. Prod. ed, Time, Inc, N.Y, 43-48; asst. prof. polit. sci, Temple, 48-54, dean men, 52-55, asst. to pres, 55-60; v.pres. pub. affairs & finance, Occidental Col, 60-63; v.pres. plans & resources, George Washington, 63-64, prof. int. affairs, v.pres. & dean faculties, 64-66; PROF. POLIT. SCI. & PRES, LINDENWOOD COL, 66- Lectr, Woodrow Wilson Sch. Pub. & Int. Affairs, Princeton, 52. Mem. Agency Int. Develop. Ed. Eval. Team, Brazil, summer, 64; Ford Found. consult, Bogota, Colombia, 65. Consult. for legis. on higher ed, Wells Cmt, Dec, 64; Ford Found. & Acad. Ed. Develop, 64; Community Res. & Develop. Inc, 64; bd. mem. & treas, Int. Movement for Atlantic Union, 64-; mem. exec. cmt, Am. Coun. Nationalities Serv, 64-66. Polit. Sci. Asn. The role of the private sector in higher education. Publ: Trustees, In: The A.C.P.R.A. reference manual, 61; The merry tuition-go-round, Col, & Univ. Bus, 62; DeGaulle's France—is it really against U.S.?, In: Freedom and union, 66. Address: President's Room, Lindenwood College, St. Charles, Mo. 63301.

BROWN, DR. JOHN LOTT, Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BROWN, DR. J(OHN) MARSHALL, b. Point Pleasant, N.J, Aug. 27, 24; m. 49; c. 3. PSYCHOLOGY. B.S, Pa. State, 47, Ph.D.(psychol), 51. Asst. PSYCHOL, Pa. State, 47-50; asst. prof, Bucknell, 50-53, assoc. prof, 53-54; LAFAYETTE COL, 54-61, PROF, 61-, HEAD DEPT, 59- Psychol. consult, 51- Pres, Northampton County Prison Bd; mem, Northampton County Ment. Health-Mental Retardation Bd; Easton Area Joint Sch. Bd; trustee, Community Serv. Pa. U.S.A.A.F, 42-45. Fel. AAAS; fel. Psychol. Asn. Applied experimental psychology; personnel procedures. Publ: Ed. & co-auth, Applied psychology, Macmillan, 66. Address: 401 Dogwood Terr, Easton, Pa. 18042.

BROWN, PROF. J(ONEL) L(EONARD), Econ, Sociol, see 10th ed, Soc. & Behav. Vols.

BROWN, DR. JOSEPH DAVID, b. Columbus, Ohio, Dec. 19, 37; m. 61; c. 2. AGRICULTURAL ECONOMICS. B.S, Ohio State, 59, M.S, 60, Ph.D.(agr. econ), 64. ASST. AGR. ECONOMIST, GEORGIA, 63- Farm Econ. Asn; Mkt. Asn. Retail margins on selected produce items; milk production costs;

interregional competition in the marketing of peaches and watermelons; farmers' behavior in purchasing pesticides; economic effects of pesticide residues. Publ: Retail margins on tomatoes, Ohio Agr. Res. & Develop. Center, 66; Factors associated with the cost of producing milk for higher producing dairy herds in Georgia, 66 & Georgia peach producing industry: an analysis of interregional competition, 67, Univ. Georgia Col. Agr. Exp, Stas. Address: Dept. of Agricultural Economics, University of Georgia, Experiment, Ga. 30212.

BROWN, DR. JUDSON SEISE, b. Mexico City, Mex, Mar. 15, 10; U.S. citizen; m. 39; c. 3. PSYCHOLOGY. A.B, Redlands, 32; M.A, California, Los Angeles, 37; Ph.D.(psychol), Yale,40. Instr. psychol, Harvard, 40-41; Yale, 41-42; res. psychologist, Aero Med. Lab, Wright Field, Ohio, 46; from asst. prof. to prof. psychol, Iowa, 46-60; grad. res. prof, Florida, 60-62; prof. med. psychol, med. sch, Oregon, 62-65; PROF. PSYCHOL. & CHMN. DEPT, IOWA, 65- Aviation psychologist, Sch. Aviation Med, U.S.A.A.F, 42-46. Fel. Psychol. Asn; Soc. Exp. Psychol. Motivation; emotion; conflict; learning. Address: Dept. of Psychology, University of Iowa, Iowa City, Iowa 52240.

BROWN, DR. LARRY T(OD), b. Washington, D.C, Apr. 23, 36; m. 60; c. 2. PSYCHOLOGY. B.A, Kentucky, 58; Ph.D.(psychol), Princeton, 61. Asst. prof. PSYCHOL, OKLA. STATE, 61-65, ASSOC. PROF, 65- Nat. Inst. Ment. Health res. grants, 62-63 & 64-67. Psychol. Asn; Psychonomic Soc. Stimulus determinants of attentional and exploratory behavior in primates. Publ: A critical period in the learning of motionless stimulus properties in chicks, Animal Behaviour, 64; Attentional response of humans and squirrel monkeys to visual patterns varying in three physical dimensions, 66 & Further studies of the attentional response of humans and squirrel monkeys to visual patterns, 67, Perceptual & Motor Skills. Address: Dept. of Psychology, Oklahoma State University, Stillwater, Okla. 74074.

BROWN, PROF. LAUREN H(IRAM), b. Maple Rapids, Mich, June 12, 09; m. 32; c. 3. AGRICULTURAL ECONOMICS. B.S, Mich. State, 31; M.S, Illinois, 32; Ph.D, Purdue, 48. Asst, Connecticut, 32-33; fieldman, Fed. Land Bank, 33-36; asst. prof. agr. econ, Mich. State, 36-45; asst, Purdue, 45-48; farm mgr, Halderman Farm Mgt. Serv, 48-50; assoc. prof. AGR. ECON, MICH. STATE, 50-54, PROF, 54- Consult, Orgn. European Econ. Coop, France, 56. Agr. Econ. Asn; Int. Asn. Agr. Econ; Soc. Farm Mgr. & Rural Appraisers (v.pres, 60-61). Farm management extension. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

BROWN, DR. LAWRENCE A, b. Erie, Pa, Nov. 22, 35; m. 67. GEOGRAPHY. B.S, Pennsylvania, 58; Michigan, 60-61; M.A, Northwestern, 63, Ph.D.(geog), 66. Asst. prof. GEOG, Iowa, 65-68; ASSOC. PROF, OHIO STATE, 68- Regional Sci. Asn; Asn. Am. Geog; Am. Sociol. Asn. Diffusion of innovation; spatial diffusion; migration; transportation; urban areas; research methodology; Latin America. Publ: Diffusion dynamics: a review and revision of the quantitative theory of the spatial diffusion of innovation, In: Gleerups-Lund series in geography, 68; Diffusion processes and location: a conceptual framework and bibliography, Regional Sci. Res. Inst. Bibliog. Series, 68; Diffusion of innovation: a macro-view, Econ. Develop. & Cultural Change, (in prep). Address: Dept. of Geography, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

BROWN, PROF. L(AWRENCE) GUY, b. Macomb, Ill, Mar. 31, 95. SOCIOLOGY. A.B, Dakota Wesleyan, 21; Northwestern, 17-18; Cambridge, 19; Chicago, 22-26; Ph.D, Ohio State, 32. Asst. prof, Ohio Wesleyan, 26-28, assoc. prof, 28-33; Missouri, 33-37; prof. sociol, Oberlin Col, 37-46; Rhode Island, 46-60; RETIRED. Sociol. Asn. Immigration; social psychology; social pathology. Address: Gulfstream Towers, 33 S. Gulfstream Ave, Sarasota, Fla. 33577.

BROWN, LEO C(YRIL), S.J, b. Stanberry, Mo, Apr. 28, 00. ECONOMICS. A.B, St. Louis, 26, A.M, 28, S.T.L, 35; A.M, Harvard, 38, Wertheim fel. & Ph.D, 40. Instr. ECON, Regis Col, 40-41, asst. prof, 41-42; instr, St. Louis, 42-43, asst. prof, 43-45, assoc. prof, 45-49, prof, 49-66, dir. labor sch, 42-47, acting regent law sch, 48-49; RES. ASSOC, CAMBRIDGE CENTER SOC. STUDIES, 66- Dir, Inst. Soc. Order, 47-61; mem, Atomic Energy Labor-Mgt. Rels. Panel, 53-, acting chmn, 68- Econ. Asn; Acad. Arbit.(v.pres, 54-60, pres, 60); Acad. Polit. & Soc. Sci. Union policies in the leather industry; impact of the new labor law on union-management relations. Address: 42 Kirkland St, Cambridge, Mass. 02138.

BROWN, DR. L(EONARD) KEITH, b. Ames, Iowa, Feb. 21, 33; m. 55; c. 3. ANTHROPOLOGY. B.S, Iowa State, 55; Nat. Defense For. Lang. fel, Chicago, 60-61, M.A, 61, Nat. Inst. Ment. Health fel, 61-64, Ph.D.(anthrop), 64. Asst. prof. ANTHROP, Nebraska, 64-65; Mellon fel, PITTSBURGH, 65-66, ASST. PROF, 66- U.S.M.C, 55-58, Res, 58-64, Capt. Anthrop. Asn; Asn. Asian Studies. A comparison of family and kinship adjustments in changing rural and urban environments in Japan to discover the social concomitants of urbanization and modernization. Publ: Co-auth, The establishment of branch households, Japanese J. Ethnol, 66; auth, Dozoku and the ideology of descent in rural Japan, Am. Anthropologist, 66 & The content of Dozoku relationships in Japan, Ethnology, 68. Address: Dept. of Anthropology, University of Pittsburgh, Pittsburgh, Pa. 15213.

BROWN, DR. LYLE CLARENCE, b. Hume, N.Y, Aug. 7, 26; m. 49; c. 3. GOVERNMENT. B.A, Oklahoma, 48, M.A, 52; Ph.D.(govt), Texas, 64. Fel. govt, Texas, 48-50, 54-56; instr. hist. & polit. sci, Mex. City Col, 56-58; asst. prof. govt, Tex. Col. Arts & Indust, 58-62; asst. prof. hist. & polit. sci. & dir. Am. heritage prog, Wayland Baptist Col, 62-63; asst. prof. POLIT. SCI, BAYLOR, 63-65, ASSOC. PROF, 65- U.S.N, 43-47, 50-51, Res, 51-, Comdr. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Hist. Asn. Latin American affairs, especially Mexico; government and politics of the U.S.S.R; military government; international relations. Publ: Mexican liberals and their struggle against the Diaz dictatorship, 1900-1906; Party and state in the U.S.S.R, Soc. Studies, 2/63; Mexican church-state relations, 1934-1940, J. Church & State, 64. Address: Dept. of Political Science, Baylor University, Waco, Tex. 76703.

BROWN, DR. L(YNDON) O(SMOND), Mkt, see 10th ed, Soc. & Behav. Vols.

BROWN, PROF. MAHLON C, b. Downsville, N.Y, Dec. 26, 26; m. 49; c. 4. ECONOMICS, GEOGRAPHY. A.B, Syracuse, 51, N.Y. War Vet. scholar, 52-55, D.S.S, 59. Asst, Syracuse, 54-55; instr. SOC. STUDIES, MARSHALL, 55-58, asst. prof, 58-67, PROF, 67-, asst. dir, small bus. res. proj, 60-61. Mem. Nat. Coun. Soc. Studies. C.Eng, 45-47, Sgt. African Studies Asn. Economic development; market growth in northern Rhodesia; economically depressed coal producing area in southern West Virginia. Publ: Growth of the market oriented economy in northern Rhodesia, 1945-1955; How small business can revitalize three coal-dominated counties in West Virginia. Address: Dept. of Social Studies, Marshall University, Huntington, W.Va. 25701.

BROWN, DR. MARI J(EAN) K(LEMOLA), b. Waukegan, Ill, Aug. 4, 38; m. 59. PSYCHOLOGY. B.S, Illinois, 60; Ph.D.(psychol), Columbia, 65. ASST. PROF PSYCHOL, DePAUL, 65- Psychol. Asn. Verbal behavior; measurement; research design. Publ: The role of single word variables in the recall of statistical approximations to English, Psychol. Reports, 66. Address: Dept. of Psychology, DePaul University, 2320 Seminary, Chicago, Ill. 60614.

BROWN, DR. MARION RHODES, b. Apr. 8, 09; U.S. citizen; m. 43; c. 1. PSYCHOLOGY. B.A, Barnard Col, Columbia, 30; M.A, Columbia, 33, Ph.D, (soc. psychol), 58; Harvard, summer, 37. Teacher, pub. schs, New York, 30-46; lectr. ed, Hunter Col, 51; res. assoc. personnel res, Herrold Assocs, 58-60; asst. prof. ED. PSYCHOL, CITY COL. NEW YORK, 61-65, ASSOC. PROF, 65- Ed, Teacher Ed. News & Notes of City Univ. New York, 64-66. AAAS; Nat. Soc. Study Ed; Soc. Psychol. Study Social Issues; fel. Int. Coun. Psychol; Psychol. Asn; Acad. Polit. & Soc. Sci; Ed. Res. Asn. Personnel research and management development; educational psychology; course and curriculum evaluation. Publ: A pragmatic approach to the teaching of values, spring 58 & Creative teaching through systematic teacher observation and evaluation of the teaching-learning process, winter 62, Ed. Horizons; Book reviews of professional books, J. Teacher Ed, 3/65. Address: 404 Riverside Dr, New York, N.Y. 10025.

BROWN, DR. MARVIN, b. Montreal, Que, July 24, 38; m. 60; c. 2. PSYCHOLOGY. B.Sc, McGill, 59, M.Sc, 61; Ph.D.(psychol), Michigan, 67. ASST. PROF. PSYCHOL, WATERLOO, 66- Can. Coun. res. grant, 67-68. Am. Psychol. Asn; Can. Psychol. Asn. Personality theory and research; achievement motivation. Address: Dept. of Psychology, University of Waterloo, Waterloo, Ont, Can.

BROWN, DR. MORONI HAROLD, b. Brigham City, Utah, Feb. 18, 12; m. 38; c. 7. PSYCHOLOGY. B.A, Utah, 36; M.A, Columbia, 37; Ph.D, Denver, 56. Personnel technician, Los Angeles City Civil Serv. Cmn, 39-40; psychologist & counsr, Salt Lake City Bd. Ed, 41-48; asst. prof. PSYCHOL, UTAH, 48-56, ASSOC. PROF, 56-, clin. instr. & consult, col. med, 46-60. Consult, Primary Children's Hosp, 46-60; State Dept. Health, Utah, 54-; Wyo. State Hosp, 59-65. Mem. State Bd. Ed, Utah, 58-64, chmn, 61-64. AAAS; Psychol. Asn. Facilitation of learning ability; effects of brain injury on learning ability; sex differences in intelligence; Circadian rhythms; psychology of language; psychological assessment; biological and psychological factors in space travel. Publ: Altitude quotient as a measurement of intellectual potential, J. Clin. Psychol; Method for differential diagnosis of brain damage in adolescents, J. Nervous & Ment. Disease; Organization and function of an outpatient alcoholic clinic in a general rehabilitation center, Am. J. Phys. Med. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

BROWN, DR. MORTIMER, b. New York, N.Y, Feb. 20, 24; m. 45; c. 2. PSYCHOLOGY. B.S, City Col. New York, 49; Ph.D, Vanderbilt, 61. Intern psychol, Vet. Admin, 49-53; psychologist, Cent. State Hosp, Nashville, Tenn, 53-55; exec. dir, Ment. Health Center, Adams County, Ill, 55-61; ASST. TO DIR, STATE DEPT. MENT. HEALTH, ILL, 61- Instr, Vanderbilt, 53-55; play therapist, Nashville Bd. Ed, 53-55; private practice, 53-55. Consult, Nat. Inst. Ment. Health, 66-; Joint Cmn. Ment. Health Children, 67- Pres. elect, Conf. Psychologist Dirs. & Consultants, 66-67, pres, 67-68. U.S.A.A.F, 42-46. Psychol. Asn; Orthopsychiat. Asn. Network management; delivery of community services; higher education administration; legislative affairs. Publ: On a definition of culture, Psychol. Bull; Form follows function—psychologists in broadening roles, Comprehensive Psychiat, 8/65; New roles for outpatient clinics, J. Psychiat. Outpatient Clin. Am, 9/67. Address: 631 Witherspoon Dr, Springfield, Ill. 62704.

BROWN, PROF. MURRAY, b. Alden, N.Y, July 4, 29; m. 54; c. 1. ECONOMICS, MATHEMATICS. B.A, Buffalo, 52; Columbia, 53-55; Halle fel. & Ph.D. (econ), New Sch. Soc. Res, 56. Asst. econ, Nat. Bur. Econ. Res, 55-56; asst. prof, Pennsylvania, 56-61; vis. scholar. economet, Netherlands Sch. Econ, 61-62; consult, U.S. Dept. Commerce, 62-64; prof, George Washington, 64-65, 66-67; Guggenheim fel. & res. assoc, Center of Study & Econ. Planning, 65-66; PROF. ECONOMET, STATE UNIV. N.Y. BUFFALO, 67- Lectr, City Col. New York, 55-56; res. assoc, Patent, Trademark & Copyright Found, 58-60; Cmn. Money & Credit, 60-; res. grant, Am. Philos. Soc, 59; Pennsylvania, 60; Ford Faculty fel, 61-62. Consult, U.S. Dept. Justice, 65-66. Econ. Asn; Economet. Soc; Statist. Asn. Industrial development; Italian economic development; business cycle analysis; econometric analysis of technological change and economic growth. Publ: On the theory and measurement of technological change, Cambridge Univ, 66; Overinvestment during prosperity, Econ. J; Toward an endogenous explanation of industrialization, Soc. Res, 66. Address: Dept. of Economics, State University of New York at Buffalo, Buffalo, N.Y. 14214.

BROWN, DR. OGDEN, JR, b. Evanston, Ill, Apr. 1, 27; m. 53; c. 4. PSYCHOLOGY. A.B, American Univ, 50, M.A, 51; Ph.D.(indust. psychol), Purdue, 65. U.S. AIR FORCE, 51-, from instr. to asst. prof. behav. sci, U.S. AIR FORCE ACAD, 61-65, TENURE ASSOC. PROF. PSYCHOL, 65- Behav. scientist, proj. Beyond the Horizon, U.S. Air Force Syst. Command, summer 66. U.S.N.R, 45-46; U.S.A, 46-48. Psychol. Asn. Personnel selection and placement; measurement models, especially moderator variables and differential prediction models; quantitative methods in psychology; academic and leadership prediction. Address: Dept. of Psychology & Leadership, U.S. Air Force Academy, Colo. 80840.

BROWN, DR. PAUL A(GNEW), b. New Kensington, Pa, Dec. 15, 05. PSYCHOLOGY. B.S, Grove City Col, 27; Ph.D.(psychol), Pittsburgh, 37. Teacher, high sch, Pa, 29-34; asst. psychol, Pittsburgh, 34-37; prof, Cumberland, 37-38; assoc. prof. ed, Ala. Polytech, 38-39; instr. psychol, Pittsburgh, 39-46; assoc. prof, St. Lawrence, 46-64; RETIRED. U.S.A.A.F, 42-43. AAAS; Psychol. Asn. Personality test analysis; clinical, abnormal and educational psychology. Address: 43A Cambridge Court, Leisure Village, Lakewood, N.J. 08701.

BROWN, DR. PAULA, b. Chicago, Ill, Feb. 24, 25; m. 48, 66. ANTHROPOLOGY. B.A, Chicago, 43, M.A, 48; Ph.D.(soc. anthrop), London, 50. Asst. lectr, univ. col, London, 48-51; res. anthropologist, California, Los Angeles, 52-55; lectr, Wisconsin, 55-56; res. fel. ANTHROP, Australian Nat. Univ, 56-63, fel, 63-65, sr. fel, 65-66; vis. lectr, Cambridge, 65-66; ASSOC. PROF, STATE UNIV. N.Y. STONY BROOK, 66- Fel. Anthrop. Asn; Sociol. Asn; Ethnol. Soc. Industrial relations; social structure in New Guinea; social and political change in developing countries; multi-ethnic communities. Publ: Co-auth, Struggle for land, Oxford, 63; auth, Social change and social movements, In: New Guinea on the threshold, Australian Nat. Univ, 66. Address: Dept. of Anthropology, State University of New York, Stony Brook, N.Y. 11790.

BROWN, PHILIP D(AVID), b. New York, N.Y, Nov. 13, 20; m. 57; c. 3. ECONOMICS, PUBLIC ADMINISTRATION. B.A, Brooklyn Col, 50; Block fel. & M.A, Yale, 51. Analyst city planning, Los Angeles Planning Dept, 56-60; assoc. prof, grad. prog. city & regional planning, Southern California, 60-63, chmn. dept, 60-65; dir. community renewal prog, Honolulu, Hawaii, 65-67; CHIEF BUR. PLANNING RES, OFF. PLANNING COORD, N.Y, 67- Lectr. & consult, California, Los Angeles, 59-60; asst. legis. anal, State Senate, Calif, 60; dir. res, Los Angeles Welfare Planning Coun, 60-61; mgt. supvr. property & oper, Los Angeles Housing Authority, 61-63. Res. consult, United Chests & Funds of Am, 60-; consult, U.S. Agency Int. Develop, Pakistan, 64-, Brazil, 65- A.U.S, 43. Statist. Asn; Inst. Planners; Opers. Res. Soc; Soc. Planning Off. City planning; locational analysis; demography; land economics; mathematical models of transit and facilities flow systems. Publ: Conceptual model of the urban ecology, Opers. Res. Address: Office of Planning Coordination, 488 Broadway, Albany, N.Y. 12207.

BROWN, DR. PHILIP KIER, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

BROWN, PROF. PHILIP M(EADER), b. Providence, R.I, Feb. 18, 01; m. 48. ECONOMICS. A.B, Brown, 22; A.M, Stanford, 25; Ph.D, Harvard, 31. Asst. econ, Stanford, 23-25; instr, Brown, 25-28, asst. prof. econ. & dir. bur. bus. res, 32-33; asst. prof. ECON, Middlebury Col, 33-34; instr, BOWDOIN COL, 34-36, asst. prof, 36-46, assoc. prof, 46-49, prof, 49-68, EMER. PROF, 68- Econ. Asn; Am. Acct. Asn. Money and banking; public finance; accounting. Address: 3 Page St, Brunswick, Maine 04011.

BROWN, DR. PHILIP S(TODDARD), b. Philadelphia, Pa, Aug. 12, 09; m; c. 3. ECONOMICS. B.A, Harvard, 30, M.B.A, 33, Brookings Instn. fel, 36-37, D.C.S, 37. Econ. asst, U.S. Dept. Treas, 37-40; Fed. Reserve Bd, 41; economist, div. spec. studies, U.S. Dept. State, 42; mem. war trade staff, Bd. Econ. Warfare, 42-43; CONSULT. ECONOMIST, 46- U.S.A, 43-45. Econ. Asn. Economic development and business fluctuations. Publ: Anomalous behavior of South African gold-mining industry, J. Polit. Econ; Britain's prospective national income, Am. Econ. Rev. Address: 1627 Connecticut Ave, Washington, D.C. 20009.

BROWN, DR. RALPH R, b. Philadelphia, Pa, Feb. 22, 07; m. 31; c. 2. PSYCHOLOGY. A.B, Ohio (Athens), 31; M.A, Illinois, 32; Ph.D.(psychol), Kentucky, 38. Jr. warden's asst, U.S. Penitentiary, Kans, 32-33, psychologist, 33-35; res. psychologist, U.S. Pub. Health Serv. Hosp, Lexington, Ky, 35-42; asst. to v.pres, Crosley Corp, Ohio, 42-43; sr. supvr. orgn. planning, U.S. Steel Corp, 43-44; consult. indust. psychologist, Pa. & Ill, 44-46; CONSULT. PSYCHOLOGIST, 46- Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn. Industrial psychology. Publ: Psychology of drugs, Mod. Abnorm. Psychol; Rorschach in industry, Personnel; Industrial elephantiasis, Mgt. Rev. Address: 731 Carew Tower, Cincinnati, Ohio 45202.

BROWN, DR. ROBERT ALAN, Opers. Res, Indust. Eng, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BROWN, DR. ROBERT B, b. New York, N.Y, Aug. 28, 21. FINANCE, STATISTICS. B.Sc, Fordham, 44, M.Sc, 50; M.B.A, N.Y. Univ, 55, Ph.D.(finance, statist), 64. Teacher, parochial schs, 41-44; high schs, 44-55; ASSOC. PROF. FINANCE & STATIST, IONA COL, 55-, DIR. GRAD. DIV. BUS. ADMIN, 65- Finance Asn; Statist. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Use of statistical techniques in determination of break-even points in steel industry; causes and effects of currency revaluation. Publ: Basic accounting, Iona Col, 60. Address: Graduate Division of Business Administration, Iona College, 715 North Ave, New Rochelle, N.Y. 10801.

BROWN, DR. ROBERT C(ONOVER), b. Fresno, Calif, Aug. 14, 26; m. 53; c. 2. ECONOMICS. B.S, California, 49; M.P.A, Harvard, 52, Ph.D.(econ), 57. Instr. econ, Chico State Col, 53-55; asst. cashier, Cent. Valley Nat. Bank, 55-57; credit analyst, Wells Fargo Bank, 57-59; ECONOMIST, STANFORD RES. INST, 59- Assoc. economist, Food Res. Inst, Stanford, 67-68. U.S.N.R, 44-45. Econ. Asn. Agricultural, land and water economics; credit and finance; economic development. Address: Stanford Research Institute, Menlo Park, Calif. 94025.

BROWN, PROF. ROBERT HAROLD, b. Rochester, N.Y, Sept. 16, 21; m. 45; c. 2. GEOGRAPHY. B.S, Minnesota, 48, M.A, 49; Ph.D, Chicago, 57. Instr. GEOG, St. Cloud State Col, 49-51, from asst. prof. to assoc. prof, 53-60, prof, 60-64; PROF. & CHMN. DEPT, WYOMING, 64- U.S.A, 39-45; U.S.A.F, 51-52, 1st Lt. Asn. Am. Geog; Coun. Geog. Ed; Regional Sci. Asn. Relating the dynamics of human areal association to various forms of political, urban and local geography. Publ: Atlas of Minnesota occupancy; Fundamentals of geographic education, J. Geog, 12/66; The Upsala, Minnesota community, Annals Asn. Am. Geog, 6/67. Address: Dept. of Geography, University of Wyoming, Laramie, Wyo. 82070.

BROWN, DR. ROBERT H(EATH), Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BROWN, DR. ROBERT LANE, Sociol, see 10th ed, Soc. & Behav. Vols.

BROWN, DR. ROBERT L(EE), b. Cullman, Ala, Sept. 6, 22. PSYCHOLOGY. B.A, Howard Col, 47; M.A, Alabama, 51; Ph.D, Purdue, 57. Machinist, LeTourneau Co, Ga, 39-41; Callahan Mach. Tool Co, 41-42; salesman, Edison Bros. Shoe Co, 42-46; teacher, Birmingham Bd. Ed, Ala, 46-47; asst. dir. vet. training rehab, Fairfield Bd. Ed, 47-49; writer, trade & indust. div, State Dept. Ed, 49-50; instr. psychol, Alabama, 50-52; prof, Furman, 52-59; DIR. & OWNER, BROWN & ASSOCS, 59- Psychol. Asn; Soc. Adv. Mgt. Development of systems for the measurement, prediction, and control of human behavior as it relates to management and marketing. Publ: Co-auth, Purdue mechanical performance test; Wrapper influence on the perception of freshness in bread, J. Appl. Psychol; Morale: a variable in quality control, Proc. Am. Soc. Qual. Control. Address: P.O. Box 5092, Station B, Greenville, S.C. 29606.

BROWN, DR. ROBERT R(OGERS), b. Peterborough, N.H, June 11, 18; m. 49; c. 3. GUIDANCE, COUNSELING. B.A, New Hampshire, 47; M.A, Columbia, 48; fel, Boston, 51-53, Ed.D, 54. Freshman adv. & residence hall counsr, Miami (Ohio), 48-50; resident hall dir. & counsr, State Col, Wash, 50-51; assoc. prof. ed. & counsr, Northern Illinois, 53-61; HEAD COUNSELING CENTER, MIAMI (OHIO), 61- U.S.A.A.F, 42-45. Psychol. Asn; Personnel & Guid. Asn. Student personnel programs; counselor training; mental hygiene. Address: Counseling Center, Miami University, Oxford, Ohio 45056.

BROWN, DR. ROGER HAMILTON, Am. Hist, see Suppl. V to 11th ed, Phys. & Biol. Vols.

BROWN, PROF. ROGER W(ILLIAM), b. Detroit, Mich, Apr. 14, 25. PSYCHOLOGY. A.B, Michigan, 47, M.A, 48, Ph.D.(psychol), 52; hon. M.A, Harvard, 62. Instr. psychol, Michigan, 51-52; soc. psychol, Harvard, 52-53, asst. prof, 53-57; assoc. prof, Mass. Inst. Tech, 57-61, PROF. psychol, 61-62; SOC. PSYCHOL, HARVARD, 62-, CHMN. DEPT. SOC. RELS, 67- Res. grants, Ford Found, 57, Nat. Inst. Ment. Health, 62-66 & Nat. Inst. Child Health & Human Develop, 67-72. U.S.N.R, 43-46, Ens. Psychol. Asn; Ling. Soc. Psychology of language; social psychology. Publ: Words and things, 58 & Social psychology, 65, Macmillan; co-auth, New directions in psychology, Holt, 62. Address: 100 Memorial Dr, Cambridge, Mass. 02142.

BROWN, PROF. RUSSELL E, b. Hartford, Conn, June 21, 21; m. 43; c. 1. ECONOMICS, POLITICAL SCIENCE. B.A, Bucknell 47, M.A, 52. ASSOC. PROF. ECON, LENOIR-RHYNE COL, 47- Vis. prof, Davidson Col, 57. U.S.A, 42-46, 1st Lt. Econ. Asn; Indust. Rels. Res. Asn. History of economic thought; labor relations in America. Address: Dept. of Economics, Lenoir-Rhyne College, Hickory, N.C. 28601.

BROWN, DR. SAM C, b. New York, N.Y, Apr. 16, 35; m. 58; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 57; Nat. Defense Ed. Act fels, Virginia, 61-63, M.A, 61, Nat. Inst. Ment. Health fel. & Ph.D.(exp. psychol), 63. Asst. prof. PSYCHOL, KANSAS STATE, 63-67, ASSOC. PROF, 67- Nat. Instr. Ment. Health res. grants, 64-70. U.S.A, 58-59. Psychol. Asn; Psychonomic Soc. Verbal learning and retention; experimental design. Publ: Second-list paired-associate facilitation produced by addition of previously learned first-list pairs, J. Verbal Learning & Verbal Behavior, 66; Cue utilization in serial learning, 67 & co-auth, Constant versus varied serial order in paired-associate learning: the effect of formal intralist similarity, 67, J. Exp. Psychol. Address: Dept. of Psychology, Kansas State University, Manhattan, Kans. 66502.

BROWN, DR. SAMUEL LOVITT, b. Topeka, Kans, Feb. 8, 15; m. 46; c. 4. ECONOMICS, STATISTICS. Ph.B, Rockhurst Col, 36; M.A, Georgetown, 39, fel, 47-48, Ph.D.(econ), 51. Instr. econ, col. arts & sci, Georgetown, 47-50; asst. prof. econ. & statist, 50-51; statistician, Chrysler Corp, 51-55, economist, 55-57; sr. staff mem, Coun. Econ. Adv. to President, 57-61; statistician, U.S. Bur. Census, 61-64; CHIEF ECON. RES. STAFF, CIVIL AERONAUT. BD, 64- Economist, joint econ. cmt, U.S. Cong, 49-50. Prof. lectr, Georgetown, 62-65. U.S.N, 43-46. Econ. Asn; Statist. Asn. Econometrics; studies of demand; prices; transportation economics and statistics; air transport demand and supply; forecasting; economic projections. Publ: Measuring elasticities of air travel, Am. Statist. Asn, 65; co-auth, Demand for air travel, a regression study, Hwy. Res. Bd, 68. Address: 1525 44th St. N.W, Washington, D.C. 20007.

BROWN, SIDNEY, b. New York, N.Y, Apr. 8, 19; m. 41; c. 1. ECONOMICS. B.A, Rutgers, 40, M.A, 41; N.Y. Univ, 48-53. Instr. econ, Bridgeport, 46-48; res. economist, Economists Nat. Cmt. Monetary Policy, 49-56; ASSOC. ED. ECON, COMMERCIAL & FINANCIAL CHRONICLE, 56- Adj. prof, Pace Col, 48- Consult, several investment banking firms. U.S.A, 41-46, Res, 54-, Lt. Col. Econ. Asn. Financial economics; monetary-fiscal policy; economic forecasts. Address: 210 Central Ave, Edison, N.J. 08817.

BROWN, DR. STEPHEN WOODY, b. Cleveland, Ohio, Aug. 3, 39; m. 63. PSYCHOLOGY, EDUCATION. B.A, Calif. State Col. Los Angeles, 62; Ph.D. (psychol), Southern California, 66. Design engr, Transformer Engrs, Inc, 59-61; jr. engr, Dressen-Barnes Electronics Co, 61-63; res. asst. psychol, Human Factors Res. Inc, 63-64; vis. asst. prof. PSYCHOL, Calif. State Col. Los Angeles, 64-65; ASST. PROF, CALIF. STATE COL. DOMINGUEZ HILLS, 66- Intern psychol, Pac. State Hosp, Calif, 62-63; res. psychologist, Southern California, 62-66; vis. instr. math, U.S. Armed Forces Inst, 63-64; res. coordinator ed, Proj. Reach, U.S. Off. Ed, 65-67. Res. consult. ed, Los Angeles Pace, Los County Supt. Schs, 66-67. Psychol. Asn; Ed. Res. Asn; Psychomet. Soc. Educational and psychological measurement. Publ: Co-auth, Workbook to accompany fundamental statistics, McGraw, 65 & A factor analytic investigation of semantic memory abilities, Univ. Southern California, 66; auth, Simplified computation formulas for chi square and related statistics, Ed. & Psychol. Measurement, 63. Address: Dept. of Psychology, California State College at Dominguez Hills, Dominguez Hills, Calif. 90247.

BROWN, PROF. T. MERRITT, b. Windsor, Ont, Oct. 22, 13; m. 42; c. 3. ECONOMICS. B.A, Western Ontario, 34; M.A, Toronto, 47; Ph.D.(econ), Australian Nat. Univ, 58. Head res. economet, Can. Dept. Trade & Commerce, 47-59; PROF. ECON, Royal Mil. Col, 59-62; Queen's (Ont), 67; WESTERN ONTARIO, 67- Economet. model bldg, Toronto, 66-67. Consult, KCS. Mgt. Consults, 63-64; Can. Dept. Finance, 65-66. R.C.A.F, 41-45, Flight Lt. Economet. Soc; Can. Econ. Asn. Construction and application of econometric models. Publ: Canadian economic growth, Queen's Printer, 65; Habit persistence and lags in consumer behavior, Econometrica, 62; Simultaneous least squares ... equation system estimation, Int. Econ. Rev, 62. Address: Dept. of Economics, University of Western Ontario, London, Ont, Can.

BROWN, DR. THELMA E(THELDA), b. Glouster, Ohio, Feb. 16, 08; m. 31; c. 2. GERONTOLOGY. B.S, Ohio, 30; fel. & M.S, Illinois, 32; Ph.D.(psychol), Kentucky, 38. Chief psychol. div, Longview State Hosp, Cincinnati, Ohio, 42-48; clin. psychol. sect, Vet. Admin. Hosp, Ft. Thomas, Ky, 48-54, Cincinnati, 54-62, chief psychologist geront, Ft. Thomas, 62-66; CO-OWNER & CONSULT, UNITED INDUST. SERV, 46- Lectr, eve. col, Cincinnati, 52-60, asst. prof, med. col, 54-67. Voc. consult, U.S. Soc. Security Dept, 66- Fel. Psychol. Asn; Nat. Coun. Family Rels. Adolescence; dynamics of ego development; psycho-social interactions. Publ: Co-auth, Brown personality study; auth, Self-administrating Rorschach Test; An index for assessing levels of ego functioning based on homeostatic principles, Psychiat. Digest, 3/66. Address: 731 Carew Tower, Cincinnati, Ohio 45202.

BROWN, PROF. THOMAS GLENN, b. Lebanon, Mo, June 6, 26; m. 50; c. 4. AGRICULTURAL ECONOMICS. B.S, Missouri, 49, M.S, 59; Ph.D.(econ), N.C. State, 67. County agent agr. exten, MISSOURI, 49-57, exten. specialist farm mgt, 57-61, assoc. prof. AGR. ECON, 61-67, PROF, 67-, PROG. LEADER, 61- Mem, Nat. Coord. Cmt. Electronic Data Processing in Farm Mgt. Ed. Progs, 66-69. Agr. Econ. Asn. Farm management education. Publ: Economic feasibility of fruit and vegetable in southeast Missouri, Univ. Missouri, 66. Address: Dept. of Agricultural Economics, 228 Mumford Hall, University of Missouri, Columbia, Mo. 65201.

BROWN, PROF. WADE LYNN, Radiobiol, psychol, see 11th ed, Phys. & Biol. Vols.

BROWN, DR. WEIR M(ESSICK), Econ, see 10th ed, Soc. & Behav. Vols.

BROWN, PROF. WELDON AMZY, b. Cycle, N.C, Jan. 29, 11; m. 33; c. 1. HISTORY, POLITICAL SCIENCE. A.B, Dartmouth Col, 33; M.A, North Carolina, 34, Ph.D, 36. Instr. HIST. & GOVT. & univ. rep, Alabama, 36-39; from asst. prof. to PROF, VA. POLYTECH, 39- Prof, exten. courses, Virginia, 44-; summer assoc. prof, Radford Col, 50-53. Hist. Asn. Colonial history, especially the peace efforts of the American revolution; rise of democratic freedom; the nature and implications of democracy and the current challenge of collectivism. Publ: Empire or independence: a study in the attempts at reconciliation; Democracy: man's great opportunity; Common cause: collectivism, menace or challenge. Address: Dept. of History, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

BROWN, DR. WILLIAM E(DWARD), b. Reynoldsville, Pa, Jan. 18, 12; m. 49; c. 1. PSYCHOLOGY. B.S, Pa. State Teachers Col, Indiana, 34; M.Ed, Pa. State Col, 38, D.Ed.(psychol), 49. Instr, high sch, Pa, 35-42, 46-47; Vet. Admin. appraiser, Pa. State Teachers Col, Indiana, 47-48; instr. psychol, Minn. State Teachers Col, St. Cloud, 49-50; staff psychologist, Rohrer, Hibler & Replogle, 50-52; PARTNER, WILLIAM, LYNDE & WILLIAMS, 52-U.S.A.A.F, 42-46. Psychol. Asn. Personality; counseling; educational psychology. Address: 9 Bryn Mawr Dr, Painesville, Ohio 44077.

BROWN, PROF. WILLIAM F(RANCIS), b. Seattle, Wash, Mar. 14, 11; m. 39; c. 2. MARKETING. A.B, California, Los Angeles, 33, M.A, 34; Ph.D.(mkt), Northwestern, 41. From lectr. to asst. prof, California, Los Angeles, 36-46; assoc. prof, Northwestern, 46-48; MKT, CALIFORNIA, LOS ANGELES, 48-58, PROF, 58- Fulbright lectr, Aix Marseille, 61-62. Ed, J. Mkt, 50-Econ. Asn; Mkt. Asn. Price policies; marketing legislation; consumer buying habits. Address: Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

BROWN, PROF. WILLIAM F(RANK), b. San Antonio, Tex, Sept. 13, 20; m. 47; c. 4. EDUCATIONAL PSYCHOLOGY. B.S, Trinity (Tex), 50; M.A, Texas, 52, Ed.D, 56. Lectr. ed. psychol, Texas, 52-54, res. assoc, testing & guid. bur, 53-54; psychologist, U.S. Air Force Sch. Aviation Med, Randolph Air Force Base, 54-55; assoc, training methods div, HumRRO, George Washington, 55-56, res. scientist, U.S. Army Air Defense Human Res. Unit, 56-58; assoc. prof. ED, SOUTHWEST TEX. STATE COL, 58-63, PROF, 63-, DIR. TESTING & GUID, 58-, COL. ADJUST. SEMINAR, 61-, EFFECTIVE STUDY MAT, 62-, UPWARD PROJ, 66- Consult, State Bd. Plumbing Exam, 53-55; res. consult, testing & guid. center, Tex. Lutheran Col, 61- U.S.A.A.F, 42-48, Capt. Psychol. Asn; Personnel & Guid. Asn. (Wimmer award, 67). Counseling techniques; research design; statistics; measurement and evaluation; job analysis; sociometrics; academic adjustment counseling through peer-group interaction. Publ: Effective study guide, workbook, test and instructor's manuel, 63 & Student counselor's handbook, 67, Effective Study Mat; co-auth, Survey of study habits and attitudes, Psychol. Corp, 67. Address: Testing & Guidance Center, Southwest Texas State College, San Marcos, Tex. 78666.

BROWN, PROF. WILLIAM G(ALEN), b.Larned, Kans, June 24, 24; m. 55. AGRICULTURAL ECONOMICS. B.S, Kansas State, 50; M.S, Iowa State, 53, Ph.D.(econ, statist), 55. Asst. AGR. ECON, Kansas State, 50; res. assoc, Iowa State, 53-54, asst, 54-55; asst. prof. OREGON STATE, 55-59, assoc. prof, 59-65, PROF, 65- Summer econ. consult, div. econ. res, Bur. Commercial Fisheries, 65. Agr. Econ. Asn.(award, 56). Economics; resource economics; production economics; econometrics. Publ: Method for dealing with time in determining optimum factor inputs, J. Farm Econ; co-auth, An economic evaluation of the Oregon salmon and steelhead sport fishery, Ore. Agr. Exp. Sta. Tech. Bull, 9/64. Address: 3051 Polk St, Corvallis, Ore. 97330.

BROWN, DR. WILLIAM H, JR, Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

BROWN, DR. W(ILLIAM) J(ENNINGS), b. Chicago, Ill, Dec. 14, 33; m. 56. ECONOMICS, FINANCE. A.B, Bowdoin Col, 55; A.M, Chicago, 59; Ph.D. (bus), N.Y. Univ, 67. Economist, McGraw-Hill Book Co, 59-64; assoc. economist, Am. Bankers Asn, 64-67; ASSOC. PROF. & COORDINATOR BUS. RES, COL. BUS, NORTHERN ILLINOIS, 67- Econ. Asn; Statist. Asn. Finance, especially banking; macroeconomic analysis. Publ: The McGraw-Hill dictionary of modern economics, McGraw, 65; Entry into commercial banking markets: an exploratory study, Am. Statist. Asn. Proc, 66; Confusion and control in the federal budgeting process, Nat. Tax J, 66. Address: College of Business, Northern Illinois University, De Kalb, Ill. 60115.

BROWN, DR. WILLIAM MOSELEY, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

BROWN, DR. W(ILLIAM) O(SCAR), b. Flatonia, Tex, Oct. 18, 99. SOCIOLOGY. A.B, Texas, 21; A.M. & B.D, Southern Methodist, 24; Ph.D, Chicago, 30. From instr. to asst. prof, Cincinnati, 25-35; res. analyst, Fed. Emergency Relief Admin. & Work Projs. Admin, 35-37; asst. prof. sociol, Howard, 37-44; chief Africa sect, Off. Strategic Serv, 44-46; sect. dependent territories & mid. East, div. int. labor, soc. & health affairs, U.S. Dept. State, 46-47, African br, div. res. Near E.Africa, 48-53; prof. sociol, BOSTON, 53-66, dir, African Studies Center, 53-65, EMER. PROF. AFRICAN STUDIES, 66- Rosenwald fel, P.R, 41-42. Consult, Ford Found, 53; consultative dir, Int. African Inst, 62-; mem. adv. coun. African affairs, U.S. Dept. State, 64- Sociol. Asn; Pop. Asn; African Studies Asn; Int. African Inst. Race problems; minorities; folk societies. Address: 121 Colbourne Crescent, Brookline, Mass. 02146.

BROWN, PROF. WILLIAM P, b. New York, N.Y, Dec. 31, 18; m. 43; c. 2. PUBLIC ADMINISTRATION, CRIMINOLOGY. B.A, N.Y. Univ, 44, M.P.A, 48, Ph.D, 60. From patrolman to inspector, New York Police Dept, 40-62; prof. pub. admin, grad. sch. pub. affairs, STATE UNIV. N.Y. ALBANY, 62-66, PROF. CRIMINAL JUSTICE, 66- U.S.N.R, 44-46. Address: 32 N. Helderberg Pkwy, Slingerlands, N.Y. 12159.

BROWNE, PROF. C(LARENCE) G(EORGE), Psychol, see 10th ed, Soc. & Behav. Vols.

BROWNE, DR. E(PPES) WAYLES, JR, b. Shreveport, La, Nov. 1, 09; m. 34, 62; c. 2. ECONOMICS, STATISTICS. A.B, Stanford, 29; M.B.A, Harvard, 32, M.P.A, 48, M.A, 49, Ph.D.(econ), 55. Economist, U.S. Senate, 55-65, antitrust & monopoly subcmt, 57-65; consult, Off. Econ. Opportunity, 65-66; sr. economist, Econ. Assocs, Inc, 66-67; ECONOMIST, ANTITRUST & MONOPOLY SUBCMT, U.S. SENATE, 67- U.S.A, 42-46, Maj, U.S.A.R, Ret. Econ. Asn; Statist. Asn; Economet. Soc; Asn. Evolutionary Econ. Industrial economics and statistics; business organization and control; natural resources. Publ: A national rubber policy. Address: 3700 Oliver St. N.W, Washington, D.C. 20015.

BROWNE, PROF. MARTHA STEFFY, b. Vienna, Austria, Dec. 12, 98; U.S. citizen; m. 21; c. 2. ECONOMICS. Ph.D.(econ), Vienna, 21; Columbia, 41-42. Lectr, exten. div, Virginia, 21-36; asst. prof. econ. & geog, Cincinnati, 42-44; res. analyst, U.S. Dept. State, 44-47; asst. prof. ECON, BROOKLYN COL, 47-54, assoc. prof, 54-62, PROF, 63- Lectr, Hunter Col, 48-49. Chmn. cmt. introd. econ, Brooklyn Col, 61- Am. Econ. Asn; Asn. Am. Geog; Am. Geog. Soc. Theory of economic planning; projection of demand for energy; regional development; transportation and location; planning for sustained growth in industrialized areas. Publ: Theorie der Staatlichen Wirtschafts Politik, Deuticke, Vienna, 29; co-auth, The place of foreign trade in the Japanese economy, Off. Res. & Intelligence, U.S. Dept. State, HF 3826, 46; auth, The future of U.S. energy supply, Oesterreichische Zeitschrift fuer Nationaloekonomie, 62. Address: Dept. of Economics, Brooklyn College, Brooklyn, N.Y. 11210.

BROWNE, DR. RICHARD G(IBBS), b. Springfield, Ill, July 27, 01; m. 29; c. 1. POLITICAL SCIENCE. A.B, Illinois, 22, scholar, 27-28, M.A, 28; fel, Northwestern, 35-36, Ph.D.(polit. sci), 36; D.H.L, Lincoln Col, 65; LL.D, Rockford Col, 65, Eureka Col, 66. Asst. prof. soc. sci, Ill. State Norm. Univ, 28-36, assoc. prof, 36-46, prof. & head dept, 46-51; exec. dir, Ill. Bd. Higher Ed, 62-65; MEM, ILL. JR. COL. BD, 65- Exec. officer, Ill. Teachers Col. Bd, 51-61. Consult, Va. State Coun. Higher Ed, 65-; Mich. State Bd. Ed, 66- Polit. Sci. Asn. State government; political parties. Publ: Co-auth, America in transaction; Our civic life and progress; The Illinois citizen. Address: 310 Florence St, Normal, Ill. 61761.

BROWNE, THEODORE D, b. New Kensington, Pa, Dec. 2, 32; m. 59; c. 2. ECONOMICS. B.S, Pa. State, 54; M.S, Colorado, 57. Personnel specialist, Martin Co, Colo, 58-64; RES. ECONOMIST, DENVER RES. INST, UNIV. DENVER, 64- U.S.M.C, 54-56; Res, 56-, Maj. Nat. Asn. Bus. Econ. Publ: Co-auth, Perception of the effects of weather on manufacturing: a study of five firms, Univ. Chicago, 66; auth, The changing research park, Indust. Res. 5/66. Address: 6965 S. Cook Way, Littleton, Colo. 80120.

BROWNE, DR. VINCENT JEFFERSON, b. Washington, D.C, July 21, 17; m. 43; c. 1. POLITICAL SCIENCE. A.B, Howard, 38; A.M, Harvard, 41, Ph.D.(govt), 46. Res. asst, Carnegie Corp, 39-40; instr. polit. sci, Howard, 41-42, asst. prof, 46-50, assoc. prof, 50-61; spec asst. field rels, Fed. Civil Defense Admin, 51-53; assoc. prof. polit. sci, Howard, 53-55, asst. to pres, 55-64, dir. for. affairs scholars prog, 64-67; DIR. CIVIL RIGHTS DOCUMENT. PROJ, FUND ADV. ED, 68- Prof, Hawaii, 61- Consult, Fed. Civil Defense Admin, For. Opers. Admin. & Cmn. Intergovt. Rels, 54-55; President's Cmn. Vet. Benefits, 55-56. U.S.A, 41-46, Capt. Soc. Pub. Admin; Polit. Sci. Asn. Public administration and constitutional law; public budgeting; civil rights. Publ: The control of the public budget, Pub. Affairs, 49; co-auth, Civil defense and urban vulnerability, 55 & The administration of veterans benefits, 65, U.S. Govt. Printing Off. Address: 3915 24th St. N.E, Washington, D.C. 20018.

BROWNE, PROF. W(ALTER) A(NDERSON), b. Houston, Mo, Feb. 15, 95; m. 26; c. 1. GEOGRAPHY. A.B, Southwest Mo. State Col, 24; M.A, Peabody Col, 27, Ph.D.(geog), 35; Wisconsin, 28-29. Assoc. prof. GEOG, Stephen F. Austin State Col, 27-37; prof, E. Carolina Col, 37-47; NORTHEAST MO. STATE TEACHERS COL, 47-65, EMER. PROF, 65- U.S.N, 17-19. Asn. Am. Geog; Nat. Coun. Geog. Ed. Publ: Chap. In: Global geography; Missouri geography. Address: Dept. of Geography, Northeast Missouri State Teachers College, Kirksville, Mo. 63501.

BROWNELL, PROF. JOSEPH W(ILLIAM), b. New Bremen, N.Y, May 25, 27; m. 55; c. 3. GEOGRAPHY. A.B, Syracuse, 50, M.A, 51, D.S.S, 58. Asst. prof. EARTH SCI, STATE UNIV. N.Y. COL. CORTLAND, 56-59, assoc. prof, 59-67, PROF, 67- State Univ. Res. Found. res. grant, 67-69. Summers, lectr, Manitoba, 57, 59, 66; Alberta, 60. U.S.N.R, 45-46, 51-52. Asn. Am. Geog; Geog. Soc; Nat. Coun. Geog. Ed; Can. Asn. Geog. Land use; hamlets in areas of agricultural decline. Publ: Co-auth, Physical geography laboratory manual; auth, Cultural midwest, J. Geog. Address: Dept. of Geography, State University of New York College at Cortland, Cortland, N.Y. 13045.

BROWNELL, ROSA PARSONS, b. Nashville, Tenn, May 4, 09; m. 61; c. 2. CLINICAL & EDUCATIONAL PSYCHOLOGY. A.B, Vanderbilt, 31; M.A, Peabody Col, 33; Kappa Alpha Theta fel, Stanford, 37-38; summers, Claremont & Occidental Cols, 43-47; San Diego State Col, 57-58. Asst. psychologist, demonstration sch, Peabody Col, 32-36; asst, Louisville City Schs, Ky, 36-37; clin. psychologist, San Diego city schs, 38-54, supv. psychologist, 54-65; CLIN. PSYCHOLOGIST, 65- Instr, exten, California, 44-47; summers, San Diego State Col, 45, 47; Rorschach workshops, Occidental Col, 46-47. Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Psychol. Asn; Soc. Proj. Tech; Int. Psychol. Asn. Clinical psychology with children and adolescents; remedial education; education of exceptional children including gifted. Publ: Co-auth, Pupil analyses in the Peabody Demonstration School. Address: 3544 Jennings St, San Diego, Calif. 92106.

BROWNELL, DEAN W(ILLIAM) A(RTHUR), b. Smethport, Pa, May 19, 95; m. 24; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Allegheny Col, 17, LL.D, 42; A.M, Chicago, 23, fel, 25-26, Ph.D.(ed. psychol), 26. Instr. ed, Illinois, 23-24; Chicago, 25; asst. prof. rural ed, Cornell, 26-27; ed. psychol, measurements & statist, Michigan, 27-28; prof. ed. psychol, Peabody Col, 28-30; Duke, 30-49, chmn. dept. ed, 47-49; prof. ed. psychol, Northwestern, 49-50; prof. ed. & dean sch. ed, CALIFORNIA, BERKELEY, 50-66, EMER. PROF. ED. & EMER. DEAN SCH. ED, 66- Vis. prof, Puerto Rico, 40-41; Victoria, 62-63. Pres, Ed. Res. Asn, 38. Res. awards, U.S. Off. Ed, 62 & 65. U.S.A, 18-19, 2nd Lt. AAAS; fel. Psychol. Asn. Psychology of school subjects; educational measurements; developmental psychology. Publ: Mathematics we need, Ginn, 65-67; Development of children's number ideas in the primary grades, Univ. Chicago; Meaningful vs. mechanical learning, Duke Univ. Res. Study in Ed. Address: Dept. of Education, University of California, Berkeley, Calif. 94720.

BROWNING, PROF. CHARLES J(OSEPH), b. Evansville, Ind, Nov. 12, 19; m. 43; c. 3. SOCIOLOGY. A.B, Bethany Col, 44; M.A, Southern California, 49, Ph.D.(sociol), 54. From asst. prof. to ASSOC. PROF. SOCIOL, Pasadena Col, 50-58; WHITTIER COL, 58- Consult, N.Mex. Sch. Boys, 65-68. Mem. bd. dirs, Coun. Soc. Work Ed, New York, 65-68. U.S.N.R, 44-46, Lt.(jg). Sociol. Asn; Soc. Study Social Probs. Criminology and delinquency; marriage and the family; sociology of religion. Address: 8041 S. Milliken Ave, Whittier, Calif. 90602.

BROWNING, DR. RUFUS CHARLES, b. East St. Louis, Ill, Jan. 19, 16; m. 43; c. 4. PSYCHOLOGY. A.B, Ill. Col, 40; M.P.S, Colorado, 49; Ph.D.(psychol), American Univ, 55. Chief exam, State Civil Serv. Cmn, Colo, 47-51; personnel psychologist, Adj. Gen. Off, U.S. Dept. Army, 51-60; asst. dir. personnel, Montgomery County Pub. Schs, Md, 60-63; ASST. SUPT. SCHS, WASH, D.C, 63- U.S.A, 41-45, Res, 45-, Col. Psychol. Asn; Nat. Ed. Asn. Personnel administration. Address: 2213 Parker Ave, Silver Spring, Md. 20902.

BROWNING, PROF. RUFUS P(UTNAM), b. Cleveland, Ohio, Mar. 16, 34; m. 56; c. 4. POLITICAL SCIENCE. A.B, Oberlin Col, 54; M.A, Yale, 55, Ph.D, 61. Asst. prof. POLIT. SCI, Wisconsin, 61-67; ASSOC. PROF, MICH. STATE, 67- Soc. Sci. Res. Coun. fel, 60-61; vis. asst. prof. bus. admin, California, Berkeley, 65-66; Nat. Sci. Found. res. grant, 65-67. Soc. Pub. Admin; Polit. Sci. Asn. Political behavior and psychology; computer simulation of political decision processes; public administration. Publ: Computer programs as theories of political processes, J. Polit, 8/64; co-auth, Power motivation and the political personality, Pub. Opinion Quart, spring 64; Political recruitment: a computer simulation, In: Simulation in the study of politics, Markham, 68. Address: Dept. of Political Science, Michigan State University, East Lansing, Mich. 48823.

BROWNLEE, PROF. O(SWALD) H(ARVEY), b. Moccasin, Mont, Apr. 14, 17; m. 39; c. 2. ECONOMICS. B.S, Mont. State Col, 38; Phi Kappa Phi fel, Wisconsin, 39, M.S, 39; Farm Found. fel, Chicago, 42; Ph.D.(econ), Iowa State Col, 45. Res. assoc. econ, Iowa State Col, 39-41, 43-45, asst. prof, 45-47; economist, Off. Price Admin, Wash, D.C, 42; asst. prof. ECON, Carnegie Inst. Tech, 47-48; Chicago, 48-50; PROF, MINNESOTA, MINNEAPOLIS, 50- Vis. prof, Indiana, 47; mem, Int. Coop. Admin. Mission, Chile, 56-57. Ed, Am. Econ. Rev, 57-60. Consult, Joint State Govt. Cmn, Pa, 48-; Archer-Daniels-Midland Co, 50-52. Econ. Asn; Economet. Soc. Statistical estimation of economic relations; factors affecting economic growth; government tax and expenditure policies and their effects upon national income and the price level. Publ: Economics of public finance; Theory of employment and stabilization policy & Taxation and the price level in the short run, J. Polit. Econ. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

BROWNLEE, DEAN R(EBECCA) JEAN, b. Philadelphia, Pa, July 22, 11. POLITICAL SCIENCE. Ph.D.(polit. sci), Pennsylvania, 42. Staff asst, U.S. Civil Serv, 42-45; assoc. POLIT. SCI. & personnel officer, col. women, PENNSYLVANIA, 46-59, ASST. PROF, 59-, DEAN COL. LIB. ARTS FOR WOMEN, 60- Polit. Sci. Asn. Address: 249 S. 38th St, Philadelphia, Pa. 19104.

BROWNLOW, DR. LOUIS, Pub. Admin, see 10th ed, Soc. & Behav. Vols, deceased 63.

BROWNSON, EUGENE C(HESTER), b. Rosedale, Kans, June 2, 16; m. 41. POLITICAL SCIENCE, ECONOMICS. A.B, Washington (St. Louis), 38, univ. scholar, 38-39, Van Blarcom scholar, 39-40, A.M, 40, univ. fel, 41. Asst. polit. sci, Washington (St. Louis), 38; asst. placement officer, personnel off, U.S. Off. Emergency Mgt, Wash, D.C, 41-42; instr. polit. sci, Alabama, 46; placement-personnel technician, cent. off. staff, Vet. Admin, 46-48; orgn. & methods exam, bur. naval personnel, U.S. Dept. Navy, 48-50, head orgn. sect. & asst. head, orgn. & methods br, 50-57, asst. head, mgt. improv. br, hosp. admin. div, bur. med. & surg, 57-61; asst. exec. officer, Regional Off. Africa & Europe, Int. Coop. Admin, 61-62; field mgt. officer, mgt. support div, Bur. Africa & Europe, Agency Int. Develop, 62-63, dependent ed. prog. officer, Off. Personnel Admin, 63-64; REGIONAL PROG. OFFICER S.AM, OFF. OVERSEAS SCHS, OFF. DEP. UNDERSECY ADMIN, U.S. DEPT. STATE, 64- U.S.N.R, 42-46, Res, 46-62, Lt. Polit. Sci. Asn. Public administration; organization and management; public personnel administration. Address: Tunlaw Park Apts, 3850 Tunlaw Rd. N.W, Washington, D.C. 20007.

BROXTON, DR. JUNE AMANDA, b. Montgomery, Ala, June 14, 33. PSYCHOLOGY. B.A, Agnes Scott Col, 54; M.A, George Peabody Col, 56; Ph.D. (psychol), Kentucky, 61. Asst. to dean students, George Peabody Col, 54-56; psychologist, West. State Hosp, Hopkinsville, Ky, 56-57; asst. prof. psychol, Miss. South. Col, 57-59; adv. to undergrad. women, Kentucky, 59-61; assoc. prof. psychol, Ala. Col, 61-66; clin. psychologist, East. State Psychiat. Hosp, Knoxville, Tenn, 66-67; asst. prof. psychol, Tennessee, 67; private practice psychol, 67- Psychologist, Shelby County Dept. Ed, Ala, 65-66. Mem. spec. ed. screening cmt, Miss. State Dept. Ed, 58-59. Psychol. Asn. Psychotherapy; psychodiagnostics; interpersonal attraction factors. Publ: Methods of predicting roommate compatibility for college freshmen, McKay, 65; Self concepts of freshmen women, J. Nat. Asn. Women Deans & Counsr, 6/63; A test of interpersonal attraction predictions derived from balance theory, J. Abnorm. & Soc. Psychol, 63 & 66. Address: 1631 Laurel Ave, Apt. 216, Knoxville, Tenn. 37916.

BROYLES, PROF. OWEN M(ILTON), b. Nev, July 27, 04; m. 50; c. 1. ECONOMICS. A.B, Nevada, 27; A.M, California, 30. From assoc. prof. to PROF. ECON, SAN JOSE STATE COL, 29- Fel, Sem. Fed. Reserve Bank, San Francisco, Calif, 51; inst. competitive enterprise, Claremont, 56. Mem, Gen. Elec. Conf. Innovations Teaching Econ, Stanford, summer, 66. Finance Asn. Address: Dept. of Economics, San Jose State College, San Jose, Calif. 95114.

BROZEK, PROF. JOSEF, b. Melnik, Czech, Aug. 14, 13; nat; m. 45; c. 3. PSYCHOLOGY. B.A, Masaryk Realgym, Czech, 32; Ph.D.(psychol), Charles Univ, Prague, 37; Pennsylvania, 39-40; Minnesota, 40-41, 43-44. Asst. philos, Charles Univ, Prague, 36-37; indust. psychologist, Bata Shoe Factories, Czech, 37-39; researcher, bur. ed, Minnesota, 41, jr. psychologist, physiol. hyg. lab, 42-43, assoc. scientist, 43-44, asst. prof, 44-49, assoc. prof, 49-56, prof, 56-59; prof. PSYCHOL. & chmn. dept, LEHIGH, 59-63, RES. PROF, 63- Vis. fel, Princeton, 66-67. Consult, Comtemporary Psychol, 59-; U.S. Pub. Health Serv, 63-; WHO, 65- Book rev. ed, Human Biol, 54-65. Civilian with Off. Sci. Res. & Develop; U.S.A; Qm.C; U.S.A.A.F; U.S.P.H.S, 42-46. Psychol. Asn; Asn. Phys. Anthrop; Physiol. Soc; Hist. Sci. Soc. History of psychology; current status of psychology in the Slavic countries and the Union of Soviet Socialist Republics; behavior in nutritional studies of man; nutritional anthropometry and body composition; aging. Publ: Symposium on nutrition and behavior; co-auth. & ed, Human body composition, Pergamon, 65; The biology of human variation, N.Y. Acad. Sci, 66. Address: Dept. of Psychology, Lehigh University, 111A Williams Hall, Bethlehem, Pa. 18015.

BROZEN, DR. YALE, b. Kansas City, Mo, July 6, 17. ECONOMICS. A.B, Chicago, 39, Ph.D, 42. Asst. prof. soc. sci, Florida, 41-42; econ, Ill. Inst. Tech, 42-45; assoc. prof, 45-46; Minnesota, 46-47; prof, Northwestern, 47-57; DIR. RES, CHICAGO, 57- Res. assoc, Soc. Sci. Res. Coun, 49; vis. prof, São Paulo, 54; Rikkyo Univ, Japan, 64. Consult, Am. Tel. & Tel. Co, 50-51; President's Mat. Policy Cmn, 51; antitrust div, U.S. Dept. Justice, 52; Nat. Sci. Found, 54- Sig.C, U.S.A, 42-43. Econ. Asn; Economet. Soc. Social and economic implications of technological change and atomic energy; invention, innovation and diffusion. Publ: Welfare theory, technological change and public utility investment, Land Econ; Adapting to technological change, J. Bus; Solutions for the Brazilian dollar shortage, Current Econ. Comment. Address: University of Chicago Graduate School of Business, Chicago, Ill. 60637.

BRUBAKER, DR. EARL R(OY), b. Reading, Pa, Jan. 1, 33; m. 55; c. 2. ECONOMICS. B.S, Pa. State, 54; Ph.D.(econ), Washington (Seattle), 64. Economist, U.S. Govt, 60-66; ASST. PROF. ECON, WISCONSIN, 66- U.S.A, 54-57. Econ. Asn. Soviet and American petroleum policy and performance; sources of Soviet economic growth. Publ: Co-auth, Available for work: the Pennsylvania unemployment compensation interpretation, Pa. State Univ, 58; Who is available for work, Pa. Bus. Surv, 12/58. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

BRUBAKER, PROF. ROBERT S(TEWART), b. Paris, Ill, Mar. 8, 24; m. 49; c. 2. SPEECH. B.A, Illinois, 48, M.A, 50, Ph.D.(speech sci), 52. Asst. prof. SPEECH SCI, PA. STATE, 52-56, assoc. prof, 56-65, PROF, 65- Staff engr, HRB-Singer, 56- U.S.A, 42-46. Acoustical Soc; Speech Asn; Speech & Hearing Asn. Acoustic and physiological characteristics of speech. Publ: Co-auth, Speech pathology, North Holland, 66; Vowel overlap, 56 & Divers' speech, 68, J. Acoustical Soc. Am. Address: Dept. of Speech, Pennsylvania State University, 308 Sparks Bldg, University Park, Pa. 16802.

BRUBAKER, DR. STERLING L(e ROY), b. Conway Springs, Kans, Sept. 26, 24; m. 50; c. 5. ECONOMICS. A.B, California, 47, Haynes Found. grant, 57-58,

Ph.D, 59. Res. economist, Bank Am, 52-57, assoc. economist, econ. res. dept, 58-60, dir. econ. res, 60-62; SR. RES. ASSOC, RESOURCES FOR THE FUTURE, INC, 62- U.S.A.A.F, 43-45, 1st Lt. Econ. Asn. Economic research, especially regional studies, short-term economic forecasting, money, banking and fiscal policy; international economics; resource economics; economic development. Publ: Trends in the world aluminum industry, Johns Hopkins, 67. Address: 11408 Rokeby Ave, Garrett Park, Md. 20766.

BRUCE, DR. DONALD K(ENNETH), b. Cheyenne, Wyo, June 14, 34; m. 56; c. 2. PSYCHOLOGY. B.A, Bowling Green State, 57, M.A, 60; Ph.D.(psychol), Utah, 65. Asst. psychologist, Lynchburg Training Sch. & Hosp, 58-60, assoc. psychologist, 60-61; intern clin. psychol, dept. psychiat, col. med, Utah, 63-64; ASST. CHIEF PSYCHOLOGIST, LYNCHBURG TRAINING SCH. HOSP, 65- Lectr, Lynchburg Col, 65- Psychol. Asn; Asn. Ment. Deficiency. Mental retardation; personality development; behavioral modification; practice of clinical psychology. Publ: Co-auth, Fees and university mental health clinics, J. Am. Col. Health Asn, 65. Address: P.O. Box 1098, Lynchburg, Va. 24505.

BRUCE, PROF. HAROLD R(OZELLE), Govt, see 10th ed, Soc. & Behav. Vols.

BRUCE, HARRY JAMES, b. Newark, N.J, July 2, 31; m. 55; c. 4. ECONOMICS. B.S, Kent State, 58; M.S, Tennessee, 59; Asst. to dir. transportation res. & planning, U.S. Steel Corp, 59-64; dir. mkt. develop, Spector Freight Syst, Inc, 64-67, V.PRES. MKT, SPECTOR INDUSTS, INC, 68- Fel, Acad. Polit. Sci, 59-; lectr, grad. sch. bus, Pittsburgh, 60-64; dept. commerce, Duquesne, 60-64. U.S.A, 52-55, 1st. Lt. Econ. Asn; Soc. Traffic & Transportation; Transportation Res. Forum. Determination of characteristics for experiment with new transport arrangements; transportation economic and engineering systems analysis; determination of prime market activities for expansion of domestic and international operations; analysis and development of new systems for optimal utilization in highway transport supply. Publ: How to apply statistics to physical distribution, Chilton, 67; E.D.P. a tool of distribution, Distribution Age, 65; co-auth, Shouldn't the product be profit?, Harvard Bus-Mgt. Thinking, 66. Address: 1059 Crestview Dr, Barrington, Ill. 60010.

BRUCE, DR. MARTIN M(ARC), b. New York, N.Y, Mar. 28, 23; m. 42; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 46; M.A, Columbia, 49; Ph.D, N.Y. Univ, 52. Chief psychologist eval, res. & counseling, Personnel Inst, Inc, 47-50; PUBLISHER, PSYCHOL. TESTING, 49- Lectr, Latin Am. Inst, 48-50; City Col. New York, 53-56; res. dir. eval. & counseling, Dunlap & Assocs, Inc, 50-59; v.pres. & dir. psychol. serv, Clark Channell, Inc, 57-59. Private practice, 49- U.S.A.A.F, 43-46. Psychol. Asn; Soc. Proj. Tech; Personnel & Guid. Asn. Test construction; clinical counseling; industrial psychological consulting. Publ: Human relations in small businesses, Small Bus. Admin, Govt. Printing Off, 68; Prediction of effectiveness as a factory foreman, Psychol. Monogr; Sales comprehension test, J. Appl. Psychol. Address: 340 Oxford Rd, New Rochelle, N.Y. 10804.

BRUCE, PROF. PAUL, b. Flint, Mich, Nov. 23, 25; m. 56; c. 3. CHILD PSYCHOLOGY, GUIDANCE. B.A, Antioch Col, 50; M.A, Claremont Cols, 53; summer, California, Los Angeles, 52-53; Los Angeles State Col, 54-55; Ph.D.(child psychol), Iowa, 57. Election exam, Nat. Labor Rels. Bd, 47; psychometrist, inst. psychol. serv, Ill. Inst. Tech, 48; clinician, Lab. Child Res, Ill, 50; teacher, pub. sch, Calif, 51-53, psychometrist, pub. sch. dist, 53-55; asst. child psychol, child welfare res. sta, Iowa, 55-57; asst. prof. ed. psychol, SAN DIEGO STATE COL, 57-62, assoc. prof, 62-66, PROF. COUNSELING & GUID, 66- Consult, Calif. State Employ. Serv, 64- U.S.A, 44-46. Psychol. Asn; Personnel & Guid. Asn; Nat. Ed. Asn. Child development; school psychology; school guidance; counselor education. Publ: Effects on behavior of varied classroom environments; Relationship of self-acceptance to other variables with sixth grade children, J. Ed. Psychol; Three forces in psychology and their ethical and educational implications, Ed. Forum, 3/66. Address: San Diego State College School of Education, San Diego, Calif. 92115.

BRUCE, DR. RITA GABRIK, b. Elco, Pa, Nov. 4, 27; m. 48; c. 2. DEVELOPMENTAL PSYCHOLOGY. Ed.D.(supv, sch. health), West Virginia, 65. ASST. PROF. DEVELOP. PSYCHOL. & ED. & SUPVR. STUDENT TEACHERS, WAYNESBURG COL, 61- Secondary education; supervision of student teachers; school health. Address: Dept. of Education, Waynesburg College, Waynesburg, Pa. 15370.

BRUCE, DEAN ROBERT H(ALL), b. Columbus, Ohio, July 28, 06; m. 32; c. 3. PSYCHOLOGY. A.B, Ohio State, 28, Ph.D.(psychol), 32; fel, California, 28-30, A.M, 30. Instr, Ohio State, 30-33; assoc. prof. psychol. & philos, WYOMING, 33-36, prof, 36-49, DEAN GRAD. SCH, 46-, head dept. psychol. & philos, 33-49. Mem. exec. cmt, Coun. Grad. Schs. U.S, 62-65; adv. cmt, U.S. Cmnr. Ed. Title IV, Nat. Defense Ed. Act, 63-66; dent. training cmt, Nat. Inst. Dent. Res, 63-66, adv. coun, 66-70. U.S.N.R, 42-45, Lt. Comdr. AAAS; fel. Psychol. Asn. Experimental and comparative psychology, with particular reference to motivation and perception. Address: University of Wyoming Graduate School, Laramie, Wyo. 82070.

BRUCE, DR. ROBERT W(ALLACE), b. Crown Point, Ind, Apr. 7, 00; m. 28; c. 2. PSYCHOLOGY. A.B, Wabash Col, 22; A.M, Chicago, 24, Ph.D, 29. Asst. prof. PSYCHOL, WABASH COL, 22-26, assoc. prof, 26-65, EMER. ASSOC. PROF, 65- AAAS; Anthrop. Asn; Psychonomic Soc; Acad. Relig. & Ment. Health. General and experimental psychology. Address: Dept. of Psychology, Wabash College, Crawfordsville, Ind. 47933.

BRUCE, DR. WILLIAM J(AMES), b. Portland, Ore, Mar. 8, 09; m. 52; c. 4. POLITICAL SCIENCE. M.A, Oregon, 34; Rosenberg fel, Stanford, 39-40, Ph.D.(polit. sci), 41. Instr. soc. sci, Oregon, 31-35; Stanford, 36-42; chief bus. enterprises div, War Relocation Authority, 42-43; prin. economist, U.S. Bur. Budget, 43-46; asst. dir, Statist. Off. UN, 47-64; PROF. POLIT. SCI. & DIR. CENTER INT. STUDIES, STATE UNIV. N.Y. COL. PLATTSBURGH, 64- Statist. orgn. adv, UN Tech Assistance Mission, Brit. N.Borneo Govt, 53-54; chief ed. sect, UN Dept. Pub. Info, 56-, exec. off, Secy. Gen, 60-61. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Public administration, organization and management; statistics. Address: M.R. 8 Cumberland Head, Plattsburgh, N.Y. 12901.

BRUCK, DR. MORRIS, b. Detroit, Mich, Jan. 7, 28; m. 51; c. 3. CLINICAL PSYCHOLOGY. B.S, Wayne State, 49, M.A, 51, Ph.D.(clin. psychol), 61. Tech. aide, training div, Off. Civil Defense, Mich, 51; clin. psychologist, Pontiac State Hosp, 51-52, supv. psychologist, 52-58, dir. psychol, 58-64; consult. psychologist, F. Chusid & Co, Ill, 64-65; CHIEF PSYCHOLOGIST, E. MOLINE STATE HOSP, 65- Private practice, 64- U.S.A, 46-47. Psychol. Asn. Psychotherapy and group process; administration; management development; personality theory. Publ: Note on modified instructions for Bender-Gestalt elaborations and associations, J. Proj. Tech; co-auth, Diazepam as an anti-convulsant and anti-anxiety agent in ECT, 65 & Therapeutic effects of different modes of chlorpromazine administration, 66, Diseases Nerv. Syst. Address: 2642 26th Ave, Rock Island, Ill. 61201.

BRUCK, DR. NICHOLAS K, b. May 25, 32; U.S. citizen; m; c. 2. ECONOMICS. B.A, Univ. Commerce, Vienna, 53, M.A, 56, Ph.D.(econ), 60; Marburg, 53; M.A, Duke, 54; Columbia, 57-58. Fulbright scholar, Duke, 53-54; asst. econ. affairs officer, bur. econ. affairs, UN Secretariat, N.Y, 56; asst. to pres, Shering Gesellschaft m.b.H, Vienna, Austria, 56-57; statist. analyst, purchasing div, West. Elec. Co, N.Y, 57-58, sect. chief cost anal, 61-62; from asst. to assoc. prof. econ, St. John's (N.Y), 62-66; supvry. economist, off. productivity, Bur. Labor Statist, D.C, 66; Fulbright vis. prof. econ, San Carlos, Guatemala, 67; DEVELOP. ECONOMIST, INTER-AM. DEVELOP. BANK, WASH, D.C, 68- Summers, UN intern, 56, Ford Found. res. fel, Harvard, 65. Adj.Gen.C, U.S.A. Econ. Asn; Soc. Int. Develop; Statist. Asn; Finance Asn; Economet. Soc. Economic development. Publ: International differences in capital-output ratios and their relationship to labor-output ratios, Harvard, 65; Sector changes in unit labor costs, In: Studies in income and wealth, Nat. Bur. Econ. Res, 66; co-auth, Foreign investment, capital controls, and the balance of payments, Bull, Inst. Finance, N.Y. Univ, 4/68. Address: 189 Steamboat Rd, Great Neck, L.I, N.Y. 11024.

BRUCKMAN, DR. IDEL R, b. San Antonio, Tex, June 13, 20; m. 41; c. 2. SOCIAL SCIENCE, PSYCHOLOGY. B.A, Texas, 41, M.A, 48; Ph.D.(psychol), London, 64. ASSOC. PROF. PSYCHOL, ST. MARY'S (TEX), 65- Consult, summer counseling & guid. prog, Edgewood Sch. Dist, 67. Am. Psychol. Asn; Brit. Psychol. Asn. A multi-faceted approach to the problem of early school leaving in Mexican-American children. Publ: The relationship between achievement motivation and sex, age, social class, school stream and intelligence, Brit. J. Soc. Clin. Psychol, 66. Address: Dept. of Psychology, St. Mary's University, 2700 Cincinnati Ave, San Antonio, Tex. 78228.

BRUDER, DR. GAIL A(NN), b. Brooklyn, N.Y, Apr. 9, 39. PSYCHOLOGY. B.S, Pittsburgh, 61, M.S, 62, Nat. Sci. Found. fel, 64-65, Ph.D.(psychol), 66. Prfnl. asst. test develop, Ed. Testing Serv, 62-63; ASST. PROF. PSYCHOL, STATE UNIV. N.Y. BUFFALO, 66- Psychol. Asn. Verbal learning and memory processes. Publ: Co-auth, The effect of repeated testing on anxiety scale scores, J. Consult. Psychol, 62; auth, Shifts in associative hierarchies overtime as a function of paired-associate training, (in press), & Supplementary report: comparisons of individual and cultural response hierarchies based on continued associations,(in press), J. Verbal Learning & Verbal Behav. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

BRUECKHEIMER, PROF. WILLIAM R(OGERS), b. Gary, Ind, Aug. 19, 21; m. 42; c. 3. GEOGRAPHY. M.A, Chicago, 49; M.A, Michigan, 52, fel, 52-53, Ph.D.(geog), 54. Instr. geog, Fla. State, 49-51; from asst. to assoc. prof, South. State Col, 53-55; asst. prof, Western Michigan, 55-58, prof. geog. & head dept. geog. & geol, 58-64; PROF. GEOG. & CHMN. DEPT, FLA. STATE, 64-, dir, Nat. Defense Ed. Act Summer Inst. Adv. Study Geog, 65 & 66. Sig.C, U.S.A, 43-46. Asn. Am. Geog; Geog. Soc; Coun. Geog. Ed. Economic and political geography; conservation of natural resources; population in relation to resources. Publ: The significance of the recreation industry in Alger County, Michigan; Conservation and the nature of social problems, J. Geog. Address: Dept. of Geography, Florida State University, Tallahassee, Fla. 32303.

BRUELL, PROF. JAN H(ERBERT), b. Bielsko, Poland, Dec. 27, 20; nat; m. 48; c. 2. PSYCHOLOGY. Dipl, Heidelberg, 49; Ph.D.(psychol), Clark, 53. Asst. prof. PSYCHOL, Case Western Reserve, 53-57, assoc. prof, 57-64, PROF, 64-68; TEXAS, AUSTIN, 68- Res. psychologist, High View Hosp, 54-68. Consult, Case Western Reserve, 61-68; Vet. Admin, 64-68. AAAS; Psychol. Asn; Soc. Human Genetics. Space perception; brain injury and behavior; behavior genetics. Publ: Notes toward a motor theory of visual egocentric localization, Psychol. Rev; Development of objective predictors of recovery in hemiplegic patients, Arch. Phys. Med. & Rehab; Behavioral heterosis, In: Ed, Jerry Hirsch, Behavior-genetic analysis, McGraw, 67. Address: Dept. of Psychology, University of Texas, Austin, Tex. 78712.

BRUENING, DR. JOSEPH HERBERT, b. Pittsburgh, Pa, Feb. 10, 29; m. 55; c. 3. SOCIOLOGY. B.S, Florida, 54, M.S, 56; Ph.D.(sociol), Miss. State, 67. Asst. sociologist, dept. sociol. & rural life, Miss. State, 56-60; ASSOC. PROF. SOCIOL, MISSISSIPPI, 60- Partner, Bio-Dynamics, Miss. Med.Serv.C, 51-52, Capt. AAAS; Parapsychol. Asn; Brit. Soc. Psychical Res. Demography; sociology of knowledge; psychical research; social research methods; biomedical research and development. Publ: Mississippi hospital administrator, Miss. Bus. Rev; co-auth, Hospital community relations in Mississippi, Rural Sociol. & Hospital care in Mississippi, Miss. Farm Res. Address: Dept. of Sociology, University of Mississippi, University, Miss. 38677.

BRUGGER, DR. THOMAS C, Psychiat, see 11th ed, Phys. & Biol. Vols.

BRUHN, DR. JOHN GLYNDON, b. Norfolk, Nebr, Apr. 27, 34. MEDICAL SOCIOLOGY. B.A, Nebraska, 56, M.A, 58; Commonwealth Fund fel, Yale, 58-60, U.S. Pub. Health Serv. fel, 61-62, Ph.D.(med. sociol), 61. Res. asst. psychiat, Nebr. Psychiat. Inst, 58; psychiat. outpatient clin, Grace-New

Haven Hosp, Conn, 60-61; Fulbright fel, med. res. coun. unit, Edinburgh, 61-62; instr. med. sociol, MED. SCH. OKLAHOMA, 62-64, asst. prof, 65-66, ASSOC. PROF PREV. MED. & PUB. HEALTH, 66-, SOCIOL. IN MED, NEUROCARDIOL. RES. CENTER, 63- U.S.A, 57-63. Pub. Health Asn; Psychosom. Soc; fel. Heart Asn; Asn. Am. Med. Cols. Social and psychosomatic medicine; epidemiology; social psychiatry. Address: Neurocardiology Research Center, University of Oklahoma Medical School, 800 N.E. 13th St, Oklahoma City, Okla. 73104.

BRUHN, PROF. MARCUS C, b. Chicago, Ill, Oct. 1, 12; m. 41; c. 2. ECONOMICS. B.Ed, Eau Claire Teachers Col, 34; M.A, Minnesota, 41; Ph.D. (econ), Wisconsin, 55. Asst. prof. econ, Carroll Col.(Wis), 46-49; assoc. prof, N.Cent. Col.(Ill), 50-57; PROF. & HEAD DEPT. ECON, AUGUSTANA COL.(ILL), 57- Consult, Gen. Elec. Found. summer seminar appl. econ, Chicago, 61. U.S.A, 42-46. Econ. Asn; fel. Royal Numis. Soc. International economics; balance of payments. Publ: Swedish balance of payments, 1920-1950. Address: Dept. of Economics, Augustana College, Rock Island, Ill. 61201.

BRUHNS, DR. KAREN OLSEN, b. Santa Rosa, Calif. Apr. 19, 41. ANTHROPOLOGY. A.B, California, Berkeley, 63, Ph.D.(anthrop), 67. ACTING ASST. PROF. ANTHROP, CALIFORNIA, LOS ANGELES, 67- Inst. Andean Studies. New World archaeology, especially the Northern Andes; European and classical culture history; Mesoamerica; primitive art; ethnopharmacology; transcontinental culture contact. Address: Dept. of Anthropology, University of California, Los Angeles, Calif. 90024.

BRUMAN, PROF. HENRY J(OHN), b. Berlin, Germany, Mar. 25, 13; nat. GEOGRAPHY. A.B, California, Los Angeles 35; Nat. Univ. Mexico, 34; Soc. Sci. Res. Coun. fel, California, 38-39, Ph.D.(geog), 40. Instr. geog, exten. div, California, 39-40; Pa. State Col, 40-41, asst. prof, 41-44; cultural geogr, inst. soc. anthrop, Smithsonian Inst. & M Proj, 44-45; asst. prof. GEOG, CALIFORNIA, LOS ANGELES, 45-49, assoc. prof, 49-55, PROF, 55-, chmn. dept, 57-61, coordinator, Colombia proj, 58-61, Brazil projs, 61-66, acting dir, Center Latin Am. Studies, 62-63, assoc. dir, 63-65, dir, Nat. Defense Ed. Act Lang. & Area Prog. Latin Am. Studies, 62-65, Univ. California Study Center, Göttingen, Germany, 66-68. Gast prof, Univ. Göttingen, 66-68. Mem, Nat. Acad. Sci-Nat. Res. Coun. adv. cmt. geog, U.S. Dept. State, 61-65. AAAS; fel. Asn. Am. Geog; fel. Geog. Soc; Asn. Pac. Coast Geog; Int. Geog. Union; hon. mem. Geog. Soc. Colombia. Possibilities of refugee settlement in Latin America; historical geography of Latin America. Address: 10749 Weyburn Ave, Los Angeles, Calif. 90024.

BRUNDAGE, DR. LYLE D, U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRUNER, PROF. EDWARD M, b. New York, N.Y, Sept. 28, 24; m. 48; c. 2. CULTURAL ANTHROPOLOGY. M.A, Ohio State, 50; Ph.D.(anthrop), Chicago, 54. Instr. ANTHROP, Chicago, 53-54; asst. prof, Yale, 54-60; fel, Center Adv. Study Behav. Scis, 60-61; assoc. prof, ILLINOIS, URBANA, 61-65, PROF, 65-, HEAD DEPT, 67- Nat. Sci. Found. fel, 60-61; sr. scholar, inst. adv. projs, East-West Center, Univ. Hawaii, 63-64; grants, Wenner Gen. Found. Anthrop. Res, 64; Nat. Inst. Ment. Health 65-66. Mem, cmt. faculty res. grants, Soc. Sci. Res. Coun, 66-67; Southeast Asia Develop. Adv. Group, 67-; chmn, cmt. grad. record exam. adv. test. anthrop, 67- Ethnol. Soc; fel. Anthrop. Asn. Culture change; urbanization; Southeast Asia. Publ: Primary group experience and the processes of acculturation & Urbanization and ethnic identity in North Sumatra, Am. Anthrop; The Mandans, In: Perspectives in American Indian Culture Change. Address: Dept. of Anthropology, University of Illinois, Urbana, Ill. 61801.

BRUNER, PROF. JEROME S(EYMOUR), b. New York, N.Y, Oct. 1, 15; m. 40, 60; c. 2. PSYCHOLOGY. A.B, Duke, 37; A.M. & Ph.D.(psychol), Harvard, 41; hon. L.H.D, Lesley Col, 65; hon. D.Sc, Northwestern, 65; hon. LL.D, Temple, 65; hon. D.Litt, Cincinnati, 66. Mem. staff, Fed. Commun. Cmn. & U.S. Dept. Agr, 42-43; assoc. dir, Off. Pub. Opinion Res, 43-44; mem. overseas br, Off. War Info, 44-45; lectr. PSYCHOL, HARVARD, 45-48, assoc. prof, 48-52, PROF, 52- Commonwealth fel, 48; mem, Inst. Adv. Study, 51-52; Guggenheim fel, Cambridge, 55-56. Consult, U.S. Dept. State; Dept. Defense; U.S. Dept. Navy; Gen. Elec. Co. Mem, White House Cmt. Ed,62-64. Managing ed, Pub. Opinion Quart, 43-44. Hon. officer de l'Instruction Publique, France. Fel. AAAS; fel. Psychol. Asn.(pres, 64-65; distinguished sci. award, 62); fel. Nat. Acad. Ed; hon. fel. Fed. Suisse de Psychol. Cognitive processes, especially perception, memory and thinking; developmental psychology; development of cognitive processes in infancy and childhood Publ: A study of thinking; co-auth, Studies in cognitive growth, Wiley, 66; Toward a theory of instruction, Harvard, 66. Address: William James Hall 1130, Harvard University, Cambridge, Mass. 02138.

BRUNHILD, PROF. GORDON, b. Chicago, Ill, May 2, 28; m. 51; c. 4. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Southern California, 49, M.B.A, 52, Ph.D, 57. Instr, Loyola (Calif), 53-54; bus. & econ, Woodbury Bus. Col, 54-57; asst. prof. econ, Southern Illinois, 57-60; assoc. prof, South Florida, 60-66; acting chief div. prog. anal, Small Bus. Admin, U.S. Fed. Govt, Wash, D.C, 66-67; PROF. econ, SOUTH FLORIDA, 67-68, FINANCE, 68- Lectr, Southern California, 57; Ford Found. summer fel, 62. Exec. dir, Fla. Coun. Econ. Ed, 65-66; mem, Assoc. Appraisers Impaired Earning Capacity, 65- U.S.A.F, 51-52. Econ. Asn; Finance Asn; Statist. Asn. Cost benefit analysis of government agencies such as the Small Business Administration. Publ: Co-auth, Manpower needs of Florida, Fla. State Bd. Control, 63; A theory of technical unemployment, Am. J. Econ. & Sociol, 7/67. Address: Dept. of Finance, University of South Florida, Tampa, Fla. 33620.

BRUNHOUSE, PROF. ROBERT L(EVERE), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRUNK, PROF. HUGH DANIEL, Statist, Math, see 11th ed, Phys. & Biol. Vols.

BRUNK, PROF. MAX EDWIN, b. Roswell, N.Mex, Sept. 12, 14; m. 41; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Florida, 38; M.S, Cornell, 41, Ph.D. (mkt), 47. Jr. statistician, Fed. Land Bank, S.C, 37-38; asst. prof. farm mgt, Florida, 41-44; assoc. prof. MKT, CORNELL, 47-50, PROF, 50- Gen. Ed. Bd. fel; pres, East. Mkt. Res. Serv, Inc; nat. analyst, P.R; consult, U.S. Dept. Agr. & Am. Meat Inst. Mem, Int. Conf. Farm Econ; mfg. & dist. cmt, U.S. Chamber Commerce, 65-, consumer affairs cmt, 66- Nat. Apple Inst. mkt. awards, 52 & 64; Hauck award, 53; Found. Floriculture award, 54; Am. Farm Bur. award, 65. Farm Econ. Asn. Marketing farm products; research methods in marketing; methods engineering. Publ: Marketing agricultural products. Address: 307 Warren Hall, Cornell University, Ithaca, N.Y. 14850.

BRUNN, DR. STANLEY D(AVID), b. Freeport, Ill, June 24, 39; m. 62. GEOGRAPHY. B.S, Eastern Illinois, 60; M.S, Wisconsin, 62; Ph.D.(geog), Ohio State, 66. Instr. GEOG, Ohio State, 65-66; ASST. PROF, FLORIDA, 66- Summer res. grants, Center Latin Am. Studies, Univ. Florida, 67 & Inst. Soc. Sci, 68. Asn. Am. Geog; Am. Geog. Soc; Am. Acad. Arts & Sci; Acad. Polit. & Soc. Sci; Sociol. Asn; Regional Sci. Asn; Rural Sociol. Soc. Urban-economic geography; social geography; quantitative methods; dynamics of central places; geography of retail services; urban dynamics of developing countries; population changes in the United States; voting patterns. Publ: A cultural plant geography of the Quince, Prfnl. Geogr, Vol. 15, 3: 16-18, 63; Origin and movement of fresh fruits to Chicago, J. Geog, Vol. 66, 3: 110-15, 67; co-auth, Rural Negro migration into southwestern Michigan, Geog. Rev, 4/68. Address: Dept. of Geography, University of Florida, Gainesville, Fla. 32601.

BRUNNER, PROF. EDMUND deS(CHWEINITZ), b. Bethlehem, Pa, Nov, 4, 89; m. 48; c. 2. RURAL SOCIOLOGY. A.B, Moravian Col. & Theol. Sem, 09, A.M, 12, Ph.D, 14, L.H.D, 35; hon. M.A, Queensland, 37; LL.D, Univ. Natal, 54. Dir, rural surys, Inst. Soc. & Relig. Res, 20-32; prof. sociol, grad. faculty polit. sci, COLUMBIA, 33-63, prof. ed, Teachers Col, 33-55, chmn. bur. appl. soc. res, 51-63, EMER. PROF, 63- Collab, bur. agr. econ, U.S. Dept. Agr, 36-50, adv. exten. serv, 42-51; lectr, univs, Australia & New Zealand, 37. Chief consult, inst. soc. res, Univ. Natal, 54. Trustee, Moravian Col, 47-65. Sociol. Asn; Rural Sociol. Soc.(past v.pres. & pres). Socio-economic interrelations in agriculture; rural community organization; village life and population. Publ: Co-auth, A study of rural society & American society, rural and urban patterns; Rural social trends, McGraw, 33. Address: 10 High Ridge Rd, Wilton, Conn. 06897.

BRUNNER, DR. JAMES A(LBERTUS), b. Columbus, Ohio, June 28, 23; m. 47; c. 3. INDUSTRIAL MARKETING. B.A. & B.S, Ohio State, 46, M.B.A, 47, Ph.D.(mkt), 55. Asst. prof, Otterbein Col, 47-51; MKT, TOLEDO, 51-55, assoc. prof, 55-60, PROF, 60-, CHMN. DEPT, 56-, act. chmn, 53-56. Mkt. Asn. Gerontology; sales forecasting; consumer research; marketing information systems. Address: 4653 Chapel Dr, Toledo, Ohio 43615.

BRUNNSCHWEILER, DR. D(IETER) H(EINZ), Geog, see 11th ed, Phys. & Biol. Vols.

BRUNS, DR. WILLIAM J(OHN), JR, b. Pasadena, Calif, July 13, 35; m. 57; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. A.B, Redlands, 57; Danforth fel, California, 57-62, Ph.D.(bus. admin), 63; M.B.A, Harvard, 59. Asst. prof. econ, Yale, 62-64, econ. & indust. admin, 64-66; ASSOC. PROF. ACCT, WASHINGTON (SEATTLE), 66- Econ. Asn; Am. Acct. Asn; Inst. Mgt. Sci. Accounting theory; managerial accounting and inventory valuation; economic theory of the firm; industrial organization and public policy; organization theory; decision making; business games. Publ: Accounting for decisions: a business game, Macmillan, 66; Inventory valuation and management decisions, Acct. Rev, 4/65; Accounting period concept and its effect on management decisions, In: Empirical research in accounting: selected studies 1966, 67. Address: Graduate School of Business Administration, University of Washington, Seattle, Wash. 98105.

BRUNSCHWIG, DR. LILY, b. Zurich, Switz, Jan. 8, 06; m. 40; c. 3. PSYCHOLOGY. A.B, George Washington, 27, A.M, 30; Ph.D.(psychol), Columbia, 36. Research, Columbia, 33-37; asst. prof. psychol, Fisk, 37-41; clin. psychologist, ment. hyg. div, U.S. Pub. Health Serv, 43-51; consult. psychologist, Infant Welfare Soc, Ill, 54-61; clin. psychologist, Cleveland Guid. Center, 61-62; sr. inst. PSYCHOL, sch. med. & univ. hosps, Case Western Reserve, 62, asst. prof, 65-67, clin. psychologist, 62-67; ASST. PROF. & CHIEF PSYCHOLOGIST, DEPT. PSYCHIAT. & NEUROL, WOMAN'S MED. COL. PA, 67- Lectr, grad. sch, U.S. Dept. Agr, 48-53. Consult, 51- Fel. Psychol. Asn; Soc. Proj. Tech. Measurement in clinical practice; personality development; parent-child relationships. Publ: Study of some personality aspects of deaf children. Address: Apt. B1201, Lincoln Dr. & Harvey St, Philadelphia, Pa. 19144.

BRUNSMAN, HOWARD G(EORGE), b. Cincinnati, Ohio, Aug. 26, 04; m. 27. STATISTICS, ECONOMICS. B.C.S, Ohio State, 27, M.A, 29; Columbia, 30-31. Statistician, bur. bus. res, Ohio State, 27-30, 31-34; assoc. dir. financial surv. urban housing, bur. for. & domestic commerce, U.S. Dept. Commerce, 34; div. res. & statist, Fed. Housing Admin, 34-39; chief housing statist. sect, POP. DIV, U.S. BUR. CENSUS, 39-43, asst. chief div, 43-48, chief div, 48-66, SPEC. ASST. DIRS. OFF, 66- Consult, cmt. statist. prog, New York. Mem. cmt. housing res, Soc. Sci. Res. Coun, 47-51. Fel. Statist. Asn; Pop. Asn; Int. Union Sci. Study Pop. Demography; housing. Address: 5715 Ninth St. N, Arlington, Va. 22205.

BRUNSWICK, DR. DAVID, Physiol, Psychol, see 11th ed, Phys. & Biol. Vols.

BRUSH, PROF. EDWARD N(EWCOMB), b. Rochester, N.Y, July 11, 04; m. 33; c. 2. PSYCHOLOGY. A.B, Vermont, 25; A.M, Harvard, 26, Ph.D.(psychol), 32. Intern psychol, Boston Psychopath. Hosp, 26-27, psychologist, 27-28; instr. PSYCHOL, MAINE, 28-29, asst. prof, 29-31, assoc. prof, 31-46, PROF, 46-, dean grad. study, 46-62. Res. assoc, Psychol. Corp. U.S.A, 36-42; Med.Serv.C.Res, Lt. Col. Psychol. Asn. Temporal judgment after sleep; differentiable mental abilities; clinical psychology; Rorschach test, theory and applications, especially with the partially blind. Address: Dept. of Psychology, University of Maine, Orono, Maine 04473.

BRUSH, PROF. F(RANKLIN) ROBERT, b. Phoenixville, Pa, Nov. 24, 29; m. 59. EXPERIMENTAL PSYCHOLOGY. A.B, Princeton, 51; M.A, Harvard, 53, Ph.D.(soc. psychol), 56. Res. assoc. psychol, McGill, 55-56; asst. prof, Maryland, 56-59; Pennsylvania, 59-65; assoc. prof. MED. PSYCHOL, MED. SCH, OREGON, 65-67, PROF, 67- Vis. scientist, regional primate res. center, Wisconsin, 64-65. AAAS; Psychol. Asn; Psychonomic Soc. Aversive learning and conditioning; psychophysiology of emotion and motivation; biochemistry and behavior. Publ: Effects of shock intensity on the acquisition and extinction of an avoidance response in dogs, 57 and co-auth, Effects of kind of prior training and intersession interval upon subsequent avoidance learning, 63, J. Comp. Physiol. Psychol. and Adrenocortical activity and avoidance learning as a function of time after fear conditioning, Physiol. Behav, 66. Address: Dept. of Medical Psychology, University of Oregon Medical School, 3181 S.W. Sam Jackson Park Rd, Portland, Ore. 97201.

BRUSH, DR. HELEN NELSON, b. Denver, Colo, Oct. 22, 08; m. 32; c. 2. PSYCHOLOGY. A.B, Ohio Wesleyan, 30; M.A, Denver, 51, Ed.D, 56. Teacher, high sch, Colo, 30-32; student counsr, Denver, 53-56; dir. counseling serv, Colo. Woman's Col, 56-65, ASSOC. PROF. PSYCHOL, TEMPLE BUELL COL, 56- Psychol. Asn; Nat. Asn. Women Deans & Counsr. Personality; social psychology. Address: 2047 S. Milwaukee, Apt. 14, Denver, Colo. 80210.

BRUSH, PROF. JOHN E(DWIN), b. Jefferson, Pa, Sept. 2, 19; m; c. 4. GEOGRAPHY. B.A, Chicago, 42; M.S, Wisconsin, 47, Ph.D.(geog), 52. Instr. GEOG, St. Louis, 50-51; lectr, RUTGERS, 51-52, asst. prof, 52-57, assoc. prof, 57-59, PROF, 59- Guggenheim Mem. fel, 57-58; fel, Am. Inst. Indian Studies, Poona, India, 65-66, faculty fel, 66, mem. exec. cmt, 66-67. Geog. Soc; Asn. Am. Geog; Pop. Asn; Asn. Asian Studies. Economic and regional geography of India; population, settlement and urban geography. Publ: Chap, In: The pattern of Asia; The population of New Jersey; co-auth, Service centers and consumer trips: studies on the Philadelphia metropolitan fringe, Univ. Chicago, 68. Address: Dept. of Geography, Rutgers, The State University, New Brunswick, N.J. 08903.

BRUSH, RUTH SEAMAN, b. Greenwich, Conn, Oct. 20, 06. SOCIOLOGY. B.A, Wellesley Col, 29; M.A, Columbia, 30. Jr. econ. analyst, bur. home econ, U.S. Dept. Agr, 34, asst. regional dir, study consumer purchases, 36, acting regional dir, 36-37; statistician, State Temporary Emergency Relief Admin, N.Y, 34-36; REGIONAL RES. ANALYST, SOC. & REHAB. SERV, U.S. DEPT. HEALTH, ED. & WELFARE, 37- Teacher, Lowe-Heywood Sch, 33-34. Summers, field worker, res. bur, Welfare Coun. New York, 30; dept. soc. sci, Columbia, 33; asst. to Dr. Frank Lorimer, 34; local supvr, Fed. Emergency Relief Admin, 34. Fel. Sociol. Asn; Statist. Asn; Pub. Welfare Asn; Nat. Asn. Soc. Workers. Public welfare; public assistance. Publ: Periodical outlets for social work research papers, Soc. Work J; Reasons for variation in the number of payments of aid to the blind, Outlook for Blind; Aid to the blind in New England, Soc. Security Bull. Address: Social & Rehabilitation Services, U.S. Dept. of Health, Education & Welfare, John F. Kennedy Federal Bldg, Boston, Mass. 02203.

BRUTON, PROF. HENRY J(ACKSON), b. Dallas, Tex, Aug. 30, 21; m. 59. ECONOMICS. B.A, Texas, 43; A.M, Indiana, 47; fel, Harvard, 49-52, Ph.D, 52. Asst. prof. econ, Yale, 52-58; inst. financial adv, Int. Coop. Admin, Tehran, Iran, 58-60; prof. econ, Bombay, 60-61; joint dir, Inst. Develop. Econ, Pakistan, 61-62; assoc. prof. ECON, WILLIAMS COL, 62-65, PROF, 65- Vis. prof, Chile, 65-67. Coun. For. Rels; Econ. Asn; Royal Econ. Soc. Economic development; international trade. Publ: Inflation in a growing economy; Principles of development economics, Prentice-Hall, 65; Productivity growth in Latin America, Am. Econ. Rev, 67. Address: Dept. of Economics, Williams College, Williamstown, Mass. 01267.

BRUTTEN, PROF. GENE J, b. New York, N.Y, May 28, 28; m. 56; c. 2. SPEECH PATHOLOGY, PSYCHOLOGY. B.A, Kent State, 50; fel, Columbia, 52; M.A, Brooklyn Col, 52; fel, Illinois, 53, Ph.D.(speech & hearing path), 57. Instr. speech & hearing path, Adelphi Col, 53-54; asst. prof, State Univ. N.Y. Teachers Col.(Cortland), 54-56; Southern Illinois, 57-62, assoc. prof. & coordinator speech & hearing serv, 62-64, prof, 65; prof. & dir. SPEECH & HEARING PATH, Hunter Col, 66-67; RES. PROF, SOUTHERN ILLINOIS, 67- Vis. prof, summer session, Minnesota, 64; lectr. & consult, Tex. Tech. Col, Maryland, Kent State, Buffalo State Col, Indiana, Rutgers, Howard & Nebraska. Consult, Marion Mem. Hosp, 57- Mem. prog. cmt, Int. Cong. Stuttering & Behavior Ther, 66. Psychol. Asn; Speech Asn; Speech & Hearing Asn. Behavior theory and therapy; acquisition and modification of adaptive and mal-adaptive speech behavior; classical and instrumental contingencies determining stuttering; psychological correlates of stuttering; Palmar sweat index of emotion. Publ: Co-auth, The modification of stuttering, Prentice-Hall, 67; auth, Palmar sweat investigation of disfluency and expectancy adaptation, J. Speech & Hearing Res, 63; co-auth, Stuttering, In: Speech pathology, North-Holland, 66. Address: Dept. of Speech Pathology & Audiology, Southern Illinois University, Carbondale, Ill. 62901.

BRUTTEN, DR. MILTON (NORBERT), b. New York, N.Y, May 20, 22; m. 47; c. 3. CLINICAL PSYCHOLOGY, SPEECH PATHOLOGY. Ph.D.(audiol), Northwestern, 51. Clin. psychologist, Devereux Schs, Devon, Pa, 51-53; sr. audiologist, commonwealth speech & hearing center, St. Christophers Hosp. Children, Phila, Pa, 53-58, dir. child study dept, Pa. Sch. Deaf, 58-60; clin. dir. & co-founder, Vanguard Sch, 60-67; ADJ. ASSOC. PROF. PEDIAT, SCH. MED, TEMPLE, 67-, lectr, dept. speech. Consult, Home Merciful Saviour, Pa. U.S.A, 42-45. Psychol. Asn; Soc. Clin. & Exp. Hypnosis; Speech & Hearing Asn; Coun. Except. Children. Communicative disabilities & special education of children and associated educational problems; special education of children with specific learning disabilities rooted in central nervous system impairment and deviated psychological development. Publ: Visual disturbances in deaf children; Aphasia in childhood. Address: 321 W. Lancaster Ave, Wayne, Pa. 19087.

BRUYERE, DR. DONALD EUGENE, b. Detroit, Mich, Apr. 19, 29; m. 56; c. 4. GEOGRAPHY. B.A, Wayne State, 51, M.A, 52; fel, Michigan, 56-58, grant & Ph.D.(geog), 58. Instr. geog, Oregon, 55-56; Modesto Jr. Col, 58-61; res. in pop, Metrop. Water Dist. South. Calif, 61-64; PROF. GEOG, WIS. STATE, OSHKOSH, 64-, faculty res. grant, 65. Summer instr, Wayne State, 57-58. U.S.A, 52-54, S/Sgt. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Population, urban and economic geography. Publ: Trend of rural and urban population in Michigan from 1940 to 1950, 53 & Sequent occupance of Skagway, Alaska, 60, Mich. Acad. Sci, Arts & Letters; Influence of economic change on the population of southeastern Alaska, Calif. Coun. Geog. Teachers, 62. Address: Dept. of Geography, Wisconsin State University, Oshkosh, Wis. 54901.

BRUYN, PROF. SEVERYN TENHOUT, b. Minneapolis, Minn, Oct. 26, 27; m. 51; c. 3. SOCIOLOGY. B.S, Illinois, 50, M.A, 51, Ph.D.(sociol), 59. Asst. prof. sociol, Ill. Col, 52-54, assoc. prof, 54-59, prof, 59-66, dir. prog. community develop, 51-55; PROF. SOCIOL, BOSTON COL, 66- Vis. fel, Yale, 64. Consult. community develop, Ill. Dept. Pub. Welfare, 56-57; Wis. Dept. Pub. Welfare, summer, 58; community planning, Emil Hanslin & Assocs, 67-68. Sig.C, U.S.A, 45-47. Sociol. Asn; Soc. Study Social Probs; Soc. Sci. Study Relig. Community development; sociological theory; social institutions. Publ: Communities in action, Col. & Univ, 63; The human perspective: the methodology of participant observation, Prentice-Hall, 66. Address: 46 Glenwood Ave, Newton Centre, Mass. 02159.

BRY, PROF. GERHARD, b. Berlin, Germany, June 29, 11; nat; m. 39; c. 2. ECONOMICS. Ph.D, Columbia, 55. Instr. econ, Brooklyn Col, 43-45; sr. analyst, Econometr. Inst, 45-48; dir. mkt. res, Conmar Prod. Corp, 53-54; from lectr. to assoc. prof. ECON, Rutgers, 55-61; PROF, N.Y. UNIV, 61- Mem. staff, Nat. Bur. Econ. Res, 52-67. Consult, 48- Econ. Asn; Statist. Asn. Labor market and business economics. Publ: Wages in Germany, 1871-1945; The average workweek as an economic indicator, Nat. Bur. Econ. Res; Economic indicators for New Jersey, N.J. Dept. Labor & Indust, 64. Address: Dept. of Economics, Graduate School of Business Administration, New York University, 100 Trinity Ave, New York, N.Y. 10006.

BRY, DR. ILSE, b. Berlin, Germany, Sept. 14, 05; nat. PSYCHOLOGY. Ph.D, Vienna, 29; B.S, Columbia, 42, M.A, 47. Asst, pub. library, Germany, 29-33; cataloger, univ. libraries, Columbia, 42-46; asst. ed, Psychol. Abstracts, Am. Psychol. Asn, 46-47; librn, N.Y. Psychoanal. Inst, 47-53; assoc. in charge neuropsychiat. library, N.Y. Univ-Bellevue Med. Center, 53-57; ED. & CHMN. ED. CMT, MENT. HEALTH BOOK REV. INDEX, 57-; RES. SCIENTIST, RES. CENTER MENT. HEALTH, N.Y. UNIV, 63- Dir. res, Coun. Res. Bibliog, 65- AAAS; Psychol. Asn; Soc. Sci. Study Relig; Soc. Soc. Responsibility in Sci; Soc. Gen. Syst. Res; Fedn. Am. Sci; Document. Inst; Hist. Sci. Soc. History, literature, bibliography and structure of the behavioral sciences; application of behavioral science concepts and social science methods to problems of scientific organization and communication; history of ideas. Publ: To foster human greatness, In: Insight, 62; co-auth, Freud and the history of ideas: primary sources, 1886-1910, In: Science & psychoanalysis, 62; auth, Bibliographic issues in the behavioral sciences, In: International encyclopedia of the social sciences, 68. Address: Research Center for Mental Health, New York University, Washington Square, New York, N.Y. 10003.

BRYAN, DR. ALAN LYLE, b. Friday Harbor, Wash, June 21, 28; m. 61; c. 1. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Washington (Seattle), 51, M.A, 54; Ph.D.(anthrop), Harvard, 62. Asst. prof. ANTHROP, ALBERTA, 63-67, ASSOC. PROF, 67- Nat. Sci. Found. res. grant, 65-67. U.S.A, 46-48, T/Sgt. Soc. Am. Archaeol; Anthrop. Asn; Arctic Inst. N.Am. Elucidating the problem of when man first came to America; technologcially simple human cultures of American and the world. Publ: Paleo-American prehistory, Idaho State Univ. Mus, 65. Address: Dept. of Anthropology, University of Alberta, Edmonton, Alta, Can.

BRYAN, PROF. ALICE I(SABEL), b. Arlington, N.J, Sept. 11, 02. PSYCHOLOGY. B.S, Columbia, 29, A.M, 30, Ph.D, 34; M.A, Chicago, 51. Instr. psychol, Child Ed. Found, 29-39; consult. psychologist, SCH. LIBRARY SERV, COLUMBIA, 36-39, asst. prof, 39-53, assoc. prof, 53-59, PROF, 59- Instr, Sarah Lawrence Col, 34-35; head dept. psychol, Pratt Inst, 36-39; dir. personnel study, pub. library inquiry, Soc. Sci. Res. Coun, 48-50; assoc. dir. Russell Sage Commun. Study, 50-56. Consult, library exten. div, State Ed. Dept, N.Y, 47-49. AAAS; Psychol. Asn; Asn. Appl. Psychol.(exec. secy); Library Asn. Library personnel and personnel administration; public communication; human relations; mental organization. Publ: Legibility of library of congress cards and their reproductions; Public librarian; Organization of memory in young children. Address: School of Library Service, Columbia University, New York, N.Y. 10027.

BRYAN, DR. B(EATRICE) IRENE, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

BRYAN, PROF. CARTER R, b. Peoria, Ill, June 17, 11; m. 50; c. 4. JOURNALISM, ECONOMICS. B.A, California, Berkeley, 37; Inst. Int. Ed. fel. & Rer.Pol.D.(econ, polit. sci), Vienna, 40. Vienna correspondent, New York Times, 38-40; ed. for. commerce Weekly, U.S. Dept. Commerce, 40-42, chief economist, Am. Repub. Unit, 42-43; prin. info. specialist, Off. War Info, 43; chief Italian sect, For. Econ. Admin, 43-44, chief Balkans Div, 44-45, chief economist, Austrian Mission, 45-46; econ. ed, World Report, 46; for. trade adv, U.S. Mil. Govt, Korea, 46-47; chief printing mfg. br, Supreme Comdr. Allied Powers, Tokyo, 47-48; polit. & econ. intel, off. dir. intel, Commander-in-Chief Europe, 48-51; planning & rev. staff, Nat. Prod. Authority, 51-52; real estate developer, Tor Bryan Estates, 52-55; instr. JOURNALISM, MARYLAND, 55-58, asst. prof, 58-61, assoc. prof, 61-64, PROF, 64- Vienna correspondent, London Times, 38-39 & Int. News Serv, 38-40. Econ. Asn; Asn. Ed. Journalism. Foreign trade; the foreign press; international communications; history of American journalism. Publ: Economic handbooks, Central America, Bd. Econ. Warfare, 43; A factual survey, U.S. Press, Off. War Info, 43; co-auth, The foreign press, La. State Univ, 64. Address: Dept. of Journalism, University of Maryland, College Park, Md. 20742.

BRYAN, DR. GLENN L(eVAN), b. Canton, Ohio, Jan. 10, 21; m. 43; c. 3. PSYCHOLOGY. A.B, Col. Wooster, 43; Ph.D.(psychol), Southern California,

51. Asst, Southern California, 48-51, res. assoc, 51-52, asst. prof. psychol, 52-54, assoc. prof, 54-59; HEAD PERSONNEL & TRAINING BR, U.S. OFF. NAVAL RES, 59- Vis. res. scholar, Inst. Math. Studies in Soc. Sci, Stanford, 67-68. U.S.A, 42-46. Psychol. Asn; Psychomet. Soc; Statist. Asn; Human Factors Soc; Aerospace Med. Asn; Opers. Res. Soc. Human factors in maintenance and operation of electronic equipment and aircraft; behavioristics; interactive, adaptive man-machine systems in support of cognitive functions. Address: Code 458, Office of Naval Research, Washington, D.C. 20360.

BRYAN, PROF. GORDON K(EY), b. Cleburne, Tex, Dec. 20, 06; m. 29; c. 1. GOVERNMENT. A.B, Texas, 29, A.M, 30; Ph.D, California, Los Angeles, 49. Instr. soc. sci, Cleburne, 30-37; GOVT, MISS. STATE, 37-38, asst. prof, 38-42, assoc. prof, 42-49, act. head dept, 42-45, act. prof, 49-50, PROF, 50-, HEAD DEPT. POLIT. SCI, 63-, dir. curriculum hist, col. training detachment, U.S. Army Air Force, 42-44. Ed. supvr, eng. sci. & mgt. war training, U.S. Off. Ed, 41-45; summer, vis. prof, Vanderbilt, 55. Consult, Miss. Econ. Coun, 45- Polit. Sci. Asn. American government and administration; county government, administration and finances in Mississippi. Publ: Trends in county revenues and expenditures in Mississippi, 50-59, Miss. State Univ, 63. Address: P.O. Box 114, State College, Miss. 39762.

BRYAN, DR. JAMES HOMER, b. Oakland, Calif, Sept. 15, 33; m. 58; c. 2. PSYCHOLOGY. B.A, California, 54; M.A, San Francisco State Col, 56; U.S. Pub. Health Serv. fel, Pa. State, 60-61, Ph.D, 61. Specialist clin. psychol, Madigan Army Hosp, Saratoga, Calif, 57-58; intake worker, Pa. State, 59-60; instr. PSYCHOL, neuropsychiat. inst, sch. med, California, Los Angeles, 61-64; ASST. PROF, NORTHWESTERN, 64- U.S.A, 56-58, Res, 58-, 1st Lt. Psychol. Asn. Verbal and autonomic conditioning; diagnostic testing. Publ: Co-auth, Anxiety and the spiral aftereffect test, J. Consult. Psychol; Theory and research on the clinical use of the Archimedes Spiral, J. Gen. Psychol. Address: Dept. of Psychology, Northwestern University, Evanston, Ill. 60201.

BRYAN, DR. JOSEPH G(ERARD), b. Winnipeg, Man, June 17, 16; U.S. citizen; m. 44; c. 4. STATISTICS. S.B, Mass. Inst. Tech, 38; Ed.M, Harvard, 42, Ed.D, 50. Mem. staff, div. indust. coop, Mass. Inst. Tech, 42-46, dep. dir. statist. lab, 46-55, res. mathematician, div. sponsored res, 55-57; opers. res. analyst, cent. res. lab, Am. Mach. & Foundry Co, 57-60; consult. scientist, TRAVELERS RES. CENTER, INC, 60-66, RES. FEL, 66- Adj. prof, Hartford Grad. Center, Rensselaer Polytech, 61- AAAS; Statist. Asn; Opers. Res. Soc; Biomet. Soc; Psychomet. Soc; Meteorol. Soc; Inst. Math. Statist. Applied mathematics; meteorology; operations research. Publ: Co-auth, Introduction to probability and random variables, McGraw, 60; auth, Statistical test of the hypothesis that a time series is stationary, Geophysics, 6/67; co-auth, Research on the prediction of rare events to improve forecasts of low ceiling and visibility, Travelers Res. Center, 9/67. Address: Mathematics Sciences Dept, Travelers Research Center, 250 Constitution Plaza, Hartford, Conn. 06103.

BRYAN, PROF. LESLIE A(ULLS), b. Bath, N.Y, Feb. 23, 00; m. 31; c. 2. TRANSPORTATION ECONOMICS, LAW. B.S, Syracuse, 23, M.S, 24, LL.B, 39; Ph.D.(transportation econ), American Univ, 30. Prof. bus. admin, Southwest. Col.(Kans), 24-25; instr. transportation, Syracuse, 25-28, asst. prof, 28-31, assoc. prof, 31-39, prof, 39-45, Franklin prof, 45-46; PROF. MGT. & DIR. INST. AVIATION, ILLINOIS, URBANA, 46- Pres, Seneca Flying Sch, N.Y, 43-46; dir. aviation, State of N.Y, 45; staff lectr, Air Univ, 56-59. Consult, Nat. Resources Planning Bd, 42-43; Armed Forces Inst, 48-49; New Horizon's Publishers, Inc, 67- Mem. bd. aeronaut. adv, State of Ill, 49-; President's Task Force Nat. Aviation Goals, 61; adv. bd, Air Training Command, 64- Distinguished serv. award, Civil Air Patrol, 54; Arents medal & citation, Syracuse, 55; distinguished pub. serv. award, Fed. Aviation Admin, 65; Elder statesman of aviation award, Nat. Aeronaut. Asn, 66. U.S.A, 17-18; U.S.A.F.R, Col. Econ. Asn; Inst. Aeronaut. & Astronaut; Acad. Mgt. Economics of air transportation. Publ: Principles of water transportation, Ronald, 39; Air transportation, Prentice-Hall, 49; Traffic management in industry, Holt, 52. Address: 1016 W. John St, Champaign, Ill. 61820.

BRYAN, PROF. RICHARD W(ALKER), b. Dalton, Ga, Nov. 10, 92; m. 27; c. 1. ECONOMICS, FINANCE. Ph.B, Emory, 16; Ga. Inst. Tech, 20-21; summers, Columbia, 21-38; M.S, N.Y. Univ, 23, Inst. Int. Finance scholar, 33-34, Ph.D, 49. Assoc. prof. econ. & bus. admin, Ala. Polytech, 34-35; head dept, Tampa, 35-40; commerce & bus, Bridgeport, 40-46; commerce, Catawba Col, 46-47; prof. econ, La. Polytech, 47-58; prof. bus. admin. & chmn. div, Athens Col, 58-67; PROF. ECON. & BUS. ADMIN, MARTIN COL, 67- Econ. Asn; Am. Acct. Asn. Corporate finance and investments; money and banking; pure economics. Publ: Dynamic investments, South. Econ. J. Address: Dept. of Business Administration, Martin College, Pulaski, Tenn. 38478.

BRYAN, DR. ROBERT F(ESSLER), b. U.S, Jan. 19, 13; m. 40; c. 2. ECONOMICS. A.B, Oberlin Col, 34; Strathcona fel, Yale, 34-35, Ph.D.(econ), 39. Economist & v.pres, Lionel D. Edie & Co, N.Y, 39-41, 43-48; price exec, rubber br, Off. Price Admin. 41-43; assoc, J.H. Whitney & Co, 48-51, partner, 51-59; FINANCIAL V.PRES, WHITNEY COMMUN. CORP, 59- Econ. Asn. Business finance; monetary policy. Publ: Rate base as an earnings base, Quart. J. Econ; Postwar corporate profits tax, Analysts J; Risk capital investor, J. Accountancy. Address: 600 Purchase St, Rye, N.Y. 10580.

BRYAN, PROF. THOMAS CONN, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BRYAN, PROF. WILLIAM A(DAMS), b. Chicago, Ill, Feb. 5, 17; m. 42; c. 2. GEOGRAPHY. A.B, Princeton, 40; M.S, Northwestern, 42. Instr. geog, Syracuse, 42-44; Northwestern, 44-46; Pa. State, 46-48; asst. prof. geog, geol. & astron, Bucknell, 48-49; head dept. phys. sci, Marlboro Col, 49-51; asst. to pres. & cartog. engr, Nat. Surv, 51-54; from asst. to ASSOC. PROF. GEOG, NORWICH, 54- Field asst, Newf. Geog. Surv, 39; consult. & engr, State Hwy. Planning Div, Vt, 54- Consult. asst, Nat. Resources Planning Bd, 41; consult, Britannica Jr, 44-52. U.S.N.R, 44. Asn. Am. Geog. Climatology; geomorphology; cartography; medical climatology. Address: Dept. General Science, Norwich University, Northfield, Vt. 05663.

BRYAN, PROF. W(ILLIAM) THOMAS, b. Springfield, Mo, Mar. 2, 02; m. 24; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Mo. State Col, 33; fel. & M.A, Yale, 36, Ph.D.(admin), 37. Asst. prof, Hawaii, 37-42; assoc. prof, Cincinnati, 42-44; mem. staff, Cincinnati Ord. Dist, U.S. War Dept, 44-46, gen. staff corps, off. chief of staff, 46-47; dir. res, Cincinnati Indust. Inst, 47-50; dist. price exec, Off. Price Stabilization, Cincinnati, 51-52; PROF. ECON. & BUS. ADMIN, XAVIER, 53- Vis. prof, Ohio, 40-41; mgt. consult, 50- AAAS; Acad. Polit. Sci. Wages and wage rates; personnel policies; organization and staffing of research departments in industry. Publ: Metal working industries; Machine tool industries; Foundries. Address: 2805 Digby Ave, Cincinnati, Ohio 45220.

BRYANT, PROF. CLIFTON DOW, b. Jackson, Miss, Dec. 25, 32; m. 57; c. 3. SOCIOLOGY, LABOR ECONOMICS. B.A, Mississippi, 56, M.A, 57; North Carolina, 57-58; Ph.D.(sociol, labor econ), La. State, 64. Instr. & res. assoc. sociol. & anthrop, Georgia, 60-63; asst. prof. & acting chmn. dept, Millsaps Col, 63-65, assoc. prof. & chmn. dept, 65-67; PROF. SOCIOL. & HEAD DEPT, WESTERN KENTUCKY, 67- Summers vis. instr, Pa. State, 58; res. participant, Oak Ridge Assoc. Univs, 67. Res. consult, Community Serv. Asn, Miss, 66-67. U.S.A, 53-55, 1st Lt. Sociol. Asn; Anthrop. Asn. Organizational structure and sub-cultural characteristics of work systems; occupational role analysis; experimental manpower development programs; impact of technological change on selected occupational groups. Publ: Co-auth, Technological change and the organization man: preliminary conceptualization of a research project, Sociol. Inquiry, winter 62; auth, The petroleum landman: a sociological analysis of an occupation, The Landman, 4-10/64; co-auth, The impact of technological change on the careers of managers and professionals in large-scale organizations: design of an exploratory study, In: Studies of behavior in organizations: a research symposium, Univ. Georgia, 66. Address: Dept. of Sociology, Western Kentucky University, Bowling Green, Ky. 42101.

BRYANT, DR. EDWARD C(LARK), b. Hat Creek, Wyo, June 28, 15; m. 41; c. 2. STATISTICS. B.S, Wyoming, 38, M.S, 40; Ph.D, Iowa State Col, 55. Jr. statistician & asst. economist, Interstate Commerce Cmn, 40-42; statistician, War Prod. Bd, 42-43; assoc. prof. statist, Wyoming, 47-55, prof. & head dept, 55-63; PRES, WESTAT RES, INC, 63- Vis. prof. math, Arizona State, 61-63. Consult, Westat Res. Analysts, 61-63. U.S.A, 43-46. AAAS; Soc. Qual. Control; Statist. Asn; Biomet. Soc; Inst. Mgt. Sci. Sampling; biometrics; operations research; information retrieval. Publ: Fundamentals of statistical analysis; Statistical analysis. Address: 7979 Old Georgetown Rd, Bethesda, Md. 20014.

BRYANT, DR. KEITH, JR, b. Birmingham, Ala, Jan. 6, 30; m. 54; c. 4. ECONOMICS. B.S, Samford, 60; M.B.A, Alabama, 61, Ph.D.(econ), 67. Price clerk, U.S. Steel Corp, 48-50, head price developer, 53-60; instr. Alabama, 61-63; asst. prof, N.Ga. Col, 63-65; Samford, 65-67; SR. ECONOMIST, SOUTH. RES. INST, 67- Adj. prof, Samford, 67- U.S.A, 50-53, Sgt. Econ. Asn. Regional economic forecasting; state and local fiscal problems. Publ: Alvin H. Hansen's influence on current economic policy, J. Ala. Acad. Sci, 4/67; The new economics, Samford Univ. Bull: Faculty Forum, 11/67. Address: 2649 Paden Place, Birmingham, Ala. 35226.

BRYANT, LYLE C(HRISTIAN), b. Dousman, Wis, May 31, 06; m. 50; c. 1. ECONOMICS. A.B, Beloit Col, 28; M.A, Chicago, 31. Teacher, high sch, Ill, 25-27; instr. econ, Buffalo, 32-33; statistician, emergency relief & works prog, Ill. & Ohio, 33-36; asst. prof. econ, Ga. Inst. Tech, 36-37; Bradley, 38-39; econ. & bus, Indiana, 39-41; economist, Fed. Housing Prog, 41-47; res. officer, univ. exten. serv, U.S. DEPT. COMMERCE, 47-52, CONSULT. COMMUNITY DEVELOP. & PLANNING, 53- Employ. officer, Tenn. Valley Authority, 34-35. Consult, Robert Schalkenbach Found, 65-; Univ. Virginia-Va. Polytech. North. Va. Pilot proj. Community Ed, 66- Adult Ed. Asn; Econ. Asn; Polit. Sci. Asn. Housing; urban economics; community organizations. Publ: Organization of occupancy as an approach to real estate management; Survey of university business and economic research; The Arlington story: real estate assessment reform as a factor in the self renewal of cities, Robert Schalkenbach Found, 66. Address: 4009 N. 23rd St, Arlington, Va. 22207.

BRYANT, DR. N(ORMAN) DALE, b. Aubrey, Tex, Dec. 10, 25; m. 48; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, N.Tex. State Col, 45, M.A, 51; Ph.D, Texas, 55. Assoc. prof. psychol. & ed, Hardin Col, 47-48; res. psychologist measurement & training, Human Resources Res. Center, 48-54; proj. dir. ed. res. & develop. div, Perceptual Develop. Labs, 54-57; assoc. prof, Houston, 57-60; assoc. prof. pediat. & psychiat, Albany Med. Col, Union (N.Y), 60-67; PROF. ed. psychol, State Univ. N.Y. Albany, 62-67; PSYCHOL. & ED, TEACHERS COL, COLUMBIA, 67- Exec. dir, Albany Study Center Learning Disabilities, Albany Med. Col. & State Univ. N.Y. Albany, 60-67. Consult. psychologist, Albany Med. Center Hosp, 61-67. Psychol. Asn; Coun. Except. Children. Learning disabilities; neuropsychological factors and dysfunctioning; behavioral therapy; reading training; measurement theory; clinical child psychology. Publ: Reading disability: part of a syndrome of neurological dysfunctioning, Int. Reading Asn. Conf. Proc, 62; Some principles of remedial instruction for dyslexia, Reading Teacher, 4/65; Clinic inadequacies with learning disorders, In: Learning disorders, Vol. 2, Spec. Child. Pub, 66. Address: Dept. of Psychology & Education, Teachers College, Columbia University, New York, N.Y. 10027.

BRYANT, DR. RICHARD M(ILES), b. Princeton, Ill, June 6, 32; m. 55; c. 2. CLINICAL PSYCHOLOGY. B.A, Washington (St. Louis), 54; Iowa, 54-55; Ph.D.(psychol), Texas, 58. Trainee clin. psychol, Vet. Admin, 54-58; chief clin. psychol. sect, Ment. Hyg. Consult. Serv, Ft. Leonard Wood, Mo, 58-60; supvr. psychol. servs, juvenile res. treatment prog, State Hosp, Fulton, Mo, 60-63; sr. clin. psychologist, CHILDREN'S MED. CENTER, 63-64, DIR. PSYCHOL. SERVS, 64- Asst. prof. psychol, Lincoln, 60-63; spec. lectr, William Woods Col, 60-63. Private practice, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol, 64. Med.Serv.C, 58-60, Res, 54-62, 1st Lt. AAAS; Psychol.

Asn. Individual psychodiagnosis and psychotherapy; group psychotherapy; experimental psychopathology. Address: Children's Medical Center, 4818 S. Lewis, Box 7352, Tulsa, Okla. 74105.

BRYANT, PROF. RONALD W, b. Manchester, Eng, Aug. 8, 15; m. 53; c. 3. CITY PLANNING, GEOGRAPHY. M.A, Aberdeen, 37; M.Sc, London Sch. Econ, 39; dipl, Manchester, 55. Asst. res. officer, Ministry Town & Country Planning, Eng, 46-49; Lancashire County Planning Dept, Eng, 49-56; develop. plan officer, Country-City Architect's Dept, Eng, 56-61; Halifax, N.S, 61-62; asst. prof. city planning, urban inst, Montreal, 62-66; ASSOC. PROF. GEOG, SIR GEORGE WILLIAMS, 66- Consult, Greater Montreal Transportation, Que. Econ. Adv. Coun, 63; mem, Lemay Cmn, Que. Prov. Govt, Montreal, 66-67. Intel.C, Brit. Army, 39-46, Maj. Town Planning Inst. Can; Soc. Planning Off. Private property in land, and public control of its use. Publ: Co-auth, Taming the megalopolis, Doubleday, 67; auth, Land speculation, 65 & Finland—organization of the environment, 66, Plan (Montreal). Address: Dept. of Geography, Sir George Williams University, 1435 Drummond St, Montreal 25, Que, Can.

BRYANT, DR. WILFRID KEITH, b. Guelph, Ont, Sept. 22, 34; m. 62; c. 1. AGRICULTURAL ECONOMICS, ECONOMICS. B.S.A, Ont. Agr. Col, 57; M.S, Mich. State, 60, Ph.D.(agr. econ), 63; Ford Found. fel, Chicago, 61-62. Personnel asst, Can. Industs. Ltd, 57-58; asst. AGR. ECON, Mich. State, 58-61, asst. instr, 62-63; asst. prof, MINNESOTA, 63-66, ASSOC. PROF, 66- Staff mem, Nat. Adv. Cmn. Rural Poverty, 66-67. R.C.N, 53-57, Sub.Lt. Agr. Econ. Asn; Econ. Asn; Economet. Soc. Effects of business cycles on agriculture; domestic economic development; economics of poverty. Publ: Co-auth, Rural America, Wiley, (in press); auth, The changing effects of nonfarm business expansions on farm costs, 62 & Causes of inter-county variations in farmer's earnings, 66, J. Farm Econ. Address: 3973 Dellview Ave, St. Paul, Minn. 55112.

BRYANT, PROF. WILLIAM DOUGLAS, Econ, see 10th ed, Soc. & Behav. Vols.

BRYCE, MURRAY DAVIDSON, b. Keeler, Sask, Sept. 25, 17; m. 45; c. 2. ECONOMICS, PUBLIC ADMINISTRATION. B.A, British Columbia, 49; M.A, American Univ, 56. Chief acct, Govt. Indust. Corps, Sask, 45-46; mem. field staff, Pub. Admin. Serv, 49-51; opers. officer indust. financing, Int. Bank Reconstruct. & Develop, D.C, 51-57; econ. adv. indust. develop, Govt. Union of Burma, 57-59; mission chief, indust. develop. mission to Cuba, Arthur D. Little, Inc, 59, indust. & regional develop. surv, Peru, 60, indust. develop. surv, Argentina, 61, tech. asst. prog, Nigeria, 61-64; PRES, PROJS. INT, INC, 64- Guest lectr, Inst. Int. Coop. Admin. Develop. Prog, Center Int. Studies, Hopkins, 59-61; Inst. Indust. Develop, Mexico City, 61. Consult, Int. Coop. Admin, Bolivia, 60. Mem, for. commerce cmt, U.S. Chamber Commerce, 61. R.C.A.F, Flying Officer. Econ. Asn; Soc. Int. Develop. Economic and regional development; industrial development of underdeveloped countries; development finance; planning; economic feasibility of projects. Publ: Industrial development, 60 & Policies and methods for industrial development, 64, McGraw; How to create a practical industrial development program, UN Conf, Geneva, 63. Address: 1123 Crestline Rd, West Vancouver, B.C, Can.

BRYDEN, PROF. M(ARK) PHILIP, b. Boston, Mass, Nov. 14, 34. PSYCHOLOGY. S.B, Mass. Inst. Tech, 56; M.Sc, McGill, 58, Ph.D, 61. Res. assoc. PSYCHOL, McGill, 60-63; asst. prof, WATERLOO, 63-64, assoc. prof, 64-67, PROF, 67- AAAS; Psychonomic Soc; Am. Psychol. Asn; Can. Psychol. Asn. Learning and perception; sensory processes; brain function. Publ: Role of post-exposural eye movements in tachistoscopic perception, Can. J. Psychol; Handedness, cerebral dominance and tachistoscopic recognition, Neuropsychologia, 65; A model for the sequential organization of behavior, Can. J. Psychol, 67. Address: Dept. of Psychology, University of Waterloo, Waterloo, Ont, Can.

BRYSKI, DR. A(NTHONY) J(OSEPH), b. Philadelphia, Pa, Apr. 8, 17; m. 46; c. 3. ECONOMICS. B.S, Temple, 40; M.A, N.Y. Univ, 48, Ph.D, 57. Assoc. prof. econ, Lehigh, 62-66; ASSOC. PROF. INDUST. RELS, XAVIER, 66- Consult, invest. cmt. unemploy. statist, Pa. House of Rep, 66-67. U.S.A, 41-46. Econ. Asn; Indust. Rel. Res. Asn; Acad. Polit. & Soc. Sci; Econ. Hist. Asn. Publ: State statistics in the space age, Bus. & Govt. Rev, Missouri, 1-2/64; Work injury statistics in the space age, Workmen's Compensation Prob. Bul, 64; ed, Trends in economics, Proc Sixth Biennial Pa. Conf. Economists, Duquesne, 66. Address: 1080 Lanny Lane, Cincinnati, Ohio 45231.

BRYSON, PROF. JOHN A(LEXANDER), b. New York, N.Y, Sept. 30, 07; m; c. 2. ECONOMICS. B.S, N.Y. Univ, 30, A.M, 31, Ph.D, 42. Asst. econ, N.Y. UNIV, 30-36, instr, 36-45, asst. prof. sociol, 45-48, assoc. prof, 48-53, PROF, 53-63, ECON, 63- Consult. & mem. res. staff, nat. resources cmt, U.S. Dept. Interior; dir. res, Citizens Budget Cmn, New York, 42-43, act. exec. dir, 43-45. Consult, State Comptrollers Cmt. Local Non Property Taxes, N.Y, 49-; Temporary Cmn. City Finances, New York, 64-66; local finance, New Orleans, 66-; fiscal consult, Dept. Finance, New York, 67- Econ. Asn; Sociol. Asn; Soc. Pub. Admin. State and local taxes. Publ: Co-auth, Economics & business administration, Am. Inst. Banking; Finances of New Orleans, City of New Orleans, 66. Address: 46 Nassau Rd, Great Neck, N.Y. 11021.

BRYSON, PROF. MARION R(ITCHIE), b. Centralia, Mo, Aug. 26, 27; m. 47; c. 4. MATHEMATICAL STATISTICS. B.S, Missouri, 49, M.A, 50; Ph.D, Iowa State, 58. Instr. math, Idaho, 52-53; Drake, 53-55; res. assoc. statist, Iowa State, 55-58; DIR. SPEC. RES. STATIST, DUKE, 58-, ASSOC. PROF. MATH. & COMMUNITY HEALTH SCI, 67-, asst. prof. statist, 62-67. Statist. ed, J. Parapsychol, 66-; lectr, dept. path, VA Hosp, 67- U.S.A, 46-47. Statist. Asn; Inst. Math. Statist; Opers. Res. Soc. Military research, development and logistics; teaching statistical sampling and probability; medical research. Publ: Physical inventory using sampling methods; Errors of misclassifications in binomial populations, J. Am. Statist. Asn, 3/65; co-auth, Effect of US intensity on salivary conditioning, J.Exp. Psychol, 67. Address: Dept. of Mathematics, Duke University, Box EM, Duke Station, Durham, N.C. 27706.

BRYSON, PROF. W(INFRED) O(CTAVUS), JR, b. Chattanooga, Tenn, Apr. 20, 15; m. 40. ECONOMICS. A.B, Morehouse Col, 36; A.M, Atlanta, 37; Ph.D, Pennsylvania, 47. Instr. ECON, MORGAN STATE COL, 37-45, assoc. prof, 45-47, PROF. & HEAD DEPT, 47- Bus. mgr, Frederick Douglass Mem. Hosp, Phila, Pa, 45-47; pres, Advance Fed. Savings & Loan Asn. of Baltimore, Md, 59- Econ. Asn; Mkt. Asn. Life insurance; Negro owned businesses and life insurance companies. Publ: Recent developments affecting Negro legal reserve life insurance companies, Rev. Ins. Studies; Negro insurance market in Baltimore, 1957, J. Ins. Address: 4514 St. Georges Ave, Baltimore, Md. 21212.

BRZESKI, DR. ANDRZEJ, b. Warsaw, Poland, Aug. 16, 25; U.S. citizen; m. 59; c. 2. ECONOMICS. Mag. N.E, Lodz, 50; Cent. Sch. Planning & Statist, Warsaw, 50-51; M.A, California, Berkeley, 61, Ph.D.(econ), 64. Acting instr. statist. & econ, California, Berkeley, 61; asst. prof. ECON, Wayne State, 62-63; CALIFORNIA, DAVIS, 63-67, ASSOC. PROF, 67- Econ. Asn; Asn. Adv. Slavic Studies; Asn. Comp. Econ; Royal Econ. Soc. Comparative economics; economic planning; soviet-type economics. Address: Dept. of Economics, University of California, Davis, Calif. 95616.

BRZEZINSKI, PROF. ZBIGNIEW, b. Warsaw, Poland, Mar. 28, 28; U.S. citizen; m. 55. GOVERNMENT. B.A, McGill, 49, M.A, 50; Ph.D.(polit. sci), Harvard, 53; L.H.D, Alliance Col, 66. Instr. govt. & res. fel, Russian Res. Center, Harvard, 53-56, asst. prof. govt, res. assoc, Russian Res. Center & assoc, Center Int. Affairs, 56-60; assoc. prof. pub. law & govt, COLUMBIA, 60-62, PROF. PUB. LAW & GOVT. & MEM. FACULTY RUSSIAN INST, 62-, DIR. RES. INST. COMMUNIST AFFAIRS, 61- Mem. Policy Planning Coun, Dept. State, 66-68. Guest lectr, U.S. & for. cols. & univs. Can. Soc. Sci. Res. Coun. grant, Yugoslavia & W.Germany, 53; Inter-Univ. Cmt. travel grant, U.S.S.R, 56; Soc. Sci. Res. Coun. travel grant, Poland, 57; Guggenheim fel, 60; participant, Int. Sovietological Conf, Japan, 60; dep. chmn. Am. del, Am-Polish Round-Table, Poland, participant, Int. Conf. World Polit, Greece & del, Am-German Conf, 62; del, Am. Japanese Conf, 64, Coun. For. Rels. grant, West. Europe, Rumania, Hungary & Czech, del, Am-German Conf, participant, Atlantic Alliance Conf. Wehrkunde, Munich, 64; lectr, Royal Inst. Int. Affairs, Eng. & Inst. Int. Affairs, Prague, prin. speaker, Europa-Haus Symp, Berlin, 65; White House panel fact-finding trip, Germany, Portugal & Morocco, 66. Consult, Dept. State, Rand Corp. Mem. joint cmt. on contemporary China, Soc. Sci. Res. Coun, 61-62. Trustee, Freedom House, New York. Coun. For. Rels; Asn. Adv. Slavic Studies. Publ: Co-auth, Political power: USA/USSR, Viking, 64, German ed, 66; auth, Alternative to partition: for a broader conception of America's role in Europe, McGraw, 65, German ed, 66; The Soviet Bloc—unity and conflict, Harvard, 67. Address: 622 W. 113th St, New York, N.Y. 10025.

BUCCI, DR. PHILIP VINCENT, b. Roccaraso, Italy, June 1, 28; U.S. citizen. POLITICAL SCIENCE. A.B, St. Vincent Col, 52; A.M, Pennsylvania, 54; Ph.D.(polit. sci), St. John's (N.Y), 65. Teaching fel. POLIT. SCI, ST. JOHN'S (N.Y), 58-60, instr, 60-62, asst. prof, 62-68, ASSOC. PROF, 68- Pres. Adv. Coun. Prfnl. Res. Humanities summer res. grant, 67. Acad. Polit. Sci; Polit. Sci. Asn. Comparative institutions and politics; political theory. Publ: Chiesa E Stato: church-state relationships in Italy within the contemporary constitutional framework, Martinus Nijhoff's, winter 68. Address: Dept. of Political Science, St. John's University, Grand Central & Utopia Pkwy, Jamaica, N.Y. 11432.

BUCHANAN, DR. DONALD A(LAN), b. Cleveland, Ohio, Jan. 22, 21. EXPERIMENTAL PSYCHOLOGY. B.S, Washington (Seattle), 47, M.S, 51; Ph.D. (psychol), Rochester, 55. Asst. psychol, Washington (Seattle), 47-51; Rochester, 51-53; res. assoc. HumRRO, George Washington, 53-55; asst. soc. scientist, Rand Corp, 55-57; human factors scientist, Syst. Develop. Corp, 57-61; eng. psychologist-specialist, Lockheed Missiles & Space Co, 61-63; asst. prof. PSYCHOL, Redlands, 63-64; assoc. prof, Oregon State, 64-68; LECTR, SOUTHERN CALIFORNIA, 68- U.S.A, 42-46, S/Sgt. AAAS; Psychol. Asn; Human Factors Soc. Experimental and engineering psychology; psychological history and theory. Address: Institute of Aerospace Safety & Management, University of Southern California, Los Angeles, Calif. 90007.

BUCHANAN, DR. GARTH NORMAN, b. Bellingham, Wash, July 12, 24; m. 50; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, West. Wash. State Col, 50; M.A, Colorado, 53, fel, 54-55, Ph.D, 56. Soc. scientist, Rand Corp, 55-58; human factors scientist, Syst. Develop. Corp, N.J, 58-64; RES. STAFF MEM, INST. DEFENSE ANAL, 64- U.S.A, 43-46. AAAS; Psychol. Asn. Application of high speed digital computers to large scale data processing systems; analysis and evaluation of complex systems. Publ: Co-auth, Acquisition of secondary reward by cues associated with shock-reduction, J. Exp. Psychol; Effects of various punishment-escape events upon subsequent choice behavior of rats, J. Comp. & Physiol. Psychol. Address: 6362 Dockser Terr, Falls Church, Va. 22041.

BUCHANAN, PROF. JAMES M(cGILL), b. Murfreesboro, Tenn, Oct. 2, 19; m. 45. ECONOMICS. B.S, Middle Tenn. State Col, 40; M.A, Tennessee, 41; fel, Chicago, 46-48, Ph.D, 48. Assoc. prof. ECON, Tennessee, 48-50, prof, 50-51; Fla. State, 51-56; prof. & chmn. dept, Virginia, 56-61, Paul G. McIntire prof, 62-68; PROF, CALIFORNIA, LOS ANGELES, 68- Fulbright res. scholar, Italy, 55-56; Fulbright vis. prof, Cambridge, 61-62; vis. prof, London Sch. Econ, 67. Consult, South. Regional Ed. Bd, 53-55; Rand Corp, 54-; Cmt. Econ. Develop, 55- U.S.N.R, 41-46. Am. Econ. Asn; Royal Econ. Soc. Economics of collective choice. Publ: Co-auth, The calculus of consent, Univ. Michigan, 62; auth, Public finance in democratic process, Univ. North Carolina, 67; Demand and supply of public goods, 68. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

BUCHANAN, DR. MARK TWAIN, b. Van Buren, Mo, June 6, 15; m. 37; c. 3. AGRICULTURAL ECONOMICS. B.S, Missouri, 37; Ph.D.(agr. econ), Cornell, 40. Asst, Cornell, 37-40; asst. agr. economist, exp. sta, Washington State, 40-42, exten. mkt. specialist, 42, res. & teacher agr. econ, 42-45, chmn. dept. & div, 45-46, prof. agr, v.dir. inst. agr. scis. & dir. agr. exp. stas, 46-67, chief adv, field party to Univ. Punjab, Pakistan, 56-58, campus coordinator, Pakistan Proj, 58-67; DIR-AT-LARGE, WEST. ASN. AGR. EXP. STA. DIRS, UNIV. CALIFORNIA, 67- AAAS; Econ. Asn. Price flexi-

bility and international price movements. Address: 317 University Hall, 2200 University Ave, Berkeley, Calif. 94720.

BUCHANAN, DR. PAUL C(RAMER), b. Lindside, W.Va, Feb. 10, 18; m. 41; c. 2. PSYCHOLOGY. B.A, Dakota Wesleyan, 40; M.A, Nebraska, 41; fel, Illinois, 41-42; Ph.D.(psychol), Southern California, 50. Psychologist, adv. & guid. sect, Vet. Admin, Los Angeles, Calif, 45-51; training dir. & staff psychologist, U.S. Naval Ord. Test. Sta, 51-56; indust. psychologist, Repub. Aviation Co, N.Y, 56-59; res. assoc. employee rels, Standard Oil Co.(N.J), 59-64; ASSOC. PROF. ED, FERKAUF GRAD. SCH, YESHIVA, 64- Mem. core cmt. ed, Nat. Training Labs-Inst. Appl. Behav. Sci, 64- U.S.A, 42-45. AAAS; Psychol. Asn. Dynamics of work groups; organization development. Publ: Co-auth, Techniques that produce teamwork; auth, Evaluating the effectiveness of laboratory training in industry, 64 & Crucial issues in organizational development, 67, Nat. Training Labs. Address: 55 Fifth Ave, New York, N.Y. 10003.

BUCHANAN, PROF. W. C, b. Waverly, Tenn, Sept. 18, 17; m. 43; c. 2. GEOGRAPHY. B.S, Austin Peay State Col, 47; M.A, George Peabody Col, 50. Instr. geog, Northeast La. State Col, 48-53, asst. prof, 53-58, ASSOC. PROF, 58-67; GEOG. & SOCIOL, COLUMBIA COL.(S.C), 67- Adj.Gen.C, U.S.A, 42-46, Res, 46-, Lt. Col. Asn. Am. Geog; Nat. Coun. Geog. Ed. Cultural anthropology and geography; geography of Anglo America. Publ: Louisiana geography, Harlow, 57 & 59. Address: Dept. of Human Relations, Columbia College, Columbia, S.C. 29203.

BUCHANAN, PROF. WILLIAM, b. Richmond, Va, Dec. 25, 18; m. 46; c. 3. POLITICAL SCIENCE. A.B. & M.A, Washington & Lee, 41; M.A, Princeton, 52, Ph.D.(politics), 55. Asst. prof. govt, Miss. State Col, 52-56; POLIT. SCI, Southern California, 56-60, assoc. prof, 60-62; prof, Tennessee, 62-66; PROF. & CHMN. DEPT, WASHINGTON & LEE, 66- U.S.N.R, 42-46, Lt. Comdr. Polit. Sci. Asn. Public opinion; political behavior; legislative behavior. Publ: Co-auth, How nations see each other & The legislative system; auth, Legislative partisanship, the deviant case of California, Univ. Calif, 63. Address: Dept. of Political Science, Washington & Lee University, Lexington, Va. 24450.

BUCHER, DR. BRADLEY D, b. Astoria, Ill, July 16, 32. PSYCHOLOGY. A.B, Knox Col. (Ill), 53; Ph.D.(math), Princeton, 57; Ph.D.(psychol), Pennsylvania, 65. Res. asst. statist. res, anal. res. group, Princeton, 55-56; staff analyst, weapon systs. eval. div, Inst. Defense Anal, 57-60; U.S. Pub. Health Serv. fel, 60-63; instr. PSYCHOL, Pennsylvania, 63-64; ASST. PROF, CALIFORNIA, LOS ANGELES, 64- Consult, Vet. Admin, 66- Psychol. Asn. Mathematical statistics, especially statistical design; clinical psychology, especially behavior modification. Publ: Co-auth, Use of aversive stimulation in behavior modification, In: Miami symposium on the prediction of behavior: aversive stimulation, Univ. Miami, 67; A pocket portable shock device with application to nailbiting, Behav. Res. & Ther, 68. Address: Dept. of Psychology, Franz Hall, University of California, Los Angeles, Calif. 90024.

BUCHER, DR. M. RUE, b. Connellsville, Pa, Aug. 27, 28. SOCIOLOGY. Ph.B, Chicago, 48; M.A, 54, Ph.D.(sociol), 61. Res. sociologist, Psychiat. Inst, Michael Reese Hosp, 57-63; asst. prof. SOCIOL, ILLINOIS, CHICAGO, 63-66, ASSOC. PROF, 66- Nat. Inst. Ment. Health career develop. award, 65-70. Sociol. Asn; Soc. Study Social Probs; Soc. Appl. Anthrop. Processes of professional socialization; characteristics of professional organizations; comparative studies of the dynamics of change in professions and scientific disciplines. Publ: Co-auth, Psychiatric ideologies and institutions, Free Press Glencoe, 64 & Professions in process, Am. J. Sociol, 61; auth, Psychiatric residency and professional socialization, J. Health & Human Behav, 65. Address: Dept. of Psychiatry, University of Illinois at the Medical Center, Box 6998, Chicago, Ill. 60680.

BUCHHEIMER, PROF. ARNOLD, b. Mannheim, Germany, June 22, 22; nat; m. 48; c. 2. PSYCHOLOGY. B.S, Ohio State, 46, M.A, 49, fel, 52-53, Ph.D, 53. Asst. counseling psychol, Ohio State, 51-52; child psychologist, Bd. Ed, Akron, Ohio, 53-55; PROF. ED, GUID. & COUNSELING, CITY UNIV. NEW YORK, 55- Teacher, Bd. Ed, Lorain, Ohio, 49-52; summers, lectr, Puerto Rico, 59; prof, Harvard, 61; prin. investr, Hunter Col, 61-65. Consult, Summit County Child Welfare Bd, Ohio, 54-55. Psychol. Asn; Personnel & Guid. Asn. Self development of children and its relationship to vocational and educational achievement; group interaction; empathy in counseling and counselors; kinescopes as counselor training tools. Publ: Counseling relationship, Sci. Res. Assoc, Inc, 61; From group to Gemeinschaft, In: Essays in individual psychology; The development of ideas about empathy, J. Clin. Psychol, 63. Address: 170-09 84th Rd, Jamaica, N.Y. 11432.

BUCHLER, DR. IRA RICHARD, b. New York, N.Y, Mar. 6, 38; m. 66. ANTHROPOLOGY. B.A, N.Y. Univ, 61; Ph.D.(anthrop), Pittsburgh, 64. Instr. ANTHROP, Boston, 64-65; asst. prof, TEXAS, 65-67, ASSOC. PROF, 67- Off. Naval Res. grant, 66; summer res. fel, Inst. Latin Am. Studies, Univ. Texas, 65. U.S.A, 58-59. Fel. Anthrop. Asn. Mathematical analysis of cultural systems; social structure; structural analysis of myth; ethnoscience. Publ: Co-auth, Kinship and social organization, Macmillan, 68; Game theory in the behavioral sciences, Univ. Pittsburgh, 68. Address: Dept. of Anthropology, University of Texas, Austin, Tex. 78712.

BUCHWALD, PROF. ALEXANDER M(ILLER), b. Brooklyn, N.Y, Dec. 19, 25; m. 50; c. 2. PSYCHOLOGY. B.S, Columbia, 48; Ph.D.(psychol), Minnesota, 52. Asst. prof. PSYCHOL, INDIANA, 52-59, assoc. prof, 59-64, PROF, 64- Nat. Inst. Ment. Health spec. fel, 62-63. U.S.N.R, 44-46. Psychol. Asn; Psychonomic Soc. Reward and punishment in human learning; psychopathology; methodological aspects of clinical psychology. Publ: Co-auth, Some comments on the foundations of behavior therapy in assessment and status of the behavior therapies and associated development, McGraw, in press; auth, Values and the use of tests, J. Consult. Psychol, 65; Effects of immediate vs. delayed outcomes in associative learning, J. Verbal Learning & Verbal Behav, 67. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

BUCK, A(RTHUR) E(UGENE), Pub. Admin, see 10th ed, Soc. & Behav. Vols, deceased.

BUCK, PROF. DONALD TIRRELL, b. Manchester, N.H, Nov. 17, 31. ECONOMICS. B.S, New Hampshire, 55, M.A, 61; Pennsylvania, 61-65. Asst. econ, New Hampshire, 59-61; instr. finance, Pennsylvania, 61-65; ASST. PROF. ECON, SOUTH. CONN. STATE COL, 65- Consult, res. sect, State Dept. Econ. Planning, N.H, 60-62; Urban Renewal Authority, Laconia, N.H, 62-63. U.S.A, 55-57. Econ. Asn. Economics of finance; monetary economics; international economics; economics of less developed nations. Address: Dept. of Economics, Southern Connecticut State College, New Haven, Conn. 06515.

BUCK, DR. J(OHN) LOSSING, b. Pleasant Valley, N.Y, Nov. 27, 90; m. 41; c. 2. AGRICULTURAL ECONOMICS. B.S, Cornell, 14, M.S, 25, Ph.D, 33. Prof. agr. econ, Nanking, China, 20-44; consult. & mem, agr. mission, U.S. Dept. Agr, 45-46; chief land & water use br, Food & Agr. Admin, UN, 47-54; dir. agr. econ, Coun. Econ. & Cultural Affairs, 54-57; RES. & WRITING, 57- Prices; farm management; credit marketing. Publ: Chinese farm economy; Land utilization in China; co-auth, Food and agriculture in Communist China, Praeger, 66. Address: Freedom Plains Rd, Pleasant Valley, N.Y. 12569.

BUCK, DR. JOHN THOMAS, b. Patesville, Ky, Jan. 15, 18; m. 42; c. 2. AGRICULTURAL ECONOMICS. B.S, Western Kentucky, 38, M.S, Kentucky, 47; fel, Minnesota, 50, Ph.D.(agr. econ), 51. Asst. mkt, Kentucky, 46-47; Minnesota, 47-49; assoc. agr. economist, VA. POLYTECH, 50-57, AGR. ECONOMIST, 57- U.S.A.A.F, 42-45, Sgt. Agr. Econ. Asn. Poultry marketing. Publ: An evaluation of broiler financing methods in Virginia, Egg delivery—practices and costs, 63 & Virginia's broiler industry, 66, Bull, Va. Agr. Exp. Sta. Address: 702 Kentwood Dr, Blacksburg, Va. 24060.

BUCK, PROF. MARION A(SHBY), b. Watertown, N.Y, Jan. 30, 09. ECONOMICS, GOVERNMENT. A.B, Radcliffe Col, 30, Ph.D.(polit. econ. & govt), 53; fel. & M.A, Syracuse, 31. Instr. econ, St. Lawrence, 46-49, asst. prof, 50-52; bus. admin, Syracuse, 56-61, assoc. prof, 61-65, asst. dir. state banking study, 56-59, acting dir. bus. res. center, 59-65; sr. economist, Fed. Reserve Bank Cleveland, 65-67; PROF. ECON, CALIF. STATE COL. DOMINGUEZ HILLS, 67- Dir. studies, joint legis. cmt. commerce & econ. develop, State Legis, N.Y, 53-64. Econ. Asn; Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Hist. Tech; Econ. Hist. Asn; N.Y. Acad. Sci. Government and business; business history; intergovernmental fiscal relations; economic development; monetary and fiscal policy; social implications of economic decisions. Publ: Co-auth, Economic status of upstate New York at mid-century; co-auth, What price progress, Rand McNally, 63; auth, The employment act of 1946-twenty years later, Fed. Reserve Bank Cleveland, 66. Address: Dept. of Economics, California State College at Dominguez Hills, Dominguez Hills, Calif. 90247.

BUCK, PROF. PHILIP W(ALLENSTEIN), b. Rapid City, S.Dak, May 29, 00. COMPARATIVE GOVERNMENT. A.B, Idaho, 23; B.A, Oxon, 26; Ph.D, California, 33. From instr. to assoc. prof. POLIT. SCI, STANFORD, 34-41, prof, 41-65, chmn. dept, 47-65, EMER. PROF, 65- Prof, Pa. State, 65-66; Calif. State Col, Dominguez Hills, 66-67. Ford Found. res. grant Brit. polit. careers, 55-63. Polit. Sci. Asn. Political doctrines of English mercantilists; English government and politics. Publ: The politics of mercantilism; co-auth, Control of foreign relations in modern nations; Amateurs and professionals in British politics, 1918-1959, Univ. Chicago Press, 63. Address: 410 Via Mesa Grande, Redondo Beach, Calif. 90277.

BUCK, DR. VERNON ELLIS, b. Kansas City, Mo, Apr. 7, 34; m. 57; c. 2. INDUSTRIAL SOCIOLOGY. B.A, Yale, 56; Gen. Elec. fel. & M.S, Cornell, 60, N.Y. State fel. & Ph.D.(indust. rels), 63. Lectr. INDUST. ADMIN, YALE, 61-63, ASST. PROF, 63- Russell Sage Found. res. grant, 65-69. Psychol. Asn; Sociol. Asn. Uses of ability testing in business and industry; mental health of employees. Publ: Too much control—too little quality, Bus. Horizons, fall 65; Model for viewing an organization as a system of constraints, In: Approaches to organizational design, Univ. Pittsburgh, 66. Address: Dept. of Administrative Sciences, Yale University, Kirtland Hall, 2 Hillhouse Ave, New Haven, Conn. 06520.

BUCKALEW, PROF. ROBERT J, b. Eustis, Fla, Mar. 24, 24; m. 59; c. 2. PSYCHOLOGY. B.S, West Chester State Col, 48; M.Ed, Temple, 49; Ed.D. (counseling & guid), 62. Group living teacher, N.J. Reformatory Boys, 48-49; teacher & guid. counsr, pub. schs, Del, 49-52, elem. counsr. & spec. ed. teacher 52-53, guid. counsr. & teacher, 53-55; psychologist, Del. Colony for Feebleminded, 53; spec. ed. teacher, pub. schs, Pa, 55-57; asst. county supvr. spec. ed. & county psychologist, Carbon County Sch. Bd, Pa, 57-62; PROF. PSYCHOL. & DIR. CURRICULUM & RES, KUTZTOWN STATE COL, 62- Consult, 62- U.S.A.F, 42-45, Res, 45-, Maj. Ed. Res. Asn; Psychol. Asn. Counseling and guidance; curriculum development; special education of the mentally retarded; educational research. Publ: Co-auth, Program of educational requirements for experimental-learning research centers, Ed. Res. Serv, Inc, 62 & This is educational research, Pa. Sch. J, 4/66. Address: 113 N. Richmond St, Fleetwood, Pa. 19522.

BUCKBERG, DR. ALBERT, b. Brooklyn, N.Y, Aug. 25, 22. ECONOMICS. B.A, George Washington 47; California, 47-50; M.A, Michigan, 54, Ph.D, 60. Indust. rel. analyst, Wage Stabilization Bd, Wash, D.C, 51-52; instr. econ, Michigan 54-57; Iowa State 57-60, asst. prof, 60-62; fiscal economist, U.S. Bur. Budget, 62-66; ECONOMIST, JOINT CMT. INTERNAL REVENUE TAXATION, U.S. CONG, 66- Mem. rev. & eval. team, tax admin. assistance prog, Agency Int. Develop, Peru, Panama, Chile & Colombia, summer, 66. U.S.A, 42-46. Econ. Asn; Economet. Soc. Public finance; economic theory; economic development. Address: Joint Committee on Internal Revenue Taxation, 1011 Longworth House Office Bldg, Washington, D.C. 20515.

BUCKHOLTS, PROF. PAUL O(MAR), b. Oklahoma City, Okla, Oct. 10, 15; m. 41; c. 4. POLITICAL GEOGRAPHY. B.A, Oklahoma, 38, M.A, 40; Ph.D, Harvard, 57. Asst. prof. geog, U.S. Mil. Acad, 48-51; mem. faculty int. rels, Air War Col, U.S. Air Force, 55-56; assoc. prof. GEOG, EASTERN

MICHIGAN, 61-63, PROF, 63- U.S.A.F, 40-61, Col. Asn. Am. Geog. Strategic, political, historical and military geography; modern European history. Publ: Political and military geography; Political geography, Ronald, 66. Address: Dept. of Geography & Geology, Eastern Michigan University, Ypsilanti, Mich. 48197.

BUCKHOUT, DR. ROBERT, b. Brooklyn, N.Y, Nov. 1, 35; c. 2. EXPERIMENTAL & SOCIAL PSYCHOLOGY. B.S, Queens Col.(N.Y), 57; M.S, N.C. State Col, 59; Ph.D.(psychol), Ohio State, 63. ASST. PROF. PSYCHOL, WASHINGTON (ST. LOUIS), 63- Nat. Sci. Found. grant, 66-69. U.S.A.F.R, 58-62, Capt. Psychol. Asn; Human Factors Soc; Psychonomic Soc. Management of emotional states in social contexts; attitude change; physiological correlates of attention; social impact of United States aid to underdeveloped nations. Publ: The politics of escalation in Vietnam, Beacon, 66; co-ed, Effects of food deprivation and expectancy on heartrate, Psychonomic Sci, 66; auth, Changes in heart rate accompanying attitude change, J. Personality & Soc. Psychol, 66. Address: Dept. of Psychology, Washington University, St. Louis, Mo. 63130.

BUCKINGHAM, DR. GUY EMERSON, b. Fredericktown, Pa, Mar. 18, 99; m. 20; c. 2. PSYCHOLOGY. B.A, Washington & Jefferson Col, 21, M.A, 26; Ph.D.(ed), Northwestern, 30. Asst. prof. ed, ALLEGHENY COL, 29-36, assoc. prof, 36-41, PROF. ed. & psychol, 41-45, PSYCHOL, 45- Assoc, adv. sch. ed, Columbia, 38. Consult, Armco Steel Corp, 38-56; Am. Viscose Corp, 42- Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. U.S.A, 18. Psychol. Asn. Learning process; measuring personality and intelligence; relationship of psychomotor speed and steadiness to job output. Publ: Diagnostic and remedial teaching in first year algebra and co-auth, A technique for testing unified concepts in science, J. Ed. Res; A new type of thesis for the dissemination of research products, Ed. Record. Address: 393 Byllesby Ave, Meadville, Pa. 16335.

BUCKINGHAM, PROF. WALTER S(AMUEL), JR, Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

BUCKLEW, PROF. JOHN, JR, b. Goshen, Ind, May 26, 14. PSYCHOLOGY. B.A, Indiana, 37, M.A, 39, Ph.D.(psychol), 42. Instr. PSYCHOL, Indiana, 41-42, 46; Oberlin Col, 46-47; asst. prof, LAWRENCE, 47-51, assoc. prof, 51-61, PROF, 61- Ford Found. faculty fel, France, 53-54; res. grant, Nat. Inst. Ment. Health, 63-66. U.S.A, 43-45. Fel. Psychol. Asn; Anthrop. Asn. Experimental and theoretical psychology; psychopathology. Publ: Paradigms for Psychopathology; Prediction of psychiatric symptoms from case history information, Psychol. Record, 1/67; The use of symptoms to assess case history information, Multivariate Behavior Res, 1/68. Address: Dept. of Psychology, Lawrence University, Appleton, Wis. 54911.

BUCKLEW, PROF. REBA M(URIEL), b. Wardville, Okla, Sept. 15, 14. SOCIOLOGY. B.A, Texas Woman's Univ, 43, M.A, 46; M.S.W, Washington (St. Louis), 50; Minnesota, 56; Ph.D.(sociol), La. State, 59. Dir. in residence, TEXAS WOMAN'S UNIV, 42-47, assoc. prof. SOCIOL, 44-63, PROF, 63- Sociol. Asn. Social work; sociology of professions. Publ: Ten year experiment in field experience in undergraduate social work: 1946-1955, Proc. Southwest. Sociol. Soc; Occupational aspects of social work, Soc. Forces; co-auth, Interdependence of graduate and undergraduate courses in the social services, Proc. Coun. Soc. Work Ed. Address: Box 3541, TWU Station, Denton, Tex. 76204.

BUCKLEY, DR. EDWARD P(ATRICK), b. Bayonne, N.J, May 5, 23; m. 54; c. 4. EXPERIMENTAL PSYCHOLOGY. Ph.D.(exp. psychol), Fordham, 54. RES. EXP. PSYCHOLOGIST, U.S. Naval Res. Lab, 54-57; labs, Franklin Inst, 57-62; DEPT. TRANSPORTATION, NAT. AVIATION FACILITIES EXP. CENTER, FED. AVIATION ADMIN, 62- U.S.A, 43-45. Psychol. Asn; Human Factors Soc. Experimental studies of man-machine systems; human factors in the air traffic control system. Publ: Co-auth, Human factors in the design of systems; Information display in the air traffic control system; Human factors evaluation of a large screen radar display. Address: 619 Revere Ave, Linwood, N.J. 08221.

BUCKLEY, PROF. F(RANCIS) M(ICHAEL), b. Boston, Mass, Apr. 9, 18; m. 57; c. 6. PSYCHOLOGY. A.B, Holy Cross Col, 41; M.A, Boston Col, 46; M.Ed, Harvard, 49, Ed.D.(counseling psychol), 54. Instr. Eng, Ariz. State Col, 46-48; asst. prof. ed, Boston Col, 50-56, assoc. prof. psychol. & ed, 56-60, asst. dir. guid. & counseling, 50-57, lectr, sch. soc. work, 55-60; PROF. PSYCHOL, ASSUMPTION COL.(MASS), 60-, consult. psychol. serv, 60-65, chmn. div. psychol. & ed. & dir. grad. progs. guid. & psychol, 62-67. Consult. psychologist, Mass. Asn. Ment. Health, 52-61; Mass. Gen. Hosp, Boston, 59-; grad. sch. ed, Harvard, 60-; consult. group ther. practice, Worcester Youth Guid. Center, 66- Psychol. Asn; Personnel & Guid. Asn; Group Psychother. Asn; Asn. Existential Psychol. & Psychiat; World Fedn. Ment. Health; Int. Asn. Child Psychiat. Group therapy and group dynamics; counseling process; dynamic, developmental, existential, phenomenological, humanistic and philosophical psychology; study of personality issues; social psychiatry; community mental health practices. Publ: An existential approach to group therapy, In: International handbook of group psychotherapy, Philos. Library, 65; An approach to existential psychology, In: Guidance in American education, Harvard, 66; A philosophy for guidance and counseling, In: Counseling the adolescent, Chandler, 67. Address: 16 Kenilworth Rd, Worcester, Mass. 01602.

BUCKLEY, PROF. JULIAN GERARD, b. Geneseo, N.Y, Jan. 21, 03; m. 38; c. 3. BANKING, FINANCE. A.B, Harvard Col, 28; M.B.A, N.Y. Univ, 37, Ph.D, 52. Instr. FINANCE, N.Y. UNIV, 52-53, asst. prof, 53-56, assoc. prof, 56-65, PROF, 65-; DIR, FIRST INVESTORS STOCK & GROWTH FUNDS, 66- Econ. Asn; Finance Asn. Municipal revenue securities; money and banking; investments. Publ: Co-auth, Over the counter securities markets, Prentice-Hall 61 & 67; Problem manual for investment, Simmons Boardman, 61. Address: 34 Goose Hill Rd, Cold Spring Harbor, L.I, N.Y. 11724.

BUCKLEY, PROF. KENNETH ARTHUR H(AIG), b. Aberdeen, Sask, July 16, 18; m. 45; c. 3. ECONOMICS. B.A, Saskatchewan, 43, Sanderson fel, 47-48, Soc. Sci. Res. Coun, 48-49; M.A, Toronto, 45; Ph.D, London Sch. Econ, 50. Instr. ECON, SASKATCHEWAN, 45-47, asst. prof, 50-53, assoc. prof, 53-57, PROF, 57- Res. assoc, Nat. Bur. Econ. Res, N.Y, 56-57; vis. prof, Washington (Seattle), 59; Ford Found. fel, 61-62. Consult, Royal Cmn. South Saskatchewan River Proj, 52; Royal Cmn. Agr. & Rural Life, 54-57; Dept. Justice, Ottawa, 58-59; Treasury Dept, Govt. Saskatchewan, 60-62. Mem, Conf. Res. Income & Wealth, 55-62; econ. res. inst, Queen's (Ont), 58. Can. Polit. Sci. Asn; Can. Econ. Asn. R.C.A.F, 42-43. Canadian economic development, especially interrelations of population growth and movement and economic development. Publ: Capital formation in Canada, 1896-1930; Population, labour force and economic growth, Banff Sch. Adv. Bus. Mgt, 63; asst. ed. & chap. in, Historical statistics of Canada, Cambridge Univ. & Macmillan of Can, 65. Address: Dept. of Economics, University of Saskatchewan, Saskatoon, Sask, Can.

BUCKLEY, PROF. LOUIS F(RANCIS), b. Galesburg, Ill, Nov, 4, 06; m. 30; c. 2. ECONOMICS. A.B, Notre Dame, 28, M.A, 30; Illinois, 33; Wisconsin, 34, 35, 37-38; Catholic Univ, 38-39. From instr. to assoc. prof. econ, Notre Dame, 29-41; chief legis. sect, Soc. Security Bd, 41-43; prog. br, War Prod. Bd, 43-45; assoc. regional rep, Fed. Security Agency, Cleveland, Ohio, 46-48; employ. security rep, U.S. Dept. Labor, Chicago, Ill, 48-57, dep. regional dir. bur. employ. security, Boston, Mass, 57-59, regional dir, bur. labor statist, 59-62, regional adminstr, bur. employ. security, New York, 62-66; PROF. INDUST. RELS, LOYOLA (ILL), 66- Lectr, Catholic Univ, 41-45; Biarritz Am. Univ, France, 45-46; Western Reserve, 46-48; Loyola (Ill), 48-58; adj. prof, Fordham, 61-62; lectr, Mundelein Col, summer, 67. Consult, bur. employ. security, U.S. Dept. Labor, 67- Award, U.S. Dept. Labor, 67. Econ. Asn; Indust. Rels. Res. Asn. Social insurance; labor market; ethical aspects of economics. Publ: Economics and guidance, In: The interdisciplinary roots of guidance, Fordham, 66; Unions, collective bargaining and the public, Ave Maria, 9/66; Ethical aspects of social insurance, Rev. Soc. Econ, 9/66. Address: Institute of Industrial Relations, Loyola University, 820 N. Michigan Ave, Chicago, Ill. 60611.

BUCKLEY, PAUL V(ERN), b. Sullivan, Ind, Oct. 8, 27; m. 46; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Ind. State Col, 51, M.S, 54; California, Los Angeles, 55-57. Speech therapist, E.Richland Schs, Ill, 51-52, coordinator spec. ed, 52-55; psychologist, Corona Sch. Dist, Calif, 55-56, dir. spec. ed. & psychol. servs, 56-59; spec. servs, Normal Pub. Schs, Ill, 59-60; DIR. spec. serv, Corona Sch. Dist, 60-63, PUPIL PERSONNEL SERVS, CORONA UNIFIED SCH. DIST, 63-; instr. psychol, PEPPERDINE COL, 60-65, ASST. PROF. ED, 65-, RES. ASSOC, 62-, DIR. ANAHEIM BR, 65-, lectr, 56-59. Vis. prof, Redlands, 56; instr, exten. div, California, 60-61. U.S.A, 46-47. Psychol. Asn. Reading development in primary age children under different programs; developmental process in children of distinct ethnic or socio-economic groups; elementary counseling; pupil personnel programs: their development, organization and administration. Address: 900 Howard St, Corona, Calif. 91720.

BUCKLEY, DR. WALLACE T(HOMAS), b. New Hampton, Iowa, Aug. 29, 03; m. 30; c. 1. GEOGRAPHY. B.S, Washington, 29, M.S, 30; Ph.D.(geog), Ohio State, 36. Asst. geog, Ohio State, 31-36; instr. geol. & geog, Indiana, 36-41, asst. prof, 41-47; assoc. prof. GEOG, WASHINGTON STATE, 47-52, PROF, 52- U.S.A.A.F, 43-46, Maj. Asn. Am. Geog. Economic geography; conservation of natural resources. Address: Dept. of Geography, 329 Todd Hall, Washington State University, Pullman, Wash. 99163.

BUCKLEY, DR. WALTER, b. Lynn, Mass, Apr. 17, 21; m. 55; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Brown, 52; Fulbright fel, Paris, 52-53; Ph.D.(sociol), Wisconsin, 58. Intern sociol, Brown, 55-56; instr, Vassar Col, 56-57; sr. human factors specialist, Syst. Develop. Corp, 57-59, assoc. human factors scientist, 60-62; asst. prof. SOCIOL, CALIFORNIA, SANTA BARBARA, 62-67, ASSOC. PROF, 67- Soc. Gen. Systs. Res; Sociol. Asn. General sociological theory; social stratification and organization; political sociology; general systems theory; computer simulation of social processes. Publ: Sociology and modern systems theory, Prentice-Hall, 67; ed, Modern systems research for the behavioral scientist, Aldine, 68; Structural functional analysis in modern sociology, In: Modern sociological theory. Address: Dept. of Sociology, University of California, Santa Barbara, Calif. 93106.

BUCKMAN, DR. RILMA O(XLEY), b. Woodstock, Vt, July 18, 15. SOCIOLOGY. B.A, Mt. Holyoke Col, 37; M.A, N.Y. Univ, 45; Ph.D.(sociol), Chicago, 52; M.S.W, Michigan, 55. Admin. asst, Am. Red Cross, N.Y. & Japan, 42-46; asst. pub. welfare officer, Eighth Army Mil. Govt. Sect, Japan, 46-47; instr. sociol. & counsr, dean women's off, Purdue, 48-53, asst. prof. sociol, 53-54; secy. health & rehab. div, Toledo Coun. Soc. Agencies, 55-58; acting exec. secy. health div, Welfare Coun. Metrop. Chicago, 58-63; planning assoc. & process analyst, Cleveland Health Goals Proj, GREATER CLEVELAND MENT. RETARDATION DEVELOP. PROJ, WELFARE FEDN. CLEVELAND, 63-66, PROJ. DIR, 63- Lectr, sch. soc. work, Michigan, 54-58. Sociol. Asn; Rehab. Asn; Asn. Ment. Deficiency; Asn. Soc. Workers. Community and social organization; social psychology. Publ: Interaction between women's clubs and institutions in Greater Lafayette, Indiana; Mental retardation blueprint for action; Process analysis of the Cleveland health goals project. Address: Welfare Federation of Cleveland, 1001 Huron Rd, Cleveland, Ohio 44115.

BUCKMAN, WILLIAM BOYD, b. Baltimore, Md, Feb. 21, 20; m. 49; c. 2. ECONOMICS, STATISTICS. B.S, Maryland, 47; M.A, George Washington, 50. Statistician & economist, U.S. Dept. Labor & U.S. Dept. Defense, 49-55; mgr. res, Asn. Casualty & Surety Cos, N.Y, 55-61; dir. res, West. & South. Life Ins. Co, 61-66; DIR. POSTAL RATES DIV, BUR. FINANCE & ADMIN, U.S. POST OFF. DEPT, 66- U.S.A.A.F, 43-45, Sgt. Statist. Asn. Address: U.S. Post Office Dept, 12th & Pennsylvania Ave, Washington, D.C. 20975.

BUCKNER, DR. DONALD NEIL, b. Conrad, Mont, Aug. 10, 23; m. 52; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Southern California, 52, Ph.D.(psychol. measurement), 59. Asst, Mgt. & Mkt. Res. Corp, 52, res. assoc, 52-54, proj. dir, 54-55, EXEC. V.PRES, HUMAN FACTORS RES, INC, 56- U.S.A, 43-45. Psychol. Asn. Human vigilance; performance criteria; human motivation. Publ: Individual differences in vigilance performance; Human

performance as a function of drive and incentive motivation; Predictability of ratings as a function of interrater agreement. Address: 957 La Senda, Santa Barbara, Calif. 93017.

BUDD, PROF. EDWARD C(ARHART), b. Summit, N.J, Feb. 20, 20; m. 43; c. 4. ECONOMICS. A.B, California, 42, Ph.D, 54. Price economist, Off. Price Admin, 44-46; asst. ECON, California, 46-49; asst. prof, Illinois, 49-51; instr, Oregon, 51-52, Yale, 52-54, asst. prof, 54-61; PROF, PA. STATE, 61- Consult. income size distribution, Off. Bus. Econ, U.S. Dept. Commerce, 66- Mem. conf. res. in income & wealth, Nat. Bur. Econ. Res. Econ. Asn. National income accounting and analysis; income distribution and income shares; economic theory. Publ: Ed, Inequality and poverty, Norton, 67; co-auth, The product side: some theoretical aspects, In: A critique of the United States income and product accounts, Studies Income & Wealth; auth, The state of income distribution theory, In: Income distribution analysis, N.C. State Univ, 66. Address: Dept. of Economics, Boucke Bldg, Pennsylvania State University, University Park, Pa. 16802.

BUDD, DR. RICHARD W(ADE), b. Henderson, Md, Aug. 24, 34; m. 55; c. 2. MASS COMMUNICATION. B.S, Bowling Green State, 56; M.A, Iowa, 62, Ph.D.(mass commun), 64. Reporter, Bowling Green Sentinel-Tribune, Ohio, 55-56; staff writer, Dayton Daily News, 56-57; asst. JOURNALISM, IOWA, 60-62, instr, 62-64, asst. prof, 64-67, ASSOC. PROF, 67-, DIR. MASS. COMMUN. RES. BUR, 65, ASSOC. DIR. SCH. JOURNALISM, 67-, asst. to dir, 62-64. News anouncer, KXIC, Iowa City, 60-61. Consult, Agency Int. Develop, Off. Econ. Opportunity & Columbia Broadcasting Syst, 65-; Job Corps Center, Clinton, Iowa, 68- U.S.N, 57-60, Res, 60-64, Lt. Asn. Pub. Opinion Res; Asn. Ed. Journalism; Soc. Study Commun. Research and development in communication education; content analysis; teenage communication patterns, values and sources of news and information. Publ: Co-auth, An introduction to content analysis, Univ. Iowa, 63; Content analysis of communications, Macmillan, 67; U.S. news in the press down under, Pub. Opinion Quart, 64. Address: School of Journalism, University of Iowa, Iowa City, Iowa 52240.

BUDD, PROF. WILLIAM CLAUDE, b. Maple Plain, Minn, Feb. 21, 23; m. 44; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Hamline, 44; Chicago, 46-47; B.S. & M.A, Minnesota, 48, Ph.D.(ed), 51. Asst. prof. ed, Goucher Col, 51-53; asst. prof. PSYCHOL, WEST. WASH. STATE COL, 53-57, assoc. prof, 57-64, PROF, 64- U.S.N.R, 44-46, Lt.(jg). Ed. Res. Asn; Coun. Measurement in Ed; Psychol. Asn. Higher education; human learning; educational and psychological measurements; research in English composition; philosophical psychology. Address: Dept. of Psychology, Western Washington State College, Bellingham, Wash. 98225.

BUDIN, PROF. MORRIS, b. Jersey City, N.J, July 17, 20; m. 48; c. 2. ECONOMICS. B.A, N.Y. Univ, 41, M.P.A, 47; Ph.D, New Sch. Soc. Res, 54. Instr. econ, Mohawk Col, 47-48; asst. prof. bus. statist. & econ, Syracuse, 48-58, assoc. prof, 58-62, PROF. bus. statist, 62-64; BUS. & ECON, HARPUR COL, STATE UNIV, N.Y. BINGHAMTON, 64-, CHMN. DEPT. BUS. & ACCT, 67- Ford Found. grant, Harvard, summer 62. Economist, Int. Coop. Admin, India, 58-60. Consult, H.P. Snyder Co, 51-52; Utica Deep Forge, 53-54; Carpenters & Joiners, 56; Govt. India, 62-63; urban develop. consult, N.Y, Vt, W.Va. Econ. Asn; Statist. Asn. Price theory; decision making processes; development of underdeveloped areas. Publ: Statistical measurement for economics and administration, Tablinger, 62; Effective reporting systems for management, Hosp. Prog, 65; The utilization of Indian industrial capacity, Indian Econ. J, 7/61. Address: 920 Cherry Lane, Vestal, N.Y. 13850.

BUDISH, PROF. BERNARD ELLIOTT, b. Newark, N.J, May 4, 26; m. 51; c. 3. MANAGEMENT SCIENCE. B.S, Columbia, 48, M.A, 49; Ph.D.(bus. ed), N.Y. Univ, 56. From instr. to PROF. MGT, FAIRLEIGH DICKINSON, 52-, asst. dean, Col. Bus, 56-63. Found. Econ. Ed. fel, Pub. Serv. Elec. & Gas Co, 58 & Sinclair Oil Co, 64. Consult, various companies. Ed, Bus. Rev, 60- U.S.A, 44-46. Indust. Rels. Res. Asn. Labor relations; executive development; personnel management; office unionism. Publ: Techniques of performance appraisal, spring 66, The process of management, winter 66, & Business enterprise planning, summer 67, Bus. Rev. Address: Dept. of Management, Fairleigh Dickinson University, 285 Madison Ave, Madison, N.J. 07940.

BUDNER, DR. STANLEY, b. New York, N.Y, Nov. 12, 33; m. 61. SOCIAL PSYCHOLOGY. B.A, City Col. New York, 55; Ford Found. fel, Columbia, 55-56, Ph.D.(soc. psychol), 60. Asst, bur. appl. soc. res, Columbia, 56-58, soc. psychol, univ, 57-58; sr. res. psychologist ment. health, N.Y. State Psychiat. Inst, 59-61; asst, col. physicians & surg, 60-62; res. assoc, res. center, sch. soc. work, Columbia, 61-67; DIR. & ASSOC. PROF, RES. CENTER, SCH. SOC. SERV, FORDHAM, 67- Lectr, Hunter Col, 60-67; res. assoc, bur. child guid, New York Bd. Ed, 61-62. Consult, ment. retardation center, N.Y. Med. Col, 62-; Retarded Infants Servs, Inc, 64-; N.Y. Psychiat. Inst, 65- Asn. Ment. Deficiency; Sociol. Asn. Culturally determined retardation; problems of evaluation research; program development in retardation and poverty. Address: 680 West End Ave, New York, N.Y. 10025.

BUDZEIKA, DR. G(EORGE), Econ, see 10th ed, Soc. & Behav. Vols.

BUDZINOWSKI, PROF. S(TANISLAW) W(ITOLD), b. Golonog, Poland, Oct. 14, 05; nat; m. 33. ECONOMICS. Cert, Bydgoszcz, 26; l.Sc.Ec, l'Inst. Superieur de Commerce d'Anvers, 29. Trainee asst, State Export Inst, Warsaw, 29-30, econ. analyst, 33-35; commercial attache, Polish Legation, Spain, 35-38; econ. analyst, Ministry For. Affairs, Warsaw, 38-39; commercial attache Polish Embassy, Bucharest, 39-40; prof, Polish Jr. Cadet Sch, 43-45; Polish Col, 45-48; PROF. ECON, DETROIT, 49- Polish Army, 40-45. Econ. Asn. International economics and finance; economic geography. Publ: Contrib, Polski Export. Address: 16816 Stoepel Ave, Detroit, Mich. 48221.

BUECHNER, DR. JOHN C, b. Cleveland, Ohio, July 30, 34; m. 56; c. 3. POLITICAL SCIENCE. B.A, Col. Wooster, 56; M.P.A, Michigan, 58, Ph.D.(polit. sci), 63. Instr. POLIT. SCI, Fla. State, 57-60; asst. prof, COLORADO, 63-65, ASSOC. PROF, 65-, DIR. GOVT. RES, 63- Nat. Sci. Found. summer inst. grant, Southern Methodist, 65. Urban and state affairs; role analysis in urban government. Publ: State government in 20th Century, Houghton, 67; co-auth, American government: concepts in context, Wadsworth, 68; auth, Public administration, Dickenson, 68. Address: Dept. of Political Science, University of Colorado, 201 E. Hellems, Boulder, Colo. 80302.

BUEGEL, DR. HERMANN F(REDERICK), b. St. Thomas, N.Dak, June 9, 97; m. 46; c. 2. PSYCHOLOGY. B.S, North Dakota, 33, M.S, 34, Ph.D.(psychol), 38. Asst, NORTH DAKOTA, 35-38, asst. prof. PSYCHOL, 39-43, assoc. prof, 43-54, prof. & head dept, 54-63, EMER. PROF, 63-; SUPVRY. CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, MINNEAPOLIS, 65- Clin. fel, Univ. Minnesota & Vet. Admin. Hosp, Minneapolis, 60-61; clin. psychologist, Vet. Admin. Hosp, Ft. Meade, S.Dak, 62-65; assoc. clin. prof, Minnesota, 66- AAAS; fel. Psychol. Asn; Statist. Asn; Psychomet. Soc; Soc. Proj. Tech. Psychodiagnostics; psychotherapy; neurochemical communication. Address: 9710 Upton Rd, Bloomington, Minn. 55431.

BUEHLER, PROF. ALFRED G, b. Swanton, Ohio, May 10, 00. PUBLIC FINANCE. A.B, Heidelberg Col, 22, L.H.D, 50; A.M, Yale, 23, Ph.D, 30. Asst. prof, Lawrence Col, 34-35; econ. Vermont, 25-29, assoc. prof, 29-39; polit. sci, PENNSYLVANIA, 39-42, PROF. PUB. FINANCE, 42-, DIR, PUB. FINANCE CENTER, 65- Vis. prof, Pennsylvania, 38. Tax consult. Pres, Nat. Tax Asn, 51-52 Econ. Asn; Polit. Sci. Asn; Tax Inst.(pres, 50; v.pres, 51). Publ: public finance; taxation; business taxation. Publ: Public finance. Address: Public Finance Center, University of Pennsylvania, Philadelphia, Pa. 19104.

BUEHLER, DR. JOHN A(RTHUR), Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BUEHLER, DR. ROY EDWARD, b. Wis, Feb. 1, 07; m. 46; c. 2. PSYCHOLOGY. A.B, Fletcher Col, 30; M.A, Northwestern, 35; Ph.D (psychol), Wisconsin, 52. DIR. RES. & TRAINING DIV. BEHAV. THER. INST, 67- Research, training and consultation on social systems. Address: Behavior Therapy Institute, 300 Valley St, Sausalito, Calif. 94965.

BUEHRIG, PROF. EDWARD H(ENRY), b. Minier, Ill, Oct. 4, 10. INTERNATIONAL RELATIONS. Ph.B, Chicago, 32, A.M, 34, Ph.D, 42. From instr. to PROF. GOVT, INDIANA, 34- Soc. Sci. Res. Coun. fel. int. orgn, 65-66. Smith-Mundt vis. prof, American Univ. Beirut, 57-58. Mem, Inst. Adv. Study, 48; Nat. War College, 51; Brookings Inst, 52. Officer, U.S. Dept State, 44-46; mem. U.S. Delegation, San Francisco & London & sr. secy, cmn. experts for invest, Italo-Yugoslav boundary, 46; consult, UN, 47. Polit. Sci. Asn; Soc. Int. Law. International organization and American policy. Publ: Woodrow Wilson and the balance of power; ed, Wilson's foreign policy in perspective; The international pattern of authority, World Politics 4/65. Address: Dept. of Government, Indiana University, Bloomington, Ind. 47401.

BUEL, PROF. JACK, b. Pasadena, Calif, July 16, 05; m. 28; c. 2. PSYCHOLOGY. A.B, California, 29, fel, 30-31, Ph.D, 35. Asst. psychol, California, 32-37, tech. asst, inst. child welfare, 32-35; res. asst. & instr, Wesleyan, 37-40, asst. prof, 40-42; assoc. prof, Wyoming, 46; aviation psychologist, Sch. Aviation Med, 42-46, chief dept. psychol, 47-48, dep. for res, 48-49, res. adv, 49-50; Air Force rep. to Res. & Develop. Bd. & Personnel Policy Bd, Off. Secy. Defense, 50-51; spec. asst. & proj. officer, surg. gen, Aeromed. Center, U.S. Air Force, 51-54, dir. utilization planning, Personnel & Training Res. Center, 54, skill components res. lab, Lackland Air Force Base, 54-56, operator lab, Randolph Air Force Base, 56-57, asst. proj. officer, aerospace med. center, Air Univ, Brooks Air Force Base, 57-59, spec. asst. to comdr. & chief, airman proficiency test br. Personnel Lab, Lackland Air Force Base, 59-60; prof. psychol, Trinity (Tex), 60-62; prin. scientist human factors, space & info. systs. div, N.Am. Aviation, Inc, 62-64; personnel analyst, mil. personnel center, Hq. U.S. Air Force, Randolph Air Force Base, Tex, 65-67; prof. psychol. & human eng, St. Mary's (Tex), 67-68; PROF. PSYCHOL. & CHMN. DEPT, TULANE, 68- Consult, Res. & Develop. Bd, 50. U.S.A.F, 42-60, Col. AAAS; fel. Psychol. Asn. Perceptual motor skills and learning; psychomotor selection and classification tests; training devices. Address: Dept. of Psychology, Tulane University, New Orleans, La. 70118.

BUEL, DR. WILLIAM D(ENHAM), b. Allentown, Pa, June 17, 30; m. 57; c. 3. INDUSTRIAL PSYCHOLOGY, STATISTICS. B.A, Temple, 55, M.A, 56; Ph.D. (indust. psychol, statist), Ohio State, 58. Personnel asst, Pure Oil Co, 58-61; dir. indust. div, Sci. Res. Assocs, 61-62; dir. res, Humber, Mundie & McClary, 62-63; STAFF PSYCHOLOGIST, VERNON PSYCHOL. LAB, 63- Lectr, eve. div, Northwestern, 59- U.S.A, 47-49, Res, 50-51, T/Sgt. Psychol. Asn. Predictive statistics; personnel selection research; identification of creative research personnel; performance evaluation: Publ: Voluntary female clerical turnover: the concurrent and predictive validity of a weighted application blank, 48: 180-182 & Biographical data and the identification of creative research personnel, 49: 318-321, J. Appl. Psychol; Application blanks, personal history, and the evaluation of credit risk, The Ill. Banker, 49: 6, 16, 30. Address: 1427 S. Evergreen, Arlington Heights, Ill. 60005.

BUELL, BRADLEY, Soc. Econ, see 10th ed, Soc. & Behav. Vols.

BUELL, PROF. ERWIN C(LYDE), b. Roanoke, Tex, Sept. 20, 18. POLITICAL SCIENCE. B.S, N.Tex. State Col, 41, M.S, 47; Latin Am. Inst. fel, North Carolina, 52, Ph.D, 55. Asst. prof. hist. & govt, Midwestern, 48-50; instr. polit. sci, North Carolina, 51-52; asst. prof, Davidson Col, 52-55; Lamar State Col. Tech, 55-56; Baylor, 56-58, assoc. prof, 58-60; prof, Memphis State, 60-67, chmn. dept, 62-67; ASSOC. PROF. GOVT, NORTH TEXAS STATE, 67- U.S.A.A.F, 43-45. Polit. Sci. Asn. Inter-American relations; expropriation of oil property in Mexico and the effect on United States and Mexico relations. Publ: Institute of inter-American affairs, a study of intergovernmental relations; co-auth, State and local government-reader, Scott, 68; Change in city government (Memphis, Tenn), Am. City, fall 67. Address: Dept. of Government, North Texas State University, Denton, Tex. 76203.

BUERKLE, PROF. JACK V(INCENT), b. West Frankfort, Ill, Aug. 9, 23; m. 46; c. 2. SOCIAL PSYCHOLOGY. B.S, Illinois, 48, M.A, 49; Ph.D.(soc. psychol), Iowa, 54. Instr. soc. sci, Iowa, 52-54; asst. prof. sociol. & anthrop. & chmn. dept, Lake Forest Col, 54-55; instr. sociol, Yale, 55-57, asst. prof, 57-60; assoc. prof. sociol. & anthrop, TEMPLE, 60-64, PROF. SOCIOL, 64- Vis. prof, Mannheim Sch. Econ, 66-67. Res. design consult, Norwich State Ment. Hosp, Conn, 59-60. U.S.A, 43-46. Psychol. Asn; Sociol. Asn. Social psychological approach to nursing institutional areas; mental health; family and industrial interaction; racial relations. Address: Dept. of Sociology, Temple University, Philadelphia, Pa. 19122.

BUETTNER-JANUSCH, PROF. JOHN, b. Chicago, Ill, Dec. 7, 24; m. 50. PHYSICAL ANTHROPOLOGY, GENETICS. Ph.B, Chicago, 48, B.S, 49, Nat. Sci. Found. fel, 52-53, A.M, 53; Rackham univ. fel, Michigan, 56-57, Ph.D. (anthrop), 57. Instr. anthrop. & res. asst. prev. med, Utah, 53-55; asst, heredity clin, Michigan, 55-56, human genetics, 56-57, phys. anthrop, 57-58; asst. prof. anthrop, Yale, 58-62, assoc. prof, 62-65; ANAT. & ZOOL, DUKE, 65-67, PROF, 67- Instr, dept. sociol. & anthrop, Wayne, winter, 56; U.S. Pub. Health Serv. res. career develop. award, 62; Nat. Sci. Found. sr. faculty fel, 62-63. Res. assoc, Southwest Found. Res. & Ed, 60-; biochem. dept, Duke Univ, Wellcome Trust Lab, Kenya & Pasteur Inst, Madagascar, 62-63; res. trip, European mus, zoos & labs, 66. Fel. AAAS; fel. Anthrop. Asn; Asn. Phys. Anthrop; Soc. Human Genetics; fel. N.Y. Acad. Sci. Human evolution; evolution of all Primates. Publ: Ed, Evolutionary and genetic biology of primates, Vol. I, II, Acad. Press, 63, 64; auth, Origins of man, Wiley, 66. Address: Dept. of Anatomy, Duke University, Durham, N.C. 27706.

BUFF, DR. JOSEPH A(NDREW), b. Syracuse, N.Y, May 28, 08; m. 32; c. 12. ECONOMICS. B.S, Niagara, 29; M.S, Syracuse, 30; Ph.D, Georgetown, 32. Prof. econ, St. Mary's Col.(Minn), 33-36; econ. & statist, Manhattan Col, 36-37; St. Bonaventure Col, 37-40; PROF. ECON. & CHMN. BUS. DIV, SIENA COL, 40- Prof. & ed. dir, Olean chapter, Am. Inst. Banking, 38-40; price & rationing exec, Albany dist, Off. Price Admin, 42-46; price exec, Off. Price Stabilization, 51-52; mem. faculty, N.Y. State Sch. Indust. Rel, 46-47, 55-56; instr, Am. Col. Life Underwriters, 49-50. Econ. Asn; Statist. Asn; Agr. Econ. Asn; Finance Asn; Econ. Hist. Asn; Acad. Polit. & Soc. Sci. Conditions of research in Catholic colleges; teaching of economic principles in Catholic high schools. Publ: History of federal regulation of banking; Investment trust, its relation to the small investor; Vitalizing by visualizing, Cath. Bus. Ed. Rev. Address: Business Division, Siena College, Loudonville, N.Y. 12211.

BUFFA, PROF. ELWOOD S, b. Beloit, Wis, Apr. 12, 23; m. 45; c. 2. BUSINESS MANAGEMENT. B.S, Wisconsin, 46, M.B.A, 48; Ph.D.(eng), California, Los Angeles, 57. Indust. engr, Eastman Kodak Co, 48-51; asst. prof. eng, Illinois, 51-52; lectr. BUS. ADMIN, CALIFORNIA, LOS ANGELES, 52-57, assoc. prof, 57-61, PROF, 61- Prof, Grad. Bus. Sch, Italy, 58; consult. ed. mgt. & admin. series, John Wiley & Sons, 66. Inst. Mgt. Sci; Opers. Res. Soc; Inst. Indust. Eng; Acad. Mgt. Analysis of production systems and applications of quantitative methodology. Publ: Modern production management, 2nd ed, 65 & Operations management: problems and models, 2nd ed, 68, Wiley; Production-inventory systems: planning and control, Irwin, 68. Address: Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

BUGANSKY, DR. ALEX NATHAN, b. Kielce, Poland, Mar. 13, 16; nat; m. 48. PSYCHOLOGY. B.S, Brooklyn Col, 36; M.A, N.Y. Univ, 48, Ph.D, 58. Dir. classification, Dept. Correction, New York, 56-60; CHIEF PSYCHOLOGIST, FAMILY COURT, JUVENILE TERM, N.Y. STATE, 60- Fel, Inst. Practicing Psychotherapists, 66- Consult, State Dept. Soc. Welfare, 60. Psychol. Asn. Criminology and juvenile delinquency; projective devices and personality evaluative techniques; psychotherapy; analysis of ethnic prejudices; psychoanalysis. Address: 2315 Walton Ave, Bronx, N.Y. 10468.

BUGDEN, DR. WILLIAM F(RANCIS), b. Boston, Mass, Apr. 29, 21; m. 47; c. 4. SOCIOLOGY. A.B, Boston Col, 42, M.A, 51; Ph.D.(sociol), Pa. State, 54. Instr. soc. sci, Scranton, 47-50; asst. prof. sociol, Col. Holy Cross, 53-57; supvr. res, State Dept. Correction, Mass, 57-63; DIR. RES, OFF. CMNR. OF PROBTN, COMMONWEALTH MASS, 63- Lectr, sch. nursing, Worcester City Hosp, 54-; univ. exten, State Dept. Ed, Mass, 54-66; Marist Sem. & Col, 59-67; Mass. State Col. Framingham, 66- Ed, Mass. Probtn. Quart. Newsletter, 66- Dir, Pioneer Group Narcotic Addicts Anonymous, Mass. Correctional Inst, Walpole, 62-67. U.S.C.G, 42-46. Sociol. Asn; Nat. Coun. Crime & Delinquency. Criminology; medical and educational sociology. Publ: Statistical analysis of 164 female offenders at Massachusetts Correctional Institution, Framingham, January 1, 1959, Analysis of convictions of murder in the first degree in Massachusetts from January 1, 1900 to December 31, 1962 & Psycho-social study of 160 male inmates serving a life sentence for murder in institutions of the Massachusetts Department of Correction, January 1, 1959, Mass. Dept. Correction, 63. Address: 35 America St, Framingham, Mass. 01701.

BUGELSKI, PROF. B(ERGEN) R(ICHARD), b. Apr. 3, 13; m. 37; c. 2. PSYCHOLOGY. B.A, Buffalo, 34, M.A, 35; Ph.D, Yale, 38. Instr. PSYCHOL, Antioch Col, 37-39; asst. prof, Toledo, 39-43; PROF, BUFFALO, 46-, CHMN. DEPT, 66- U.S.N.R, 43-45, Lt. Psychol. Asn. Learning; experimental psychology. Publ: First course in experimental psychology; Psychology of learning applied to teaching; Introduction to the principles of psychology. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

BUGENTAL, DR. J(AMES) F(REDERICK) T(HOMAS), b. Ft. Wayne, Ind, Dec. 25, 15; m. 39; c. 2. PSYCHOLOGY. B.S, West Texas State Col, 40; M.A, Peabody Col, 41; Ph.D.(psychol), Ohio State, 48. Asst. dir. vet. guid. center, Ga. Sch. Tech, 44-46; U.S. Pub. Health Serv. fel, 47-48; asst. prof. psychol, California, Los Angeles, 48-54; PARTNER, PSYCHOL. SERV. ASSOCS, 53- Clin. psychologist, Lawson Gen. Hosp, Atlanta, Ga, 45-46; res. consult, Stanford Res. Inst, 68-69. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 49-, Lt. Fel. Psychol. Asn; Acad. Psychother. Personality theory; psychotherapy; human relations training. Publ: Psychological interviewing; Search for authenticity, Holt, 65; Challenges of humanistic psychology, McGraw, 67. Address: Psychological Service Associates, 1314 Westwood Blvd, Los Angeles, Calif. 90024.

BUGG, DR. EUGENE G(OWER), b. Nashville, Tenn, June 2, 01; m. 32; c. 1. PSYCHOLOGY. B.S, George Peabody Col, 24; fels, Vanderbilt, 27-29, A.M, 28, Ph.D.(psychol), 33. Instr. psychol, VANDERBILT, 32-40, asst. prof. philos. & psychol, 40-45, assoc. prof, 46-52, PHILOS, 52-66, EMER. ASSOC. PROF, 66- Psychol. Asn; Soc. Aesthetics. Music; mental tests; experimental aesthetics. Publ: Experimental study of factors influencing consonance judgments, Psychol. Monogr; co-auth, Significance of tonal memory for musicality & Experimental test of the genetic theory of consonance, J. Gen. Psychol. Address: 518 Rochelle Dr, Nashville, Tenn. 37220.

BUHLER, PROF. CHARLOTTE, b. Berlin, Germany, Dec. 20, 93; nat; m. 16; c. 2. PSYCHOLOGY. Ph.D, Munich, 18. Assoc. prof. psychol, Vienna, 22-38; prof, Oslo, 38-40; St. Catherine Col, 40-41; guest prof, Clark, 41-42; clin. psychologist, Minneapolis Gen. Hosp, 42-45; Los Angeles Gen. Hosp, 45-53; ASST. CLIN. PROF. PSYCHIAT, SOUTHERN CALIFORNIA, 49- Laura Spelman Rockefeller Found. fel, 25; Rockefeller fel, 35. Psychol. Asn; Soc. Proj. Tech; Asn. Adv. Psychother. Clinical and developmental psychology; individual and group psychotherapy. Publ: Childhood problems and the teacher; Value problems in psychotherapy, Macmillan, 62; The course of human life, a study of goals in the humanistic perspective, Springer, 68. Address: 999 N. Doheny Dr, Los Angeles, Calif. 90069.

BUHLER, DR. KARL, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

BUITRON, ANIBAL, Anthrop, see 10th ed, Soc. & Behav. Vols.

BUKOVSKY, A(LEXIS) P(AUL), b. Daugavpils, Latvia, June 11, 10; U.S. citizen; m. 51. TRANSPORTATION ECONOMICS. B.S, Michigan, 30, Earhart fel, 33-34; Strathcona fel, Yale, 30-31, M.S, 31. Asst. dir. res, Nat. Hwy. Users Conf, 35-38; statistician, price anal. unit, Nat. Bituminous Coal Cmn, 38-39; statist. & econ. analyst, bituminous coal div, U.S. Dept. Interior, 39-43; econ. & statist. analyst, bur. transport econ. & statist, Interstate Commerce Cmn, 43-52, transportation economist, 53-57; econ. & statist. br, transportation & commun. serv, Gen. Serv. Admin, 57-60, acting chief, 60-61, chief, 61-68; SR. ASSOC, PLANNING RES. CORP, 68- Economist, transportation br, Off. Price Stabilization, 52-53. Gen. Serv. Admin. awards, 66 & 67. Transportation Res. Forum; Econ. Asn; Statist. Asn. Publ: Rail-water rate adjustments; Interagency rate adjustments-rail and motor; Data processing and rate simplification in GSA, Automation Breakthrough, 65. Address: 3336 Broad Branch Terr. N.W, Washington, D.C. 20008.

BULGREN, DR. WILLIAM G, b. Anamosa, Iowa, Aug. 7, 37; m. 60; c. 2. STATISTICS. B.A, Iowa, 59, M.S, 61, Ph.D.(statist), 65. ASST. PROF. STATIST, MISSOURI, 65-, ACTING DIR. COMPUTER CENTER, 67-, sr. res. analyst, 65-67. Statist. Asn; Biomet. Soc; Asn. Comput. Mach. Computer science. Publ: Co-auth, Computer applications in medicine, C.C. Thomas, 64. Address: Dept. of Statistics, University of Missouri, Columbia, Mo. 65201.

BULKLEY, DR. JONATHAN WILLIAM, b. Kansas City, Mo, May 17, 38; m. 62; c. 1. POLITICAL SCIENCE, CIVIL ENGINEERING. S.B.(polit. sci) & S.B.(civil eng), Mass. Inst. Tech, 61, S.M, 63, Ph.D.(polit. sci), 66. Instr. polit. factors & civil eng. systs, Mass. Inst. Tech, 63-66; SYSTS. ANALYST STRATEGIC MOBILITY, ORGN. JOINT CHIEFS STAFF, PENTAGON, 66- U.S.A.R, 66-, Capt. AAAS; Soc. Civil Eng; Polit. Sci. Asn. Application of computer techniques to the generalized problem of optimum resource allocation. Publ: Co-auth, On the water resource problems of Latin America, 10/65 & Simulation of political interaction in multiple purpose river basin development, 10/66, tech. reports, Mass. Inst. Tech. Address: 1301 S. Arlington Ridge Rd, Arlington, Va. 22202.

BULL, ELWYN M(AURICE), b. Harborton, Va, Aug. 19, 19; m. 44; c. 2. ECONOMICS. B.A, Virginia, 48, M.A, 50. Res. asst, bur. pop. & econ. res, Univ. Virginia, 48-51; economist, Dist. Off. Price Stabilization, Richmond, Va, 51-52; economist, Cent. Intel. Agency, 52-63; proj. dir. indust. studies, off. econ. & manpower studies, Nat. Sci. Found, 63-64; MEM. TECH. STAFF, RES. ANAL. CORP, 64- Econ. Asn. Economics of the investment goods industries, including development of techniques of measurement; interindustry economics and its applications to measuring industrial and regional impacts of military procurement; development related new techniques of impact measurement. Publ: Retail sales in Virginia, 1939-1948, Bur. Pop. & Econ. Res, Univ. Virginia, 51; co-auth, Methodology for industry impact analysis, 3/66 & Economic impact analysis; a military procurement final demand vector, 3/67 & 5/67, Res. Anal. Corp. Address: Research Analysis Corp, Economics & Costing Dept, McLean, Va. 22101.

BULL, NINA, b. Buffalo, N.Y, Nov, 4, 80; m. 01; c. 3. ATTITUDE PSYCHOLOGY. Pres, Brain Res. Found, Inc, 30-40; res. assoc. psychiat, col. physicians & surg, Columbia, 40-50; dir. psychol. res. proj. study motor attitudes, State Psychiat. Inst, N.Y, 50-60; RES. & WRITING, 60- AAAS; Psychol. Asn; fel. N.Y. Acad. Sci. Body-mind relation in emotion; role of motor attitude in emotion and purpose; goal-oriented attitude and its breakdown leading to the complex of frustration and depression; physiological basis of resentful feelings and pride. Publ: The body and its mind: an introduction to attitude psychology, Las Americas, 62; Attitude theory of emotion, Nerv. & Ment. Disease Monogr, 51 & Johnson Reprint, 68; Mechanism of goal orientation and the manner of its disruption, J. Nerv. & Ment. Disease, 7/55. Address: 310 E. 55th St, New York, N.Y. 10022.

BULL, DR. PATRICIA A(NN), b. Syracuse, N.Y, Oct. 15, 26. PSYCHOLOGY. A.B, Syracuse, 49; M.S, State Univ. N.Y. Col. Oswego, 53; D.Ed.(ed. psychol), Pa. State, 61. Teacher, elem. schs, N.Y, 50-52; jr. high teacher soc. studies, State Univ. N.Y. Col. Oswego, 52-54; assoc. prof. psychol, State Univ. N.Y. Col. Cortland, 54-67; CONSULT. ED. CHANGE, CENTER ON INNOVATION, N.Y. STATE ED. DEPT, 67- Dir. summer camp, Otisco Lake Co-ed Camp, 53-56; instr. prfnl. ed, Pa. State, 61; vis. fel, West. Behav. Sci. Inst, La Jolla, Calif, 66-67. Psychol. Asn. Human learning, especially student-

centered and self-directed, independent learning; innovation in the student-teacher role relationship. Address: Center on Innovation in Education, State Education Dept, Albany, N.Y. 12224.

BULLARD, PROF. CHARLES W(INSTON), b. Richmondhill, N.Y, Dec. 31, 14; m. 40; c. 3. ECONOMICS. A.B, Ohio, 40, M.A, 48; Iowa, 51-54; Ford Found. fel, Minnesota, 58-59. Asst. dean men, Ohio, 46-48; asst. prof. ECON, NORTH DAKOTA, 48-50, ASSOC. PROF, 55-, CHMN. DEPT, 60-, dean men, 50-52. U.S.N.R, 42-46, Res, 46-, Comdr. Regional analysis of income determination and economic development. Publ: Co-auth, Population, income and labor force in North Dakota, Univ. North Dakota, 53. Address: Dept. of Economics, University of North Dakota, Grand Forks, N.Dak. 58201.

BULLARD, DR. WILLIAM R(OTCH), JR, b. Springfield, Mass, June 4, 26. ANTHROPOLOGY. A.B, Harvard, 50, A.M, 55, Ph.D, 60. Instr. anthrop, Harvard, 60-61; field dir. Brit. Honduras Proj, Royal Ont. Mus, 61-63; asst. dir, PEABODY MUS, HARVARD, 63-68, ASST. CURATOR MAYA ARCHAEOL, 68- U.S.A.A.F, 44-46. Fel. Anthrop. Asn; Soc. Am. Archaeol. Archaeology of North and Middle America. Publ: The Cerro Colorado site and pithouse architecture in the Southwest United States, 62 & co-auth, Prehistoric Maya settlements in the Belize Valley, 65, Peabody Mus. Papers, Harvard; auth, Excavations at San Estevan, British Honduras, Royal Ont. Mus. Occasional Papers, 65. Address: Peabody Museum, Harvard University, Cambridge, Mass. 02138.

BULLEN, ADELAIDE K(ENDALL), b. Worcester, Mass, Jan. 12, 08; m. 29; c. 2. ANTHROPOLOGY. A.B, Radcliffe Col, 43; fel, Harvard, 44-46. Res. anthropologist, health center, Radcliffe Col, 43-44; fatigue lab, Harvard, 44-46, ANTHROPOLOGIST data anal, Peabody Mus, 46-48; FLA. STATE MUS, 48- Civilian consult, Dept. Army, 46-48. Fel. AAAS; fel. Anthrop. Asn; Asn. Phys. Anthrop; Soc. Appl. Anthrop; Psychosom. Soc; Soc. Res. Child Develop; Acad. Polit. & Soc. Sci; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. Comparative language behavior; body build and temperament; nervous and mental fatigue. Publ: New answers to the fatigue problem; Cross-cultural approach to the problem of stuttering, Child Develop; Qualitative and quantitative theory as applied to body build research, Quart. J. Fla. Acad. Sci. Address: Florida State Museum, Gainesville, Fla. 32601.

BULLEN, RIPLEY P(IERCE), b. Winthrop, Mass, Sept. 21, 02; m. 29; c. 2. ARCHAEOLOGY. M.E, Cornell, 25; Harvard, 40-45; New Mexico, 41. Sales engr, Gen. Elec. Co, N.Y. & Mass, 25-40; mem. staff, Robert S. Peabody Found. Archaeol, Mass, 40-48; asst. archaeologist, State Park Serv, Fla, 48-52; CURATOR SOC. SCI, FLA. STATE MUS, 52- Permanent chmn, Internation's Cong. Study Pre-Colombian Cultures of Lesser Antilles. Fel. Anthrop. Asn; Soc. Archaeol. Anthropology; archaeological research in New Mexico, Massachusetts, Florida and the Caribbean, particularly the early periods. Publ: Excavations in northeastern Massachusetts, Papers Robert S. Peabody Found. Archaeol; Eleven archaeological sites in Hillborough County, Florida, Fla. Geol. Surv; The archaeology of Grenada, West Indies' contributions of the Florida State Museum, Soc. Sci. Address: Florida State Museum, Gainesville, Fla. 32601.

BULLER, DR. F(RANCIS) P, b. Bradshaw, Nebr, Dec. 24, 91; m. 18; c. 2. PSYCHOLOGY. A.B, McPherson Col, 19; A.M, Yale, 23, Ph.D, 27. Prof. psychol, Cent. YMCA Col, 27-28; prof. psychol. & philos. & head dept, Jamestown Col, 28-44, dean, 34-36; prof. psychol, head dept, dir. testing & counseling & clin. psychologist, Evansville Col, 44-57; CONSULT. PSYCHOLOGIST, GEN. FOODS CORP, 57- Private practice, 57-; chief clin. psychologist, Evansville Child Guid. Center, 60-; dir. child guid. & ment. hyg, pub. schs, N.Dak; Jamestown Juvenile Court. Consult. & clin. psychologist, State Hosp. Insane, 30-34, 42, 44. Psychol. Asn. Fundamental needs of the American college; psychology of wholesome human relationships; psychology of personality adjustment and counseling. Address: 705 S. Runnymeade Ave, Evansville, Ind. 47714.

BULLOCK, PROF. H(ENRY) A(LLEN), b. Tarboro, N.C, May 2, 06; m. 38; c. 3. SOCIOLOGY. A.B, Va. Union, 28; M.A, Michigan, 29, Earhart scholar, 34-35, Ph.D.(sociol), 42. Prof. soc. sci, Agr. & Tech. Col. N.C, 29-30; sociol, Prairie View Agr. & Mech. Col, 30-49; prof. sociol. & chmn. div. soc. sci, Dillard, 49-50; PROF. SOCIOL. & ECON, TEXAS SOUTHERN, 50-, CHMN. GRAD. RES, 62- Int. Soc. Criminol. Prediction of criminal behavior; impact of culture on personality development. Publ: Consumer motivations in black and white, Harvard Bus. Rev; Urban homicide in theory and fact, J. Criminal Law, Criminol. & Police Sci; Pathways to the Houston Negro market. Address: Dept. of Sociology & Economics, Texas Southern University, Houston, Tex. 77004.

BULLOCK, PROF. ROBERT P(ERCIVAL), b. Greeley, Colo, Oct. 12, 08; m. 34; c. 1. SOCIOLOGY. A.B, Colo. State Col. Ed, 31, M.A, 32; Ph.D. (sociol), Ohio State, 51. Boy's adv. & dir. guid, Greeley Pub. Schs, Colo, 37-42; asst. prin, Pub. High Sch, 46-47; instr. sociol, OHIO STATE, 47-51, asst. prof, 51-55, assoc. prof. RES. METHODS, 55-60, PROF. & CHMN. CMT. GRAD. WORK, 60-, proj. dir, res. found, 53-54, proj. coordinator, sch-community develop. study group, 55. U.S.A, 42-45. Sociol. Asn; Statist. Asn. Research method; industrial sociology; community organization. Publ: Social factors related to job satisfaction; What do nurses think of their profession; Community analysis scales for school administrators. Address: Dept. of Sociology, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

BULLOCK, DR. ROY J(OHNSON), b. Crete, Nebr, Oct. 05, 03; m. 27; c. 3. ECONOMICS. A.B, Doane Col, 25, hon. LL.D, 61; M.B.A, Harvard, 27; Ph.D, Hopkins, 33. Assoc. prof. bus. admin, Oregon, 27-28; from instr. to dir, sch. bus, Hopkins, 28-42; chief, export-import sect, U.S. Off. Mil. Govt, Germany, 45-46; chmn, Brit-Am. Joint Export-Import Agency, 46-47; agent, joint cmt. for. econ. coop, U.S. CONG, 48-51, SR. STAFF CONSULT, CMT. FOR. AFFAIRS, HOUSE OF REP, 51- Adv, U.S. del. to gen. assembly, UN, 57. With Off. Price Admin; Bd. Econ. Warfare; U.S. Dept. State & For. Econ. Admin, 42-45. Econ. Asn. Economics; foreign affairs. Publ: History of the Great Atlantic and Pacific Tea Company. Address: 8 N. Oakland St, Arlington, Va. 22203.

BULLOCKUS, DR. THEODORE, b. New York, N.Y, May 29, 17; m. 48; c. 3. ECONOMICS, OPERATIONS ANALYSIS. B.A, George Washington, 48, M.A, 49; Ph.D.(appl. econ), American Univ, 54. Mem. staff, opers. eval. group, Mass. Inst. Tech, 56-57; sr. scientist, Lockheed Aircraft Corp, 57-58; group head, System Develop. Corp, 58-59; sr. assoc, Planning Res. Corp, 59-60; pres, Site Location Assocs, Inc, 60-63; sr. exec. adv, Douglas Aircraft Div, McDonnell-Douglas Corp, 63-67; SR. ANALYST, PAC. TECH. ANALYSTS, 67- Consult, 60- Econ. Asn; Opers. Res. Soc. Applied economics; cost analysis; cost effectiveness; present value; discounting; transportation economics. Address: 208 Adelaide Dr, Santa Monica, Calif. 90402.

BULLOUGH, DR. VERN L(EROY), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BULS, PROF. E(RWIN) J(ULIUS), b. Gresham, Nebr, July 5, 08; m. 28; c. 3. GEOGRAPHY. A.B, Valparaiso, 37; M.S, Chicago, 44. Instr. geog, VALPARAISO, 44-47, asst. prof, 47-49, from assoc. prof. geog. to ASSOC. PROF. GEOG. & GEOL, 49- Asn. Am. Geog; Nat. Coun. Geog. Ed. Regional geography of Anglo-America; American resources. Address: Dept. of Geography & Geology, Valparaiso University, Valparaiso, Ind. 46383.

BUNCH, HOWARD McRAVEN, b. Texarkana, Tex, Aug. 20, 26; m. 53; c. 4. TRANSPORTATION ECONOMICS, MARKETING. B.B.A, Texas, 49, M.B.A, 58. V.pres, Bunch-Riesen Co, 49-56; secy-treas, United Butane Co, 56-57; sr. proj. leader, SOUTHWEST RES. INST, 57-61, from group leader opers. anal. to MGR. INDUST. ECON, 61- U.S.A, 44-46. Econ. Asn; Opers. Res. Soc. Am; Sci. Res. Soc. Am; Mkt. Asn. Economics of fuel utilization; maritime transportation; ordnance performance prediction techniques. Publ: Ordnance Corps envanal system, Can. Aeronaut. J; Economics of converting railroad diesels to operate on propane; Guidance for environmental research by the envanal technique. Address: Applied Economics Dept, Southwest Research Institute, 3600 Yoakum Blvd, Houston, Tex. 77006.

BUNCH, PROF. MARION E(STEL), b. Rochester, Ky, Dec. 5, 02; m. 26; c. 1. PSYCHOLOGY. A.B, Kentucky, 25; A.M, Washington (St. Louis), 26; Ph.D. (psychol), Chicago, 34. Instr. PSYCHOL, Washington (St. Louis), 26-28, asst. prof, 28-38, assoc. prof, 38-46, prof, 46-48; Illinois, 48-49; PROF. & CHMN. DEPT, WASHINGTON (ST. LOUIS), 49- Mem. spec. med. adv. group, Vet. Admin, 60-63; Nat. Res. Coun, 60-63. Consult, Nat. Sci. Found, 63-67; Nat. Inst. Gen. Med. Sci, 64-69. AAAS; fel. Psychol. Asn. Psychology of learning; motivation; aging. Publ: Co-ed, Graduate education in aging within the social sciences, Univ. Michigan, 67; Retroactive inhibition or facilitation from interpolated learning as a function of time, J. Comp. Psychol; Experimental extinction in learning and memory, J. Gen. Psychol. Address: Dept. of Psychology, Washington University, St. Louis, Mo. 63130.

BUNCHE, DR. RALPH J(OHNSON), b. Detroit, Mich, Aug. 7, 04; m. 30; c. 3. POLITICAL SCIENCE. A.B, California, Los Angeles, 27; M.A, Harvard, 28, Ph.D.(govt), 34. Prof, dept. polit. sci, Howard, 28-50; prin. dir. dept. trusteeship & info. from non-self-governing territories, UN, 47-54, UNDER-SECY, 55- Sr. soc. analyst, Off. Coordinator Info, 41-42; from prin. res. analyst to chief, Africa sect, res. & anal. br, Off. Strategic Serv, 42-44; area specialist, U.S. Dept. State, 44-46. U.S. del, Dumbarton Oaks Conf, 44; Conf. Int. Orgns, UN, 45, Exec. & Prep. Cmns, 45, First Gen. Assembly, 46. Spingarn medal, 49; Nobel Peace prize, 50; Four Freedoms award, 51; Presidential Medal for Freedom, 63. Polit. Sci. Asn.(pres, 53-54). Publ: Collab, An American dilemma. Address: 115-24 Grosvenor Rd, Kew Gardens, N.Y. 11418.

BUND, DR. HENRY, Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

BUNDGAARD, DR. LESLIE ROY, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BUNDY, McGEORGE, b. U.S. Mar. 30, 19; m. 50; c. 4. GOVERNMENT. B.A, Yale Col, 40; Soc. Fels. fel, Harvard, 41, 46-48, hon. M.A, 51; hon. LL.D, Harvard, Brown, Oberlin Col, Notre Dame, Brandeis, Boston & Hofstra Col; hon. L.H.D, Yale. Vis. lectr. govt, Harvard, 49-51, assoc. prof, 51-54, prof, 54-61, dean faculty arts & scis, 53-61; spec. asst. to President for nat. security affairs, 61-66; PRES, FORD FOUND, 66- U.S.A, 42-46. Polit. Sci. Asn; Soc. Int. Law. American foreign affairs. Publ: Co-auth, On active service in peace and war; ed, Pattern of responsibility. Address: 1040 Fifth Ave, New York, N.Y. 10028.

BUNIN, DR. SANFORD M(ELVIN), b. Cleveland, Ohio, Oct. 10, 23; m. 55; c. 1. PSYCHOLOGY, BUSINESS ADMINISTRATION. B.Sc, Western Reserve, 49; M.A, Kent State, 51; Ph.D, Texas, 60. Instr. personnel, Texas, 54-57; acting asst. prof. human rel, Washington (Seattle), 57-60, asst. prof. human rel. & personnel, 60-62; CONSULT. PSYCHOLOGIST, indust-med. oper, GEN. ELEC. CO, 62-64, HANFORD ENVIRON. HEALTH FOUND, 64- Partner, Tex. Psychol. Serv, 55-57. U.S.A.A.F, 43-45, Sgt. Psychol. Asn; N.Y. Acad. Sci. Personality factors or characteristics; attitudes and person perception, especially to the business or industrial organization. Publ: Campus recruiter, Adv. Mgt; co-auth, Use and technique of sociodrama and movies in the classroom, Tex. J. Sec. Ed. & Study of some attitudes toward work, Univ. Wash. Bus. Rev. Address: Hanford Environmental Health Foundation, Kadlec Medical-Dental Bldg, Richland, Wash. 99352.

BUNKE, PROF. HARVEY C(HARLES), b. Oshkosh, Wis, Nov. 7, 22; m. 47; c. 3. ECONOMICS. Ph.D.(econ), Illinois, 51. Economist, Off. Price Stabilization, 51-52; assoc. prof, Tennessee, 52-53; prof. econ, Iowa, 53-54, chmn. dept, 63-64; pres. West. Wash. State Col, 64-67; PROF. BUS. ECON, INDIANA, 67- U.S.A.A.F, 41-44. Econ. Asn. Publ: Linear programming: a primer; The liberal dilemma. Address: 3526 Park Lane, Bloomington, Ind. 47401.

BUNKER, DR. DOUGLAS RICH, b. Salt Lake City, Utah, July 10, 29; m. 51; c. 4. PSYCHOLOGY. B.A, Brigham Young, 53, M.A, 54; univ. fels, Harvard, 56-59, U.S. Pub. Health Serv. fel, 59-60, Ph.D, 61. Res. officer appl. exp. psychol, Air Force Personnel & Training Res. Center, 54-56; psychologist-training consult, soc. psychol, Nat. Training Labs, 60-62; asst. prof.

bus. admin, grad. sch, Harvard, 62-67; ASSOC. PROF. ORGN. & SOC. SCI, STATE UNIV. N.Y. BUFFALO, 67- Vis. prof, inst. adv. soc. studies, Univ. Navarra, Spain. Bd. mem, Inst. Appl. Behav. Sci, 67. Psychol. Asn; Soc. Appl. Anthrop; Soc. Psychol. Study Social Issues. Relations between motivation and the cognitive dimensions used in the perception of persons; observed behavior changes following participation in social process sensitivity training; interpersonal needs and perceptions of membership. Publ: Individual outcomes of laboratory education, J. Appl. Behav. Sci, 65; Human inputs, In: J.Seiler systems analysis in organization behavior, Irwin, 67; Outcomes of training laboratories of different lengths, J. Appl. Behav. Sci, 67. Address: 10066 Highview Court, Clarence, N.Y. 14031.

BUNKER, DR. GARY L(AMOND), b. Las Vegas, Nev, Apr. 21, 34; m. 57; c. 5. PSYCHOLOGY. B.A, Brigham Young, 60, M.A, 61; Ph.D.(psychol), California, Berkeley, 66. ASST. PROF. PSYCHOL, CALIF. STATE COL. LOS ANGELES, 65- U.S.A.R, 57-58. Psychol. Asn. Small group behavior; attitude change. Address: Dept. of Psychology, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

BUNKERS, E(LMER) W(ILLIAM), b. Flandreau, S.Dak, July 14, 23; m. 52. AGRICULTURAL ECONOMICS. B.A, St. John's (Minn), 48; M.S, Minnesota, 49; Chicago, 51-52. Economist, res. dept, Fed. Reserve Bank Chicago, 50-52; asst. statist. econ, Minnesota, 54-55; commodity & bus. economist, Longstreet-Abbott & Co, 56-64; MGR. ENVIRON. ANAL. DEPT, ANHEUSER-BUSCH, INC, 65- Lectr, Washington (St. Louis), 64-65. U.S.M.C, 42-46. Econ. Asn; Agr. Econ. Asn; Nat. Asn. Bus. Econ; Statist. Asn. Corporate strategical planning; economic methodology; commodity marketing; quantitative theory; consumption economics. Publ: Commodity price counseling reports, Longstreet-Abbott Co. Mkt. Guide; co-auth, On the income elasticity of food services, Rev. Econ. & Statist, 5/57. Address: 7206 Maryland, St. Louis, Mo. 63130.

BUNN, DR. RONALD F, b. Jonesboro, Ark, Aug. 11, 29; m. 55; c. 3. POLITICAL SCIENCE. B.A, Southwestern at Memphis, 51; M.A, Duke, 53, Ph.D. (polit. sci), 56; Fulbright scholar, Cologne, 54-55. Instr. govt, Texas, 56-59, asst. prof, 59-64; ASSOC. PROF, La. State, 64-67, POLIT. SCI, HOUSTON, 67- Vis. lectr, Indiana, fall 62; Fulbright sr. res. grant, 63; col.-bus. exchange fel, Found. Econ. Ed, summer 57. Nat. Guard, 48-49. Polit. Sci. Asn. West German political system, particularly political interests, public opinion and labor relations; comparative politics; European political systems. Publ: Co-ed. & contrib, Politics and civil liberties in Europe, Van Nostrand, 67; auth, German politics and the Spiegel Affair, La. State (in press); Codetermination and the Federation of German Employers' Associations, Midwest J. Polit. Sci, 58. Address: Dept. of Political Science, University of Houston, Houston, Tex. 77004.

BUNNELL, PROF. BRADFORD N(OBLE), Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BUNT, DR. MIRIAM ELIZABETH, b. Coldwater, Ont, July 11, 18; m. 38; c. 2. PSYCHOLOGY. B.Sc, Wayne State, 57, M.Ed, 59, Ph.D.(psychol), 62. Instr. ed. psychol, Wayne State, 60-62; ASSOC. PROF. child psychol. & chmn. dept. psychol, Mercy Col.(Mich), 62-64, develop. & ed. psychol, 64-67; PSYCHOL, WINDSOR, 67- Merrill Palmer Inst. fel. psychother, 65-68. Psychol. Asn; Asn. Marriage Counsr. Ego identity in adolescence; bilingualism in children; effective diagnosis and treatment of emotionally disturbed children. Publ: Some aspects of ego identity, Psychology, 68. Address: Dept. of Psychology, University of Windsor, Windsor, Ont, Can.

BUNTING, PRES. J(AMES) WHITNEY, b. Philadelphia, Pa, Nov. 23, 13. ECONOMICS. B.S, Pennsylvania, 34, A.M, 36, M.B.A, 37, Ph.D, 46. Asst. prof. bus. admin, Hanover Col, 39-42; res. economist, War Prod. Bd, D.C, 42; Yates prof. appl. econ, Hobart Col, 45-49, assoc. dean, 46-48; dean, Jr. Col. Commerce, Conn, 49-50; prof. econ, finance & statist. & chmn. div, Atlanta Div, Georgia, 50-51, prof. econ. & dir. bur. bus. res, Athens Div, 51-52; pres, Oglethorpe, 52-55; consult. ed. res, Gen. Elec. Co, 55-57; prof. finance, N.Y. Univ, 57-62, bus. ethics, grad. sch. bus, 61-62; dean col. bus. admin, Georgia, 62-68; PRES, GA. COL. MILLEDGEVILLE, 68- U.S.N.R, 42-45, Lt. Econ. Asn; Geog. Soc; Mkt. Asn; Acad. Polit. & Soc. Sci. Industrial relations; distance principle in railroad ratemaking. Publ: Ethics of modern business practice; Essentials of retail selling. Address: Georgia College at Milledgeville, Milledgeville, Ga. 31061.

BUNTING, PROF. ROBERT LOGAN, b. Salem, Va, Nov. 12, 20. ECONOMICS. M.A, Chicago, 48, Ph.D.(econ), 58. Asst. prof. ECON, North Carolina, 49-51, 53-59; assoc. prof, N.C. State Col, 59-61; from assoc. prof. to PROF, CORNELL COL, 61- Volker Found. grant, 60-61; Nat. Sci. Found. res. grants, 64-67 & sci. faculty fel, 67-68. U.S.A.F, 42-45, 51-53, Maj. Econ. Asn. Empirical investigation of the effects of labor market concentration upon wage rates. Publ: Employer concentration in local labor markets, Univ. North Carolina, 62; A test of the theory of geographic mobility, Indust. & Labor Rels. Rev, 10/61; A note on large firms and labor market concentration, J. Polit. Econ, 8/66. Address: Dept. of Economics, Cornell College, Mt. Vernon, Iowa 52314.

BUNZEL, PROF. JOHN HARVEY, b. New York, N.Y, Apr. 15, 24; div; c. 2. POLITICAL SCIENCE. A.B, Princeton, 48; M.A, Columbia, 49; Ph.D, California, 54. Instr. commun, San Francisco State Col, 53-56; POLIT. SCI, Mich. State, 56-57; asst. prof, Stanford, 57-63; assoc. prof, SAN FRANCISCO STATE COL, 63-67, PROF. & CHMN. DEPT, 67- Dir, Mich. Citizenship Clearing House, 56-57; North. Calif. Citizenship Clearing House, 58-61. U.S.A, 43-46, Sgt. Polit. Sci. Asn. American politics and institutions, especially problems of ideology, group politics and political power. Publ: The American small businessman, 62 & Anti-politics in America, 67, Knopf; Issues of American public policy, Prentice-Hall, 64. Address: Dept. of Political Science, San Francisco State College, San Francisco, Calif. 94132.

BUNZEL, DR. JOSEPH H(ANS), b. Graz, Austria, Sept. 20, 07; nat; m. 38. SOCIOLOGY, PSYCHOLOGY. J.D, Vienna, 32; dipl, Commercial Col, Vienna, 33. Secy. ins. pool cent. Europe & asst. chief reins. dept, Vienna, 35-38; coordinator self-study cols, West. N.C, 41-42; sr. sanit. inspector, Baltimore Health Dept, Md, 42-43; res. admin. asst, Pittsburgh Housing Asn, Pa, 43-46; assoc. prof. sociol. & res, Fisk, 47; lectr. polit. sci, Washington & Jefferson Col, 48; admin. asst, Nat. Asn. Housing Off, 49; res. consult, admin. study, Jewish Bd. Guardians, 51; res. dir. community studies, Mayor's Cmt. Aged, New York, 51-53; res. consult, 53-55; proj. dir, N.Y. Sch. Soc. Work, Columbia, 55-56; assoc. prof. soc. res, Richmond Prfnl. Inst, Col. William & Mary, 56-61; prof. soc. sci, Va. Union, 61-64; assoc. prof. SOCIOL, North Dakota, 64-65; St. John's (Minn), 65-67; PROF, STATE UNIV. N.Y. COL. BUFFALO, 67- Lectr, Chicago, 49; City Col. New York, 52; res. asst, Fergus Falls Hosp, Minn, 65. Mem. subcmt. ed, Gov. Citizens Cmt. Aging. Sociol. Asn. Social theory; research methodology; community studies; social policy and psychiatry; art and society. Publ: Concept, structure and treatment of minorities; Catching of the conscience: social psychiatry through a TV program series; Immortality through art, In: Souvenir volume for Sir Radakrischnan, Moradabad, India, 65. Address: 1217 Delaware Ave, Apt. 701, Buffalo, N.Y. 14209.

BUNZEL, DR. RUTH L(EAH), Anthrop, see 10th ed, Soc. & Behav. Vols.

BURACK, PROF. BENJAMIN, b. Chicago, Ill, Apr. 28, 14. PSYCHOLOGY. B.S, Ill. Inst. Tech, 36; A.M, Northwestern, 38, fel, 38-40, Ph.D.(psychol), 40. Instr. PSYCHOL, Chicago City Jr. Cols, 39-41; asst. prof, ROOSEVELT, 46-47, assoc. prof, 47-56, PROF, 56- U.S.A, 41-46, Capt. Fel. AAAS; fel. Psychol. Asn. Instructional techniques; creativity. Publ: Nature and efficacy of methods of attack on reasoning problems, Psychol. Monogr; Critical analysis of the theory, method, and limitations of the lie detector, J. Criminal Law; Impact of military service upon utilizable vocational skills, Psychol. Reports. Address: Dept. of Psychology, Roosevelt University, Chicago, Ill. 60605.

BURACK, DR. ELMER H, b. Chicago, Ill, Oct. 21, 27; m. 53; c. 3. INDUSTRIAL MANAGEMENT. B.S, Illinois, 50; M.S, Ill. Inst. Tech, 55; Ph.D. (tech, supv), Northwestern, 64. Engr, Chicago Molded Prod. Corp, 50-53; prod. supt, Richardson Co, 53-54; prod. control mgr, Fed. Tool Corp, 55-59; consult. gen. mgt, Booz, Allen & Hamilton, Inc, 59-60; lectr. INDUST. MGT, ILL. INST. TECH, 60-64, ASSOC. PROF, 64-, CONSULT, RES. INST, 67- Fel, Mass. Inst. Tech, 64; proj. adminstr, U.S. Dept. Labor res. grant, 66-68. Summer lectr, grad. sch. bus, Northwestern, 65-67. U.S.A.A.F, 46-47. Acad. Mgt; Inst. Mgt. Sci. Impact of changes in manufacturing and information technology on supervisors, managers and support groups; manpower implications. Publ: Co-auth, Technological change and manpower developments in advanced production systems, Acad. Mgt. J, 9/67; auth, Technology and supervisory practices: a preliminary view, Human Orgn, winter 67; Industrial management in advanced production systems, Admin. Sci. Quart, 12/67. Address: Dept. of Business & Economics, Illinois Institute of Technology, 31st & Dearborn, Chicago, Ill. 60616.

BURACK, DR. MARVIN, b. Chicago, Ill, Jan. 30, 20; m. 43; c. 2. COUNSELING, PSYCHOLOGY. B.E, Chicago Teachers Col, 42; A.M, Chicago, 46, Ph.D.(ed), 51. Instr. ed, Ill. Inst. Tech, 50-53; psychologist, bur. child study, Chicago Bd. Ed, 53-56, supvr. guid, bur. pupil personnel serv, 56-64; ASST. PROF. PSYCHOL, CHICAGO STATE COL, 64- U.S.A.A.F, 42-45. Fel. AAAS; Psychol. Asn. Psychotherapy; personality assessment; educational psychology. Address: Dept. of Psychology, Chicago State College, 6800 S. Stewart Ave, Chicago, Ill. 60621.

BURCH, DANIEL WINDSOR, b. White Bluffs, Wash, Oct. 16, 14; m. 47; c. 1. ECONOMICS. B.A, Washington (Seattle), 47; M.A, California, 48. Agr. economist, U.S. Dept. Agr, 49-50, statistician, 57-61; fiscal economist, U.S. Bur. Budget, 50-54; U.S. Post Off. Dept, 54-57; statistician, U.S. INTERNAL REVENUE SERV, 61-62, SUPVRY. STATISTICIAN, 62- U.S.A.A.F, 41-45. Econ. Asn; Statist. Asn. Fiscal and economic theory; national income and output; current economic analysis; projections of economic variables; fiscal and tax policy; statistical surveys. Publ: Fluctuating farm income and the tax system, J. Farm Econ; Analyzing farm incomes for income tax purposes, Agr. Econ. Res. Address: 5119 N. 25th Rd, Arlington, Va. 22207.

BURCH, DR. ERNEST SUHR, JR, b. New Haven, Conn, Apr. 17, 38; m. 63; c. 1. ANTHROPOLOGY. B.A, Princeton, 60; M.A, Chicago, 63, Ph.D.(anthrop), 66. Res. asst. ANTHROP, Alaska, 60-61; ASST. PROF, MANITOBA, 66- AAAS; Anthrop. Asn; Soc. Am. Archaeol. Sociological theory; ethnographic research techniques; structure of nonmodernized societies; social evolution; Arctic area. Address: Dept. of Anthropology, University of Manitoba, Winnipeg 19, Man, Can.

BURCH, DR. THOMAS K(IRBY), b. Baltimore, Md, Dec. 15, 34; m. 59; c. 3. SOCIOLOGY. A.B, Loyola Col.(Md), 56; M.A, Fordham, 59; M.A, Princeton, 59, Pop. Coun. fel, 59-60, Ph.D.(sociol), 62. Instr. SOCIOL, Marquette, 60-62, asst. prof, 62-63; Georgetown, 63-66, ASSOC. PROF, 66-, DIR. DEMOG. DIV, CENTER POP. RES, 63- Vis. asst. prof, California, Berkeley, 65-66. Mem, Papal Cmn. Pop. & Birth Control, 64-66; adv. panel pop. & food developing nations, policy planning coun, U.S. Dept. State, 66- Sociol. Asn; Pop. Asn; Statist. Asn; Int. Union Sci. Study Pop. Statistical study of comparative family structure; sociology of human fertility; biostatistics of menstruation. Publ: Co-auth, Some methodologic problems in the analysis of menstrual data & Long cycles, late ovulation and calendar rhythm, Int. J. Fertil, 1-3/67; auth, The size and structure of families, Am. Sociol. Rev, 6/67. Address: Center for Population Research, Georgetown University, Washington, D.C. 20007.

BURCH, DR. WILLIAM R(ICHARD), JR, b. Portland, Ore, Mar. 27, 33; m. 50; c. 3. SOCIOLOGY. B.S, Oregon, 55, M.S, 57; Missouri, 57-59; Ph.D.(sociol), Minnesota, 64. Instr. speech, Missouri, 57-59; sociol, Minnesota, 59-62; soc. sci. analyst, Pac. Northwest Forest & Range Exp. Sta, U.S. Forest Serv. 62-64; lectr. SOCIOL, Victoria, N.Z, 64-67; PRFNL. RES. ASSOC, STATE UNIV. N.Y. COL. FORESTRY, SYRACUSE, 67- Mem, Int. Cmt. Sociol. of Sport, 65- AAAS; Sociol. Asn; Rural Sociol. Soc; Sociol. Asn. Australia & N.Z. Sociology of leisure and outdoor recreation; sociology of town planning and urban life; interrelations between man, nature and society; social psychology. Publ: The play world of camping: research into the social meaning of outdoor recreation, Am. J. Sociol, 3/65; Wilderness—the

life cycle and forest recreational choice, J. Forestry, 9/66; Camping: expressions of solitude and sociability in American life, In: Motivations in sports, play and games, C.C. Thomas, 67. Address: 2500 E. Fayette St, Syracuse, N.Y. 13224.

BURCHAM, LT. COL. LEE AUBREY, U.S.A.F, b. Decatur, Ill, May 13, 25; m. 45; c. 1. GEOGRAPHY. B.S, Illinois, 47, M.S, 48. Asst. instr. phys. & commercial geog, Illinois, 47-48; U.S. AIR FORCE, 48-, chief flight info. route chart prod, Europe, 48-49, mil. targets sect, Hqs. Strategic Air Command, 51-57, instr. geog, U.S. Air Force Acad, 58-59, asst. prof, 59-62, assoc. prof, 62; chief target intel, Hq. Fifth Air Force, Japan, 62-65; combat intel. officer, Hqs. U.S. Air Force, D.C, 65-67; VIS. RES. ASSOC, GRAD. SCH. INT. STUDIES, DENVER, 67- U.S.A.A.F, 43-45, 2nd Lt. AAAS; Asn. Am. Geog; Am. Geog. Soc. Historical migrations or major changes in cultural patterns of man; socio-cultural changes in Thailand induced by economic development plans and options elected in resource utilization. Address: Graduate School of International Studies, University of Denver, Denver, Colo. 80210.

BURCHARD, PROF. EDWARD M(ARSHALL) L(ORAIN), b. Rouseville, Pa, Dec. 24, 08; m. 40. CLINICAL PSYCHOLOGY. A.B, Pittsburgh, 31, A.M, 32, Ph.D.(clin. psychol), 35; Wash. Sch. Psychiat, 45-46; cert, Wm. A. White Inst. Psychiat, 55. Intern psychol, West. Pa. Penitentiary, 30-31; asst. instr. psychol, Pittsburgh, 31-33; asst. clin. psychologist, Torrance State Hosp, 33-35, psychologist, 35-37; instr. psychol, asst. dir. psychol. clin. & consult. psychologist, Oak Lane Country Day Sch, Temple, 37-41; chief psychologist, Vet. Admin. Ment. Hyg. Clin, Boston, Mass, 46-47; asst. prof. PSYCHOL, QUEENS COL.(N.Y), 47-53, assoc. prof, 53-61, PROF, 61- Dir. curriculum, fel, training & suprvy. analyst, W.A. White Inst. Psychiat, 62-, Nat. Inst. Ment. Health prog. dir. clin. psychol, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 41-46, Cmdr. Fel. Psychol. Asn; fel. Soc. Proj. Tech.(secy, 47-49, pres, 51). Psychoanalysis; psychodynamics. Address: 1225 Park Ave, New York, N.Y. 10028.

BURCHARD, DR. JOHN DAVID, b. Cleveland, Ohio, May 25, 36; m. 57; c. 4. PSYCHOLOGY. B.S, Denison, 58; Ph.D.(psychol), Nebraska, 63. Res. psychologist, Ft. Worden Treatment Center, 63-64; ASST. PROF. PSYCHOL, NORTH CAROLINA, 65- Psychol. Asn; Asn. Ment. Deficiency. Human operant conditioning; experimental analysis of behavior disorders; development and evaluation of behavior modification techniques. Publ: Co-auth, The modification of delinquent behavior through operant conditioning, Behavior Res. & Ther, 1/65; auth, Systematic socialization, Psychol. Record, 10/67. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27514.

BURCHARD, DR. MAX N(ORMAN), b. Seward Co, Kans, May 27, 25; m. 48; c. 7. SOCIOLOGY. A.B, San Jose State Col, 49; M.A, Nebraska, 51, Ph.D. (sociol), 55. Instr. & dir. soc. work training, Omaha, 52-54; instr. sociol, Chico State Col, 54-55; asst. prof. sociol. & acting head dept, Marietta Col, 55-60; assoc. prof. sociol, North Dakota, 60-64, chmn. dept. SOCIOL. & ANTHROP, 62-64; ASSOC. PROF. & CHMN. DEPT, MOORHEAD STATE COL, 64- Summer fel. econ, Case, 60. U.S.N.R, 43-46; U.S.A.F.R, 49-54, 2nd Lt. AAAS; fel. Sociol. Asn; Soc. Study Social Probs. Social problems; propaganda; sociology of religion, childhood and youth. Publ: Sociology, Sernoll, 67. Address: Dept. of Sociology & Anthropology, Moorhead State College, Moorhead, Minn. 56560.

BURCHARD, PROF. WALDO W(ADSWORTH), b. Satanta, Kans, Nov. 28, 16; m. 45; c. 4. SOCIOLOGY. A.B, California, 49, M.A, 51, Ph.D, 53. Instr. sociol, Denver, 52-53; Kansas, 53-55; asst. prof, Hollins Col, 55-58; from assoc. prof. to PROF. SOCIOL. & ANTHROP. & HEAD DEPT, NORTHERN ILLINOIS, 58- U.S.M.C, 42-46. Fel. Sociol. Asn; Soc. Sci. Study Relig. Social psychology and theory; sociology of religion; relationship between college education and religious beliefs and behavior. Publ: Erich Fromm and the cure of souls, Midwest Sociologist; A study of attitudes toward the use of concealed devices in social science research, Soc. Forces; The status of status, Sociol. & Soc. Res. Address: Dept. of Sociology & Anthropology, Northern Illinois University, De Kalb, Ill. 60115.

BURCHILL, DR. GEORGE W, b. Frackville, Pa, Dec. 23, 29. EDUCATIONAL PSYCHOLOGY. B.A, Ursinus Col, 51; M.Ed, Pa. State, 52, Ed.D, 59. Teacher, pub. schs, Calif, 54-57, counsr, 58-60; ASST. PROF. ED, Wisconsin, 60-62; REDLANDS, 62- U.S.N.R, 52-57, Res, 57-, Comdr. Psychol. Asn; Personnel & Guid. Asn. School-work programs for alienated youth; educational achievement of adult high school students. Address: School of Education, University of Redlands, Redlands, Calif. 92373.

BURCHINAL, DR. LEE G, b. Altoona, Pa, Oct. 23, 27; m. 50; c. 3. SOCIOLOGY. B.A, Otterbein Col, 51; M.A, Bowling Green State, 52; Ph.D, Ohio State, 56. Res. assoc. child develop, Iowa State, 55-57, asst. prof. sociol, 57-60, assoc. prof, 60-64; DIR. DIV. RES. TRAINING & DISSEMINATION, BUR. RES, U.S. OFF. ED, 64- U.S.A.F, 45-47, Sgt. Fel. Sociol. Asn; Rural Sociol. Soc. Marriage and family relationships; socialization of rural youth; young and inter-religious marriages; family adjustments associated with urban migration; correlates of employment of mothers. Publ: Maternal employment, family relations and selected personality, school-related and social development characteristics of children; Research on young marriages-implications for family life education; Career choices of rural youth in a changing society: a summary of research. Address: Division of Research Training & Dissemination, Bureau of Research, U.S. Office of Education, 400 Maryland Ave. S.W, Washington, D.C. 20202.

BURD, DR. GENE ARNOLD, b. Long Lane, Mo, May 21, 32. COMMUNICATIONS. B.A, California, Los Angeles, 53, Los Angeles Times fel, 53-54, M.S, 54; Iowa 54-55 & summer 57; Ph.D.(urban affairs, journalism), Northwestern, 64. Reporter, Kansas City, Mo, Star, 56; asst. ed. city news & urban probs, Three Rivers, Mich, Commercial, 57; reporter mil. & police, Albuquerque, N.Mex, Journal, 57-58; ed. suburban sect, Houston, Tex, Chronicle, 58; instr. journalism, Columbia Col. (Ill), 61-62; ed, Des Plaines, Ill, Journal, 62-63 & Mt. Prospect News, 65; ASST. PROF. JOURNALISM & URBAN AFFAIRS, COL. JOURNALISM, MARQUETTE, 65- Asst, Northwestern, 59-64, res. assoc, center metrop. studies, 64-65; researcher-in-residence, Hull House, Chicago, 61-62; res. assoc. Center Study Am. Press, Wis, 65-; Mag. Publishers Asn. res. grant, 67-68. Pub. info. specialist, Chicago Dept. City Planning, 60; consult. & writer, Encyclop. Britannica, Chicago, 64. U.S.A, 55-56. Asn. Ed. in Journalism; Am. Inst. Urban & Regional Affairs. Urban affairs; the emerging forms and role of mass media and the nature of cities; critical analyses of press performance; imagery of cities; citizen participation in democracy. Publ: Media view the ghetto, New City, 1/68; Media in metropolis, Nat. Civic Rev, 3/68; Urban renewal in the city room, Quill, 5/68. Address: 1135 W. Kilbourn Ave, Milwaukee, Wis. 53233.

BURDELL, DR. EDWIN S(HARP), b. Columbus, Ohio, Feb. 2, 98; m. 27; c. 2. SOCIOLOGY. A.M, Ohio State, 29, Ph.D, 34, LL.D, 54; Litt.D, Pratt Inst, 60. Prof. sociol. & dir. summer session, Mass. Inst. Tech, 34-38, dean hummanities, 37-38; pres, COOPER UNION, 38-60, EMER. PRES, 60-; ED. CONSULT, 66- Consult. pres, Mid. East. Tech. Univ. & chief mission, UNESCO, Ankara, Turkey, 60-62; consult, Cranbrook Found, Mich, 62-63; dean, Rollins Col, 63-66. King Christian X Medal of Liberation, Denmark, 46; Knight Cross of Danneborg, 51; cert. of merit, Selective Serv. Trustee, Am-Scandinavian Found; adv. bd, U.S. Coast Guard Acad, 55-60. U.S.A, 18-19. Sociol. Asn; Soc. Eng. Ed; Am. Acad. Arts & Sci; Inst. Planners; Royal Soc. Arts. Integration of social sciences and humanities in professional education; development of professional competency in engineering and architectural education; sociological and economic studies of blighted areas. Address: 521 Dommerich Dr, Maitland, Fla. 32751.

BURDETTE, PROF. FRANKLIN L, b. Huntington, W.Va, Dec. 7, 11; m. 38; c. 2. POLITICAL SCIENCE. A.B, Marshall Col, 34, LL.D, 59; A.M, Nebraska, 35; North Carolina, 35-36; Chicago, 36; A.M, Princeton, 37, Ph.D, 38. Instr. polit, Princeton, 36-37, 38-39, res. assoc, local govt. surv, 39-40; asst. prof. hist. & polit. sci, Butler, 40-43, assoc. prof, 43-46; GOVT. & POLIT, MARYLAND, 46-47, PROF, 47-, DIR, BUR. GOVT. RES, 56-, head dept, 50-54. Lectr, American Univ, 48-49; head overseas book prog. & related cultural activities, U.S. Info. Agency, 54-56. Ed, Polit. Sci. Series, D. Van Nostrand Co, 48- Trustee, Westminster Choir Col, 52-62. Exec. secy, Nat. Found. Ed. in Am. Citizenship, 40-46, ed. pub, 46-50; mem. & secy. bd. trustees, Inst. Am. Univs, France, 58-; del, state constitutional convention, Md. 67-68. Polit. Sci. Asn.(ed, Biog. Directory, 45, 48, 61); Acad. Polit. & Soc. Sci; Soc. Int. Law; Soc. Pub. Admin. American government; political parties; legislation. Publ: Filibustering in the Senate; Election practices in Maryland; ed, Education for citizen responsibilities. Address: Bureau of Governmental Research, University of Maryland, College Park, Md. 20742.

BURDETTE, ROGER F(RANKLIN), b. Florence, Md, May 20, 09; m. 33; c. 2. AGRICULTURAL ECONOMICS, MARKETING. B.S, Maryland, 33, M.S, 34; Grad. Sch. U.S. Dept. Agr, 35-42; Harvard, 44-45. Mkt. economist agr, exp. sta, Maryland, 36-42; U.S. Dept. Agr, 42-44, 46-51; mkt. specialist, Food & Agr. Orgn, UN, 51-64; AGR. ECONOMIST, Robert R. Nathan Assocs. Mission to Costa Rica, San José, 64-66; UNIV. NEBRASKA MISSION TO COLOMBIA, NAT. UNIV. COLOMBIA, 67- Lectr, int. training centers, Peru, 53, 55, 57 & 59, Chile, 55, Columbia, 59-61; summers, lectr, Peace Corps volunteers to Belice, Univ, Maryland, 63, agr. economist & lectr, U.S. Agency Int. Develop. Mission to Colombia, 67. Consult, World Bank Study of Livestock Mkt. in Peru, 53; agr. consult, Res. Corp. Mission to Ecuador, S.Am, 63; mkt. consult, Latin Am. Mkt. Inst, Bogotá, 66. Mem, World Bank cmn. study Chilean agr. economy, Food & Agr. Orgn, UN, 51, World Bank cmn. study Peruvian agr, 58; agr. economist, World Bank Nelson Mission to Colombia, 63-64. Hon. mem. faculty, Univ. Chile, 56. U.S.N, 44-46, Lt. Agr. Econ. Asn; Statist. Asn; Chilean Agr. Econ. Asn; Peruvian Agr. Asn; Colombia Agr. Econ. Asn. Analyzation of marketing facilities and marketing systems of foreign countries; advising foreign governments of improvements; market surveys. Publ: Comercializacion agropecuaria en Chile, Agr. Mkt. Chile; Marketing of livestock and meat; Colombia, South Carolina wholesale fruit and vegetable market. Address: 4802 Guilford Rd, College Park, Md. 20740.

BURDICK, DR. DONALD S, Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BURDICK, PROF. EUGENE L, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased.

BURDICK, DR. HARRY ALDEN, Psychol, Sociol, see 10th ed, Soc. & Behav. Vols.

BURDICK, PROF. HARVEY, b. Brooklyn, N.Y, Feb. 18, 26; m; c. 3. PSYCHOLOGY. B.A, Syracuse, 49; M.A, Minnesota, 50, fel, 52-53, Ph.D, 55. Proj. dir, Psychol. Res. Assocs, 53-54; res. assoc. PSYCHOL, Conn. Col, 54-55; instr, Smith Col, 55-57, asst. prof, 57-62; assoc. prof, OAKLAND, 62-66, PROF, 66-, CHMN. DEPT, 64- U.S.A, 43-46. Psychol. Asn. Attitudes and social motives. Address: Dept. of Psychology, Oakland University, Rochester, Mich. 48063.

BURDICK, PROF. R(AYMOND) T(ERRY), b. Lima, N.Y, May 5, 89. ECONOMICS. B.S, Cornell, 12; M.S, Colo. Agr. Col, 22; Ph.D, Chicago, 46. Instr. & asst. prof. agron, Vermont, 12-28; assoc. agronomist, COLORADO STATE, 19-21, assoc. economist, 21-43, prof. econ. & head dept. econ, sociol. & hist, 43-54, EMER. PROF. ECON. & EMER. HEAD DEPT. ECON, SOCIOL. & HIST, 54- Res. & consult. agr. indust, 54- AAAS; Farm Econ. Asn; Econ. Asn. Farm management; investigation; economics of agriculture. Address: 646 Whedbee St, Ft. Collins, Colo. 80521.

BURDINE, DEAN J(OHN) ALTON, Govt, see 10th ed, Soc. & Behav. Vols, deceased 67.

BURDOCK, DR. E(UGENE), Psychol, see 11th ed, Phys. & Biol. Vols.

BURES, PROF. CHARLES E(DWIN), b. Cedar Rapids, Iowa, Mar. 7, 10; m. 48. PSYCHOLOGY. B.A, Grinnell Col, 33; Roberts fel, Columbia, 33-34; M.A,

Iowa, 36, Ph.D.(philos. of sci), 38. Prof. philos. & psychol, Col. Idaho, 38-42; personnel dir. mat. div, N.Am. Aviation, Inc, 43-45; lectr. PHILOS, Southern California, 47-48; instr, Oregon, 48-49; ASSOC. PROF, CALIF. INST. TECH, 49- Fel. AAAS; Psychol. Asn; Philos. Asn; Math. Soc; Asn. Symbolic Logic; Philos. Sci. Asn. Philosophy of science; communication theory; theories of human nature. Address: Humanities Division, California Institute of Technology, Pasadena, Calif. 91109.

BURFORD, PROF. ROGER L(EWIS), b. Independence, Miss, Jan. 19, 30; m. 48; c. 2. ECONOMICS, STATISTICS. B.B.A, Mississippi, 56, M.A, 57; Ford Found. fel, Indiana, 57-59, Ph.D, 61. Asst, bur. bus. res, Mississippi, 55-56, res. assoc, 56-57; lectr. econ. & statist, Indiana, 59-60; asst. prof. econ, col. & res. assoc. statist, bur. bus. & econ. res, Ga. State Col, 60-62, assoc. prof. econ, 62-63; BUS. STATIST, LA. STATE, 63-67, PROF, 67- Ford Found. fel, summer 62; Fulbright-Hays lectr, Taiwan, 67-68. U.S.A.F, 51-53. Econ. Asn; Statist. Asn; Economet. Soc. Regional economics, especially demographic characteristics and economic development; models of regional growth differentials. Publ: Introduction to finite probability, 67 & Statistics—a computer approach, 68, C.E. Merrill; The federal cotton acreage programs and farm labor force adjustment, South. Econ. J, 10/66. Address: Dept. of Business Finance & Statistics, College of Business Administration, Louisiana State University, Baton Rouge, La. 70803.

BURG, DR. ALBERT, b. Kingston, N.Y, Dec. 21, 28; m. 60. PSYCHOLOGY, HUMAN ENGINEERING. A.B, California, Los Angeles, 52, M.A, 57, Ph.D. (psychol), 64. RES. PSYCHOLOGIST, CALIFORNIA, LOS ANGELES, 52- Mem. road user characteristics & hwy. safety cmts, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 65-70, night visibility cmt, 66-70. Psychol. Asn; Soc. Eng. Psychol; Human Factors Soc. Driver behavior and characteristics; simulation of the driving task; dynamic visual acuity; vision requirements in driving; accident causation; highway signing. Publ: Visual acuity as measured by dynamic and static tests: a comparative evaluation, J. Appl. Psychol, 66; Light sensitivity as related to age and sex, Perceptual & Motor Skills, 67; The relationship between vision test scores and driving record: general findings, Univ. California, Los Angeles, Dept. of Engineering, 6/67. Address: Dept. of Engineering, University of California, Los Angeles, Calif. 90024.

BURGEMEISTER, DR. BESSIE BENSON, b. New York, N.Y, Feb. 24, 07. PSYCHOLOGY. A.B, Columbia, 27, A.M, 31, Ph.D.(psychol), 40. Extern, dept. psychol, Neurol. Inst, 42, psychologist, 42-46; res. psychologist, Columbia, 46-59, lectr, dept. med, 46-55; private practice, 59-63; supv. psychologist, SUFFOLK COUNTY MENT. HEALTH BD, 63-65, ASST. DIR. ADMIN, 65- Lectr, City Col. New York, 48. Psychologist, Suffolk Psychiat. Hosp, Central Islip, N.Y, 67- Consult, Lenox Hill Cerebral Palsy Clin, 47-49. Psychol. Asn; fel. Soc. Proj. Tech.(treas); N.Y. Acad. Med. Intelligence and personality; epilepsy; experimental drugs. Publ: Psychological techniques in neurological diagnosis; Columbia mental maturity scale. Address: 65 Smith St, Lake Ronkonkoma, N.Y. 11779.

BURGER, DR. GARY KARL, b. Chicago, Ill. Dec. 19, 38; m. 66; c. 1. PSYCHOLOGY. B.S, Loyola (Ill), 60, M.A, 64, Ph.D.(psychol), 66. Asst. PSYCHOL, Loyola (Ill), 60-61, lectr, 61-66; ASST. PROF, ST. LOUIS, 66- Res. asst, Loyola (Ill), 63-64, res. assoc, 64-66. Psychol. Asn. Psychological measurement; problem solving; small group processes. Address: Dept. of Psychology, St. Louis University, St. Louis, Mo. 63103.

BURGER, DR. HENRY G, b. New York, N.Y, June 27, 23. CULTURAL ANTHROPOLOGY. B.A, Columbia, 47, M.A, 65, State fel. & Ph.D.(appl. cultural anthrop), 67. Indust. engr, various mfg. corp, 47-51; field tester, Daycor & other Midwest. companies, 52-55; behav. sci. consult, 56-67; ANTHROPOLOGIST, SOUTHWEST. COOP. ED. LAB, 67- Lectr, City Univ. New York, 57-65; dir, Int. Anthrop. Coop, 67- Mem, Creative Ed. Found, 66- C.Eng, U.S.A, 43-46, Capt. Fel. AAAS; Ethnol. Soc; Soc. Hist. Tech; Soc. Int. Develop; Comp. Ed. Soc; fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; Soc. Gen. Systs. Res; fel. Ed. Res. Asn. Applied cultural anthropology; general systems theory; ethnic education; Hatfield's law; technology and culture; unicultural and intercultural trends; strategic design of innovations; industrial transculturation. Publ: Telesis: facilitating directed cultural change by strategically designing chain reactions, Univ. Microfilms, 67; Directed change of the culture core, Am. Anthropologist, 67: 489-494; Agonemmetry (adaptability through rivalry): an institution evolving biology and culture, Gen. Systs, 12: 209-225. Address: 917 Alcazar N.E, Albuquerque, N.Mex. 87110.

BURGESS, DR. CLIFFORD VERNON, b. Ft. Payne, Ala, June 14, 26; m. 47; c. 2. PSYCHOLOGY. A.B, Mercer, 54; M.A, George Peabody Col, 59; Ed.D, Auburn, 62. Teacher, pub. schs, Ala, 55-56; prin, 56-60; instr. psychol. learning & curriculum & supv. grad. studies, Jacksonville, 62-65; HEAD DEPT. ED. & PSYCHOL, BERRY COL, 65- U.S.A, 45-46. The psychology of learning, especially the motivation to learn and the components of that motivation. Address: Dept. of Psychology & Education, Berry College, Mt. Berry, Ga. 30149.

BURGESS, PROF. ERNEST W(ATSON), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 66.

BURGESS, PROF. FREDERICK M(ANLEY), b. Philadelphia, Pa, Nov. 7, 08; m. 41; c. 2. MARKETING. B.S, Haverford Col, 28; M.B.A, Indiana, 49; Pennsylvania, 49-52. Lectr. mkt, Pennsylvania, 49-51; pub. info. officer, Off. Price Stabilization, 51-53; ASSOC. PROF. BUS. ADMIN, ASSOC. DEAN UNIV. COL. & ASST. DIR. SUMMER SESSIONS, VILLANOVA, 53- Lectr, Drexel Inst. Tech, 52-56. Mkt. consult, Radio & TV Center, Ind, 49; Marketers' Res. Serv, Inc, 54-55. U.S.A, 40-46, Capt. Econ. Asn; Mkt. Asn. Industrial public relations; marketing research; government public information policy and programs. Publ: Operation of price control in a defense economy, Bul. Debating Asn. Pa. Cols; Outline of current trademark law, Bul. Bur. Bus. Res. Indiana. Address: 11 Marwood Dr, Broomall, Pa. 19008.

BURGESS, DR. GEORGE G(RAYDON), b. St. Louis, Mo, Oct. 25, 24; m. 51; c. 5. PSYCHOLOGY. B.S, Dubuque, 45; A.M, Washington (St. Louis), 48; Ph.D, Illinois, 57. Res. psychologist, psychol. res. & exam. unit, U.S. Air Force, 47-49, human resources res. center, 49-54, personnel lab, 54-59; sr. psychologist, HRB-Singer, Inc, 59-60; human factors specialist, Martin-Marietta Corp, 60-62; Int. Elec. Corp, Int. Tel. & Tel. Co, 62-64; tech. dir. personnel res. lab, U.S. Dept. Navy, 64-67; RES. PSYCHOLOGIST, PERSONNEL RES. DIV, OFF. DEP. CHIEF STAFF PERSONNEL, U.S. DEPT. ARMY, 67- U.S.N.R, 43-46, Ens. Psychol. Asn; Statist. Asn; Human Factors Soc. Psychological measurement; engineering psychology; mathematical and statistical models. Publ: Use of sequential analysis for determining test item difficulty level & co-auth, The relative effectiveness of four attitude assessment techniques in predicting a criterion, Ed. & Psychol. Measurement; auth, Student achievement as a measure of instructor effectiveness, J. Ed. Psychol. Address: 10209 Windsor View Dr, Potomac, Md. 20854.

BURGESS, DR. JOHN F(REDERICK), JR, b. Washington, D.C, Jan. 23, 32; m. 59; c. 2. MARKETING RESEARCH, HIGHER EDUCATION. B.S, Fla. State, 58, M.S, 60, Ed.D.(higher ed), 66. Res. asst. mkt. res, Fla. State, 58-59, instr. mkt, 60, grad. asst, dept. advert, commun. & pub. rels, 60-62; DIR. COMMUNITY SERV. PROG, COLUMBUS COL, 62-, assoc. prof. bus. econ. & chmn. div, 62-66. Asst. proj. dir, Fla. Develop. Cmn, Small Bus. Admin, 59-60. Consult, Fla. Develop. Cmn, 59-60; Ledger-Enquirer Newspapers, 65-66; Turner Advert. Corp, 66-; Columbus Area Health Planning Coun, 67-68. U.S.A, 54-56. Mkt. Asn. Administration of higher education; market research in tourism; trade area studies; area health needs surveys; trade area and shopping studies; adult education. Publ: Co-auth, Columbus-Muscogee health needs, Columbus Area Health Planning Coun, 68. Address: Columbus College, Columbus, Ga. 31907.

BURGESS, PROF. MARGARET ELAINE, b. Walla Walla, Wash, Nov. 9, 26. SOCIOLOGY, ANTHROPOLOGY. B.A, Washington State, 47, fel, 47-49, M.A, 49; Ph.D, North Carolina, 60. Exec. dir. YWCA student personnel, Univ. Hawaii, 50-52; dir. student activities, Connecticut, 52-56; asst. inst. res, North Carolina, 56-60, res. assoc, inst. res. in soc. sci. & asst. dir, Field Found. Res. Proj, Chapel Hill, 60-65, asst. prof. sociol. & anthrop, Greensboro, 60-63, assoc. prof, 63-66; SOCIOL, Kansas, 66-67, PROF, 67-68; NORTH CAROLINA, GREENSBORO, 68- Soc. Security Admin. res. grant, 64; Nat. Sci. Found. summer instnl. grant, Kansas, 66, Nat. Insts. Health biomed. support grant, 67. AAAS; fel. Sociol. Asn. Race and minority relations; social structure and stratification; poverty and dependency. Publ: Negro leadership in a southern city, Univ. North Carolina, 62 & Col. & Univ. Press, 64; An American dependency challenge, Am. Pub. Welfare Asn, 63; co-auth, Race relations and social change, In: The South in continuity and change, Duke, 64. Address: Dept. of Sociology & Anthropology, University of North Carolina at Greensboro, Greensboro, N.C. 27412.

BURGESS, DR. PHILIP M, b. Lebanon, Ind, May 1, 39; m. 63; c. 1. POLITICAL SCIENCE. B.A, Knox Col, 61; Ph.D.(int. rels), American Univ, 65. Mershon Center Ed. in Nat. Security fel, OHIO STATE, 65-66, ASST. PROF. POLIT. SCI, 66-, DIR. BEHAV. SCI. LAB, 67- Fulbright fel, Norway, 63-64; NATO res. fel, 66-67; Mershon Center Ed. in Nat. Security fel, 67-69; Nat. Sci. Found. fel, 67-69. AAAS; Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Simulation of international systems; comparative foreign policy and national security policy; decision making and organizational behavior. Publ: Elite images and foreign policy outcomes, 68 & co-auth, Nations in alliance: a simulation of coalition processes, 68, Ohio State Univ. Address: Behavioral Sciences Lab, Ohio State University, 404 B, W. 17th St, Columbus, Ohio 43210.

BURGESS, RALPH E(DWIN), b. Washington, D.C, Aug. 6, 08; m. 40; c. 3. ECONOMICS. A.B, Williams Col, 30; M.A, George Washington, 39. Indust. engr, West. Elec. Co, Ill. & Md, 30-32; economist, U.S. Dept. Treas, 34-39; sr. economist, Fed. Reserve Bank of New York, 39-43, 44-45; economist, joint cmt. internal revenue tax, U.S. Cong, D.C, 43-44; dir. govt. finance dept, Nat. Asn. Mfrs, N.Y, 45-47; pres. Commodity Mkt. Corp, 47-53; chief economist, Am. Cyanamid Co, 53-60; pres, Ralph E. Burgess & Assocs, 60-64; chief, econ. policy res, U.S. Securities & Exchange Cmn, D.C, 64-66; CHIEF ECONOMIST, NAT. ASN. SECURITIES DEALERS INC, 67- Lectr, Bridgeport, asst. prof, 63-64; guest economist, econ. adv. cmt, Nat. Asn. Mfrs, 53-56. Consult, joint econ. cmt. & house ways & means cmt, U.S. Cong. Econ. Asn; fel. Statist. Asn; Finance Asn; Asn. Bus. Econ.(exec. secy. treas). Business forecasting and finance; investments; securities industry regulation. Address: 10201 Gary Rd, Potomac, Md. 20854.

BURGESS, DR. ROBERT W(ILBUR), b. Newport, R.I, July 25, 87; m. 25; c. 3. STATISTICS. A.B, Brown, 08, hon. D.Sc, 48; B.A, Oxford, 10, Rhodes scholar, 08-11; Ph.D.(math), Cornell, 14. Instr. math, Purdue, 11-12; asst, Cornell, 12-14, instr, 14-16; Brown, 16-17, asst. prof, 19-25; sr. statistician, West. Elec. Co, 24-28, chief statistician, 28-42, chief economist, 42-52; dir, U.S. Bur. Census, 53-61; CONSULT, 61- U.S.A, 17-19, Maj. Econ. Asn; fel. Statist. Asn.(v.pres, 39); Pop. Asn. Industrial statistics and pension plans; statistical methodology. Publ: Introduction to the mathematics of statistics; co-auth, Cost behavior and price policy. Address: 440 Pelham Manor Rd, Pelham, N.Y. 10803.

BURGESS, DR. THOMAS C(HARLES), b. Bismarck, N.Dak, July 13, 20; m. 44; c. 4. PSYCHOLOGY. B.A, Montana, 42; Ph.D.(ed. psychol), Minnesota, 54. Instr. PSYCHOL, Missouri, 50-53; Oregon State, 53-55; ASSOC. PROF, Montana, 55-63; COUNSELING CENTER, PORTLAND STATE COL, 63- U.S.A, 42-45. Psychol. Asn; Personnel & Guid. Asn. Psychometry; personality. Publ: Student personnel problems after nineteen years, Personnel & Guid. J; On the single case in science & Form equivalence of the Ammons quick picture vocabulary test, Psychol. Reports. Address: Counseling Center, Portland State College, P.O. Box 751, Portland, Ore. 97207.

BURGESS, DR. W(ARREN) RANDOLPH, b. Newport, R.I, May 7, 89; m. 17; c. 2; m. 55. FINANCE. A.B. & A.M, Brown, 12, LL.D, 37; McGill, 12-15; Ph.D, Columbia, 20. Statistician & asst. dir. div. ed, Russell Sage Found, 19-20; chief reports div, Fed. Reserve Bank New York, 20-23, asst. fed. reserve agent, 23-30, dep. gov, 30-35, v.pres, 35-38; v.chmn, Nat. City Bank, 38-48, chmn. exec. cmt, 48-53; chmn. bd, City Bank & Farmers Trust Co, 48-53; dep. to Secy. of Treas, 53-54, Under Secy. Treas, 54-57; U.S.

ambassador NATO & Orgn. Econ. Coop. & Develop, 57-61; regent prof. econ, California, Berkeley, 62-63; CHMN. EXEC. CMT, ATLANTIC COUN. U.S, 67- Mem. bd. fels, Brown, 37- Trustee, Robert Col. Istanbul, 31; teachers col, Columbia, 34-; Carnegie Corp, 40-57. Statistician, War Industries Bd; House Mission to England & France, 17-18; v.chmn, Atlantic Treaty Asn, 64-68. Comdr, French Legion of Honor. U.S.A, 18-19. Fel. Statist. Asn. (pres, 37); Acad. Polit. Sci.(pres, 39); Philos. Soc. Trends of school costs; reserve banks and the money market; interpretations of reserve policy in the speech and writing of Benjamin Strong. Address: Atlantic Council of the United States, 1616 H St, N.W, Washington, D.C. 20006.

BURGHARDT, DR. ANDREW F, b. New York, N.Y, Apr. 5, 24; m. 56; c. 5. GEOGRAPHY. B.A, Harvard, 49; M.S, Wisconsin, 51, Koehler fel, 55-56, Ph.D.(geog), 58. Billing clerk, A.E. Chew Co, N.Y, 41-43, 46; cartographer, Am. Map Co, 49; asst. geog, Wisconsin, 50-51, 54-55; cartog. compiler, H.M. Gousha Co, Calif, 51-52; cartog. ed, U.S. Army Map Serv, R.I, 52-54; asst. prof. GEOG, Stanford, 57-61; McMASTER, 61-63, ASSOC. PROF, 63- Cartog. asst, Wisconsin, 51, summer, cartographer, soil surv, U.S. Dept. Agr, 56; Nat. Acad. Sci. res. grant, 56-57; Fulbright scholar res. grant, 60-61; Can. Coun. sr. fel, 67-68. Herfurth award, 58. Sig.C, U.S.A.A.F, 43-46. Asn. Am. Geog; Can. Asn. Geog; Am. Geog. Soc. Political and urban geography. Publ: Borderland, a historical-geographical study of Burgenland; Political geography of Burgenland; Location of river towns in the central lowland of the United States, Ann. Asn. Am. Geog. Address: 10 Parkside Ave, Dundas, Ont, Can.

BURGHARDT, DR. GORDON M, b. Milwaukee, Wis, Oct. 11, 41; m. 66. PSYCHOLOGY, ETHOLOGY. B.S, Chicago, 63, Ph.D.(biopsychol), 66. Instr. biol, Chicago, 66-67; ASST. PROF. PSYCHOL, TENNESSEE, 68- Nat. Inst. Ment. Health res. grant perception & behav, 67- AAAS; Psychol. Asn; Animal Behav. Soc; Soc. Ichthyol. & Herpet; Psychonomic Soc. Comparative psychology and ethology; visual and chemical perception; imprinting and early experience; reptile behavior; evolution of behavior in vertebrates. Publ: Co-auth, Food imprinting in the snapping turtle, Chelydra serpentina, 66 & auth, Chemical-cue preferences in inexperienced snakes: comparative aspects, 67, Science; auth, Chemical perception in newborn snakes, Psychol. Today, 67. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37916.

BURGY, PROF. J(ACOB) HERBERT, b. Monticello, Wis, Dec. 13, 97. GEOGRAPHY. B.A, Wisconsin, 20, M.A, 25; Ph.D.(geog), Clark, 30. Prof. geog, Moorhead State Teachers Col, 25-27; asst. prof, Illinois, 29-43; regional geogr, bd. geog. names, U.S. Dept. Interior, 43-44; agr. & pop. geogr, div. geog. & cartog, U.S. Dept. State, 44-45; civilian instr. geog, U.S. Army Univ. (France), 45-46; consult, U.S. Dept. War, Germany, 46; lectr. GEOG, Minnesota, 46-47; prof, Bradley, 47-61; Mass. State Col, Salem, 61-63; lectr, Hunter Col, 63-64; PROF, MASS. STATE COL, SALEM, 64- Consult, Am. Heritage Co, 65. Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic and regional geography, especially western hemisphere lands. Publ: New England cotton textile industry, Waverly, 32. Address: Dept. of Geography, Massachusetts State College at Salem, Salem, Mass. 01970.

BURIN, PROF. FREDERIC SIEGFRIED, II, b. Berlin, Germany, June 6, 22; U.S. citizen; m. 38; c. 2. POLITICAL SCIENCE. B.S, City Col. New York, 42; M.A, Syracuse, 46; Ph.D.(pub. law, govt), Columbia, 52. Res. analyst war crimes, Off. Chief U.S. Counsel, Germany, 46-47; instr. govt, Columbia, 50-55; sr. res. specialist, U.S. Dept. State, 56-61; PROF. GOVT, AMERICAN UNIV, 61- Vis. prof, New Sch. Soc. Res, 62-63; Fulbright lectr, Strasbourg, 63-64, vis. prof, springs 65-68. U.S.A.R, 43-45, Capt. Polit. Sci. Asn. Comparative jurisprudence; European political institutions; Socialist and Communist doctrines. Publ: Bureaucracy and national socialism, In; Reader in bureaucracy, Macmillan, 52; The Communist Doctrine of the inevitability of war, Am. Polit. Sci. Rev, 63; Executive power and the rule of law in the V French Republic, Soc. Res, 66. Address: School of Government & Public Administration, American University, 1901 F St. N.W, Washington, D.C. 20006.

BURK, DR. KENNETH WINFIELD, b. Laramie, Wyo, Jan 4, 32; m. 52; c. 3. SPEECH PATHOLOGY. B.A, Iowa, 53; M.A, Kentucky, 55; Ph.D.(speech path), Purdue, 62. Instr. psychol, Kentucky, 55-59; asst. prof. SPEECH PATH, PURDUE, 62-64, ASSOC. PROF, 65- Speech & Hearing Asn. Speech science. Address: Dept. of Audiology & Speech Sciences, Purdue University, Lafayette, Ind. 47905.

BURK, PROF. MARGUERITE C(ATHERINE), b. Ottawa, Kans, July 12, 15. AGRICULTURAL ECONOMICS. A.B, Kansas, 37, M.A, 38; Ph.D.(econ), Minnesota, 48. Statist. clerk, Farm Security Admin, 39-40, jr. economist, 40-41; indust. specialist, Off. Civilian Supply, 42-43; agr. economist, War Food Admin, 43; agr. econ. statistician, bur. agr. econ, U.S. Dept. Agr, 43-49, supvry. anal. statistician, 49-54, agr. mkt. serv, 54-61; PROF. AGR. ECON. & HOME ECON, MINNESOTA, 61-, vis. prof, 60. Nat. Sci. Found. summer travel grant, 64. Consult, Food & Agr. Orgn, UN, 61. Econ. Asn; Agr. Econ. Asn; Home Econ. Asn; Mkt. Asn. Soc. Int. Develop. Interdisciplinary study of consumption and family economic problems at micro and macro levels. Publ: Consumption economics: a multidisciplinary approach, Wiley, 68; Measures and procedures for analysis of U.S. food consumption; Influences of economic and social factors on U.S. food consumption. Address: 1914 N. Arona Ave, St. Paul, Minn. 55113.

BURK, DR. MONROE, b. New York, N.Y, June 8, 18; m. 42. ECONOMIC DEVELOPMENT, INTERNATIONAL ECONOMICS. B.S, City Col. New York, 38; M.B.A, Harvard, 40; Ph.D.(econ), American Univ, 50. ECONOMIST, U.S. STATE DEPT, 48- Adj. prof, American Univ, 47-53. Adv. to mission dir, U.S. Agency Int. Develop, Pakistan, 62- U.S.A, 42-45. Econ. Asn. Economic development policy and administration; planning; trade; fiscal policy; human resource development. Address: U.S. Agency for International Development, U.S. Dept. of State, Washington, D.C. 20523.

BURK, DR. SOPHIE R, Psychol, see 10th ed, Soc. & Behav. Vols.

BURKE, PROF. ARVID J(AMES), b. Staatsburg, N.Y, Dec. 15, 06; m. 34. FINANCE. A.B, N.Y. Univ, 28, M.A, 30; Ed.D, Columbia, 36. Dir. studies, State Teachers Asn, N.Y, 36-67; PROF. ED. ADMIN, STATE UNIV. N.Y. ALBANY, 66- Res. assoc, inst. admin. res, teachers col, Columbia, 42-43, 61-63; lectr, grad. sch. ed, Harvard, 46-47; State Univ. N.Y, 60-66. Consult, Nat. Munic. League, 38; Nations Schs, 39-59; State Ed. Conf. Bd, N.Y, 39-67; State Cmn. Ed. Finance, 54-56; Cmn. State Constitution, 56-58; State Ed. Dept, 59-60; Stanford, 60-; State Joint Legis. Cmt. Sch. Financing, N.Y, 61-63; State Cmn. Per Capita Assistance, N.Y, 62-64; State Cmn. State-Local Fiscal Rels, N.Y, 64-65, Regents Adv. Cmt. Ed. Leadership, 65-66; consult. & dir. res, State Cmn. Sch. Bldgs, 50-54; consult. sch. finance study & proj. dir. Ed. in State Constitution, State Ed. Dept, N.Y, 66-; chief of res. pub. sch. finance, Joint Legis. Cmt. Revise & Simplify Ed. Law, 67- U.S.A, 43-45, Sgt. Statist. Asn; Soc. Pub. Admin. Design of public school revenues systems; bibliographic research methods and intergovernmental relations in education; public school facilities and their financing. Publ: Education and the 1967 constitutional convention, State Univ. New York, 66; Local, state and federal financing of locally operated elementary and secondary schools, Rand McNally, 67; Documentation in education, Teachers Col. Press, 67. Address: Dept. of Educational Administration, State University of New York at Albany, Albany, N.Y. 12203.

BURKE, PROF. CLETUS JOSEPH, b. Webster, S.Dak, Aug. 31, 17; m. 42; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Southern California, 39; M.A, California, Los Angeles, 43; Ph.D.(exp. psychol), Iowa, 48. Instr. oceanog. & maritime meteorol, Scripps Inst, California, 43-46; asst. PSYCHOL, Iowa, 46-48; from asst. prof. to prof, Indiana, 48-63; from asst. prof. to PROF, CALIF. STATE COL. HAYWARD, 63- Dir. psychol. labs, Britannica Center Studies in Learning & Motivation, 61- Mem, psychobiol. panel, Nat. Sci. Found, 60-; psychobiol. fel. award panel, Nat. Inst. Ment. Health, 60-, res. & develop. prog, 67. U.S.A.A.F, 42-46, Capt. AAAS; Psychol. Asn; Inst. Math Statist. Experimental studies of the learning process; mathematical theories for psychological data; psychological statistics and measurement. Publ: Applications of a linear model to two-person interactions in Bush and Estes, In: Studies in mathematical learning theory; co-auth, Component model for stimulus variables in discrimination learning, Psychometrika; Markovian function of a Markov chain, Ann. Math. Statist. Address: Dept. of Psychology & Statistics, California State College at Hayward, 25800 Hillary, Hayward, Calif. 94542.

BURKE, DEAN FRED G(EORGE), b. Collins, N.Y, Jan. 1, 26; m. 49; c. 4. POLITICAL SCIENCE. B.A, Williams Col, 53; univ. fel, Princeton, 54, Ford Found, Soc. Sci. Res. Coun. fels. & M.A, 55, Ph.D, 58; Ford Found. grant, Eng. & E. Africa, 56-57. From asst. prof. to assoc. prof. polit. sci. & dir, Arneson Inst. Polit, Ohio Wesleyan, 57-60; prof. polit. sci. & dir. East. African studies, Syracuse, 60-68; DEAN INT. STUDIES, STATE UNIV. N.Y. BUFFALO, 68- Dir, Ohio Citizenship Clearing House, 57-60. Consult, curriculum develop. proj, Ohio State Univ, 67- Polit. Sci. Asn.(Kimbrough-Owen award, 59); Soc. Pub. Admin; African Studies Asn. Comparative local political systems; crosscultural methodology; African political systems; areal accessability and distribution of political authority. Publ: Local government and politics in Uganda, Syracuse Univ, 64; Tangenyika pre-planning, 65; co-auth, Transformation of East Africa, Basic Books, 66. Address: 1300 Elmwood Ave, Buffalo, N.Y. 14222.

BURKE, DR. HENRY ROBERT, b. Amesbury, Mass, Sept. 11, 11; m. 56; c. 5. COUNSELING, EDUCATIONAL PSYCHOLOGY. A.B, Catholic Univ, 32, M.A, 33, Ph.D.(psychol), 47. Prof. psychol. & ed, St. Mary's (Md), 47-52, dean upper div, 50-52; instr. relig. ed, Catholic Univ, 53-55; counseling psychologist, VET. ADMIN. HOSP, EAST ORANGE, 56-60, COORDINATOR COUNSELING PSYCHOL. SERV, 60- Lectr, Rutgers, 59- Psychol. Asn. Psychological evaluation of personality; counseling for vocational planning or rehabilitation. Publ: Sir Isaac Newton's formal conception of scientific method, New Scholasticism, 36; Raven's progressive matrices: review and critical evaluation, J. Genetic Psychol, 58; Raven: progressive matrices: construct validity, J. Psychol, 66. Address: 197 Ridgewood Ave, Glen Ridge, N.J. 07028.

BURKE, PROF. JOHN F(RANCIS), b. Newry, Ireland, May 27, 13; nat; m. 59; c. 2. PSYCHOLOGY. B.A, Louvain, 33, Ph.D, 51; M.A, Nat. Univ. Ireland, 45. Assoc. prof. philos, St. Bonaventure, 52-55, prof. philos. & psychol. & chmn. dept. philos, 55-59; assoc. prof. PSYCHOL, SOUTH. CONN. STATE COL, 59-64, PROF, 64- Amodal perception; visual perceptions of identity through changes in color, size and shape. Publ: Tunnel effect, Brit. J. Psychol; Amodal perception, Proc. Int. Cong. Psychol; Phenomenal permanence, Rev. Philosophique. Address: Dept. of Psychology, Southern Connecticut State College, New Haven, Conn. 06515.

BURKE, DR. MAURICE O(SCAR), b. Pittsburgh, Pa, Aug. 14, 17; m. 55; c. 1. CLINICAL PSYCHOLOGY. B.S, Carnegie Inst. Tech, 42; M.S, Pittsburgh, 49, Ph.D, 52. Civilian marine engr, U.S. Navy Dept, 42-46; voc. appraiser, Pittsburgh, 48-49, lectr. psychol, 48-50, clin. asst, 50-52; clin. psychologist & instr, inst. psychol. serv. Ill. Inst. Tech, 52-53, asst. prof, 53-56, assoc. prof. & dir. clin. serv, 56-62; clin. psychologist in private practice, 62- Consult, Winnetka Community Nursery Sch, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. Psychol. Asn; Acad. Psychother; fel. Soc. Proj. Tech. Psychotherapy; psychodiagnosis; social functioning. Publ: The clinical method of managerial selection, Bus. Horizons, spring 65. Address: 750 Green Bay Rd, Winnetka, Ill. 60093.

BURKE, DR. RICHARD EUGENE, b. Rochester, N.Y, Sept. 13, 30. EXPERIMENTAL PSYCHOLOGY. B.A, Rochester, 54; M.A, Columbia 55; Ph.D. (psychol), Wisconsin, 63. ASST. PROF. EXP. PSYCHOL, TEMPLE, 63-U.S.N, 55-57. Psychol. Asn. Operant conditioning; learning theory; experimental design. Address: 2011 Spruce St, Philadelphia, Pa. 19103.

BURKE, PROF. ROBERT E(UGENE), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BURKE, DR. TERENCE, b. Leicestershire, Eng, May 4, 31; m. 55; c. 2. GEOGRAPHY. B.A, Birmingham, 52, scholars, 52-54 & 55-56, Ph.D.(geog), 67;

Clark, 54-55. ASST. PROF. GEOG, MASSACHUSETTS, AMHERST, 60-R.A.F, 56-60, Res, 60-, Flight Lt. Asn. Am. Geog; Inst. Brit. Geog. Economic geography, especially of population; regional geography of North America and western Europe, especially Ireland; political geography. Address: Dept. of Geography, University of Massachusetts, Amherst, Mass. 01002.

BURKE, DR. WILLIAM M, b. Baltimore, Md, Oct. 1, 20; m. 44; c. 1. ECONOMICS. B.A, Loyola Col.(Md), 42; Ph.D.(econ), Georgetown, 58. Bus. economist, nat. income div, Off. Bus. Econ, U.S. Dept. Commerce, 52-53; res. economist, Bank Am, San Francisco, Calif, 53-59; dep. chief econ. studies br, bur. old age & survivors ins, U.S. Dept. Health, Ed. & Welfare, 59-62; SR. ECONOMIST, Nat. Indust. Conf. Bd, New York, 62-63; FED. RESERVE BANK SAN FRANCISCO, 63- Lectr, San Francisco, 56-59; McCoy Col, Hopkins, 60-62. U.S.N, 42-46, Ens. Econ. Asn. Economic history of the Far East, primarily Japanese economic development; business cycle theory and policy; location theory and regional economics; financing of social insurance systems. Publ: Creative response in Japanese development, Am. J. Econ. Sociol; The Kondratieff theory and the American economy, Tokyo Keizai Shimpo; Japan's entrance into international finance, Am. J. Econ. & Sociol, 65. Address: 159 14th Ave, San Francisco, Calif. 94118.

BURKE, DR. W(YATT) WARNER, b. DeKalb Co, Ala, May 12, 35; m. 58; c. 1. SOCIAL PSYCHOLOGY. B.A, Furman, 57; M.A, Texas, Austin, 61, Ph.D. (soc. psychol), 63. Instr. psychol, Texas, Austin, 62-63; asst. prof, Richmond, 63-66; PROG. DIR, INST. APPL. BEHAV. SCI, NAT. TRAINING LABS, 66- Consult, Gen. Foods; E.G. & G, Inc; Nat. Coun. Churches; Civil Serv. Cmn; Episcopal Diocese Wash, D.C; Nat. Ed. Asn; Esso Res. & Eng. U.S.A, 58-60, 1st Lt, Res, 60-64. Psychol. Asn. Small group behavior; leadership; experiential learning; organizational behavior. Publ: Leadership behavior as a function of the leader, the follower, and the situation, J. Personality, 3/65; Social perception as a function of dogmatism, Perceptual & Motor Skills, 12/66; co-auth, Conceptual versus experiential management training, Training & Develop. J, 12/67. Address: Institute for Applied Behavioral Science, National Training Laboratories, 1201 16th St. N.W, Washington, D.C. 20036.

BURKETT, DR. W(INFRED) K(EITH), b. Palestine, Ill, Aug. 21, 13; m. 43; c. 1. AGRICULTURAL ECONOMICS. B.S, Illinois, 36; A.M, Mich. State Col, 40; Ph.D, Wisconsin, 48. Assoc. prof. agr. econ, New Hampshire & assoc. economist, exp. sta, 48-57; AGR. ECONOMIST, econ. develop. div, econ. res. serv, U.S. Dept. Agr, 57-67; BUR. INDIAN AFFAIRS, 67- U.S.A, 43-45. Agr. Econ. Asn. Farm management; low income farms and rural development; Indian resource economics. Publ: Size and capital problems on New Hampshire dairy farms; co-auth, Farm management reference manual; Low incomes of rural people in south-central Kentucky. Address: Bureau of Indian Affairs, Washington, D.C. 20242.

BURKHARDT, DR. DWIGHT ARTHUR, Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

BURKHART, PROF. J(AMES) A(USTIN), b. Renovo, Pa, July 7, 14; m. 41; c. 2. POLITICAL SCIENCE. B.A. & M.A, Texas, 41. Instr. Am. hist, State Col. Wash, 41-42; Am. govt, Texas, 42-43; PROF. SOC. SCI, STEPHENS COL, 44- Ed, Mo. Soc. Sci. Bull, 50- Polit. Sci. Asn; Am. Studies Asn; fel. Int. Inst. Arts & Letters. American political parties; state legislatures. Publ: Co-auth, Contemporary social issues, Crowell, 55; Modern society; American government: the clash of issues, Prentice-Hall, 60. Address: Dept. of Social Science, Stephens College, Columbia, Mo. 65201.

BURKHART, DR. JOHN, b. Tipton, Ind, July 25, 08; m. 29; c. 2. ECONOMICS, STATE & LOCAL GOVERNMENT. A.B, DePauw, 28, LL.D, 59; L.H.D, Bates Col, 65. Gen. agent, Lincoln Nat. Life Ins. Co, 33-42; asst. gen. mgr, David White Co, 42-58; v.pres, COL. LIFE INS. CO. AM, 46-58, PRES, 58- Pres. & dir, Center Independent Action; trustee, William Volker Fund; chmn, United Student Aid Fund, Inc. Del, White House Confs. Ed, 55 & Aging, 60; dir, U.S. Chamber Commerce, mem. polit. participation cmn, 61-, chmn. ed. cmt, 65- Econ. Asn; Finance Asn; Acad. Polit. & Soc. Sci. Civic affairs; education; local, state and national government. Address: P.O. Box 72, Indianapolis, Ind. 46206.

BURKHEAD, PROF. JESSE (VERLYN), b. Armstrong, Iowa, Nov. 20, 16; m. 38; c. 2. ECONOMICS. B.A, Carleton Col, 38; M.A, Wisconsin, 39, Ph.D.(econ), 42; M.P.A, Harvard, 42. Fiscal analyst, U.S. Bur. Budget, 42-43, 46; asst. prof. ECON, Lehigh, 46-48; SYRACUSE, 48-49, assoc. prof, 49-54, prof, 54-65, MAXWELL PROF, 65- Consult, Joint State Govt. Cmn, Pa, 46-48; UN, 49-52. Mem. adv. cmt, studies govt. finance, Brookings Inst, 63- U.S.A.A.F, 43-46, 2nd Lt. Econ. Asn; Finance Asn; Polit. Sci. Asn. National income accounting; state and local finance. Publ: Government budgeting; Public school finance: economics and politics, 64 & co-auth, Inputs and outputs in large city education, 67, Syracuse Univ. Address: Dept. of Economics, 308 Maxwell, Syracuse University, Syracuse, N.Y. 13210.

BURKS, PROF. ARDATH W(ALTER), b. Covington, Ky, May 1, 15. POLITICAL SCIENCE. A.B, Cincinnati, 39; A.M, Minnesota, 41; Colorado, 43-44; Ph.D. Hopkins, 49. Asst. prof. POLIT. SCI, RUTGERS, 48-54, assoc. prof, 54-59, PROF, 59-, DIR. INT. PROGS, 66- Res. assoc. & field dir, Univ. Michigan Center Japanese Studies, Okayama, Japan, 52-53; Fulbright res. prof, Kyoto, 58-59; dir, Inst. Asian Cultures, 60-; faculty res. fel, Japan, 65-66; vis. prof, E.Asian Inst, Columbia, 66. Prog. consult, Int. House/ Japan, Inc, 65-66. Polit. Sci. Asn; Asn. Asian Studies. History, government and politics of the Far East; government, politics and urban affairs in Japan; comparative world urban affairs. Publ: Co-auth, Governments and politics of the Far East, 2nd ed, Van Nostrand, 56; auth, The government of Japan, 2nd ed, Crowell, 64. Address: Office of the Director of International Programs, Rutgers, The State University, 122 College Ave, New Brunswick, N.J. 08903.

BURKS, GEORGE F, b. Helena, Mont, Oct. 7, 07; m. 32; c. 2. FOREST ECONOMICS. B.S, California, 33. Forest economist, Calif. Forest & Range Exp. Sta, 33-50; div. forest econ. res, U.S. Forest Serv, D.C, 50-53, asst. chief, 52-55, staff consult, 55-58, dir. div. prog. planning, 58-65, ASST. ADMINSTR. COOP. FORESTRY RES, COOP. STATE RES. SERV, U.S. DEPT. AGR, 65- Soc. Am. Foresters. Timber management; forest utilization, programs and policy. Publ: Land and water resources, a policy guide, U.S. Dept. Agr, 62; Appalachia, 1964, land use information, Resources Future, Inc, 65; Trends in pulpwood supplied in the United States, Paper Indust. Address: Cooperative State Research Service, U.S. Dept. Agriculture, Washington, D.C. 20250.

BURKS, DR. HAROLD FRANCIS, b. U.S, Feb. 14, 19; m. 51; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, California, Los Angeles, 47; M.A, Southern California, 49, Ph.D, 55. Teacher, pub. sch, Can, 40-41; high sch, Calif, 49-50; private psychologist, 50-56; res. psychologist, Elizabeth McCormick Mem. Fund, Ill, 56-57; res. consult, pub. sch, Calif, 58-59; DIR. SPEC. ED, GALLATIN & DOWNEY SCH, 58-; CONSULT. RES. & GUID, LOS ANGELES COUNTY SCHS, 63- Prof, California, Los Angeles, Southern California & Los Angeles State Col, 53-59; lectr, British Columbia, 62; Northern Illinois, 66. Consult, R.I. Col, 60-61; consult. res, City of Hope, Duarte, Calif, 67. U.S.N, 42-45. Psychol. Asn. Brain pathology of children and its effect on behavior and learning. Publ: Effect of brain pathology on learning & Hyperkinetic child, J. Except. Child; The effect of amphetamine on hyperkinetic children, Arch. Gen. Psychiat, 64. Address: 5405 Double Dr, Temple City, Calif. 91780.

BURLEIGH, PROF. NATHANIEL G(EORGE), b. Franklin, N.H, July 10, 89; m. 14, 50; c. 1. BUSINESS ADMINISTRATION. A.B, Dartmouth Col, 11, M.C.S, 12, M.A, 19. Prof. indust. mgt, TUCK SCH, DARTMOUTH COL, 19-57, acting dean, 51-53, EMER. PROF. INDUST. MGT, 57- Lectr. & dean faculty, Post-Grad. Univ, Turin, Italy, 53. Div. dir, War Prod. Bd, 41-45; consult, Nat. Security Resources Bd, 48-50. Soc. Adv. Mgt; Mgt. Asn. Address: 1 Webster Terr, Hanover, N.H. 03755.

BURLEY, PROF. ORIN E(VERETT), b. West Union, Ohio, Dec. 23, 05. MARKETING. B.S, Okla. Agr. & Mech. Col, 28; A.M, Ohio State, 30, Ph.D, 37. From instr. to assoc. prof, Ohio State, 30-44; economist, Fed. Reserve Bank of Cleveland, 44-45; PROF. MKT, PENNSYLVANIA, 45- Prin. price specialist, Off. Price Admin, 42-44. Mkt. Asn; Econ. Asn. Consumers cooperative as a distributive agency; business management; drug store operating costs and profits. Address: Dept. of Marketing, Wharton Graduate School, University of Pennsylvania, Philadelphia, Pa. 19104.

BURLING, PROF. ROBBINS, b. Minneapolis, Minn, Apr. 18, 26; m. 51; c. 3. ANTHROPOLOGY. B.A, Yale, 50; Ford Found. fel, India, 54-57; Ph.D. (anthrop), Harvard, 58. Instr. ANTHROP, Pennsylvania, 57-59, asst. prof, 59-63; assoc. prof, MICHIGAN, 63-67, PROF, 67- Lectr, Rangoon, 59-60; fel, Center Adv. Study Behav. Sci, 63-64. U.S.N, 44-46. Anthrop. Asn; Ling. Soc; Asn. Asian Studies. Social organization; linguistics; Southeast Asia. Publ: Rengsanggri: family and kinship in a Garo village; Hill farms and padi fields, Prentice-Hall, 65; Garo grammar, Deccan Col. Mongr. Address: Dept. of Anthropology, University of Michigan, Ann Arbor, Mich. 48104.

BURLINGAME, DR. MILDRED, b. Ada, Ohio, Dec. 20, 03. PSYCHOLOGY. A.B, Stanford, 25, M.A, 27; Ph.D.(psychol), Minnesota, 30; Yale, 41-42. Asst. animal lab, Stanford, 25-27; Minnesota, 27-30; asst. prof. psychol, Fla. State Col. for Women, 30-38; San Diego State Col, 38-41; vis. fel, Yale, 41-42; from instr. to ASSOC. PROF. PSYCHOL, IDAHO, 42- AAAS; Psychol. Asn. Learning; comparative psychology; individual differences. Address: Dept. of Psychology, University of Idaho, Moscow, Idaho 83843.

BURMA, PROF. JOHN H(ARMON), b. Dallas, Tex, Apr. 2, 13. SOCIOLOGY. A.B, Trinity (Tex), 33; A.M, Texas, 38; fel, Nebraska, 39-41, Ph.D, 41. Chmn. dept. sociol, Grinnell Col, 41-46; asst. prof, Pomona Col, 46-47; PROF. SOCIOL. & CHMN. DEPT, GRINNELL COL, 47- Ed, Midwest Sociologist, 48-53. Sociol. Asn; Soc. Study Social Probs. Race relations; criminology; community research; Mexican Americans; educational sociology. Publ: Spanish-speaking groups in the United States; Workbook in introductory sociology; co-auth, Life in society, Scott, 65. Address: Dept. of Sociology, Grinnell College, Grinnell, Iowa 50112.

BURMEISTER, C(HARLES) A(LEXANDER), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

BURN, DR. NORTH, b. Roche Harbor, Wash, Dec. 20, 21; m. 50; c. 2. POLITICAL SCIENCE. B.A, Washington (Seattle), 43; M.A, Fletcher Sch. Law, 48, Ph.D.(int. rels), 64. Instr. polit. sci, Washington & Jefferson Col, 48-49; for. serv. officer, Dept. State, Sydney, Australia, 51-54; Manila, Philippines, 54-55; Washington, D.C, 55-60; Paris, France, 60-62; v.pres, Mills Col, 62-67; FIVE COL. COORDINATOR, AMHERST, SMITH, MT. HOLYOKE & HAMPSHIRE COLS. & UNIV. MASSACHUSETTS, 67- U.S.A.A.F, 43-47, Capt. Polit. Sci. Asn. Educational administration; international relations. Address: Box 740, Amherst, Mass. 01002.

BURNAM, PROF. PAUL W(AYNE), b. Abilene, Tex, Jan. 2, 13; m. 48; c. 2. ACCOUNTING. B.A, Hardin-Simmons, 34; M.B.A, Texas, 39; Ph.D, Alabama, 59. Head dept. math, high sch, Tex, 35-42; PROF. ACCT, SOUTHWESTERN LOUISIANA, 42-, HEAD DEPT, 52- Real estate broker, La. U.S.A, 42-45. Am. Acct. Asn. Integration of accounting with economic development of South. Address: Box 383, University of Southwestern Louisiana, Lafayette, La. 70501.

BURNES, DR. ALAN J(EFFREY), b. Boston, Mass, Nov. 21, 35; m. 56; c. 3. MENTAL HEALTH, COUNSELING PSYCHOLOGY. A.B, Dartmouth Col, 57; Lehman scholar, Harvard, 65, Ed.D.(psychol), 66. Res. asst. psychol. off. tests, & freshman adv, Harvard, 63-65; lectr, Lesley Col, 65-67; PRES, HUMAN DYNAMICS, INC, 67- Consult, S.Shore Ment. Health Center, 64-65, res. fel, 65-66; asst. prof, Boston Col, 66-67; staff psychologist, Beth Israel Hosp, 66; consult. psychologist, Bristol Acres Sch, 66- Mem, Mass. Venereal Disease Ed. Cmn, 66-67. U.S.M.C, 57-61, Res, 61-63, Capt. Orthopsychiat. Asn; Psychol. Asn; Sociol. Asn. Community mental health, residential treatment, development of sub-professional technologies; normal per-

sonality. Publ: Co-auth, Community adaptation schedule, Behav. Pub, 66; auth, Group membership and dimensions of social adaptation, Community Ment. Health J, 67; Models for inquiry, J. Sch. Psychol, 67. Address: 249 Jerusalem Rd, Cohasset, Mass. 02025.

BURNETT, PROF. BEN G(EORGE), b. Seattle, Wash, May 20, 24; m. 50. POLITICAL SCIENCE. A.B, California, Los Angeles, 48, Ph.D.(polit. sci), 55. Asst. POLIT. SCI, California, Los Angeles, 50-51; instr, Kent State, 51-53; WHITTIER COL, 53-54, asst. prof, 54-57, assoc. prof, 57-64, PROF, 64-, DIR, EXTENDED DAY PROG, 57-, dir. & prof, Whittier Col. in Copenhagen, Denmark, 61-62. Haynes Found. summer fel, 56; Univ. Res. Assocs. fel, 56; Danforth fel, 59; Soc. Sci. Res. Coun. grant, Chile, 63-64. U.S.A, 43-46. Polit. Sci. Asn. Comparative governments and politics. Publ: Co-auth, Rise of the Latin American labor movement & Political forces in Latin America, Wadsworth, 68; auth, Communist strategy in the Latin American labor movement. Address: Dept. of Political Science, Whittier College, Whittier, Calif. 90608.

BURNHAM, DR. CLARKE ADAMS, b. Newton, Mass, Sept. 24, 37; m. 59; c. 3. PSYCHOLOGY. B.A, Harvard, 61; Ph.D.(psychol), Stanford, 65. ASST. PROF. PSYCHOL, TEXAS, AUSTIN, 65- U.S.A, 55-57. Psychol. Asn. Perceptual learning. Address: Dept. of Psychology, University of Texas, Austin, Texas 78712.

BURNHAM, DR. JOHN CHYNOWETH, U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BURNHAM, DR. KENNETH E(DWARD), b. Wollaston, Mass, Jan. 30, 15; m. 46; c. 2. SOCIOLOGY. A.B, Berea Col, 40; M.A, Pennsylvania, 47, Ph.D. (sociol), 63. MEM. SOCIOL. FACULTY, TEMPLE UNIV, 48- Sociol. Asn; Soc. Study Social Probs; Soc. Sci. Study Relig. Sociology of religion; social disorganization. Address: Dept. of Sociology, Temple University, Philadelphia, Pa. 19122.

BURNHAM, PROF. PAUL S(YLVESTER), b. Turners Falls, Mass, Aug. 10, 02; m. 37. PSYCHOLOGY. Ph.B, Yale, 29, Ph.D.(ed. psychol), 35. Personnel asst, Yale, 29-35; sr. personnel exam, State Personnel Dept, Conn, 37-38; vis. res. fel, YALE, 41-42, from asst. prof. to ASSOC. PROF. PSYCHOL, 42-, ASSOC. DIR. STUDENT APPOINTMENT BUR, 43-, DIR. OFF. ED. RES, 59- Fulbright scholar, N.Z. & Australia, 55. AAAS; Psychol. Asn. Aptitude testing; stability of interest test scores. Publ: Co-auth, Forecasting college achievement; auth, Evaluation of academic ability, Col. Admissions; Entrance to a university college, an exploratory study. Address: Dept. of Psychology, Yale University, New Haven, Conn. 06520.

BURNHAM, DR. RHODA K, b. New York, N.Y, Aug. 20, 17; m. 41; c. 4. PSYCHOLOGY. B.A, Smith Col, 39; M.A, Columbia, 41; Ph.D.(clin. psychol), N.Y. Univ, 57. Mem. psychol. staff, Westchester Div, New York Hosp, 58-59; psychologist, Mamaroneck Jr. High Sch, 59-60; psychol. coordinator, Cent. Sch. Dist. 1, N.Y, 60-61; psychologist, Redding-Easton-Regional Sch. Dist, Conn, 61-62; psychol. consult, Joel Barlow High Sch, 62-63; private practice, 61- Psychol. Asn; Asn. Ment. Deficiency. Child and adolescent therapy; brain-damaged and emotionally disturbed children; diagnostic evaluation of children and adolescents. Publ: Relationship of personality to oral conditions in children. Address: 20 Bay St, Westport, Conn. 06880.

BURNHAM, DR. ROBERT WARD, JR, Systs. Eng, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BURNHAM, DR. WALTER DEAN, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

BURNIGHT, PROF. ROBERT G(ALEN), b. Lancaster, Pa, Aug. 6, 18; m. 43; div; m. 63. SOCIOLOGY. A.B, Franklin & Marshall Col, 40; A.M, Pennsylvania, 47, Ph.D.(sociol), 52. Instr. sociol, Pennsylvania, 47-49; asst. prof, Connecticut, 49-56, assoc. prof, 56-61; adj. prof. sociol. & mem. inst. health sci, BROWN, 61-63, PROF. SOCIOL, 63- Guggenheim fel, 59. U.S.A, 41-45. Sociol. Asn; Statist. Asn; Pop. Asn; Geront. Soc; Int. Union Sci. Study Pop. Demography; United States and Latin American internal migration and population distribution, mortality and morbidity analysis; Southeast Asia fertility analysis. Address: Dept. of Sociology, Brown University, Providence, R.I. 02912.

BURNS, DR. ALFRED J(OSEPH), b. Prairieville, La, Feb. 24, 31; m. 57; c. 3. AGRICULTURAL ECONOMICS, MARKETING. B.S, La. State, 54, M.S, 56, Ph.D.(agr. econ), 60. Asst. agr. mkt, La. State, 54, 56, res. assoc, 56-57; asst. consumer econ, Purdue, 57-60; AGR. ECONOMIST, MKT. ECON. DIV, ECON. RES. SERV, U.S. DEPT. AGR, 60- Agr. Econ. Asn. Consumer motivation in food purchases; market structure in fruit and vegetable markets. Address: Marketing Economics Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

BURNS, PROF. ARTHUR EDWARD, b. Oakland, Calif, Sept. 3, 08; m; c. 1. ECONOMICS. A.B, California, 31, M.A, 34; Ph.D.(econ), George Washington, 35. From instr. to PROF. ECON, GEORGE WASHINGTON, 34-, DEAN GRAD. SCH, 57-, sch. govt, 49-57. Lectr, Vargas Found, Univ. Brazil, 52. Consult, Int. Coop. Admin, 53-56; Italian Govt, 55; White House Staff, 57-60. Fel. AAAS; Econ. Asn. History of economic thought; military economics governmental expenditure and contract policies. Publ: Co-auth, Modern economics. Address: Dept. of Economics, George Washington University, Washington, D.C. 20006.

BURNS, PROF. ARTHUR F(RANK), b. Austria, Apr. 27, 04; m. 30; c. 2. ECONOMICS, STATISTICS. A.B. & A.M, Columbia, 25, Gilder fel, 26-27, Ph.D, 34; hon. LL.D, Lehigh, 52, Brown, 56, Dartmouth Col, 56, Oberlin Col, 56, Wesleyan, 58, Swarthmore Col, 58, Long Island, 60, Chicago, 60, Rikkyo Univ, Japan, 65; hon. L.H.D, Rutgers, 55; hon. Sc.D, Pennsylvania, 58, Rochester, 63. Instr. ECON, Rutgers, 27-30, asst. prof, 30-33, assoc. prof, 33-43, prof, 43-44; vis. prof, COLUMBIA, 41-44, prof, 44-58, JOHN BATES CLARK PROF, 59- Res. assoc, Nat. Bur. Econ. Res, 30-31, mem. res. staff, 33-, dir. res, 45-53, pres, 57-67, chmn, 67-; Millar lectr, Fordham, 57; Murray lectr, Iowa, 64; Fairless lectr, Carnegie Inst. Tech, 65; Moskowitz lectr, N.Y. Univ, 67; vis. prof, Stanford, 68. Chmn, President's Coun. Econ. Advs, 53-56, mem, Adv. Coun. Soc. Security Financing, 57-58, Presidents Adv. Cmt. Labor-Mgt. Policy, 61-66; Temporary State Cmn. Econ. Expansion, N.Y, 59-60; adv. bd, Indust. Col. Armed Forces, 58-64; bd. mgrs, Swarthmore Col, 59-62; Gov. Cmt. Minimum Wage, N.Y, 64- Econ. Asn.(pres, 59); Acad. Polit. Sci.(pres); fel. Statist. Asn; Economet. Soc; Am. Acad. Arts & Sci; Philos. Soc; cor. mem. Inst. Appl. Econ. Sci. Publ: Production trends in the United States since 1870; Frontiers of economic knowledge; co-auth, Measuring business cycles. Address: 2 Tudor City Place, New York, N.Y. 10017.

BURNS, PROF. ARTHUR ROBERT, b. London, Eng, Dec. 2, 95. ECONOMICS. B.Sc, London, 20, Ph.D, 26. Lectr, King's Col. Women, London, 22-26; Laura Spellman Rockefeller fel, 26-28; lectr. econ, Columbia, 28-33, prof, 33-64; RETIRED. With War Prod. Bd, 41-44; For. Econ. Admin, 44-46. Econ. Asn. Industrial organization. Publ: Government and electric power industry; Money and monetary policy in early times; Comparative economic organization. Address: 70 La Salle St, New York, N.Y. 10027.

BURNS, PROF. BERT E, b. Preston, Iowa, May 2, 15; m. 44; c. 2. GEOGRAPHY. B.A, Hastings Col, 47; M.A, Nebraska, 49, Ph.D, 54. PROF. GEOG, MANKATO STATE COL, 50- U.S.A, 41-46. Coun. Geog. Ed; Asn. Am. Geog. Address: Dept. of Geography, Mankato State College, Mankato, Minn. 56001.

BURNS, EDWARD J, O.S.A, b. Torrington, Conn, Oct. 10, 15. ECONOMICS. A.B, Villanova, 37; M.A, Catholic Univ, 41, Ph.D, 45. Instr. econ, Villanova, 45-47; prof, Merrimack Col, 47-52; Univ. Villanueva, Cuba, 52-59, dean, faculty econ. scis, 54-59; PROF. ECON, CHMN. DEPT. & DIR. DIV. ARTS & SCIS, MERRIMACK COL, 59- V.dean, Nat. Econ. Col, Cuba, 58-59. Ed, Noverim, 56-59. Econ. Asn. Commercial banking; Latin American economics. Publ: Some financial trends of commercial banks in Philadelphia, 1915-41. Address: Division of Arts & Sciences, Merrimack College, North Andover, Mass. 01845.

BURNS, PROF. EDWARD McN(ALL), b. Burgettstown, Pa, Feb. 18, 97; m. 36; c. 1. POLITICAL SCIENCE. A.B, Pittsburgh, 25, A.M, 27, Ph.D, 35, LL.D, 62; Chicago, summers, 26-29; Princeton, 33-34. Asst, Pittsburgh, 25-27; instr. hist, RUTGERS, 28-31, asst. prof, 31-34, assoc. prof, 41-47, prof, 47-51, chmn. dept. hist. & polit. sci, 50-51, prof. polit. sci. & chmn. dept, 51-62, EMER. PROF. POLIT. SCI, 62- Lectr, South Orange-Maplewood Adult Sch, 35-40; Fulbright prof, Berlin, 59-60; Eli Lilly lectr, Vanderbilt, 63; lectr, California, Santa Barbara, 64-65; Bennett Col, 65; James Taylor lectr, Southwest Tex. State Col, 66. Polit. Sci. Asn; Hist. Asn. Political philosophy of James Madison; history and culture of western civilization; contemporary and American political theory. Publ: Western civilizations, their history and their culture; The American idea of mission; Ideas in conflict, Norton, 60. Address: Hope Ranch Park, 4346 Via Presada, Santa Barbara, Calif. 93105.

BURNS, PROF. EVELINE M(ABEL), b. London, Eng, Mar. 16, 00; nat; m. 22. ECONOMICS. B.Sc, London, 20, Ph.D, 26; hon. L.H.D, West. Col, 62; hon. LL.D, Western Reserve, 63; hon. fel, London Sch. Econ, 64. Asst. ed, Economica, 22-26; Laura Spellman Rockefeller traveling fel, 26-28; lectr, grad. sch, Columbia, 28-42; chief security & health div, Nat. Resources Planning Bd, 42-43; lectr, Bryn Mawr Col, 43, 45; prof. SOC. WORK, COLUMBIA, 46-67, EMER. PROF, 67- Mem. sr. staff, Soc. Sci. Res. Coun, 37-39; res. dir, Nat. Resources Planning Bd, 39-42; vis. prof, Princeton, 50-51; Guggenheim fel, 54-55; Simon vis. prof, Manchester, 55. Consult, Works Progress Admin; U.S. Dept. Treas; Fed. Reserve Bd; Cmt. Econ. Security, 34-39; Nat. Planning Asn, 43-44; Soc. Security Admin, 36-; U.S. Children's Bur, 50, 59-60; ed. specialist, U.S. Dept. State, 58-59. Mem, Fed. Adv. Coun. Employ. Security, 51-; Nat. Adv. Cmt. Area Redevelop, 61-65; pres, Nat. Conf. Soc. Welfare, 58; mem, Nat. Adv. Cmt. Regional Econ. Develop, 65-; Major's Cmn. Delivery of Personal Health Serv, New York, 66-67. Adam Smith prize, 26; Florina Lasker award, Am. Pub. Health Asn, 60; Ittleson award, 68. Econ. Asn.(v.pres, 52); Indust. Rels. Res. Asn; Pub. Welfare Asn. Labor legislation; social insurance and public assistance; social security and social welfare. Publ: British unemployment programs; The American social security system; Social security and public policy. Address: Columbia University School of Social Work, New York, N.Y. 10028.

BURNS, PROF. JAMES M(acGREGOR), b. Melrose, Mass, Aug. 3, 18; m. 42; c. 4. POLITICAL SCIENCE. B.A, Williams Col, 39; Ph.D, Harvard, 47. Exec. secy, Non-Ferrous Metals Cmn, 42-43, temporary expert consult, Hoover Cmn, 48; res, London Sch. Econ, 49; from assoc. prof. to PROF. POLIT. SCI, WILLIAMS COL, 49- U.S.A, 43-45. Polit. Sci. Asn. History. Publ: John Kennedy: a political profile; The deadlock of democracy: four-party politics in America, Prentice-Hall, 63; Presidential government: the crucible of leadership, Houghton, 66. Address: Dept. of Political Science, Williams College, Williamstown, Mass. 01267.

BURNS, DR. JOSEPH M, b. New York, N.Y, Aug. 2, 38. ECONOMICS. A.B, Swarthmore Col, 60; Earhart Found. fels, Chicago, 60-61 & 63-65, A.M, 61, Ford Found. fel, 65-66, Ph.D.(econ), 67. Economist, Fed. Reserve Bank New York, 61-63; acting asst. prof. ECON, CALIFORNIA, LOS ANGELES, 66, ASST. PROF, 66-, summers, res. grant, inst. govt. & pub. affairs, 67, faculty fel, 68. Econ. Asn; Finance Asn; Royal Econ. Soc. Saving-investment process in a theory of finance. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

BURNS, PROF. LELAND S(MITH), b. Osage, Iowa, Nov. 18, 33. ECONOMICS. B.S, California, Los Angeles, 55, M.B.A, 57; fel, Washington (Seattle), 58-59; Ph.D.(econ), Netherlands Sch. Econ, 61. Asst. prof. BUS. ADMIN, CALIFORNIA, LOS ANGELES, 61-65, assoc. prof, 65-68, PROF, 68- Nat. Insts. Health, U.S. Pub. Health Serv. res. grant, 67-70. Consult, Los Angeles Regional Transportation Study, 61-62; cmt. indust. activity experts, European Coal & Steel Community, 63-64; Nat. Sci. Found, 65-66; U.S. Dept. Housing & Urban Develop, 66; U.S. Dept. Transportation, 67. U.S.A.R, 58-67, 1st Lt. Econ. Asn; Economet. Soc; Regional Sci. Asn. Urban and regional economics; housing. Publ: Investment time scheduling in urban

reconstruction: a quantitative study, Netherlands Econ. Inst, 61; co-auth, The complex metropolis, Univ. California, 67 & The econometrics of building a new town, Rev. Econ. & Statist, 11/63. Address: Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

BURNS, DR. MARY M(ARGARET) A(IKIN), b. Albia, Iowa, June 9, 06; wid. PSYCHOLOGY. B.S, Illinois, 30; M.A, Ohio State, 40; Ph.D, Cornell, 51. Asst. prof. psychol, Trinity (Tex), 47-49; assoc. prof. ed. psychol, Butler, 51-52; Georgia, 56-58; sch. psychologist, Palm Beach County Schs, 58-63; CLIN. PSYCHOLOGIST, Agnew State Hosp, Calif, 63-64; Santa Clara Co. Hosp, San Jose, Calif, 64-66; DIV. MENT. HEALTH, WAIPAHU MENT. HEALTH CENTER, HAWAII, 66- Psychol. Asn. Identification of gifted children. Address: 91-740 Ihipehu St, Ewa Beach, Hawaii 96706.

BURNS, DR. NEAL MURRAY, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

BURNS, DR. RICHARD DEAN, Mod. Hist, U.S. For. Policy, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BURNS, ROBERT IGNATIUS, S.J, Medieval Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BURNS, DR. ROBERT JOHN, b. Toledo, Ohio, Nov. 14, 16; m. 42. PSYCHOLOGY, GERONTOLOGY. B.B.A, Toledo, 41, M.A, 50; Ph.D.(counseling), Michigan, 65. Asst. dir. eve. sessions adult ed, TOLEDO, 46-52, asst. prof. PSYCHOL, 52-57, ASSOC. PROF, 57- Fel, summer inst. adv. study geront, Southern California, 67. U.S.A.F, 41-46, Res, 46-, Capt. Psychol. Asn; Geront. Soc; Personnel & Guid. Asn. Interests, attitudes, and adjustment of older persons. Publ: Physical and psychological characteristics of the elderly, Univ. Toledo, 66. Address: Dept. of Psychology, University of Toledo College of Arts & Sciences, Toledo, Ohio 43606.

BURNS, PROF. ROBERT K(ENNETH), b. Carmingay, Alta, Jan. 6, 09; nat; m. 47; c. 3. ECONOMICS. A.B, Washington (Seattle), 33; Ph.D.(econ), Chicago, 38. Asst. prof. INDUST. RELS, CHICAGO, 38-40, assoc. prof, 40-43, PROF, 45-, EXEC. OFFICER, INDUST. RELS. CENTER, 45-, ASSOC. DEAN, GRAD. SCH. BUS, 59- V.pres. & dir, Sci. Res. Assocs, 38-54; regional dir, Nat. War Mediation Bd, 41-42; chmn, Regional War Labor Bd, 42-44; Daily Newspaper Cmn, 42-45. Econ. Asn; Indust. Rels. Res. Asn; Geront. Soc; Royal Econ. Soc. Industrial relations; management development; personnel management. Publ: White collar unionism; Meaning and measurement of morale; Some unsettled issues in retirement policy. Address: Industrial Relations Center, University of Chicago, Chicago, Ill. 60637.

BURNS, PROF. ZED H(OUSTON), b. St. Paul, Minn, Nov. 3, 03; m. 35; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Auburn, 27, M.S, 29; fel, Cincinnati, 29-30, scholar, 32-33, Ed.D, 37. Teacher biol, Jacksonville State Col, 30-34; instr. safety, Birmingham Sch. Syst, 35-37; assoc. prof. ed, Appalachian State Teachers Col, 37-40; prof. indust. ed, Clemson Col, 41-46; appraiser, vet. guid. center, Auburn, Ala, 47-48; prof. ed, Miss. State Col. Women, 48-49; dean, Shorter Col, 49-50; prof. psychol. & head dept, SOUTHERN MISSISSIPPI, 50-56, PROF. INDUST. ARTS & CHMN. DEPT, 56- Voc. consult, Soc. Security Admin, 62- U.S.A, 43-45, Maj. Fel. Psychol. Asn. Effect of practice on individual differences; audio-visual techniques, especially slide-making; history, Civil War period. Publ: Practice, variability and motivation, J. Ed. Res; The effect of motivation on changes in variability during practice, J. Ed. Psychol; A science building for a teachers college, Am. Sch. & Univ. Yearbook. Address: Box 36, Southern Station, Hattiesburg, Miss. 39401.

BURNSIDE, DR. LENOIR H(ENDERSON), b. Thomson, Ga, 91. PSYCHOLOGY. A.B, La Grange Col, 11; Ph.D.(psychol), Hopkins, 26. Teacher, pub. schs, Ga, 12-23; asst. prof. child training, Cornell, 26; instr. psychol, sch. nursing, Rochester, 43-48; psychologist, psychol. serv. dept. Bd. Ed, N.Y, 26-60; private practice, 60- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; fel. Soc. Res. Child Develop. Child psychology; genetics; intellectually gifted children. Publ: Coordination in the locomotion of infants, Genetic Psychol. Monogr; Experimental program in the education of the intellectually gifted adolescent, Sch. Rev; Psychological Guidance of gifted children, J. Consult. Psychol. Address: Wesley Woods Towers, Apt. 206, 1825 Clifton Rd. N.E, Atlanta, Ga. 30329.

BUROS, PROF. OSCAR K(RISEN), b. Lake Nebagamon, Wis, June 14, 05; m. 25. EDUCATIONAL MEASUREMENT. B.S, Minnesota, 25; M.A, Columbia, 28. Instr. ed. measurement, Teachers Col, Columbia, 29-30; prin, pub. sch, N.J, 30-32; asst. prof. ED, RUTGERS, 32-38, assoc. prof, 39-43, prof, 43-65, dir. INST. MENT. MEASUREMENTS, 46-65, EMER. PROF. & EMER. DIR, 65- Assoc. dir. eval. staff eight-year study, Progressive Ed. Asn, 34-35; Fulbright lectr, Makerere Univ. Col, Uganda, 56-57; Ford Found. prog. specialist, vis. prof. & acting head dept. ed, Univ. East Africa, Nairobi, 65-66. Pres, Gryphon Press, 40-; Buros Found, 66- Ed, Ment. Measurements Yearbooks, 38- Chmn, Invitational Conf. Testing Probs, 49. Sig.C, U.S.A, 42-45, Maj. Fel. AAAS; Ed. Res. Asn; Nat. Coun. Measurement in Ed. (v.pres, 64-65); Personnel & Guid. Asn; Psychomet. Soc; fel. Statist. Soc; fel. African Studies Asn; Int. Reading Asn; Royal African Soc. Mental measurements; statistics; educational psychology. Publ: Tests in print, 61, Personality tests and reviews, 68 & Reading tests and reviews, 68, Gryphon. Address: 220 Montgomery St, Highland Park, N.J. 08904.

BURR, DR. EMILY, Psychol, see 10th ed, Soc. & Behav. Vols.

BURR, DR. HELEN GUNDERSON, Speech Path, Audiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BURR, DR. WESLEY RAY, b. Bingham, Utah, Aug. 19, 36; m. 58; c. 4. SOCIOLOGY. B.S, Brigham Young, 60, M.S, 61; Nat. Inst. Ment. Health trainee & Ph.D.(sociol), Minnesota, 67. Asst. human develop. & family rels, Brigham Young, 61, instr, 61-63; family studies, Minnesota, 63-66; ASST. PROF. SOCIOL, PORTLAND STATE COL, 66- Sociol. Asn; Nat. Coun. Family Rels. Family sociology; research methodology. Address: Dept. of Sociology, Portland State College, Portland, Ore. 97207.

BURRELL, PROF. ANNA PORTER, b. Knoxville, Tenn. PSYCHOLOGY, HUMAN RELATIONS. B.S, Pennsylvania, 23, M.S, 26; Columbia, 39-41; Ph.D.(psychol, human rel), N.Y. Univ, 49. Instr. chem, Lincoln (Mo), 23-25; bact, med. sch, Howard, 26-29; teacher, high schs, N.Y, 30-48; PROF. PSYCHOL, ED. & HUMAN RELS, STATE UNIV. N.Y. COL. BUFFALO, 48- Fulbright prof, India, 59-60. Summers, dir. human rels. workshops & lectr, Buffalo, 49-52, 59, 61, dir. human rels. workshop, Rutgers, 55-56. Consult, Bd. Ed, New York, 45-48; Buffalo, N.Y, 50-53; Chicago, Ill, 57; Phila, 61. Mem, President's Cmn. Civil Rights, 58-61; Col. Cmt. on Disadvantaged, State Univ. N.Y, 64- Soc. Psychol. Study Social Issues. Publ: Understanding the problem child, Econ. Press, 64; Do's and don't's of the needs theory. Address: 1300 Elmwood Ave, Buffalo, N.Y. 14222.

BURRELL, PROF. O(RIN) K, Bus. Admin, see 10th ed, Soc. & Behav. Vols, deceased 64.

BURRELL, DR. SIDNEY ALEXANDER, Eng. & Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BURRILL, DR. MEREDITH F(REDERIC), b. Houlton, Maine, Dec. 23, 02; m. 27; c. 2. GEOGRAPHY. A.B, Bates Col, 25, hon. Sc.D, 60; A.M, Clark, 26, fel, 28-30, Ph.D.(geog), 30. Instr. physiog, Lehigh, 26-28; head dept. geog, Mass. State Norm. Sch, Worcester, 29-30; asst. prof, Okla. State, 30-31, assoc. prof, 31-37, prof. 37-40; econ. geogr, gen. land off, U.S. DEPT. INTERIOR, 40-42, chief div. res. & anal, 42-43, dir. U.S. Bd. Geog. Names, 43-48, DIR. OFF. GEOG. & EXEC. SECY, BD. GEOG. NAMES, 48- Res. adv, soc. res. coun, McGill, 31; south. regional grant-in-aid, Soc. Sci. Res. Coun, 32; prof. lectr, George Washington, 61-62. Chmn. cmt. soc. geog, Nat. Res. Coun, 48-51, v.chmn. cmt. adv. geog. br, U.S. Off. Naval Res, 49-52; chmn, panel geog. names, UNESCO, 60. Ed, Prfnl. Geog, 54-57. Mem, Order of Alfonso X, El Sabio, 55. AAAS; fel. Am. Geog. Soc; Asn. Am. Geog.(secy, 60-63); Am. Name Soc.(2nd v.pres, 53, pres, 55); Geophys. Union; Royal Geog. Soc. Toponymy; economic geography; social geography. Publ: Toponymic generics in the U.S; Socio-economic atlas of Oklahoma; co-ed, Water for industry. Address: Office of Geography, U.S. Dept. of the Interior, 1717 H St. N.W, Washington, D.C. 20006.

BURRINGTON, LEO I(VAN), Econ, see 10th ed, Soc. & Behav. Vols.

BURRIS, PROF. EDWARD C(ANSLER), b. Chandler, Okla, Feb. 21, 06; m. 26; c. 2. ECONOMICS. B.S, Okla. State, 24, M.S, 27; Chicago, 27-28; Wisconsin, 31-33. Instr. bus. admin, Okla. State, 28-31; Wisconsin, 31-33; asst. prof. econ, Okla. State, 33-36; assoc. economist, Resettlement Admin, 36-37; assoc. prof. econ, Okla. State, 37-42; asst. state price officer, Off. Price Admin, 42-43; PROF. ECON. & V.DEAN COL. BUS, OKLA. STATE, 45- Mem. panel arbitrators, Fed. Mediation & Conciliation Serv, U.S. Dept. Labor. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit; Arbit. Asn. Industrial relations; collective bargaining; labor arbitration. Address: Dept. of Economics, Oklahoma State University, Stillwater, Okla. 74075.

BURRIS-MEYER, HAROLD, Acoustics, see 11th ed, Phys. & Biol. Vols.

BURROS, DR. RAYMOND H(ERBERT), b. Scranton, Pa, Sept. 24, 22; m. 50; c. 2. PSYCHOLOGY. B.S, Trinity Col.(Conn), 45; M.A, Yale, 46, Ph.D. (psychol), 49. Asst. prof. psychol, Arkansas, 49-51; res. assoc, Illinois, 51-52, asst. prof, 52-54; vis. assoc. prof, Houston, 54-55; dir. statist. controls dept, Inst. Motivational Res, Inc, 55; oper. res. analyst, combat oper. res. group, Tech. Oper, Inc, 55-61; indust. design specialist human factors, Light Mil. Electronics Dept, Gen. Elec. Co, 61-62; human factors scientist, Syst. Develop. Corp, N.J, 62-64, Mass, 64-66, sr. opers. res. scientist, 66; SR. OPERS. RES. ANALYST, SANDERS ASSOCS, INC, NASHUA, N.H, 67- Statist. Asn; Psychol. Asn; Psychomet. Soc; Oper. Res. Soc. Human factors in operations research; statistical decision theory; signal detection; artificial intelligence. Publ: Application of the method of paired comparisons to the study of reaction potential, Psychol. Rev; Solution for case III of the law of comparative judgment & Estimation of the discriminal dispersion in the method of successive intervals, Psychometrica. Address: 20 Overlook Dr, Bedford, Mass. 01730.

BURROUGHS, CARROLL A(RMAND), b. Detroit, Mich, Apr. 17, 10; m. 40. ANTHROPOLOGY. B.A, New Mexico, 40, 45-47. Instr. anthrop, Washington (Seattle), 47-52; archaeologist, NAT. PARK SERV, 52-54, supt, Coronado Nat. Mem, 54-57, park archaeologist, Mesa Verde Nat. Park, 57-59, staff archaeologist, D.C, 59-63, ASST. SUPT, EVERGLADES NAT. PARK, 63- U.S.N, 42-45, Lt. Comdr. Fel, Anthrop. Asn; Soc. Am. Archaeol. Archaeology in the southwest, southeast and northwest United States. Address: Everglades National Park, P.O. Box 279, Homestead, Fla. 33030.

BURROUGHS, DR. ROY J(UDSON), b. Jennings, Okla, Jan. 2, 03; m. 33; c. 3. ECONOMICS. B.S, Okla. Agr. & Mech. Col, 24; A.M, Michigan, 30, Ph.D, 33. Instr. econ, Port Huron Jr. Col, 33-34; real estate analyst & housing economist, Fed. Housing Agencies, 35-36, 38-44; asst. prof. econ, Mich. State Col, 36-38; mem. staff, bur. agr. econ, U.S. Dept. Agr, 44-51; ECONOMIST, DIV. INT. AFFAIRS, DEPT. HOUSING & URBAN DEVELOP, 51- Mem, U.S. Adv. Housing Mission, Philippines, 46, Formosa, Indonesia & Philippines, 54, Brit. Honduras, 56, Tunisia, 60; mem. U.S. del, UN Econ. Cmn. Asia & Far East Housing Group, 56, Econ. Cmn. Europe Housing Cmn, 57-58, 60-64, Cmn. Soc. Develop, 61-66; Orgn. Am. States Meeting on Housing, 58; UN Econ. & Soc. Coun, 67, Cmn. Housing, Bldg. & Planning, 63 & 67. Econ. Asn; Statist. Asn. Housing finance. Publ: Should urban land be publicly owned, Land Econ, 66. Address: Division of International Affairs, Dept. of Housing & Urban Development, Washington, D.C. 20410.

BURROWS, DR. ALAN A(LBERT), Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

BURROWS, DR. ALBERT H(ENRY), b. Cameron, Mo, Mar. 28, 96; m; c. 1. SOCIOLOGY, ECONOMICS. A.B, Mo. Wesleyan Col, 20; Garrett Inst, 20-21;

Chicago, 21-22; S.T.B, Boston, 26; Harvard, 26-27; Ph.D, Iowa, 36. Prof. sociol. & econ, William Penn Col, 27-33; prof. econ. & chmn. dept, Nebr. State Teachers Col, Chadron, 33-41; prof. sociol. & econ, chmn. dept, & dir. grad. studies, Northern Michigan, 41-66; PROF. SOCIOL. & POLIT. ECON, WILLIAM PENN COL, 66- Sociol. Asn; Econ. Asn; Asn. Soc. Workers; Acad. Cert. Soc. Workers; Nat. Ed. Asn. Juvenile delinquency; competition in forensics; economics of teachers' salaries. Publ: Co-auth, Social services in the school; contrib, Professional school psychology. Address: Dept. of Sociology, William Penn College, Oskaloosa, Iowa 52577.

BURROWS, BEATRICE G(LENICE), b. Willows, Calif, July 5, 08. EDUCATIONAL PSYCHOLOGY. A.B, Chico State Col, 31; M.A, Stanford, 43. Teacher, pub. schs, Calif, 28-36, high schs, 36-41, head jr. high dept, 38-41, dean girls, 41-44; dir. child care centers, STOCKTON UNIFIED SCH. DIST, 44-53, asst. dir. res. & psychol. servs, 48-53, PSYCHOLOGIST, 53- Psychol. Asn; Asn. Ment. Deficiency. Evaluation of children for special education programs; differential diagnosis of emotionally disturbed, neurologically impaired and mentally retarded; learning problems; techniques for identifying retarded children at early ages. Address: 1948 S. Tuxedo, Stockton, Calif. 95204.

BURROWS, PROF. CHARLES N(ICHOLI), Sociol, see 10th ed, Soc. & Behav. Vols.

BURRUS, DR. JOHN N(EWELL), b. Gilmer, Tex, Jan. 23, 20. SOCIOLOGY. B.A, Mississippi, 42; M.A, La. State, 44, fel, 48-49, Ph.D.(sociol), 50. Asst. prof. sociol, Mississippi, 43-45; instr, Vanderbilt, 47-48; res. assoc, La. State, 48-50; asst. prof, Florida, 50-51; asst. prof, SOUTHERN MISSISSIPPI, 51-52, assoc. prof, 52-57, PROF. SOCIOL, 57-, CHMN. DEPT, 52- Sociol. Asn; Rural Sociol. Soc; Pop. Asn. Am. Demography; rural-urban change. Publ: Life Opportunities: an analysis of differential mortality in Mississippi; co-auth, Social problems & Mississippi's people, 1950. Address: Box 74 Southern Station, Hattiesburg, Miss. 39401.

BURSEY, DR. L(EWIS) GERALD, b. Montreal, Que, Jan. 1, 28. POLITICAL SCIENCE. B.A, McGill, 48, Mackenzie fel, 48-49, Delta Upsilon scholar, 49-50, provincial fel, 49-51; fel, Harvard, 51-54, A.M. & Ph.D.(polit. sci), 57. Instr. POLIT. SCI, Mass. Inst. Tech, 57-59; asst. prof, Brooklyn Col, 59-61; ASSOC. PROF, NORTHEASTERN, 61- Polit. Sci. Asn; Soc. Polit. & Legal Philos; Acad. Polit. & Soc. Sci. Political theory; comparative government; philosophy; jurisprudence; international relations. Address: 31 Quint Ave, Boston, Mass. 02134.

BURSIEK, PROF. RALPH C(ARL), b. Rockford, Ill, Nov. 25, 06; m. 27; c. 2. ECONOMICS. Cincinnati, 31, A.M, 32, Taft fel, 32-34; Wisconsin, 48-50. Instr. ECON, COL. BUS. ADMIN, CINCINNATI, 34-39, asst. prof. & dir. student union, 39-42, assoc. prof. & asst. dean, 46-51, PROF. & DEAN UNIV. ADMIN, 51-, V.PRES, 55- Asst, Fed. Emergency Relief Admin, 34. Pres, Mid-Am. Conf, 49-50. U.S.A, 42-46, Maj. Econ. Asn; Soc. Adv. Mgt; Finance Asn. Money and banking. Address: University of Cincinnati, 202 Van Wormer Administration Bldg, Cincinnati, Ohio 45221.

BURSK, EDWARD C, b. Lancaster, Pa, Apr. 16, 07; m. 30; c. 3. BUSINESS ADMINISTRATION. A.B, Amherst Col, 28; A.M, Harvard, 29. Mem. faculty, Dartmouth Col, 31-33; pres, J.H. Bursk, Pa, Del. & Md, 33-41; mem. faculty, Franklin & Marshall Col, 41-42; BUS. SCH, HARVARD, 42, managing ed, HARVARD BUS. REV, 43-47, ED, 47-, prof. bus. admin, 53-67. Ed. dir, Int. Mkt. Inst; pres, Int. Mgt. & Mkt. Group. Mkt. Asn. Publishing; marketing. Publ: Text and cases in marketing: a scientific approach; ed, Business and religion; co-auth, The world of business. Address: Harvard Business Review, Soldiers Field, Boston, Mass. 02163.

BURSK, PROF. J(OSEPH) PARKER, Statist, see 10th ed, Soc. & Behav. Vols, deceased.

BURSTEIN, DR. ALVIN GEORGE, b. Omaha, Nebr, Mar. 31, 31; m. 51. PSYCHOLOGY. B.A, Chicago, 50, M.A, 58, Ph.D, 59. Intern psychol, dept. psychiat, Chicago, 59-60; asst. prof. PSYCHOL, Michigan, 60-63; ILLINOIS, CHICAGO, 63-64, ASSOC. PROF, 64- Prof. lectr, Chicago, 64- Consult, Chicago State Hosp, 59-60; Vet. Admin. Hosp, Ann Arbor, Mich, 61-63. Med.Serv.C, U.S.A, 54-56. Psychol. Asn; Speech & Hearing Asn. Thought-pathology in schizophrenics and children; psychodiagnostics. Publ: Verbal aspects of primary process thought in schizophrenia; Primary process in children as a function of age; Note on time of first response in Rorschach protocols. Address: Neuropsychiatric Institute, University of Illinois, 912 S. Wood St, Chicago, Ill. 60612.

BURSTEIN, DR. KENNETH R(ICHARD), b. Chelsea, Mass, Nov. 4, 28; m. 58; c. 4. PSYCHOLOGY. A.B, Boston, 58; Ph.D.(psychol), Duke, 61. Asst. prof. PSYCHOL, Tex. Tech. Col, 61-63, res. assoc. & vis. lectr, Massachusetts, Amherst, 63-66; ASST. PROF, SIMON FRASER UNIV, 66- Res. grants, Nat. Inst. Ment. Health, 63-64, 66-67, Nat. Res. Coun. Can, 67-69. U.S.A, 51-53. Psychonomic Soc; Soc. Psychophysiol. Res. Classical and instrumental conditioning; learning theory; role of emotion in the development and maintenance learned behavior. Publ: Co-auth, A comparison of skin potential and skin resistance as measures of emotional responsivity, Psychophysiology, 2: 14-24, Primary stimulus generalization: a replication of Hovland's study of generalization to frequency of tones, 72: 782-784 & Primary stimulus generalization as a function of objective and subjective definition of the stimulus dimension, 74: 124-131, J. Exp. Psychol. Address: Dept. of Psychology, Simon Fraser University, Burnaby 2, B.C, Can.

BURSTEIN, PROF. MEYER L(OUIS), Econ, see 10th ed, Soc. & Behav. Vols.

BURT, PROF. OSCAR R(AYMOND), b. Ansley, Nebr, Oct. 20, 31; m. 50; c. 5. ECONOMICS. B.S, Nebraska, 58; M.A, California, Berkeley, 61, Ph.D.(agr. econ), 62. Jr. specialist AGR. ECON, exp. sta, California, Berkeley, 60-61, asst. prof, Davis, 61-64; assoc. prof, Missouri, 64-67, PROF, 67-68; MONTANA STATE, 68- Agr. Econ. Asn; Economet. Soc; Inst. Mgt. Sci. Temporal allocation of natural resources and the economics of replacement. Publ: Optimal resource use over time with an application to ground water, Mgt. Sci, 9/64; Optimal replacement under risk, J. Farm Econ, 5/65; Groundwater management under quadratic criterion functions, Water Resources Res, 10/67. Address: Dept. of Agricultural Economics, Montana State University, Bozeman, Mont. 59715.

BURTENSHAW, DR. CLAUDE J, b. Shelton, Idaho, Feb. 24, 18; m. 42; c. 7. POLITICAL SCIENCE, ECONOMICS. B.S, Utah, 47, M.S, 48, Ph.D.(polit. sci), 55. Chmn. div. community serv, Ricks Col, 54-61; dir, Carbon Jr. Col, 61-62; PROF. POLIT. SCI. & DEAN STUDENTS, UTAH STATE, 62- Consult, Univ. Utah, 61- Mem, Idaho House Rep, 53-54, Senate, 59-60. U.S.A.A.F, 42-46. Political pressure groups; public administration and law. Publ: What is a university student, Utah State Univ. Monograph, 65; The student: his university and his church, Dialogue, 66; Political theory of pluralist democracy, West. Polit. Quart, 68. Address: Dept. of Political Science, Utah State University, Logan, Utah 84321.

BURTLE, JAMES L(INDLEY), b. Manette, Wash, July 18, 19. ECONOMICS, STATISTICS. B.A, Chicago, 42, M.A, 48; Columbia, 48-49. Economist, De Vegh & Co. & Econ. Co-op. Admin, 49; Int. Labor Off, Switz, 49-58; SR. ECONOMIST, GEN. DEVELOP. DEPT, W.R. GRACE & CO, 58- Lectr, Roosevelt Col, summer 48; asst. prof, Long Island, 59-; lectr, Columbia, 65- U.S.A.A.F, 42-46, Sgt. Econ. Asn; Statist. Asn; Economet. Soc. International trade; economic development. Publ: Automation, guaranteed wages and shorter hours of work, Int. Labor Rev; Parametric maps of different types of economic development, Rev. Econ. & Statist. Address: W.R. Grace & Co, 7 Hanover Square, New York, N.Y. 10005.

BURTNER, PROF. FRANK A(LAN), b. Wharton, Tex, July 3, 14. SOCIOLOGY. A.B. & A.M, Texas, 39; Yale, 46-47, Gen. Ed. Bd. fel, 46-48; Ph.D, North Carolina, 58. Asst. prof. sociol, Clemson Col, 39-44; asst, North Carolina, 44; field dir, Am. Red Cross, 44-45; assoc. prof. SOCIOL, CLEMSON, 48-58, PROF, 58- Sociol. Asn; Soc. Appl. Anthrop. Industrial and occupational sociology. Address: Dept. of Social Sciences, Clemson University, Clemson, S.C. 29631.

BURTON, DR. ARTHUR, b. New York, N.Y, Mar. 10, 14; m. 44; c. 1. PSYCHOLOGY. A.B, California, Los Angeles, 36, M.A, 38, Ph.D.(psychol), Berkeley, 40. Assoc. personnel exam, State Personnel Bd, Calif, 42-45, sr. clin. psychologist, State Youth Authority, 45-46; assoc. prof. psychol, Idaho State, 46-47; Willamette, 47-48; chief psychologist, Agnews State Hosp, State Dept. Ment. Hyg, Calif, 48-64; PROF. PSYCHOL, SACRAMENTO STATE COL, 64- Private practice, 48-; lectr, California, Davis, 68- Consult. ed, Psychotherapy; J. Existentialism; Voices. Fel. Psychol. Asn; Acad. Psychother; Soc. Proj. Tech. Psychotherapy; humanism; existentialism; schizophrenia. Publ: Co-ed, Clinical studies of personality; Case histories in clinical and abnormal psychology; auth, Modern humanistic psychotherapy, Jossey-Bass, 67. Address: 307 Balboa Ave, Davis, Calif. 95616.

BURTON, DR. DOROTHEA, Geog, see HAWLEY, DR. DOROTHEA BURTON.

BURTON, DR. IAN, b. Derby, Eng, June 24, 35; m. 62; c. 1. GEOGRAPHY. B.A, Birmingham, 56, M.A, 57; Eng. Speaking Union fel, Oberlin Col, 57-58; Ph.D.(geog), Chicago, 62. From lectr. to ASSOC. PROF. GEOG, TORONTO, 61- Consult, Ont. Dept. Hwy, 61-62; Ford Found. & var. govt. agencies, East. India, 64-65; consult, WHO, 67. Mem. geog. panel, behav. & soc. sci. surv, 67-; Nat. Acad. Sci-Nat. Res. Coun, 67-; adv. cmt. geog. appl. satellite data, U.S. Geol. Surv. Asn. Am. Geog; Am. Geog. Soc; Regional Sci. Asn. Resource management, especially water resources; human adjustments to natural hazards; environmental perception and behavior. Publ: Types of agricultural occupance of flood plains in the U.S, 62 & co-auth, Readings in resource management and conservation, 65, Univ. Chicago; Perception of natural hazards in resource management, Natural Resources J, 64. Address: Dept. of Geography, University of Toronto, Toronto 5, Ont, Can.

BURTON, JOHN E, b. North Bloomfield, Ohio, Mar. 2, 08; m. 30; c. 2. PUBLIC ADMINISTRATION. B.A, Hiram Col, 28; M.B.A, Northwestern, 29. Res. assoc, Inst. Econ. Res, Inc, 29-35; dir. res, State Mortgage Cmn, N.Y, 35-38; dir, private res. group, 38-42; State Div. Budget, N.Y, 43-50; V.PRES. BUS, CORNELL, 50- Chmn, Post-War Pub. Works Planning Cmn, 43-47; mem, State Vet. Cmn, 44-50; Governor's Cmts, State-Local Fiscal Rels, 45, State Ed. Prog, 45-50, chmn, Thru-way Cmt, 50, Power Resources, 59; mem, State Cmn. Munic. Revenue, 45; tax cmt, Coun. State Govts, 45-46, Cmn. for Need of State Univ, 46-48, Grants-in-Aid Cmt, 47-48, Bd. Mgrs, 54-58, 60-; fed. state rel. task force, Hoover Cmn, 47-48; chmn, State Power Authority, 50-54, trustee, 50-58; mem, Fed. Temporary Cmn. Intergovt. Rel, 53-55, Fed. Adv. Cmn, Intergovt. Rels, 59-62; Fed. Adv. Coun. Pub. Assistance, 59; dir. res, N.Y. State Joint Legis. Cmt. Sch. Financing; mem, N.Y. State Cmt. Welfare Costs, 65; Regents' Adv. Cmt. Higher Ed. Facilities, 65-; N.Y. State Cmn. Constitutional Convention, 66-67. Economics. Address: Day Hall, Cornell University, Ithaca, N.Y. 14850.

BURTON, DR. N(ANCY) G(AINES), b. Rogers, Ark, Oct. 8, 26; m. 48; c. 1. CLINICAL & EXPERIMENTAL PSYCHOLOGY. Ordark fel. & B.A, Arkansas, 48, M.A, 49; Ph.D.(psychol, sociol), Texas, 52, 61-62. Mem. staff, div. indust. coop, Mass. Inst. Tech, 52-53, instr. psychol, 53; asst. prof, Missouri, 55-57; Trinity (Tex), 58-59; lectr, Texas, 60-62; intern clin. psychol, San Antonio State Hosp, 62-63, clin. psychologist, 63, chief clin. psychologist, 63-67; SR. CLIN. PSYCHOLOGIST, TOOTING BEC HOSP, LONDON, 67- Am. Psychol. Asn; Brit. Psychol. Soc. Sensation and perception; projective testing; testing for brain damage. Publ: Duration of after-sensations of warmth aroused by punctiform stimulation & Long range constraints in the statistical structure of printed English, Am. J. Psychol. Address: c/o Dr. Ralph Burton, Office of Naval Research, Branch Office, London, Box 39, FPO, New York, N.Y. 09510.

BURTON, DR. ROBERT HENDERSON, b. New Orleans, La, Mar. 20, 34; m. 64; c. 3. ECONOMICS. B.B.A, Tulane, 54, M.B.A, 55; Nat. Univ. Mexico, 54; Victoria Col, 56; Ph.D.(econ), La. State, 67. ASST. PROF. ECON, SOUTH FLORIDA, 62- U.S.A.F, 55-57, Capt. Address: Dept. of Economics, School of Business, University of South Florida, Tampa, Fla. 33620.

BURTON, DR. ROGER V, b. Fresno, Calif, Jan. 18, 28. EXPERIMENTAL PSYCHOLOGY. B.Mus, Southern California, 49, A.B, 54, M.S, 55; Ph.D. (human develop), Harvard, 59. Teacher, pub. schs, Calif, 49-50, chmn. dept. music, 52-55; asst. soc. & develop. psychol, Harvard, 56-58, asst. & instr, 58-59; RES. PSYCHOLOGIST, LAB. SOCIO-ENVIRON. STUDIES, NAT. INST. MENT. HEALTH, 59- Lectr, Virginia, 60; summers, asst, Southern California, 50, voc. counsr, col. placement bur, 52-55, counsr. men, summer sch, Harvard, 58. Consult, Am. Soc. Hyg. Asn, 58-59. U.S.A, 50-52. Psychol. Asn; Soc. Res. Child Develop. Socialization process utilizing the experimental design in natural settings; processes involved in the internalization of rules, standards and values. Publ: Antecedents of resistance to temptation in 4-year-old children, Child Develop; The absent father and cross-sex identity, Merrill-Palmer Quart. Behav. & Develop; Generality of honesty reconsidered, Psychol. Rev, 11/63. Address: Lab. of Socio-Environmental Studies, National Institute of Mental Health, Bethesda, Md. 20014.

BURTS, PROF. CHARLES W(ATSON), b. Anderson, S.C, Aug. 28, 07; m. 33; c. 1. PSYCHOLOGY. A.B, Furman, 29; Ph.D, Yale, 39. Instr. psychol, Furman, 33-35, asst. prof, 35-39, assoc. prof, 39-45, prof, 45-46; dean, Meredith Col, 46-48; pres, Shorter Col, 48-53; PROF. PSYCHOL, FURMAN, 53-, CHMN. DEPT, 63-, dean grad. studies, 53-63. Nat. Sci. Found. res. grant, summer inst. teachers of psychol, Michigan, 65. U.S.N.R, 42-45, Lt. Comdr. Social psychology; personality; counseling. Publ: Co-auth, Background factors important in the selection of sea duty officers. Address: Dept. of Psychology, Furman University, Greenville, S.C. 29613.

BURTT, PROF. EVERETT J(OHNSON), JR, b. Jackson, Mich, Aug. 6, 14; m. 40; c. 2. ECONOMICS. A.B, Berea Col, 35; A.M, Duke, 37, Ph.D, 50. Instr, Maine, 39-41; Denver, 41-42; labor mkt. analyst, War Manpower Cmn, 42-43; employ. analyst, Bur. Labor Statist, 46-47; from asst. prof. to assoc. prof. ECON, BOSTON, 47-57, PROF, 57-, chmn. dept. econ, col. lib. arts & grad. sch, 52-56; chmn. all-univ. dept. econ, 56-68. Consult, Greater Boston Econ. Study Cmt, 58-62. Econ. Asn; Indust. Rels. Res. Asn. Labor and industrial economics; regional economic trends; commuting as related to workers' job and residential decisions; development of wage theory; skilled labor shortages in depressed areas. Publ: Labor markets, unions and government policies, St. Martin's, 63; Influence of labor supply on location of electronics firms, Fed. Reserve Bank of Boston, 66; Plant relocation and the core city worker, U.S. Govt. Printing Off, 67. Address: 399 Clapboardtree St, Westwood, Mass. 02090.

BURTT, PROF. HAROLD E(RNEST), b. Haverhill, Mass, Apr. 26, 90; m. 16; c. 1. PSYCHOLOGY. A.B, Dartmouth Col, 11; A.M, Harvard, 13, Ph.D. (psychol), 15. Instr. PSYCHOL, Simmons Col, 15-18; Harvard, 16-18; OHIO STATE, 19-20, asst. prof, 20-22, prof, 22-60, chmn. dept, 39-60, EMER. PROF, 60- Consult. psychologist, Can. Consol. Rubber Co, 18-19; private consult. U.S.A.A.F, 18, Capt. AAAS (v.pres, 49); fel. Psychol. Asn; Psychomet. Soc; Statist. Asn; Mkt. Asn; Bryol. Soc; Ornith. Union; Wilson Ornith. Soc. General and industrial psychology; employment tests; crime detection. Publ: Applied psychology; Psychology of advertising; Psychology of birds, Macmillan, 67. Address: Dept. of Psychology, Ohio State University, 1945 N. High St, Columbus, Ohio 43210.

BURWEN, DR. LEROY S(HELDON), b. Boston, Mass, Nov. 13, 23; m. 48; c. 3. PSYCHOLOGY. Ph.D.(psychol), Chicago, 54. Chief psychologist, Lake County Ment. Hyg. Clin, 48-52; res. psychologist & study dir, U.S. Air Force res. contract, Chicago, 52-54; lectr, Northwestern, 53-54; res. psychologist, Chicago Tribune, 54-57; assoc. social scientist to dept. mgr, Rand Corp. & Syst. Develop. Corp, 57-67; DIR. INSTNL. STUDIES, SAN FRANCISCO STATE COL, 67- U.S.M.C, 44-45. Institutional research; social psychology; personnel selection; consumer research. Publ: Co-auth, Generality of attitudes toward authority and nonauthority figures, Trait judgements from photographs as a projective device & Comparison of test scores and role playing behavior in assessing superior vs subordinate orientation. Address: San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

BUSCH, PROF. HENRY MILLER, b. New York, N.Y, Sept. 24, 94; m. 16; c. 1. SOCIOLOGY. B.S, Columbia, 26, A.M, 27. Asst. prog. group work, sch. appl. soc. sci, CASE WESTERN RESERVE, 27-29, assoc. prof, 29-30, prof. adult ed. & asst. dir, Cleveland Col, 30-36, prof. sociol, 36-68, head div. soc. sci, 36-49, EMER. PROF. SOCIOL, 68- Conducted nation-wide surv. race attitudes children, Fed. Coun. Churches, 25-27; serv. & eval. of YMCA summer camps, N.Y, 25 & 27; exec. dir, Nat. Cmt. Post-War Immigration Policy, 44-45. AAAS; Sociol. Asn; Pop. Asn; Arbit. Asn; Acad. Polit. & Soc. Sci. Current social problems; public opinion; population; family. Publ: Leadership in group work; Conference methods in industry. Address: 2597 Exeter Rd, Cleveland Heights, Ohio 44118.

BUSCH, DR. P(HILLIP) M(AXWELL), Geog, Geol, see 11th ed, Phys. & Biol. Vols.

BUSCHKE, DR. HERMAN, b. Berlin, Germany, Oct. 15, 32; U.S. citizen; m. 57; c. 2. NEUROLOGY, PSYCHOLOGY. B.A, Reed Col, 54; M.D, Western Reserve, 58. Intern med, Albert Einstein Col. Med, 58-59, U.S. Pub. Health Serv. fel. & resident neurol, 59-62; instr, SCH. MED, STANFORD, 62-63, ASST. PROF. MED, 63- U.S. Pub. Health Serv. res. career develop. award, 64-69 & res. grant, 64-70. Consult, Vet. Admin. Hosp, Palo Alto, Calif, 63- Dipl, Am. Bd. Psychiat. & Neurol, 66. AAAS; Psychonomic Soc; Acad. Neurol. Short-term memory; auditory-visual interaction; verbal learning; perception; linguistic and cognitive dysfunction; neuropsychology. Publ: Auditory and visual interaction in immediate memory, J. Psychiat. Res, 62; Retention in immediate memory estimated without retrieval, Science, 63; Types of immediate memory, J. Verbal Learning & Verbal Behav, 66. Address: Division of Neurology, Stanford University School of Medicine, Palo Alto, Calif. 94305.

BUSE, DR. RUEBEN CHARLES, b. U.S, July 8, 32; m. 54; c. 2. AGRICULTURAL ECONOMICS. B.S, Minnesota, 54, M.S, 56; Ph.D.(agr. econ), Pa. State, 59. Asst. AGR. ECON, Minnesota, 54-56; Pa. State, 56-58, instr, 58-59; asst. prof, WISCONSIN, 59-62, assoc. prof, 62-68, PROF, 68- Econ. Asn; Economet. Asn; Agr. Econ. Asn; Int. Asn. Agr. Econ. Agricultural policy, prices, statistics and methodology; agricultural development of underdeveloped countries. Publ: Total elasticity: a prediction device, J. Farm. Econ; Development priorities for Brazilian agriculture, Univ. Rio Grande do Sul, Brazil, 6/65; co-auth, Potentials and feasibility of coops as instruments of market reform, Agr. Econ. Staff Papers, number 15, 67. Address: Dept. of Agricultural Economics, University of Wisconsin, Madison, Wis. 53706.

BUSEY, PROF. JAMES L(YNN), b. Seattle, Wash, Feb. 4, 16; m. 42; c. 1. POLITICAL SCIENCE. A.B, Col. Puget Sound, 40; M.A, Ohio State, 47, Ph.D. (polit. sci), 52. Asst. prof. POLIT. SCI, Wyoming, 49-52; from acting asst. prof. to assoc. prof, COLORADO, 52-63, PROF, 63- Nat. Defense Ed. Act summer fel. Portuguese, Texas, Austin, 62; Fulbright lectr, Sch. Sociol. & Polit, Brazil, 63. U.S.A, 43-46. Polit. Sci. Asn. Latin American, Canadian and United States government and politics; international relations, especially of Western Hemisphere. Publ: Notes on Costa Rican democracy, 62, rev. ed, 63 & 67; Latin American political Guide; Latin America: political institutions and processes, Random, 64. Address: University of Colorado, Cragmor Campus, Colorado Springs, Colo. 80907.

BUSH, DR. CHILTON R(OWLETTE), b. Pleasureville, Ky, July 13, 96. JOURNALISM. A.B, Wisconsin, 25, A.M, 27, Ph.D, 35. Instr. journalism & head dept, Stanford, 34-61; DIR, NEWS RES. CENTER, AM. NEWSPAPER PUBLISHERS ASN, 63- Asn. Ed. Journalism; Asn. Pub. Opinion Res. Media and opinion research; newspaper reporting of public affairs; editorial thinking and writing; art of news communication; newswriting and reporting of public affairs. Publ: Ed, News research for better newspapers, vol. 1, 66, vol. 2. 67, vol. 3, 68. Address: 699 Cabrillo, Stanford, Calif. 94305.

BUSH, PROF. EVERETT H(OMER), b. Westfield, Mass, Apr. 18, 18; m. 43. GEOGRAPHY. B.S.E, Mass. State Teachers Col, Westfield, 42; M.A, Clark, 47, 51-52. From asst. prof. to ASSOC. PROF. GEOG. & CHMN. DEPT. EARTH SCI, WITTENBERG, 47-, CHMN. DEPT. GEOG, 64- U.S.A, 42-46, Capt. Coun. Geog. Ed; Asn. Am. Geog. Economic geography; geography of Anglo-America. Address: 2743 Ironwood Dr, Springfield, Ohio 45504.

BUSH, PROF. GEORGE P(OLLOCK), b. Seattle, Wash, Mar. 3, 92; m. 14; c. 4. PUBLIC ADMINISTRATION. M.A, American Univ, 46, Ph.D, 49; M.B.A, Harvard, 46. Lectr. PUB. ADMIN, AMERICAN UNIV, 47-48, asst. prof, 48-51, assoc. prof, 51-55, prof, 55-56, EMER. PROF, 56- Consult, U.S. Patent Off, 48; U.S. Dept. Navy, 53; U.S. Dept. Army, 56; Nat. Sci. Found, 57; res. found, Ohio State, 60; John I. Thompson & Co, 60-61; American Univ, 61-62. Sig.C, 17-44, Col. Fel. AAAS; Polit. Sci. Asn; sr. mem. Inst. Elec. & Electronics Eng; Document. Inst; Hist. Sci. Soc. Publ: Bibliography on research administration; co-auth, Reprography and copyright law, Am. Inst. Biol. Sci, 64 & Automation and electronics in printing, Spartan, 65. Address: 5415 Beech Ave, Bethesda, Md. 20014.

BUSH, PROF. OAKLEIGH ROSS, b. Aliquippa, Pa, June 3, 23. GEOGRAPHY. A.B, Pittsburgh, 47, M.Litt, 48; dipl, Shakespeare Inst, Eng, 54; M.A.T, Indiana, 64. Addison H. Gibson Found. res. grant, 48; instr. Eng, Carnegie Inst. Tech, 48-49; Indiana, 49-51; asst. prof, Howard Col, 53-55; Fulbright teacher, Rotterdam, Netherlands, 55-56; lectr, Univ. Maryland Overseas Prog, 56-57; prin, Am. Sch. Rotterdam, 60-61; assoc. prof. Eng, Miss. State Col. Women, 61-64; ASST. PROF. GEOG, TEXAS CHRISTIAN, 64- Asn. Am. Geog. Cultural and political geography. Publ: Ed, Over the carnage rose prophetic a voice, Paul Brand, Netherlands, 57. Address: 2501 Mitchell Blvd, Ft. Worth, Tex. 76105.

BUSH, DR. PAUL D(ALE), b. St. Louis, Mo, Feb. 26, 33; m. 55; c. 1. ECONOMICS. A.B, Denver, 54, A.M, 57; Ph.D.(econ), Claremont Grad. Sch, 64. Instr. soc. sci, Denver, 56-57; ECON, Pomona Col, 59-61; asst. prof, FRESNO STATE COL, 61-66, ASSOC. PROF, 66- Instr, Claremont Men's Col, 60; Danforth Assoc, 67- Summers, vis. lectr, Claremont Col, 59 & 61, assoc. prof, Calif. State Col. Hayward, 67. Asn. Asian Studies; Econ. Asn; Economet. Soc; Asn. Evolutionary Econ. Marginalism and institutionalism in labor economics; philosophical foundations of economic theory and policy; economic and political development of Nepal. Address: Dept. of Economics, Fresno State College, Fresno, Calif. 93726.

BUSH, PROF. ROBERT R(AY), b. Albion, Mich, July 20, 20. PSYCHOLOGY. B.S, Mich. State Col, 42; Ph.D.(physics), Princeton, 49. Res. engr, labs, Radio Corp. Am, 42-45; instr. physics, Princeton, 48-49; Soc. Sci. Res. Coun. & Nat. Res. Coun. fels, Harvard, 49-51, lectr. soc. psychol, 51-52, asst. prof. soc. rels, 52-56; assoc. prof. appl. math, N.Y. Sch. Soc. Work, Columbia, 56-58; PROF. PSYCHOL, PENNSYLVANIA, 58-, chmn. dept, 58-64. Vis. prof, Pennsylvania, 56-57; vis. lectr, Columbia, 58; Guggenheim fel, 64-65; summers, mem. inter-univ. seminar, Soc. Sci. Res. Coun, Tufts Col, 51, staff, inst. math. soc. scientists, Dartmouth Col, 53, Stanford, 55, dir. inst. appl. math. soc. sci. res, 57, proj, Coun, 54, mem. conf. decision processes, Ford Found, 52, instr, Harvard, 56, mem. res. proj, Nat. Inst. Ment. Health, 58. Mem. cmt. math. training soc. scientists, Soc. Sci. Res. Coun; fel. eval. bd, Nat. Sci. Found, 56-57, chmn, 58-59. Psychol. Asn; Psychonomic Soc; Psychomet. Soc. Mathematical and experimental psychology; statistics. Address: Dept. of Psychology, 106 College Hall, University of Pennsylvania, Philadelphia, Pa. 19104.

BUSH, DR. WILLIAM R(ALPH), b. Hartford, Conn, May 20, 26; m. 49; c. 2. PSYCHOLOGY. A.B, Brown, 50, M.A, 51; Ph.D.(psychol), Rochester, 54. Res. assoc. psychol, Rochester, 54-56; psychologist, RADIO CORP. AM, 56-57, eng. scientist, 57-59, leader, tech. staff, 59-66, mgr. progs. mgt, INSTRUCT. SYSTS, 66-67, MGR. ED. RES, 67- U.S.A, 44-46. Psychol. Asn; Ed. Res. Asn; Asn. Ed. Data Systs. Visual perception; sensory psychology; human factors; system analysis; computer-aided instruction; application of data processing to education. Publ: Foveal light adaptation as affected by the spectral composition of the test and adapting stimuli, J. Optical Soc. Am. Address: RCA Instructional Systems, 530 University Ave, Palo Alto, Calif. 94301.

BUSHELL, DR. DONALD G(AIR), JR, b. Bellingham, Wash, June 22, 34; m. 58; c. 3. SOCIOLOGY. A.B, Washington (Seattle), 56; M.A, Kent State, 58; U.S.

Steel fel, Washington (St. Louis), 60-62, Ph.D.(sociol. & anthrop), 64. Instr. sociol, Washington (St. Louis), 62-64; ASST. PROF. soc. sci, Webster Col, 64-67; SOCIOL, KANSAS, 67- Vis. asst. prof, North Carolina, Chapel Hill, 67. U.S.A, 58-59. Sociol. Asn. Application of operant behavior principles to socialization agencies, particularly formal education and the institution of the school. Publ: Textbooks and programs: antithesis or synthesis, NSPI J, 65; co-auth, Some effects of back-up reinforcers on reading behavior, J. Exp. Child Psychol, 67; Applying group contingencies to the classroom study behavior of preschool children, J. Appl. Behav. Anal, 68. Address: Dept. of Human Development, University of Kansas, Lawrence, Kans. 66044.

BUSHMAN, PROF. DONALD O(TTO), Geog, see 11th ed, Phys. & Biol. Vols.

BUSHNELL, DAVID SHERMAN, b. Whittier, Calif, Jan. 7, 27; m. 65; c. 3. SOCIAL PSYCHOLOGY, SOCIOLOGY. Ph.B, Chicago, 47, M.A, 50; fel, Washington (Seattle), 51-53. Asst. study dir. indust. sociol, surv. res. center, Univ. Michigan, 53-55; mgt. commun. consult, corp. staff, Int. Bus. Mach. Corp, 55-61; res. sociologist, Stanford Res. Inst, 61-64; consult. res. admin, U.S. OFF. ED, 64-65, DIR. RES. DIV, BUR. RES, 65- Vis. lectr, Washington (Seattle), summer, 55. U.S.N, 45-46. Fel. Sociol. Asn; Ed. Res. Asn; Indust. Rels. Res. Asn. Adult and occupational learning processes; information diffusion and dissemination; evaluation; improvement of effectiveness of public education. Publ: Change and the journeyman electrician: an experimental study in continuing education, Stanford Res. Inst. Proj. IM-4224, 3/63; co-auth, The new technology in education, Stanford Res. Inst. LRPS Report 189, 63; auth, Education's role in economic growth, In: Toward a manpower policy, Wiley, 67. Address: Bureau of Research, U.S. Office of Education, 400 Maryland S.W, Washington, D.C. 20202.

BUSHNELL, DR. JOHN H(EMPSTEAD), b. Minneapolis, Minn, May 3, 22; m. 42; c. 2. ANTHROPOLOGY. A.B, California, 48, Ph.D.(anthrop), 55. Instr. anthrop, Vassar Col, 54-55, res. assoc, Mary Conover Mellon Found, 55-59; DIR. RES, STATE CMN. FOR HUMAN RIGHTS, N.Y, 60- Wenner-Gren Found. Anthrop. Res. grant, summer, 65. U.S.N, 44-46. Fel. Anthrop. Asn; Ethnol. Soc; Soc. Appl. Anthrop; Nat. Asn. Intergroup Rels. Officials; Soc. Study Soc. Prob; Sociol. Asn; N.Y. Acad. Sci. Ethnology of mesoamerica; culture and personality; U.S. culture. Publ: La Virgen de Guadalupe as Surrogate Mother in San Juan Atzingo, Am. Anthrop; Student values; a summary of research and future problems, In: The larger learning: teaching values to college students; Student culture at Vassar, In: The American college. Address: 235 W. 76th St, New York, N.Y. 10023.

BUSHONG, DR. ALLEN D(AVID), b. West Palm Beach, Fla, Mar. 25, 31. GEOGRAPHY. B.A, Miami (Fla), 52; M.A, Florida, 54, Ph.D.(geog), 61. Teaching assoc. GEOG, Florida, 59-60; instr, Bowling Green State, 61-63, asst. prof, 63-66; ASSOC. PROF, SOUTH CAROLINA, 66- Summers, vis. instr, Appalachian State Teachers Col, 60, vis. assoc. prof, Wisconsin, Milwaukee, 61, Nat. Sci. Found. instnl. grant sci. activities, Brit. Honduras, 64. Asn. Am. Geog; Am. Geog. Soc; Asn. Latin Am. Studies. Latin America, especially Central America and Caribbean; population and settlement; historical and cultural geography; history of geography. Publ: Co-auth, Theses on Pan American topics prepared by candidates for doctoral degrees in universities and colleges in the United States and Canada, Pan Am. Union, 62; auth, Doctoral dissertations on Pan American topics accepted by United States and Canadian colleges and universities, 1961-1965: bibliography and analysis, Latin Am. Res. Rev, 67. Address: Dept. of Geography, University of South Carolina, Columbia, S.C. 29208.

BUSKIRK, PROF. RICHARD H(OBART), b. Bloomington, Ind, Jan. 24, 27; m. 47; c. 2. BUSINESS ADMINISTRATION. B.S, Indiana, 48, M.B.A, 49; D.B.A, Washington (Seattle), 55. Instr. MKT, Kansas, 49-53; Washington (Seattle), 53-55; asst. prof, Oklahoma, 55-57; PROF, SCH. BUS, COLORADO, 57- U.S.N, 45-46. Mkt. Asn. Sales management; salesmanship. Publ: Cases and readings in marketing; co-auth, Textbook of salesmanship, McGraw, 63; auth, Principles of marketing, rev. ed, Holt, 66. Address: Dept. of Marketing, University of Colorado School of Business, Boulder, Colo. 80304.

BUSS, PROF. ARNOLD HERBERT, b. Brooklyn, N.Y, Aug. 7, 24; m. 48; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 47; M.A, Indiana, 49, Ph.D.(psychol), 52. Instr. psychol, Iowa, 51-52; chief psychologist, Carter Mem. Hosp, Indianapolis, Ind, 52-57; assoc. prof. PSYCHOL, Pittsburgh, 57-65; PROF, RUTGERS, 65- U.S.A, 43-46. AAAS; Psychonomic Soc. Stimulus generalization; aggression; reinforcement combinations; anxiety; pain tolerance; schizophrenia. Publ: Psychology of aggression; Psychopathology, Wiley, 66; The effect of harm on subsequent aggression, J. Exp. Res. Personality, 66. Address: Dept. of Psychology, Rutgers, The State University, New Brunswick, N.J. 08903.

BUSSEY, COL. DONALD SEDGWICK, A.U.S.(RET), b. Minneapolis, Minn, Sept. 9, 14; m. 45; c. 2. POLITICAL SCIENCE. B.A, Chicago, 37, 38-39; Georgetown, 58-59; George Washington, 60-61, 66. Instr. polit, Princeton, 39-41; secy. gen. staff, U.S. Sixth Army, San Francisco, U.S. Army, 51, plans staff officer, Allied Forces South. Europe, NATO, Italy, 51-54, chief policy planning br, off. dep. chief staff for mil. opers, 54-59, mem. faculty int. rels. & nat. security policy, U.S. Army War Col, 59-67; SR. SPECIALIST NAT. DEFENSE, LEGIS. REFERENCE SERV, LIBRARY CONGRESS, D.C, 67- Lectr. For. Serv. Inst, U.S. Dept. State, 55-58; fel, Inst. World Affairs, San Diego State Col, 67. Mem. Coun. For. Rels, New York, 64-; staff mem, Cmt. Study Mil. Assistance Prog, 58-59. U.S.A, 41-67, Col; Legion of Merit. Inst. Strategic Studies. Organization of the government for national security; national security policy. Publ: Skyfull of cargoliners, Army, 4/62; Proc, Inst. World Affairs, San Diego State Col, 64, 65, 66. Address: 827 Emerald Dr, Alexandria, Va. 22308.

BUSSEY, DR. RUTH CRUIKSHANK, b. Utica, N.Y, Nov. 16, 11; m. 46; c. 4. PSYCHOLOGY. A.B, Elmira Col, 33; A.M, Brown, 34, Ph.D.(psychol), 37. Instr. psychol, Goucher Col, 37-40; Wellesley Col, 40-41; test asst, Psychol. Corp, 41-42, asst. dir, nurse testing div, 46-47, mem. staff, biomech. div, 47-48; test technician, Air Serv. Command, Ohio, 42-43; instr. eng. sci. mgt. war training prog, Miami, 43; spec. consult, U.S. Publ Health Serv, 47-51; RES. CONSULT, 51- Asst. sensory psychol. & physiol. lab, Tufts Col, 47-48. Trustee, Elmira Col, 47-50. U.S.N.R, 44-46. Fel. Psychol. Asn. Electroencephalography; genetic development of behavior in young animals; genetic, physiological and personnel psychology. Publ: Co-auth, Summary of clerical tests; auth, Development of visual size constancy in early infancy; Animal infancy. Address: 1860 Bluebell Ave, Boulder, Colo. 80302.

BUSSING, DR. IRVIN, b. Evansville, Ind, Oct. 13, 98; m. 25; c. 1. ECONOMICS. Ph.D, Columbia, 34. Instr. econ, Columbia, 27-35; asst. prof, Wesleyan, 35-36; dir. res, Savings Banks Trust Co, 36-49; from pres. to CHMN. BD, LOWELL, SMITH & EVERS, INC, 49- Address: 2469 Pacific Ave, San Francisco, Calif. 94115.

BUSWELL, PROF. GUY T(HOMAS), b. Lincoln, Nebr, Jan. 21, 91; m. 17; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, York Col, 13, LL.D, 46; A.M, Chicago, 16, Ph.D.(ed), 20; LL.D, Nebraska, 48. Instr. ed, York Col, 15-18; asst. prof. ed. & psychol, Hamline, 19-20; ED. PSYCHOL, Chicago, 20-23, assoc. prof, 23-27, prof, 27-49; CALIFORNIA, BERKELEY, 49-58, EMER. PROF, 58- Vis. prof, Hopkins, 58-59; asst. to dean sch. ed, California, 63-64, co-dir. training for ed. res, Center Res. Higher Ed, 65-66. Pres, Am. Ed. Res. Asn, 54, exec. secy, 60-62. U.S.A, 18. Psychol. Asn. Eye movement in reading; perception. Publ: Training for educational research, Center for Res. in Higher Ed, Univ. Calif, 66; Non-oral reading; Patterns of thinking in solving problems. Address: 1836 Thousand Oaks Blvd, Berkeley, Calif. 94707.

BUSWELL, JAMES OLIVER, III, b. Milwaukee, Wis, Jan. 12, 22; m. 45; c. 1. ANTHROPOLOGY. B.A, Wheaton Col, 48; M.A, Pennsylvania, 52. Asst. prof. ANTHROP, Shelton Col, 48-54; Wheaton Col, 54-59; Nyack Missionary Col, 60-62; Wheaton Col.(Ill), 62-65; vis. asst. prof, Missouri, St. Louis, 65-66; fel, St. Louis, 66-67; INSTR. ST. JOHN'S (N.Y), 67- Vis. instr, Hunter Col, 62. Mil. Intel, 43-46, 1st Lt. Anthrop. Asn; Soc. Am. Archaeol; Soc. Appl. Anthrop; Asn. Phys. Anthrop; fel. Am. Sci. Affiliation; Philos. Soc. Gt. Brit. Relation of anthropology to foreign missions; problems of cross-cultural communication; interpretation of prehistoric man. Publ: Slavery, segregation and scripture, Eerdmans, 64; Anthropologist and administrator, Practical Anthrop; A creationist interpretation of prehistoric man, In: Evolution and Christian thought today. Address: Dept. of Sociology & Anthropology, St. John's University, Jamaica, N.Y. 11432.

BUTCHER, DR. JAMES NEAL, b. Bergoo, W.Va, Nov. 20, 33; m. 54; c. 3. PSYCHOLOGY. B.A, Guilford Col, 60; M.A, North Carolina, 62, Ph.D. (psychol), 64. Asst. prof. PSYCHOL, MINNESOTA, MINNEAPOLIS, 64-67, ASSOC. PROF, 67- Consult, Cambridge State Sch. & Hosp, 65-; Minn. Reception & Diag. Center, 66- U.S.A, 51-54, Sgt. Psychol. Asn. Objective personality assessment; juvenile delinquency; invasion of privacy; mental retardation. Publ: Ed, Recent developments in the use of the MMPI, McGraw, (in press); auth, Personality tests and the invasion of privacy, Nat. Ed. Asn. J, 56: 51-52; co-auth, Objections to MMPI items, J. Consult. Psychol, 30: 527-534. Address: Dept. of Psychology, University of Minnesota, Minneapolis, Minn. 55455.

BUTCHER, DR. THOMAS EUGENE, b. Biloxi, Miss, Mar. 29, 29; m. 55; c. 3. CLINICAL PSYCHOLOGY. B.M.E, La. State, 50, B.M, 51, M.A, 56, Ph.D, 59. Asst. psychol, La. State, 52-54; trainee, guid. center, La, 54-55; fel. clin. psychol, Southeast La. State Hosp, 55-58, clin. psychologist & dir. psychol. servs, 58-60; psychologists, Charleston Ment. Health Clin, 61-67; LECTR. PSYCHOL, GA. STATE COL, 67- Instr. med. col. & consult, child develop. clin, South Carolina, 61-67; private practice, 61- Psychol. consult, State Dept. Inst, La, 53-55; consult, Hammond Guid. Center, 59-60. Dipl, Am. Bd. Exam. Prfnl. Psychol, 65. Psychol. Asn; Group Psychother. Asn; N.Y. Acad. Sci. Psychotherapy. Address: 1698 Noble Dr. N.E, Atlanta, Ga. 30306.

BUTCHER, DR. WALTER R(AY), b. Riverside, Calif, Aug. 20, 33; m. 58; c. 3. ECONOMICS. B.S, Idaho, 55; M.S, Iowa State, 56, Ph.D.(agr. econ), 62. Economist, econ. res. serv, U.S. Dept. Agr, 58-63, asst. br. chief, 63-64; ASSOC. PROF. agr. econ, WASHINGTON STATE, 64-65, RESOURCE ECON, 65- Consult, President's Cmn. Automation, Tech. & Econ. Growth, 65; civil works prog, Off. Secy. Army, 67-68. U.S.A, 56-58. Econ. Asn; Agr. Econ. Asn. Economics of use and development of natural resources; regional and national growth. Publ: Productivity, technology and employment in U.S. agriculture, U.S. Dept. Labor, 66; co-auth, Irrigation atlas of the state of Washington, Water Res. Center, Washington State Univ, 67; auth, Scope and evolvement of production economics, J. Farm Econ, 67. Address: Dept. of Agricultural Economics, Washington State University, Pullman, Wash. 99163.

BUTKYS, DR. ADOLPH S, b. Kaunas, Lithuania, Apr. 5, 35; nat; m. 65; c. 1. ECONOMICS. B.S, Albright Col, 56; M B.A, Temple, 59; Ph.D.(econ), Pennsylvania, 64. Vis. lectr. econ, LEHIGH, 65, ASST. PROF. econ, 65-67, ECON. & MKT, 67- Pa. Power & Light Co. res. grant, 67-68. Mkt. Asn. Impact made by contemporary marketing activity and its related economic forces upon the United States economy and the consumer, with special concentration on urban and poverty problems. Publ: The meat on Friday ruling and its marketing implications on the fish industry in the U.S.A, 3/67 & A moral, economic and marketing view of the farm dilemma, 6/67, Marian. Address: Dept. of Economics, Lehigh University, Bethlehem, Pa. 18015.

BUTLER, DR. ALFRED JAMES, Psychol, see 10th ed, Soc. & Behav. Vols.

BUTLER, PROF. ARTHUR D, b. Detroit, Mich, Oct. 13, 23; m. 45; c. 3. ECONOMICS. B.A, Manchester Col, 44; M.A, Minnesota, 46; Ph.D.(econ), Wisconsin, 51. Asst. econ. & statist, Wisconsin, 46-49; lectr. ECON, STATE UNIV. N.Y. BUFFALO, 49-52, asst. prof, 52-57, assoc. prof, 57-61, PROF, 61-, asst. to dean sch. bus. admin, 51-52, acting dean, 60-63, chmn. dept. econ, 58-66. Consult, Joint Legis. Cmt. Intergovt. Fiscal Rels, N.Y, 66-68. Econ. Asn; Economet. Soc; Indust. Rels. Res. Asn; Asn. Evolutionary Econ. Labor markets; wages; employment; income distribution. Publ: Labor economics and institutions; Wages, prices, and employment, Current Econ. Comment; Labor costs in the common market, Indust. Rels, 2/67. Address: 151 Washington Highway, Snyder, N.Y. 14226.

BUTLER, DR. BURTRAM B, b. Chicago, Ill, Mar. 17, 27. PSYCHOLOGY. A.B, Miami (Fla), 52; M.A, New Mexico, 53; A.M, Columbia, 54, Ed.D, 55. PRES. BD. TRUSTEES, GRAHAM-ECKES SCHS, 63- Psychol. Asn; Personnel & Guid. Asn. Administration; school management and improvement; measurement and evaluation; guidance and counseling. Address: 300 S. Ocean Blvd, Palm Beach, Fla. 33480.

BUTLER, PROF. DONALD CHARLES, b. Oak Park, Ill, Nov. 30, 32; m. 56; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Xavier (Ohio), 54; fel, Bowling Green State, 55-56, M.A, 56; Nat. Sci. fel, Northwestern, 56-58, Ph.D.(psychol), 58. Instr. PSYCHOL, Dartmouth, 58-60, asst. prof, 60-62; ASSOC. PROF, SAN FERNANDO VALLEY STATE COL, 62- Scholar biostatist, California, Los Angeles, 64-65. Statist. consult, West. Res. Support Center, 67- Psychol. Asn; Pub. Health Asn; Statist. Asn. Learning; quantitative methods; study of minimal social situations. Address: Dept. of Psychology, San Fernando Valley State College, 18111 Nordoff St, Northridge, Calif. 91324.

BUTLER, PROF. DONALD T, b. Sullivan, Ill, Mar. 8, 26; m. 48; c. 2. ECONOMICS. A.B, Western Michigan, 50; M.S, Wisconsin, 51, Ph.D.(econ), 59. Mem. fiscal econ. tech. staff, U.S. Treas, 51-53; from instr. to PROF. ECON, CENT. COL.(IOWA), 53- Lectr, summer sch, Parsons Col, 65; Drake, 66-67. U.S.A.A.F, 44-46, T/Sgt. Econ. Asn; Indust. Rels. Res. Asn. Economic theory; labor and managerial economics. Address: Dept. of Economics, Central College, Pella, Iowa 50219.

BUTLER, DR. EDGAR W, b. Nov. 4, 29; m. 57; c. 2. SOCIOLOGY. B.A, Calif. State Col. Long Beach, 58; M.A, Southern California, 62, Ph.D.(sociol), 65. Res. asst, pop. res. lab, Southern California, 60-61, res. supvr, 61-62, lectr, sociol, 61-63; from instr. to ASST. PROF. SOCIOL. & RES. ASSOC, INST. RES. SOC. SCI, NORTH CAROLINA, 64-, CONSULT, URBAN & REGIONAL STUDIES CENTER, 65- Field dir, Nat. Inst. Ment. Health grant, Pac. State Hosp, 62-63; co-prin. investr. & proj. dir, Nat. Inst. Ment. Health grant, Los Angeles County Probtn. Dept, 63-64, consult, 64-65; co-prin. investr. & co-proj. dir, Off. Econ. Opportunity grant, 65-66; co-prin. investr, Nat. Acad. Sci. grant, 66-; dir, N.C. fund grant, 66- Consult, pop. res. lab, Southern California, 62-66; Study of aging, Calif, 63-64; N.C. Fund, Durham, 66-; Bd. Christian Ed, Presby. Church, Va, 66- Mem. adv. bd, pop. studies center, North Carolina, 65-66. U.S.A.F, 51-53. Asn. Criminology; Sociol. Asn; Pop. Asn; Soc. Study Social Probs. Urban sociology; research methods; community studies; demography; environmental influences on physical and mental health; deviance; police. Publ: Co-auth, The relationship between social developmental performance and mental ability, Am. J. Ment. Deficiency, 9/64; Anomia and eunomia: a methodological evaluation of Srole's anomia scale, Am. Sociol. Rev, 6/66; Disengagement of the aged population and response differentials in survey research, Soc. Forces, 9/67. Address: Dept. of Sociology, University of North Carolina, Chapel Hill, N.C. 27514.

BUTLER, DR. EDWARD S(YDNEY), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

BUTLER, DR. GLENN ALLEN, Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

BUTLER, PROF. JAY G(RANT), Sociol, see 10th ed, Soc. & Behav. Vols.

BUTLER, DR. JEFFREY E(RNEST), Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

BUTLER, DR. JOEL ROBERT, b. Pawhuska, Okla, June 14, 24; m. 45. PSYCHOLOGY. B.A, San Francisco State Col, 58, M.S, 59; fel, La. State, 59-61, Ph.D.(psychol), 62. Assoc. psychol, La. State, summer, 61, instr, 61-62, asst. prof. 62-65, assoc. prof, 65-66; vis. assoc. prof, Georgia, 66-67; DEAN ACAD. AFFAIRS, MACON JR. COL, 67- Consult. forensic psychologist, E.La. Hosp, Jackson, 61-65; res. psychologist, collab. child develop. prog, Nat. Inst. Neurol. Diseases & Blindness, New Orleans, La, 63-65; consult. psychologist, Vols. in Serv. to Am, D.C, 65-66. U.S.N.R, 43-44; U.S.A, 44-46, Sgt. Psychol. Asn; Anthrop. Asn. Personality correlates of forensic behavior; personality-cultural correlates in leadership and problem solution; generality of relationship of deviant responses to personality characteristics. Publ: Co-auth, Psychoanalytically oriented therapy, In: An introduction to clinical psychology, 3rd ed, Ronald, 66, The deviation hypothesis: a review of the evidence, In: Response set in personality assessment, Aldine, 67 & An investigation into the McNaughten rules of right from wrong for the act of murder, Corrective Psychiat. & J. Soc. Ther, 67. Address: Macon Junior College, Macon, Ga. 31201.

BUTLER, PROF. JOHN M, b. Hector, Minn, May 12, 17; m. 38; c. 2. PSYCHOLOGY. B.S, Minnesota, 39, Ph.D.(ed. psychol), 49. Instr. psychol, CHICAGO, 47-49, asst. prof. PSYCHOL, ED. & HUMAN DEVELOP, 49-54, assoc. prof, 54-61, PROF, 61- U.S.A.A.F, 42-43; U.S.A, 43-46. AAAS; Psychol. Asn. Personality; learning; psychometrics. Publ: Co-auth, Quantitative naturalistic research; A psychological model in personality testing, Ed. & Psychol. Measurement; co-auth, Changes in self-concepts and ideal concepts consequent upon client-centered counseling, Psychother. & Personality Change. Address: Dept. of Psychology, University of Chicago, Chicago, Ill. 60637.

BUTLER, DR. JOSEPH H(ERBERT), b. Oyster Bay, N.Y, Feb. 20, 26; m. 49; c. 4. ECONOMIC GEOGRAPHY. B.C.E, Cornell, 47; Nat. Res. Coun. fel, Chile, 56-57; Ph.D.(geog), Columbia, 60. Engr, Westinghouse Elec. Int. Co, N.Y, 47-49, proj. engr, 49-51; lectr. geog, Columbia, 54-56, asst. to dean eng, 57-59; ASSOC. PROF. GEOG, Mich. Col. Min. & Tech, 59-63; STATE UNIV. N.Y, BINGHAMTON, 63- Lectr, Columbia, 57-59. U.S.N.R, 52-53, Lt. AAAS; Asn. Am. Geog; Soc. Eng. Ed. Water resources; land use and conservation; theory of production; industrialization and resource utilization in developing areas, principally Latin America. Publ: Manufacturing in the Concepcion Region of Chile: present position and prospects for future development. Address: 508 Marcella St, Endicott, N.Y. 13760.

BUTLER, DR. MARY (MRS. CLIFFORD LEWIS, III), b. Media, Pa, June 23, 03; m. 42; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Vassar Col, 25; Paris, 25; A.M, Radcliffe Col, 30; Ph.D.(anthrop), Pennsylvania, 36. Asst. AM. SECT, UNIV. MUS, PENNSYLVANIA, 30-35, RES. ASSOC, 35- Instr, Hunter Col, 37-38; lectr, Bryn Mawr Col, 42-43. Am. Philos. Soc. grant, archaeol. surv, Alta Verapaz, Guatemala, 37, 40, Quiché, 41. Dir, Hudson Valley Archaeol. Surv, 39-40. Mem. archaeol. expeds, W.Va, 30; Piedras Negras, Guatemala, 32; West. Pa, 36; South. Ill, 37; Alta Verapaz, Guatemala, 39, 40; Hudson Valley, N.Y, 39, 40; Quiché, Guatemala, 41. Fel. Anthrop. Asn; Soc. Archaeol; Soc. Geog. & Hist, Guatemala. Maya archaeology; northeastern Unites States archaeology. Publ: Three archaeological sites in Somerset County, Pennsylvania. Address: 550 Kirk Lane, Media, Pa. 19063.

BUTLER, PROF. ORTON C(ARMICHAEL), b. Millersburg, Ohio, June 9, 23; m. 51; c. 2. PHYSICAL & CULTURAL GEOGRAPHY. A.B, Oberlin Col, 48; M.A, Clark, 51; Ohio State, 61-62. Res. analyst mil. geog, Engr. Intel, U.S. Dept. Army, 51-60; ASST. PROF. GEOG, MEMPHIS STATE, 60- U.S.A, 42-46. Asn. Am. Geog; Coun. Geog. Ed. Terrain and strategic area analysis; climatology; intraregional variability of temperatures; classification of microclimates. Address: Dept. of Geography, Memphis State University, Memphis, Tenn. 38111.

BUTLER, DR. ROBERT A(LLAN), Biopsychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

BUTLER, DR. V(INCENT) JOHN, b. Toronto, Ont, Feb. 1, 30; m. 55; c. 2. PSYCHIATRY, PSYCHOLOGY. M.D, Toronto, 55, D.Psych, 59. R. Samuel McLaughlin traveling res. fel, 60-61; lectr. psychol. & psychiat, Queen's (Ont), 61-62, asst. prof. psychiat, 62-64; assoc. prof, Toronto, 66-68; CHIEF DEPT. PSYCHIAT, SCARBOROUGH CENTENARY HOSP, 68- Am. Fund Psychiat. res. fel, 61-62. Minister of Health gold medal psychiat, 59. Fel, Can. Royal Col. Physicians, 63. Can. Med. Asn; Can. Psychiat. Asn; Royal Soc. Med. Community and social psychiatry. Publ: Collaboration between psychologists and psychiatrists in psychotherapy, Can. Psychiat. Asn. J, 12: 66-69; Depression, a review of the syndrome, Mod. Med. of Can, 2/68. Address: Dept. of Psychiatry, Scarborough Centenary Hospital, 2867 Ellesmere Rd, West Hill, Ont, Can.

BUTLER, DR. WILLIAM F(RANK), b. Arcade, N.Y, Dec. 17, 17; m. 40; c. 1. ECONOMICS. A.B, Cornell, 37; Ph.D.(econ), Virginia, 42. Prin. economist, War Prod. Bd, 42-45; sr. economist, McGraw-Hill Pub. Co, 45-51; consult. economist, CHASE-MANHATTAN BANK, 51-56, V.PRES, 56-, economist, Rockefeller Off, 51-56. Publ: Co-auth, Making capitalism work; auth, Business needs for venture capital. Address: Apt. 22H, 215 E. 68th St, New York, N.Y. 10021.

BUTLER, DR. WILLIAM ROBERT, b. Robinson, Ill, May 10, 26; m. 51; c. 4. HIGHER EDUCATION. B.S.Ed, Ohio, 50, M.A, 51; fel, Kansas, 51-52, Ed.D, 56. Asst. human rels, Kansas, 52-53, asst. dean men, 53-57; asst. prof. & dean men, Wisconsin-Milwaukee, 57-59; asst. prof. human rels, Ohio, 59-65, dean men, 59-62, dean students, 62-65; PROF. ED. & V.PRES. STUDENT AFFAIRS, MIAMI (FLA), 65- Res. psychologist, U.S. Air Force, Kans, summer 52. Consult, N.Cent. Asn. Cols. & Sec. Schs, Ill, 60-; nat. res. proj, Am. Bar Asn, 63-65; South. Asn. Cols. & Schs, 65- Mem, Gov. Student Scholar. & Loan Cmn, Fla, 65-70. U.S.N.R, 44-46. Psychol. Asn; Personnel & Guid. Asn. General administration and student personnel administration. Publ: Student revolt for freedoms, J. Inst. Democratic Ed, 5-6/66; co-auth, Should college student personnel administrators be given tenure?, J. Col. Student Personnel, 7/67; auth, The college student of today and tomorrow, Vital Speeches of Day, 2/68. Address: 7765 S.W. 139th Terrace, Miami, Fla. 33158.

BUTTERFIELD, DR. OLIVER M(cKINLEY), Sociol, see 10th ed, Soc. & Behav. Vols.

BUTTERFIELD, PETER H(AMILTON), b. Moscow, Idaho, Oct. 3, 22; m. 47; c. 5. OPERATIONS ANALYSIS. B.E, Yale, 43. Chem. engr, Carbide & Carbon Chems. Co, W.Va, 43-51, proj. leader statist. methods, 51-53, opers. res, 53-55; sr. opers. analyst, STANFORD RES. INST, 55-63, MGR. INDUST. OPERS. RES, 63- U.S.N, 44-46. AAAS; Opers. Res. Soc; Inst. Mgt. Sci; Inst. Chem. Eng. Operations research; chemical engineering; electronics. Address: 627 Georgia Ave, Palo Alto, Calif. 94306.

BUTTERS, DR. NELSON M, b. Cambridge, Mass, May 7, 37; m. 57; c. 3. PSYCHOLOGY. A.B, Boston, 60; M.A, Clark, 62, Ph.D.(psychol), 64. Fel. physiol. psychol, Nat. Inst. Ment. Health, 64-66; asst. prof. psychol, Wright State, 66-67; RES. PSYCHOLOGIST, BOSTON VET. ADMIN. HOSP, 67-; ASST. PROF. NEUROL, SCH. MED, BOSTON, 67- Lectr, Northeastern, 67-; Wellesley Col, 67-; Nat. Inst. Ment Health res. fel. psychol, summer 67. Psychol. Asn. Neuropsychology; developmental psychology. Publ: Co-auth, The continuity-discontinuity controversy in paired-associate learning, J. Psychol, 62; auth, The effect of LSD-25 on perserverative tendencies in rats, Psychopharmacologia, 66; co-auth, The effect of caudate and septal nuclei lesions on resistance to extinction and delayed alternation performance in monkeys, J. Comp. & Physiol. Psychol, 68. Address: Psychology Unit, Boston Veterans Administration Hospital, 150 S. Huntington Ave, Boston, Mass. 02130.

BUTTERWORTH, DR. JOHN, b. Manchester, Eng, July 23, 26; m. 54; c. 4. INFORMATION SCIENCE, OPERATIONS RESEARCH. B.A, Cambridge, 47, M.A, 50; M.B.A, California, Berkeley, 63, Ph.D.(bus), 68. Prod. mgr, Fine Wool Fabrics Ltd, Ireland, 50-58, dir, 58-60; assoc. acct, California, Berkeley, 63-67; ASST. PROF. OPERS. RES. & INDUST. ENG, HOPKINS, 67- Opers. Res. Soc; Inst. Mgt. Sci; Acct. Asn; Nat. Asn. Acct. Information models and their implications for the design of management information systems. Address: 7801 Ruxwood Rd, Ruxton, Md. 21204.

BUTTIGLIERI, DR. MATTHEW W(ILLIAM), b. Boston, Mass, July 12, 25; m. 51. CLINICAL PSYCHOLOGY. Ph.D, Washington (St. Louis), 55. Clin. psychologist, VET. ADMIN. HOSP, Jefferson Barracks, Mo, 54-56, counseling psychologist, Brockton, Mass, 56-60, CHIEF COUNSELING PSYCHOL. SERV, SEPULVEDA, 60- U.S.A.A.F, 43-45. Psychol. Asn. Measures of

psychological deficit;anxiety measures; criteria for therapeutic prognosis and change; driving behavior. Publ: Driving record of neuropsychiatric patients, J. Appl. Psychol, 67; Temporal relationship between automobile accidents and psychiatric hospitalization, Perceptual & Motor Skills, 67. Address: Veterans Administration Hospital, Sepulveda, Calif. 91343.

BUTTRICK, PROF. JOHN (ARTHUR), b. Rutland, Vt, Sept. 12, 19; m. 59; c. 2. ECONOMICS. B.S, Haverford Col, 41; A.M, Yale, 48, Ph.D, 50. Instr. ECON, Northwestern, 49-50, asst. prof, 50-53; assoc. prof, MINNESOTA, MINNEAPOLIS, 53-58, PROF, 58-, chmn. dept, 61-63, dir. grad. studies, 67-68. Fund Adv. Ed. fel, 52-53; Ford faculty fel, 60-61; Fulbright lect, Univ. Tokyo, 63-64; Minn-Agency Int. Develop. Proj, Bogota, Colombia, 64-66, chief of party, 65-66. Civilian Pub. Serv, 41-45. Econ. Asn; Economet. Soc. Economic theory; economic development; welfare economics. Publ: Co-auth, Economic development; Theories of economic growth; Producer, consumer and social choice. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55414.

BUTTS, PROF. W(ILLIAM) MARLIN, b. Vandalia, Mo, Mar. 15, 04. SOCIAL SCIENCE. B.S, Boston, 39; A.M, N.Y. Univ, 47; Ed.D, Western Reserve, 59. Mem. surv. boy gangs, Godfrey Hyams Found, Mass, 31-32; dir. Cent. Square Center & young men's activities, Soc. Centers Coun, Boston, 32-38; exec. dir, Christian Activities Coun, Hartford, Conn, 38-47; prof. soc. sci, Schauffler Col, 47-54; ASSOC. PROF. community studies & soc. ethics, OBERLIN COL, 54-66, COUNSELING, 66- Lectr, Mass. Conf. Soc. Work, 39-40; Cleveland Col, Western Reserve, 47-59. Chmn. group work div, Coun. Soc. Agencies, Hartford, Conn, 44-46; mem. bd. dirs, Inst. Gestalt Ther, 65-67. Soc. Group Psychother. & Psychodrama; Asn. Humanistic Psychol; fel. Sociol. Asn; Nat. Asn. Soc. Workers. Address: Division of Psychological Services, Oberlin College, Oberlin, Ohio 44074.

BUTZ, DR. DALE EVERETT, b. Albion, Ind, Sept. 8, 21; m. 50; c. 3. AGRICULTURAL ECONOMICS. B.S, Purdue, 43; M.S, Cornell, 48; Ph.D.(agr. econ), Minnesota, 50. Assoc. prof. agr. econ, Mich. State, 50-58; vis. res. prof. agr, Harvard Sch. Bus, 58-59; dir. econ. res, Ill. Farm Supply Co, 59-62, dir. res, FS Serv, Inc, 62-66; SECY. MKT, ILL. AGR. ASN, 67- U.S.A, 43-46, Capt. Farm Econ. Asn. Publ: Changing structure of the livestock and meat industry; Cost of drying milk in Minnesota plants-1950. Address: Illinois Agricultural Association, Bloomington, Ill. 61701.

BUTZ, DEAN EARL L(AUER), b. Albion, Ind, July 3, 09; m. 37; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Purdue, 32, Ph.D.(agr. econ), 37; Chicago, 36. Asst. agr. econ, Purdue, 33-35; res. economist, Fed. Land Bank, Louisville, Ky, 35-36; instr. agr. econ, Purdue, 37-39, asst. prof, 39-42, assoc. prof, 42-46, prof. & head dept, 46-54; asst. secy. agr, U.S. Dept. Agr, 54-57; DEAN AGR, PURDUE, 57- Res. economist, Brookings Instn, 43-44; res. consult, Nat. Bur. Econ. Res, N.Y, 44-45. Agr. Econ. Asn.(v.pres, Farm Econ. Asn, 49-50); Soc. Farm Mgr. & Rural Appraisers (v.pres, 48); Acad. Polit. Sci. Agricultural finance and policy; farm organization. Publ: The production credit system for farmers, Brookings Inst, 48. Address: School of Agriculture, Purdue University, Lafayette, Ind. 47907.

BUTZ, DR. OTTO W, b. Ploesti, Roumania, May 2, 23; U.S. citizen. POLITICAL & SOCIAL SCIENCE. B.A, Toronto, 47; Sanxay, Proctor & Soc. Sci. Res. Coun. fels, Ph.D.(polit), Princeton, 53. Asst. prof. polit. sci, Swarthmore Col, 54-55; polit, Princeton, 55-60; soc. sci. ed, Random House, Inc, 60-61; prof. interdisciplinary studies in soc. sci, San Francisco State Col, 61-67; PROF. GOVT. & ACAD. V.PRES, SACRAMENTO STATE COL, 67- Bicentennial preceptorship, Princeton, 58-60; assoc, Danforth Found, 65-67. Polit. Sci. Asn. The analysis of contemporary cultural changes in advanced industrial societies and the problems and opportunities these create for the individual, the community, and especially, organized education. Publ: Modern German political theory, Random, 55; The unsilent generation, Rinehart, 58; To make a difference: a student look at America—its values, its society and its systems of education, Harper, 67. Address: Office of Academic Vice President, Sacramento State College, 6000 Jay St, Sacramento, Calif. 95819.

BUTZ, PROF. WILLIAM T(AYLOR), b. Wilkinsburg, Pa, Feb. 2, 19; m. 45; c. 4. AGRICULTURAL ECONOMICS. B.S, Pa. State, 47, M.S, 49, Ph.D. (agr. econ), 51; summer, Chicago, 50. Asst. prof. AGR. ECON, PA. STATE, 51-56, assoc. prof, 56-61, PROF, 61- Consult, Nat. Dairy Coun, 58-U.S.A.A.F, 41-45, T/Sgt. Agr. Econ. Asn. Agricultural marketing research, especially with regard to processing and distribution operations of food firms. Publ: Co-auth, Distribution of fluid milk through resale outlets, 65, The frozen dairy product industry in Pennsylvania, 67 & Processing costs in the mushroom canning industry, 67, Pa. State Univ. Address: Dept. of Agricultural Economics, 201 Weaver Hall, Pennsylvania State University, University Park, Pa. 16802.

BUTZER, PROF. KARL WILHELM, b. Mulheim-Ruhr, Germany, Aug. 19, 34; nat. Can; m. 59; c. 4. GEOGRAPHY, GEOLOGY. B.Sc, McGill, 54, M.Sc, 55; Dr. rer. nat, Bonn, 57. Res. assoc. geog, Acad. Sci. & Lit, Germany, 57-59; asst. prof, Wisconsin, 59-62, assoc. prof, 62-66; PROF. ANTHROP. & GEOG. CHICAGO, 66- Asn. Am. Geog; Can. Asn. Geog; German Quaternary Asn. Geomorphology; Pleistocene geography and ecology; paleoclimatology. Publ: Environment and archeology, Aldine, 64; co-auth, Desert and river in Nubia, Univ. Wisconsin, 68; auth, Quaternary stratigraphy and climate in the Near East, Bonner Geog. Abhandl, 58. Address: Departments of Anthropology & Geography, University of Chicago, Chicago, Ill. 60637.

BUXBAUM, DR. DAVID C, b. New York, N.Y, July 16, 33; m. 54; c. 4. LAW, POLITICAL SCIENCE. B.A, N.Y. Univ, 54; L.L.B, Michigan, 59; M.A, Washington (Seattle), 62, sr. Fulbright fel, 65-66, Soc. Sci. Res. Coun. fel, 66-67, Ph.D.(polit. sci, Far East), 68. Res. assoc. LAW, LAW SCH, WASHINGTON (SEATTLE), 67-68, ASSOC. PROF, 68- U.S.A, 54-56. Polit. Sci. Asn; Bar Asn; Asn. Asian Studies. Chinese law; law and society; public law; comparative law & government. Publ: Co-auth, Family law and customary law in Asia: a contemporary legal perspective, M. Nijhoff's N.V, Netherlands, 68; auth, Preliminary trends in the development of the legal institutions of communist China and the nature of the criminal law, Int. & Comp. Law Quart, 62; co-auth, Traditional and modern legal institutions in Asia and Africa. Address: Law School, University of Washington, Seattle, Wash. 98105.

BUXBAUM, DR. EDWIN C(LARENCE), b. Milwaukee, Wis, Mar. 19, 03; m. ANTHROPOLOGY. B.A, Wisconsin, 25; M.A, Pennsylvania, 64, Ph.D. (anthrop), 67. Res. chemist, Newport Co, Wis, 25-31; E.I. du Pont de Nemours & Co, 31-61; lectr. soc. anthrop, Pennsylvania, 65-66; ASST. PROF. ANTHROP, DELAWARE, 67- Fel. Anthrop. Asn; assoc. Royal Photog. Soc. Cultural change; ethnic and minority groups; Greeks and other Mediterranean peoples. Address: 2-C Thomas Dr, Monroe Park, Wilmington, Del. 19807.

BUXELL, PROF. JOHN O(SCAR), Pub. Health Eng, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

BUXTON, PROF. CLAUDE E, b. Cromwell, Iowa, Nov. 15, 12; m. 38; c. 4. EDUCATIONAL PSYCHOLOGY. A.B, Nebr. Wesleyan, 33; A.M, Oregon, 35; Ph.D.(exp. psychol), Iowa, 37. Asst, Oregon, 34-35; Iowa, 35-37, instr. PSYCHOL, 37-38, asst. prof, 42-46; res. assoc, Swarthmore Col, 38-39; instr, Northwestern, 29-42, assoc. prof, 46-49; PROF, YALE, 49-, chmn. dept, 51-66, dir. div. soc. sci, 61-63. Fel. Psychol. Asn; Soc. Exp. Psychol; Psychonomic Soc. Human learning; teaching process; academic achievement motivation. Publ: Co-auth, Improving undergraduate instruction in psychology, Macmillan, 52; auth, College teaching, a psychologist's view, Harcourt-Brace, 57; Evaluation of three factors that might influence responses to tests of academic achievement motivation, Brit. J. Ed. Psychol, 37: 241-247. Address: Dept. of Psychology, Yale University, New Haven, Conn. 06510.

BUZBY, DR. DALLAS E(YRE), b. Altoona, Pa, July 30, 89; m. 15; c. 1. PSYCHOLOGY. A.B, Pennsylvania, 13, Ph.D.(psychol), 30; S.T.B, Phila. Divinity Sch, 16. Asst. prof. PSYCHOL, St. Lawrence, 30-41; instr, Valley Forge Mil. Acad. Jr. Col, 42-43, assoc. prof, 43-46; prof. & head dept, BEAVER COL, 46-61, EMER. PROF, 61- Fel. Psychol. Asn. Personality studies; religious experience; research with college subjects to attempt to relate extra-sensory-perception results with religious and psychological variables. Publ: Clinical psychology and religious experience, In: Clinical psychology, Univ. Pennsylvania, 31; Subject attitude and score variance in ESP tests, 3/67 & Precognition and a test of sensory perception, 6/67, J. Parapsychol. Address: 307 Park Ave, Swarthmore, Pa. 19081.

BUZZARD, PRES. ROBERT G(UY), Geog, see 10th ed, Soc. & Behav. Vols. Latest known address: 320 Broadmor Dr, Tempe, Ariz. 85281.

BUZZOTTA, DR. V. R(ALPH), b. St. Louis, Mo, Mar. 18, 31; m. 53; c. 2. PSYCHOLOGY. A.B, Washington (St. Louis), 52, Ph.D.(psychol), 56. Clin. psychol. trainee, Vet. Admin, Mo, 53-56, res. clin. psychologist, hosp, Jefferson Barracks, 56-57, St. Louis, 57-58; STAFF DIR, PSYCHOL. ASSOCS, INC, 58- Lectr, Washington (St. Louis), 56-; consult. psychol, State Dept. Pub. Welfare, Ill, 58-61. AAAS; Psychol. Asn. Advertising and marketing research; management and sales development. Publ: Co-auth, Dimensional strategies, Prentice-Hall, 68. Address: 8220 Delmar Blvd, St. Louis, Mo. 63124.

BYE, PROF. RAYMOND T(AYLOR), b. Philadelphia, Pa, Jan. 30, 92; m. 22; c. 3. ECONOMICS. A.B, Swarthmore Col, 14; A.M, Harvard, 15; Ph.D, Pennsylvania, 18. Instr. ECON, PENNSYLVANIA, 16-20, asst. prof, 20-28, prof, 26-62, EMER. PROF, 62- Econ. Asn. Economic theory; welfare economics; economics text-books. Publ: Principles of economics; Social economy and the price system; co-auth, Applied economics. Address: 506 Glenwood Ave, Moylan, Pa. 19065.

BYERLY, PROF. KENNETH RHODES, b. Chicago, Ill, June 10, 08; m. 33; c. 3. JOURNALISM. B.B.A, Minnesota, 30; M.A, North Carolina, 32. Instr. geog, North Carolina, 31-33; mgr. res. bur, Asn. Commerce, Milwaukee, Wis, 36-38; exec. mgr, Chamber Commerce, Racine, Wis, 38-40; owner & publisher, Thermopolis Independent Record, Wyo, 40-47; Lewistown Daily News, Mont, 47-57; lectr. JOURNALISM, NORTH CAROLINA, CHAPEL HILL, 57-58, assoc. prof, 58-65; PROF, 65- Owner & publisher, Glendive Daily Ranger, Mont, 52-57; consult, Copley Newspapers, 62-; various newspapers & press orgn. Newspaper advertising trends; newspaper growth trends in metropolitan areas. Publ: Community journalism, Chilton, 61. Address: School of Journalism, University of North Carolina, Chapel Hill, N.C. 27514.

BYERS, DOUGLAS S(WAIN), b. Newton Center, Mass, Jan. 15, 03; m. 29. ANTHROPOLOGY, ARCHAEOLOGY. M.A, Harvard, 28. Asst. dean records, Harvard, 29-31, asst. dir, Peabody Mus, 31-33; R.S. Peabody Found, 33-38, dir, 38-68. AAAS; Am. Acad. Arts & Sci; Anthrop. Asn; Geol. Soc; Soc. Archaeol. (ed, 39-46; pres, 46-47). Archaeology of northeastern North America. Publ: The Debert archaeological project; relationships, Quaternaria, 66; The Tehuacan Valley: the area and people & Climate and hydrology, In: The prehistory of Tehuacan, Texas, Vol. I. Address: Phillips St, Andover, Mass 01810.

BYERS, PROF. GEORGE BOYD, b. Calhoun, Ill, June 29, 00; m. 25; c. 3. AGRICULTURAL ECONOMICS. B.S, Illinois, 28, univ. fel, 28-30, M.S, 30; Gen. Ed. Bd. fel, Iowa State Col, 40-41, Ph.D.(agr. econ), 48. From assoc. economist to ECONOMIST & PROF. AGR. ECON, KENTUCKY, 30- Farm mgt. consult, Food & Agr. Orgn. & Coun. Econ. & Cultural Affairs, Inc, 55-56; Farm Anal. Groups Inc, Ky, 62- Farm Econ. Asn; Int. Asn. Agr. Econ. Farm management; farm work simplification. Address: 148 Arcadia Park S, Lexington, Ky. 40503.

BYERS, DR. JOANNA, b. Columbus, Ohio, Sept. 29, 13. PSYCHOLOGY. B.A, Miami (Fla), 49, M.S, 50; Ph.D.(psychol), Cornell, 54. Psychologist & dir, Palm Beach County Guid. Center, 54-58; private practice, 58-64; PSYCHOLOGIST, Marshall, Hardin, Tama County Ment Health Center, 64-66; COPPER COUNTRY MENT. HEALTH CENTER, 66- Address: P.O. Box 47, Houghton, Mich. 49931.

BYERS, DR. JOE LAPHAM, b. New York, N.Y, Aug. 6, 29; m. 54; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Wisconsin, 51, M.S, 58, Ph.D.(ed. psychol), 61. Asst. prof. ED. PSYCHOL, California, Berkeley, 61-66; ASSOC. PROF. MICH. STATE, 66- U.S.A, 51-53, 1st Lt. AAAS; Psychol. Asn; Ed. Res. Asn. Role of hypothesis behavior in complex tasks such as concept attainment. Publ: Strategies and learning set in concept attainment, Psychol. Reports, 63; co-auth, The role of hypothesizing in the facilitation of concept attainment, J. Verbal Learning & Verbal Behav, 8/67; auth, Verbal and concept learning, Rev. Ed. Res, 12/67. Address: 2171 Butternut Dr, Okemos, Mich. 48864.

BYERS, PROF. NORMAN F(REDERIC), b. Arkansas City, Kans, June 21, 26; m. 50; c. 4. ECONOMICS. B.A, Northwestern, 50, M.A, 54. Asst. baking indust. econ. study, Northwestern, 52-54, instr. bus. statist, 54-59; ASST. PROF. econ, Houston, 59-63; ECON. & STATIST, LA. POLYTECH, 63- U.S.N, 44-46. Econ. Asn. Industrial organization; antitrust policy; statistics; philosophy of science. Publ: Economic, logical and mathematical systems, Soc. Res. Address: Dept. of Economics, Louisiana Polytechnic Institute, Ruston, La. 71271.

BYLUND, DR. H(ORACE) BRUCE, b. Santaquin, Utah, July 24, 20; m. 44; c. 8. RURAL SOCIOLOGY. B.S, Brigham Young, 50, M.S, 51; Ph.D.(rural sociol), Pa. State, 54. Asst. rural sociol, Pa. State, 51-54, res. assoc, 54, asst. prof, 54-60, ASSOC. PROF, 60-64; ASSOC. PROF. SOCIOL, UTAH STATE, 64- U.S.N.R, 42-45. Sociol. Asn; Rural Sociol. Soc; Mkt. Asn. Consumer behavior, particularly concerning food; social aspects of developmental change. Publ: Social and psychological factors associated with acceptance of new food products, Pa. Agr. Exp. Sta, 12/63; Predicting adoption of new food products by the optical coincidence method, Rural Sociol, 6/64; The human factor and changes in water usage patterns, Water Resources Res, 3rd Quarter, 66. Address: Dept. of Sociology, Utah State University, Logan, Utah 84321.

BYNDER, DR. HERBERT, b. Brooklyn, N.Y, June 7, 35; m. 63. SOCIOLOGY. B.A, Wilkes Col, 56; fels, Columbia, 60-62, M.P.H, 60, Ph.D.(sociol), 66. Res. assoc. med. sociol, Mt. Sinai Hosp, New York, 62-64; ASST. PROF. sociol, COLORADO, 64-66, SOCIOL, PHYS. MED. & REHAB, 66- Consult, Am. Soc. Health Asn, New York, 60-64; Colo. State Dept. Pub. Health, 65- AAAS; Sociol. Asn; Pub. Health Asn. Sociology of medicine, rehabilitation and science; large-scale organizations; public health. Publ: Physicians choose psychiatrists: medical social structure and patterns of choice, J. Health & Human Behav, 65; Sociology in a hospital: a case study in frustration, In: Sociology in action, Dorsey, 66; co-auth, Facilities providing services to drug users, Am. J. Pub. Health, 67. Address: Dept. of Sociology, University of Colorado, Boulder, Colo. 80302.

BYRD, DR. ELBERT MUNCIE, JR, b. Wythe, Co, Va, Dec. 26, 23; m. 45; c. 2. POLITICAL SCIENCE. B.S, American Univ, 53, M.A, 54, Ph.D.(govt), 59; Hopkins, 54-55. Instr. Am. govt, Hopkins, 54-55; instr. GOVT. & POLIT, MARYLAND, 57-60, asst. prof, 60-64, ASSOC. PROF, 64- Legis. asst, Congressman Carlton R. Sickles, 66. U.S.A.A.F, 40-51. Political theory; public law. Publ: Treaties and executive agreements in the United States; Judicial process in Maryland; Constitutional limits on international agreements in the space age, Northwestern Univ. Law Rev, 3-4/61. Address: 5009 40th Place, Hyattsville, Md. 20781.

BYRD, DR. EUGENE, b. Cincinnati, Ohio, Oct. 20, 23; m. 58; c. 1. PSYCHOLOGY. B.A, Cincinnati, 50; M.A, Fla. State, 51, Ph.D.(clin. psychol), 55. Asst, Inst. Med. Res, Ohio, 46-50; psychol, Fla. State, 50-53; dir, guid. center, Fla. Indust. Sch. for Boys, 53-54; clin. psychologist & admin. asst, Dade County Child Guid. Clin, 54-58; res. dir, div. gerontol, med. sch, Miami (Fla), 57-62, clin. asst. prof. psychol, 59-61; acting dir. center aging res, Nat. Insts. Health, 61, behav. sci. consult. & scientist adminstr, Nat. Inst. Child Health & Human Develop, 61-62; PSYCHOL. CONSULT, 62- Consult, Montanari Clin. Sch. for Emotionally Disturbed Children, Hialeah, Fla, 58- Sig.C, U.S.A, 42-45. Psychol. Asn. Developmental analysis; research design and program planning in developmental, social and mental health areas. Publ: Validity and constancy of choices in a sociometric test, Sociometry; Clinical validity of the Bender Gestalt Test with children: a developmental comparison of children judged well-adjusted and children needing psychotherapy, J. Proj. Tech; Taste sensitivity in aging, Geriatrics. Address: 3810 Loquat, Miami, Fla. 33133.

BYRD, PROF. ROBERT O(AKES), b. Tacoma, Wash, Jan. 7, 16; m. 56. POLITICAL SCIENCE. A.B, Col. Puget Sound, 38; M.A, American Univ, 39; M.A, Columbia, 45; Ph.D.(int. rels), Chicago, 55. Instr. Col. Puget Sound, 40; soc. worker, State Dept. Soc. Security, Wash, 40-41; relief officer, Am. & Brit. Friends Serv. Cmts, Germany, 46-48; instr. govt. & int. rels, N. Park Col, 49-51; Hugh S. Magill prof. govt. hist. & sci. & chmn. dept, Ill. Wesleyan, 55-58; PROF. POLIT. SCI, N.PARK COL, 58- Fulbright vis. prof, Makerere Univ. Col, Uganda, 60-61. Assoc. dir. Int. Seminars Prog, Brit. & Am. Friends Serv. Cmts, Pa, 51-53 & dir. Int. Seminars. W. Africa, Togo, 64-65. Am. Polit. Sci. Asn; African Studies Asn; Can. Polit. Sci. Asn; Int. Polit. Sci. Asn; Int. Studies Asn. Publ: Quaker ways in foreign policy, Univ. Toronto, 60; Characteristics of candidates for election in a country approaching independence: the case of Uganda, Midwest J. Polit. Sci, 2/63; A portrait of leadership in a new nation, Queens Quart, winter 63. Address: Route 1, Box 166 Rockland Lane, Libertyville, Ill. 60048.

BYRNE, SISTER ANTONIA MARIE, b. St. Joseph, Mo, Jan. 18, 14. SOCIOLOGY. A.B, Col. Holy Names, 35; summer, Catholic Univ, 46; M.A, St. Louis, 48, Ph.D.(sociol), 61. Dean women, COL. HOLY NAMES (CALIF), 48-52, financial adminstr, 52-54, instr. econ, 55-58, assoc. prof. SOCIOL, 61-67, PROF, 67-, CHMN. DEPT, 66- Sociol. Asn; Econ. Asn. Social organization; family sociology. Publ: An evaluation of a Catholic family life survey. Address: Dept. of Sociology, College of Holy Names, Oakland, Calif. 94619.

BYRNE, PROF. DONN, b. Austin, Tex, Dec. 19, 31; m. 53; c. 2. PSYCHOLOGY. A.B, Fresno State Col, 53, M.A, 56; Ph.D.(psychol), Stanford, 58. Instr. PSYCHOL, San Francisco State Col, 57-59; asst. prof, TEXAS, 59-62, assoc. prof, 62-66, PROF, 66-, DIR. EXP. PERSONALITY PROG, 65-, chmn. clin. training cmt, 61-62, asst. chmn. dept. psychol, 64-66. Vis. prof, Stanford, 66-67. Consult, Vet. Admin, 60- AAAS; Psychol. Asn; Psychonomic Soc. Experimental approaches to personality and social psychology. Publ: Co-auth, Personality change, 64 & Psychology: an introduction to a behavioral science, 61, 2nd ed, 66, Wiley; author, An introduction to personality: a research approach, Prentice-Hall, 66. Address: Dept. of Psychology, University of Texas, Austin, Tex. 78712.

BYRNE, DR. JOHN F(RANCIS), b. Northampton, Mass, Nov. 11, 24; m. 48; c. 5. PSYCHOLOGY. A.B, Massachusetts, 50; Ph.D, Tennessee, 56. Instr. psychol. & clin. psychologist, Marquette, 56-57; chief psychologist & admin. dir, OAK RIDGE MENT. HEALTH CENTER, 57-65, DIR, 65- Consult, Univ. Tennessee, 58-, from assoc. prof. to prof, 64- Cert. in clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. U.S.A, 43-46. AAAS; Psychol. Asn. Psychotherapy; projective techniques; reactions to stress. Address: Oak Ridge Regional Mental Health Center, 84 New York Ave, Oak Ridge, Tenn. 37830.

BYRNE, PROF. RICHARD HILL, b. Lancaster, Pa, Aug. 3, 15; m. 54; c. 4. PSYCHOLOGY. A.B, Franklin & Marshall Col, 38; M.A, Columbia, 47, Ed.D, 52. Teacher, high schs, Pa, 40-41; counsr, Allegany County Bd. Ed, Md, 48-50; dir. guid, serv, State Dept. Ed, N.H, 50-51; assoc. prof. COUNSR. ED, MARYLAND, 51-57, PROF, 57- Consult, U.S. Dept. Labor, 63-67; U.S. Vet. Admin, 63- Pres, Am. Bd. Counseling Serv, Inc, 58-63; dir. east. regional res. center, Interprfnl. Res. Cmn. Pupil Personnel Serv, 63- U.S.A, 41-46, Capt. Psychol. Asn; Personnel & Guid. Asn. Education; counseling psychology and functions of school counselors; pupil services. Publ: The school counselor, Houghton, 63; co-auth, Guidance-personnel work: future tense, Teachers Col. Press, 66; auth, For elementary schools: a human development specialist?, Ed. Leadership, 67. Address: College of Education, University of Maryland, College Park, Md. 20740.

BYRNES, PROF. AGNES MARY HADDEN, b. Chicago, Ill, Sept. 10, 79. SOCIAL SCIENCE. A.B, Northwestern, 15; A.M, Columbia, 16; Ph.D, Bryn Mawr Col, 20. Instr. & asst. prof, Carnegie Inst. Tech, 19-24; from instr. to assoc. prof. sociol. & anthrop, HUNTER COL, 25-50, presoc. work specialization, 37-41, prof. SOCIOL. & ANTHROP, 50-51, chmn. dept, 44-51, EMER. PROF, 51- Analyst, U.S. Children's Bur, D.C, 25-27; mem. grad. dept. soc. work & soc. res. develop. fund, Bryn Mawr Col, 57-67; adv. bd, Hammond Mus, N.Y, 58-67. Education in field of social work; child labor. Publ: Industrial home work in Pennsylvania; Social abstracts. Address: 150 E. 50th St, New York, N.Y. 10022.

BYRNES, PROF. KENDAL C, b. Chicago, Ill, June 27, 10; m. 47; c. 5. POLITICAL SCIENCE. Ph.B, Chicago, 33, J.D, 35, Ph.D.(polit. sci), 52. Asst. to Judge Advocate Gen, U.S. Dept. Army, 50-52; asst. prof. polit. sci. & instr. law, Loyola (Ill), 52-56; PROF. LAW, JOHN MARSHALL LAW SCH, 56- U.S.A, 41-45. Polit. Sci. Asn; Am. Soc. Int. Law. International law and relations; constitutional law and jurisprudence; corporation and criminal law; torts. Address: 232 Hickory, Park Forest, Ill. 60466.

BYRON, PROF. WILLIAM G(LENN), b. Denver, Colo, Jan. 28, 23; m. 49; c. 4. GEOGRAPHY. A.B, California, Los Angeles, 48, M.A, 51; univ. fel, Syracuse, 53-54, Ph.D.(geog), 54. From asst. prof. to PROF. GEOG, CALIF. STATE COL. LOS ANGELES, 54- Nat. Sci. Found. grant statist. geog, Northwestern, 61; cartography, Washington, 63, archae-geog. res, Nayarit, Mex, 66-68; spec. res, chancellor's off, Calif. State Cols, 67. U.S.A.A.F, 42-46. Asn. Am. Geog; Am. Geog. Soc. Latin America; population geography; cartography. Publ: Co-auth, Patterns of the land; auth, Dotting the dot map with steel drill stamps, Prfnl. Geogr; Use of the recording densitometer in measuring density from dot maps, Surv. & Mapping. Address: Dept. of Geography, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

BZOCH, DR. KENNETH, Speech Path, Audiol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

C

CABE, PROF. J(OHN) CARL, b. Electra, Tex, Feb. 12, 19; m. 49; c. 2. LABOR ECONOMICS. B.A, Illinois, 44, M.A, 46, fel, 51-52, Ph.D, 52. Instr. labor econ, Purdue, 47-50; asst. prof, Kansas, 52-57; vis. assoc. prof, Illinois, 57-58; assoc. prof. econ, Kentucky, 58-62; state cmnr. labor, Kentucky, 62-67; PROF. ECON, KENTUCKY, 67- ASST. DEAN GRAD. SCH, 68- Labor arbitrator; mem. econ. develop. cmn, Ky, 62-67; Gov. Cmn. Status Women, 64-66; pres, Int. Asn. Govt. Labor Officials, 66-67. Econ. Asn; Indust. Rels. Res. Asn. Governmental techniques in the settlement of labor disputes; labor law. Address: 305 Malabu Rd, Lexington, Ky. 40502.

CABEEN, DR. CHARLES W(ILLIS), b. St. Louis, Mo, June 29, 18; m. 40; c. 2. PSYCHOLOGY. B.A, California, Los Angeles, 41, M.A, 50, Ph.D.(psychol), 55. Sr. clin. psychologist, Metrop. State Hosp, 50-58; INSTR. PSYCHOL. & CHMN. DEPT, CERRITOS COL, 58- Private practice, 58- U.S.N.R, 44-46, Lt.(jg). Psychol. Asn. Group and individual psychotherapy; projective testing techniques. Address: 701 Poinsettia Ave, Corona Del Mar, Calif. 92625.

CABOT, DR. P(HILIPPE) SIDNEY de Q(UETTEVILLE), b. N.Z, July 18, 00; nat; m. 32; c. 3. MANAGEMENT. B.A, New Zealand, 25, M.A, 26, dipl. ed, 26, soc. sci, 30; Carnegie Corp. traveling fel, Columbia & Harvard, 30-32; M.A, Columbia, 31; M.A, Harvard, 35, Ph.D.(psychol), 36; Calif. Inst. Tech, 46-47. From spec. instr. to asst. prof. psychol, Simmons Col, 36-43; confidential war assignment, Wash, D.C, 43-44; nat. dir. personnel res, Rexall Drug Co, Inc, Mass, 44-46, employ. & develop, Calif, 46-48; personnel consult, Booz, Allen & Hamilton, Ill, 48-50; head personnel div, Stevenson, Jordan & Harrison, Eng, 50-51; consult, Robson, Morrow & Co, 51-52; MGT. CONSULT. & DIR, P.S. CABOT & CO, LTD, 52- Exec. dir, Cambridge-Somerville Youth Study, Mass, 35-41, res. assoc. & consult, 41-45; spec. lectr, univs, U.S, Can. & Eng, 45-50. Consult, 41-44. Dipl, Am. Bd. Exam. Prfnl. Psychol. King's Medal Gt. Brit. Fel. AAAS; Am. Psychol. Asn; Soc. Res.

Child Develop; Brit. Psychol. Soc; fel. Inst. Dirs. Gt. Brit. Psychotherapy; selection and appraisal of executives; management audits; organization and planning management development. Publ: Relationship between characteristics of personality and physique in adolescents; Juvenile delinquency, a critical annotated bibliography. Address: P.S. Cabot & Co, Ltd, 37-41 Bedford Row, London, W.C. 1, Eng.

CABOTAJE, PROF. FELISBERTO VILORIA, b. Narvacan, Philippines, Sept. 23, 02; U.S. citizen; m. 40; c. 1. SOCIAL SCIENCE, EDUCATIONAL ADMINISTRATION. A.B, Minnesota, Minneapolis, 30; M.A, Northwestern, 36; B.D, Garrett Sch. Theol, 36; B.S.E, Union Col, Manila, 40; Lisle Fel. grant, summer 55; Reynolds fel. & grants, 57-59; Ed.D, American Univ, 62. Prof. Christian ed. & chmn. dept, Union Theol. Sem, 37-41; gen. secy. relig. ed, Methodist Church, Philippines, 42-44, exec. secy. bd. ed, 44-59, minister, N.Y, 59-62; dean, Claflin Col, 62-64; PROF. SOC. SCI. & CHMN. DIV, BETHUNE-COOKMAN COL, 64- Lisle fel. & grant, summer 62. Sociol. Asn. Selected factors conditioning the Filipino life in Chicago; education in the Philippines during the period of the Republic, 1946-1956; Governments in Southeast Asia. Publ: Guidebook for Christian workers, 55 & Youth planbook, 55, Pangel & Sons. Address: 1396 Sunland Rd, Daytona Beach, Fla. 32019.

CABRAL, PROF. ANNITA DE CASTILHO, b. Novo Horizonte, Brazil, July 11, 10. PSYCHOLOGY. B.S.(psychol) & B.S.(soc. sci), São Paulo, Brazil, 39, Ph.D, 45; fel, Smith Col, 41; scholar. & M.S.S, New Sch. Soc. Res, 43; fel, Ecole Libre des Hautes Etudes, New York, 43. Asst. prof. sociol, SÃO PAULO, 39-45, PROF. ED. PSYCHOL, INST. ED, 39-, PROF. PSYCHOL, FACULTY PHILOS, SCI. & LETTERS, 47-, asst. prof. 45-47. Dir, Jornal Brasileiro de Psicologia, 64- Am. Psychol. Asn; Brazilian Psychol. Asn. (pres, 58-62); Brazilian Soc. Adv. Sci. Applied social psychology; drawing of the street by children; comparison of plays and games preferred in 1940 and 1960; social psychology; perception and social perception; memory; play and education; national character. Publ: Nilton Campos (1898-1963), 64, Diferenças de personalidade entre alunos dos vários cursos de uma faculdade de filosofia, ciencias e letras mediante o inventario de Bernreuter, 65 & Psicanálise e Gestalt-semelhanças?, 66, Jornal Brasileiro de Psicologia. Address: 212 Rua Iquitos, Alto de Pinheiros, São Paulo, SP, Brazil, S.A.

CACAVAS, DR. PETER D, b. Aberdeen, S.Dak, Mar. 21, 28; m. 57; c. 3. PSYCHOLOGY. B.S, North. State Col, 50, M.S, 56; Ed.D.(psychol), North Dakota, 61. Instr. PSYCHOL, North Dakota, 60-61; asst. prof, BALL STATE, 61-64, ASSOC. PROF, 64- Asst. prof, Iowa, summer 61. U.S.A, 50-52. Psychol. Asn; Personnel & Guid. Asn. Social psychology, including interpersonnal dynamics, mass behavior, and attitudes. Publ: Co-auth, The effects of shading on anxiety on the draw a man test, J. Consult. Psychol, 62. Address: Dept. of Psychology, Ball State University, Muncie, Ind. 47306.

CACIOPPO, DR. ANTHONY J(OSEPH), b. Akron, Ohio, Oct. 13, 23; m. 49; c. 2. ENGINEERING PSYCHOLOGY. B.S, Kent State, 48, M.A, 49; Ph.D. (sociol, sociol-psychol), Iowa, 54. Fulbright scholar, Rome, 51; process engr, Ravenna Arsenal, Ohio, 52-53; staff eng. psychologist, Goodyear Aircraft Corp, Akron, 53-61, mgr, Life Sci. Dept, 61-63; CHIEF SCIENTIST MIL. SYSTS, FOR. TECH. DIV, AIR FORCE SYSTS COMMAND, 63- Consult, U.S. Dept. Defense & Inst. Defense Analyses, 61- U.S.A, 42-45. AAAS; Psychol. Asn. Aviation and social psychology; systems engineering. Address: 2771 Varsity Dr, Fairborn, Ohio 45324.

CACOULLOS, THEOPHILOS, b. Pachna, Cyprus, Apr. 5, 32; m. 60; c. 3. STATISTICS. Dipl. math, Nat. Univ. Athens, 54; M.A, Columbia, 60, Ph.D. (statist), 62. Teacher math, Greek Gym, Limassol, Cyprus, 55-57; res. assoc. statist, Stanford, 61-62; dir. dept. statist, Govt. Cyprus, 62-63; asst. prof. statist, Minnesota, Minneapolis, 63-65; OPERS. RES, N.Y. UNIV, 65-66, ASSOC. PROF, 66- Mem. Econ. Planning Cmt, Cyprus, 62-63. Inst. Math. Statist; Statist. Asn. Statistical decision theory and multivariate statistical analysis; national statistical organization. Publ: Comparing Mahalanobis distances, Sankhya, 3/65; co-auth, art, In: International symposium in multivariate analysis, Academic, 66; auth, Characterizations of normality, Ann. Math. Statist, 12/67. Address: Dept. of Industrial Engineering & Operations Research, New York University, University Heights, Bronx, N.Y. 10453.

CACY, DR. JAMES ALBERT, b. Bristow, Okla, Feb. 28, 33; m. 59; c. 3. ECONOMICS. B.S, Okla. State, 59, M.S, 60; Ph.D.(econ), California, Berkeley, 66. FINANCIAL ECONOMIST, FED. RESERVE BANK KANSAS CITY, 64- U.S.A, 53-55. Econ. Asn. Monetary theory and policy; financial markets; mortgage market. Address: Dept. of Economics, Federal Reserve Bank of Kansas City, 925 Grand, Kansas City, Mo. 64106.

CADE, DR. ALEX JAMES, b. Louise, Miss, Dec. 31, 28; m. 51; c. 3. COUNSELING PSYCHOLOGY. B.S, Tennessee State, 52, M.S, 53; U.S. Off. Naval Res. grant, Indiana, 55-56; Ph.D.(psychol, counseling), Mich. State, 63. Teacher, pub. schs, 53-55 chief psychologist, Mich. Dept. Correction, 56-63; asst. prof. soc. sci, MICH. STATE, 63-65, ASSOC. PROF. PSYCHOL. & DIR. UPWARD BOUND PROG, 65- Diagnostician, Mich. Dept. Voc. Rehab, 59-; consult, Mich. Asn. Christian Churches, 60-63; Ingham County Hosp. Rehab. Center, 60-65; U.S. Off. Econ. Opportunity, 66- Psychol. Asn. Social psychology; education administration. Publ: Functions of a psychologist within the correctional setting, Proc. 89th Cong. Am. Correctional Asn, 58; A proposed inmate orientation program, Am. J. Corrections, 59; The relationship among the factors of counselor-client social class similarity, empathetic understanding similarity, J. Employ. Counseling, 67. Address: Dept. of Psychology, 43 Snyder Hall, Michigan State University, East Lansing, Mich. 48823.

CADORET, DR. R. J, b. Scranton, Pa, Mar. 28, 28; m. 50; c. 3. PHYSIOLOGY, PSYCHOLOGY. A.B, Harvard, 49; M.D, Yale, 53. Intern, Robert Packer Hosp, Sayre, Pa, 53-54; res. assoc, parapsychol. lab, Duke, 56-58; asst. prof. physiol, Manitoba, 58-64, assoc. prof. physiol. & psychol, 64-65; resident PSYCHIAT, WASHINGTON (ST. LOUIS), 65-68, ASST. PROF, 68- Med. C, U.S.A.F, 54-56, Capt. Psychophysiology of emotion; statistics and research methodology. Address: Dept. of Psychiatry, Washington University School of Medicine, Barnes & Renard Hospitals, St. Louis, Mo. 63130.

CADY, PROF. GEO(RGE) J(OHNSON), Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

CAFFEY, DR. T(HOMAS) PATRICK, JR, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

CAFFREY, DR. C(LETUS) BERNARD, b. New Salem, Pa, July 17, 32; m. 66; c. 1. EXPERIMENTAL PSYCHOLOGY, PSYCHOSOMATIC MEDICINE. B.A, St. Vincent Col, 55; M.A, Catholic Univ, 63, Ph.D.(psychol), 66. Res. psychologist, Ga. Dept. Pub. Health, 63-65; ASST. PROF. PSYCHOL, CLEMSON, 66- Spec. consult, heart disease control prog, U.S. Pub. Health Serv, 65- AAAS; Psychol. Asn; Heart Asn. Psychological factors in coronary heart disease; attitude change as a function of time and as a function of participation in a public health program. Publ: Psychological factors in coronary heart disease—a review of empirical research, Milbank Quart, 4/67; Personality and behavior patterns related to the prevalence of coronary heart disease, Dissertation Abstracts, 5/67; Reliability and validity of behavioral measures in a study of coronary heart disease, J. Chronic Disease,(in press). Address: Social Sciences Dept, Clemson University, Clemson, S.C. 29631.

CAFFREY, DR. JOHN G(ORDON), b. Arlington, Mass, Sept. 4, 22; m. 57; c. 5. EDUCATIONAL PSYCHOLOGY. A.B, California, 44, Ph.D.(ed), 53; fel, Washington (Seattle), 44-45, M.A, 48. Teacher, high sch, Calif, 46-47, 48-53; instr. drama & Eng, Sacramento Col, 47-48; ed. statistician, Los Angeles County Schs, 53-55; asst. dir, Los Angeles Off, Ed. Testing Serv, 55-58; dir. res. Palo Alto Unified Schs, 58-62; lectr. ed, Grad. sch. ed, Harvard, 62-63; prog. dir. ed, Syst. Develop. Corp, 63-66; DIR. CMN. ADMIN. AFFAIRS, AM. COUN. ED, 66- Instr, univ. col, Southern California, 54-55; vis. asst. prof, full time, summer sessions, Stanford, 57-62. Consult, 58- Psychol. Asn; Psychomet. Soc; Asn. Ed. Data Systs.(pres, 63-64); Ed. Res. Asn. Application of modern technology to the improvement of academic administration; decision process in academic institutions. Publ: Auding, Rev. Ed. Res; co-auth, Statistical reasoning and procedures, C.E. Merrill, 65 & Computers on campus, Am. Coun. Ed, 67. Address: American Council on Education, 1785 Massachusetts Ave. N.W, Washington, D.C. 20036.

CAGAN, PROF. LEO D(AVID), b. Chicago, Ill, Jan. 31, 23; m. 52; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Wisconsin, 43; A.M, Chicago, 47, Ph.D.(polit. sci), 57; Fulbright fel, U.K, 49-50. Instr. GOVT, SAN FRANCISCO STATE COL, 50-57, asst. prof, 57-61, ASSOC. PROF, 61-, chmn. dept, 61-66. Res. & prog. officer, UN Tech. Asst. Admin, 53-54. U.S.A, 43-46, Sgt. Polit. Sci. Asn; Soc. Pub. Admin. Comparative social systems, government and public administration; interdisciplinary analysis of social change. Publ: Recent transformations in civil service Whitleyism, Pub. Personnel Rev; To promote the general welfare, In: Development of American ideals and institutions. Address: 10997 Magdalena Rd, Los Altos Hills, Calif. 94022.

CAGAN, PROF. PHILLIP D(AVID), b. Seattle, Wash, Apr. 30, 27; m. ECONOMICS. Ph.D.(econ), Chicago, 54. Res. assoc, Nat. Bur. Econ. Res, 53-55; asst. prof. ECON, Chicago, 55-58; assoc. prof, Brown, 58-60; vis. assoc. prof, Carnegie Inst. Tech, 61; PROF, Brown, 62-65; COLUMBIA, 65-U.S.N.R, 45-46. Econ. Asn. Monetary aspects of economic fluctuations. Publ: The monetary dynamics of hyperinflations; Determinants and effects of changes in the money stock, Nat. Bur. Econ. Res, 65. Address: Dept. of Economics, Columbia University, New York, N.Y. 10016.

CAGE, DR. WILLIAM E(DWIN), b. Rockford, Ill, Sept. 21, 40; m. 62; c. 1. ECONOMICS. B.A, Rockford Col, 63; Ph.D.(econ), Virginia, 66. ASST. PROF. ECON, Dickinson Col, 66-67; WAKE FOREST, 67- Guest lectr, U.S. Army War Col, 67. Econ. Asn; Econ. Hist. Asn. Monetary theory and policy; American economic history; effects of government welfare programs. Address: Dept. of Economics, Wake Forest University School of Business, Winston-Salem, N.C. 27109.

CAGGIANO, PROF. NICHOLAS J, b. Brooklyn, N.Y, May 5, 21; m. 52; c. 4. SOCIOLOGY. A.B, Long Island, 48; A.M, St. John's (N.Y), 50. Instr. SOC. & POLIT. SCIS, NIAGARA, 50-56, asst. prof, 56-61, ASSOC. PROF, 61-Med.C, U.S.A, 42-45. Sociol. Asn; Soc. Appl. Anthrop; Acad. Polit. & Soc. Sci; Nat. Coun. Family Rel. Family; social problems; industrial sociology; criminology. Address: 4889 Fifth St, Lewiston, N.Y. 14092.

CAGLE, PROF. A(LVAH) P(ENN), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 62.

CAHEN, DR. ALFRED, b. Wilkinsburg, Pa, Mar. 22, 07; m. 39; c. 2. ECONOMICS. B.A, Ohio State, 27; M.A, Columbia, 29, Ph.D.(econ), 31. Statistician, Int. Asn. Garment Mfrs, 34-35; economist, U.S. Bur. Labor Statist, 36-37; textile analyst, U.S. Bur. Census, 37-42; apparel economist, War Prod. Bd, 42-45; textile economist, Dun & Bradstreet, Inc, 45-49; gen. mgr, Qual. Home Prods. Co, 49-54; CONSULT, Frank Lang & Assocs, 54-59; SCH. & LIBRARY DIV, GROLIER SOC, INC, 59- Lectr, City Col. New York, 31-32; St. John's (N.Y), 34-35; Dana Col, 34-35; Polytech. Inst. Brooklyn, 35; Catholic Univ, 36-37; Howard, 36-41. U.S.A, 43. Statist. Asn. Publ: Statistical analysis of American divorce; Long term trends in nation's buying habits, Domestic Commerce; contrib, Textile markets. Address: 109 Carthage Rd, Scarsdale, N.Y. 10583.

CAHILL, DR. EDWARD E, b. Memphis, Tenn, Jan. 3, 31; m. 57; c. 5. SOCIOLOGY, DEMOGRAPHY. B.S, St. Mary's Col.(Minn), 52; M.A, Notre Dame, 57; fel, Catholic Univ, 58-60, Ph.D.(sociol), 65; Pennsylvania, 65-66. Instr, high sch, Ill, 52-54; instr. SOCIOL, VILLANOVA, 57-58, ASSOC. PROF, 60- Assoc, human resources center, inst. environ. studies, Pennsylvania, 65-; Morgan State Col-Univ. Pennsylvania Coop. Proj, 66-67. U.S.A, 54-56. AAAS; Sociol. Asn; Acad. Polit. & Soc. Sci; Soc. Study Social Probs. Interracial relations, particularly in effect on education development; sociology of education and population trends as they affect the educational processes.

Publ: Occupational mobility in a tri-racial isolate, Catholic Univ, 65; co-auth, Counselor institutes, human resources center, Univ. Pennsylvania, 66. Address: Dept. of Sociology, Villanova University, Villanova, Pa. 19085.

CAHILL, DEAN FRED V(IRGIL), b. Dayton, Wash, Feb. 13, 16; m. 52. POLITICAL SCIENCE. B.A, Nebraska, 37, M.A, 38; Ph.D.(govt), Yale, 41. Instr. polit. sci, Oregon, 41-42, asst. prof, 46-47; govt, Yale, 47-51; prof, Massachusetts, 53-55, dean col. arts & sci, 55-60; DEAN sch. gen. studies, N.C. STATE, 60-63, LIB. ARTS, 63- U.S.A, 42-46, Mil Intel, 51-53, Lt. Col. Polit. Sci. Asn. American Constitutional law and history. Publ: Judicial legislation; co-auth, Constitution, cases and comment. Address: 4801 Yadkin Dr, Raleigh, N.C. 27609.

CAHILL, DR. HUGH EDWARD, b. St. Paul, Nebr, Mar. 17, 28; m. 49; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Brown, 52; M.S, Yale, 54, Ph.D. (psychol), 57. Asst. prof. psychol, Pomona Col, 56-59; ENG. PSYCHOLOGIST, LOCKHEED MISSILES & SPACE CO, 60- U.S.N, 46-48. Human engineering; psychomotor skills. Publ: Role of memory in the acquisition of concepts, J. Exp. Psychol, 3/60; jr. auth, Detecting out-of-tolerance conditions with meter and digital displays, 2/65 & sr. auth, Effectiveness of side-looking radar in simulated orbit as a function of reference data support, 6/67, Human Factors. Address: Lockheed Missiles & Space Co, P.O. Box 504, Sunnyvale, Calif. 94088.

CAHILL, PROF. JAMES M(ICHAEL), b. New York, N.Y, Dec. 29, 09; m. 39; c. 4. ECONOMICS. B.S, Manhattan Col, 33; M.A, Columbia, 38. Assoc. prof. econ. & head dept, Manhattan Col, 36-42; economist, U.S. Bur. Labor Statist, 42; dir. res, Grand Union Co, 42-46; assoc. prof. ECON, MANHATTAN COL, 46-63, PROF, 63-, head dept, 46-63. Lectr, Fordham, 48-49; summers, Econ. in Action fel, Case Inst, 59 & vis. prof. case method prog, Harvard Grad. Sch. Bus, 62. Econ. Asn; Acad. Polit. Sci. Business cycles; security analysis. Publ: Co-auth, Principles of economics; H.I. Philipson Co-business case, Intercollegiate Case Clearing House, Boston, Mass, 62. Address: Dept. of Economics, Manhattan College, New York, N.Y. 10471.

CAHILL, NEIL, S.J, b. Woonsocket, S.Dak, May 5, 23. ECONOMICS, PHILOSOPHY. B.S, Creighton, 43; A.B, St. Louis, 48, M.A. & Ph.L, 50; S.T.L, 58; Laval, 55; Munich, 57; St. Andrä Col, Austria, 57-58; Hopkins, 58-60; Georgetown, 60-62. Instr, high sch, Wis, 50-53; ASST. PROF. ECON, CREIGHTON, 62-, JESUIT COUNSR, COL. BUS. ADMIN, 63-, dir. Wareham Hall, 62-65. Econ. Asn. History of economic thought; American economic history and development; economic theory; labor economics; business ethics; comparative economic systems. Address: Dept. of Economics, Creighton University, Omaha, Nebr. 68131.

CAHN, FRANCES TRIEST, Econ, Sociol, see 10th ed, Soc. & Behav. Vols.

CAHNMAN, PROF. WERNER J(ACOB), b. Munich, Germany, Sept. 30, 02; nat; m. 43. SOCIOLOGY. Munich & Berlin, 22-27; D.V, Munich, 25, Ph.D, 27. Res. assoc, Berlin Chamber Indust. & Commerce, 28; Inquiry Cmn. German Parliament, 28-30; exec. secy, Bavarian regional off, Cent. Union German Jews, 30-34; prisoner, Dachau Concentration Camp, Germany, 38; lectr. & vis. prof, Fisk, Vanderbilt & Atlanta, 43-45; res. assoc, Nat. Jewish Welfare Bd, 46; vis. prof, dept. sociol, Brooklyn Col, 47; res. fel, Viking Fund, 48-50; sr. analyst, eval. staff, Int. Broadcasting Serv, Dept. State, 51-53; exec. secy, Conf. Jewish Soc. Studies, 54-56; lectr, Hunter, 56-59; Yeshiva, 58-62; assoc. prof. SOCIOL, RUTGERS, 61-66, PROF, 66- Res. fel, Julius Rosenwald Fund, 43-44; Wenner-Gren Found. fel, 48-49; Conf. Jewish Mat. Claims against Germany, 54-55; mem. faculty, New Sch. Soc. Res, 63- Mem. bd, Jewish Info. Bur, Inst. Mediterranean Affairs; child guid. & black Jews cmt, Fedn. Jewish Philanthopies N.Y; chmn, Am. Cmt. Dachaw. Award, Diamond Jubilee Fund, 40-41. Sociol. Asn; Polit. Sci. Asn; Soc. Study Soc. Probs. Race and culture contacts; urban sociology; sociological theory. Publ: Frontiers between East and West in Europe, Geog. Rev; Intermarriage and Jewish life; Sociology and history, 64; Voelker and Rassen im Urteil der Jugend, Munich, 65; Ferdinand Toennies on pure applied and empirical sociology, Chicago, 68. Address: Dept. of Sociology, Rutgers, The State University, Newark, N.J. 08903.

CAHOON, DR. DELWIN DUANE, b. St. Cloud, Minn, May 18, 34; m. 56; c. 2. PSYCHOLOGY. B.A, Minnesota, 56, Ph.D.(psychol), 64. Chief counseling psychol. & res, Vet. Admin. Hosp, St. Cloud, Minn, 63-65; asst. prof. PSYCHOL, St. John's (Minn), 64; clin. asst. prof, Minnesota, 64-65; ASST. PROF, AUBURN, 65- Consult, Tuskegee Vet. Admin. Hosp, 65-; Lee County Headstart Prog, 65- Psychol. Asn; Asn. Adv. Behav. Ther. Experimental learning psychology; learning psychology applied to human behavior modification. Publ: A comparison of the effectiveness of verbal reinforcement applied in group and individual interviews, J. Counseling Psychol, 65; co-auth, Effectiveness of counterconditioning as a function of the interval between cessation of operant I and reinforcement of operant II, Psychol. Reports, 67; auth, Symptom substitution and the behavior therapies, Psychol. Bull, 68. Address: Dept. of Psychology, Auburn University, Auburn, Ala. 36830.

CAHOON, DR. RICHARD L(AURENCE), b. Quincy, Mass, May 9, 39; m. 61; c. 2. PSYCHOLOGY. B.A, Middlebury Col, 61; Nat. Defense Ed. Act fel, Tufts, 61-64, M.S, 63, Ph.D.(psychol), 66. RES. PSYCHOLOGIST, U.S. Army Natick Labs, 65-66, U.S. ARMY RES. INST. ENVIRON. MED, 66- U.S.A, 66-68, Capt. Research Soc; Psychol. Asn. Effects of environmental stresses on psychological and physiological functions in the human, with emphasis on heat, cold, and hypoxia. Publ: Effect of acute exposure to altitude on time estimation, J. Psychol, 67; Note on relation of stimulus-seeking behavior and arousal level, Psychol. Reports, 67. Address: U.S. Army Research Institute of Environmental Medicine, Natick, Mass. 01760.

CAIN, DR. ALBERT C(LIFFORD), b. Chicago, Ill, July 19, 33; m. 59; c. 2. CLINICAL PSYCHOLOGY. B.A, Michigan, 54, Ford Found. fel, 55-56, Ph.D.(clin. psychol), 62; Chicago Inst. Psychoanal, 61-66. Asst. prof. CLIN. PSYCHOL, DEPTS. PSYCHOL. & PSYCHIAT, MICHIGAN, 62-65, ASSOC. PROF, 65-, CHIEF PSYCHOLOGIST, CHILDREN'S PSYCHIAT HOSP, MED. CENTER, 64- Consult, Health Res. Facilities Br, Nat. Insts. Health, 64-; Yorkwood Center, 66- Orthopsychiat. Asn; Psychol. Asn; Soc. Res. Child Develop. Childhood bereavement; child psychosis; psychoanalytic child therapy; etiology of childhood psychopathology. Publ: Pre-superego turning inward of aggression, Psychoanal. Quart, 61; On the meaning of playing crazy in borderline children, Psychiatry, 64; co-auth, Children's disturbed reactions to the death of a sibling, Am. J. Orthopsychiat, 64. Address: Depts. of Psychology & Psychiatry, University of Michigan, Ann Arbor, Mich. 48104.

CAIN, PROF. EDWARD ROBERT, b. Lynn, Mass, Sept. 24, 24. GOVERNMENT. A.B, Boston, 48; A.M, Columbia, 50, Ph.D, 52. Lectr. govt, Boston, 52-53; instr, Westminster Col, 53-55; Rochester, 55-58; overseas, Maryland, 58-59; assoc. prof. GOVT, STATE UNIV. N.Y. COL. BROCKPORT, 59-64, PROF, 64- U.S.A, 43-46. Polit. Sci. Asn; Soc. Polit. & Legal Philos. British neo-Hegelianism; anti-communist legislation abroad; comparative civil liberties. Publ: They'd rather be right, Macmillan, 63; William Buckley, Jr: profile, Frontier, 4/64; Can Indian political parties compete?, Soc. Studies, 1/67. Address: Dept. of Political Science, State University of New York College at Brockport, Brockport, N.Y. 14420.

CAIN, DR. GLEN GEORGE, b. Chicago, Ill, Nov. 24, 33; m. 58; c. 2. ECONOMICS. B.A, Lake Forest Col, 55; M.A, California, Berkeley, 57; Ph.D. (econ), Chicago, 64. Assoc. economist, Fed. Reserve Bank Chicago, 58-60; from asst. to ASSOC. PROF. ECON, WISCONSIN, 63- Vis. prof. from Univ. Chicago, Cuyo, summer, 64. Economist, Off. Econ. Opportunity, 66-67. Econ. Asn; Indust. Rels. Res. Asn. Labor economics. Publ: Married women in the labor force, Univ. Chicago, 66; Unemployment and the labor force participation of secondary workers, Indust. & Labor Rels. Rev, 67. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

CAIN, H. THOMAS, b. Burlington, Wash, May 18, 13; m. 41; c. 3. ANTHROPOLOGY. A.B, Washington (Seattle), 38; fel. & M.A, Arizona, 45, Thaw fel, Harvard, 51. Curator anthrop, San Diego Mus. of Man, 45-50; archaeologist, river basin survs, Smithsonian Instn, 52; DIR, HEARD MUS. ANTHROP, 52-Lectr, Arizona State, 62- Mem, Am. Asn. Mus. Scandinavian seminar, Denmark, Norway, Sweden & Finland, summer, 65. U.S.M.C, 43-44. Fel. Anthrop. Asn; Asn. Mus. Museology as it applies to anthropological materials; cultural anthropology. Publ: Petroglyphs of the Columbia River; Santos, record of a way of life now gone; Pima Indian basketry. Address: Heard Museum of Anthropology, 22 E. Monte Vista Rd, Phoenix, Ariz. 85004.

CAIN, DR. LEILA SCELONGE, b. Chicago, Ill, Aug. 13, 35; m. 59; c. 2. PSYCHOLOGY. B.A, DePauw, 57; M.A, Northwestern, 59; M.S, Western Reserve, 63, Ph.D.(psychol), 64. Teacher, high sch, 57-61; lectr, statist, Western Reserve, 63-64, ASST. PROF. psychol. & statist, 64-66; PSYCHOL, RHODE ISLAND, 66- Voc. Rehab. Admin. grant, Res. & Rehab. Training Center, 64-66; res. grant, Rhode Island, 67-; res. psychologist, Highland View Hosp, 64-66. Consult. res. design, dept. ed, Western Reserve, 66. Psychol. Asn. Research methodology and statistical techniques, especially the analysis of variance; factors affecting rehabilitation; learning theory in personality research. Publ: Co-auth, Public opinion and the outbreak of war, J. Conflict Resolution, 65; On the analysis of variance in geology, J. Geophys. Res, 65; auth, selection of a model for a two-factor analysis of variance, Psychol. Reports, 66. Address: Dept. of Psychology, University of Rhode Island, Kingston, R.I. 02881.

CAIN, PRES. LEO FRANCIS, b. Chico, Calif, July 30, 09; m. 40; c. 3. PSYCHOLOGY. A.B, Chico State Col, 31; M.A, Stanford, 35, Ph.D, 39. Teacher & prin, pub. schs, Calif, 29-37; res. assoc, Am. Coun. Ed, D.C, 37-39; assoc. prof. & lectr. ed, Maryland, 40-43; prof. ed. & dir. spec. ed, San Francisco State Col, 47-51, dean ed. serv. & summer session, 51-57, v.pres, 57-62; PRES, CALIF. STATE COL. DOMINGUEZ HILLS, 62- For. serv. specialist, W.Germany, 53; chief of party, ed. surv, Repub. Liberia, 61. Consult, South. Regional Ed. Bd, 56-60; West. Interstate Cmn. Higher Ed, 58-60; U.S. Off. Ed, 59. Mem. rehab. counseling adv. panel, Dept. Health, Ed. & Welfare, 58-61, psycho-soc. study sect, off. res. & demonstrations, soc. & rehab. serv, 65-68; chmn. spec. ed. adv. cmt, United Cerebral Palsy, Inc, 60-67, mem. med. & sci. cmt, 61; pres, Coun. Except. Children, 61-62, chmn. interagency cmt, 66-; mem, President's Cmt. Ment. Retardation, 67-Psychol. Asn; Asn. Ment. Deficiency; Ed. Res. Asn. Learning and social competency, parent adaptability, and effectiveness of school curriculum on retarded children. Publ: Co-auth, Social competency scale, Consult. Psychologists Press, 63; Prognosis, In: Encyclopedia of educational research; Mentally retarded children in California secondary schools. Address: California State College at Dominguez Hills, 809 E. Victoria St, Dominguez Hills, Calif. 90247.

CAIN, PROF. LEONARD D, JR, b. Ft. Worth, Tex, June 24, 25; m. 47; c. 3. SOCIOLOGY. M.A, Texas Christian, 49; fel, Texas, 49-52, Ph.D.(sociol), 55. Instr. SOCIOL, SACRAMENTO STATE COL, 52-55, asst. prof, 55-59, assoc. prof, 59-65, PROF, 65- U.S.A, 43-46. Sociol. Asn. Age statuses; social change; urbanization. Publ: Life course and social structure, In: R.E.L. Faris handbook of modern sociology, Rand McNally, 64; co-auth, Growth and government in Sacramento, Indiana, 66; The AMA and the gerontologists, In: G. Sjoberg, ed, Ethics, politics and social research, Schenakman, 67. Address: Dept. of Sociology, Sacramento State College, Sacramento, Calif. 95819.

CAIN, DR. LEONARD F(RANCIS), b. Pottstown, Pa, Jan. 29, 22; m. 44; c. 11. ECONOMICS. A.B, St. Joseph's Col.(Pa), 43; M.A, Catholic Univ, 47, Ph.D. (econ), 66; Penfield fel, Wisconsin, 48-49. Instr. ECON, CATHOLIC UNIV, 49-53, asst. prof, 53-68, ASSOC. PROF, 68-, DEAN COL. ARTS & SCI, 67-, asst. dean, 58-66, acting dean, 66-67. U.S.A, 43-46. Econ. Asn; Indust. Rels. Res. Asn. Labor-management relations; social security; foreign labor movements. Publ: The Irish labor movement under the Free State and the Republic, Univ. Microfilms, 66; contrib, Land tenure in Ireland in the modern period, Agr. Hist. Address: 1026 Newton St. N.E, Washington, D.C. 20017.

CAINE, DR. JEFFREY, b. Altrincham, Eng, Dec. 6, 23; nat; m. 55. PSYCHOLOGY. B.Sc, Manchester, 50; dipl, London, 51; Smith-Mundt grant, 51-52; Ph.D.(psychol), Pa. State, 54. Staff clin. psychologist, St. Louis State

Hosp, 54-59; U.S. Pub. Health Serv. fel. clin. psychol, Worcester State Hosp, Mass, 59-61; psychologist, N.Cent. Mass. Ment. Health Center, Fitchburg, 61-62; SUPV. CLIN. PSYCHOLOGIST, SAN FRANCISCO DEPT. PUB. HEALTH, 62- Brit. Army, 43-47. Psychol. Asn. Development of the individual; child, adult and group diagnosis and treatment; community mental health. Publ: Relation of person naming and tension to prognosis and adjustment of mental patients, J. Clin. Psychol. Address: 127 Dalewood Way, San Francisco, Calif. 94127.

CAINE, WALTER E(UGENE), b. Buffalo, N.Y, Apr. 4, 08; m. 32; c. 3. ECONOMICS. B.S, Buffalo, 30; M.B.A, Northwestern, 31. Assoc. dir. surv. rels. between govt. & elec. indust, Twentieth Century Fund, 40; asst. chief div. rates & res, Fed. Power Cmn, 41-44; dir. bur. statist. & secy. acct. sect, Am. Gas Asn, N.Y, 44-48; secy-treas, TEX. EAST. TRANSMISSION CORP, 48-50, v.pres. & treas, 50-53, v.pres. gas sales, 53-67, V.PRES. CORP. SERV. DIV, 67- Consult, War Prod. Bd, 42; Nat. Security Resources Bd, 48; President's Mat. Policy Cmn, 50-51; petrol. admin. for defense, U.S. Dept. Interior, 52, 54, dir. gas planning div, 51-52, consult, oil & gas div, 54-55; Off. Defense Mobilization, 54. Mem. gas indust. adv. coun, U.S. Dept. Interior, 54-57; Mil. Petrol. Adv. Bd, 57-61; Am. Gas. Asn. Econ. Asn. Public utility economics. Publ: Co-auth, Electric power and government policy. Address: Box 2521, Houston, Tex. 77001.

CAIRD, DR. W(ILLIAM) K(ARL), b. Vancouver, B.C, Nov. 7, 26; m. 54; c. 3. PSYCHOLOGY. B.A, British Columbia, 59; M.A, Queen's, 60, Ph.D.(psychol), 62, dipl. clin. psychol, 63. Res. assoc. PSYCHOL, Queen's, 60-62; asst. prof, British Columbia, 62-65; ASSOC. PROF, DALHOUSIE, 65- Consult, Dept. Health, Prov. N.S, 66- Geront. Soc; Can. Psychol. Asn. Gerontology; effects of age on memory and learning; experimental and clinical psychology; conditioning and learning therapies. Publ: Reverberatory activity and memory disorder, Nature, 64; Aging and short term memory, J. Geront, 66; Memory loss in the senile psychoses: organic or psychogenic?, Psychol. Reports, 66. Address: Dept. of Psychology, Dalhousie University, Halifax, N.S, Can.

CAIRNS, DR. H(UGH) ALAN C(RAIG), b. Galt, Ont, Mar. 2, 30; m. 58; c. 3. POLITICAL SCIENCE. B.A, Toronto, 53, M.A, 57; D.Phil.(African studies), Oxford, 63. Instr. POLIT. SCI, BRITISH COLUMBIA, 60-63, asst. prof, 63-66, ASSOC. PROF, 66- Mem, Can. Tax Found. Am. Polit. Sci. Asn; Can. Hist. Asn; Inst. Pub. Admin, Can; Can. Polit. Sci. Asn. African studies; Canadian politics; public law; Canadian Indians. Publ: Prelude to imperialism, Routledge & Kegan Paul, 65; co-auth, A survey of the contemporary Indians of Canada, Queen's Printer, 67 & A different perspective on Canadian federalism, Can. Pub. Admin, 3/66. Address: Dept. of Political Science, University of British Columbia, Vancouver, B.C, Can.

CAIRNS, DR. ROBERT B(ENNETT), b. Los Angeles, Calif, Aug. 25, 33; m. 55; c. 1. PSYCHOLOGY. A.B, Pasadena Col, 55; U.S. Pub. Health Serv. fel, Stanford, 57-59, Ph.D, 60. From instr. to asst. prof. PSYCHOL, Pennsylvania, 59-61; INDIANA, 61-65, ASSOC. PROF, 65- U.S. Pub. Health Serv. fel, Jackson Lab, Bar Harbor, Maine, 65-66. Soc. Res. Child Develop; Psychol. Asn. Social behavior development in mammals. Publ: Attachment behavior of mammals, Psychol. Rev, 9/66; Development, maintenance and extinction of social attachment behavior in sheep, J. Comparative & Physiol. Psychol, 10/66; Informational properties of verbal and nonverbal events, J. Personality & Soc. Psychol, 3/67. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

CAIRO, DR ARMON A(NTHONY), Psychiat, Internal Med, see 11th ed, Phys. & Biol. Vols.

CAISTER, DR. LOUIS E, b. Decker, Mich, Mar. 23, 25; m. 45; c. 2. PSYCHOLOGY, HIGHER EDUCATION. A.B, Asbury Col, 49; B.D, Asbury Theol. Sem, 51; M.A, Michigan, 56, Ph.D.(higher ed), 60. Res. asst. higher ed, surv. dent. in U.S. dental ed, Michigan, 59-60; dean students, Malone Col, 60-63; REGISTRAR & INSTR. PSYCHOL, ASBURY COL, 63- U.S.A, 45-46. Asn. Higher Ed. Administration of higher education, specifically in the matter of using part-time teachers and aspects of morale of faculty members. Publ: Influence of administrative procedure on faculty morale, J. Dent. Ed, 3/64. Address: Dept. of Psychology, Asbury College, Wilmore, Ky. 40390.

CALDERWOOD, PROF. JAMES D(IXON), b. Watford, Eng, Sept. 9, 17; nat. ECONOMICS. B.Com, London Sch. Econ, 38; Inst. Int. Studies, Switz. 39-40; fel, Brookings Inst, 40-41; Ph.D, Ohio State, 43. Economist, U.S. Dept. Agr, 43-44; asst. prof. econ, Ohio State, 46-51, assoc. prof, 51-53; economist, Cmt. Econ. Develop, 53-55; PROF. econ, Claremont Grad. Sch. & Pomona Col, 55-60; SCH. BUS. ADMIN, SOUTHERN CALIFORNIA, 60- Vis. prof, Air Force Inst. Tech, 47, 48, 53; Mich. State, 50; Salzburg Seminars Am. Studies, Austria, 51-52; Hofstra Col, 54; California, Riverside, 59; U.S. State Dept. lectr, S.Am, 60 & 68, Taiwan, 61. Consult, Joint Coun. Econ. Ed, 55-; Lockheed Aircraft Corp, 58-; Ford Found. Mid. East Prog, 63-; Ministry of Planning, Iraq, 64; Civil Serv. Bd, Lebanon, 66-67. Econ. adv. to President of Lebanon, 63. Econ. Asn. International economics. Publ: The problems and promise of American democracy; co-auth, Introduction to economic reasoning, Doubleday, 67 & Economics in action, Macmillan, 68. Address: School of Business Administration, University of Southern California, Los Angeles, Calif. 90007.

CALDWELL, DR. ALEXANDER BRYAN, b. Winston-Salem, N.C, Oct. 5, 29; m. 51; c. 3. CLINICAL PSYCHOLOGY. B.A, Minnesota, 51, M.A, 55, Ph.D, 58. INSTR. clin. psychol, med. sch, Minnesota, 56-59; MED. PSYCHOL, SCH. MED, CALIFORNIA, LOS ANGELES, 59- Psychol. Asn. How people judge personalities of others; psychology of special physical and psychosomatic conditions; improvement of prediction and use of objective personality testing; automation of objective personality test reports from Minnesota Multiphasic Personality Inventory and other tests. Publ: Courtroom use of psychological testing, Trauma; Sexual behavior and its deviations, Trauma, 10/64. Address: Neuropsychiatric Institute, 760 Westwood Plaza, University of California, Los Angeles, Calif. 90024.

CALDWELL, DR. BETTYE M(cDONALD), b. Smithville, Tex, Dec. 24, 24; m. 47; c. 2. PSYCHOLOGY. A.B, Baylor, 45; A.M, Iowa, 46; Ph.D.(psychol), Washington (St. Louis), 51. Asst. med. psychol, med. sch, Washington (St. Louis), 47-50, instr, 50-53, res. assoc. med. psychol. & pediat, 55-58; asst. prof. psychol, Northwestern, 53-55; lectr. psychol, SYRACUSE, 59-66, PROF. CHILD DEVELOP. & ED, 66-, RES. ASSOC. PEDIAT, STATE UNIV. N.Y. UPSTATE MED. CENTER, 59-, DIR. CHILDREN'S CENTER, 66- Mem. adv. cmt, child welfare res. & demonstration grants prog, children's bur, Dept. of Health, Ed. & Welfare, Wash, D.C, 66- Psychol. Asn; Soc. Res. Child Develop. Child development; mother-child interaction; development and evaluation of research-oriented enrichment program for infants and young children from disadvantaged families. Publ: Impact of theories of child development, Children; The effects of infant care, In: Vol. I, Review of child development research, Soc. Res. Child Develop, 64; What is the optimal learning environment for the young child, Am. J. Orthopsychiat, 67. Address: College of Home Economics, Syracuse University, Syracuse, N.Y. 13210.

CALDWELL, DR. BILLY SIM, b. Arkadelphia, Ark, June 6, 23; m. 47; c. 3. PSYCHOLOGY. B.A, Henderson State Teachers Col, 47; M.A, Wyoming, 49; Nat. Inst. Ment. Health fel, Texas, 63-65, Ph.D.(ed. psychol), 65. Teacher, Independent Sch. Dist, Pulaski County, Ark, 49-53; counsr-caseworker, Methodist Home, Waco, Tex, 53-57; teacher, Independent Sch. Dist, Clear Creek, Tex, 57-60, counsr, 60-62; ASST. PROF. PEDIAT, PSYCHIAT. & NEUROL. & CHIEF PSYCHOLOGIST, DEPT. PEDIAT, MED. BR, TEXAS, 65- Res. assoc, Personnel Serv. Res. Center, Austin, summer 65. U.S.A, 43-46. AAAS; Psychol. Asn; Personnel & Guid. Asn. Evaluation of intervention programs for culturally disadvantaged children; development of evaluation techniques for handicapped children; use of consultation in working through others to modify behavior of handicapped children; behavior modification. Address: Dept. of Pediatrics, Child Development Clinic, University of Texas Medical Branch, Galveston, Tex. 77550.

CALDWELL, DR. DONALD FROST, b. Chicago, Ill, Mar. 3, 33; m. 55; c. 1. PHYSIOLOGICAL & EXPERIMENTAL PSYCHOLOGY. B.S, Purdue, 55; M.A, Peabody Col, 57; U.S. Pub. Health Serv. fel, Vanderbilt, 59-60, Ph.D. (physiol. psychol), 60. Asst, Vanderbilt, 57-59; res. assoc. psychiat, col. med. & animal behav. lab, Lafayette Clin, Wayne State, 60-62; res. psychologist, inst. res, Walter Reed Army Med. Center, 62-63; DIR. PSYCHOL, DIV. PSYCHOBIOL, LAFAYETTE CLIN, WAYNE STATE, 63- ASSOC. PROF, UNIV, 67- Instr, Detroit Inst. Tech, 60- AAAS; Psychol. Asn; Statist. Asn. Prenatal and neonatal development on subsequent postnatal behavior, especially on developmental learning; comparative psychological studies of learning development. Publ: Relationship of manifest anxiety and electric shock to eyelid conditioning, J. Exp. Psychol; Effects of adrenal demedullation on conditioned avoidance learning in mice, J. Comp. & Physiol. Psychol; Stillbirths from adrenal demedullated mice subjected to chronic stress throughout gestation, J. Embryol. & Exp. Morphol. Address: Division of Psychobiology, Lafayette Clinic, 951 E. Lafayette, Detroit, Mich. 48207.

CALDWELL, DR. EDWARD, b. Greensboro, Ga, May 23, 23; m. 47; c. 5. EDUCATIONAL PSYCHOLOGY. B.S, Georgia, 48, M.S, 49; fel, Fla. State, 56-57, Ed.D, 58. Dir. guid, Bd. Pub. Instr. of Manatee County, Fla, 58-61; consult, Calif. Test Bur, 61-65; DIR. EVAL. SERV, UNIV. SOUTH FLORIDA, 65- U.S.N, 43-45. Psychol. Asn; Ed. Res. Asn; Coun. Measurement in Ed. Identification of students characterized by development of an operational definition of inefficient learning; experimenting with methods to overcome inefficient learning. Publ: A study of vocational plans of talented high school sophomores & Effect of special counseling on talented students with inferior grades, Fla. J. Ed. Res; Stability of scores on a personality inventory administered during orientation week, Personnel & Guid. J. Address: 202 Holland Ave, Temple Terrace, Fla. 33620.

CALDWELL, DR. EDWIN L(EONARD), b. Hannibal, Mo, Oct. 17, 23; m. 48; c. 1. ECONOMICS. B.B.A, Baylor, 46; fel, Texas, 46-49, M.A, 48; Gen. Ed. Bd. fel, Harvard, 51-53, Ph.D, 60. Asst. prof. econ, Baylor, 49-53, assoc. prof, 53-60, prof, 60-63; assoc. economist, Repub. Nat. Bank, Tex, 63-65; V.PRES. & ECONOMIST, CONN. BANK & TRUST CO, 65- Economist, Fed. Reserve Bank of New York, 60-61; summer economist, Southwest Res. Inst, 56. U.S.N, 43-46. Econ. Asn; Statist. Asn. Business cycles; fiscal policy; economic growth and history. Publ: St. Lawrence seaway and the second federal reserve district & Post-war employment fluctuations in the second district, Monthly Rev; Manufacturing, In: Southwest Resources Handbook. Address: Connecticut Bank & Trust Co, 1 Constitution Plaza, Hartford, Conn. 06115.

CALDWELL, DR. HARRY H, b. Oct. 21, 20. GEOGRAPHY. A.B, Clark, 41, Ph.D, 51; A.M, Nebraska, 46. Instr, Nebr. Wesleyan, 46; Agr. & Mech. Col, Tex, 46-47; GEOG, IDAHO, 48-50, asst. prof, 50-55, assoc. prof, 55-64, PROF. & CHMN. DEPT, 64- Bus. fel, U.S. Steel Corp, 55; vis. prof, Portland State Col, 56; West. Wash. State Col, 61; Columbia, 63; Long Beach State Col, 64. Dir, Nat. Defense Ed. Act. Geog. Inst, 65-66. Consult, 54-61; U.S. Forest Serv, 63-64; Ed. Surv, 66; Stanford Res. Inst, Bangkok, 67. Asn. Am. Geog; Coun. Geog. Ed. Asia; city planning; tourism. Publ: Idaho conservation source book; contrib, Pacific northwest. Address: University of Idaho College of Mines, Moscow, Idaho 83843.

CALDWELL, DR. JAY S(PENCER), b. Mason City, Iowa, Apr. 12, 27; m. 52; c. 4. PSYCHOLOGY. B.A, Coe Col, 54; fels, Michigan, 56-58, M.A, 57, Nat. Sci. Found. summer fel, 59, Ph.D.(psychol), 62. Psychometrist administer & score tests, Vet. Admin. Guid. Center, Coe Col, 54-55; asst. PSYCHOL, Michigan, 55-58, 59-60, asst. & res. lab. coordinator, 58-59; asst. prof, Utah State, 60-61; lectr, California, Davis, 61-62, ASST. PROF, 62-66; CHICO STATE COL, 66- U.S.N, 45-46; U.S.A.F.R, 52-65, 1st Lt. AAAS. Learning theory; motivation and emotion; avoidance conditioning; one trial learning; alternation; cognitive processes. Publ: Co-auth, Instructors manual for psychology, Addison-Wesley, 66 & Alternation phenomena in cross-maze exploration by rats, Papers Mich. Acad. Sci, Arts & Letters. Address: Dept. of Psychology, Chico State College, Chico, Calif. 95926.

CALDWELL, DR. JOHN R, Internal Med, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

CALDWELL, DR. JOHN T(YLER), b. Yazoo City, Miss, Dec. 19, 11; m; c. 6. POLITICAL SCIENCE. B.S, Miss. State Col, 32; A.M, Duke, 36; Rosenwald fel, Princeton, 37-39, Ph.D, 39; M.A, Columbia, 45; LL.D, Col. of Ozarks, 55, Wake Forest Col, 60, Duke, 65. Instr. polit. sci, Vanderbilt, 39-42, asst. prof, 42-46, assoc. prof, 46-47; pres, Ala. Col, 47-52; Arkansas, 52-59; CHANCELLOR, N.C. STATE, 59- Economist, bur. agr. econ, U.S. Dept. Agr, 39; Ford Found. consult. ed. matters, Pakistan, 54. Mem. bd. trustees, Ed. Testing Serv; 57-60, 66-68, chmn, 66; mem. cmn. int. ed, Am. Coun. Ed, 66-, chmn, 67. U.S.N.R, 42-45, Lt. Comdr. Polit. Sci. Asn; Soc. Pub. Admin. Administrative control of state expenditures; operations of the Mississippi State Tax Commission; state owned land in Mississippi. Address: P.O. Box 5067, North Carolina State University, Raleigh, N.C. 27607.

CALDWELL, DR. JOSEPH R(ALSTON), b. Cleveland, Ohio, June 4, 16; m. 50; c. 3. ANTHROPOLOGY. Ph.D.(anthrop), Chicago, 57. Archaeologist, river basin surv, Smithsonian Inst, 46-49; Nat. Park Serv, 50-56; head curator ANTHROP, Ill. State Mus, 57-67; MEM. FACULTY, UNIV. GEORGIA, 68- AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol. Historical development of cultural and social processes, especially the concepts and methods. Publ: Irene Mound Site; Trend and tradition in the prehistory of eastern United States, Am. Anthrop. Asn. Mem. Address: Dept. of Anthropology, University of Georgia, Athens, Ga. 30602.

CALDWELL, DR. LEE S(YERS), b. Sturgis, Ky, July 25, 21; m. 49; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Kentucky, 49, Ph.D.(exp. psychol), 55. RES. PSYCHOLOGIST, U.S. ARMY MED. RES. LAB, 54- Lectr, Louisville, 58-65, assoc. prof, 65-; summers, lectr, Kentucky, 51 & 53. U.S.A.A.F, 43-45. AAAS; Psychol. Asn; Psychonomic Soc; Human Factors Soc; N.Y. Acad. Sci. Biomechanics and fatigue; effect of control variables on the strength and endurance of common manual responses. Publ: Judgement of angular positions in the horizontal plane on the basis of kinesthetic cues; Effect of the spatial position of a control on the strength of six linear hand movements; Effect of foot-rest position of the strength of horizontal pull by the hand. Address: Dept. of Psychology, U.S. Army Medical Research Lab, Ft. Knox, Ky. 40121.

CALDWELL, PROF. LYNTON K(EITH), b. Montezuma, Iowa, Nov. 21, 13; m. 40; c. 2. POLITICAL SCIENCE. Ph.B, Chicago, 35, Ph.D.(polit. sci), 43; M.A, Harvard, 38. Asst. prof. govt. & dir. South Bend Center, Indiana, 38-44; dir. res. & pubs, Coun. State Govts, 44-47; prof. polit. sci. & dir. grad. prog. pub. admin, Maxwell Grad. Sch, Syracuse, 47-55; vis. prof. polit. sci, California, 55-56; PROF. GOVT, INDIANA, 56- Nat. Sci. Found. grant, 65-68, contract, 67-68. Coordinator, war training serv, Civil Aeronaut. Admin; vis. mem. faculty, Chicago, 44-47; UN co-dir, Pub. Admin. Inst. Turkey & Mid. East, 54-55. Consult, inst. pub. admin, Philippines, 54. Mem. environ. sci. rev. cmt, Nat. Insts. Health, 66-67. Ed, State Govt. & Book of States, 44-47. AAAS; Polit. Sci. Asn; Soc. Pub. Admin; Ecol. Soc. Public administration; influence of science and technology on society and public policy with special emphasis on the role of government in shaping the human environment. Publ: Biopolitics: science, ethics and public policy, Yale Rev, 10/64; Problems of applied ecology, BioSci, 8/66; Administrative possibilities for environmental control, In: Future environments of North America, Nat. Hist. Press, 66. Address: Room 213 Woodburn Hall, Indiana University, Bloomington, Ind. 47401.

CALDWELL, DR. MORRIS G(ILMORE), b. Arlington, Wis, Feb. 20, 93; m; c. 2. SOCIOLOGY. A.B, Carroll Col, 26; A.M, Wisconsin, 27, Ph.D, 29; Ohio State, 34. Prof. sociol, Ashland Col, 29-34; Westminster Col.(Mo), 34-35; Kentucky, 35-39; dir, State Div. Corrections & mem, Wis. Parole Bd, 39-43; nat. chmn, Coun. Youth Delinquency, Nat. Civic Fedn, D.C, 43-45; prof. SOCIOL, ALABAMA, 46-63, dir. res. projs, 46-54, supvr. pre-prfnl. soc. work training, 54-63, EMER. PROF, 63-; PROF, STILLMAN COL, 63- Mem. faculty exten. div, Univ. Missouri, 34-35. Ed, Ala. Correctional J, 54-63. Mem. regional prfnl. training cmt. soc. work, Univ. Tennessee, 61-67. Distinguished serv. award, Ala. Coun. Crime & Delinquency. Fel. Sociol. Asn; Correctional Asn; Statist. Asn; Rural Sociol. Soc; Acad. Polit. & Soc. Sci; fel. Soc. Criminol; Nat. Coun. Crime & Delinquency; Asn. Social Workers; Acad. Cert. Soc. Workers; fel. Soc. Study Social Probs. Criminology; corrections; probation and parole. Publ: Analysis of social problems; Group dynamics in the prison community & Case analysis method for the personality study of offenders, J. Criminal Law & Criminol. & Police Sci. Address: Box 6194, University, Ala. 35486.

CALDWELL, PROF. ROBERT G(RAHAM), b. Philadelphia, Pa, Nov. 9, 04; m. 35. CRIMINOLOGY. B.S, Pennsylvania, 28, M.A, 34, Harrison fel, 35-36, Ph.D.(sociol), 39; LL.B, Jackson Sch. Law, 47. Statist. res. supvr, Bell Tel. Co, Pa, 28-33, res. consult, 33-36; instr. sociol, Pennsylvania, 36-38; asst. prof, Delaware, 38-40, head dept, 40-45; Col. of William & Mary, 45-48; PROF. CRIMINOL, IOWA, 48- Field rep, soc. protection div, Fed. Security Agency, 43-44; Soc. Sci. Res. Coun. grant, 46; sr. res. fel, law sch, Chicago, 59-61. Sociol. Asn; Soc. Criminol; Int. Soc. Criminol. Etiology of crime; rehabilitation of criminals; sociology of law. Publ: The penitentiary movement in Delaware, 1776-1829; Criminology; Red Hannah: Delaware's whipping post. Address: 325 Beldon Ave, Iowa City, Iowa 52240.

CALDWELL, PROF. WARREN W, b. Davenport, Iowa, Dec. 28, 25; m. 52; c. 1. ANTHROPOLOGY. B.A, Stanford, 48, M.A, 49; Ph.D, Washington (Seattle), 56. Assoc. anthrop, Stanford, 48-50; curator anthrop. & hist, Seattle Mus. Hist. & Indust, 51-52; asst. curator anthrop, state mus, Washington (Seattle), 53-54; archaeologist, Mo. Basin proj, SMITHSONIAN INSTN, 56-63, chief, 63-65, DIR. RIVER BASIN SURV, 65- Asst. prof, Nebraska, 60- Ed, Plains Anthropologist & Pub. Salvage Archaeol. Fel. AAAS; Soc. Archaeol; fel. Anthrop. Asn. Pre-history of North America, specifically the cultural backgrounds of the Pacific Northwest, Great Basin and Plains; the fur trade and its relation to changing cultural patterns in those areas. Publ: The black partizan site, 66 & Hells canyon archaeology, 67, Pub. Salvage Archaeol. Address: Smithsonian Institution, River Basin Surveys, 1835 P St, Lincoln, Nebr. 68508.

CALDWELL, PROF. WILLARD EDMUND, b. Flushing, N.Y, July 10, 20. PSYCHOLOGY. A.B, Florida, 41, M.A, 42; Ph.D.(psychol), Cornell, 46. Asst. PSYCHOL, Cornell, 43-46; head dept, Mary Baldwin Col, 46-47; PROF, GEORGE WASHINGTON, 47- U.S.A, 42-45. AAAS; Psychol. Asn. Conditioning in the sheep; laboratory, general, experimental, personality, clinical, animal and comparative psychology. Publ: Co-ed, Principles of comparative psychology; auth, Mathematical formulation of a unified field theory, Psychol. Rev; Field theory II, some applications to comparative psychology. Address: Dept. of Psychology, George Washington University, Washington, D.C. 20006.

CALEF, PROF. WESLEY (CARR), b. Alma Center, Wis, June 22, 14; m. 41; c. 3. GEOGRAPHY. B.A, Wisconsin, 36; M.A, California, Los Angeles, 44; Ph.D.(geog), Chicago, 48. Assoc. GEOG, California, Los Angeles, 43-44; instr, CHICAGO, 47-49, asst. prof, 49-55, assoc. prof, 55-58, PROF, 58- AAAS; Asn. Am. Geog; Coun. Geog. Ed. Physical geography; Rural land management. Publ: Private grazing and public land, Univ. Chicago. Address: Dept. of Geography, University of Chicago, Chicago, Ill. 60637.

CALGAARD, DR. RONALD K(EITH), b. Joice, Iowa, July 29, 37; m. 59; c. 1. ECONOMICS. B.A, Luther Col.(Iowa), 59; Woodrow Wilson fel, Iowa, 59-60, M.A, 61, Ph.D.(econ), 63. Instr. ECON, Iowa, 60-63; asst. prof, KANSAS, 63-67, ASSOC. PROF, 67- Soc. Sci. Res. Coun. fel. Latin Am. studies, 65-67. Econ, Asn. Economic development; international economics. Publ: Planning for development, In: The economy of Latin America, Univ. Iowa, 66. Address: Dept. of Economics, University of Kansas, Lawrence, Kans. 66044.

CALHOON, DR. C(LAIR) H(ENRY), b. Crooksville, Ohio, Dec. 20, 00; m. 23; c. 5. PSYCHOLOGY. A.B, Ohio, 22; A.M, Ohio State, 24, Ph.D.(clin. psychol), 30. Asst. psychologist, Bur. Juvenile Res, Ohio, 22-27, chief psychologist, 27-30, dir, 30-47; head-master, Glenview-Hillcrest Schs, 47-48; chief psychologist, State Dept. Pub. Welfare, Ohio, 48-51; psychologist, U.S. Pub. Health Serv, Atlanta, 51-67; RETIRED. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; fel. Asn. Ment. Deficiency. Mental health. Address: 1142 Wages Dr, Decatur, Ga. 30033.

CALHOON, DR. STEPHEN WALLACE, b. Galena, Ohio, May 20, 05; m. 29; c. 5. PSYCHOLOGY. A.B, Otterbein Col, 28; M.A, Ohio State, 31; Sc.D. (exp. psychol), Michigan, 37. Asst. radio ed, Ohio State, 31-33; private res, Mich, 33-36; dean ed. & prof. psychol. & ed, Marion Col, 36-37; biochem. study & res, 39-44, res. chemist, anti-gas warfare, 44; teacher elec. acct, Chem. Warfare Serv, 45-46; practicing psychologist, Stephen Wallace Calhoun, Inc, 46-60; EXEC. DIR. RES, INST. CHRONOLOGY; 60- Reduction of radio carbon dating to a valid and reliable system; psychology of hearing; theory of dynamic flow in neurochemical disturbances; anti-gas warfare; psycho-physiology of nutritional deficiencies. Address: 295 W. Hubbard, Columbus, Ohio 43215.

CALHOUN, DR. ARTHUR W(ALLACE), b. Dayton, Pa, Jan. 29, 85. SOCIOLOGY, LINGUISTICS. A.B, Pittsburgh, 06; A.M, Wisconsin, 13; Peabody Col, 15; Ph.D, Clark, 16; Columbia, 25-26. Prof. Eng, New Windsor Col, 06-07; classic lang. & hist, Norm. Indust. & High Sch, St. Petersburg, Fla, 07-09; instr. German & hist, Fla. State Col. Women, 10-11; prin, high sch, Fla, 12; prof. soc. sci, Lenox Col, 12-13; soc. sci. & Greek, Maryville Col, 13-15; lectr. sociol, Clark, 16-18; asst. prof, Kentucky, 18-19; ed. dir, Tri-State Coop. Asn, Pa, 19-20; lectr. coop. Rand Sch. Soc. Sci, 20-21; prof. econ, Grove City Col, 21-22; teacher, high sch, Fla, 22-23; soc. econ, Brookwood Labor Col, 23-29, dir. studies, 24-29; prof. hist. & soc. sci, Limestone Col, 29-32; Greek & German, Erskine Col, 33-36; dean, Sterling Col, 36-55, prof. psychol. & philos, 36-38, ancient lang. and lit, 38-42, Greek & soc. sci, 42-46, Greek & German, 46-55, acting prof. sociol, 56-57; asst. prof, Ill. Col, 57-58; prof. soc. studies, Claflin Col, 58-65. RETIRED. Economic interpretation of history; American labor; sociology of religion; social science in a time of change. Publ: Social history of the American family; Social universe: Cultural concept of Christianity. Address: 2503 12th St. S, St. Petersburg, Fla. 33705.

CALHOUN, C(HARLES) E(LIOT), b. Lamoni, Iowa, July 29, 96. FINANCE. A.B, Washington (Seattle), 25, M.B.A, 30; Chicago, 42; Columbia, 43; Wisconsin, 49. Head dept. commerce, Cleveland High Sch, Wash, 25-26; instr, Washington (Seattle), 26-32; finance officer, Jim Consol. Co, Calif, 32-34; secy-treas, Treas. State Syndicate, Mont, 34-37; v.pres, Assoc. Investors, Inc, Wash, 37-39; pres, Pure Food Prod, Inc, Calif. 39-42; assoc. prof. finance, Toledo, 42-46; prof, Maryland, 46-66; INVESTER & FINANCIER, 66- Prof, St. Martins Col, 42; lectr, Am. Inst. Banking & Am. Asn. Life Underwriters, 42-46. Finance Asn; Acad. Polit. Sci. Financial management; financing of the pulp and paper industry on the Pacific Coast; investment procedure and management. Address: 2290 Francisco St, Apt. 205, San Francisco, Calif. 94123.

CALHOUN, DR. ROBERT ALLAN, b. White Plains, N.Y, July 29, 21; m. 52; c. 4. DEMOGRAPHY. A.B, Sterling Col, 41; Ala. State Teachers Col, 48; M.A, George Peabody Col, 50; P.E.D, Indiana, 56. Teacher, Sch. Organic Ed, Ala, 41-42, 44-47; Fidelis Sch, Fla, 48-49; DIR. PUB. HEALTH STATTIST, IND. STATE BD. HEALTH, 53- Chmn. working group serv. progs, Pub. Health Conf. Records & Statist, 56-58, study group chronic disease records in local health dept, 59-62. Vital Records & Pub. Health Statist. Health; physical education; recreation. Address: 4759 Kessler View Dr, Indianapolis, Ind. 46220.

CALHOUN, DR. ROLAND L(EROY), b. Sioux Falls, S.Dak, Dec. 3, 28; m. 66; c. 1. SOCIAL PSYCHOLOGY. B.A, Claremont Men's Col, 57; Ph.D.(soc. psychol), Michigan, 62. Asst. prof. PSYCHOL, CALIF. STATE COL. FULLERTON, 61-67, ASSOC. PROF, 67- Human factors consult, autonetics div, N.Am. Rockwell Corp, 62- U.S.N, 47-50. Psychol. Asn. Perceptual-cognitive and social processes; tests and measurement. Publ: Co-auth, An experimental comparison of TV and direct vision for low altitude target recognition, 1/64, Laboratory studies in air-to-ground target recognition & Clue utilization in target recognition, 66, Autonetics. Address: Dept. of Psychology, California State College at Fullerton, Fullerton, Calif. 92631.

CALHOUN, PROF. WILLIAM EVANS, b. Philadelphia, Pa, July 5, 25; m. 64. SOCIOLOGY. A.B, Houghton Col, 50; B.D, East. Baptist Theol. Sem, 53;

M.A, George Washington, 56; American Univ, 57-65. Cost clerk, Milprint, Inc, Pa, 50-53; pastor, Calvary & Mt. Hope Baptist Church, Va, 53-55; Calvary Baptist Church, Va, 55-62; asst. sociol, American Univ, 62-63; pastor, Redeemer Italian Baptist Church, Wash, D.C, 63; Carmody Hills Baptist Church, Wash, D.C, 63-64; ASST. PROF. SOCIOL, Western Carolina, 65-67; COLUMBIA COL.(S.C), 67- Substitute teacher, Va, Md, & Wash, D.C, 53-65. U.S.N, 43-46. Sociol. Asn. Community studies. Publ: Pamphlet on the history of the rural churches of Loudoun County, Va, Loudoun County Ministerial Asn, 56; Challenge of sociol change to church organization and personnel, Religious Herald, 5/57. Address: Dept. of Sociology, Columbia College, Columbia, S.C. 29203.

CALHOUN, DR. WILLIAM H(AROLD), b. Healdsburg, Calif, Sept. 1, 32; m. 56; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Stanford, 59; Nat. Inst. Ment. Health fel, California, Berkeley, 62-63, Ph.D.(psychol), 64. ASST. PROF. PSYCHOL, TENNESSEE, 64- Nat. Inst. Ment. Health res. grants, 65-68. U.S.N, 52-56, Lt. AAAS; Psychol. Asn. Biological and pharmacological bases of learning and memory. Publ: The effect of strychnine sulphate on the home cage activity and oxygen consumption of three inbred strains of mice, Psychopharmacologia, 65; Effect of level of external stimulation on rate of learning and interaction of this effect with strychnine treatment in mice, Psychol. Reports, 66. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37916.

CALIA, PROF. VINCENT F(RANK), b. Somerville, Mass, June 25, 26; m. 54; c. 1. GUIDANCE, COUNSELING. A.B, Northeastern, 49; Ed.M, Boston, 52, Ed.D, 59; Columbia, 51-52. Counsr. & intern, Bd. Coop. Ed. Serv, N.Y, 51-52; instr. guid, jr. col, Boston, 52-57, asst. prof. psychol. & guid, 57-61, assoc. prof, col. basic studies, 61-64; PROF. COUNSR. ED. & CHMN. DEPT, R.I. COL, 64- Dir, Nat. Defense Ed. Act. Summer Inst. Counseling & Guid, 67. Consult, New Eng. Assessment Center, 66- U.S.A, 44-46, Sgt. Psychol. Asn; Personnel & Guid. Asn. Pupil personnel administration; theory and practice; the use of co-counselors in small group counseling; emerging models of secondary school counseling. Publ: Sr. auth, Pupil personnel administration: new perspectives & foundations, C.C. Thomas, 68; auth, Organization theory & research: some implications for guidance programs, Personnel & Guid. J, 4/65; The culturally deprived client: are-formulation of the counselor's role, J. Counseling Psychol, 66. Address: 133 East St, Wrentham, Mass. 02093.

CALISTI, DEAN LOUIS J. P, Pub. Health, Dent, see 11th ed, Phys. & Biol. Vols.

CALKINS, PROF. FRANCIS J(OSEPH), b. Chicago, Ill, Oct. 15, 10. FINANCE. A.B, Loyola (Ill), 32, A.M, 33; Columbia, 39; Ph.D, Northwestern, 47. Statistician, State Emergency Relief Cmn, Ill, 33-35; Works Progress Admin, 35-38; asst. trade analyst, Standard Statist. Co, Inc, N.Y, 38-39; instr. finance, Notre Dame, 39-42, asst. prof, 42-45; assoc. prof, Marquette, 45-49, PROF, 49-65, dir. dept, 49-59; BANKING & FINANCE, CASE WESTERN RESERVE, 65- Lectr, exten. div, Indiana, 43-45; Northwestern, 46-50; vis. lectr, California, Los Angeles, 49. Finance Asn; Econ. Asn. Private, business and consumer finance; security analysis. Publ: Cases and problems in investments; co-auth, Investments. Address: Case Western Reserve University School of Management, Cleveland, Ohio 44106.

CALKINS, DR. HOWARD A(NDREW), b. Geneva, Ohio, Sept. 3, 04; m. 31; c. 2. POLITICAL SCIENCE. B.A, Ohio Wesleyan, 27; M.A, Wisconsin, 28, Ph.D. (polit. sci), 52. Instr. GOVT, TEXAS, 29-36, asst. prof, 36-46, ASSOC. PROF, 46-, registrn. supvr, 46-50. Res. assoc, State Legis. Coun, Tex, 50. Polit. Sci. Asn; Soc. Pub. Admin. American state government; public administration. Publ: Manual of Texas state government. Address: Dept. of Government, Waggener Hall 107, University of Texas, Austin, Tex. 78712.

CALKINS, DR. ROBERT D(e BLOIS), b. Lebanon, Conn, Jan. 19, 03; m. 29; c. 2. ECONOMICS. B.S, Col. William & Mary, 25, LL.D, 42; univ. fel, Stanford, 28-29, A.M, 29, Ph.D, 33; LL.D, Emory, 54, Lehigh, 55, Pittsburgh, 58, Tulane, 59, Brown, 60, California, Berkeley, George Washington & Southwestern, 62. Asst. prof. econ, California, 33-36, assoc. prof, 36-40, prof, 40-41, chmn. dept, 35-40, dean col. commerce, 37-41; prof. bus. econ. & dean sch. bus, Columbia, 41-47, v.pres. & dir, Gen. Ed. Bd, 47-52; pres, Brookings Instn, 52-67; V.CHANCELLOR SOC. SCI. & PROF. ECON, CALIFORNIA, SANTA CRUZ, 67- Consult, U.S. Bur. Reclamation, 39-40; Nat. Resources Planning Bd, 40-42; Off. Price Admin, 42; U.S. Dept. War, 42; Ford Found, 53-54; N.Y. Univ, 55-56. Chmn. Pac. Coast Regional Cmt, Soc. Sci. Res. Coun, 39-41; dir, Nat. Acad. Econ. & Polit. Sci, 54-66; ed, TV & Radio Center, 53-59; trustee, Wash. Center Metrop. Studies, 59-67. Econ. Asn; Am. Acad. Arts & Sci; Royal Econ. Soc. Economic development; administration; education. Address: Central Services, University of California, Santa Cruz, Calif. 95060.

CALL, PROF. DAVID L, b. Batavia, N.Y, Feb. 12, 32; m. 54; c. 4. ECONOMICS, MARKETING. B.S, Cornell, 54, M.S, 57, Ph.D.(agr. econ), 60. Instr. bus. mgt, Cornell, 60; asst. prof. agr. econ, Mich. State, 60-62; BABCOCK PROF. FOOD ECON, GRAD. SCH. NUTRIT, CORNELL, 62-, DIR, AGRIBUS. EXECS. PROG, 63- Consult. & staff economist, Nat. Cmn. Food Mkt, 65-66; mem. food & nutrit. bd. & marine protein resource cmt, Nat. Acad. Sci-Nat. Res. Coun, 67-; dir, Agribus. Coun, Inc, 67- U.S.A, 54-56, Sgt. Agr. Econ. Asn; Econ. Asn; Mkt. Asn. Relationship between economics and human nutrition, particularly in less developed areas; economic evaluation of new food sources and products, particularly forms of protein. Publ: Private label products in food retailing, In: Technical Study 10, National Commission on Food Marketing, U.S. Govt, 66; co-auth, Trends in fat disappearance in the U.S. 1909-65, J. Nutrit, 10/67. Address: Graduate School of Nutrition, 121 Savage Hall, Cornell University, Ithaca, N.Y. 14850.

CALL, DR. DONALD J(AMES), b. Bend. Ore, Apr. 5, 29; m. 54; c. 2. SOCIOLOGY. B.A, Oregon, 57, M.A, 59, Ph.D.(sociol), 65. Instr. SOCIOL, West. Wash. State Col, 58-61; Oregon, 62-63; asst. prof, WEST. WASH. STATE COL, 63-66, ASSOC. PROF. & CHMN. DEPT; SOCIOL. & ANTHROP, 66- Dir. res, Lane County Youth Study Proj, Ore, 62-63. U.S.M.C, 47-51, Sgt. Sociol. Asn. Sociology of deviance and adolescence; social organization; community organization and development. Publ: Some theoretical notes concerning a strategic area of community research, Graphic Arts Press, 61; co-auth, Rural youth in America today, Lane County Youth Study Bd, 63; Delinquency, frustration and non-commitment, Dissertation Abstracts, 66. Address: Dept. of Sociology & Anthropology, Western Washington State College, Bellingham, Wash. 98225.

CALLAGAN, PROF. JOHN EDWIN, b. Manchester, Eng, Feb. 25, 20; Can. citizen; m. 53; c. 2. PSYCHOLOGY. B.A, Manchester, 49; Ph.D.(psychol), London, 52. Res. assoc. psychol, dept. psychiat, Toronto, 53-54; psychologist, Dept. Reform, Govt. Ont, 54-56; asst. dir, Juvenile Clin, Toronto, Ont, 56-58; from lectr. PSYCHOL. to asst. prof, Toronto, 58-63; assoc. prof, Windsor, 63-67; PROF, GUELPH, 67- Consult, Alcoholic & Drug Addiction Res. Found, Toronto, 60-63. H.M. Forces, 39-43; Can. Army, 59-, Maj. Am. Psychol. Asn; Can. Psychol. Asn. Personality; clinical and abnormal psychology; behavior disorders. Publ: Co-auth, Studies on the physiology of awareness, Confinia Neurologica, 55; auth, Delinquency; Ontario, Canada, Excerpta Criminologica, 62; co-auth, Effect of solitary confinement on prisoners, Am. J. Psychiat, 63. Address: Dept. of Psychology, Wellington College, University of Guelph, Guelph, Ont, Can.

CALLAGHAN, DR. CATHERINE A, Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

CALLAGHAN, H(UBERT) C(URTIS), S.J, b. Allston, Mass, Dec. 6, 07. SOCIOLOGY. A.B, Boston Col, 31, A.M, 32; S.T.L, Weston Col; A.M, Catholic Univ, 40, Ph.D, 47. Prof. sociol, COL. HOLY CROSS, 40-41, 43-47, prof. econ, 47-66, PERSONNEL MGR, 66-, DIR. INST. INDUST. RELS, 47- Sociol. Asn; Indust. Rel. Res. Asn. Address: Institute of Industrial Relations, College of the Holy Cross, Worcester, Mass. 01610.

CALLAGHAN, PROF. MARGARET, see 10th ed, Soc. & Behav. Vols.

CALLAHAN, PROF. JAMES WILLIAM, b. Hinsdale, N.H, Oct. 16, 20; m. 47; c. 4. AGRICULTURAL ECONOMICS. B.S, Massachusetts, 46, M.S, 53. Asst. AGR. ECON, MASSACHUSETTS, 46-48, instr, 48-56, ASST. PROF, 56-U.S.A.A.F, 42-45, Sgt. Urban pressures on agricultural land use; individual adjustments of Massachusetts farms; business management principles. Publ: Co-auth, Economics of pickling cucumber production in Massachusetts, Production adjustment on Massachusetts farms with tobacco allotment & auth, Agricultural land use changes and population growth in six western Massachusetts communities, 1940-65, Mass. Agr. Exp. Sta. Bull, 66. Address: Dept. of Agricultural and Food Economics, University of Massachusetts, Amherst, Mass. 01002.

CALLAHAN, PROF. MARY LOU, b. Detroit, Mich, Apr. 17, 30; m. 52. POLITICAL SCIENCE. Ph.B, Detroit, 52, M.A, 57. Claims supvr, Dept. Health, Ed. & Welfare, 52-59; from instr. to asst. prof. POLIT. SCI, MERCY COL.(MICH), 60-68, ASSOC. PROF, 68- Polit. Sci. Asn. Preparing basic bibliography for use in teaching introductory college courses in political science. Address: 4146 Meadow Way, Birmingham, Mich. 48010.

CALLAHAN, DR. ROBERT, b. Columbus, Wis, Mar. 5, 22; m. 46; c. 2. CLINICAL PSYCHOLOGY. Ph.B, Wisconsin, 47, M.S, 49, Ph.D, 52. Clin. psychologist, Vet. Admin. Center, Wood, Wis, 52-58, res. psychologist, 58-63, chief psychol. serv, Vet. Admin. Hosp, 63-65; ASSOC. PROF. PSYCHOL, IOWA, 65- Assoc, sch. med, Marquette, 57-63, asst. prof, 60-63; lectr, Wisconsin, 61-62. Dipl, Am. Bd. Exam. Prfnl. Psychol, 56. U.S.A.A.F, 42-45, 1st Lt. Psychol. Asn. Investigation of personality theories; biostatistics; psychophysiological patterns of reaction in humans. Address: Dept. of Psychology, University of Iowa, Iowa City, Iowa 52240.

CALLAHAN, PROF. ROBERT BASCOM, b. Sweetwater, Tenn, Aug. 27, 25; m. 53; c. 2. PUBLIC ADMINISTRATION. A.B, Southern California, 48, B.S, 49, M.S, 50, Ph.D.(pub. admin), 59. Fel. pub. personnel admin, personnel cmn. off, Los Angeles City Sch. Dists, 49-50; field rep. govt. pub. rel, soc. security admin, U.S. Dept. Health, Ed. & Welfare, 50-58; lectr. govt, sch. pub. admin. & asst. dir, civic center div, Southern California, 58-60; asst. prof. GOVT, CALIF. STATE COL. LOS ANGELES, 60-67, PROF, 67-, DIR, PEACE CORPS PROGS, 67-, assoc. dean & dir. admissions & records, 64-66. Res. assoc, forest fire prev. proj, Southern California, 59- Consult, U.S. Soc. Security Admin, 61-; Gormac, Inc, 61. U.S.N, 44-46. Polit. Sci. Asn; Soc. Pub. Admin; Planning Asn. Public relations in government; federal social security administration; forest fire prevention. Publ: Social security and public understanding. Address: 4619 Stark Ave, Woodland Hills, Calif. 91364.

CALLANDER, DR. W(ILLIAM) F(ORREST), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

CALLAWAY, PROF. JOSEPH ATLEE, Archaeol, Anthrop, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CALLCOTT, PROF. W(ILFRID) H(ARDY), U.S. Diplomatic Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CALLEN, PROF. E(RNEST) GLENN, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

CALLENDER, DR. CHARLES, b. Union Grove, Wis, Oct. 30, 28; m. 49. ANTHROPOLOGY. M.A, Chicago, 54, Ph.D.(anthrop), 58. Asst. prof. ANTHROP, Soc. Res. Center, American Univ. Cairo, 61-63; Delaware, 63-65; CASE WESTERN RESERVE, 65-68, ASSOC. PROF, 68- Anthrop. Asn; Mid. East Studies Asn. N.Am. Social Anthropology; North American Indians; Middle East. Publ: Co-ed, Issues in evolution, Univ. Chicago, 61; auth, Social organization of the central Algonkian Indians, Milwaukee Pub. Mus, 62. Address: Dept. of Anthropology, Case Western Reserve University, Cleveland, Ohio 44106.

CALLEO, DR. DAVID PATRICK, b. Binghamton, N.Y, July 19, 34. POLITICAL SCIENCE. B.A, Yale, 55, M.A, 57, Ph.D, 59. Instr. polit. sci, Brown,

59-60; Yale, 60-62, asst. prof, 62-67, dir. undergrad. studies, polit. sci. dept, 61-64; Rockefeller Found. grant int. rels, 64-65; Guggenheim res. fel. int. rels, Nuffield Col, Oxford, 66-67; consult. to under secy. polit. affairs, Dept. State, 67-68; ASSOC. PROF. EUROPEAN STUDIES, HOPKINS SCH. ADV. INT. STUDIES, D.C, 68- Soc. Sci. Res. Coun. grant, 66-67. U.S.A.R, 57, Capt. Polit. Sci. Asn; Acad. Polit. Sci; Soc. Polit. & Legal Philos. Nineteenth century British history and political theory; contemporary European politics and theory; American foreign policy. Publ: Europe's future: the grand alternatives, Horizon, 65; Coleridge and the idea of the modern state, Yale, 66; Britain's future, Hodder & Stoughton, 68. Address: 2607 O St. N.W, Washington, D.C. 20007.

CALLIHAN, PROF. E(LMER) L(EE), b. Lockhart, Tex, Dec. 6, 03; m. 28. JOURNALISM. B.J, Texas, 29; M.S.J, Northwestern, 39, fel, 45. Publicity writer, Austin Col, 30-32; instr. journalism & dir. publicity, pub. schs, Ft. Worth, Tex, 33-40; PROF. JOURNALISM & CHMN. DEPT, Drake, 40-45; Baylor, 45-46; SOUTHERN METHODIST, 46- Sports ed, Sherman Daily Democrat, Tex, 30-32. Soc. Journalism Sch. Adminstr.(ed, Directory, 41-); Asn. Ed. Journalism. Educational publicity; high school journalism; journalism education. Publ: Grammar for journalists, Ronald; ed, Drake creative awards anthology, Drake Univ. Address: Box 299, Southern Methodist University, Dallas, Tex. 75222.

CALLIS, DEAN ROBERT, b. Grand Tower, Ill, June 1, 20; m. 42; c. 2. PSYCHOLOGY. B.Ed, Southern Illinois, 42; M.A, Minnesota, 46, Ph.D, 48. Counsr, Minnesota, 42-46; asst. prof. psychol, MISSOURI, 48-50, assoc. prof, 50-53, ED, 53-55, PROF, 55-, DEAN, EXTRA DIVISIONAL ADMIN, 64-, assoc. dir. univ. testing & counseling serv, 48-53, dir, 55-64. U.S.N.R, 42-46, Lt. Psychol. Asn; Personnel & Guid. Asn. Educational Psychology. Publ: Co-auth, Stanford achievement test, Minnesota teacher attitude inventory & A casebook of counseling. Address: 215 Jesse Hall, University of Missouri, Columbia, Mo. 65201.

CALMAS, DR. WILFRED E, b. Hyannis, Mass, Sept. 12, 25; m. 58; c. 3. CLINICAL PSYCHOLOGY. B.S, Ohio State, 48; M.S, Michigan, 52; M.A, Boston, 57, Ph.D.(psychol), 65. Psychol. trainee, Brockton Vet. Admin. Hosp, 57-59; psychol. intern, Children's Med. Center, Boston, 59-61; ment. health coordinator, Bridgewater Treatment Center, 61-63; East. Middlesex Child Guid. Center, 63-65; ASSOC. PROF. PSYCHOL, MASS. STATE COL. BOSTON, 65-; STAFF PSYCHOLOGIST, CHILDREN'S MED. CENTER, 61- U.S.N, 45-46. Psychol. Asn. Address: Dept. of Psychology, Massachusetts State College at Boston, 625 Huntington Ave, Boston, Mass. 02115.

CALVERT, DR. DONALD E, b. Blakely, Pa, June 26, 31; m. 59; c. 2. BEHAVIORAL SCIENCE. B.S, Purdue, 56, M.S, 63, Ph.D.(indust. rels), 65. Indust. sales rep, Humble Oil & Refining Co, 56-62; asst. prof. orgn. policy & asst. dean, state univ. N.Y. Buffalo, 65-68; ASSOC. PROF. BUS. ADMIN, CANISIUS COL, 68- U.S.A, 49-51; C.Eng. U.S.N.R, Lt. Inst. Mgt. Sci. Management education techniques; motivation of field salesmen via sales projection/performance. Address: 78 Deumant Terr, Kenmore, N.Y. 14223.

CALVERT, GEOFFREY N(EIL), b. New Plymouth, N.Z, Aug. 29, 12; nat; m. 36; c. 2. ACTUARIAL SCIENCE, POLITICAL SCIENCE. B.S, New Zealand, 45, M.A, 46. Economist, World Bank, Wash, D.C, 46-47; DIR. CONSULT. ACTUARIAL DIV, ALEXANDER & ALEXANDER, INC, 48- Mem. Am. Pension Conf, 51; Can. Pension Conf, 62. Econ. Asn; Acad. Actuaries; Soc. Actuaries; Acad. Polit. & Soc. Sci; Royal Econ. Soc; Royal Statist. Soc; Royal Soc. Arts; fel. Can. Inst. Actuaries. Establishment and actuarial aspects of retirement plans; investments, economic aspects; demography. Publ: Cost-of-living pension plan; Pension pitfalls in company mergers, 65 & Land and real estate as a field of investment for pension funds, 67, Alexander & Alexander. Address: Alexander & Alexander, Inc, 225 Broadway, New York, N.Y. 10007.

CALVERT, DR. JAMES JENKINS, b. Cheyenne Wells, Colo, July 20, 12; m. 46; c. 3. PSYCHOLOGY. B.S, E.Cent. State Col, 41; M.S, Colorado, 47; Ph.D. (psychol), Ohio State, 51. Chief training, Vet. Admin. Hosp, 51-55, chief psychologist, 55-59; DIR. PSYCHOL, HUMAN RESOURCES INST, 58-; DIR. ED, CALVERT ACAD, 61- U.S.A.A.F, 42-45, Sgt. Psychol. Asn; Int. Soc. Gen. Semantics; Speech & Hearing Asn. Dyslexia research and treatment; special education. Publ: Co-auth, Rehabilitation of mental hygiene patients, J. Rehab, 10/58, Stuttering research, Quart. J. Speech, 4/64 & Oculomotor spasm in handicapped readers, Reading Teacher, 12/66. Address: 7101 Prospect Place N.E, Albuquerque, N.Mex. 87110.

CALVERT, DR. MONTE A(LAN), United States Hist, Hist. of Tech, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CALVERT, PROF. WILLIAM CARMAN, b. La Verne, Calif, Dec. 21, 24; m. 48; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Pomona Col, 47; M.A, Stanford, 49; Ph.D.(psychol), California, Los Angeles, 55. Asst. indust. rel, N.Am. Aviation, Inc, Calif, 54-56; assoc. prof. PSYCHOL, La Verne Col, 56-60, PROF, 61-64; Monmouth Col.(Ill), 64-66; Parsons Col, 66-67; UPSALA COL, 68- Assoc. dir, Nat. Sci. Found. Inst. Sci. Psychol. for Col. Teachers, Beloit Col, summer 63. U.S.N.R, 43-46, Lt.(jg). AAAS; Psychol. Asn. Visual perception and central nervous system function. Address: Dept. of Psychology, Upsala College, East Orange, N.J. 07019.

CALVIN, DR. ALLEN D(AVID), Psychol, see 11th ed, Phys. & Biol. Vols.

CALVIN, PROF. JAMES S(UTHERLAND), Psychol, see 10th ed, Soc. & Behav. Vols.

CALVIN, DR. LYLE D, Statist, see 11th ed, Phys. & Biol. Vols.

CAMBRELENG, PROF. PAUL LOUIS, Psychol, see 10th ed, Soc. & Behav. Vols.

CAMBRIA, PROF. SOPHIE T(HERESA), b. New York, N.Y, July 31, 14. SOCIAL ECONOMY. A.B, Barnard Col, 37; A.M, Bryn Mawr Col, 38, Ph.D, 45. Asst, Bryn Mawr Col, 40-42; Pennsylvania, 42-44; from asst. prof. to PROF. SOCIOL, HUNTER COL, 44- Supvr. res, sch. soc. work, Smith Col, 46-55; chmn. coun. honors, Hunter Col, 66- Asn. Univ. Prof; Asn. Social Workers; Coun. Soc. Work Ed. Social research methods. Publ: Ed, Smith College studies in social work, Smith, 49-55; co-auth, Study of admission of women for church work, Monogr. Nat. Coun. Episcopal Church & Responsibility of school and agency in student research, In: Ego psychology and dynamic casework. Address: Dept. of Sociology & Anthropology, Hunter College, 695 Park Ave, New York, N.Y. 10021.

CAMERON, PROF. GEORGE DANA, III, b. Bedford, Ohio, July 18, 35; m. 65; c. 1. POLITICAL SCIENCE, LAW. B.A, Kent State, 57, M.A, 62, LL.B, Michigan, 61. Asst. polit. sci, Kent State, 59; instr. polit. sci. & law & dean men, Cleary Col, 61-63; vis. lectr. BUS. LAW, EASTERN MICHIGAN, 63-64, asst. prof, 64-65, ASSOC. PROF, 66- Polit. Sci. Asn; Bar Asn; Bus. Law Asn. Soviet law; governments and politics of the Union of Soviet Socialist Republics and East Europe; comparative government; political theory; United States government, politics and private and public law; international and comparative law. Publ: The case for business law, Mich. State Bar J, 65,& Case & Comment, 66; Purchasing or selling in Michigan as a non-resident foreign corporation, J. Purchasing, 66; In full of account—or is it?, Bus. Ideas & Facts, 68. Address: 210 N. Seventh St, Ann Arbor, Mich. 48104.

CAMERON, PROF. HELEN A, b. Columbus, Ohio, Mar. 11, 05; m. 26; c. 2. ECONOMICS. B.A, Ohio State, 25, M.B.A, 55, Ph.D, 60. Asst. ECON, OHIO STATE, 55-57, asst. instr, 57-59, instr, 59-61, from asst. prof. to PROF, 61- Res. consult, Ohio Bur. Unemploy. Compensation, 60. Econ. Asn; Statist. Asn. Social insurance; monetary and fiscal policy of government; mathematical economics and econometrics; statistics. Publ: Ohio unemployment compensation fund, Bull. Bus. Res; Railroad discount bonds, Commercial & Financial Chronicle; Ohio fund solvency study. Address: 2244 Farleigh Rd, Columbus, Ohio 43221.

CAMERON, JOSEPH MARION, Math. Statist, see 11th ed, Phys. & Biol. Vols.

CAMERON, DR. NORMAN (ALEXANDER), b. Longueuil, Que, Apr. 24, 96; nat; m. 22. PSYCHOLOGY, PSYCHIATRY. A.B, Michigan, 23, Ph.D.(psychol), 27; M.D, Hopkins, 33; hon. M.A, Yale, 53. Asst. exp. psychol, Michigan, 21-24; instr. psychol, Wisconsin, 24-27, asst. prof, 27-30; house officer, Hopkins Hosp, 33-35, asst. res. psychiatrist, 35-36, res. & dispensary psychiatrist, 36-37, assoc. psychiatrist, 37-38; assoc. prof. psychol. & dir. res. in psychopath, med. col, Cornell, 38-39; prof. psychol, Wisconsin, 39-53, chmn. dept, 39-49, prof. psychiat, med. sch, 47-53; prof. psychiat. & assoc. psychiatrist, psychiat. inst, YALE, 53-66, EMER. PROF. PSYCHIAT, 66- Attend. psychiatrist, New York Hosp, 38-39; mem. faculty, West. New Eng. Inst. Psychoanal, 57- Fel. Psychol. Asn; fel. Psychiat. Asn; Psychoanal. Asn. Psychodynamics; language and thinking; perception. Publ: Auth, Psychology of behavioral disorders, 47, co-auth, Behavior pathology, 51 & auth, Personality development and psychopathology, 63, Houghton. Address: 53 Edgehill Rd, New Haven, Conn. 06511.

CAMERON, PROF. RONDO, b. Linden, Tex, Feb. 20, 25; m. 46; c. 2. ECONOMIC HISTORY. B.A, Yale, 48, M.A, 49; Fulbright grant, 50-51; Ph.D. (econ, sociol), Chicago, 52. Lectr. econ, DePaul, 49-50; instr, Yale, 51-52; asst. prof. ECON. & HIST, WISCONSIN, 52-56, assoc. prof, 57-61, PROF, 61- Guggenheim fel, 55; vis. prof, Chicago, 56-57; fel, Center Adv. Study Behav. Sci, Stanford, 58-59; Fulbright res. scholar, Glasgow, 62-63; spec. field staff, Rockefeller Found, 65-67; vis. prof, Univ. Chile & Cath. Univ. Chile, 65-67. Am. rev. correspondent, Econ. Hist. Rev, 61-65. Trustee, Coun. Res. Econ. Hist, 58-, pres, 67- U.S.N, 42-47, Lt.(jg). Econ. Asn; Hist. Asn; Econ. Hist. Asn; Econ. Hist. Soc, Brit. European economic history, especially 19th century. Publ: Auth, France and the economic development of Europe, 1800-1914; co-auth, The European world: a history, Little, 66; auth, Banking in the early stages of industrialization, Oxford Univ, 67. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

CAMERON, PROF. ROY E(RNEST), b. Kansas City, Mo, June 9, 93; m. 17. ECONOMICS. Fel. California, 25-28, Ph.D.(econ), 29. Prof. econ, Omaha, 23-25; from asst. to prof, SAN DIEGO STATE COL, 29-63, treas, col. found, 43-63, EMER. PROF. ECON, 63- Econ. Asn; Finance Asn. Money; banking; investments. Address: 4027 Ibis St, San Diego, Calif. 92103.

CAMERON, DR. W(ILLIAM) B(RUCE), b. Fairfax, Okla, Dec. 17, 20; m. 46; c. 2. SOCIOLOGY. B.A. & M.A, Butler, 43; Ph.D.(sociol), Wisconsin, 52. Asst. prof. sociol, Butler, 48-50; Cincinnati, 50-55; assoc. prof, Bradley, 55-58, prof, 58-64, head dept, 55-64; ASSOC. DEAN LIB. ARTS, SOUTH FLORIDA, 64- Summer instr, Butler, 47. U.S.A, 43-46. Fel. Sociol. Asn. Social psychology; communications electronics; music. Publ: Informal sociology, 63 & Modern social movements, 66, Random. Address: Social Science Division, University of South Florida, Tampa, Fla. 33620.

CAMIEN, PROF. LAITEN L(ESTER), b. Wichita, Kans, Aug. 16, 06; m. 31. SOCIOLOGY. A.B, Friends, 28; A.M, Wichita, 33; Northwestern, 37; Oklahoma, 39-40; Ph.D, Kansas, 48. Teacher, high sch, Kans, 28-34, supt, 34-38; Okla, 38-40; instr. ed, Kansas, 40-42, SOCIOL, 46-48; asst. prof, NEW MEXICO STATE, 48-55, assoc. prof, 55-64, PROF, 64- Consult, Third Judicial Dist. N.Mex. Juvenile Court, 54-64. U.S.A.A.F, 42-44, 2nd Lt. AAAS; Anthrop. Asn; Sociol. Asn; Ethnol. Soc; Acad. Polit. & Soc. Sci. Social problems; national urban youth rates of arrest; urban affairs. Publ: Education: the process and the social institution, Vantage, 64. Address: Dept. of History & Social Sciences, New Mexico State University, University Park, N.Mex. 88001.

CAMILLERI, PROF. SANTO FRANCIS, b. Rochester, N.Y, July 16, 22; m. 48; c. 2. SOCIOLOGY. B.A, California, Los Angeles, 47, M.A, 49, Ph.D, 55. From instr. to asst. prof. SOCIOL, Washington (Seattle), 52-59; Stanford, 59-62; assoc. prof, San Diego State Col, 62-63; MICH. STATE, 63-67, PROF, 67- Fel. Sociol. Asn. Methods of sociological research; statistical methods; social psychology. Publ: Factor analysis of the F-scale, Soc. Forces; Theory, probability and induction in social research, Am. Sociol. Rev; co-auth, Decision-making and social influence: a model and an experimental

test, Sociometry, 12/67. Address: Dept. of Sociology, Michigan State University, East Lansing, Mich. 48823.

CAMMACK, DR. FLOYD M, Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

CAMMAROSANO, PROF. JOSEPH R(APHAEL), b. Mt. Vernon, N.Y, Mar. 12, 23; m. 52; c. 3. ECONOMICS. B.S, Fordham, 47, Ph.D.(econ), 56; M.A, N.Y. Univ, 49. Asst. prof. econ, Iona Col, 50-55; Fordham, 55-60; consult, N.Y. Tel. Co, 60; U.S. Bur. Budget, 61-62; PROF. ECON, FORDHAM, 62-, DIR, INST. URBAN STUDIES, 64- Consult, cmt. rev. & simplification of constitution, State of N.Y, 57-60; State Tax Structure Study Cmt, N.Y, 62-; Temporary Cmn. N.Y. Constitutional Convention, 66-67. U.S.A, 43-46. Econ. Asn. Fiscal economics; public utilities; economic fluctuations; profile of the Bronx economy; plan for the redevelopment of the Brooklyn Navy yard. Publ: State finance; Highway finance in New York State; Shape of the economy in the sixties. Address: 76 N. Fulton Ave, Mt. Vernon, N.Y. 10550.

CAMP, DR. BONNIE WEBB, b. Hattiesburg, Miss, Jan. 25, 31. CLINICAL PSYCHOLOGY. A.B, Miss. State Col. Women, 48; univ. scholar, Indiana, 48-49, M.A, 52, Ph.D, 54; M.D, Colorado, 65. Trainee, U.S. Pub. Health Serv, 50-52; psychologist, La Rue Carter Mem. Hosp, Indianapolis, Ind, 54-55; instr. clin. psychol, MED. SCH, COLORADO, 55-58, asst. prof, 58-61, intern pediat, 65-66, res, 66-67, SPEC. FEL. PEDIAT, 67- Lectr, Denver, 55-57; consult, Denver Gen. Hosp, 56-59; Surgeon Gen. Off, Fitzsimmons Army Hosp, 58-61; Forest Heights Lodge, 59-61. Psychol. Asn. Psychological differences associated with brain damage; antisocial behavior in children and adolescents. Publ: Associations following varied learning conditions, J. Exp. Psychol; Performance on the children's form of the trail making test in a psychiatric population, Perceptual & Motor Skills, 65; WISC performance in acting-out and delinquent children with and without EEG abnormality, J. Consult. Psychol, 66. Address: Apt. 225, 17190 Mt. Vernon Rd, Golden, Colo. 80401.

CAMP, DR. DAVID SUMNER, b. Glen Ridge, N.J, Oct. 28, 36; m. 59; c. 3. PSYCHOLOGY. A.B, Col. William & Mary, 58, M.A, 61; U.S. Pub. Health Serv. fel, Brown, 63-64, Ph.D.(psychol), 65. Asst. instr. PSYCHOL, Col. William & Mary, 59-61; asst. prof, RHODE ISLAND, 64-68, ASSOC. PROF, 68- Nat. Inst. Ment. Health res. fels, 65-68. AAAS; Psychol. Asn. Animal behavior, punishment and aversive conditioning; visual perception; psychophysics, scaling. Publ: Co-auth, Change in reaction-time as a function of knowledge of results, Am. J. Psychol, 65; Response suppression as a function of the schedule of punishment, Psychonomic Sci, 66; Temporal relationship between response and punishment, J. Exp. Psychol, 67. Address: Dept. of Psychology, University of Rhode Island, Kingston, R.I. 02881.

CAMP, DR. HILLIARD D(ALE), b. Lansing, Mich, Oct. 11,13. SOCIOLOGY. A.B, Findlay Col, 39; A.M, Bowling Green State, 48; B.D, Winebrenner Sch. Divinity, 50; Ph.D.(relig), Western Reserve, 66. Prof. sociol, Findlay Col, 48-60; DIR. FIELD WORK, WINEBRENNER THEOL. SEM, 61- Pastor, First United Presby. Church, Findlay, 60- Sociol. Asn. Juvenile delinquents in North Baltimore, Ohio; sociological aspects of the rural church problems; William Penn and the doctrine of salvation. Address: R.F.D. 1, North Baltimore, Ohio 45872.

CAMP, DR. H(UEY) CARL, b. Walkerville, Ark, Aug. 16, 34; m. 56; c. 2. POLITICAL SCIENCE. B.S, South. State Col, 56; Heermanns fel, Washington (St. Louis), 59-60, univ. & Woodrow Wilson fels, 60-61, M.A, 60, Ph.D. (polit. sci), 65. Instr. POLIT. SCI, Newcomb Col, Tulane, 61-62; asst. prof, Tampa, 62-63; Southeast Mo. State Col, 63-66; assoc. prof, Western Kentucky, 66-67; asst. prof, NEBRASKA, OMAHA, 67-68, ASSOC. PROF, 68- Polit. Sci. Asn. Manifold problems of Latin American political development; especially ideology and political culture; political socialization, elites and leadership recruitment; revolutionary processes and political violence. Address: Dept. of Political Science, University of Nebraska at Omaha, Omaha, Nebr. 68101.

CAMP, DR. THOMAS C(LAYTON), b. Blakely, Ga, Feb. 28, 18; m. 47; c. 3. CLINICAL PSYCHOLOGY. B.S. & B.A, Denver, 49, M.A, 50, Ph.D.(psychol), 53. Clin. psychologist, Bluefield Ment. Health Center, W.Va, 53-54; CHIEF CLIN. PSYCHOLOGIST & DIR. DEPT. ELECTROENCEPHALOG, ST. ALBANS PRIVATE PSYCHIAT. HOSP, 54- U.S.A.A.F, 44-46. Psychol. Asn; Group Psychother. Asn. Group and individual psychotherapy; projective techniques; electroencephalography. Publ: Exploratory factorial study of three projective tests; Figure-ground concept in auditory perception, its relationship to psychopathology and visual perception. Address: Box 3608, Radford, Va. 24141.

CAMP, PROF. WESLEY D(OUGLASS), European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CAMPBELL, PROF. ALAN K(EITH), b. Elgin, Nebr, May 31, 23; m. 45; c. 2. POLITICAL SCIENCE. A.B, Whitman Col, 47; Volker fel, Wayne State, 47-48, M.P.A, 48; Sheldon traveling fel, Harvard, 50-51, M.P.A, 51, Ph.D.(polit. econ. & govt), 52. Instr. govt, Harvard, 52-54; prof. POLIT. SCI. & chmn. dept, Hofstra Col, 55-61; PROF, MAXWELL GRAD. SCH, SYRACUSE, 61- Vis. lectr, Harvard, 57; dep. comptroller for admin, State of N.Y, 60. Res. consult, N.Y. Cmn. Govt. Opers. City of New York, 59. Mem. exec. bd, Inter-Univ. Case Prog, 59; adv. cmt. to Cmt. Improvement Mgt. in Govt. & adv. bd, area develop. cmt, Cmt. Econ. Develop, 65; Cmt. Urban Econ. Resources for Future, 65; del-at-large, chmn. cmt. local govt & home rule, N.Y. State Constitutional Convention, 67. U.S.N.R, 43-46, Ens. Polit. Sci. Asn; Soc. Pub. Admin. Local government; administrative organization. Publ: Ed, Case studies in American government; co-auth, Metropolitan America: fiscal patterns and governmental systems, Macmillan, 67; Most dynamic sector, Nat. Civic Rev, 2/64. Address: Ten Eyck Ave, R.D. 1, Cazenovia, N.Y. 13035.

CAMPBELL, DR. ANGUS, b. Leiters, Ind, Aug. 10, 10; m. 40; c. 3. PSYCHOLOGY. B.A, Oregon, 31, M.A, 32; Ph.D.(psychol), Stanford, 36. Instr. psychol, Northwestern, 36-39; Soc. Sci. Res. Coun. fel, Cambridge, 39-40; asst. prof. psychol, Northwestern, 40-42; study dir, div. prog. surv, bur. agr. econ, U.S. Dept. Agr, 42-44, res. dir, 44-45, asst. head, 45-46; assoc. prof. PSYCHOL. & SOCIOL, MICHIGAN, 46-50, PROF, 50-, DIR, SURV. RES. CENTER, 49-, asst. dir, 46-48. Consult, div. behav. sci, Nat. Res. Coun, 67. Fel. Psychol. Asn; fel. Sociol. Asn; Asn. Pub. Opinion Res. Personality and culture; political psychology; survey research methods. Publ: The voter decides; The American voter; co-auth, Elections and the political order, Wiley, 66. Address: 1009 Berkshire Rd, Ann Arbor, Mich. 48104.

CAMPBELL, DR. A(RCHER) STUART, b. Lynchburg, Va, Aug. 13, 99; m. 32; c. 2. ECONOMICS. B.S, Pennsylvania, 24; M.S, Virginia, 28, Ph.D.(econ), 30. Prof, Emory & Henry Col, 30-31; prof. & dir. res, Florida, 31-40; economist, Tenn. Valley Authority, 40-48; Atomic Energy Cmn, 48-50; prof, Wake Forest Col, 50-51; ECONOMIST, Housing & Home Finance Agency, 51-53; STATE PORTS AUTHORITY, VA, 53- Consult, 35-40. U.S.A, 18-19. Econ. Asn. Foreign trade; taxation; industries and business conditions. Publ: Studies of foreign trade; Studies of taxation; Studies of timber resources, lumber, industry, naval stores industry. Address: 4216 Gosnold Ave, Norfolk, Va. 23508.

CAMPBELL, ARTHUR A(NDREWS), b. Brooklyn, N.Y, Feb. 8, 24; m. 61. DEMOGRAPHY, SOCIOLOGY. A.B, Antioch Col, 48. Ed. clerk, Metrop. Life Ins. Co, N.Y, 50-52; anal. statistician, U.S. Bur. Census, 52-56; res. assoc. prof, Scripps Found. Res. Pop. Probs, Miami (Ohio), 56-64; ASST. TO DIR. DEMOG. RES, DIV. VITAL STATIST, U.S. DEPT. HEALTH ED. & WELFARE, 64- U.S.N, 43-46, Lt.(jg). Pop. Asn; fel. Statist. Asn; Pub. Health Asn; Eugenics Soc; Int. Union Sci. Study Pop. Population projections; mortality and fertility analysis; eastern European demography. Publ: Co-auth, Family planning, sterility and population growth; Fertility and family planning in the U.S, Princeton, 66 & Trends and variations of fertility in the U.S, Harvard, 68. Address: Natality Statistics Branch, Division of Vital Statistics, Dept. of Health, Education & Welfare, Washington, D.C. 20201.

CAMPBELL, DR. B(OBBY) J(ACK), b. Ft. Worth, Tex, Oct. 12, 29; m. 57; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Texas Christian, 51, M.A, 53; Ph.D, North Carolina, 60. Res. assoc, inst. govt, Univ. North Carolina, 55-58, asst. dir, 58-59; res. adminstr, automotive crash injury res, Cornell, 59-60, asst. dir, 60-63, head accident res. br, Cornell Aeronaut. Lab, 63-66; DIR, HWY. SAFETY RES. CENTER, UNIV. NORTH CAROLINA, 66- Chmn. Gov. cmt, State Accident Prevention Clins, N.J, 60-61; chmn traffic accident data proj, Nat. Safety Coun, 65-; chmn. tech. cmt. on safety glazing, U.S. Standards Inst. & mem. Surgeon Gen. Cmn. Mil. Accidents, 66- Metrop. award, Nat. Safety Coun, 60. U.S.A, 48-49, Res, 49-53, Sgt. Psychol. Asn. Identification of injury-producing elements in automobile accidents; evaluation of design innovations for injury reduction; evaluation of state highway safety program effectiveness. Publ: Driver improvement: the point system; Improvement of driver license exams, Monogr, Inst. Govt, Univ. North Carolina; Automotive safety, In: Collier's Encyclop. Address: 502 Belmont St, Chapel Hill, N.C. 27514.

CAMPBELL, DR. BURNHAM O(RLANDO), b. Lincoln, Nebr, Aug. 28, 26; m. 47; c. 3. ECONOMICS. B.A, Stanford, 47; univ. fel, 52-53, Ford Found. fel, 56-57, Ph.D, 61. Asst. ECON, Fed. Reserve Bank of San Francisco, 47-49; instr, Knox Col, 54-55; Stanford, 55-56; Illinois, 57-61; asst. prof, California, Los Angeles, 61-67; ASSOC. PROF. & CHMN. DEPT, HAWAII, 67- U.S.N, 44-45. Econ. Asn. United States economic growth and fluctuations; macroeconomic theory. Publ: Population change and building cycles, Univ. Illinois, 66; Long swings in residential construction: the postwar experience, Am. Econ. Rev, 5/63. Address: Dept. of Economics, University of Hawaii, Honolulu, Hawaii 96822.

CAMPBELL, PROF. BYRON A(DAMS), b. Portland, Ore, Jan. 16, 27; m. 54; c. 1. PSYCHOLOGY. B.S, Washington, 50; M.S, Yale, 51, Ph.D.(psychol), 54. Nat. Sci. Found. fel, PSYCHOL, Harvard, 54-56; instr, PRINCETON, 56-58, asst. prof, 58-63, assoc. prof, 63-68, PROF, 68- AAAS; Psychonomic Soc; Psychol. Asn. Experimental psychology; animal learning and motivation. Publ: Co-auth, Punishment, Appleton, 68. Address: 111 Maclean Circle, Princeton, N.J. 08540.

CAMPBELL, DR. CARL, b. Middlebourne, W.Va, Sept. 13, 12; m. 43; c. 1. ECONOMICS, STATISTICS, B.A, Denver, 36; M.A, California, 46, Ph.D, 63. Asst, inst. indust. rels, California, 46-48, economist, 48-52; tax consult, 52-56; instr. & lectr, ECON, Massachusetts, 56-59, asst. prof, Whitman Col, 59-62; Carleton Col, 62-63; PORTLAND STATE COL, 63-67, ASSOC. PROF, 67- Econ. Asn; Economet. Soc; Asn. Comp. Econ. Theory of capital gains accruals and realization in relation to economic growth and income distribution, with annual estimates of accruals for the United States, including sector accounts, 1897-1956. Publ: Theory of wages since 1776: an annotated bibliography; Relation of capital gains to economic growth and income distribution: a sixty year summary, Proc. West. Econ. Asn. Address: Dept. of Economics, Portland State College, Portland, Ore. 97207.

CAMPBELL, PROF. CHARLES LAVERNE, b. Jerseyville, Ill, June 11, 24; m. 49; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. B.S. & B.A, Shurtleff Col, 55; fel, Washington (St. Louis), 55, M.B.A, 56; Mich. State, 58; Sloan fel, Mass. Inst. Tech, 59-60. Supvr. women assembly workers, Curtiss Wright Aircraft Co, 42-43; asst. mgr, Pub. Finance Co, Ill, 47-49, 55; chief property & supply & acct, Vet. Admin. Hosp, 49-52; asst. chief excess & surplus property sect, U.S. Army Engrs, 52-53; asst. bus, Washington (St. Louis), 55; teacher, sch. bus, Shurtleff Col, 55-57; ASSOC. PROF. ECON. & BUS. ADMIN. & COORDINATOR BUS. LEADERSHIP PROG, HILLSDALE COL, 57- Teacher, St. Louis Col. Pharmacy, 56; Monticello Col, 56-57; staff-exec, Mass. Inst. Tech, 59-60. Mgt. Asn; Soc. Adv. Mgt; Acad. Mgt. Employer-employee relationships, especially in the semantics of economics; better human relationships through better economic communications. Publ: Principles of advertising. Address: Dept. of Economics & Business Administration, Hillsdale College, Hillsdale, Mich. 49242.

CAMPBELL, PROF. CLAUDE A(RTHUR), b. Linden, Tenn, May 16, 03; m. 30. FINANCE, ECONOMICS. B.S, Middle Tenn. State Col, 28; M.A, Peabody Col, 28; fel, Vanderbilt, 29-30, Ph.D.(econ. & finance), 32. Instr. econ,

Alabama, 30-34; assoc. prof. econ. & polit. sci, Maryville Col, 34-39; econ, Oklahoma, 39-46; Wash. State Col, 46-52; PROF. FINANCE, SCH. BUS, FLA. STATE, 52- Finance Asn; Econ. Asn; Econ. Hist. Asn. Management. Publ: Old National Bank of Spokane; Development of Georgia's tufted textile industry; Securities regulation in Florida, South. J.Bus, 7/67. Address: 3001 Windsor Way, Tallahassee, Fla. 32303.

CAMPBELL, PROF. COLIN D(EARBORN), b. Cooperstown, N.Y, Feb. 10, 17; m. 49; c. 2. ECONOMICS. A.B, Harvard, 38; M.A, Iowa, 41; Ph.D.(econ), Chicago, 50; M.A, Dartmouth Col, 65. Instr. econ, Rensselaer Polytech, 46-47, asst. prof, Drake, 49-51; economist, bd. governors, Fed. Reserve Syst, 54-56; asst. prof. ECON, DARTMOUTH COL, 56-59, assoc. prof, 59-64; PROF, 64-, chmn. dept, 65-67. Tax economist, Brookings Korean Tax Adv. Group, Korea, 60; dir, Dartmouth Nat. Bank, 61-; mem. staff, adv. cmt. soc. security study, Nat. Bur. Econ. Res, New York, 67. U.S.A, 41-46, 51-53, Capt. Econ. Asn. Money and banking; government finance; comparative economic systems. Publ: Soviet price reductions for consumer goods, 1948-1954 & Some little understood aspects of Korea's monetary and fiscal systems, Am. Econ. Rev; co-auth, A measure of the importance of cyclical majorities, Econ. J, 12/65. Address: Dept. of Economics, Dartmouth College, Hanover, N.H. 03755.

CAMPBELL, DR. DAVID PHILLIP, b. Bridgewater, Iowa, Jan. 14, 34; m. 55; c. 3. PSYCHOLOGY. B.S, Iowa State, 55, M.S, 58; Ph.D.(psychol), Minnesota, 60. Indust. rels, Procter & Gamble Co, 55-57; asst. prof. PSYCHOL, MINNESOTA, MINNEAPOLIS, 60-63, ASSOC. PROF, 63- Res. grants, U.S. Off. Ed, 61-63, Nat. Insts. Health, 63-67 & Off. Econ. Opportunity, 65-67. Sig.C.Res, 56-, Capt. AAAS; Psychol. Asn; Personnel & Guid. Asn. Psychological testing, especially of vocational interests; long term career development. Publ: Results of counseling, Saunders, 65; Manual for strong vocational interest blank, Stanford, 66. Address: Dept. of Psychology, 101 Eddy Hall, University of Minnesota, Minneapolis, Minn. 55455.

CAMPBELL, PROF. D(ONALD) R(ALPH), b. Foxboro, Ont, Nov. 14, 18; m. 49; c. 3. AGRICULTURAL ECONOMICS. B.A, Toronto, 49; Rhodes scholar, Oxford, 49-51, B.A, 51. Lectr. agr. econ, Ont. Agr. Col, 51-52, prof. & head dept, 52-62; Ford Found. consult. econ, Hashimite Kingdom of Jordan, 62-64; PROF. DEVELOP. ECON. & ASSOC. DEAN FACULTY ARTS & SCI, TORONTO, 64- Mem. exec. coun, Soc. Sci. Res. Coun. Can, 60-61; mem. agr. task force, Govt. Can, 67- R.C.A.F, 42-45, Flight Lt; Distinguished Flying Cross & Bar. Can. Agr. Econ. Soc.(pres, 57-58); Agr. Inst. Can. (pres, 59-60). Economic development. Address: Dept. of Political Economy, University of Toronto, Toronto, Ont, Can.

CAMPBELL, PROF. DONALD THOMAS, b. Grass Lake, Mich, Nov. 20, 16; m. 42; c. 2. PSYCHOLOGY. A.B, California, 39, Soc. Sci. Res. Coun. fel, 46-47, Ph.D.(psychol), 47. Psychologist, Off. Strategic Serv, D.C, 41-43; asst. psychol, Inst. Child Welfare, Calif, 46; asst. prof. PSYCHOL, Ohio State, 47-50; Chicago, 50-53; assoc. prof, NORTHWESTERN, 53-58, PROF, 58- Fel, Center Adv. Study in Behav. Sci, 65-66. U.S.N, 43-46, Lt. Psychol. Asn. Social attitudes; attitude measurement; experimental design; psychology of knowledge processes and science. Publ: Co-auth, Experimental and quasi-experimental designs for research & Unobtrusive measures, 66, Rand McNally; The influence of culture on visual perception, Bobbs, 66. Address: Dept. of Psychology, Northwestern University, Evanston, Ill. 60201.

CAMPBELL, DR. DORIS K, b. Deer Creek, Ill, Oct. 28, 19. PSYCHOLOGY, EDUCATION. A.B, Augustana Col.(Ill), 30; A.M, Illinois, 31; Ed.D.(psychol), Florida, 62. Instr. psychol. & ed, Arlington Hall, Washington, D.C, 31-33; Cent. Acad. & Col.(Kans), 33-37; supvr. student teaching, Seattle Pac. Col, 37-39; instr. PSYCHOL, EAST TENN. STATE, 60-63, asst. prof, 63-66, ASSOC. PROF, 66- Fulbright-Hayes lectr, Philippines, 68-69. Psychol. Asn. Guidance and counseling; developmental psychology; history and systems in psychology. Address: Dept. of Psychology, East Tennessee State University, Johnson City, Tenn. 37601.

CAMPBELL, PROF. EARL C(LEVELAND), b. Elk River, Minn, Dec. 13, 01. POLITICAL SCIENCE. A.B, California, 23, A.M, 24, Ph.D, 26. Instr, Columbia, 26-27; prin, San Rafael Mil. Acad, 28-30; prof. POLIT. SCI, N.Mex. State Teachers Col, 30-31; SAN JOSE STATE COL, 31-59, EMER. PROF, 59-; PROF. POLIT. SCI, SOUTH. ORE. COL, 63- Prof. govt. & chief of party, Southern California Adv. Team Pub. Admin, Brazil, 59-61. Mem. bd. supvrs, Santa Clara County, Calif, 49-53. Polit. Sci. Asn; Soc. Pub. Admin. Local government in Columbia Basin. Address: 1048 W. 12th St, Medford, Ore. 97501.

CAMPBELL, PROF. ENID HOBART, b. Toronto, Ont, June 17, 27; nat; m. 54; c. 2. PSYCHOLOGY. A.B, Swarthmore Col, 48; M.A, Bryn Mawr Col, 51; Ph.D.(psychol), Yale, 57. Res. assoc. PSYCHOL, sch. med, Boston, 55-56; instr, TRENTON STATE COL, 58-59, asst. prof, 59-61, assoc. prof, 61-64, PROF, 64- Psychol. Asn. Child development and personality; psychopathology. Address: Dept. of Psychology, Trenton State College, Box 940, Trenton, N.J. 08625.

CAMPBELL, DR. ERNEST H(OWARD), b. Seattle, Wash, Oct. 9, 10. POLITICAL SCIENCE. A.B, Washington (Seattle), 32, LL.B, 35, M.A, 36; fel, Harvard, 41-42, M.A, 42, Ph.D, 45. Asst. prof. POLIT. SCI, WASHINGTON (SEATTLE), 46-60, res. assoc. prof, 60-64, RES. PROF, 64-, asst. dir, bur. govt. res. & servs, 46-60, assoc. dir, 60-66, acting dir, 66-67. U.S.N.R, 43-46, Lt. Comdr. Polit. Sci. Asn; Soc. Pub. Admin. State and local government; public law. Publ: Co-auth, Washington state government; The legislature and the legislative process in the state of Washington; Surveys, subdivision and platting and boundaries. Address: 4902 30th Ave. S, Seattle, Wash. 98108.

CAMPBELL, PROF. ERNEST Q(UEENER), b. Stephens, Ga, Sept. 15, 26; m. 49; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Furman, 45; M.A, Pennsylvania, 46; Ford Found. fel, Vanderbilt, 54-56, Ph.D.(sociol), 56. Instr. sociol. & psychol, Miss. South. Col, 47-48, asst. prof. sociol, 48-51; instr, Col. Wooster, 51-54; asst. prof, Fla. State, 56-57; Soc. Sci. Res. Coun. fel, lab. soc. rels, Harvard, 57-58; asst. prof. sociol, North Carolina, 58-61, assoc. prof, 61-63; PROF. SOCIOL. & ANTHROP. & CHMN. DEPT, VANDERBILT, 63- Vis. Rockefeller prof, East Africa, 68-69. Adv. ed, Houghton-Mifflin Co, 66- Mem. adv. rev. panel sociol. & soc. psychol, Nat. Sci. Found, 66-68. AAAS; Sociol. Asn. Race relations and desegregation in public schools; anger arousal and expression in relation to family structure; socialization experiences and deviance in late adolescence; educational performance and aspirations among Negro youth. Publ: When a city closes its schools; co-auth, Christians in racial crisis; auth, Internalization of a moral norm, Sociometry, 12/64. Address: Dept. of Sociology & Anthropology, Vanderbilt University, Nashville, Tenn, 37203.

CAMPBELL, GEORGE C, b. Orange Co, Ind, Nov. 28, 04; m. 29. ACTUARIAL SCIENCE, STATISTICS. A.B, Indiana, 26; M.S, Iowa, 30. Mem. tech. staff, Bell. Tel. Labs, 30-31; METROP. LIFE INS. CO, 31-47, asst. actuary, 47-53, assoc. actuary, 53-59, actuary, 60-65, V.PRES, 65- U.S.A, 42-45, Maj. Statist. Asn; fel. Soc. Actuaries; Econ. Asn; Inst. Math. Statist; Acad. Actuaries; Inst. Mgt; Tax Exec. Inst. Taxation. Publ: Study of the variance of the observed death rate when the exposure is estimated from a sample, Trans, Acturial Soc. Am; Problems with sampling procedures for reserve valuations, J. Am. Statist. Asn; co-auth, Applications of mathematical statistics to life insurance in the United States, Proc. 13th Int. Actuarial Cong. Address: Metropolitan Life Insurance Co, 1 Madison Ave, New York, N.Y. 10010.

CAMPBELL, DEAN IAN LACHLAN, b. Ottawa, Ont, Nov. 3, 27; m. 50; c. 4. SOCIOLOGY, CRIMINOLOGY. B.A, Carleton (Can), 51; M.Sc, London Sch. Econ, 53. Asst. prof. sociol, Mt. Allison, 53-65, dir. exten, 63-65; PROF. POLIT. SCI. & DEAN FACULTY ARTS, BISHOP'S (CAN), 65- Dir. res, Moncton Broadcasting, Ltd, 59- Consult, Can. Cmt. Corrections, 64-; mem, ad hoc cmt. univ. grants, Govt. Que, 65-67. Soc. Study Social Probs; Can. Sociol. Asn; Can. Polit. Sci. Asn; Can. Corrections Asn; Can. Inst. Communications; Int. Soc. Criminol. Family and small group experiences of criminals; roles of radio and television in leisure activities. Publ: Mount Allison family and group experience inventory: a preliminary report, Can. J. Corrections. Address: Bishop's University, Lennoxville, Que, Can.

CAMPBELL, DR. J. CHANDLER, b. Detroit, Mich, Sept. 6, 25; m. 54; c. 2. GUIDANCE, PSYCHOLOGY. B.A, Col. of Wooster, 50; M.Ed, Kent State, 52; Ph.D, Indiana, 59. Teacher, pub. schs, Ohio, 50-53; asst, bur. ed. placement, Indiana, 54-56; counsr-psychologist, guid. center, Bd. Coop. Ed. Serv, Westchester County, N.Y, 56-59; state supvr. scholar. tests, Ohio State Dept. Ed, 59-65; PSYCHOLOGIST, ROHRER, HIBLER & REPLOGLE, 65- Summers, instr, Toledo, 59; asst. prof, Ohio State, 60. U.S.A, 46-48, Sgt. Psychol. Asn; Personnel & Guid. Asn. Measurement and evaluation; individual assessment; executive development. Publ: Ohio completes three decades of scholarship testing, Ohio Schs; Conceptions about misconceptions about testing, Ohio Guid. News & Views; co-auth, College costs. Address: Rohrer, Hibler & Replogle, 1530 Guardian Bldg, Detroit, Mich. 48226.

CAMPBELL, DR. JAMES F(ULTON), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CAMPBELL, DR. JAMES H(ENRY), b. Canton, Ohio, Sept. 29, 31; m. 56; c. 3. BUSINESS COMMUNICATION, SOCIAL PSYCHOLOGY. B.A, Miami(Ohio), 56; Ph.D.(commun), Mich. State, 67. Instr. bus. commun, Oklahoma, 57-61; asst. instr. commun, Mich. State, 61-62, instr. bus. commun, 62-64; ASST. PROF. ORGN. SYSTS. BEHAV. & STATIST. & RES. DESIGN, DEPT. ADMIN, WICHITA STATE, 64- Consult, Fed. Aviation Agency, 60-61; agency develop. commun. seminars, Mich. State, 60-; Mich. Pub. Serv. Cmn, 62-63; Resources Develop. Corp, 62-66. U.S.A, 51-54. Soc. Study Commun; Col. Eng. Asn. Message systems analysis; behavioral control; linguistics. Publ: Co-auth, Dimensions in communication: readings, Wadsworth, 65. Address: 2623 N. Gentry, Wichita, Kans. 67220.

CAMPBELL, DR. JOEL T(ILLMAN), b. St. Petersburg, Fla, June 26, 20; m. 50; c. 4. PSYCHOLOGY. B.A, Florida, 40, M.A, 42; Ph.D, Ohio State, 52. Personnel res. asst, state tech. adv. serv, Soc. Security Admin, 46-47; res. psychologist, personnel res. sect, Adj. Gen. Off, U.S. Dept. Army, 48-52; asst. dir. personnel res. inst, Western Reserve, 52-55, assoc. dir. psychol. res. serv, 55-63; SR. RES. PSYCHOLOGIST, ED. TESTING SERV, 63- U.S.A, 42-46, Maj. Psychol. Asn; Psychomet. Soc. Personnel selection and evaluation. Address: Educational Testing Service, Princeton, N.J. 08540.

CAMPBELL, DR. JOHN D(OWLING), b. Lexington, Ill, Oct. 22, 21; m. 45; c. 2. SOCIAL PSYCHOLOGY. A.B, Knox Col, 43; A.M, Harvard, 49, fel, 49-51, Ph.D.(soc. psychol), 52. Asst. prof. psychol, Haverford Col, 51-56, act. chmn. dept, 54-56; SOC. PSYCHOLOGIST, LAB. SOCIO-ENVIRONMENTAL STUDIES, NAT. INST. MENT. HEALTH, NAT. INSTS. HEALTH, 56- Vis. fel, Oxford, 63-64. U.S.A, 43-46; Silver Star Medal. AAAS; Psychol. Asn; Soc. Res. Child Develop; Sociol. Asn. Social development; interpersonal relations; attitudinal, perceptual and behavioral change; methodology in social research. Address: Laboratory of Socio-Environmental Studies, National Institutes of Health, Bethesda, Md. 20014.

CAMPBELL, PROF. JOHN M(ARTIN), b. Sedro Woolley, Wash, May 5, 27; m. 49; c. 3. ANTHROPOLOGY. B.A, Washington, 50; New Mexico, 50-51, 54-55; Ph.D, Yale, 62. Asst. prof. ANTHROP, George Washington, 59-63; assoc. prof, 63-64; ASSOC. PROF. & CHMN. DEPT, NEW MEXICO, 64- Asst. ed, Am. Antiquity. U.S.N.R, 45-46; U.S.A.F, 51-54, Capt. Fel. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; fel. Arctic Inst. N.Am; Ornith. Union. Archaeology and ethnology of western North America, Pacific Basin and the northern regions. Publ: Kayuk complex of arctic Alaska, Am. Antiquity; ed, Prehistoric cultural relations between the arctic and temperate zones of North America, Arctic Inst. N.Am, 62; auth, Territoriality among ancient hunters: interpretations from ethnography and nature, Anthrop. Soc. Wash, 68. Address: Dept. of Anthropology, University of New Mexico, Albuquerque, N.Mex. 87106.

CAMPBELL, NEWELL, Econ, see 10th ed, Soc. & Behav. Vols.

CAMPBELL, PROF. NORRIS C, b. Lohn, Tex, Mar. 6, 20; m. 43; c. 6. PSYCHOLOGY, GUIDANCE. B.S, Abilene Christian Col, 53, Ed.M, 54; Ed.D, Colorado, 59. Asst. prof. PSYCHOL, ABILENE CHRISTIAN COL, 56-60, assoc. prof, 60-66, PROF. & HEAD DEPT, 66- Sig.C, U.S.A, 44-46, Sgt. Personnel & Guid. Asn; Psychol. Asn. Education; counseling. Address: 850 E.N. Tenth St, Abilene, Tex. 79601.

CAMPBELL, DR. ORION H(UBERT), b. Bogalusa, La, June 24, 30; m. 54; c. 2. PSYCHOLOGY. B.A, Southwestern at Memphis, 59; M.A, La. State, 61, Ph.D.(psychol), 63. Pres, Campbell Bldg. Supply, La, 54-58; res. asst, res. comput. center, La. State, 61-62; La. Dept. Ment. Health Hosp, Baton Rouge, 62-63, chief res. & statist. div, 63-66; ASST. PROF. PSYCHOL, LA. STATE, 66- Assoc, dept. psychiat. & neurol, Tulane, 63-66. Mem, Nat. Inst. Ment. Health, 63-66; chmn. south. region ment. health statist, South. Region Ed. Bd, 65-66. U.S.A.F, 50-53, S/Sgt. Computer utilization for diagnostic and prognostic psychiatric evaluation and treatment. Address: Dept. of Psychology, Louisiana State University, Baton Rouge, La. 70815.

CAMPBELL, O(RVIN) W(ATSON), b. Lodi, Calif, May 4, 06; m. 35; c. 2. POLITICAL SCIENCE. B.A, Stanford, 29; California, 31-33. Intern, Div. Admin. Res, Los Angeles County, 33-34; asst, Bur. Pub. Admin, California, 34-37; west. rep, Pub. Admin. Serv, 37-40; exec. secy, Calif. Coun. Defense, 40-41; assoc. regional coordinator, off. emergency mgt, Nat. Housing Agency, 41-42; west. rep, Coun. State Govts, 42-43; city mgr, San Jose, Calif, 46-49; San Diego, 49-57; county mgr, Dade County, Fla, 57-61; V.CHANCELLOR BUS. & FINANCE ADMIN. OFF, CALIFORNIA, BERKELEY, 61- Dir, Univ. Corp. Atmospheric Res, 65. U.S.A, 43-46, Lt. Col. Soc. Pub. Admin. Government public administration. Address: Office of The Chancellor, Business & Finance Administrative Offices, University of California, Berkeley, Calif. 94720.

CAMPBELL, DR. PERSIA, b. Australia, Mar. 15, 98. ECONOMICS. B.A, Sydney, 18, M.A, 20; James King traveling fel, London, 20, M.Sc, 23; for. scholar, Bryn Mawr Col, 23; Rockefeller Int. fel, 30-32; Ph.D, Columbia, 40. Res. economist, Indust. Cmn. New S.Wales, 26-29; from instr. to prof. ECON. & chmn. dept, QUEENS COL.(N.Y), 40-65, EMER. PROF, 65- Vis. prof, North Carolina, 65-66. Consumer counsel, Gov. of N.Y, 55-58; human resources admin, New York, 66-68; consult, UN Econ. & Soc. Coun, 65- Co-chmn, nat. coun, Food & Agr. Orgn, UN, adv. U.S. del, 48, 49, 51; mem, President's Consumer Adv. Coun, 62-65, President's Adv. Cmt. Trade Negotiations, 64-67. Chinese coolie emigration; American agricultural policy; consumer representation and consumer interest. Publ: Mary Williamson Harriman; United Nations report, international development review, Soc. Info. Develop. Quart, since 66. Address: 137-27 Geranium Ave, Flushing, N.Y. 11355.

CAMPBELL, PROF. RALPH N(ORTON), b. Minotola, N.J, Mar. 7, 10; m. 32; c. 2. INDUSTRIAL RELATIONS. A.B, Rutgers, 31; M.B.A, Harvard, 47. Asst. dir. pub. & alumni rels, Rutgers, 33-37; dir. personnel & placement, Rutgers, 37-40; PROF. INDUST. & LABOR RELS, N.Y. STATE SCH. INDUST. & LABOR RELS, CORNELL, 48-, ED, 56-, dir. exten, 48-56, 60-63, dir. summer session, 56-58, chmn. dept. human resources, 60. Chmn, Nat. Cmt. Study Grants in Adult Ed, 53-54. U.S.A, 40-45, Col. Indust. Rels. Res. Asn. Organization theory; values and ethics in business and labor organizations. Publ: Faculty-administration relationships: insights from industrial relations, Am. Coun. Ed, 57; co-auth, Business leadership in air transportation, N.Y. State Sch. Indust. & Labor Rels, Cornell, 59; auth, Education and leadership development-challenges to labor education, Nat. Inst. Labor Ed, 61. Address: New York State School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

CAMPBELL, DR. REX RANDALL, b. Jasper, Mo, Jan. 8, 31; m. 55. SOCIOLOGY. B.S, Missouri, Columbia, 52, M.S, 59, Ph.D.(rural sociol), 65. County exten. agent, MISSOURI, COLUMBIA, 54-58, res. asst. RURAL SOCIOL, 58-60, instr, 60-65, asst. prof, 65-66, ASSOC. PROF, 66- Res. grants, U.S. Dept. Labor, Dept. Health, Ed. & Welfare & Mo. Cmn. Higher Ed, 65-67. U.S.A, 52-54. Sociol. Asn; Rural Sociol. Soc; Pop. Asn. College enrollments; student aspirations; poverty; migration; population projections. Publ: Co-auth, beyond the suburbs: the changing rural life, Lucas Bros, 67; Auth, A suggested paradigm of the individual adoption process, Rural Sociol, 12/66. Address: Dept. of Rural Sociology, 104 Sociology, University of Missouri, Columbia, Mo. 65201.

CAMPBELL, DR. RICHARD A, b. Cleveland, Ohio, July 20, 29; m. 57; c. 2. EXPERIMENTAL PSYCHOLOGY & AUDIOLOGY. B.S, Western Reserve, 56, M.S, 58; Ph.D, Iowa, 62. Res. asst, Western Reserve, 56-58; res. audiologist, med. center, California, San Francisco, 58-59; res. asst, Iowa, 59-62; res. psychologist, U.S. Navy Electronics Lab, San Diego, Calif, 62-63; res. audiologist, Vet. Admin. Regional Off, Atlanta, Ga, 63-64; ASSOC. PROF. SPEECH PATH, CASE WESTERN RESERVE, 64- U.S.A.F, 50-54, S/Sgt. Speech & Hearing Asn; Acoustical Soc. Audition; psychoacoustic; psychophysical methodology; instrumentation. Publ: Discrimination test word difficulty, J. Speech & Hearing Res, 8: 13-22; Auditory intensity perception and neural coding, 39: 1030-1033 & A computerized investigation of threshold decision phenomenon, 39: 1034-1036, J. Acoustical Soc. Am. Address: Dept. of Speech Pathology, Case Western Reserve University, University Circle, Cleveland, Ohio 44106.

CAMPBELL, DR. RICHARD F, b. Bozeman, Mont, Jan. 6, 22; m. 57. PSYCHOLOGY. A.B, Guilford Col, 48; M.A, Alabama, 52; Ph.D.(marriage, family), Fla. State, 60. Instr. psychol. & sociol, Gulf Park Col, 53-57; assoc. prof. MARRIAGE & FAMILY, Mississippi, 60-63; ASSOC. PROF, SAN FERNANDO VALLEY STATE COL, 63- Vis. expert, Los Angeles City Schs, 67-68. U.S.A, 43-45. Sociol. Asn; Asn. Marriage Counsr; Home Econ. Asn. Premarital intimacy, especially norms, values and behavior among college students. Address: San Fernando Valley State College, 18111 Nordhoff St, Northridge, Calif. 91324.

CAMPBELL, DR. RITA RICARDO, b. Boston, Mass, Mar. 16, 20; m. 46; c. 3. ECONOMICS. B.S, Simmons Col, 41; M.A, Radcliffe Col, 45, Ph.D.(econ), 46. Asst. econ, Harvard, 42-44, teaching fel. & tutor, 46-47, instr, 47-48; asst. prof, Tufts, 48-51; labor economist, U.S. Wage Stabilization Bd, 51-53; economist, ways & means cmt, U.S. House Reps, 53; consult. economist, 57-60; vis. prof. indust. rel, San Jose State Col, 60-61; ARCHIVIST & RES. ASSOC, HOOVER INSTN. WAR, REVOLUTION & PEACE, STANFORD, 61- Cmnr, West. Interstate Cmn. Higher Ed, 67- Soc. Archivists; Econ. Asn. Health insurance; pension and welfare plans; life and work of Herbert Hoover. Publ: Compulsory health insurance: economic issues, Quart. J. Econ; Economic environment of prepayment and insurance, 1st Nat. Cong. Socio-Econ. Health Care, Am. Med. Asn, 1/67; Automation and information retrieval in archives: the broad concepts, Am. Archivist, 4/67. Address: 26915 Alejandro Dr, Los Altos Hills, Calif. 94022.

CAMPBELL, PROF. ROBERT, b. San Mateo, Calif, Apr. 4, 21; m. 43; c. 2. ECONOMICS. A.B, California, 47, Ph.D.(econ), 53; B.S, U.S. Merchant Marine Acad, 50. Asst. prof. ECON, Illinois, 49-52; OREGON, 52-59, from assoc. prof. to PROF, 59- Econ. Asn. History of economic thought; regional economic development; structure of business enterprise and public policy. Publ: Sir James Steuart, a study in the development of economic thought; The changing nature and theoretical basis for government welfare policy, Proc. West. Econ. Asn. Address: 3575 Glen Oak Dr, Eugene, Ore. 97405.

CAMPBELL, DR. ROBERT BLAIR, b. Herrin, Ill, Jan. 3, 23; m. 49; c. 5. SOCIOLOGY. B.S, Southern Illinois, 44; B.A, Ind. State Teachers Col, 44; M.S, Wisconsin, 51, Ph.D, 56. From asst. prof. to prof. sociol. & chmn. dept, North Dakota, 51-62; ASSOC. PROF. SOCIOL, SOUTHERN ILLINOIS, 62-, chmn. dept, 63-64, dean soc. sci. div, 65-67. U.S.N.R, 42-45, Lt.(jg). Fel. Sociol. Asn; Acad. Polit. & Soc. Sci. Social structure and stratification; bureaucracy. Publ: Co-auth, Williston Report. Address: 2120 Country Club Dr, Alton, Ill. 62002.

CAMPBELL, PROF. ROBERT DALE, b. Omaha, Nebr, Dec. 2, 14; m. 41; c. 1. GEOGRAPHY. B.A, Colorado, 38, M.A, 40; Ph.D, Clark, 49. Cartogr, Off. Strategic Servs, Wash, D.C, 42-43; geogr, Off. Qm. Gen, U.S. Dept. Army, 46-47; prof. geog. & chmn. dept, George Washington, 47-64; regional planning consult, Ford Found, Calcutta, India, 64-66; V.PRES, MATRIX CORP, ALEXANDRIA, VA, 66- Fulbright lectr, faculty arts, Alexandria, Egypt, 52-53; dept. geog, Univ. Peshawar, Pakistan, 57-58; summer, meteorologist, Mosquito Control Proj, Alaska, 47; lectr, Conf. Am. Studies, Oxford, 55; prin. investr, Outdoor Recreation Resources Rev. Cmn, 60-61; urban planning data syst. proj, Md-Nat. Capital Parks & Planning Cmn, 61-; assoc. dir. tech. asst. proj, Southwest. Pa. & dir, Planning Study Pine Ridge, S.Dak, 62-63; prin. investr. open space study, Nat. Capital Planning Cmn, Wash, D.C, 63-64. Consult, Off. Qm. Gen, U.S. Dept. Army, 47-49; Off. Naval Res. Logistics Res. Proj, George Washington, 49-57, U.S. Corps Eng. Historical Records Proj, 53-57, chmn. theory group, U.S. Army Logistics Res. Proj, 55-56, prin. investr, Qm. Intel. Res. Proj, 58-60; consult, spec. opers. res. off, American Univ, 59-61; Arctic Evaluation study, Arctic Inst. N.Am, 60-; pkwy. impact study, Nat. Park Serv, 61- U.S.A, 43-46. Asn. Am. Geog. Regional Sci. Asn. Publ: Pakistan: emerging democracy, Van Nostrand, 63; co-auth, A question of place, Beatty, 67 & Regional planning for India, Asia Pub. Co, (in press). Address: 8219 Lilly Stone Dr, Bethesda, Md. 20034.

CAMPBELL, DEAN ROBERT F(RANCIS), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CAMPBELL, DR. ROBERT M, b. Oakland, Calif, Sept. 5, 40; m. 65. MARKETING, ENGINEERING. B.E.E, Santa Clara, 61; M.B.A, California, Los Angeles, 63, Ph.D.(mkt, psychol, statist), 66. Sr. consult, Mgt. Tech, Inc, Calif, 66-67; DIR. INDUST. ANAL, LEAR, SIEGLER, INC, LOS ANGELES, 67- U.S.A.R, 63. World Future Soc; Am. Mkt. Asn; Systs. & Procedures Asn. Techniques and applications of group forecasting in industry from idea conceptualization through translation into corporate long-range and short-range plans. Address: 16983 Escalon Dr, Encino, Calif. 91316.

CAMPBELL, PROF. ROBERT W(ELLINGTON), b. Wichita, Kans, Feb. 4, 26; m. 50; c. 5. ECONOMICS. A.B, Kansas, 48, M.A, 50; M.A, Harvard, 52, Ph.D, 56. Instr. ECON, Southern California, 55-57, asst. prof, 57-60; vis. assoc. prof, California, 60; assoc. prof, INDIANA, 61-63, PROF, 63- U.S.A, 45-46. Econ. Asn; Asn. Adv. Slavic Studies. Accounting, planning management and oil industry of Soviet economic system; Soviet economic analysis; Marxist economic theory. Publ: Soviet economic power; Accounting in Soviet planning and management, Harvard, 63. Address: Dept. of Economics, College of Arts & Sciences, Indiana University, Bloomington, Ind. 47401.

CAMPBELL, DR. SAM L(EWIS), b. Bakersfield, Calif, Sept. 1, 23; m. 47; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Chapman Col, 45; A.M, Indiana, 52, fel, 53-55, Ph.D, 58. Asst. psychol. & tutor German, Whittier Col, 44-45; asst. psychol, Indiana, 45-49; asst. prof, Redlands, 49-51; statistician, Northrop Aircraft, Inc, 51-53; res. scientist, Creedmoor Inst. Psychobiol. Studies, 56-65; ASSOC. PROF. PSYCHOL, TEX. TECH. COL, 65- Adj. asst. prof, Hofstra Col, 59-60. AAAS; Psychol. Asn. Learning theory; aversive control of behavior; psychogenetics; experimental design; quantitative methods and scaling. Address: Dept. of Psychology, Texas Technological College, Lubbock, Tex. 79409.

CAMPBELL, PROF. THOMAS C(ORWITH), JR, b. Enfield, Va, Mar. 19, 20; m. 43; c. 2. ECONOMICS. A.B, Lynchburg Col, 42; A.M, Pittsburgh, 47, Ph.D, 48; Wisconsin, 47. Asst. prof. econ. & bus. admin, WEST VIRGINIA, 48-53, assoc. prof. ECON, 53-58, PROF, 58-, DEAN COL. COMMERCE, 61- U.S.N.R, 42-46, Capt. Econ. Asn. Transportation freight rates. Publ: When a utility franchise expires, Pub. Utilities Fortnightly; Transportation and regional economic development, Transportation J, 63; Freight rates of West Virginia wood products, W.Va. Univ. Bur. Bus. Res, 65. Address: West Virginia University College of Commerce, Morgantown, W.Va. 26506.

CAMPBELL, DR. T(HOMAS) N(OLAN), b. Munday, Tex, July 3, 08; m. 40; c. 1. ANTHROPOLOGY. A.B, Texas, 30, A.M, 36; A.M, Harvard, 40, Ph.D, 47. Tutor ANTHROP, TEXAS, AUSTIN, 34-36, instr, 38-40, asst. prof, 41-47, assoc. prof, 47-52, PROF, 52-, chmn. dept, 47-62. Ed, Tex. J. Sci, 53-56. Collab, Nat. Park Serv, 56- U.S.A, 41-45, Capt. Am. Anthrop. Asn;

Soc. Am. Archaeol.(ed, Am. Antiquity, 62-66); N.Y. Acad. Sci; Mexican Anthrop. Soc. Archaeology of Texas and adjoining areas; ethnology of Indians of the southeastern and southwestern United States; folklore of historic Indians of southeastern United States. Address: Dept. of Anthropology, University of Texas, Austin, Tex. 78712.

CAMPBELL, DR. W. GLENN, b. London, Ont, Apr. 29, 24; nat; m. 46; c. 3. ECONOMICS. B.A, Western Ontario, 44; M.A, Harvard, 46, Ph.D.(econ), 48. Instr. econ, Harvard, 48-51; res. economist, U.S. Chamber Commerce, 51-54; dir. res, Am. Enterprise Asn, 54-59; DIR. HOOVER INST. WAR, REVOLUTION & PEACE, STANFORD, 60- Co-dir. spec. proj, Senate Spec. Cmn. Study For. Aid Prog, 56-57. Econ. Asn. Federal legislation; public finance; industrial organization and control; international economic relations. Publ: American competitive enterprise economy; Voluntary health insurance in the U.S. Address: Hoover Institution on War, Revolution & Peace, Stanford University, Stanford, Calif. 94305.

CAMPBELL, PROF. WARREN M(ARTIN), b. Montevideo, Minn, June 29, 24; m. 47; c. 3. POLITICAL SCIENCE, URBAN PLANNING. B.A, Minnesota, 48; Fulbright fel, London Sch. Econ, 52-53; M.A, Stanford, 55, Ph.D.(polit. sci), 63. Instr. polit. sci, Colgate, 56-58; San Francisco State Col, 58-59; Interuniv. Case Prog. res. grant, 59-60; exten. specialist, California, 60-61; asst. prof. POLIT. SCI, SAN FERNANDO VALLEY STATE COL, 61-64, assoc. prof, 64-67, PROF, 67-, CHMN. CENTER URBAN STUDIES, 66- U.S.A, 43-46. Polit. Sci. Asn. Politics of urban planning; decision making in city planning; use of a general plan as an instrument for policy formulation and control. Address: Dept. of Political Science, San Fernando Valley State College, 18111 Nordhoff St, Northridge, Calif. 91324.

CAMPISI, PROF. PAUL J, b. Chicago, Ill, Jan. 25, 12; m. 41; c. 1. SOCIOLOGY. B.A, Arizona, 38; M.A, Chicago, 42, Soc. Sci. Res. Coun. fel, 43-44, Ph.D, 48. Instr. sociol, Wilson City Jr. Col, Ill, 42-43; U.S. Army Univ. (Italy), 45; Indiana, 46; asst. prof, Washington (St. Louis), 46-48, assoc. prof, 48-59; PROF. SOCIOL, SOUTHERN ILLINOIS, 59-, CHMN. BEHAV. SCI. FACULTY, 67-, chmn. dept. sociol, 59-65. Fulbright sr. res. fel, Italy, 52-54. Ed, Midwest Sociologist, 56-59; Sociol. Quart, 60- Fel. Sociol. Asn; Sociol. Res. Asn. Social psychology; community research; village and social research in Italy; acculturation of Italians in United States. Address: Behavioral Science Faculty, Southern Illinois University, Edwardsville, Ill. 62025.

CAMU, DR. PIERRE, b. Montreal, Que, Mar. 19, 23; m. 50; c. 3. ECONOMIC GEOGRAPHY, TRANSPORTATION. B.A, Montreal, 44, M.A, 47, Ph.D.(econ. geog), 51; Hopkins, 47-49. With, Dept. Mines & Tech. Surv, 49-56; dir. res. center, sch. commerce, Laval Univ, 56-60; v.pres, ST. LAWRENCE SEAWAY AUTHORITY, 60-65, PRES, 65- Royal Can. Geog. Soc.(pres). Port studies; commodities studies; economic geography of the United States and Western Europe. Publ: Co-auth, Economic geography of Canada, Macmillan, 64. Address: Place de Ville, 112 Kent St, Ottawa 4, Ont, Can.

CANADY, PROF. HERMAN G(EORGE), b. Okmulgee, Okla, Oct. 9, 01; m. 34; c. 2. PSYCHOLOGY. A.B, Northwestern, 27, A.M, 28, Gen. Ed. Bd. fel, 39-41, Ph.D.(psychol), 41. PROF. PSYCHOL. & HEAD DEPT, W.VA. STATE COL, 28- AAAS; Psychol. Asn. Differential, social and clinical psychology. Address: Dept. of Psychology, West Virginia State College, Institute, W.Va. 25112.

CANAVAN, FRANCIS, S.J, b. New York, N.Y, Oct. 27, 17. POLITICAL SCIENCE. B.S, Fordham, 39, M.A, 47; Rockefeller Found. fel, Duke, 54-55, Ph.D.(polit. sci), 57. Asst. prof. polit. sci, St. Peter's Col, 56-60; assoc. ed, America Mag, 60-66; ASSOC. PROF. POLIT. SCI, FORDHAM, 66-, acting chmn. dept, 67-68. Rockefeller Found. fel. polit. sci, 61-62. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Political thought of the 18th century; church-state relations in United States constitutional law. Publ: Political reason of Edmund Burke, Duke Univ, 60; co-auth, History of political philosophy, Rand McNally, 63; Ecumenism and Vatican II, Bruce, 64. Address: Dept. of Political Science, Fordham University, Rose Hill Campus, Bronx, N.Y. 10458.

CANBY, DR. JOEL S(HACKELFORD), b. Denver, Colo, Aug. 1, 19; m. 61; c. 3. ANTHROPOLOGY. B.A, Colo. Col, 41; M.A, Harvard, 48, univ. fels, 46-49, Viking Fund fel. & Ph.D.(anthrop), 49. Dir. & prof, Inst. Adv. Anthrop. Studies, Guatemala, 49-50; res. assoc, Mid. East Inst, D.C, 50-52; prof. anthrop. & chmn. dept. soc. rel, Univ. Col, Baghdad, 50-54; prof. anthrop. & coordinator, human rel, State Univ. N.Y. Col. Ed.(New Paltz), 55-57; human factors scientist, Syst. Develop. Corp, 58-59, sect. head adv. training, 59-62; supvr. Apollo crew simulation test, N.AM. AVIATION, INC, 62-66, MGR. MAN/MACH. SYSTS, LIFE SCI, 66- Lectr, Acad. Sci, Guatemala, 50; San Fernando Valley State Col, 58-59; California, Los Angeles, 59. Consult, Ministry Soc. Affairs, Iraq, 52-53. Dir, Harvard exped, Honduras, 48. U.S.A, 42-46, Lt. Anthrop. Asn; Soc. Appl. Anthrop; Human Factors Soc; Acad. Polit. & Soc. Sci. Middle East and Middle American cultures; culture and personality; small group dynamics; learning theory; perception; man-machine relations; operations analysis; measurement of system performance. Publ: Co-auth, Civilizations of ancient America; Shammar tribe, Newsletter; Culture areas of the middle east, 59. Address: 16812 Livorno Dr, Pacific Palisades, Calif. 90272.

CANCIAN, DR. FRANCESCA M, b. New York, N.Y, Oct. 31, 37; m. 59; c. 2. SOCIOLOGY. B.A, Reed Col, 58; Ph.D.(sociol), Harvard, 63. Res. assoc. SOCIOL, Stanford, 64-66; ASST. PROF, CORNELL, 66- Nat. Inst. Ment. Health fel, 65-66; Nat. Sci. Found. res. grant, 66-68. Sociol. Asn; Anthrop. Asn. Comparative family organization; sociological theory; field methods; Latin America. Publ: Functional analysis of change, 60 & Interaction patterns in Zinacanteco families, 64, Am. Sociol. Rev; Varieties of functional analysis, Int. Encyclop. Soc. Sci, 68. Address: Dept. of Child Development & Family Relationships, Cornell University, Ithaca, N.Y. 14850.

CANCIAN, DR. FRANCIS ALEXANDER, b. Stafford Springs, Conn, Aug. 14, 34; m. 59; c. 2. ANTHROPOLOGY. B.A, Wesleyan, 56; Ph.D.(soc. anthrop), Harvard, 63. Instr. soc. anthrop, Harvard, 63-64; asst. prof. ANTHROP, Stanford, 64-66; ASSOC. PROF, CORNELL, 66- For. area fel. Latin Am. studies, 66-68. Anthrop. Asn; Latin Am. Studies Asn. Social and economic anthropology; stratification; metatheory; methodology; Middle America. Publ: Economics and prestige in a Maya community, Stanford, 65; Political and religious organizations, In: Handbook Middle Am. Indians, Vol. VI, 67; Stratification and risk-taking: a theory tested on agricultural innovation, Am. Sociol. Rev, 67. Address: Dept. of Anthropology, Cornell University, Ithaca, N.Y. 14850.

CANDLAND, PROF. DOUGLAS K(EITH), Psychol, see 11th ed, Phys. & Biol. Vols.

CANDON, DR. VERA ANNE, b. Cleveland, Ohio, Jan. 26, 10. PSYCHOLOGY. B.S, Ohio State, 32, M.A, 37; Ph.D, Western Reserve, 54. Psychologist, Cleveland Bd. Ed, 37-56; Coordinator spec. servs, Berea Bd. Ed, 56-64; PSYCHOLOGIST, CENTER RIDGE MED. BLDG, 64- Lectr, Western Reserve, 51-60; Ohio State, 62-64; Cleveland State, 64- Consult, Lorain County Spec. Serv. Proj, 67- AAAS; Psychol. Asn; World Fedn. Ment. Health. Child and adolescent psychology; clinical psychology; education, especially in-service training of teachers in mental hygiene. Publ: Slow-learning child; Analysis of personality traits of children from broken homes. Address: 22319 Spencer Lane, Cleveland, Ohio 44126.

CANGELOSI, PROF. VINCENT E, b. Baton Rouge, La, Feb. 5, 28; m. 52; c. 5. MANAGEMENT SCIENCE, BUSINESS STATISTICS. B.S, La. State, 54, M.B.A, 56; Nat. Sci. Found. fel, N.C. State, summer 59; Ph.D.(econ), Arkansas, 61. Instr. bus. statist, Arkansas, 56-57, asst. prof, 57-58, 60-63, assoc. prof, 64-65; instr. mgt. & bus. statist, La. State, 59-60; Nat. Sci. Found. sci. faculty fel, grad. sch. indust. admin, Carnegie Inst. Tech, 63-64; assoc. prof, STATIST. & MGT. SCI, Texas, 65-67, PROF, LA. STATE, 67- Participant, Ford Found. summer seminar, grad. sch. indust. admin, Carnegie Inst. Tech, 62. Consult, Midwest Res. Inst, 62-63; Off. Econ. Opportunity, 66- U.S.A, 50-52. Econ. Asn; Inst. Mgt. Sci; Acad. Mgt. Information and decision behavior; strategic planning and management by predictive acceptance; cognitive frustration and learning. Publ: Compound statements and mathematical logic, C.E. Merrill, 67; co-auth, An experiment in model building, Behav. Sci, 66 & Organizational learning: Observations toward a theory, Admin. Sci. Quart, 65. Address: Himes 117 B, College of Business Administration, Louisiana State University, Baton Rouge, La. 70803.

CANISIA, SISTER MARY, S.S.N.D, Sociol, see 10th ed, Soc. & Behav. Vols.

CANKARDAS-WYSOCKI, DR. AYDIN, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

CANN, DR. KENNETH THOMAS, b. New York, N.Y, Apr. 29, 26; m. 61. ECONOMICS. B.S, Georgetown, 50; M.A, Indiana, 60, Ph.D.(econ), 67; Midwest Univs. Consortium grant, 64-65. Real property officer, Fed. Housing Admin, Ind, 56-59; teaching asst. ECON, Indiana, 60-62, lectr, Southeast. Campus, 62-63; instr, Wisconsin, 63-65; lectr, INDIANA, SOUTHEAST. CAMPUS, 65-67, ASST. PROF, 67- U.S.A, 44-46. Econ. Asn. Monetary theory; urban economics; Latin American economic development and problems, especially the Brazilian economy. Publ: Inter-governmental revenue transfers in Brazilian municipal finance, Monogr, Land Tenure Center, Univ. Wisconsin, 68. Address: Dept. of Economics, Indiana University Southeastern Campus, Jeffersonville, Ind. 47130.

CANNEY, JOHN P(ATRICK), b. Charlestown, Mass, Sept. 19, 21; m. 48; c. 3. PSYCHOLOGY. B.A, Northeastern, 48; M.A, Ohio State, 50. Psychologist, Ohio Penitentiary, 51-52; dir. psychol. servs, London Correctional Inst, 52-61; Ohio Penitentiary, 61-63, dep. warden treatment, 63-66; ASSOC. SUPT. TREATMENT, LONDON CORRECTIONAL INST, 66- Mem. bds, Community Library & County Ment. Retardation: adv. cmt, Ohio State Library. Publ: Teaching social values, Prec. Am. Correctional Asn, 61-; contrib, Ohio manual of applied correctional psychology. Address: 176 S. Center St, West Jefferson, Ohio 43162.

CANNING, PROF. JOHN B(ENNET), Econ, see 10th ed, Soc. & Behav. Vols, deceased 62.

CANNING, PROF. RAY R(USSELL), b. Afton, Wyo, May 7, 20; m. 41; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.S, Utah State, 42; M.S, Brigham Young, 48; Southern California, 48; Ph.D.(sociol), Utah, 56. From instr. to assoc. prof. SOCIOL, Brigham Young, 47-59; from assoc. prof. to PROF, UTAH, 59-, dir. summer sch, 59-61, asst. dean col. letters & sci, 61-63, acting dean, 63-64; dir. Utah Training Center, 61-67. Training & res. grants for exp. in prev. & control of juvenile delinquency, 61-67. Consult, Utah Legis. Coun, Utah's Juvenile Court Syst. & Salt Lake County Detention Center, 59- Mem, West Coast Conf. for Small Group Res, 59- Sociol. Asn. Small group research; juvenile delinquency, mental health and social psychiatry; marriage and family relationships; social psychology. Publ: Co-auth, Sociology: an introductory text with readings, Brigham Young, 60; auth, Social psychiatry; readings in mental health, 68. Address: Dept. of Sociology, University of Utah, Salt Lake City, Utah 84112.

CANNON, PROF. ANTHON S(TEFFENSEN), Sociol, see 10th ed, Soc. & Behav. Vols.

CANNON, ARTHUR M(ONROE), Bus. Admin, see 10th ed, Soc. & Behav. Vols, deceased 63.

CANNON, PROF. KENNETH LYNN, b. Salt Lake City, Utah, Dec. 22, 13; m. 42; c. 5. RURAL SOCIOLOGY, FAMILY RELATIONS. B.S, Brigham Young, 35; M.S, Iowa State, 48, Ph.D, 54. Asst. rural sociol, Iowa State, 38-39, asst. instr. sociol, 47-48; head cost acct, George A. Fuller, Geneva Steel, Utah, 42-43; asst. prof. marriage & family rel, col. agr, Nebraska, 48-53, assoc. prof, 53-56, mem, exp. sta. staff, family life res, agr. exp. sta, 48-56; assoc. prof. family rel, Brigham Young, 56-57, prof, 57-62; prof. & chmn. dept. home & family life, Tex. Tech. Col, 62-63; PROF. FAMILY REL, BRIGHAM YOUNG, 63- Vis. prof, Arizona State, 65; Nebraska, 66.

Coun. Family Rel; Rural Sociol. Soc; Home Econ. Asn. Age at marriage; social factors related to divorce; stability of sociometric scores of high school youngsters; rural-urban differences. Publ: Ed, Selected readings in marriage and the family, 65, revised ed, 67, auth, Marriage preparation, 64 & What you bring to marriage, 65, revised ed, 67, Brigham Young Univ. Address: Dept. of Human Development, Brigham Young University, Provo, Utah 84601.

CANNON, DR. L(ARRY) DENNIS, b. Neenah, Wis, Oct. 3, 33. PSYCHOLOGY, STATISTICS. B.A, Wisconsin, 55; fel, Purdue, 55-56, M.S, 57, Ph.D.(psychol), 59. Asst. statist, Purdue, 58-59; res. assoc. PSYCHOL, HumRRO, George Washington, 59-60, res. scientist, 60-63, sr. scientist, 63-67; ASST. PROF, PURDUE, 67- Psychol. Asn. Industrial and social psychology; psychological statistics; operant conditioning. Address: Purdue University, Ft. Wayne Campus, Ft. Wayne, Ind. 46805.

CANNON, PROF. MARK W(ILCOX), b. Salt Lake City, Utah, Aug. 29, 28; m. 56; c. 3. POLITICAL SCIENCE, ECONOMICS. B.A, Utah, 49; fel. & M.A, Harvard, 54, M.P.A, 55, Ph.D.(polit. econ, govt), 61. Res. assoc, Dan E. Clarke Opinion Researchers, 52; res. analyst, Utah Found, 53; freshman proctor, Harvard, 53-55, adv, 54-55; instr. polit. sci, Brigham Young, 55; admin. asst. to Congressman H.A. Dixon, 56-61; assoc. prof. polit. sci. & chmn. dept, Brigham Young, 61-64; dir. Venezuelan urban develop. proj, INST. PUB. ADMIN, 64-65, assoc. dir. & dir. int. progs, 65-68, DIR, 68- Secy, Utah Sch. Merit Study Cmt, 54. West. Polit. Sci. Asn. award, 63. Polit. Sci. Asn; Soc. Pub. Admin; Soc. Int. Develop. Urban development; Utah State government; international technical assistance; development administration; training for the public service. Publ: Co-auth, The makers of public policy: American power groups and their ideologies, McGraw, 65 & The challenge of urban development in Valencia, Found. Community Develop. & Munic. Improv, Venezuela, 67; auth, The value of participatory training for the public service in Latin America, Conf. Ed. & Res. Pub. Serv. Latin Am, 67. Address: Institute of Public Administration, 55 W. 44th St, New York, N.Y. 10036.

CANNON, DR. ROBERT C(HARLES), b. Denver, Colo, Jan. 23, 26; m. 48; c. 4. CLINICAL PSYCHOLOGY. A.B, Denver, 50, M.A, 51; Ph.D, Colorado, 55. Clin. psychologist, Vet. Admin. Hosp, North Little Rock, Ark, 55-62, chief psychol. serv, Memphis, Tenn, 62-67; ASSOC. PROF. PEDIAT, TENNESSEE & COORDINATOR TRAINING, CHILD DEVELOP. CENTER, 67- Instr, grad. center, Arkansas, 59-62; adj. assoc. prof, Memphis State, 63- U.S.C.G. & U.S.N, 43-46. Psychol. Asn. Diagnostic testing; physiological psychology; graduate education. Address: 5575 Jamestown Rd, Memphis, Tenn. 38118.

CANNON, PROF. W(ILLIAM) JOHN, b. S.Wales, Sept. 16, 08; nat; m. 31; c. 1. PSYCHOLOGY. M.A, Theol. Sem, 54, B.D, 56; Ph.D, American Univ, 59. Dir. field work & prof. appl. theol, Potomac Univ, 57-60; PROF. PSYCHOL, COLUMBIA UNION COL, 60-, CHMN. DEPT. BEHAV. SCI, 62- Counseling psychologist, Oaklea Hall & clin. psychologist, rehab. center, Wash. Sanitarium & Hosp; psychologist, Cedarcroft Sanitarium & Hosp, Silver Spring, Md, 58-62. Civil Defense, 42-45. AAAS; Orthopsychiat. Asn; Psychol. Asn; Sociol. Asn; N.Y. Acad. Sci. Clinical consulting. Publ: Study of the use of psychological principles in pastoral counseling. Address: Dept. of Psychology, Columbia Union College, Takoma Park, Md. 20012.

CANNON, DR. WILLIAM MAURY, b. Selma, Ala, May 1, 23; m. 47; c. 2. EXPERIMENTAL PSYCHOLOGY, HUMAN ENGINEERING. B.A, Birmingham-South. Col, 45; M.A, Duke, 48, Fulbright scholar, 54-55, Ph.D, 59. Staff psychologist, State Div. Voc. Rehab, N.C, 48-54, dir. psychol. serv. & res, 55-59; human factors scientist, Thompson Ramo Wooldridge, Inc, Colo, 59-60; Syst. Develop. Corp, 60-67; LECTR. PSYCHOL, CALIFORNIA, LOS ANGELES, 67- Consult, Syst. Develop. Corp, 67-; private practice, 68- Psychol. Asn; Rehab. Asn. Psychological evaluation in rehabilitation; invention and design of automated testing equipment; satellite design, data reduction, computer storage and retrieval; arms control and weather data systems; identification of the system scientist; development of computer programmer scale for the strong vocational interest record. Publ: P.I. performance in an interpretation task utilizing standard man-machine language; Effect of automated machine administration of psychological tests. Address: 580 E. Channel Rd, Santa Monica, Calif. 90402.

CANON, DR. LANCE K(IRKPATRICK), b. Oil City, Pa, Oct. 18, 39. SOCIAL PSYCHOLOGY. B.A, Yale, 61; M.A, Stanford, 63, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, WASHINGTON (SEATTLE), 65- Consult, Seattle Vet. Admin. Hosp, 67-; Seattle Police Force Community Rels. Unit, 67-; Seattle Human Rights Cmn, 68- AAAS; Psychol. Asn. Techniques of attitude change and interpersonal influence; theoretical models of the adaptation of humans to rearranged sensory inputs. Publ: Self-confidence and selective exposure to information, In: Conflict, decision and dissonance, Stanford, 64; co-auth, Information about spatial location based on knowledge about efference, Psychol. Rev, 72: 373-384; auth, Motivational state, stimulus selection and distractibility, Child Develop, 38: 589-596. Address: Dept. of Psychology, University of Washington, Seattle, Wash. 98105.

CANOYER, DEAN HELEN G, Mkt, Econ, see 10th ed, Soc. & Behav. Vols.

CANTER, DR. AARON H(ERMAN), b. New York, N.Y, July 6, 19; m. 44; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 40; M.A, Columbia, 41, Ph.D.(psychol), 49. Asst, teachers col, Columbia, 46-48; clin. psychologist, ment. hyg. clin, Vet. Admin, 47-49, chief clin. psychologist, regional off, Phoenix, 49-53, Vet. Admin. Hosp, 53-67; CHIEF CLIN. PSYCHOLOGIST & DIR. PSYCHOL. SERV, GOOD SAMARITAN HOSP, 67- Spec. lectr, Ariz. State Col, 51-54; private practice. Consult, Good Shepard Sch. Girls, 54-59. Chmn, Training Cmt. Clin. Psychol, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 52. U.S.A.A.F, 43-46. Fel. Psychol. Asn; fel. Soc. Proj. Tech; Acad. Psychother. Psychodiagnostics; individual and group psychotherapy. Publ: Direct and indirect measures of psychological deficit in multiple sclerosis, J. Gen. Psychol; Analysis and follow-up of patients with psychiatric disorders, Am. J. Psychother; Observations on group psychotherapy with hospitalized patients, Am. J. Psychiat. Address: 4035 E. McDonald Dr, Phoenix, Ariz. 85018.

CANTER, DR. ARTHUR, b. Boston, Mass, July 8, 21; m. 46; c. 2. PSYCHOLOGY. B.A, Iowa, 46, M.A, 48, Ph.D.(psychol), 50. Instr. psychol. & chief psychologist, inst. psychol. servs, Ill. Inst. Tech, 50-52; asst. prof. clin. psycyol, Vanderbilt, 52-55; MED. PSYCHOL, sch. med, Hopkins, 56-60; assoc. prof, COL. MED, IOWA, 60-65, PROF, 65-; CHIEF PSYCHOLOGIST, IOWA PSYCHOPATHIC HOSP, 60- Consult, Iowa Ment. Health Authority, 63; Vet. Admin. Hosp, Iowa City, 65. U.S.A.A.F, 42-45. AAAS: Psychosom. Soc; Orthopsychiat. Asn; fel. Psychol. Asn. Psychosomatic disease; minimal brain damage; video tape recording methods for behavioral research. Publ: Co-auth, Asian influenza: infection, disease and psychological factors, AMA Arch. Internal Med, 66 & Frequency of physical illness as function of psychological vulnerability, Psychosom. Med, 66; Background interference procedure to increase sensitivity of Bender Gestalt test, J. Consult. Psychol, 66. Address: Dept. of Psychiatry, State University of Iowa, Iowa City, Iowa 52240.

CANTER, DR. FRANCIS MARION, Psychol, see 10th ed, Soc. & Behav. Vols.

CANTER, DR. GERALD J(EROME), b. Jersey City, N.J, Feb. 5, 33; m. 56; c. 2. SPEECH PATHOLOGY. B.A, Montclair State Col, 55; M.A, Bowling Green State, 56; Ph.D.(speech path), Northwestern, 61. Asst. prof. speech, Cornell, 61-63; ASSOC. PROF. SPEECH PATH, NORTHWESTERN, 63- U.S.A, 57-58. Speech & Hearing Asn; Acad. Cerebral Palsy; Acad. Aphasia. Neuropathologies of speech and language, especially diseases of childhood; Parkinson's disease; aphasia and related language disturbances. Publ: Speech characteristics of patients with Parkinson's disease. I Intensity, pitch, and duration, J. Speech & Hearing Disorders, 63; co-auth, The speech handicapped, Rev. Ed. Res, 66; auth, Neuromotor pathologies of speech, Am. J. Phys. Med, 67. Address: Speech Clinic, Northwestern University, 1831 Hinman Ave, Evanston, Ill. 60201.

CANTER, DR. RALPH R(AYMOND), b. Indianapolis, Ind, Apr. 9, 21; m. 43; c. 2. PSYCHOLOGY. A.B, DePauw, 43; M.A, Ohio State, 47, fel, 48-49, Ph.D.(psychol), 49. Instr. & asst. prof. psychol, California, 49-55; psychologist, hqs, U.S. Dept. Air Force, 51-52; assoc. soc. scientist, Rand Corp, 55-57; asst. to pres, dir. personnel & dir, Wash. Off, Syst. Develop. Corp, 57-67; MANPOWER RES. COORDINATOR, OFF. SECY. DEFENSE, 68- U.S.N.R, 43-46, Lt. Psychol. Asn. Industrial psychology; systems training and research. Publ: Co-auth, Comparison of several psychological scales of weight, Am. J. Psychol; Job design, J. Indust. Eng; Use of extended control-group designs in human relations studies, Psychol. Bull. Address: 6324 Kellogg Dr, McLean, Va. 22101.

CANTERBERY, DR. ESTES RAY, b. Corning, Ark, May 26, 35; m. 60; c. 2. ECONOMICS. B.A, Southern Illinois, 58, M.A, 60; Ph.D.(econ), Washington (St. Louis), 66. Mkt. analyst, Gardner Advertising Co, 59-61; off. mgr. & statistician, St. Louis Fed. Reserve Bank, 61-62; ASST. PROF. ECON, Arizona State, 64-65; MARYLAND, 65- Econ. consult, Agency Int. Develop, Turkish Mission, summer 67. U.S.A, 54-56. International finance, especially theory of foreign exchange; economic policies of the Presidents, especially the administration of John F. Kennedy; statistical import demand-supply function, including mathematical models of demand. Publ: Foreign exchange, capital flows and monetary policy, studies in international finance, Princeton, 65; Economics on a new frontier, Wadsworth, 68; Dynamic theory of foreign exchange, Nat. Banking Rev, 6/67. Address: Dept. of Economics, University of Maryland, College Park, Md. 20742.

CANTONI, DR. LOUIS J(OSEPH), b. Detroit, Mich. May 22, 19; m. 48; c. 2. PSYCHOLOGY. A.B, California, 46; M.S.W, Michigan, 49, Ph.D.(counseling & guid), 53. Personnel mgr, Johns-Manville Corp, 44-46; caseworker, Detroit Dept. Pub. Welfare, 46-49; counsr, Mich. Div. Voc. Rehab, 49-50; conf. leader, Gen. Motors Inst, 51-53, teacher psychol. & counsr, 53-56, coordinator, family & community rels. prog, 55-56; ASSOC. PROF. ED. & DIR. REHAB. COUNSELING PROG, WAYNE STATE, 56- U.S.A, 42-44, 2nd Lt. Fel. AAAS; Psychol. Asn; Philos. Asn; Personnel & Guid. Asn; Rehab. Asn; Rehab. Counseling Asn.(chmn, 65-66). Supervisory practices in rehabilitation; personalistic philosophy and rehabilitation; poetry as exploration of the self-concept; I and thou in philosophic poetry; counseling principles and techniques; rehabilitation of the severely disabled. Publ: Co-auth, Counseling your friends, William-Frederick, 61 & Lay and professional counseling, Rehab. Lit, 6/65; auth, The poetic mood, Insight: Quart. Rev. Relig. & Ment. Health, spring 67. Address: 2591 Woodstock Dr, Detroit, Mich. 48203.

CANTOR, PROF. GORDON N(EIL), b. Syracuse, N.Y, May 5, 27; m. 50; c. 2. PSYCHOLOGY. A.B, Syracuse, 50, M.A, 51; Ph.D.(child psychol), Iowa, 54. Asst. prof. psychol, Peabody Col, 54-58, assoc. prof, 58-60; CHILD PSYCHOL, INST. CHILD BEHAVIOR & DEVELOP, IOWA, 60-63, PROF, 63- & ASST. DIR, 64- U.S.N, 45-46. Psychol. Asn; Soc. Res. Child Develop. Child psychology; child motivation. Publ: Responses of infants and children to complex and novel stimulation, In: Advances in child development & behavior, Academic, 63; co-auth, Discriminative reaction time performance in preschool children as related to stimulus familiarization, J. Exp. Child Psychol, 65; Functions relating children's observing behavior to amount and recency of stimulus familiarization, J. Exp. Psychol, 66. Address: Institute of Child Behavior & Development, University of Iowa, Iowa City, Iowa 52240.

CANTOR, DR. JOAN H(ARRIS), b. Reading, Pa, May 8, 31; m. 50; c. 2. PSYCHOLOGY. B.A, Syracuse, 51; M.A, Iowa, 53, Ph.D.(exp. psychol), 54. Res. assoc. & asst. prof. exp. psychol, Peabody Col, 54-60; CHILD PSYCHOL, INST. CHILD BEHAVIOR & DEVELOP, IOWA, 61-67, ASSOC. PROF, 67- Psychol. Asn; Psychonomic Soc; Soc. Res. Child Develop. Learning and motivation. Publ: Amount of pretraining as a factor in stimulus predifferentiation and performance set, J. Exp. Psychol, 55; Transfer of stimulus pretraining to motor paired-associate and discrimination learning tasks, In: Advances in child development and behavior, Vol. 2, Academic, 65; co-auth, Functions relating children's observing behavior to amount and recency of stimulus familiarization, J. Exp. Psychol, 66. Address: Institute of Child Behavior and Development, University of Iowa, Iowa City, Iowa 52240.

CANTOR, DR. JOEL M(ALCOLM), b. Brooklyn, N.Y, June 18, 24; m. 44; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 46; M.A, Minnesota, 48, Ph.D.(psychol),

52. Chief clin. psychologist, Vet. Admin. Center, Sioux Falls, S.Dak, 52-54; consult. psychologist, Los Angeles County Gen. Hosp, Calif, 54-57; staff clin. psychologist, Vet. Admin. Neuropsychiat. Hosp, Los Angeles, 57-63, res. psychologist, Vet. Admin. Center, 63-68; CONSULT. PROG. DEVELOP, CENTER STUDIES SUICIDE PREV, NAT. INST. MENT. HEALTH, 68- Instr, Loma Linda, 55-60, asst. clin. prof, 60-64; lectr. psychol, Calif. State Col. Los Angeles, 66- & assoc. prof. summer 67. U.S.A, 43-46. AAAS; Psychol. Asn; Soc. Study Social Probs. Alcoholism; suicidology. Publ: Brief screening scale for psychopathological patients developed from MMPI score-patterning, J. Clin. Psychol, 55; All-or-none style of thinking as a source of test bias, Psychol. Reports, 64; Notes on a working hypothesis: the retardate problem drinker, Int. J. Addictions, 67. Address: National Institute of Mental Health, 5454 Wisconsin Ave, Chevy Chase, Md. 20203.

CANTORI, DR. LOUIS J, b. Haverhill, Mass, June 29, 34; m. 53; c. 3. POLITICAL SCIENCE. B.A, Massachusetts, 59; M.A, Chicago, 62, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, CALIFORNIA, LOS ANGELES, 66- Ford Found. res. grant, 67-68. U.S.M.C, 53-55, Sgt. Polit. Sci. Asn; fel. Mid. East Studies Asn. Comparative politics of North Africa and the Middle East. Address: Dept. of Political Science, University of California, Los Angeles, Calif. 90024.

CANTRELL, DR. LANG L(EWIS), Econ, see 10th ed, Soc. & Behav. Vols.

CANTRELL, DR. PAUL G, b. Rayborn, Mo, Apr. 26, 27; m. 47; c. 2. PSYCHOLOGY. A.B, Oklahoma Baptist, 50; B.D, South. Baptist Theol. Sem, 53; M.A, Kentucky, 61, Ed.D, 65. ASSOC. PROF. PSYCHOL, WILLIAM JEWELL COL, 63- U.S.A, 45-46, Sgt. Psychol. Asn; Personnel & Guid. Asn. Address: Dept. of Psychology, William Jewell College, Liberty, Mo. 64068.

CANTRELL, PROF. T(ILMAN) M(EADE), Sociol, see 10th ed, Soc. & Behav. Vols.

CANTRIL, DR. ALBERT H, JR, b. New York, N.Y, June 17, 40. POLITICAL SCIENCE. A.B, Dartmouth Col, 62; Ph.D.(polit. sci), Mass. Inst. Tech, 66. Res. asst. to Bill D. Moyers, White House, 65-67; consult. to dir, U.S. Bur. Budget, 67; SPEC. ASST. TO ASST. SECY. STATE, U.S. DEPT. STATE, 67- Political development of Asia; foreign policy decision-making; international communications; political psychology. Publ: Indian perception of Sino-Indian border dispute, Pub. Opinion Quart; Experiment with democracy in village India, Tech. Rev, 6/68. Address: 2512 East Place N.W, Washington, D.C. 20007.

CANTRIL, DR. (ALBERT) HADLEY, b. Hyrum, Utah, June 16, 06; m; c. 2. PSYCHOLOGY. B.S, Dartmouth Col, 28, hon. D.Sc; Munich, 29; Berlin, 29; Ph.D, Harvard, 31; LL.D, Washington & Lee. Instr. sociol, Dartmouth Col, 31-32; psychol, Harvard, 32-35; asst. prof. ed, Columbia, 35-36; PSYCHOL, PRINCETON, 36-37, assoc. prof, 37-45, prof, 45-55, RES. ASSOC, 55- Dir, tensions proj, UNESCO, Paris, 48; pres. & chmn. bd, Inst. Int. Soc. Res. Consult, U.S. Dept. State, Dept. Army & Dept. Navy. Res. award, Am. Asn. Pub. Opinion Res, 66. Psychol. Asn. Social psychology; psychology of personality; public opinion. Publ: The why of man's experience; Politics of despair; The pattern of human concerns, Rutgers, 65. Address: Institute for International Social Research, 240 Nassau St, Princeton, N.J. 08540.

CAPALDI, PROF. E(GIDIO) J(OHN), b. Philadelphia, Pa, Sept. 30, 28; m. 58. PSYCHOLOGY. B.A, La Salle Col, 52; Ph.D, Texas, 56. Instr. PSYCHOL, TEXAS, AUSTIN, 56-58, from asst. prof. to PROF, 58- U.S.A, 46-47, Sgt. Psychol. Asn; Psychonomic Soc. Learning theory; comparative psychology; cognition. Publ: Effect of different amounts of training on resistance to extinction of different patterns of partially reinforced responses & co-auth, Response reversal following different amounts of training, J. Comp. Physiol. Psychol; Acquisition and transfer in partial reinforcement, J. Exp. Psychol. Address: Dept. of Psychology, University of Texas, Austin, Tex. 78712.

CAPE, PROF. WILLIAM H(ENRY), b. Murdock, Kans, Apr. 6, 20; m. 45; c. 2. POLITICAL SCIENCE. A.B, Ft. Hays Kans. State Col, 47, M.S, 48; Ph.D. (polit. sci), Kansas, 52. Instr, Wyoming, 47-48; Kansas, 48-51; asst. prof. govt, South Dakota, 52-54, assoc. prof, 54-55, prof, 55-60, asst. dir, govt. res. bur, 52-60; assoc. prof. POLIT. SCI, KANSAS, 61-64, PROF, 64-, ASSOC. DIR. GOVT. RES. CENTER, 61-, vis. prof, 57-58. U.S.A.A.F, 42-45. Polit. Sci. Asn; Soc. Pub. Admin. Public administration and law; federal, state and local government. Publ: Co-auth, Government of South Dakota, Midwest-Beach Co, Sioux Falls, S.Dak, 62; co-auth, An analysis of the Kansas legislative council and its research department, 63 & auth, The emerging patterns of county executives, 67, Univ. Kansas. Address: Dept. of Political Science, 523 Blake Hall, University of Kansas, Lawrence, Kans. 66044.

CAPEHART, DR. BERTIS E(VERETT), b. Ill, Feb. 9, 13; m. 40; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, DePauw, 35; A.M, Illinois, 40, M.Ed, 50; Ed.D.(ed. psychol. & sch. admin), Tennessee, 53. Teacher, high schs, Ill, 38-43; instr. physics, Butler, 43-44; teacher & counsr, pub. schs, Ohio, 44-45; guid. counsr, Oak Ridge Schs, Tenn, 45-47, dir. guid, 47-52, asst. supt, 52-54, supt, 54-56; assoc. dir. ed. dept, Hill & Knowlton, Inc, New York, 56-63; DIR. ED. DEPT, AM. IRON & STEEL INST, 63- Lectr, N.Y. Univ, 58; Hunter Col, 61; summers, vis. prof, Fla. State & Tennessee, 49, Miami (Ohio), 54-55. Pres, Coun. Nat. Orgn. Adult Ed, 63-64; Nat. Community Resource Workshop Asn, 65-66. Fel. AAAS; Psychol. Asn; Personnel & Guid. Asn; Econ. Asn; Nat. Sci. Teachers Asn; Ed. Res. Asn; Nat. Soc. Study Ed. Achievement and personality tests; evaluation of curriculum and instruction; public relations. Publ: Objective evaluation of a core program & Evaluating the core curriculum: further look, Sch. Rev; co-auth, Putting the cream on higher education, Col. & Univ. J, summer 63. Address: 120 Squire Hill Rd, Upper Montclair, N.J. 07043.

CAPEHART, DR. JACK EDWARD, b. Norman, Okla, Dec. 28, 29. PSYCHOLOGY. B.A, Oklahoma, 54, M.S, 58; Ph.D.(psychol), Texas, 62. Res. psychologist, med. sch, Oklahoma, 62; ASST. PROF. PSYCHOL, ARIZONA, 62- U.S.A, 54-56, 1st Lt. Psychopharmacology in human and animals; general experimental learning and perceptual processes. Address: Dept. of Psychology, University of Arizona, Tucson, Ariz. 85721.

CAPEL, PROF. GEORGE LAFAYETTE, b. Garysburg, N.C, Nov. 24, 23; m. 49; c. 2. AGRICULTURAL ECONOMICS. B.S, N.C. State Col, 48, M.S, 49; Ph.D, Florida, 56. Agr. economist, farm credit admin, U.S. Dept. Agr, 49-52, agr. mkt. serv, 52-61; PROF. AGR. ECON, N.C. STATE, 61- Cert. of merit, agr. mkt. serv, U.S. Dept. Agr, 59. U.S.N, 43-46, Res, 46-, Lt. Agr. Econ. Asn. Administration of a program of extension education for farmers and business leaders interested in the marketing of farm products in North Carolina. Publ: Frozen food locker plants in North Carolina, N.C. Agr. Exp. Sta. Bull; Comparative costs of alternative methods for performing certain handling operations in Florida citrus packinghouses, Fla. Agr. Exp. Sta. Bull. Address: 4122 Rockingham Dr, Raleigh, N.C. 27609.

CAPEL, DR. RICHARD E(MBLEY), b. London, Eng, Dec. 25, 36. ECONOMICS. B.Sc, Reading, 60; M.S, Illinois, Urbana, 62; Ph.D.(econ), N.C. State, 66. ASST. PROF. AGR. ECON, MANITOBA, 66- Fulbright travel award, 60-62; consult, Choice, 67. Econ. Asn; Am. Agr. Econ. Asn; Can. Agr. Econ. Soc. International trade; resource economics. Publ: Co-auth, Implications of an unrestricted pooling of North American agricultural resources, Iowa State Univ, in press; auth, Methods of forecasting demands for water in agriculture, Sci. Secretariat, Govt. Can, in press; An analysis of the export demand for United States flue-cured tobacco, Univ. Microfilms, 66. Address: Dept. of Agricultural Economics, University of Manitoba, Winnipeg, Man, Can.

CAPELLE, PROF. RUSSELL BECKETT, b. Waltham, Mass, Jan. 8, 17; m. 42; c. 3. POLITICAL SCIENCE. A.B, Dartmouth Col, 36; A.M, Fletcher Sch. Law, 37; Dartmouth Col. Charles Miller alumni fel, Boston, 54, Ph.D.(govt), 58. Asst. to head legal dept, mortgage loan div, Phoenix Mutual Life Ins. Co, 40-41, 45-46; instr. govt, econ. & sociol, Bradford Jr. Col, 46-54; asst. prof. GOVT, NORWICH, 54-57, assoc. prof, 57-67, PROF, 67-, res. & pub. grants, 63 & 65-67. A.U.S, 42-46, 1st Lt. Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Christian democracy, especially in Latin America; Popular Republican Movement of France. Publ: The M.R.P. and French foreign policy, Praeger, 63; co-ed, Dictionary of political science, Philos. Library, 64. Address: Dept. of Government, Norwich University, Northfield, Vt. 05663.

CAPLAN, PROF. EDWIN H(ARVEY), b. Boston, Mass, Aug. 24, 26; m. 47; c. 4. ACCOUNTING, ORGANIZATION THEORY. B.B.A, Michigan, 50, M.B.A, 52; Ph.D.(bus. admin), California, 65. Partner, J.J. Gotlieb & Co, 53-56; assoc. prof. acct, Humboldt State Col, 56-61; instr, sch. bus. admin. Univ. California, 61-64; assoc. prof, col. bus. admin, Univ. Oregon, 64-67; PROF. ACCT & HEAD DIV. MANAGERIAL CONTROL, COL. BUS. ADMIN, UNIV. NEW MEXICO, 67- U.S.A, 44-46, 1st Lt. Am. Acct. Asn; Inst. Cert. Pub. Acct; Nat. Asn. Acct. Management control systems; behavioral implications of accounting. Publ: Behavioral assumptions of management accounting, 7/66 & Behavioral assumptions of management accounting—report of a field study, 4/68, Acct. Rev. Address: Division of Managerial Control, School of Business Administration, University of New Mexico, Albuquerque, N.Mex. 87106.

CAPLAN, DR. ELEANOR K(IRSCHNER), b. Sumter, S.C, Aug. 29, 19; m. 39; c. 4. SOCIOLOGY. B.S, Western Reserve, 55, M.A, 58, Ph.D, 62. Res. assoc. sociol, Western Reserve, 57-62, asst. prof, 62-67, lectr, 58-67; SR. RES. SOCIOLOGIST, BATTELLE MEM. INST, 67- Res. dir. intergroup rels, Cleveland Community Rels. Bd, 59-60; prin. investr, Multi-Agency Integration & Change, sponsored by Community Action for Youth, 64-65 & Welfare Admin, U.S. Dept. Health, Ed. & Welfare, 65-67. Consult, Tuberc. Rehab. Res. Proj, 61- Ed, Ohio Valley Sociol. Asn, 63-65. Sociol. Asn; Statist. Asn; Soc. Study Social Probs. Methodology; intergroup relations; medical and urban sociology; demography; sociology of occupations and the family; application of systems analysis to urban social problems; interorganizational coordination. Publ: Collab, Hough, Cleveland, Ohio; auth, The walking patient, Western Reserve Univ, 67; co-auth, Factors affecting racial change in two middle income housing areas, Phylon Quart. Address: Battelle Memorial Institute, Cleveland Office, 1410 E. Ohio Bldg, Cleveland, Ohio 44114.

CAPLAN, DR. STANLEY WILLIAM, b. Des Moines, Iowa, Mar. 1, 24; m. 47; c. 1. PSYCHOLOGY. B.A, Arizona, 47; M.A, Colorado, 48; Ed.D, California, 56. Asst. psychol, Colorado, 48-49; dir. testing, counsr. & teacher, pub. schs, Calif, 49-53; asst. head counsr, 53-56; asst. dir. guid, Albuquerque Pub. Schs, 56-57, assoc. coordinator, 57-59, coordinator & asst. supt. pupil personnel, 59-63; assoc. prof. ed. & asst. dir. col, New Mexico, 63-65; field coordinator ed, Litton Industs, 65-66; ASSOC. DIR. ED, SOUTHWEST. COOP. ED. LAB, 66- Dir. playgrounds, Boulder, Colo, 48; Berkeley, Calif, 50; recreation center, Tucson, Ariz, 48; group worker, Jewish Center, San Francisco, Calif, 53; summer vis. prof, New Mexico, 57-; Iowa, 58. Mem, Int. Coun. Psychologists, 65-; N.Mex. State Bd. Psychol. Exam, 67- Dipl. counseling psychol, Am. Bd. Psychol. Exam, 65. Sig.C, U.S.A, 42-43. Psychol. Asn; Personnel & Guid. Asn; Coun. Except. Children; Acad. Polit. & Soc. Sci. Child development; identification and treatment of early emotional disturbances; group counseling techniques; projective techniques; direction of research and development. Publ: Changes in self-concept of junior high boys through multiple counseling, Counseling Psychol; co-auth, Mandate for change, Sch. Counsr & Is group dynamics a dirty word?, Phi Delta Kappan. Address: 3917 Mesa Verde N.E, Albuquerque, N.Mex. 87110.

CAPLOVITZ, DR. DAVID, b. New Haven, Conn, Feb. 29, 28. SOCIOLOGY. A.B, Connecticut, 49; Ph.D.(sociol), Columbia, 61. Res. asst, Bur. Appl. Soc. Res, Columbia, 55-61, asst. prof. sociol, Univ, 61-62; Chicago, 62-64; RES. ASSOC, BUR. APPL. SOC. RES, COLUMBIA, 64-, assoc. prof. sociol, Univ, 64-67. Sr. study dir, Nat. Opinion Res. Center, 62-64. Res. consult, Anti-Defamation League, 60-61; Off. Econ. Opportunity, 65- Sociol. Asn; Poverty; social stratification; consumer credit. Publ: The poor pay more, Macmillan, 63; co-auth, Reports on happiness, Aldine, 65. Address: Bureau of Applied Social Research, Columbia University, New York, N.Y. 10027.

CAPLOW, PROF. THEODORE, b. New York, N.Y, May 1, 20; m. 42; c. 4. SOCIOLOGY. A.B, Chicago, 39; M.A, Minnesota, 41, Ph.D.(sociol), 46. From instr. to assoc. prof. SOCIOL, Minnesota, 40-54, PROF, 54-61; COLUMBIA, 61- Fulbright lectr, Bordeaux, 50; Aix-Marseille, 51; Utrecht, 54-

55; vis. prof, Stanford, 57; Sorbonne, 68-69. Sociol. Asn; Sociol. Res. Asn. Organizational studies; mobility; market patterns; comparative urban ecology. Publ: Sociology of work; co-auth, Academic marketplace; auth, Principles of organization, Harcourt, 64. Address: Dept. of Sociology, Columbia University, New York, N.Y. 10027.

CAPOBIANCO, DR. MICHAEL F, Math, Statist, see Suppl. II to 11th ed, Phys. & Biol. Vols.

CAPOBIANCO, DR. R(UDOLPH) J(OSEPH), b. Catskill, N.Y, Nov. 9, 23; m. 48. EDUCATIONAL PSYCHOLOGY. B.A, Denver, 49, M.A, 50; Ed.D.(spec. ed), Illinois, 54. Asst. prof. psychol, Purdue, 54; res. asst. prof. & dir. res. spec. ed. & rehab, Syracuse, 54-58; assoc. prof. ed. psychol, Minnesota, 58-62; res. scientist, Johnstone Training & Res. Center, N.J, 62-66; DIR. BEHAV. SCI, SUNLAND TRAINING CENTER, MARIANNA, FLA, 66-; RES. ASSOC, FLA. STATE, 66- Vis. assoc. prof, George Washington, 66. Res. consult, Fairfax County Sch. Bd, Fairfax,Va, 63-; mem, Coun. Except. Children. U.S.A.A.F, 43-45. Psychol. Asn; fel. Asn. Ment. Deficiency; Ed. Res. Asn. Educational and psychological research with exceptional children and adults; university teaching in psychology and special education. Publ: Diagnosis of children with learning disabilities, Except. Child, 64; Ocular-manual laterality and reading achievement in children with special learning disabilities, Am. Ed. Res. J, 67; The school psychologist collaborates with other school staff, In: School psychological services, Prentice-Hall, 67. Address: Sunland Training Center, Marianna, Fla. 32446.

CAPORALE, DR. ROCCO, b. Catanzaro, Italy, Aug. 21, 27; U.S. citizen. SOCIOLOGY, RELIGION. B.A, Aloisianum Col, Milan, 50; S.T.L, De Nobili Col, Poona, 57; M.S.W, Bombay, 59; pres. fel, Columbia, 63-64, hon. pres. fel, 64-65, Ph.D.(sociol), 65. Instr. soc. sci, Aloisianum Col, Ceylon, 52-53; psychol, Bandra Theol. Col, Bombay, 57-59; res. dir, Indian Soc. Inst, Poona, 59-60; asst. prof. sociol, Manhattanville Col, 63-66; RES. SOCIOLOGIST, CALIFORNIA, BERKELEY, 66- Consult, Latin Am. Br, Fed. Int. Cath. Res. Inst. Sociol-Relig, 65-; Inst. Mex. Soc. Studies, Mexico, 66-Socoil. Asn: Acad. Polit. & Soc. Sci. Processes of modernization and development of religious systems, comparatively and crossculturally. Publ: Vatican II, last of the councils, Helicon Press, 64; Les hommes du concile, Ed. du Cerf, Paris, 65; The dynamics of hierocracy, Mouton & Co, The Hague, (in press). Address: Institute of International Studies, University of California, 2538 Channing Way, Berkeley, Calif. 94720.

CAPPANNARI, DR. STEPHEN C(LEMENT), b. Plymouth, Mass, July 16, 17; m. 44; c. 2. ANTHROPOLOGY. B.A, Michigan, 40; fel, Harvard, 41-42; Ph.D.(anthrop), California, 50. Asst. anthrop, California, 46-49; asst. prof, Wayne State, 50-60; ASSOC. PROF. ANTHROP. & DIR. DIV. HUMAN BEHAV, DEPT. PSYCHIAT, SCH. MED, VANDERBILT, 60- Wenner Gren Found. grant, 49, 55; Fulbright scholar, Italy, 54-55. Consult, anthrop, Cent. State Hosp, 62-; consult. for study sponsored by U.S. Children's Bur, Fisk, 64-U.S.N.R, 42-46, Lt. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; fel. Royal Anthrop. Inst. Gt. Britain & Ireland; Italian Asn. Soc. Sci. American Indian ethnography; peasant communities in Italy; ethnology. Publ: Il matrimonio nel Malabar presso i Nayar ed i Nambudiri, Rev. Antropol, 42: 427-428; The concept of property among Shoshoneans, In: Essays in honor of Leslie A. White, Crowell, 60; co-auth, The emergence of language, Am. Anthropologist, 66: 318-323. Address: Dept. of Psychiatry, Vanderbilt University Medical Center, Nashville, Tenn. 37203.

CAPRETTA, DR. PATRICK (JOHN), b. Cleveland, Ohio, Nov. 2, 29; m. 58; c. 1. COMPARATIVE PSYCHOLOGY. B.A, Kent State, 52; M.A, Colorado, 54, Ph.D, 58. Res. assoc. motivational res, HumRRO, 57-59; instr. PSYCHOL, Washington State, 59-60, asst. prof, 60-61; res. asst. prof. MIAMI (OHIO), 61-64, ASSOC. PROF, 64- Nat. Inst. Ment. Health res. fel, Aberdeen, 66-67. Psychol. Asn; Animal Behavior Soc. Reinforcement as a psycho-physiological concept; development and modification of food habits; learning process. Publ: History of psychology, Dell, 67; co-auth, Effects of drive level and experience on the reward value of a saccharine solution, J. Comp. & Physiol. Psychol; auth, Effects of first food ingestion on the later food preferences of chicks, Proc. 75th Annual Convention Am. Psychol. Asn, 67. Address: Dept. of Psychology, Miami University, Oxford, Ohio 45056.

CAPRON, PROF. WILLIAM M(OSHER), Econ, see 10th ed, Soc. & Behav. Vols.

CAPSTICK, PROF. DANIEL F, b. Pawnee, Okla, Feb. 21, 28; m. 50; c. 4. AGRICULTURAL ECONOMICS. B.S, Okla. State, 51, M.S, 53; KENTUCKY, 53-54; Wright fel, Illinois, 54-55. Asst. AGR. ECON, Okla State, 52-53, 55-56, instr, 56-57; asst, Kentucky, 53-54; ASST. PROF, ARKANSAS, 57-U.S.A, 46-48. Agr. Econ. Asn. Farm management and production economics. Publ: Co-auth, Grain sorghum fertilization, 62, & Economic analysis of irrigation and fertilization of cotton, 63, Ark. Agr. Exp. Sta. Spec. Report, 63; auth, Cost of harvesting hay in western and northwestern Arkansas, Ark. Agr. Exp. Sta. Bull, 62. Address: Dept. of Agricultural Economics, University of Arkansas, Fayetteville, Ark. 72701.

CAPUTO, DR. DANIEL V(INCENT), b. Brooklyn, N.Y, Apr. 4, 33. PSYCHOLOGY. A.B, Brooklyn Col, 54; U.S. Pub. Health Serv. fel, Illinois, 56-57, Ph.D.(clin. psychol), 61. Instr. med. psychol, sch. med, Washington (St. Louis), 59-64; ASST PROF. PSYCHOL, QUEENS COL.(N.Y), 67-, SUPVR. PSYCHOL, SUMMER SESSION, 67- Nat. Insts. Health res. grant, 66-67. Psychol. consult, Mo. Baptist Convention, 60-64; res. consult, Staten Island Ment. Health Asn, 67- Psychol. Asn. Early experience; etiology of psychosis; parental attributes relating to psychosis; social and developmental psychology. Publ: The parents of the schizophrenic, Family process, 63; Early experience and LSD-25, J. Genetic Psychol, 64; co-auth, Sociometric factors related to subsequent success in a nursing program, Ed. & Psychol. Measurement, 67. Address: Dept. of Psychology, Queens College, Kissena Blvd, Flushing, N.Y. 11367.

CARACENA, DR. PHILIP FERNANDO, b. New York, N.Y, Feb. 27, 35; m. 59; c. 3. CLINICAL PSYCHOLOGY. B.A, Lafayette Col, 57; M.A, Temple, 59; Ph.D.(clin. psychol), Mich. State, 63. ASST. PROF. PSYCHOL, Southern Illinois, 63-65; center psychol. serv, Ohio, 65-66; DePAUL, 66- Consult, Jewish Ed. & Voc. Serv, 65-66. Psychol. Asn; Personnel & Guid. Asn. Process of psychotherapy; counseling. Address: Dept. of Psychology, DePaul University, 25 E. Jackson Blvd, Chicago, Ill. 60604.

CARADINE, PROF. EMMETT EVERETT, JR, b. West Point, Miss, Sept. 3, 36; m. 64. ECONOMICS. Univ. fel. & B.B.A, Mississippi, 57; M.A, La. State, 59, Sperry & Hutchinson fel, 59-61. Asst. ECON, La. State, 59; ASSOC. PROF, SOUTHWESTERN LOUISIANA, 61- Participant seminar contemporary econ, Virginia, summer 63. Economic history; economic theory; public finance; labor. Address: Dept. of Economics, University of Southwestern Louisiana, Lafayette, La. 70501.

CARALEY, DR. DEMETRIOS, b. New York, N.Y, June 22, 32; m. 57; c. 3. POLITICAL SCIENCE. B.A, Columbia, 54, Samuel S. Fels Fund & univ. fels. & Ph.D.(polit. sci), 62. Instr. GOVT, Columbia, 59-60; BARNARD COL, COLUMBIA, 61-62, asst. prof, 62-65, assoc. prof. & chmn. dept, 65-68, PROF, 68- Summer grants, War & Peace Inst, Columbia, 63 & Coun. Res. Soc. Sci, 64. U.S.N, 54-56, Lt.(jg). American urban, congressional and party politics. Publ: The politics of military unification, Columbia, 66; New York City's deputy mayor—city administrator, Citizens' Budget Cmn, 66; Party politics and national elections, Little, 66. Address: Dept. of Government, Barnard College, Columbia University, New York, N.Y. 10027.

CARBERRY, PROF. FRANCIS X(AVIER), b. Buffalo, N.Y, Dec. 3, 02. BUSINESS ADMINISTRATION, ECONOMICS. B.S, Canisius Col, 25; M.B.A, Harvard, 28. Credit analyst, Universal Credit Co, 28-32; asst. prof, Buffalo Col, 32-36; Ala. Polytech, 36-43; economist, Nat. War Labor Bd, 43-46; asst. prof, Ga. Inst. Tech, 46-49; from assoc. prof. to PROF. BUS. ADMIN, SPRING HILL COL, 49- Mgt. Asn. Address: 4828 Chaudron Dr, Mobile, Ala. 36618.

CARBERT, DR. LESLIE E(LLERTON), b. Edmonton, Alta, Sept. 8, 22; nat; m. 49; c. 2. ECONOMICS. B.A, British Columbia, 46; Garth fel. & M.A, Columbia, 47, Ph.D, 56. Instr. econ, British Columbia, 47; lectr, Hofstra Col, 48; California, 48-53; TAX ANALYST, PAC. GAS & ELEC. CO, 53-Res. analyst, cmt. state & local taxation, Calif. Senate, 50-53; res. dir, N.C. Tax Study Cmn, 55-56; state planning officer, State of Calif, 65-67. Consult, San Bernardino County, Calif, 53; tax consult, City of New York, 65-66. R.C.A.F, 43-45. Econ. Asn; Tax Asn. State and local taxation; application of fiscal policy to economic development; public planning. Publ: Co-auth, Financing government in New York City, N.Y. Univ, 66; auth, Impact of state and local taxes in North Carolina and the southeastern states; Report of committee on state equalization of local property tax assessments, Nat. Tax Asn. Proc. Address: Pacific Gas & Electric Co, 245 Market St, San Francisco, Calif. 94105.

CARD, PROF. B(RIGHAM) Y(OUNG), b. Cardston, Alta, Mar. 11, 14; m. 50; c. 5. SOCIOLOGY. B.Sc, Alberta, 42, B.Ed, 47; Can. Coun. fel. & Ph.D. (sociol, ed. sociol), Stanford, 59. Instr. physics, faculty arts & sci, ALBERTA, 45-46, spec. lectr. sociol. & soc. psychol, 52-57, from asst. to assoc. prof. SOCIOL. OF ED, FACULTY ED, 50-67, PROF, 67- Res. fel, California, 60-61; summer vis. prof, Bishop's (Can), 67, Manibota, 68. Can. Army, 42-45, 1st Lt. Fel. Am. Sociol. Asn; Can. Sociol. & Anthrop. Asn. Educational sociology; analysis of relationships between sociology and education; status perception study; socio-cultural aspects of Canadian educational problems. Publ: Canadian prairie provinces from 1870-1960: a sociological introduction; co-auth, The metis in Alberta society, Univ. Alberta, 63; auth, Trends and change in Canadian society, Macmillan of Can, 68. Address: Dept. of Educational Foundations, University of Alberta, Edmonton, Alta, Can.

CARD, DR. DANA G(EORGE), b. Lincoln, Nebr, Apr. 28, 98; m. 27. STATISTICS. B.S, Cornell, 19, M.S, 25, Ph.D.(prices, statist), 39. Mkt. specialist, agr. exten. serv, KENTUCKY, 20-22, asst. agr. mkt, EXP. STA, 22-28, asst. prof. AGR. ECON, 28-39, assoc. prof, 39-46, PROF, 47-, economist, 47-59. U.S.A, 18. Statist. Asn; Farm Econ. Asn. Marketing and prices of farm products; labor efficiency in marketing; statistical analysis. Publ: Some factors affecting the prices of white Burley tobacco & Growers' losses of Burley tobacco sold in high order, Ky. Agr. Exp. Sta. Bull; Agriculture and forestry, In: Kentucky: designs for her future. Address: Agricultural Experiment Station, University of Kentucky, Lexington, Ky. 40506.

CARDALL, DR. ALFRED JAMES, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 62.

CARDENAS, DR. LEONARD, JR, b. Del Rio, Tex, July 1, 30; m. 59; c. 3. POLITICAL SCIENCE. B.S, St. Louis, 51, M.A, 53; Orgn. Am. States grant, Texas, Austin, 61, Ph.D.(polit. sci), 64. Asst. attache, U.S. Embassy, Bolivia, 57-59; instr. govt, Texas, El Paso, 62-63, asst. prof, 63-66, ASSOC. PROF. polit. sci, 66-68; GOVT, LA. STATE, 68- Fulbright lectr, La Paz, 64-65; vis. prof, Cochabamba, 65-66. U.S.A.F, 53-55, Res, 55-, Capt. Polit. Sci. Asn; Latin Am. Studies Asn. Local government in Latin America; political development in Latin America. Publ: The municipality in northern Mexico, Texas West. Col, 63; Contemporary problems of Mexican local government, West. Polit. Quart, 65, On the future of Mexican autonomy, Rocky Mt. Soc. Sci. J, 67. Address: Dept. of Government, Louisiana State University, Baton Rouge, La. 70803.

CARDER, DR. CLARENCE A(LLISON), b. Johnson City, Tenn, Dec. 12, 13. PSYCHOLOGY. A.B, Tusculum Col, 38; Th.M, South. Baptist Theol. Sem, 43; Ed.D.(ed. admin. & psychol), Tennessee, 55. Field worker, Holston Asn. of Baptists, 43-44; teacher Eng. & Greek, Milligan Col, 45-46; psychol. & Bible, Baylor, 46-47; assoc. prof. psychol. & chmn. dept. ed. & psychol, E.Tenn. State Col, 47-57; dir. elem. ed, Brevard County Schs, Fla, 57-58; placement, Appalachian State Teachers Col, 58-60; prof. ed. & psychol. & chmn. dept, Carson-Newman Col, 60-66; chmn. dept. ed, Maryville Col. (Tenn), 66-67; DEAN STUDENTS, LINCOLN MEM. UNIV, 67- Minister music & relig. ed, First Baptist Church, Elizabethton, Tenn, 44-46. Educational psychology as related to the classroom teacher; adjustment problems of teacher education candidates. Publ: Study of teacher education in Southern Baptist College and universities. Address: Box 93, Harrogate, Tenn. 37752.

CARDIN, PROF. JEAN-RÉAL, Indust. Rels, Law, see 10th ed, Soc. & Behav. Vols.

CARDINAL, DR. CLIVE HELMUT, German & Scandinavian Lit, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

CARDON, DR. BARTELL WILSON, JR, b. Denver, Colo, Apr. 21, 32; m. 60; c. 3. CHILD & CLINICAL PSYCHOLOGY. B.A, Brigham Young, 60; Nat. Inst. Ment. Health fels, Minnesota, 63-65, M.A, 63, Ph.D.(sch. psychol), 65. Teacher, pub. schs, Utah, 60-61; ASST. PROF, SCH. PSYCHOL, PA. STATE, 65- Chief clin. psychologist, Blair County Ment. Health Center, Altoona, Pa, 66- Consult, Appalachian Lab. Proj, West Virginia Univ, 66; Pa. Dept. Pub. Inst, 66-; Easter Seal Soc, 67- U.S.N.R, 60-64. Psychol. Asn; Coun. Except. Children; Soc. Res. Child Develop. School psychology and leadership personnel in the area of emotional disturbance; handicapped child-parental relationships; bright and gifted dropouts; perception as related to learning disabilities. Publ: Co-auth, Employment status and characteristics of high school dropouts of high ability, Pa. State Univ, 66; auth, Pennsylvania's bright dropouts: a problem and a challenge, Pa. Sch. J, 2/68; Sex differences in academic achievement: a look at the literature, Elem. Sch. J, 68. Address: 119 EPC II, University Park, Pa. 16802.

CARDWELL, ROSSON L(AWRENCE) b. Racine, Wis, Dec. 4, 19; m. 45; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Chicago, 46, M.A, 49. Asst. to dir. div. biol. & med. res, Argonne Nat. Lab, 50-52; exec. dir, Cowles Cmn. Res. Econ, Chicago, 52-55, acting dir. res, 54-55; mgt. consult, Booz, Allen & Hamilton, 55-59; assoc. dir. & dir. res, Hosp. Planning Coun. Metrop. Chicago, 59-64; dir. off. human resources develop, U.S. Agency Int. Develop, Brazil, 64-68; INST. DIR, BANGKOK OFF, AM. INSTS. RES, 68- U.S.A.A.F, 43-45, 2nd Lt. Planning Asn. Long range planning for institutions; measurement of need and demand for hospital care; area-wide planning for hospital facilities; nation-wide planning for development of human resources in underdeveloped countries. Publ: Co-auth, The case for coordinated hospital planning, (three parts), Hospitals, 11/1, 11/16 & 12/1, 61. Address: Bangkok Office, American Institutes for Research, 135 N. Bellefield, Pittsburgh, Pa. 15213.

CAREY, DR. ALAN D(ONALD), b. Ashland, Nebr, Jan. 15, 20; m. 44; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Denver, 46, M.B.A, 47; Ph.D, Texas, 56. Assoc. prof. econ. & dir. bur. bus. & econ. res, Houston, 52-56; consult. economist, 56-65; DIR. RES. & ED, ASSOC. CREDIT BUR. AM, INC, 65- U.S.M.C, 42-45. Statist. Asn; Mkt. Asn; Asn. Bus. Econ. Finance; real estate; interests in finance and consumer credit; management education. Address: 7814 Bellaire Blvd, Houston, Tex. 77036.

CAREY, DR. ALICE T(ELFORD), Psychol, see 10th ed, Soc. & Behav. Vols.

CAREY, DR. GEORGE W(ARREN), b. New York, N.Y, Jan. 1, 27; m. 50; c. 4. URBAN GEOGRAPHY. A.B, Columbia, 43, A.M, 49, Ed.D.(geog), 64. Teacher, pub. schs, Vt, 51-52; N.J, 52-61; instr. geog, Puerto Rico, Mayagüez, 61-62; assoc. prof. URBAN GEOG, Teachers Col, Columbia, 64-68; PROF, RUTGERS, 68- Study grants, Teachers Col, Columbia, 66-67, Off. Water Resources Res. & Center of Urban Ed, 67-69. U.S.A.A.F, 45-46. Asn. Am. Geog; Am. Geog. Soc. Urban social and educational geography and quantitative modes of analysis related to them. Publ: The regional interpretation of Manhattan population and housing patterns through factor analysis, 10/66 & co-auth, Education and urban geography in Washington, D.C: a factor analytic study, (in press), Geog. Rev. Address: Dept. of City & Regional Planning, Livington College, Rutgers, The State University, New Brunswick, N.J. 08903.

CAREY, DR. HENRY AMES, Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 65.

CAREY, PROF. JAMES C(HARLES), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CAREY, DR. JANE PERRY CLARK, b. Wash, D.C, Sept. 26, 98. GOVERNMENT. A.B, Vassar Col, 20; A.M, Columbia, 22, Ph.D, 31. Instr. govt, Barnard Col, Columbia, 29-37, asst. prof, 37-53; POLIT. WRITER, 53- Soc. Sci. Res. Coun. grant in aid, 33-36, 48; mem. tech. staff, U.S. Govt. Cmt. Econ. Security, 34. Consult, Soc. Security Bd, 35-46; asst. adv. refugees & displaced persons, U.S. Dept. State, 43-46, consult, 46-47 & 64-67, spec. expert, 51; expert consult, U.S. Dept. Army, 48. Trustee, Vassar Col, 42-50; Mt. Vernon Jr. Col, 42-; Robert Col. Istanbul, Turkey, 48-; Anatolia Col. Salonika, Greece, 60-; trustee, For. Policy Asn, 48-, secy, 55-65. Prin. training specialist, U.S. Civil Serv. Cmn, 43; mem. U.S. Fulbright Cmn, Italy, 53-54. Polit. Sci. Asn; Soc. Pub. Admin. Constitutional law and public administration; immigration law; federalism; comparative government. Publ: The rise of a new federalism; Deportation of aliens from the United States; co-auth, The web of politics of modern Greece, 68. Address: Godfrey Rd, Weston, Conn. 06880.

CAREY, PROF. J(OSEPH) P(ATRICK), b. Mt. Pleasant, Mich, Jan. 4, 86; m. 16; c. 4. GEOGRAPHY. B.S, Chicago, 15, M.S, 32. Instr. geog, East. Ill. Teachers Col, 16-19; bus, exec, 19-25; prof. GEOG, CENTRAL MICHIGAN, 25-56, head dept, 44-56, EMER. PROF, 56- Asn. Am. Geog; Am. Geog. Soc; Coun. Geog. Ed. Climatology; economic geography; city and municipal planning. Publ: Agricultural geography of Mt. Pleasant area; Changed cultural landscape resulting from petroleum industry of Michigan; Central Illinois tornado, Geog. Rev. Address: 314 E. Cherry St, Mt. Pleasant, Mich. 48858.

CAREY, DR. JUSTIN P(AUL), b. New York, N.Y, Jan. 25, 20; m. 47; c. 4. PSYCHOLOGY. A.B, Fordham, 40, A.M, 41; Command & Gen. Staff Col, 50; Ph.D.(psychol), Columbia, 51, M.A, 52, dipl, 53, Ed.D, 54; LL.B, N.Y. Univ, 57. RES. CONSULT, HUMAN RELS. INST. AM, 54-; MGT. CONSULT, JOHN J. HENDERSON & ASSOCS, 59- Private practice, 46-; lectr, Columbia, 50-56. U.S.A, 41-46, Maj. Fel. AAAS; Psychol. Asn; Sociol. Asn; Adult Ed. Asn. U.S; Interam. Soc. Psychol; Acad. Psychother; Acad. Relig. & Ment. Health; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Int. Soc. Gen. Semantics. Interdisciplinary correlation of dynamics of personality, perception, communication and learning theory with psychotherapy; development of short-term intensive psychotherapeutic techniques; industrial and military personnel administration policies and procedures. Publ: The influence of knowledge of a prior criminal record of the defendant upon the jury verdict; Reinstatement of previously learned responses during extinction; Interdisciplinary relations and the personnel point of view. Address: 105 Lyncroft Rd, New Rochelle, N.Y. 10804.

CAREY, DR. OMER L(IGON), b. Ellsworth, Ill, Jan. 24, 29; m. 54; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. B.A, Ill. Wesleyan, 54; M.B.A, Indiana, 60, D.B.A, 62. Asst. prof. bus. admin. & asst. dir. bur. bus. res, Idaho State, 62-64; asst. prof. BUS. FINANCE, WASHINGTON STATE, 64-67, ASSOC. PROF, 67- Summers, res. economist, bur. econ. & bus. res, Washington State, 65, assoc. prof, state tech. serv. act seminar, 67 & vis. asst. prof, Washington (Seattle), 66. Finance Asn; Econ. Asn. Economics of recreation; financial theory. Publ: The economics of recreation: progress and problems, West. Econ. J, Vol. III, 2; Innovation and experimentation in higher education for business—an honors course for future business leaders, AACSB Bull, 10/66, The case for a new financial instrument, Bankers Mag, spring 67. Address: 411 High, Pullman, Wash. 99163.

CARINI, DR. LOUIS PETER, b. Milford, Mass, July 10, 21; m. 54; c. 1. PSYCHOLOGY. A.B, Clark, 49, scholar, 49-50, fel, 50-52, M.A, 51, Ph.D. (psychol), 55. Res. scientist, Rockland State Hosp, State Dept. Ment. Hygiene, Orangeburg, N.Y, 54-56, sr. res. scientist, 56-57, assoc. res. scientist, 57-58; MEM. FACULTY PSYCHOL, BENNINGTON COL, 58- Res. assoc, dept. psychiat, Columbia, 57-58; proj. dir, Elem. & Sec. Ed. Act. Prospect Sch. Proj, 66- U.S.A.A.F, 43-45, 2nd Lt. Psychol. Asn. Nature of thinking; postulational theory of perception; cognitive learning. Publ: Note on the theory of symbolic transformations, Perceptual & Motor Skills, 66; The symbolic transformations theory of learning, Proc. Annual Convention Am. Psychol. Asn, 67; The Aristotelian basis of Hull's behavior theory, J. Hist. Behav. Sci, 68. Address: Bennington College, Bennington, Vt. 05201.

CARISSE, DR. COLETTE B, b. St. Hyacinthe, Que, Apr. 10, 29; m. 55; c. 3. SOCIOLOGY. Ph.D.(sociol), Montreal, 64. ASST. PROF. SOCIOL, MONTREAL, 63- First prize, Sect. Humanities, Sci. & Lit. Competition, Prov. Que, 64. Am. Sociol. Asn; Int. Sociol. Asn; Nat. Coun. Family Rels. Publ: Co-auth, Planification des naissances au Canada Francais, Univ. Montreal, 63 & Orientation culturelle dans les mariages bi-ethniques, Rev. Francaise Sociol, 66. Address: 513 Stuart, Outremont, Que, Can.

CARL, PROF. MARY KATHRYN, b. Baltimore, Md, Dec. 2, 18. PSYCHOLOGY. B.S, Hopkins, 48; fel. & Ph.D.(ed), Maryland, 51. Ed. adv, col. spec. & continuation studies, Maryland, 49-58, asst. prof. ed, 51-55, assoc. prof, 55-58, prof. psychiat. nursing, 58-66, chmn. grad. progs. in nursing, 55-66; PROF. NURSING & DEAN COL. NURSING, DELAWARE, 66- Res. consult, McCormick & Co, Inc, 46-58; consult, nursing serv. admin, Vet. Admin, 53; Enoch-Pratt Free Library, Md, 54-55; Surg. Gen, U.S. Air Force, 58-59; Nat. Inst. Ment. Health, 62-65; Nat. League Nursing, 58-; Am. Asn. Indust. Nurses, 66- Psychol. Asn. Human relations; psychological testing; psychiatric nursing. Publ: Workbook in educational measurements; We need better prepared nurses for research; Analysis of the bedside nurse functions in six hospitals in Maryland. Address: College of Nursing, University of Delaware, Newark, Del. 19711.

CARLETON, DR. FREDERICK ONIAS, JR, b. Oneida, N.Y, Apr. 12, 24; m. 55; c. 3. PSYCHOLOGY, EDUCATIONAL MEASUREMENT. A.B, Union Col. (N.Y), 47; Ph.D.(psychol), Syracuse, 56. Prfnl. assoc, Richardson, Bellows, Henry & Co, Inc, 51-52; res. psychologist, personnel res. br, Adj. Gen. Off, U.S. Dept. Army, 55-57; asst. dir. res. & develop, Sci. Res. Assocs, Inc, 57-59; south. regional mgr, Richardson, Bellows, Henry & Co, Inc, 59-61; indust. psychologist, Sandia Corp, 61-64, consult. psychologist, 64-66; MGR. PSYCHOL. SERV, STANDARD OIL CO. OHIO, CLEVELAND, 66- Lectr, Loyola (La) & vis. assoc. prof, Tulane, 60-61; field assessment officer, Peace Corps Training Center Latin Am, Univ. New Mexico, 63-64, vis. assoc. prof, 63-66. Ed. consult, Lagos, Nigeria, Am. Insts. Res, 65. U.S.N.R, 43-46, Ens. AAAS; Psychol. Asn; Psychomet. Soc. Personnel research; measurement and evaluation; attitude and opinion; psychological assessment methodology; personality measurement; industrial mental health; managerial and educational psychology; training. Publ: Co-auth, Studies in managing research and development personnel, Res. Mgt, 64 & The industrial recruiter: a critique, J. Col. Placement, 64. Address: 28928 Millard Dr, Bay Village, Ohio 44140.

CARLETON, ROBERT O, b. Brooklyn, N.Y, Jan. 28, 14. SOCIOLOGY, MATHEMATICAL STATISTICS. A.B, Harvard, 35; M.A, New Sch. Soc. Res, 49; M.A, Columbia, 52. Asst, bur. appl. soc. res, Columbia, 52-53, asst. proj. dir, 53-54; res. assoc, Puerto Rico, 54-55; DEMOGRAPHER, P.R. Planning Bd, 55-62; POP. BR, BUR. SOC. AFFAIRS, UN, 62- Demographer, Latin Am. Center Demog, Santiago, Chile, 63-67; vis. fel. demog, int. pop. prog, dept. sociol, Cornell, 67-68. Sociol. Asn. Publ: Co-auth, Occupational mobility in the United States, 1940 to 1960. Address: Population Branch, Bureau of Social & Economic Affairs, United Nations, New York, N.Y. 10017.

CARLETON, DR. WILLARD T(RACY), b. Boston, Mass, May 3, 34; m. 58; c. 4. ECONOMICS, FINANCE. A.B, Dartmouth Col, 56, M B.A, 57; M.A, Wisconsin, 61, Ph.D.(econ), 62. Mem. staff, Bell Tel. Labs, Inc, 57-58; asst. econ, Wisconsin, 58-61; financial economist, Fed. Res. Bank St. Louis, 61-63; asst. prof. finance, N.Y. Univ, 63-65, ASSOC. PROF, 65-66; Quant. methods & managerial econ, Northwestern, 66-67; FINANCE & ECON, AMOS TUCK SCH. BUS. ADMIN, DARTMOUTH COL, 67- Faculty mem, Stonier Grad. Sch. Banking, 64-66. Consult. economist, Fed. Res. Bank New York, 64-; Fed. Deposit Ins. Corp, 66-; Mgt. sci. consult, North. Trust Co, Chicago, 66-67; First Nat. City Bank, New York, 67- Econ. Asn; Economet. Soc; Finance Asn; Statist. Asn; Inst. Mgt. Sci. Money, banking and finance and application of quantitative and economic tools to micro and macro decision problems. Publ: Co-auth, A theory of financial analysis, Harcourt, 66; co-auth, The integration of capital budgeting and stock valuation, Am. Econ. Rev, 9/64; co-auth, Short-run adjustments of an individual bank, Econometrica, 4/67. Address: Amos Tuck School of Business Administration, Dartmouth College, Hanover, N.H. 03755.

CARLETON, PROF. WILLIAM G(RAVES), b. Evansville, Ind, Nov. 19, 03. POLITICAL SCIENCE. A.B, Indiana, 26, A.M, 34; J.D, Florida, 30; North Carolina. Instr. hist, FLORIDA, 27-31, assoc. prof. polit. sci, 35-40, prof. polit. sci. & head dept. soc. sci, 40-67, EMER. PROF. POLIT. SCI, 67- Publ: The revolution in American foreign policy, Random, 67; Contrib. to Harper's Mag, Am. Scholar & Yale Rev, plus others. Address: 216 S.W. 12th St, Gainesville, Fla. 32601.

CARLEY, DR. DALE H(ERBERT), b. Fremont, Ohio, Aug. 21, 26; m. 56; c. 3. AGRICULTURAL ECONOMICS. Ph.D.(agr. econ), Ohio State, 59. Asst. instr, Ohio Exp. Sta, 55-59; agr. economist, GA. EXP. STA, U.S. DEPT. AGR, 59-65, ASSOC. ECONOMIST, 65- Farm Econ. Asn. Dairy marketing. Address: Dept. of Agricultural Economics, Georgia Experiment Station, Experiment, Ga. 30212.

CARLI, DR. A(RMANDO) RALPH, b. Malden, Mass, Jan. 7, 04; m. 28; c. 2. PSYCHOLOGY. A.B, New Hampshire, 27; A.M, Little Rock Col, 28; Ed.M, Harvard, 33; Ed.D.(ed. & psychol), Buffalo, 37. Assoc. prof. ed. & psychol, Canisius Col, 35-41; Marquette, 45; assoc. dir. lab. psychol. studies, Stevens Inst. Tech, 47-51, lectr. psychol, 48-51; dir. child guid. clin, Woods Schs, Pa, 51-52; chief counseling sect, Vet. Admin, Cleveland, Ohio, 52-54, area field supvr. counseling, Chicago, Ill, 54-56, chief surv. officer, D.C, 56-59; SPECIALIST COUNSELING & GUID. INSTS, DIV. HIGHER ED, U.S. OFF. ED, 59- Psychol. Asn; Personnel & Guid. Asn. Vocational counseling and evaluation; language and communication; aptitude and achievement testing. Address: 109 Trenton Place S.E, Washington, D.C. 20032.

CARLIN, DEAN EDWARD A(UGUSTINE), b. Gardiner, N.Y, Sept. 21, 16; m. 43; c. 2. SOCIAL SCIENCE. B.S, N.Y. Univ, 46, A.M, 47, Ph.D, 50. Instr, Packard Bus. Col, 46-47; from asst. prof. to PROF. SOC. SCI, MICH. STATE, 47-, DEAN UNIV. COL, 56-, asst. to dean, 55-56. U.S.A, 42-46, 1st Lt. Econ. Asn; Acad. Polit. & Soc. Sci. History of economic thought; relationships between American jurisprudence and economic theory; inconsistency in the judicial application of laissez-faire. Publ: Intangible property as a tool for analyzing business government relationships; Schunpeter's constructed type: the entrepreneur. Address: University College, 276 Bessey Hall, Michigan State University, East Lansing, Mich. 48823.

CARLIN, DR. T(HOMAS) WALTER, b. Mt. Vernon, N.Y, Feb. 25, 32; m. 63; c. 3. AUDIOLOGY, SPEECH PATHOLOGY. B.Sc, Ithaca Col, 64; dipl, Manchester, 60, Ph.D.(audiol), 65. Supvr. speech & hearing, pub. schs, 54-60; asst. prof. SPEECH PATH. & AUDIOL, ITHACA COL, 64-66, ASSOC. PROF, CHMN. DEPT. & DIR. EWING SPEECH CLIN, 66- Vis. lectr, grad. sch, Syracuse, 68- Consult, Guthrie Clin, 66-; Elmira Col, 67-68. Am. Speech & Hearing Asn; Brit. Soc. Audiol; Int. Soc. Audiol. Objective analysis of vocal quality; objective assessment of hearing in infants by electrocardiogram. Publ: Spectrographic presentation of the vocal quality of partially hearing school children, Int. Audiol, 3/68. Address: Ewing Speech Clinic, Ithaca College, Ithaca, N.Y. 14850.

CARLIN, WILLIAM P(OSCHMANN), b. U.S, Sept. 25, 11; m. 41; c. 1. ECONOMICS. B.A, Pittsburgh, 33; Western Reserve, 34-41; Case, 51. Asst. mgr. sales records, acids & heavy chem. div, E.I. du Pont de Nemours & Co, 33-37; economist & statistician, REPUB. STEEL CORP, 37-41, 45-58, asst. mgr. commercial res, 58-60, DIR. ECON. RES. & PLANNING, 60- Lectr, Western Reserve, 58-59. Consult, steel requirements cmt, U.S. Dept. Commerce, 51-52, chief bus. res, steel div, 53-54, exec. reserve, 54- U.S.A, 41-45, Lt. Col. Econ. Asn; Asn. Bus. Econ. Economic analysis of durable goods industries, especially inventory cycles, use of materials, capital goods expenditures and construction. Address: 2711 Cranlyn Rd, Shaker Heights, Ohio 44122.

CARLISLE, MAJ. C(ARSHALL) C(ARTER), JR, Econ, see 10th ed, Soc. & Behav. Vols.

CARLISLE, PROF. DOUGLAS HILTON, b. Jackson, Miss, July 27, 20; m. 42; c. 2. POLITICS, INTERNATIONAL RELATIONS. A.B, Mississippi, 41; M.A, North Carolina, 42, Ph.D, 51. Assoc. prof. POLIT. SCI, South Carolina, 46-64; PROF, TENNESSEE, 64- Prof, U.S. Naval War Col, 57-58. Consult, U.S. Dept. Defense, 62; U.S. Dept. State, 63. U.S.N.R, 42-62, Lt. Polit. Sci. Asn; Am. Soc. Int. Law; Int. Studies Asn; Int. Law Asn. Party organization, campaign methods, election laws and political leadership; organization for the conduct of foreign affairs, diplomacy and national security; international relations of Latin America; elements of national power that influence a state's position in the international community. Publ: Contrib, Presidential nominating politics; auth, Party loyalty, Pub. Affairs, 63; Federally sponsored research, Dept. State, 64. Address: Dept. of Political Science, University of Tennessee, Knoxville, Tenn. 37916.

CARLISLE, DR. ROBERT BRUCE, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CARLISLE, ROBERT M(ERRILL), b. Notasulga, Ala, May 24, 27. ECONOMICS. B.S, Auburn, 49; M.S, Purdue, 51. Statist. analyst, Ralph M. Parsons Co, 53-54; instr. econ, Memphis State, 54-55; sr. opers. res. analyst, Lockheed Aircraft Corp, Ga, 55-57; sr. res. engr, Gen. Dynamics/Convair, 57-59; proj. engr. opers. anal, defense systs. dept, Gen. Elec. Co, 59-61, mem. prfnl. staff econ. anal. defense probs, tech. mil. planning oper, 61-63; mem. tech. staff, Aerospace Corp, 63-65; sr. staff. engr, systs. div, Bendix Corp, 65-67; SR. ECONOMIST, DIKEWOOD CORP, 67- Adj. prof, Ga. State Col, 56. Mem, Joint Study Group Mil. Resource Allocation Methodology, 68. U.S.N, 45-46; U.S.A.F.R, 46-, Capt. AAAS; Econ. Asn; Opers. Res. Soc; Inst. Mgt. Sci; Agr. Econ. Asn. Economic analysis of weapon systems; empirical economic analysis. Publ: Economic analysis of milk bargaining cooperatives serving Indiana; Business implications of satellite maintenance and repair; Cost sensitivity analysis of design characteristics of meteorological satellite system, Bendix Corp, 65. Address: 1331 Park Ave. S.W, Apt. 901, Albuquerque, N.Mex. 87102.

CARLOCK, DR. JOHN EDWIN, b. Jersey City, N.J, Mar. 12, 10. ACCOUNTING. B.C.S, N.Y. Univ, 34, M.B.A, 42, Ph.D.(econ. & acct), 57. Statistician, Pa. State, 42-43; acct. in charge, Haskins & Sells, Pa, 43-46; asst. prof. acct, Temple, 46-62; prof. & chmn. dept, STATE UNIV. NEW YORK ALBANY, 62-67, ACTING DEAN ADMIN, 67- Area chmn, Nat. Acct. Careers Coun, 64- Acct. Asn; Nat. Asn. Acct; Budget Execs. Inst. Accounting control for federal expenditures. Address: 14 Adams Ave, Woodland Park, Rensselaer, N.Y. 12144.

CARLS, PROF. NORMAN, b. Virginia, Illinois, Dec. 22, 07; m. 45; c. 1. GEOGRAPHY. B.Ed, Illinois State, 32; A.M, Clark, 34, Ph.D.(geog), 35. Instr. geog, Ore. Col. Ed, 35-38, asst. prof, 38-40; chmn. dept, Eastern Illinois, 40-46; chief opers, geog. div, U.S. Bur. Census, 46-47; assoc. prof. GEOG, American Univ, 49-51, prof, 51-55; prof. & chmn. dept, Pittsburgh, 55-58; vis. prof. Teachers Col, Columbia, 63-64; PROF. & CHMN. DEPT, SHIPPENSBURG STATE COL, 64- U.S.N.R, 42-46, Lt. Comdr. Asn. Am. Geog; Nat. Coun. Geog. Ed.(pres, 56). Political geography; world land utilization; world problems of food, population and resource development. Publ: Co-auth, Neighbors across the seas, 50 & 59, Our United States in a world of neighbors, 64 & Knowing our neighbors series, 66. Address: Dept. of Geography, Shippensburg State College, Shippensburg, Pa. 17257.

CARLSMITH, DR. JAMES MERRILL, b. New Orleans, La, Apr. 12, 36; m. 63; c. 3. PSYCHOLOGY. A.B, Stanford, 58; Ph.D.(soc. psychol, statist), Harvard, 63. Lectr. PSYCHOL, Yale, 62-63, asst. prof, 63-64; ASST. PROF, STANFORD, 64- Psychol. Asn. Publ: Co-auth, Cognitive consequences of forced compliance, 58 & Effect of severity of threat on devaluation of forbidden behavior, 63, J. Abnorm. Soc. Psychol; co-auth, Experimentation in social psychology, In: Handbook of Social Psychology, 68. Address: Dept. of Psychology, Stanford University, Stanford, Calif. 94025.

CARLSON, PROF. ALBERT S(IGFRID), b. Worcester, Mass, July 4, 07; m. 33; c. 3. ECONOMIC GEOGRAPHY. A.B, Clark, 29, A.M, 32, Ph.D.(econ. geog), 38. Instr. geog, DARTMOUTH COL, 29-37, asst. prof. econ. geog, 37-44, PROF. GEOG, 44- Industrial location; economic geography of New England. Address: 7 Conant Rd, Hanover, N.H. 03755.

CARLSON, PROF. A(RTHUR) E(UGENE), b. Whitewater, Wis, May 10, 23; m. 44; c. 1. ACCOUNTING. Ed.B, Wis. State Col, 43; M.B.A, Harvard, 47; Ph.D, Northwestern, 54. Instr. acct, Ohio, 47-50; lectr, Northwestern, 50-52; asst. prof. mgt, WASHINGTON (ST. LOUIS), 52-58, assoc. prof. ACCT. & MGT, 58-61, PROF, 61- Consult, exec. develop. prog, Monsanto Chem. Co, 56- U.S.N.R, 43-46, Lt. Am. Acct. Asn; Nat. Asn. Acct; Soc. Adv. Mgt. Production management; industrial accounting; electronic data processing. Publ: Workbook of study guides for accounting principles; co-auth, College accounting, South-Western Pub, 67; auth, Working contacts of cost and production control, Nat. Asn. Acct. Bul. Address: 8023 Gannon Ave, St. Louis, Mo. 63130.

CARLSON, DR. DOROTHY TERRY, b. Madison, Wis, Feb. 6, 22; m. 61; c. 1. PSYCHOLOGY. B.A, Wisconsin, 43, M.A, 45, Ph.D.(psychol), 50. Asst. prof. psychol, North Carolina, 50-53; psychiat, Yale, 53-59; GRANTS PROG. SPECIALIST, NAT. INST. MENT. HEALTH, 59- Psychol. Asn. Etiology of schizophrenia; projective tests. Publ: Use of a rating scale for level of response in TAT stories, J. Abnorm. & Soc. Psychol; Prediction of family interaction from a battery of projective techniques, J. Proj. Tech; co-auth, Intrafamilial environment of the schizophrenic patient: IV, Arch. Neurol. Psychiat. Address: National Institute of Mental Health, Bethesda, Md. 20203.

CARLSON, DR. EARL R(ICHARD), b. Seattle, Wash, Feb. 13, 27; m. 49; c. 2. PSYCHOLOGY. Fel, Washington (Seattle), 48-49; fel, Michigan, 49-52, Ph.D. (psychol), 54. Asst. attitude change proj, Michigan, 52-53; res. assoc, psychol. warfare div, human resources res. off, George Washington, 53-55; asst. prof. PSYCHOL, Mich. State, 55-61; ASSOC. PROF, CALIF. STATE COL. LONG BEACH, 61- U.S.N, 45-46. Psychol. Asn. Attitude organization and change; influence of communications upon attitudes; personality organization and development. Publ: Attitude change through the modification of attitude structure, J. Abnorm. & Soc. Psychol; Psychological satisfaction and interest in news, Journalism Quart, 60; The affective tone of psychology, J. Gen. Psychol, 66. Address: Dept. of Psychology, California State College at Long Beach, Long Beach, Calif. 90804.

CARLSON, PROF. F(RED) A(LBERT), b. Pittsfield, Mass, Oct. 24, 92; m. 22; c. 1. GEOGRAPHY. B.S, Massachusetts, 18; Ph.D.(soils), Cornell, 22. Instr. geol, Cornell, 19-21; asst. prof. soil tech, California, 21-22; GEOG, OHIO STATE, 22-26, prof, 26-63, EMER. PROF, 63- Asn. Am. Geog. Agricultural resources of the world; geography of Latin America, especially tropical areas. Publ: Geography of transportation; Geography of Latin America; West Indies and Amazon region. Address: 30 W. Kelso St, Columbus, Ohio 43202.

CARLSON, DR. GARY, b. Los Angeles, Calif, Mar. 6, 28; m. 54; c. 5. INDUSTRIAL PSYCHOLOGY. B.A, California, Los Angeles, 56, M.A, 58, Ph.D. (indust. psychol), 62. Psychologist, Tanner & Assocs, 55-59; sr. opers. res. specialist, Hughes Aircraft Co, 59-61; sr. res. specialist info. retrieval, Adv. Info. Systs, Inc, 61-63; DIR. COMPUT. RES. CENTER, BRIGHAM YOUNG, 63- U.S.A, 53-55. AAAS; Asn. Comput. Mach. Artificial intelligence, including self-organizing systems for information retrieval using heuristic routines; operations research in personnel work. Publ: Predicting clerical error, Datamation, 2/63; Techniques for replacing characters that are garbled on input, Proc. Joint Comput. Conf, spring 66. Address: 3289 Mohawk Circle, Provo, Utah 84601.

CARLSON, DR. GORDON J(OHN), Psychol, see 10th ed, Soc. & Behav. Vols.

CARLSON, PROF. GUSTAV G(UNNAR), b. Gwinn, Mich, Nov. 21, 09; m. 33; c. 2. ETHNOLOGY. A.B, Northern Michigan, 32; fel, Lab. Anthrop, 33; A.M, Michigan, 34, Ph.D.(anthrop, sociol), 40. Instr. anthrop, Cincinnati, 36-40, asst. prof, 40-43; chief of intel, Off. War Info, Kunming, China, 43-46; assoc. prof. ANTHROP, CINCINNATI, 46-52, PROF, 52-, HEAD DEPT. SOCIOL. & ANTHROP, 61- Consult. supvr. for mus, Works Progress Admin, Ohio, 38-40. Fel. Anthrop. Asn. European ethnology; Far Eastern cultures; specific research on Lahu people of Burma. Address: Dept. of Sociology & Anthropology, University of Cincinnati, Cincinnati, Ohio 45221.

CARLSON, PROF. HAROLD S(IGURD), b. Beresford, S.Dak, Aug. 23, 03; m. 31; c. 1. PSYCHOLOGY. A.B, St. Olaf Col, 26; M.A, Iowa, 29, Ph.D. (child develop), 34. Instr. psychol, Long Island, 29-32; asst, State Child Welfare Res. Sta, Iowa, 32-34; res. asst. & counsr, pub. sch, D.C, 34-36; acting prof. psychol. & ed, Eureka Col, 36-38, asst. to pres, 38-39; assoc. prof. psychol, Upsala Col, 39-46, prof, 46-65, assoc. dean students, 43-53, dean students, 53-62; PROF. PSYCHOL, CARTHAGE COL, 65- Consult, psychol. studies lab, Stevens Inst. Tech, 56-65; secy-treas, Am. Asn. State Psychol. Bd, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol. AAAS; fel. Psychol. Asn; Personnel & Guid. Asn. Personality dynamics; guidance tests; adjustment problems of college freshmen. Publ: Information and certainty in political opinions: a study of university students during a campaign, Univ. Iowa Student Character; Teachers' attitudes in relation to classroom morale and cheating, J. Exp. Ed; Methods of evaluating the effectiveness of liberal arts college, Christian Ed. Address: Dept. of Psychology, Carthage College, Kenosha, Wis. 53140.

CARLSON, PROF. HILDING B(ROR), b. Chicago, Ill, Feb. 21, 02; m. 30; c. 2. PSYCHOLOGY. Ph.B, Chicago, 30, M.S, 32, Ph.D.(psychol), 37. Asst. psychol, Chicago, 31-33; clin. psychologist, munic. psychiat. inst, Munic. Courts of Chicago, 32-37; assoc. psychol, Illinois, 38-43, asst. prof, 43-44, counsr, personnel bur, 40-44; assoc. prof, Occidental Col, 45-48, prof, 48; assoc. prof. PSYCHOL, SAN DIEGO STATE COL, 48-51, PROF, 51- Private consult, Psychol. Assocs, 49- Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn; Inter-Am. Soc. Psychol; Acad. Psychother. Clinical psychology; counseling; personality; psychotherapy; life therapeutic experiences; the case of Henry. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

CARLSON, DR. JACK WILSON, b. Salt Lake City, Utah, Nov. 20, 33; m. 54; c. 6. ECONOMICS. B.S, Utah, 55, M.B.A, 57; M.P.A. & Ph.D.(econ), Harvard, 63. Instr. bus. admin, Utah, 56-57; assoc. prof. econ, U.S. Air Force Acad, 59-65; asst. spec. studies, Secy, Air Force, U.S. Dept. Defense, 65-66; SR. STAFF ECONOMIST, PRESIDENT'S COUN. ECON. ADV, 66- Mem, Nat. Marine Sci. Coun, 66-; Fed. Coun. Sci. & Tech, 66-; observer, Nat. Water Resources Coun, 66- U.S.A.F, 57-66, Maj. Econ. Asn. Fiscal policy; micro-economic policy; science and technology. Address: 500 Canterbury Lane, Alexandria, Va. 22314.

CARLSON, DR. JEAN BURKE, b. Chicago, Ill, Jan. 21, 22; m. 49; c. 2. PSYCHOLOGY. B.A, Illinois, 43; M.S, Northwestern, 54, Ph.D.(psychol), 61. INSTR. PSYCHOL, KENDALL COL, 61- W.A.V.E.S, 43-46, Lt.(jg). Psychol. Asn. Perception; development self concept; intellectual development of child. Address: 2622 Isabella St, Evanston, Ill. 60201.

CARLSON, DR. JERRY, b. Seattle, Wash, May 4, 36; m. 65; c. 3. EDUCATION. B.A, Washington (Seattle), 58; State Univ. N.Y, 60; M.S, South Dakota, 63; Ph.D.(ed), California, 66. ASST. PROF. ED, CALIFORNIA, RIVERSIDE, 66- AAAS; Ed. Res. Asn; Nat. Asn. Res. Sci. Teaching. Cognitive development; science education. Publ: Effects of instruction on the concept of conservation of substance, 3/67 & Developmental psychology and the implication for science education, 4/67, Sci. Ed; Elementary curriculum and the verbal mediation model: some psychological considerations; Calif. J. Instructional Improvement, 10/68. Address: Dept. of Education, University of California, Riverside, Calif. 92502.

CARLSON, DR. JOHN A(LLYN), b. Boston, Mass, July 4, 33; m. 57; c. 2. ECONOMICS. B.S, Denison, 55; Ph.D.(polit. econ), Hopkins, 61. Actuarial trainee, Mutual of N.Y. Life Ins. Co, 55-57; res. aide ECON, Princeton, 60-61; vis. asst. prof, Cornell, 61-62; asst. prof, PURDUE, 62-66, ASSOC. PROF, 66- Ford Found. faculty fel, 67-68. Econ. Asn; Economet. Soc. Economic theory; experimental economics; analysis of business sales anticipations; statistics. Publ: Forecasting errors and business cycles, Am. Econ. Rev, 6/67; Stability of an experimental market with a supply-response lag, South. Econ. J, 1/68; co-auth, Production index bias as a measure of economic development, Oxford Econ. Papers, 3/68. Address: Dept. of Economics, Purdue University, Lafayette, Ind. 47907.

CARLSON, DR. JOHN G(REGORY), b. Minneapolis, Minn, Mar. 25, 41; m. 63. PSYCHOLOGY. B.A, Minnesota, Minneapolis, 63, Nat. Inst. Ment. Health fel, 65, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, HAWAII, 67- AAAS; Psychol. Asn. Operant conditioning; noncontingent reinforcement effects; frustrative nonreward and instrumental response blocking. Publ: Co-auth, The effect of noncontingent fixed-and variable-interval reinforcement upon subsequent acquisition of the fixed-interval scallop & Proximity of manipulandum and foodcup as a determinant of the generalized SD effect, 65 & auth, Pseudomediation effects with no intertrial intervals, 66, Psychonomic Sci. Address: Dept. of Psychology, University of Hawaii, Honolulu, Hawaii 96822.

CARLSON, PROF. J(OHN) SPENCER, b. Portland, Ore, May 7, 12; m. 40; c. 4. PSYCHOLOGY. B.S, Oregon, 35; M.A, Minnesota, 37. Field tech. rep, U.S. Employ. Serv, 37-43; personnel res. supvr, Pan Am. Airways, 43-45; supvr. auto parts, Carlson, Hatton & Hay, Ore, 45-47; asst. prof. PSYCHOL, OREGON, 47-55, assoc. prof, 55-66, PROF. & ASSOC. DEAN STUDENTS FOR RES, 67-, dir. couns. center, 47-51, 59-67, admissions & couns, 51-59. Fulbright lectr, Teheran, 63-64. Psychol. Asn; Coun. Measurement in Ed. Industrial psychology; aptitude testing. Publ: The relation of counseling to admissions, Minn. Study Student Personnel Work; College norms; Relationship of high school achievement to college performance. Address: 365 Sunset Dr, Eugene, Ore. 97403.

CARLSON, DR. (STELLA) LUCILE, b. Minot, N.Dak. GEOGRAPHY. B.A, N.Dak. State Teachers Col, 31; M.A, Washington (Seattle), 42, Ph.D.(geog), 47. Instr. GEOG, Washington (Seattle), 47-48; from asst. prof. to ASSOC. PROF. & CHMN. DEPT, CASE WESTERN RESERVE, 48- Asn. Am. Geog; fel. Am. Geog. Soc; Coun. Geog. Ed.(Whitbeck award, J. Geog, 54); Royal Geog. Soc; African Studies Asn. Political geography; Africa; Europe. Publ: Geography and world politics; Africa's lands and nations, McGraw, 67; Southern peninsular Europe, In: World Geography. Address: Dept. of Geography, Case Western Reserve University, Cleveland, Ohio 44106.

CARLSON, DR. MARVIN L(EE), b. Sioux Falls, S.Dak, June 8, 39; m. 67. ACCOUNTING, ECONOMICS. B.A, Augustana Col, 61; M.B.A, Wisconsin, 62, Ph.D.(bus), 64. ASST. PROF. ACCT, WASHINGTON (ST. LOUIS), 64- Mem, Meet Mod. Sweden Cmt. & Exp. in Int. Living Study Group, summer 66. Acct. Asn; Asn. Acct. Accounting theory. Publ: An application of concepts in the theory course, Acct. Rev, 7/67. Address: Dept. of Accounting, Washington University Graduate School of Business, St. Louis, Mo. 63130.

CARLSON, DR. MILTON E, b. Duluth, Minn, Feb. 21, 26; m; c. 1. INDUSTRIAL MANAGEMENT. B.A, Northland Col, 49; M.S, Wisconsin, 56, Ph.D, 59. Teacher, high schs, Wis, 49-53; asst. instnl. res, Wisconsin, 55-59; asst. prof. mgt. & finance, NORTHERN ILLINOIS, 59-61, assoc. prof. MGT, FINANCE & STATIST, 61-66, PROF. & ASST. DIR. UNIV. RES, 66-, assoc. dir. instnl. res, 59-66. U.S.A, 53-55. Statist. Asn; Asn. Instnl. Res.(treas, 66-); Ed. Res. Asn. Educational administration; industrial management; university research; statistics; mathematics; the natural sciences. Publ: Study of factors related to educational opportunities in Wisconsin with special reference to the University of Wisconsin extension centers, Dissertation Abstracts. Address: Bureau of University Research, Northern Illinois University, De Kalb, Ill. 60115.

CARLSON, DR. N(ILS) JAMES, b. Ann Arbor, Mich, Nov. 2, 29; m. 54; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Michigan, 50; M.A, Wayne State, 52; Ph.D, Western Reserve, 57. Asst. psychol, Wayne State, 51-52; Western Reserve, 52-54; div. behav. studies, Jackson Mem. Lab, Maine, 54-56; res. assoc. psychol, PSYCHIAT. LAB, CASE WESTERN RESERVE, 56, lectr, 57-58, res. fel, 58-66, ASST. PROF. PSYCHOL. IN PSYCHIAT. & ASSOC. PSYCHOL, 66- U.S. Pub. Health Serv. fel. & res. assoc, lab. soc. rels, Harvard, 56-57. AAAS; Psychol. Asn; N.Y. Acad. Sci. Psychopharmacology; avoidance learning; autonomic conditioning; extinction. Publ: Co-auth, Exploratory studies of conditioning of autonomic responses in curarized dogs, Psychol. Monogr; The effects of dl-amphetamine and reserpine on runway performance, Psychopharmacologia; A test of the conservation of anxiety and partial irreversibility hopotheses, Can. J. Psychol. Address: 8 Mornington Lane, Cleveland Heights, Ohio 44106.

CARLSON, DR. RAE S(TAHL), b. Valentine, Nebr, Feb. 16, 26; m. 49; c. 2. PSYCHOLOGY. B.A, Nebraska, 47; M.S, Washington, 49; Ph.D.(psychol), Michigan, 58. Psychologist, Seattle Pub. Schs, Wash, 47-48; ASSOC. PROF. PSYCHOL, CALIF. STATE COL. FULLERTON, 61- Psychol. Asn; Soc. Res. Child Develop; Int. Coun. Psychol. Personality structure; processes in character development; typological approaches to personality; cognitive processes. Publ: Parental identification and personality structure, J. Abnorm. & Soc. Psychol, 63; Stability and change in adolescent's self-image, Child Develop, 65; co-auth, Generality of social schemas, J. Personality & Soc. Psychol, 66. Address: Dept. of Psychology, California State College at Fullerton, 800 N. State College Blvd, Fullerton, Calif. 92631.

CARLSON, DR. REYNOLD E(RLAND), b. Chicago, Ill, Sept. 7, 12. ECONOMICS. B.S, Northwestern, 36, A.M, 37; Ph.D, Harvard, 46. Asst. prof, Hopkins, 40-48; assoc. prof. econ, Vanderbilt, 49-53, dir. Inst. Brazilian Studies, 50-53; sr. economist, World Bank, 53-58; prof. econ. & dir. grad. prog. econ. develop, Vanderbilt, 58-63; assoc. dir, Ford Found, Latin Am, 65-66; U.S. AMBASSADOR TO COLOMBIA, U.S. DEPT. STATE, 66- Econ. affairs officer, UN, 46-48, consult, econ. cmn. for Latin Am, 48. Consult, Ford Found, 59-61, res. rep. to Brazil, 61-65. Sr. economist, Off. Price Admin, 42. U.S.A.A.F, 42-45, Lt. Econ. Asn. Public finance and taxation; Latin American economic development. Publ: Bases of Brazil's economy, In: Brazil; Latin American economic picture, In: The United States and Latin America; Role of world bank in Latin America, In: Economic development and international trade. Address: American Embassy, Bogota, Colombia.

CARLSON, DR. ROBERT O, b. Erie, Pa, Dec. 23, 21. SOCIOLOGY. Ph.D, Columbia, 52. Health prog. analyst, U.S. Pub. Health Serv, 48-51; study dir, bur. appl. soc. res, Columbia, 51-53; res. analyst, STANDARD OIL CO. N.J, 53-59, PUB. REL. ADV, OVERSEAS AFFILIATES, 59- Mem. faculty seminar, Inst. Relig. & Soc. Studies; chmn. ed. cmt, Pub. Opinion Quart. Trustee, Int. Col, Lebanon. Mem. res. adv. cmt, Found. Res. Human Behav. U.S.A, 42-46, 1st Lt. Sociol. Asn.(exec. officer); Asn. Pub. Opinion Res.(pres, 60-61). Attitude and opinion; communications. Publ: The nature of corporate images, Wiley, 63; The issue of privacy in public opinion research, Pub. Opinion Quart, spring 67; Public relations, In: International encyclopedia of the social sciences, Macmillan, Vol. XIII 68. Address: 1 W. 72nd St, New York, N.Y. 10023.

CARLSON, RONALD K(ENT), Econ, see 10th ed, Soc. & Behav. Vols.

CARLSON, DR. ROY LINCOLN, b. Bremerton, Wash, June 25, 30; m. 53; c. 4. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Washington (Seattle), 52, M.A, 55; Ph.D.(anthrop), Arizona, 61. Curator, Klamath County Mus, Ore, 56-58; res. assoc. anthrop, Mus, Univ. Colorado, 61-63, asst. prof. anthrop, univ, 63-64, natural hist, mus, 64-65, field dir, Univ. Colorado Nubian Exped, Sudan, 65-66; asst. prof. ANTHROP, SIMON FRASER UNIV, 66-67, ASSOC. PROF, 67- Nat. Sci. Found. res. grant, Sudan, 64-68. Med.C, U.S.A, 65-66. Anthropol. Asn; Soc. Am. Archaeol. Prehistoric archaeology of the Paleolithic of North Africa, the Northwest coast of North America, and the Southwestern United States. Publ: Eighteenth century Navajo fortresses of the Gobernador District, New Mexico, Univ. Colorado, 65; Archaeological investigation in the San Juan Islands, Washington, Am. Antiq, 60; A late Neolithic site in the Murshid District, Nubia, Kush, Sudan, J. Antiq. Serv, 66. Address: Dept. of Political Science, Sociology & Anthropology, Simon Fraser University, Burnaby 2, B.C, Can.

CARLSON, PROF. THEODORE L(EONARD), b. Des Moines, Iowa, Nov. 5, 05; m. 37; c. 2. ECONOMICS, HISTORY. A.B, Augustana Col, 29; M.A, Illinois, 33, Ph.D.(econ, hist), 47; summers, Harvard, 39, Chicago, 41. Teacher, high sch, Ill, 29-43; asst. prof. econ. & hist, West. Ill. Col, 43-47; PROF. ECON, WESTERN MICHIGAN, 47- Consult. before Indian Land Claims Cmn, U.S. Dept. Justice, 58-61. Econ. Asn; Hist. Asn. Illinois history and government. Publ: Aurora, government and institutions; Illinois, government

and institutions; The Illinois military tract, a study of land occupation, utilization and tenure. Address: 2205 Benjamin Ave, Kalamazoo, Mich. 49001.

CARLSON, DR. VALDEMAR, b. Lindsborg, Kans, Nov. 23, 99; m. 32; c. 2. ECONOMICS. A.B, Kansas, 24; Ph.D, Harvard, 31. Asst. prof. ECON, North Carolina, 29-30; Williams Col, 31; from asst. prof. to prof, Antioch Col, 33-65; LECTR, CALIF. STATE COL. FULLERTON, 67- Asst. prof, Texas, 41-42. Econ. Asn. Economic welfare and history. Publ: Economic security in the United States, McGraw, 62; Institutional change in a welfare state: Sweden, J. Risk & Ins, 12/66; Education of an economist before the great depression, Am. J. Econ. & Sociol, 1/68. Address: Dept. of Economics, California State College at Fullerton, Fullerton, Calif. 92631.

CARLSON, DR. VIRGIL R(UBEN), b. Newman Grove, Nebr, Apr. 7, 25; m. 47; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, California, 50; M.A, Hopkins, 52, Ph.D.(psychol), 53. Asst, Hopkins, 50-53, instr. abnorm. psychol, McCoy Col, 53; RES. PSYCHOLOGIST, NAT. INST. MENT. HEALTH, 53-, CHIEF PERCEPTION SECT, 65- U.S.N, 43-45. Psychol. Asn. Visual and time perception; perceptual adaptation. Address: National Institute of Mental Health, Bethesda, Md. 20014.

CARLSON, DR. WENDELL R(OBERT), b. Greensburg, Pa, July 17, 08; m. 32. PSYCHOLOGY. A.B, Alabama, 30; M.A, Pennsylvania, 32, Ph.D.(psychol), 46. Psychologist, East. State Penitentiary, Pa, 34-40; U.S. Pub. Health Serv. psychologist, U.S. Fed. Reformatory, Ohio, 40-42; psychologist, Cent. Intel. Agency, D.C, 46-47; chief clin. psychologist, area med. off, Vet. Admin, 47-64; MENT. HEALTH CONSULT. PSYCHOL, REGIONAL OFF. IX, NAT. INST. MENT. HEALTH, SAN FRANCISCO, 64- Consult, Edward Glaser & Assocs, Calif, 52-64; west. interstate cmn. higher ed, Ment. Health Training & Res. Surv, 55-56. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 42-46, Lt. Comdr. AAAS; fel. Psychol. Asn. Community mental health; mental health program development; psychology training. Address: 38 Terrace Court, Tiburon, Calif. 94920.

CARLSON, DR. WILLIAM A(RTHUR), b. Kewanee, Ill, May 10, 26; m. 51; c. 2. EDUCATION, PSYCHOLOGY. B.S, Illinois, Urbana, 51, Ed.M, 55, Ed.D, 61. Teacher, jr. high sch, Ill, 52-55; asst. & counsr, univ. high sch, Univ. Illinois, Urbana, 55-57; counseling psychologist trainee, Vet. Admin. Hosp, Danville, 57-61, counseling & clin. psychologist, 61-66; ASSOC. PROF. COUNSR. ED, WESTERN MICHIGAN, 66- Counsr, student counseling serv, Illinois, Urbana, 57, vis. lectr, 62-66; counsr, Danville Jr. Col, 60-61. U.S.A.A.F, 44-46. Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. Psychotherapy and counseling; counselor education; visual perception; cognitive processes and physiological arousal. Publ: Co-auth, Binocular summation in the perception of form at brief durations, Perception & Psychophys, 66; Dichopic summation of information in the recognition of briefly presented forms, Psychonomic Sci, 66; Autonomic responsivity to variable input rates among schizophrenics classified on the process-reactive dimension, J. Abnorm. Psychol, 66. Address: Guidance & Personnel Services, Western Michigan University, Kalamazoo, Mich. 49001.

CARLSSON, DR. ROBERT JOHAN, b. New York, N.Y, Feb. 16, 38; m. 66. ECONOMICS. A.B, Rutgers, 60, Nat. Sci. Found. fel, 63-64, Ph.D.(econ), 64. ASST. PROF. ECON, SOUTH CAROLINA, 66- U.S.A, 64-66, Capt. Econ. Asn. Micro-macro economic theory; economic growth and development. Address: Dept. of Economics, University of South Carolina, Columbia, S.C. 29208.

CARLTON, DR. PETER L(YNN), Psychol, see 11th ed, Phys. & Biol. Vols.

CARLTON, DR. ROBERT L, b. Murray, Ky, June 1, 18; m. 46; c. 2. CLINICAL PSYCHOLOGY. B.S, Murray State Col, 48; M.A, Ohio State, 50, Ph.D. (speech path, clin. psychol), 53. Chief psychologist, CHILDREN'S MENT. HEALTH CENTER, 52-63, ASSOC. DIR, 63- Lectr, Ohio State, 65-, clin. asst. prof, 66- U.S.A.F, 42-46, Res, Lt. Col. Psychol. Asn; Speech & Hearing Asn; Coun. Except. Children. Child guidance; personality evaluation; disorders of speech. Address: 928 Meadowview Dr, Columbus, Ohio 43224.

CARMACK, DR. ROBERT, b. Winslow, Ariz, Feb. 24, 34; m. 59; c. 4. ANTHROPOLOGY. B.A, California, Los Angeles, 60, M.S, 62, Ph.D.(anthrop), 65. Lectr. soc. & introductory anthrop. & Mesoamerica & asst. coordinator Latin Am. studies, Peace Corps, California, Los Angeles, 63-64; asst. prof. ANTHROP, Arizona State, 64-66; Ford Found. For. Area fel, 66-67; ASST. PROF, CALIFORNIA, SAN DIEGO, 67- Arizona State faculty res. grant, 65-66; guest lectr, Guadalajara, summer 66. Mem. cmt. Latin Am. studies, Arizona State, 65-66. U.S.A.R. Fel. Anthrop. Asn; Royal Anthrop. Inst. Gt. Brit. & Ireland. Social anthropology, especially traditional political systems; middle-America, especially the Maya. Publ: Analisis historico-sociologico de un antiguo titulo quiche, Antropologia e Historia de Guatemala, 67; Toltec influence on the post classic culture history of highland Guatemala, Middle Am. Res. Inst, (in press); Persistence of a descent-based political unit in a contemperaneous Quiche settlement highland Guatemala, Estudios de Cultura Maya, (in press). Address: Dept. of Anthropology, University of California, San Diego, La Jolla, Calif. 92037.

CARMAN, DR. HOY F, b. Wallowa, Ore, July 3, 38; m. 60; c. 2. AGRICULTURAL ECONOMICS. B.S, Oregon State, 60, M.S, 62; Ph.D.(agr. econ), Mich. State, 64. Agr. economist, econ. res. serv, U.S. Dept. Agr, 64-65; ASST. PROF. AGR. ECON, CALIFORNIA, DAVIS, 67- Qm.C, U.S.A, 65-67, Capt. Agr. Econ. Asn. Agricultural marketing and business management. Publ: An analysis of apple-packing costs in Mich, U.S. Dept. Agr, 67. Address: Dept. of Agricultural Economics, University of California, Davis, Calif. 95616.

CARMAN, DR. PHILIP M(cCLELLAN), Psychol, see 10th ed, Soc. & Behav. Vols.

CARMEAN, DR. STEPHEN L, b. Decatur, Ill, Feb. 17, 37; m. 58. PSYCHOLOGY. B.A, Illinois, Urbana, 60, M.A, 63, Ph.D, 64. ASST. PROF. PSYCHOL, WEST. WASH. STATE COL, 64- Psychol. Asn. Cognitive processes; attention; perception; discrimination learning. Address: Dept. of Psychology, Western Washington State College, Bellingham, Wash. 98225.

CARMEN, DR. IRA H(ARRIS), b. Brookline, Mass, Dec. 3, 34; m. 58; c. 2. POLITICAL SCIENCE. B.A, New Hampshire, 57; M.A, Michigan, 59, Ph.D. (polit. sci), 64. Asst. prof. POLIT. SCI, Ball State, 63-66; assoc. prof, Coe Col, 66-68; ASST. PROF, ILLINOIS, 68- Vis. scholar, Inter-Univ. Consortium Polit. Res, 65. The United States Supreme Court; American Constitutional law; judicial behavior. Publ: Movies, censorship and the law, Univ. Michigan, 66; One civil libertarian among many: the case of Mr. Justice Goldberg, Mich. Law Rev, 66. Address: Dept. of Political Science, University of Illinois, Urbana, Ill. 61801.

CARMENT, DR. DAVID WILLIAM, b. Winnipeg, Man, Oct. 28, 28; m. 51; c. 3. PSYCHOLOGY. B.A, Saskatchewan, 51; M.A, Toronto, 54, Ph.D, 59. Clin. psychologist, Can. Govt, 54-57; lectr. PSYCHOL, McMASTER, 57-59, asst. prof, 59-64, ASSOC. PROF, 64- Adv, Int. Labor Off, Govt. of India, 65-66. Psychonomic Soc; Can. Psychol. Asn. Persuasion and social influence; social learning and learning theory. Publ: Ascendant submissive behavior in pairs of human subjects; Human discrimination learning. Address: Dept. of Psychology, McMaster University, Hamilton, Ont, Can.

CARMICHAEL, DR. DONALD M(acNEVIN), b. Peterborough, Ont, Sept. 3, 02; m. 29; c. 5. PSYCHIATRY. M.D. & C.M, Queen's (Ont), 26. Gen. intern, Nassau Hosp, Mineola, N.Y, 26-27; psychiat. res, Kings Park State Hosp, 27-28, from intern to sr. asst. physician, 31-33; pediat. res, Memphis Gen. Hosp, Tenn, 28-29; Children's Mem. Hosp, Chicago, Ill, 29-30; private pediat. practice, Tex, 30-31; sr. asst. physician, child guid. psychiatrist, outpatient clin. psychiatrist, acting clin. dir. & 1st asst. physician, Pilgrim State Hosp, Brentwood, N.Y, 33-43; clin. dir, Harlem Valley State Hosp, Wingdale, 43-47; from clin. dir. to assoc. dir, Rockland State Hosp, Orangeburg, 47-54; dir. aftercare clins, Dept. Ment. Hyg, New York, 54-67; RETIRED. Milbank fel, 59; assoc. clin. prof, N.Y. Sch. Psychiat. Dipl, Am. Bd. Psychiat. & Neurol, 35; Ment. Hosp. Adminstr. Fel. AAAS; fel. Psychiat. Asn; fel. Group Psychother. Asn.(pres, 54-56). Address: 123 S. Middletown Rd, Pearl River, N.Y. 10965.

CARMICHAEL, PROF. FITZHUGH L(EE), b. Goodwater, Ala, Oct. 29, 93; m. 26; c. 1. STATISTICS. A.B, Alabama, 13; Chicago, 16; M.A, Princeton, 18; M.S, Denver, 25. Teacher, Greene Prep. Sch, 13-14; asst. prof. math, Alabama, 14-17; from assoc. prof. to prof. math. & statist. & mem. staff bur. bus. & soc. res, Denver, 25-35; res. analyst, div. res, Work Projs. Admin, Wash, D.C, 35-37; dir. bur. bus. & soc. res, Denver, 37-57, prof. STATIST. & chmn. dept, 37-62, EMER. PROF, 62-, univ. lectr, 58-59. Consult, Colo. Legis, 57-63, 68- U.S.A, 18-21. Statist. Asn.(v.pres, 46); Econ. Asn. Housing; relief and unemployment; public finance; population growth; socio-economic problems. Address: 1085 Lafayette St, Denver, Colo. 80218.

CARMICHAEL, PROF. WILLIAM DANIEL, b. Denver, Colo, Sept. 5, 29; m. 58. ECONOMICS, PUBLIC ADMINISTRATION. A.B, Yale, 50; M.A. & M.P.A, Princeton, 52, Ph.D, 59; B.Litt, Oxford, 55. Legis. asst, U.S. Bur. Budget, 55-56, fiscal economist, for. aid progs, 56-57; lectr. ECON, Princeton, 57-59, asst. prof, 59-62, undergrad. prog. adv, Woodrow Wilson Sch. Pub. & Int. Affairs, 58-62; PROF. & DEAN, GRAD. SCH. BUS. & PUB. ADMIN, CORNELL, 62- Consult, Ford Found. Latin Am. Prog, 63-; U.S. Civil Serv. Cmn, 67. Econ. Asn; Soc. Pub. Admin. Public finance and fiscal policy; administration and public policy aspects of higher education; educational development in Latin America. Publ: Contrib, What price economic growth? Address: Graduate School of Business & Public Administration, Cornell University, Ithaca, N.Y. 14850.

CARMIN, DEAN ROBERT L(EIGHTON), b. Muncie, Ind, Nov. 28, 18; m. 40; c. 2. GEOGRAPHY, CARTOGRAPHY. B.S, Ohio, 40; A.M, Nebraska, 42; Salisbury fel, Chicago, 46, 47, Ph.D.(geog), 53; Pan Am. World Airways traveling fel, Brazil, 48; U.S. Off. Ed. fel, 48-49. Instr. geog. & cartog, Mich. State Col, 42-44, asst. prof, 47-50; cartographer, Off. Strategic Serv, Wash, D.C, 44-45; asst. prof. geog. & cartog, Illinois, 51-54, assoc. prof, 54-61, prof, 61-62, dir. Center Latin Am. Studies, 59-62; head Latin Am. Studies Unit, U.S. Off. Ed, 62; PROF. GEOG. & DEAN COL. SCI. & HUMANITIES, BALL STATE, 62- Off. Qm. Gen. res. grant, Brazil, 56; Fulbright scholar, Argentina, 58; Am. Coun. Learned Socs. travel grant, 61. Cartog. consult, Cowles Cmn. Res. Econ, Univ. Chicago, 46, 47; Nat. Coun. Geog, Brazil, 48-49; geog. & cartog. consult, Spencer Press, Inc, Ill, 54-62; consult, lang. develop, br, U.S. Off. Ed, 61, 63, 64, 65; Nat. Sci. Found, 64, 65, 66; consult. & lectr, Peace Corps, 64, 66; consult, Partners of Alliance Prog, Agency Int. Develop, 65; int. affairs cmt, Asn. State Cols. & Univs, 66. Mem. cmt. geog, Nat. Acad. Sci-Nat. Res. Coun, 61- U.S. del. gen. assembly, Pan Am. Inst. Geog. & Hist, Argentina, 61. U.S.A, 44-45. AAAS; Asn. Am. Geog; Latin Am. Studies Asn.(v.pres, 60-61, pres, 61), Nat. Coun. Geog. Ed; Brazilian Geog. Soc. Frontier settlement in Latin America. Publ: Anapolis, Brazil, regional capital of an agricultural frontier. Address: College of Sciences & Humanities, Ball State University, Muncie, Ind. 47306.

CARMODY, ROBERT F, b. Boston, Mass, Mar. 27, 37; m. 63; c. 3. POLITICAL SCIENCE, LAW. B.A, Stanford, 58, M.A, 59, LL.B, 62; American Univ, 67-68. Summer consult. pub. admin, Griffenhagen-Kroeger, Pub. Mgt. Consult, 62; staff asst, Off. Secy. Defense, 62-65; consult. mgt. systs. res, Stanford Res. Inst, 65-66; asst. dir, off. planning & prog. rev, Peace Corps, 66-67; DIR. GOVT. PROGS, CITY UNIV. NEW YORK, 67- Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. Federal assistance to higher education; development of program budgeting in the federal government; urban affairs. Publ: A positive approach to the support of higher education, Nat. Ed. Asn, 68. Address: City University of New York, 1730 Rhode Island Ave. N.W, Washington, D.C. 20036.

CARMONY, PROF. DONALD F(RANCIS), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CARNAHAN, PROF. JAMES EDWIN, b. Miami, Tex, Dec. 18, 23; m. 48; c. 4. PUBLIC ADMINISTRATION. A.B, Adams State Col, 56, M.Ed, 57; Ph.D. (teacher ed, traffic admin), Mich. State, 60. Rancher, 49-54; patrolman, Colo. State Patrol, 54-61; assoc. prof. ed. & police, Calif. State Col. Los Angeles, 61-66; PROF. POLICE & PUB. ADMIN. & RES. SPECIALIST, ARIZONA, 66- Res. asst, hwy. traffic safety center, Mich. State, 58-60,

Inter Indust. grant, 67-68. Consult, President's Crime Cmn, 66. Mem. traffic ed. & training cmt, traffic conf, Nat. Safety Coun, 67- U.S.N, 44-45. Acad. Polit. & Soc. Sci; Int. Asn. Chiefs Police. State and county police systems; legislative barriers to police operation; use of civilians in police work; higher education and administration of criminal justice; higher education and traffic administration. Publ: Factors that contribute to non-conviction of responsible drivers, Excerpta Criminologica; Safety education in San Luis Valley public schools, Colo. Sch. J, 4/59; Needed: revision in Arizona traffic law, Ariz. Rev, 3/67. Address: Dept. of Public Administration, University of Arizona, Tucson, Ariz. 85721.

CARNATHAN, DR. JAMES GILBERT, b. Weymouth, Mass, May 14, 37; m. 63; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Bowdoin Col, 59; M.Sc, Brown, 61, Ph.D.(exp. psychol), 65. Instr. PSYCHOL, Bowdoin Col, 65-66; ASST. PROF, WHEATON COL,(MASS), 66- Nat. Sci. Found. faculty res. grant, 67-68. U.S.A, 63-65, 1st Lt. Psychol. Asn. Study of children's learning using operant techniques; investigation of new techniques and equipments to improve classroom instruction. Publ: Co-auth, Differential reinforcement of short-latency responses in the white rat, J. Comp. & Physiol. Psychol, 56: 120-123 & The effect of competitive allocation of reinforcement to rats in the straight alley, J. Gen. Psychol, 71: 137-144. Address: Dept. of Psychology, Wheaton College, Norton, Mass. 02766.

CARNEIRO, DR. ROBERT L(EONARD), b. New York, N.Y, June 4, 27; m. 52. ANTHROPOLOGY. B.A, Michigan, 49, M.A, 52, Ph.D.(anthrop), 57. Field work, Kuikuru Indians, Cent. Brazil, 53-54; instr. anthrop, Wisconsin, 56-57; asst. curator S.AM. ETHNOL, AM. MUS. NATURAL HIST, 57-63, ASSOC. CURATOR, 63- Field work, Amahuaca Indians, East. Peru, 60-61. AAAS; Anthrop. Asn; Ethnol. Soc; Soc. Archaeol. Cultural evolution; political organization; shifting cultivation; Indian cultures of the tropical forest of South America. Publ: Scale analysis as an instrument for the study of cultural evolution; ed, Essays in the science of culture in honor of Leslie A. White; The evolution of society; selections from Herbert Spencer's principles of sociology, Univ. Chicago, 67. Address: Dept. of Anthropology, American Museum of Natural History, 79th & Central Park W, New York, N.Y. 10024.

CARNEY, PROF. JAMES J(OSEPH), JR, Econ, Finance, see 10th ed, Soc. & Behav. Vols.

CARNEY, PROF. ROBERT W(ILLIAM), b. Sidman, Pa, Oct. 3, 23; m. 47; c. 2. MANAGEMENT SCIENCE, HUMAN RELATIONS. B.S, Kent State, 49; M.S, Cornell, 51, Ph.D.(indust. rels), 56. Asst. prof. mgt. & indust. rels, Louisville, 52-55; asst. prof. econ. & dir. indust. rels. center, Kalamazoo Col, 55-57; assoc. prof. & adminstr, Sea Island Adv. Mgt. Prog, Emory, 57-60; assoc. prof. INDUST. MGT, GA. INST. TECH, 60-66, PROF, 66-, ACAD. ADMINSTR. DYNAMIC MGT. PROG, 65- Lectr. & consult. Dir, Southeast. Regional Credit Union Sch, 67- U.S.A.A.F, 43-46. Indust. Rels. Res. Asn; Soc. Personnel Admin. Industrial relations; management; organizing; planning; controlling; labor arbitration; motivation; credit unions. Address: School of Industrial Management, Georgia Institute of Technology, Atlanta, Ga. 30329.

CARO, DR. FRANCIS GEORGE, b. Sept. 28, 36; m. 65; c. 2. SOCIOLOGY. B.S, Marquette, 58; Ph.D.(sociol), Minnesota, 62. Acting resident dir. ment. health res, soc. sci. res. prog, Tri-County Ment. Health Center, Minn, 62; res. assoc. sociol. of ed, Community Studies, Inc, Mo, 62-64; evaluative res. on anti-poverty, Community Progress, Inc, Conn, 64-65; asst. prof. sociol, Marquette, 65-67; ASST. DIR. EVAL. RES, INST. BEHAV. SCI, COLORADO, 67- Summer, manpower analyst, Neighborhood Youth Corps, U.S. Dept. Labor, 66. Sociol. Asn; Soc. Study Social Probs. Evaluation of community social action programs; transition from adolescence to adulthood. Publ: Paths toward adulthood, Community Studies, Inc, 65; Deferred gratification, time conflict, and college attendance, Sociol. Ed, 65; Attitudes of youth relevant for the realization of adult goals, Soc. Forces, 65. Address: Institute of Behavioral Science, University of Colorado, Boulder, Colo. 80302.

CARO, DR. PAUL W, JR, b. Pensacola, Fla, Sept. 30, 31; m. 55; c. 1. PSYCHOLOGY. B.A, Fla. State, 55, M.A, 56; Ph.D.(psychol), Tennessee, 61. Res. assoc, HumRRO Aviation Div, George Washington, 58-60; asst. psychol, Tennessee, 60-61; training psychologist, Mead Corp, 61-63, res. scientist, HUMRRO AVIATION DIV, GEORGE WASHINGTON, 63-65, SR. SCIENTIST, 65- Sr. assoc, Appl. Psychol. Assocs, Inc, 65- U.S.A.F, 51-54. Psychol. Asn; Helicopter Soc. Human learning; training methodology; aviation training; training device development and utilization; development of human performance criteria; measurement of human performance in complex situations. Publ: Co-auth, Human factors research in support of Army aviation, HumRRO Prfnl. Paper, 67, auth, Flight evaluation procedures and quality control of training, HumRRO, 68 & The captive helicopter as a training device: experimental evaluation of a concept, HumRRO Tech. Report, 68, George Washington. Address: HumRRO Aviation Division, P.O. Box 428, Ft. Rucker, Ala. 36361.

CAROL, BERNARD, Biostatist, see 11th ed, Phys. & Biol. Vols.

CAROL, PROF. HANS (HEINRICH), b. Baden, Switz, Oct. 22, 15; m. 42; c. 3. GEOGRAPHY. M.A, Zurich, 42, Ph.D, 45. Asst. prof. GEOG, Zurich, 46-58; vis. prof, Clark, 58-60; assoc. prof, Cincinnati, 60-62; PROF, YORK (ONT), 67-, Chmn. Dept, 62-67. Asn. Am. Geog; Can. Asn. Geog. Theory of geography; geography of Africa; regional development. Publ: Geography of the future, Prfnl. Geogr; Hierarchy of central functions within the city, Ann. Asn. Am. Geog; Staedte, wie wir sie wuenschen, Regio Verlag. Address: Dept. of Geography, York University, Toronto, 12, Ont, Can.

CARON, DR. ALBERT J(ASON), b. Boston, Mass, June 26, 26; m. 49; c. 3. PSYCHOLOGY. Ph.D.(psychol), Chicago, 54. Nat. Inst. Ment. Health fel. psychol, Harvard, 54-56, res. assoc, 56-59; RES. SCIENTIST, NAT. INST. MENT. HEALTH, 59- Lectr, Boston, 54-56. U.S.N, 44-46. AAAS; Soc. Res. Child Develop; Psychol. Asn. Cognitive development; thinking and learning; verbal behavior. Publ: Far transposition of intermediate size in preverbal children, 66, Intermediate size transposition at an extreme distance in preverbal children, 67 & Conceptual transfer in preverbal children as a consequence of dimensional training, 68, J. Exp. Child Psychol. Address: Bldg. 10, Room 2N-306, National Institute of Mental Health, Bethesda, Md. 20014.

CARON, DR. HERBERT S(IDNEY), b. New York, N.Y, Dec. 21, 23; m. 46; c. 4. PSYCHOLOGY. B.S, City Col. New York, 43; fel, Harvard, 47-50, M.A, 50, Ph.D.(soc. psychol), 53. Res. & clin. psychologist, State Dept. Ment. Health, Mass, 52-53; res. soc. psychologist, heart disease control prog, U.S. Pub. Health Serv, 54-59; RES. PSYCHOLOGIST, CLEVELAND VET. ADMIN. HOSP, 59- Asst. clin. prof, Case Western Reserve, 59- U.S.A, 43-46. Psychol. Asn. Prejudice and mass reactions to violence; social and psychological factors in health, mental health, disability, and medical care. Publ: Co-auth, Data processing by optical coincidence, Science & Patients' beliefs about peptic ulcer and its treatment, Ann. Internal Med; auth, Patients' cooperation with a medical regimen: identifying the non-cooperator, J. Am. Med. Asn, 3/68. Address: Veterans Administration Hospital, 10701 East Blvd, Cleveland, Ohio 44106.

CAROOM, DEAN HIRAM C(YRUS), b. Little Rock, Ark, Sept. 23, 16; m. 45; c. 4. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Redlands, 48; M.B.A, Southern California, 51; fel. & D.B.A, Harvard, 60. Mem. bd. dirs, Home Tract Water Co, Calif, 48-50; teacher-coordinator, pub. sch, 50; prof. air sci. & chmn. dept, Yale, 56-57, assoc. prof. econ. & acad. div. counsr, U.S. Air Force Acad, 60-63, faculty exec, 63-64, assoc. prof. econ, 64-65; chmn. dept. mgt. res, Air Force Inst. Tech, 65-67; assoc. dir. govt. indust. law center, Tennessee, 67; DEAN UNIV. COLS, BALTIMORE, 67- Mem. bd. dirs, Appl. Sci. Capital Corp, 61- U.S.A.A.F, 41-46, 50-67, Lt. Col. Acad. Mgt. Business policy; management responsibilities. Publ: Management responsibilities and national defense interests. Address: 216 Purlington Rd, Timonium, Md. 21093.

CAROTHERS, DR. J(OHN) EDWIN, b. West Union, W.Va, Mar. 26, 16; m. 44; c. 2. FOREST & AGRICULTURAL ECONOMICS. B.S, Michigan, 37, M.F, 41; Cornell, 42-43; Yale, 43-44; M.S, Iowa State, 52; Ph.D.(forest econ), Mich. State, 64. Sub-foreman woodtreating, Creosoting Div, Long-Bell Lumber Co, La, 37; jr. forester & farm planner, U.S. Soil Conserv. Serv, 38-41; chmn. surv. & properties inventory, civil eng. dept, Ark. Fuel Oil Co, 42; forester, Alpine Forest Reserve, Tenn, 45-50; dir. Christian ed. prog, Congregational Student Center, Iowa, 51-54; asst. prof. FOREST ECON, Auburn, 54-56; Ark. Agr. & Mech. Col, 56-61, assoc. prof, 61-65, prof, 65-66; ASSOC. PROF, LA. POLYTECH, 66- Soc. Am. Foresters; Agr. Econ. Asn; Am. Forestry Asn. Marketing of forest products. Publ: Workmen's compensation insurance as related to forest workers and primary wood-using mills, J. Forestry, 3/64. Address: Dept. of Forestry, Louisiana Polytechnic Institute, Box 507, Technical Station, Ruston, La. 71270.

CAROVANO, DR. J(OHN) MARTIN, b. Tacoma, Wash, May 9, 35; m. 58; c. 2. ECONOMICS. B.A, Pomona Col, 57; M.A, California, Berkeley, 61, Ph.D. (econ), 65. Instr. ECON, HAMILTON COL, 63-65, ASST. PROF, 65- U.S.A, 57-58, Res, 58-63. Econ. Asn. Public finance; economics of education. Publ: Senator Humphrey's tax credit bill: a comment, J. Higher Ed, 5/64; Financing public higher education, 1969-1970, Nat. Tax J, 6/66. Address: Dept. of Economics, Hamilton College, Clinton, N.Y. 13323.

CARP, DR. FRANCES M(ERCHANT), b. San Diego, Calif, May 28, 18; m. 42; c. 2. PSYCHOLOGY. Buckle fel, 47-48; U.S. Pub. Health Serv. fel, 48-49; Ph.D.(psychol), Stanford, 50. Asst. prof, Mich. State Col, 50-52; tech. aid. to dir. res, human resources res. center, Randolph Air Force Base, 52-53; practicing psychologist, 53-54; from assoc. prof. to prof. psychol. & chmn. dept, Trinity (Tex), 54-65; health scientist & adminstr, Nat. Insts. Health, 65-67; PROG. DIR. HUMAN DEVELOP. RES, AM. INSTS. RES, 67- Consult, Vet. Admin, 50-52; Hogg Found, 55-; prin. investr, U.S. Dept. Air Force, 55-57; soc. security admin, Dept. Health, Ed. & Welfare, 62-63. Psychol. Asn; Gerontol. Asn. Personality and motivation; aging. Publ: A future for the aged, Univ. Texas, 66. Address: 206 Coronado Ave, Los Altos, Calif. 94022.

CARPENTER, PROF. CECIL C(LAYTON), b. Harrodsburg, Ky, Feb. 10, 04. ECONOMICS. B.S, Kentucky, 26; M.S, Illinois, 27, fel, 31-32, Ph.D, 32. Asst, Illinois, 26-29; prof. econ, Marshall Col, 29-36; from assoc. prof. to PROF. ECON, KENTUCKY, 36-, dean col. commerce, 36-64. Dist. price exec, Off. Price Admin, 43-45. Money and banking; English monetary theory, 1797-1821; state bank failures in Kentucky. Address: College of Commerce, University of Kentucky, Lexington, Ky. 40506.

CARPENTER, C(HARLES) HAROLD, b. Maiden, N.C, July 27, 24. HISTORY. Lenoir-Rhyne Col, 45; M.A, George Peabody Col, 46; Chicago, 48-49; North Carolina, 49-50, summer, 56. Instr. hist. & govt, Clemson, 46-50, asst. prof, 50-62; vis. prof, Newberry Col, 65-67; summer vis. prof, Lander Col, 65. AAAS; Asn. Am. Geog; fel. Nat. Coun. Geog. Ed; Hist. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Orgn. Am. Hist; N.Y. Acad. Sci. Geopolitics. Publ: History is the everlasting tide; a tide of record and analysis. Address: 48 E. Main St, Maiden, N.C. 28650.

CARPENTER, PROF. C(LARENCE) RAY, b. Lincoln Co, N.C, Nov. 28, 05; m. 32; c. 2. BEHAVIORAL PSYCHOLOGY, PRIMATOLOGY. B.A, Duke, 28, M.A, 29; Ph.D.(physiol, psychol), Stanford, 32. Nat. Res. Coun. fel. psychol, Yale, 31-33, asst. comp. psychobiol, 31-34; asst. prof. psychol, Bard Col, Columbia, 34-38, physiol. psychol, Col. Physicians & Surgeons, 38-40; assoc. prof. psychol, PA. STATE, 40-48, prof, 48-65, dir. instructional film res. prog, 48-57, head dept. psychol, 52-58, dir. instructional TV res. prog, 54-63, course develop, prog. instr. res, 60-63, div. instructional serv, 61-63, exec. dir. surv. cmt. & asst. to pres, Milton S. Hershey Med. Center, 63-64, RES. PROF. PSYCHOL. & ANTHROP, 65- Res. assoc, Columbia Sch. Trop. Med, Puerto Rico, 38-41; Carnegie Corp. fel, 50; Ford Found. distinguished vis. prof. behav. sci, North Carolina, Chapel Hill, 64-65; field reader, U.S. Off. Ed, 64- Consult, cmt. on primatology, Nat. Acad. Sci- Nat. Res. Coun, 58-64; adv. consult, Fund. Adv. Ed, Ford Found, 60-62. Adv. & mem. planning cmt, U.S-Japan Coop Sci. Prog, 64-65 & vis. scientists cmt, 66; mem. bd. sci. adv, Yerkes Regional Primate Res. Center, 66-; mem, Joint Cmt. Ed. Telecommun, 66- U.S. del, Pac. Sci. Cong, Nat. Acad. Sci, 66. U.S.A.A.F, 43-46, Res, 46-62, Lt. Col. Fel. Animal

Behav. Soc; Psychol. Asn; Anthrop. Asn; Soc. Zool; Psychonomic Soc; Ecol. Soc. Am; Asn. Higher Ed.(v.pres, 64-65, pres, 65-66); Int. Primatol. Soc.(secy, west. hemisphere, 64-); N.Y. Acad. Sci. General, social and comparative psychology; primatology, particularly naturalistic studies; educational technology, instructional media, including motion pictures and instructional television; educational planning and development. Publ: Naturalistic behavior of nonhuman primates, Pa. State Univ, 64; Territoriality: review of concepts and problems, In: Behavior and evolution, Yale, 58; Soziologie und Verhalten freilebender nichtmenschlicher Primaten, das Verhalten der Primaten, Handbuch der Zoologie, 58. Address: Dept. of Psychology, Pennsylvania State University, 214 Burrowes Bldg, University Park, Pa. 16802.

CARPENTER, DR. CLAYTON LEE, b. Shelton, Nebr, Jan. 31, 20; m. 45; c. 2. PSYCHOLOGY. B.S, Nebr. State Col, Kearney, 41; M.E, Nebraska, 53, Ed.D.(ed. psychol), 57. Part-time instr. ed. psychol, Nebraska, 55-56; PROF. PSYCHOL, EAST TENN. STATE, 56-, CHMN. DEPT, 63- Dir, Psychol. Serv, 57- Consult, State of Tenn, 57-; Kingsport, Tenn. Ment. Health Center, 58-62; Cerebral Palsy Center & Sch, 62-67; Va. Child Eval. Clin, Bristol, 64- U.S.N, 41-46, Res, 61-, Lt. Psychol. Asn; Voc. Guid. Asn. Intelligence and personality structure; response patterns of the brain damaged individual with those of schizophrenic reactions. Address: Dept. of Psychology, East Tennessee State University, Johnson City, Tenn. 37601.

CARPENTER, PROF. DAVID B(AILEY), b. Webster Groves, Mo, June 4, 15; m. 46; c. 4. SOCIOLOGY. B.A, Washington (St. Louis), 37, M.A, 38; Soc. Sci. Res. Coun. fel, 40-41; M.A, Columbia, 44; Ph.D.(sociol), Washington (Seattle), 51. Asst. prof. SOCIOL, WASHINGTON (ST. LOUIS), 49-53, assoc. prof, 53-62, PROF, 62-, dean grad. sch. arts & sci, 65-67. Vis. assoc. prof, Hawaii, 55-56. Mem, Grad. Record Exam. Bd, 66-; chief grad. acad. progs. br, Bur. Higher Ed, Wash, D.C, 67-68. U.S.N.R, 42-46, Lt. AAAS; Sociol. Asn; Pop. Asn. Population; urban sociology; graduate education; social stratification. Publ: Co-auth, The American city, McGraw, 53; auth, Urbanization and social change in Japan, Sociol. Quart, 60; Urbanization in the United States and Japan, Studies in Comp. Develop, 66. Address: 715 W. Oak Dr, Glendale, Mo. 63122.

CARPENTER, DR. DWIGHT M(ARCUS), b. Wichita, Kans, Apr. 29, 32; m. 63; c. 1. POLITICAL SCIENCE. B.A, Wichita, 54, M.A, 57; Ph.D.(polit. sci), Illinois, 63. Instr. hist. & govt, Bethel Col.(Kans), 60-61; asst. prof. POLIT. SCI, Okla. State, 63-65; ASST. PROF. & ASST. DEAN GRAD. COL, ARIZONA STATE, 65- Polit. Sci. Asn; Am. Soc. Pub. Admin. Metropolitan government; urban politics; state and local government; public administration and finance. Publ: Co-auth, Governmental services, Wichita-Sedgwick County Metrop. Area Planning Dept, 58, Arizona's tax structure and its administration. Ariz. Acad, 67 & Urban politics of the Southwest, Ariz. State Univ, 67. Address: Dept. of Political Science, Arizona State University, Tempe, Ariz. 85281.

CARPENTER, DR. FINLEY, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

CARPENTER, DR. GENEVIEVE C(ASTRODALE), b. Dallas, Tex, Nov. 7, 31; m. 56. PSYCHOLOGY. B.S, Pa. State, 53; Joint Rotary & Bus. & Prfnl. Women's Club scholar, London, 53-54, M.A, 54, Brit. Med. Res. Coun. scholar, 58-59, Ph.D.(psychol), 59. Asst. lectr. clin. psychol, London, 54-57, asst. exp. psychol, 59; asst. prog. dir. psychobiol, Nat. Sci. Found, 60-61; sr. psychologist, Royal Free & Mem. Hosps, Eng, 62-63; exec. secy, psychol. fels. rev. panel, Nat. Insts. Health, 63-65; ASST. PROF. PSYCHOL, BOSTON UNIV. MED. CENTER, 65- AAAS; Am. Psychol. Asn; Brit. Psychol. Soc. Human learning; motivation; early perceptual development. Publ: Co-auth, The effect of antibuse on intellectual functioning, Diseases Nervous Syst, 10/65; co-auth, Selective attention to mother's face from week 1 through week 8, Proc. Annual Convention Am. Psychol. Asn, 67; co-auth, A viewpoint on early affective development, In: Exceptional Infant, Vol. 1, Spec. Child, 67. Address: Division of Psychiatry, Boston University Medical Center, 82 E. Concord St, Boston, Mass. 02118.

CARPENTER, JAMES L(INWOOD), JR, Indust. Eng, see 11th ed, Phys. & Biol. Vols.

CARPENTER, PROF. JESSE T(HOMAS), b. Durham, N.C, Dec. 11, 99; m. 51; c. 2. LABOR RELATIONS. A.B, Trinity Col.(N.C), 20; A.M, Iowa, 25, Columbia, 44; Ph.D, Harvard, 30. Prin, high sch, N.C, 20-22; instr. econ. & polit. sci, Trinity Col.(N.C), 23-24, 25-26; asst. Am. govt, Iowa, 24-25; instr. polit. sci, N.Y. Univ, 27-30, asst. prof, 30-40, assoc. prof, 40-42; INDUST. & LABOR RELS, N.Y. STATE SCH. INDUST. & LABOR RELS, CORNELL, 47-67, EMER. PROF, 67- Labor economist, U.S. Bur. Labor Statist, Wash, D.C, 46-47. Fulbright award, res. on compulsory labor arbit, Australia, 54-55. Civilian personnel res. analyst, U.S.A, 43; U.S.N.R, 43-45, Lt. Comdr. Indust. Rels. Res. Asn. Collective bargaining and labor arbitration; employers' associations and collective bargaining in New York City; the South as a conscious minority. Address: 111 Village Court, Charlottesville, Va. 22903.

CARPENTER, DR. JOHN ANTHONY, b. Nice, France, May 2, 24; U.S. citizen; c. 1. PSYCHOLOGY. B.A, Hopkins, 50, M.A, 51; Ph.D.(psychol), Brown, 54. Asst. prof. PSYCHOL, Yale, 54-62; ASSOC. PROF, RUTGERS, 62- Spec. fel. statist, Yale, 64-65. U.S.A.A.F, 43-45, S/Sgt. AAAS; Psychol. Asn; Biomet. Soc. Publ: Co-auth, Alcohol and higher-order problem solving, 6/61, auth, Effects of alcohol on some psychological processes—a critical review with special reference to automobile driving skill, 9/62 & Psychological contributions to the study of drinking, (in press), Quart. J. Studies Alcohol. Address: Center of Alcoholic Studies, Rutgers, The State University, New Brunswick, N.J. 08903.

CARPENTER, DR. LEWIS G, JR, b. Colorado Springs, Colo, Dec. 12, 16; m. 42; c. 2. CLINICAL PSYCHOLOGY. A.B, Stanford, 39, M.A, 43; Ph.D, California, 50. Voc. adv. & personal counsr, Vet. Admin, 46, clin. psychologist, 46-50; res. assoc, sch. med, California, 50-53; SR. CLIN. PSYCHOLOGIST, NAPA STATE HOSP, 53- U.S.A, 41; U.S.A.A.F, 42-45. Psychol. Asn. Effects and correlates of electroshock therapy; psychosomatic medicine; social variables as related to recovery from mental illness. Publ: An experimental test of an hypothesis for predicting outcome with electroshock therapy, J. Psychol; Scale for the measurement of personality in patients with essential hypertension & Certain personality characteristics of potential hypertensions, Am. Psychologist. Address: Napa State Hospital, Imola, Calif. 94558.

CARPENTER, DR. NILES, b. Evanston, Ill, Mar. 25, 91. SOCIOLOGY. A.B, Northwestern, 14, fel, 14-15, A.M, 15; Payne fel, Harvard, 16-17, 17-18; Ph.D, 20; Episcopal Theol. Sch, 19. Sheldon traveling fel, Harvard, 20, instr. econ. & soc. ethics, 20-24, vis. prof, 34-35; prof. sociol. & chmn. dept, Buffalo, 24-36, dir. sch. soc. work, 35-36, dean, 36-59; consult, gen. div. res, Protestant Episcopal Church, 59-67; RETIRED. Expert spec. agent, U.S. Bur. Census, 23; consult, Urban Training Center Chicago & Canterbury House, Ill, 66-67. Chmn. cmt. income & the home, President's Conf. Home Bldg. & Home Ownership, 37. U.S.A, 17-19, Lt. Sociology of city life, religion and welfare. Publ: Immigrants and their children; Programs of care for older people in England. Address: 909 Foster Ave, Chicago, Ill. 60640.

CARPENTER, DR. PATRICIA HUMPHREY, b. Detroit, Mich, May 16, 20; m. 58. CLINICAL PSYCHOLOGY. A.B, Oberlin Col, 41; B.S. in L.S, Western Reserve, 43; M.A, Wayne State, 58, Ph.D.(psychol), 61. Res. assoc. psychol, dept. ed, Wayne State, 57-58; intern clin. psychol, Lafayette Clin, Detroit, 58-59; psychologist, CLIN. CHILD STUDY, WAYNE COUNTY JUVENILE COURT, 59-63, CHIEF PSYCHOLOGIST, 63- Consult, Livingston County Ment. Health Clin, 66-67. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 66. Motivation, especially guilt; delinquency. Address: 3875 W. Coon Lake Rd, Howell, Mich. 48843.

CARPENTER, DR. WALTER H. JR, b. Syracuse, N.Y, July 8, 19; m. 54; c. 2. BUSINESS POLICY, LABOR RELATIONS. B.A, Colgate, 41; I.A, Harvard, 43, M.B.A, 46, D.B.A,(labor rels), 61. Personnel mgr, Manchester group, Textron Inc, 46-47; faculty mem, BABSON INST, 47-51, dir. bd. bus. res, 51-63, chmn. div. mgt. & prod, 61-63, PROF. MGT, 61-, DEAN FACULTY, 63- Consult, Off. European Econ. Coop, 53; For. Opers. Admin, 53-54. Lt, U.S.N.R, 43-46. Indust. Rels. Res. Asn. Entrepreneurship; collective bargaining; business policy; collegiate education for business management. Publ: Case problems in collective bargaining, 49 & co-auth, Small business pattern bargaining, 61, Babson; auth, Case studies in collective bargaining, Prentice-Hall, 53. Address: Dept. of Management, Babson Institute of Business Administration, Babson Park, Mass. 02157.

CARPER, PROF. N(OEL) GORDON, Hist, U.S. Polit. Theory, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CARR, DR. ARTHUR C(HARLES), b. Buffalo, N.Y, Nov. 27, 18. CLINICAL PSYCHOLOGY. B.S, N.Y. State Teachers Col, Buffalo, 41; M.A, Columbia, 46; Ph.D.(clin. psychol), Chicago, 52. Clin. psychologist, Creedmoor State Hosp, Queens Village, N.Y, 52-56; ASSOC. CLIN. PSYCHOLOGIST, PSYCHIAT. INST, 56-; ASSOC. PROF. MED. PSYCHOL, COL. PHYSICIANS & SURGEONS.COLUMBIA, 56- Asst. clin. prof, Adelphi Col, 52-56; lectr, Queens Col.(N.Y), 56; lectr, Hunter Col, 64-65. Consult, Walson Army Hosp, Ft. Dix, N.J, 61. U.S.A, 41-46, Maj. Psychol. Asn; Soc. Proj. Tech; Acad. Psychother; Psychosom. Soc. Projective techniques; psychoanalytic theory; psychopathology. Publ: Co-auth, Prediction of overt behavior through the use of projective techniques, C.C. Thomas, 60; co-auth, Introduction to psychopathology, Macmillan, 64; co-auth, Psychoanalysis and social research, Doubleday, 65. Address: Psychiatric Institute, 722 W. 168th St, New York, N.Y. 10032.

CARR, DR. D(AVID) W(ILLIAM), b. Sask, Dec. 9, 11; m. 39; c. 4. ECONOMICS. B.A. & B.S.A, Saskatchewan, 48; M.Sc, Wisconsin, 49; Ph.D.(econ), Harvard, 53. Lectr. econ, Macdonald Col, McGill, 51-53; econ. adv, Royal Cmn. Agr, Newf, 53-55; chief econ. res, Dept. Fisheries, Can, 55-58; HEAD, D.W.M. CARR & ASSOCS, 58- Publisher, Ottawa Report on Agr, 59- Consult, Resources for Tomorrow Conf, 60; Royal Cmn. Transportation, 60-61; Royal Cmn. Banking & Finance, 62-63; Int. Joint Cmn, 64-65; Atlantic Develop. Bd, 66-68; Resource Ministers Coun, 66-67; Govt. Can. & Yukon Territory, 67-; Embassy of U.S, 67- R.C.A.F, 40-45, Flying Officer. Econ. Asn; Agr. Econ. Asn; Can. Polit. Sci. Asn; Can. Agr. Econ. Soc. Economic policy; resource development; federal-provincial relations; transportation; agricultural policy; tariffs; agricultural policy analysis. Publ: Policy for industrial technology in Canada, Air Industs. Asn. Can, 11/64; Potential economic benefits of alternative improvements, International Champlain Waterway, Champlain Waterway Cmt, Dept. Transport, Ottawa, 12/64; Maritime agriculture, a comparative regional analysis, Atlantic Develop. Bd, Ottawa, 1/68. Address: 56 Sparks St, Ottawa 4, Ont, Can.

CARR, PROF. EDWIN R(EMMEN), b. Jamestown, N.Dak, June 11, 06; m. 32. ECONOMICS. A.B, Jamestown Col, 27; A.M, Columbia, 32; Ph.D, Minnesota, 46. Assoc. prof. ED. & ECON, Colorado, 46-53, PROF, 53-60; CALIF. STATE COL. FULLERTON, 60- Pres. Nat. Coun. Soc. Studies, 55. U.S.A.A.F, 42-46, Maj. Econ. Asn. General economics; social studies education. Publ: Guide to reading for social studies teachers, Nat. Coun. Soc. Studies, 51; co-auth, Education and the social order, 57 & auth, The social studies, 65, Rinehart. Address: Dept. of Education & Economics, California State College at Fullerton, Fullerton, Calif. 92631.

CARR, DR. HERMAN E, JR, Med, Endocrinol, see 11th ed, Phys. & Biol. Vols.

CARR, PROF. HOBART C, b. Hawkeye, Iowa, Jan. 27, 12; m; c. 2. FINANCE, ECONOMICS. B.A, Iowa, 37, M.A, 38; Ph.D, Illinois, 41. Instr, Wayne State, 41-42; economist & chief res. div, Fed. Reserve Bank of New York, 42-56; consult, Fed. Home Loan Bank Bd, 61-63; dir, Fed. Home Loan Bank of New York, 63-65; PROF. & CHMN. BANKING & FINANCE DEPT, SCH. COMMERCE, N.Y. UNIV, 65- Econ. Asn; Finance Asn. The role of correspondent banking in determining bank industry structure; improvement of secondary market for mortgages: problems in executing monetary policy goals. Publ: Why and how to read the Federal Reserve statement, 12/59 & A note of regional differences in discount rates, 3/60, J. Finance; Pricing

correspondent banking service, Bankers Mag, summer 67. Address: Dept. of Banking & Finance, School of Commerce, New York University, New York, N.Y. 10003.

CARR, DR. JOHN E(DWARD), b. Carthage, Ind, Feb. 6, 34; m. 59; c. 2. CLINICAL PSYCHOLOGY. A.B, Earlham Col, 56; M.A, Syracuse, 58, U.S. Pub. Health Serv. fel, 58-59, Ph.D.(clin. psychol), 63. Instr. PSYCHIAT, WASHINGTON (SEATTLE), 63-66, ASST. PROF, 66- Consult, King County & Univ. Hosps, Seattle, 63-; VISTA res. & eval, Off. Econ. Opportunity, 66; Vet. Admin. Hosp, American Lake, Wash, 66- U.S.C.G, 52-53. AAAS; Psychol. Asn; Soc. Psychophysiol. Res; Asn. Adv. Behav. Ther. Cognitive factors in psychopathology and psychotherapy; psychotherapy and behavior modification outcome; organic dysfunction. Publ: Co-auth, Sourcebook in abnormal psychology, Houghton, 67; Characteristics of symptom-watched psychogenic and real pain patients on the MMPI, 65 & Perception of improvement and interjudge reliability in therapy-outcome studies, 66, Proc. Am. Psychol. Asn. Address: Dept. of Psychiatry, University of Washington Medical School, Seattle, Wash. 98105.

CARR, PRES. ROBERT K(ENNETH), b. Cleveland, Ohio, 08; m. 33; c. 3. POLITICAL SCIENCE. A.B, Dartmouth Col, 29; A.M, Harvard, 30, Ph.D, 35; hon. LL.D, Dartmouth Col, Ohio Wesleyan & Concord Col, 60, Pittsburgh, 62, Ripon Col, 67. Instr. govt, Oklahoma, 31-35, asst. prof, 35-37, dir. bur. munic. res, 31-37; from instr. to prof. polit. sci, Dartmouth Col, 37-47, Joel Parker prof. law & polit. sci, 48-59, chmn. dept. govt, 44-48, dir. great issues course, 55-57; PRES, OBERLIN COL, 60- Rockefeller Found. grants, 45-47, 49-51; Guggenheim fel, 55; summer prof, Columbia, 54. Consult, U.S. Civil Rights Cmt, 59. Trustee, Carnegie Found. for Adv. Teaching, 62- Exec. secy, President's Cmt. Civil Rights, 47; gen. secy, Am. Asn. Univ. Prof, 57-58; mem, U.S. Adv. Cmt. Higher Ed, 67- Polit. Sci. Asn; fel. Am. Acad. Arts & Sci. Public law; civil liberty. Publ: The Supreme Court and judicial review; Federal protection of civil rights; House committee on Un-American activities. Address: Oberlin College, Oberlin, Ohio 44074.

CARR, DR. W(ILLIAM) J(OHN), b. Philadelphia, Pa, Dec. 23, 24; m. 47; c. 2. PSYCHOLOGY. A.B, Franklin & Marshall Col, 49; M.A, Hopkins, 52; Ph.D. (psychol), Pittsburgh, 54. Asst. prof. PSYCHOL, Bucknell, 54-60; assoc. prof, TEMPLE, 60-63, PROF, 63- U.S.A, 43-46. Experimental psychology; sexual behavior and chemo-reception. Address: Dept. of Psychology, Temple University, Philadelphia, Pa. 19122.

CARRAN, DR. ARCHIE B(EATSON), b. Cincinnati, Ohio, June 18, 31; m. 60; c. 1. PSYCHOLOGY. B.S, Denison, 54; Ph.D, Cincinnati, 60. U.S. Pub. Health Serv. res. fel, PSYCHOL, Longview State Hosp, 59-60; INSTR, Beloit Col, 60-63; Alberta, 63-66; STATE UNIV. N.Y. COL. BROCKPORT, 66- Mem, Nat. Sci. Found. Res. Prog, Michigan, 61, 62. Learning theory; psychogenetics and physiological comparative. Address: Dept. of Psychology, State University of New York College at Brockport, Brockport, N.Y. 14420.

CARRASCO, PROF. PEDRO, b. Madrid, Spain, Sept. 20, 21; m. 49; c. 2. ANTHROPOLOGY. M.S, Nat. Univ. Mex, 45; Viking Fund fel. & Ph.D.(anthrop), Columbia, 53. Ethnologist, Nat. Mus. Mex, 50-51; asst. prof, Mex. City Col, 50-51; act. asst. prof. anthrop, Washington (Seattle), 51-52, res. anthropologist, 52-53; Guggenheim fel, 54; res. assoc, Human Rels. Area Files, 54-56; asst. prof. ANTHROP, California, Los Angeles, 56-62, assoc. prof, 62-67; PROF, STATE UNIV. N.Y. STONY BROOK, 67- Am. Coun. Learned Socs. fel, 63-64; Nat. Sci. Found. res. grant, 66-68. Fel. Anthrop. Asn; Ethnol. Soc. Ethnology of Michoacan and Oaxaca, Mexico; social organization in ancient Guatemala and Mexico. Publ: Tarascan folk religion; Los Otomies; Land and polity in Tibet. Address: Dept. of Anthropology, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

CARRERA, DR. RICHARD NESTOR, b. Tampa, Fla, July 27, 30; m. 54; c. 4. CLINICAL PSYCHOLOGY. A.B, North Carolina, Chapel Hill, 55, M.A, 57, Ph.D.(clin. psychol), 60. Staff psychologist, Vet. Admin. Hosp, Richmond, Va, 59-61; asst. prof. PSYCHOL, Emory, 61-66; ASSOC. PROF, MIAMI (FLA), 66- Consult, State Seizure Clin, Va. Health Dept, Richmond, 60-61; Mehtodist Bd. Missions, New York, 60- Dipl, Am. Bd. Exam. Prfnl. Psychol, 67. U.S.N.R, 47-, Lt. Psychol. Asn; Interam. Soc. Psychol. Effects of sensory deprivation; small group dynamics, psychotherapy outcome; conditioning of esthetic preferences; stress in psychotherapy; response to stress. Publ: Co-auth, Therapeutic changes in psychiatric patients following brief, partial sensory deprivation, Am. Med. Asn. Arch. Gen. Psychiat, 60; auth, Need affiliation: approach and avoidant aspects, J. Clin. Psychol, 64; co-auth, Outcome study of implosive and psychoanalytically oriented therapies, J. Abnorm. Psychol, 67. Address: Dept. of Psychology, University of Miami, Coral Gables, Fla. 33124.

CARRESE, LOUIS M(ARIO), b. Italy, Apr. 13, 26; U.S. citizen; m. 50; c. 4. SOCIOLOGY. B.A, Rochester, 51, M.A, 53; Maryland, 53-56. Asst. sociol, Rochester, 52-53; proj. coordinator res. & develop, Carl L. Frederick & Assoc, 53-55, dir. eng. mgt, Frederick Res. Corp, 55-58, v.pres, 58-61; v.pres. plans & opers, White Electro-Magnetics, Inc, 61-62; prog. planning officer, NAT. CANCER INST, 62-68, DEP. ASSOC. DIR. PROGS, 68- U.S.A.A.F, 44-46. Sociol. Asn. Development of program plans; evaluation and analysis techniques for biomedical research. Publ: Co-auth, The convergence technique: a method for the planning and programming of research efforts, Mgt. Sci, 4/67. Address: 11117 Lamplighter Lane, Potomac, Md. 20854.

CARRICK, DR. PAUL MARSHMAN, JR, b. Lakewood, Ohio, July 18, 26; m. 47; c. 3. ECONOMICS, STATISTICS. B.A, Northwestern, 49; Ph.D.(econ), California, Berkeley, 56. Asst. prof. bus. admin, Texas, 54-55; San Diego State Col, 55-58; prog. adminstr, Convair Astronaut. Div, Gen. Dynamics Corp, 58-63; mem. prfnl. staff, TEMPO, Gen. Elec. Co, 63-67; SR. ECONOMIST, STANFORD RES. INST, 67- U.S.N, 44-46. Econ. Asn; Statist. Asn; Inst. Math. Statist; Math. Soc. Industrial organization; applied statistics and business organization. Publ: Psychology of rationality; Advertising effects: a new explanation, J. Mkt. Address: Stanford Research Institute, Menlo Park, Calif. 94025.

CARRIER, DR. DENIS, b. Windsor, Que, Apr. 6, 38; m; c. 2. ECONOMICS, HISTORY. B.Commerce, Sherbrooke, 58, M.Sc.Commerce, 59; D.Sc.(polit. sci), Paris Inst. Polit. Studies, 61; D.Univ.(econ), Paris, 66; M.A, Ottawa, 68. ASST. PROF. ECON, OTTAWA, 68- Can. Econ. Asn. Canadian economic history; labor economics. Publ: La stratégie des négociations collectives, Presses Univ. de France, 67. Address: Dept. of Economics, University of Ottawa, Ottawa 2, Ont, Can.

CARRIER, PROF. NEIL A(LAN), b. Detroit, Mich, May 25, 24; m. 50; c. 4. PSYCHOLOGY. B.A, Wayne State, 49, M.A, 50; fel, Michigan, 52-54, Ph.D. (soc. psychol), 56. Asst. PSYCHOL, Wayne State, 48-50; instr, West Virginia, 50-52; Michigan, 54-56; asst. prof, Colorado, 56-57; SOUTHERN ILLINOIS, 57-64, ASSOC. PROF, 64- U.S.A.A.F, 43-46, Sgt. AAAS; Psychol. Asn. College teaching of psychology; emotional and motivational concomitants of learning. Publ: Evaluating the introductory psychology course, Addison-Wesley, 66; co-auth, Skin conductance trends during learning by bright, normal and retarded children, J. Comp. & Physiol. Psychol, 64; Efficiency in measuring the effects of anxiety upon academic performance, J. Ed. Psychol, 66. Address: Dept. of Psychology, Southern Illinois University, Carbondale, Ill. 62901.

CARRIER, DR. RONALD EDWIN, b. Bluff City, Tenn, Aug. 18, 32; m. 55; c. 2. ECONOMICS. B.S, E. Tenn. State Col, 55; M.S, Illinois, 57, Earhart fel, 58-60, Ph.D.(econ), 60. Assoc. prof. econ, Mississippi, 60-63, asst. to provost, 63; prof. econ, dir. bur. bus. & econ, res. & assoc. dean res. & serv, MEMPHIS STATE, 63-66, PROVOST ACAD. AFFAIRS, 66- Proj. dir, Econ. Profile & Growth Model, Tenn. Appalachia. Econ. Asn; Asn. Bus. Econ; Regional Sci. Asn. Finance. Publ: Co-auth, An explanation of plant location in Tennessee, Bur. Bus. & Econ. Res, Memphis State Univ, 66. Address: Office of the Provost, Memphis State University, Memphis, Tenn. 38111.

CARRIERO, DR. NICHOLAS J(OHN), b. Buffalo, N.Y, July 24, 29; m. 53; c. 4. EXPERIMENTAL PSYCHOLOGY. B.S, Canisius Col, 51; Fordham, 51-52; Ph.D.(psychol), State Univ. N.Y. Buffalo, 64. Instr. psychol, Buffalo, 60; consult, Gen. Dynamics/Electronics, N.Y, 60-61, human factors mgr, 61-62; human factors engr, Bell Aerosysts. Co, 62-65; RES. TEAM LEADER PSYCHOL, U.S. ARMY HUMAN-ENG. LAB, 65- U.S.A, 52-54. Psychol. Asn Attitude change; physiological correlates of behavior; human learning; mass media persuasion. Publ: Mass media and persuasion, Gen. Dynamics/Electronics, 61; The conditioning of negative attitudes to unfamiliar items of information, J. Verbal Learning & Verbal Behav, 67. Address: R.D. 1, Box 459, Churchville, Md. 21028.

CARRIGAN, DR. PATRICIA M(ONROE), b. Lansing, Mich, Nov. 7, 28; m. 51. PSYCHOLOGY. B.A, Mich. State, 50; M.S, Michigan, 55, A.M, 56, Ph.D. (psychol), 63. Teacher, pub. schs. Mich, 49-54; asst, sch. ed, Michigan, 54-55, reading improv. serv, 55-56, U.S. Pub. Health Serv. trainee clin. psychol, 56-57, 58-59, asst. chief reading improv. surv, 57-58, asst. psychologist, neuropsychiat. inst, 57-58, 59-60, Nat. Inst. Ment. Health res. fel, Ypsilanti State Hosp. & Univ. Michigan, 60-63, asst. res. psychologist, ment. health res. inst, Michigan, 63-65; DIR. RES, ANN ARBOR PUB. SCHS, 65- Lectr, dept. psychol. & sch. ed, 65- AAAS; Psychol. Asn; Ed. Res. Asn; Coun. Measurement in Ed; Nat. Ed. Asn. Reading disability; personality assessment and development of assessment techniques; behavioral variability in schizophrenia; consequences of racial imbalance and school desegregation for long term educational objectives. Publ: Co-auth, Nature of reading disability; auth, Extraversion-introversion as a dimension of personality: a re-examination, Psychol. Bull; Intraindividual variability in schizophrenia, Dissertation Abstracts, 63. Address: 1220 Wells St, Ann Arbor, Mich. 48104.

CARRIKER, PROF. WILLIAM R(EVERE), b. Harvard, Nebr, Dec. 11, 27; m. 51; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Nebr. Wesleyan, 50; M.A, Nebraska, 52, Ed.D, 57. Teacher, pub. sch, Nebr, 50; supvr. ed. of ment. retarded, State Dept. Ed, Nebr, 51-53, consult. & staff psychologist, 53-57; asst. prof. psychol. & head spec. ed. sect, Long Beach State Col, 57-59; res. coordinator, coop. res. br, off. ed, Dept. Health, Ed. & Welfare, 59-63, dir. res. & demonstration br, div. handicapped, 63-64; PROF. SPEC. ED. & CHMN. DEPT, COL. ED, PA. STATE, 64- Mem, Coun. Except. Children, 51-, chmn, res. cmt, 66-68. Psychol. Asn; Asn. Ment. Deficiency; Ed. Res. Asn. Exceptional and mentally retarded children; psychological measurements. Publ: Summaries of research on exceptional children, Sch. Life; Annotated book list for retarded readers: high interest, low vocabulary; Educational research and the cooperative research program, Phi Delta Kappan. Address: Dept. of Special Education, College of Education, Room 101, EPC II, Pennsylvania State University, University Park, Pa. 16802.

CARRINGTON, DR. EVELYN M(AURINE), b. Austin, Tex, Aug. 30, 98. PSYCHOLOGY. B.A, Texas, 19, M.A, 20, Ph.D.(ed. psychol), 30. Teacher, high sch, Tex, 19-28; instr. ed. psychol, Texas, 28-30; prof, Sam Houston State Teachers Col, 30-41; psychol, Tex. State Col. Women, 41-48, 49-52; assoc. prof, Texas, 48-49; admin. dir, Children's Develop. Center, 52-53; psychologist & dir. instr, Shady Brook Schs, 53-55; PSYCHOLOGIST, CHILDREN'S MED. CENTER, 55-; CHILD PSYCHOLOGIST, 56- Rockefeller res. grant, 28-30; lectr, col. dent, Baylor, 56-62. Fel. Psychol. Asn; Int. Coun. Psychol.(pres, 53-54). Child psychology; exceptional children; mental health of maturity and old age; tests and measurements. Publ: The psychologist looks at the adolescent girl, 46 & Mental health of older people, 48, rev, 51, Hogg Found, Univ. Texas; The exceptional child: his nature and his needs, Tex. Woman's Univ. Press, 51. Address: 4025 Stanford St, Dallas, Tex. 75225.

CARRITHERS, PROF. JAMES MARKHAM, b. Lake Forest, Ill, Aug. 25, 14; m. 40; c. 6. ACCOUNTING, MANAGEMENT. B.A, Coe Col, 36; M.S, Iowa State, 37; Ph.D.(acct), Illinois, 42. Instr. acct, Illinois, 37-42, asst. prof, 46-55; Iowa State, 55-56; PROF. BUS. ADMIN, COE COL, 56- Ford Found. summer fel, Indiana, 58. Am. Acct. Asn; Nat. Asn. Acct. Cost accounting; managerial accounting and systems; management theory. Address: Dept. of Business Administration, Coe College, Cedar Rapids, Iowa 52402.

CARROLL, CLIFFORD A(NDREW), S.J, b. Duluth, Minn, Apr. 23, 06. ECONOMICS. A.B, Gonzaga, 33, A.M, 34; summers, Washington (Seattle), 35-38; S.T.L, Alma Col, 42; Ph.D, St. Louis, 46. PROF. ECON, SCH. ECON. & BUS. ADMIN, GONZAGA, 45-, dean sch, 45-53, regent dir, indust. rel. inst, 46-53, trustee univ, 53-62. Am. Econ. Asn; Arbit. Asn; Royal Econ. Soc. Economic theory; market structure of restaurant business. Address: School of Economics & Business Administration, Gonzaga University, Spokane, Wash. 99202.

CARROLL, DR. DONALD CARY, b. Durham, N.C, Nov. 5, 30; m. 57; c. 2. MANAGEMENT. B.S, North Carolina, 54; S.M, Mass. Inst. Tech, 58, Sloan internship, 60-61, Ford Found. fel, 63-64, Ph.D.(mgt), 65. Staff asst. opers. res, Pittsburgh Plate Glass Co, 58-59; consult. bus. systs, Westinghouse Elec. Corp, 59-60; asst. prof. MGT, MASS. INST. TECH, 61-65, assoc. prof, 65-68, PROF, 68- Assoc, Peat, Marwick, Livingston & Co, 65-; Booz, Allen, Hamilton, Inc, 66-; staff mem, Mitre Corp, 66- Consult, NASA, 66- U.S.M.C, 48-49, 54-56, Capt. Inst. Mgt. Sci; Asn. Comput. Mach. Design and evaluation of management information systems; applied operations research. Publ: On the structure of operational control systems, In: Operations research and the design of management information systems, TAPPI, 67; Implications of on-line, real-time systems for managerial decision making, In: The impact of computers on management, M.I.T. Press, 67; co-auth, On the realization of intelligent management information systems, In: Information system science and technology, Thompson Book Co, 67. Address: Dept. of Management, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

CARROLL, E(DWARD) J, b. Elma, N.Y, Mar. 29, 06; m. 31; c. 2. ECONOMICS, POLITICAL SCIENCE. A.B, Buffalo, 29; M.B.A, Northwestern, 30. Instr. mkt. & sales admin, Northwestern, 29-30; econ, American Univ, 30-31; bus. specialist, U.S. Dept. Commerce, 31-34; asst. to pres, Davis Bros, Inc, 34-44; food & drug res, Curtis Pub. Co, 44-46; DIR. ECON. RES, Sharp & Dohme, 46-53, Merck, Sharp & Dohme, 53-62, MERCK & CO, INC, 62. Mem. bd. dir, Montgomery County Community Col. Award, Pharmaceut. Mkt. Res. Socs, 60. Mkt. Asn; Statist. Asn; Pharmaceut. Asn; Asn. Bus. Econ. Application of economic research to business practices, especially problems of distribution; measuring efficiency or promotional media; economic effects of use and misuses of taxing power. Publ: The independent druggist; Merchandising in city drug stores; Supermarket merchandising. Address: 611 Shipton Lane, Bryn Mawr, Pa. 19010.

CARROLL, PROF. HERBERT A(LLEN), b. Greenfield, Mass, May 23, 97; m. 25; c. 2. CLINICAL PSYCHOLOGY. A.B, Bates Col, 23; Chicago, 27; A.M, Brown, 28; Harvard, 28; Ph.D.(psychol), Columbia, 30. Instr. pub. speaking, James Millikin, 23-24; teacher & adminstr, pub. schs, 24-28; asst. to Dr. A.I. Gates, Columbia, 29-30; asst. prof. ed. psychol, Minnesota, 30-36; travel & private res, 36-41; assoc. prof. PSYCHOL, NEW HAMPSHIRE, 41-43, prof. & chmn. dept, 43-62, EMER. PROF, 62- Med.C, U.S.A, 17-19. Fel. AAAS; fel. Psychol. Asn. Gifted children; psychotherapy. Publ: Educational psychology; Genius in the making; Mental hygiene, Prentice-Hall 4th ed, 64. Address: Dept. of Psychology, University of New Hampshire, Durham, N.H. 30908.

CARROLL, PROF. HOLBERT N(ICHOLSON), b. Charleroi, Pa, June 30, 21. POLITICAL SCIENCE. B.A, Pittsburgh, 43, M.A, 47; fel, Harvard, 49-50, Ph.D.(polit. sci), 53. Instr. POLIT. SCI, PITTSBURGH, 46-48, asst. prof, 50-55, assoc. prof, 55-60, PROF, 60- Consult, Brookings Inst, 59. U.S.A, 43-46. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. American government; legislative process; foreign policy; constitutional law. Publ: House of representatives and foreign affairs, Little, rev. ed, 66; Congress and national security policy, In: The Congress and America's future, Prentice-Hall, 65. Address: Dept. of Political Science, University of Pittsburgh, Pittsburgh, Pa. 15213.

CARROLL, PROF. JOHN BISSELL, b. Hartford, Conn, June 5, 16; m. 41; c. 1. PSYCHOLOGY. B.A, Wesleyan, 37; Michigan, 37; Ph.D.(psychol), Minnesota, 41. Asst. psychol, Minnesota, 37-39; instr. psychol. & ed, Mt. Holyoke Col, 40-42; psychol, Indiana, 42-43; lectr, Chicago, 43-44; res. psychologist, Adj. Gen. Off, U.S. Dept. Army, 46-49; asst. prof. ed, grad. sch. ed, Harvard, 49-53, assoc. prof, 53-56, prof, 56-67; SR. RES. PSYCHOLOGIST, ED. TESTING SERV, 67- Lectr, George Washington, 47-49; U.S. Dept. Agr. Grad. Sch, 47-49. Mem. adv. panel new ed. media, U.S. Off. Ed, 62-65; automatic lang. processing cmt, Nat. Acad. Sci, 64-66; Nat. Acad. Ed, 65- U.S.N, 44-46. AAAS; fel. Psychol. Asn; Ling. Soc; Psychomet. Soc.(secy, 52-55, pres, 60-61); Psychonomic Soc; Asn. Mach. Trans. & Comput. Ling; Ed. Res. Asn. Psychology of language; learning and cognition as applied to education. Publ: The study of language, Harvard, 53; Modern language aptitude test, Psychol. Corp, 59; Language and thought, Prentice-Hall, 64. Address: 33 Eglantine Ave, Pennington, N.J. 08534.

CARROLL, DR. JOHN DOUGLAS, b. Philadelphia, Pa, Jan. 3, 39; m. 65. EXPERIMENTAL PSYCHOLOGY, PSYCHOMETRICS. B.S, Florida, 58; E.T.S. & Nat. Inst. Ment. Health fels. & Ph.D.(psychomet), Princeton, 63. Res. asst. exp. psychol, Yale, 61-63; mem. tech. staff exp. psychol. & psychomet, Bell Tel. Labs, 63-65; asst. prof. indust. eng. & opers. res, N.Y. Univ, 65-66; MEM. TECH. STAFF EXP. PSYCHOL. & PSYCHOMET, BELL TEL. LABS, 66- Nat. Inst. Ment. Health res. grant, 65-66. Consult, Bell Tel. Labs, 65-66. AAAS; Psychol. Asn; Psychomet. Soc. Methodological research in multidimensional scaling and other multivariate statistical techniques and their application to behavioral data; human learning of continuous functional relations between scaled variables; computer simulation of cognitive processes. Publ: Functional learning: the learning of continuous functional mappings relating stimulus and response continua, Ed. Testing Serv. Res. Bull, 63; co-auth, Computer simulation of individual belief systems, Am. Behav. Scientist, 65; co-auth, Parametric representation of nonlinear data structures, In: Multivariate analysis, Academic, 66. Address: Room 2D-549, Bell Telephone Laboratories, Murray Hill, N.J. 07974.

CARROLL, DR. JOHN J(OSEPH), b. Chicago, Ill, Sept. 26, 18; m. 40; c. 2. ECONOMICS. Fel, Michigan, 49-51, Ph.D.(econ), 54. Asst. prof. econ, St. Lawrence, 47-49, 51-54, assoc. prof, 54-57, prof. & chmn. dept, 57-61; chief munic. res, dept. audit & control, State of New York, 61-62; fiscal adv, Ford Found-Calcutta Metrop. Planning Orgn, India, 62-66; DIR. DIV. ECON. & LONG RANGE STUDIES, SOC. SECURITY ADMIN, 66- Consult, State Cmt. Tax & Fiscal Matters, Md, 60; State Munic. Affairs, N.Y, 60-U.S.A.A.F, 43-46, Capt. Econ. Asn; Nat. Tax Asn. Public finance; money and banking; social security finance. Publ: Co-auth, Distribution of tax payments by income groups: a case study for 1948, Nat. Tax J, 51; Alternative methods of financing old-age, survivors and disability insurance, Univ Michigan Govt. Studies, 60; State and local government—the role of state aid, N.Y. State Dept. Audit & Control, 63. Address: Room 5094, S. HEW Bldg, 330 C St. S.W, Washington, D.C. 20201.

CARROLL, PROF. JOHN MILLAR, Indust. Eng, Electronics. See 11th ed, Suppl. II to Phys. & Biol. Vols.

CARROLL, DR. J(OSEPH) DOUGLAS, JR, b. Minneapolis, Minn, May 2, 17; m. 42; c. 5. URBAN GEOGRAPHY. A.B, Dartmouth Col, 38; M.C.P, Harvard, 47, Ph.D, 50. Resident dir. soc. sci. res. proj, Michigan, 48-53; study dir, Detroit Metrop. Area Traffic Study, 53-55; dir, Chicago Area Transportation Study, 55-63; EXEC. DIR, TRI STATE TRANSPORTATION CMN, 63- Mem. exec. cmt, hwy. res. bd, Nat. Acad. Sci, 61- U.S.N.R, 42-46, Lt. Pop. Asn. Metropolitan ecology; urban travel; relations of homes to work places. Publ: Report on the Detroit area traffic study; Urban land vacancy; Defining urban trade areas, Traffic Quart. Address: 1090 Minisink Way, Westfield, N.J. 07090.

CARROLL, PROF. JUNE S(TARR), b. Lincoln, Nebr, June 23, 21. GEOGRAPHY. A.B, California, Los Angeles, 46, M.A, 48. ASSOC. PROF. GEOG, LOS ANGELES CITY COL, 47- Carnegie fel, McGill, 50-52. AAAS; Arctic Inst. N.Am; Polar Soc; Asn. Am. Geog; Geog. Soc. Geography of California. Address: Dept. of Geography, Los Angeles City College, Los Angeles, Calif. 90029.

CARROLL, PROF. PHILIP M(acDONALD), Econ, see 10th ed, Soc. & Behav. Vols.

CARROLL, DR. R(OBERT) BRUCE, b. Burlington, Vt, Feb. 22, 32; m. 59; c. 2. POLITICAL SCIENCE. B.A, Vermont, 53; Upson fel. & M.P.A, 57; Ford Found. fel. & Ph.D.(polit. sci), Chicago, 63. Res. asst. pub. admin, Citizens Res. Coun. Mich, 55-56; instr. & asst. prof, POLIT. SCI, Smith Col, 57-65; ASSOC. PROF, MIDDLEBURY COL, 65- U.S.A, 53-55, 1st Lt. Polit. Sci. Asn. American constitutional law and public administration. Publ: Co-ed. & contrib, Cooperation and conflict: a reader in federalism, 68. Address: Dept. of Political Science, Middlebury College, Middlebury, Vt. 05753.

CARROLL, DR. STEPHEN J(OHN), JR, b. Boston, Mass, Aug. 23, 30; m. 61. INDUSTRIAL RELATIONS, BUSINESS ADMINISTRATION. B.S, California, Los Angeles, 57; M.A, Minnesota, 59, fel, 60-61, Ph.D.(indust. rels), 64. Asst, indust. rels. center, Minnesota, 57-60, instr. indust. rels, 59-61; asst. prof. indust. admin, Villanova, 61-64; BUS. ADMIN, MARYLAND, 64-67, ASSOC. PROF, 67- U.S.N, 47-53. Indust. Rel. Res. Asn. Appraisal and selection methods; college recruiting practices; work measurement; management development approaches; supervisory and training methods; job satisfaction; managerial motivation; research methodology. Publ: Development of managerial performance, South-Western Pub, 63; Measuring the work of a personnel department, Personnel; Relationship of various college graduate characteristics to recruiting decisions, J. Appl. Psychol, 66. Address: Dept. of Business Administration, University of Maryland, College Park, Md. 20742.

CARROLL, PRES. THOMAS H(ENRY), Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

CARROLL, DR. VERN, b. Brooklyn, N.Y, Sept. 2, 33; m. 61; c. 4. SOCIAL ANTHROPOLOGY. B.A, Yale, 59; Nat. Sci. Found. fel, Cambridge, 59-61, B.A, 61, M.A, 66; M.A, Yale, 62; Ph.D.(anthrop), Chicago, 66. ASST. PROF. ANTHROP, WASHINGTON, SEATTLE, 66- U.S. Pub. Health Serv. fel, 61-66; Am. Coun. Learned Soc. fel, 67-68; Nat. Sci. Found. grant Nukunono ling, 67-68; vis. asst. researcher, Pac. & Asian Ling. Inst, Univ. Hawaii, 67-68. U.S.M.C, 53-57, Capt. Fel. Am. Anthrop. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Polynesian Soc. Theoretical social anthropology, especially kinship and local organization; Polynesian linguistics. Publ: Place names on Nukunono atoll, Atoll Res. Bull. No. 107, 64; An outline of the structure of the language of Nukunono, J. Polynesian Soc, Vol. 74, Nos. 2 & 4; Generative elicitation techniques in Polynesian lexicography, Oceanic Ling, 67. Address: Dept. of Anthropology, University of Washington, Seattle, Wash. 98105.

CARROLL, PROF. WILLIAM A, b. Providence, R.I, July 25, 23; m. 58. POLITICAL SCIENCE. A.B, Brown, 48; M.A, Georgetown, 50, fel, 53-55, Ph.D. (polit. sci), 63. Instr. POLIT. SCI. Oglethorpe Col, 58-59, asst. prof, 59-62; prof, Frostburg State Col, 63-68, chmn. dept, 68; PROF, GUILFORD COL, 68- Vis. scientist, Nat. Sci. Found. Instnl. grant, Auburn Univ, 67. U.S.A, 43-45. Polit. Sci. Asn. American law and history; American constitutional law; judiciary; legislature. Publ: Natural law and freedom of communication under the Fourteenth Amendment, Notre Dame Lawyer, 12/66; The constitution, supreme court and religion, Am. Polit. Sci. Rev, 9/67. Address: Guilford College, Greensboro, N.C. 27410.

CARRON, THEODORE J(OSEPH), b. Detroit, Mich, July 7, 18; m. 50; c. 4. PSYCHOLOGY, CHEMICAL ENGINEERING. B.Ch.E, Detroit, 40, M.S, 63; M.S, Michigan, 41. Prod. engr, E.I. du Pont de Nemours & Co, 41-46; chem. engr, ETHYL CORP, 46-47, head chem. tech. office, 47-52, supvr. chem. eng. sect, 52-55, dir. employee training & develop, 55-57, asst. dir. admin. & serv, 57-61, MGR. EMPLOYEE RELS, RES. LABS, 61-, CHMN. FEL. CMT, 57- Adj. prof, Detroit, 63- Mem. eng. manpower cmn, Eng. Joint Coun, 63- AAAS; Psychol. Asn; Inst. Chem. Eng; Soc. Eng. Ed; Soc. Training & Develop. Psychological tests; probability and statistics; selection, training and development of scientists and engineers; personnel management. Publ: Human relations training and attitude change: a vector analysis, 64 & co-auth,

Evaluation of a reading development program for scientists and engineers, 65, Personnel Psychol; auth, Simplification of employee appraisal programs, J. Indust. Psychol, 65. Address: Ethyl Corp, 1600 W. Eight Mile Rd, Ferndale, Mich. 48220.

CARROTHERS, DR. GERALD A(RTHUR) P(ATRICK), b. Saskatoon, Sask, July 1, 25; m. 58; c. 3. URBAN PLANNING, ENVIRONMENTAL STUDIES. B.Arch, Manitoba, 48, M.Arch, 51; Royal Archit. Inst. Can. scholar, 52; M.C.P, Harvard, 53; Can. Soc. Sci. Res. Coun. fel, 55; Ph.D.(econ. & regional planning), Mass. Inst. Tech, 59. Res. planner, Manitoba, 51-53, lectr, 48-52; asst, center for urban studies, Mass. Inst. Tech, 53-55; asst. prof. town & regional planning, Toronto, 56-59; from assoc. prof. to prof. city & regional planning, Pennsylvania, 60-66, chmn. dept, 61-65, dir. inst. environ. studies, 65-66; adv, Cent. Mortgage & Housing Corp, 67-68; DEAN FACULTY ENVIRON. STUDIES, YORK (ONT), 68- Consult, 53-66. Mem. environ. sci. rev. cmt, U.S. Pub. Health Serv, 66, eng. & urban health sci. study sect, 67- Am. Econ. Asn; Pop. Asn; Regional Sci. Asn.(ed, 54-63, v.pres, 66-67); Inst. Planners; Can. Econ. Asn; Inst. Pub. Admin. Can; Town Planning Inst. Can.(ed, 56-59). Urban and regional analysis; organization and administration; environmental studies. Publ: Planning in Manitoba, 56; co-auth, Methods of regional analysis, Wiley, 60; An historical review of gravity and potential concepts of human interaction, J. Am. Inst. Planners. Address: Faculty Environmental Studies, York University, Toronto, 12, Ont, Can.

CARROW, SISTER MARY ARTHUR, Speech Path, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CARRUTH, PROF. JAMES F(RANKLIN), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

CARRUTH, PROF. MAX L(YNN), b. Coalville, Utah, Feb. 24, 17; m. 42; c. 4. SOCIOLOGY. B.S. & M.S, Utah, 47, Ph.D.(sociol), 53; Chicago, 48-49. Instr. SOCIOL, UTAH, 47-48, 49-53, asst. prof, 54-59, assoc. prof, 59-66, PROF, 66- U.S.A, 41-45. Sociol. Asn; Geront. Soc. Industrial and urban sociology; social psychology and gerontology. Address: 3180 Coronet Dr, Salt Lake City, Utah 84117.

CARRUTHERS, DR. JACOB H(UDSON), b. Dallas, Tex, Feb. 15, 30; m. 58; c. 1. POLITICAL SCIENCE. A.B, Samuel Huston Col, 50; M.A, Texas Southern, 58; Ph.D.(polit. sci), Colorado, 66. Instr. POLIT. SCI, Prairie View Agr. & Mech. Col, 61-64; ASST. PROF, KANS. STATE COL. PITTSBURG, 66- U.S.A.F, 51-52. Polit. Sci. Asn. Theory of revolution and civil disobedience. Address: Dept. of Political Science, Kansas State College of Pittsburg. Pittsburg, Kans. 66764.

CARSCH, DR. HENRY D, b. Frankfurt, Germany, Mar. 27, 25; U.S. citizen. SOCIOLOGY, ANTHROPOLOGY. B.A, California, 53; Yale, 53-54; M.A, Chicago, 58; M.A, Princeton, 59, Woodrow Wilson fel, 61-62, Ph.D.(sociol, anthrop), 65. Instr. SOCIOL. & ANTHROP, Smith Col, 59-61; asst. prof, Sweet Briar Col, 63-65; Carleton Col, 65-67; ASSOC. PROF, QUEEN'S (ONT), 67- Asian study grants, Ford Found, 64-65 & Hill Found, summer, 66; Carleton Col. Faculty Improv. Fund travel grant, spring, 67. Brit. Army, 44-45. Am. Sociol. Asn; Am. Anthrop. Asn; Soc. Study Social Probs; Can. Sociol. & Anthrop. Asn. Analysis of problems of social control, especially those informal patterns found in the popular culture and the mass media; socialization and social stratification. Publ: Culture and personality in literature, Wiley, 68; Fairy tales and socialisation, In: Culture and social life, Random, 67; The protestant ethic and the folk hero in America, Rev. Socio-Relig. Studies, 2/68. Address: Dunning Hall, Queen's University, Kingston, Ont, Can.

CARSON, DR. DANIEL H(ARRIS), b. Santa Barbara, Calif, Apr. 29, 25; m. 55; c. 3. PSYCHOLOGY. B.A, California, Berkeley, 53 & 54; Mass. Inst. Tech, 54-56; M.A, Hopkins, 58, Ph.D.(psychol), 60. Asst. planner, City of Boston, 55-56; jr. instr. psychol, Hopkins, 57-60, ASST. PROF, 60-61; eng. psychol. lab, inst. sci. & tech, MICHIGAN, 61-62, MENT. HEALTH RES. INST, 62-67, PSYCHOL. IN ARCHIT, 67-, ASSOC. RES. PSYCHOLOGIST, 62-, eng. psychol. lab, 61-62. Guest critic, dept. archit, California, 66; vis. assoc. prof, Utah, 67; guest lectr, dept. design, N.C. State, 68; summers, asst. planner, City of Bristol, Conn, 56, Jr. instr, Hopkins, 58 & 60, vis. asst. prof, California, Santa Barbara, 61. U.S.N.R, 43-46. AAAS; Psychol. Asn; Psychonomic Soc; Human Ecol. Soc. Applications of multivariate nonmetric techniques to problems in cognition and perception; nonverbal performance of aphasics; vigilance performance; environmental complexity and stress; applications of behavioral science to environmental design. Publ: Letter constraints within words in printed English, Kybernetik, 1: 46-54, 61; The interactions of man and his environment, In: Environmental evaluations, Col. Archit. & Design, Univ. Michigan, 65; co-auth, Experimental studies of performance by aphasics, Cortex, 3/68. Address: 2054 Mental Health Research Institute, University of Michigan, Ann Arbor, Mich. 48104.

CARSON, PROF. DEANE CHALMERS, b. Greeley, Colo, Nov. 7, 25; m. 47; c. 5. ECONOMICS. A.B, Colorado State, 48; A.M, Col. of William & Mary, 49; fel. & Ph.D.(econ), Clark, 56. Instr. ECON, Allegheny Col, 51-52; Instr, BROWN, 54-56, asst. prof, 56-60, assoc. prof, 60-63; sr. economist, comptroller currency, U.S. Treas. Dept, 63-65; vis. assoc. prof. finance, Northwestern, 65-66; PROF. BANKING, GRAD. SCH. BUS, COLUMBIA, 66- Ford Found. faculty res. fel, 58-59; Small Bus. Admin. res. grant, 60; summer mem. Soc. Sci. Res. Coun. Seminar, 57. Consult. economist, House Banking & Currency Cmt, 67- Econ. Asn. Monetary policy and banking economics; urban redevelopment economics. Publ: Ed, Banking and monetary studies, Irwin, 63; auth, Money and finance: reading in theory, policy and institutions, Wiley, 65; Is the federal reserve really necessary, J. Finance, 12/64. Address: Graduate School of Business, Columbia University, 105 Uris Hall, New York, N.Y. 10027.

CARSON, DR. EDWARD E(LMER), b. La Porte, Ind, Oct. 23, 28; m. 51; c. 5. AGRICULTURAL ECONOMICS. B.S.A, Purdue, 53, M.S, 56, Ph.D, 63. Instr. FARM MGT, PURDUE, 55-62, asst. prof, 62-66, ASSOC. PROF, 67-, EXTEN. ECONOMIST, 55- U.S.A.F, 46-49, Sgt. Farm Econ. Asn. Agricultural finance and policy; farm management production economics, particularly utilization of electronic data processing for farm accounting and business analysis; economics of dairying. Publ: Farmer use of merchant credit in Indiana, Purdue Univ. Bul, 2/57; co-auth, Future of the Indiana dairy industry, In: Economic and marketing information, Purdue, 65; co-auth, Purdue farm account activities—general, enterprise, service, Agr. Symp, Int. Bus. Mach. Corp, 5/65. Address: Dept. of Agricultural Economics, Purdue University, Lafayette, Ind. 47907.

CARSON, DR. GARY L, b. Idaho Falls, Idaho, June 21, 34; m. 56; c. 4. PSYCHOLOGY. B.A. & M.S, Brigham Young, 59; Ed.D.(psychol), Utah State, 65. Instr, high sch, Nev, 56-57, counsr. & instr, 57-58; head resident, Brigham Young, 58-59; counsr, pub. sch, Utah, 59-63; res. assoc. inter-personal rels. in rural rehab, Utah, 64-65; ASST. PROF. PSYCHOL, WEBER STATE COL, 65-, CHMN. DEPT, 67- Psychol. Asn; Personnel & Guid. Asn. Counseling; testing; statistics; developmental psychology. Publ: Leadership and profiles on the MMPI and CPI, Col. Student Personnel, 1/66; The self-concept of welfare recipients, 1/67 & The self-concept of welfare recipients revisited, (in press), Personnel & Guid. J. Address: Dept. of Psychology, Weber State College, 3750 Harrison Blvd, Ogden, Utah 84403.

CARSON, PROF. J(OHN) S(TILLINGTON) G(UY), b. Monterey, Va, Sept. 1, 00; m. 30. POLITICAL SCIENCE. B.A, Hampden-Sydney Col, 23; M.A, Virginia, 31, Ph.D.(polit. sci), 39. Asst. prof. POLIT. SCI, The Citadel, 40-44, 46-47; acting asst. prof, Cornell, 44-45; PROF, RANDOLPH-MACON WOMANS COL, 47- U.S.A, 18-19. Polit. Sci. Asn. Constitutional law. Address: Dept. of Political Science, Randolph-Macon Womans College, Lynchburg, Va. 24504.

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CARSON, DR. ROBERT G(ORDON), JR, Indust. Eng, see 11th ed, Phys. & Biol. Vols.

CARSON, WILLIAM J(OSEPH), b. Reynolds, Ga, Sept. 27, 98; m. 28; c. 2. ECONOMICS, FINANCE. B.S, Georgia, 21; A.M, Columbia, 22; Ph.D, Brookings Sch, 28. Asst. prof. finance, Pennsylvania, 28-35, assoc. prof, 35-65; prof. econ. & chmn. dept. bus. admin, Augusta Col, 66, vis. prof, 67; RETIRED. Asst. exec. dir, Nat. Bur. Econ. Res, 37-39, exec. dir, 39-65. Consult, Off. Statist. Standards, U.S. Bur. Budget, 52-62. Civilian with War Shipping Admin, 42. U.S.A, 18. Econ. Asn; Statist. Asn.(v.pres, 39). Finance and economic research. Publ: Financing production and distribution of cotton; Banking and credit in Richmond Federal Reserve district; Savings and employee plans in Philadelphia. Address: RFD 1, Granville, N.Y. 12832.

CARSON, WILLIAM MORRIS, b. Chicago, Ill, Dec. 7, 24; c. 5. ANTHROPOLOGY. B.S, Columbia, 50; M.A, Hopkins, 51, fel, Mid. East Inst, 51-52; Ford Found, 52-53; Ford fel, Chicago, 53-54; London Sch. Econ, 56-57. Asst. prof. Mid. East studies, sch. adv. int. studies, Hopkins, 54-56; res. supvr, Ford Found. self study, Lincoln, 57-58; asst. training officer, Int. Coop. Admin, 58, regional training officer, U.S. Opers. Mission, Philippines, 58-60, training officer, Iraq, 60-61, Pakistan, 61-64; STAFF ANALYST, ARABIAN-AM. OIL CO, 64- U.S.N.A.F, 43-45. Fel, Anthrop. Asn; Soc. Appl. Anthrop; fel. Royal Anthrop. Soc. Evaluation of the impact of industrialization on peasant workers; evaluation of institutional organization; evaluation and planning of training programs of foreign technical specialists; industrial communication and management in overseas corporations with a multinationality labor force. Publ: Administration and change, 8/63, co-auth, Training: suggested guidelines for Pakistan, summer 64 & auth, An essay on development, 6/67, Nat. Inst. Pub. Admin, Pakistan. Address: Aramco, Box 1726, Dhahran, Saudi Arabia.

CARSTATER, DR. EUGENE D(EBS), b. Mill Hall, Pa, June 28, 05; m. 30; c. 3. PSYCHOLOGY. A.B, Bucknell, 26, M.A, 30; N.Y. Univ, 30-31; fel, Minnesota, 31-35, Ph.D.(ed, ed. psychol), 37. Teacher & prin, high sch, Pa, 26-29; instr. & asst. govt, Wash. Sq. Col, N.Y. Univ, 30-31; counsr. voc. rehab, State Dept. Ed, Minn, 35-38, admin. asst. to cmnr. ed, 38-39, dir. voc. ed, 39-41, 43, voc. rehab, 44-46; coordinator student personnel serv, Hampton Inst, 41-43; head training res. br, personnel res. div, BUR. NAVAL PERSONNEL, 46-58, ED. SPECIALIST, personnel syst. res. br, 58-60, instructional standards & mat. div, 60-65, STAFF OF ASST. CHIEF ED. & TRAINING, 65-, mem. training res. adv. bd, 64. Summer lectr, Bucknell, 36, Indiana, 58. Trustee, Bucknell, 60-65. Tech. adv. panel training & training devices, cmt. human resources, res. & develop. bd, U.S. Dept. Defense, 50-53, assoc. mem. panel morale & human rels, 51-53; mem. adv. cmt. human eng, Off. Naval Res, 54-57. U.S.N.R, 44-46, Res, 46-55, Lt. Comdr. AAAS; Psychol. Asn; Human Factors Soc; Nat. Coun. Measurement in Ed; Acad. Polit. & Soc. Sci; Ed. Res. Asn; Soc. Personnel Admin. Analysis of performance and training requirements for military occupational fields and special duties; applications and innovations in instructional technology; systems development; evaluation of training programs; training research program management. Address: 2641 Jackson Dr, Falls Church, Va. 22043.

CARSTENS, DR. W(ILLIAM) PETER, b. Cape Town, S.Africa, Aug. 9, 29; m. 56; c. 3. SOCIAL ANTHROPOLOGY, SOCIOLOGY. B.A, Rhodes, S.Africa, 53; Ph.D.(soc. anthrop), Cape Town, 61. Lectr. soc. anthrop, Cape Town, 56-64; ASSOC. PROF. ANTHROP, North Carolina, 64-65; TORONTO, 65- Koerner Found. fel, Univ. British Columbia, 62-63. AAAS; Anthrop.

Asn; Sociol. Asn; fel. African Studies Asn; fel. Royal Anthrop. Inst. Gt. Brit; Assn. Soc. Anthrop. Brit. Commonwealth. Peasant communities and social change with particular reference to South Africa and Southwest Africa; development of social theory. Publ: The social structure of a Cape coloured reserve: a study of racial integration and segregation in South Africa, Oxford Univ, 66. Address: Dept. of Anthropology, University of Toronto, Toronto, Ont, Can.

CARTER, DR. ANNE P(ITTS), b. New York, N.Y, May 7, 25; m. 53; c. 2. ECONOMICS. A.B, Queens Col, 45; A.M, Radcliffe Col, 46, Jackson & Whitney fels. & Ph.D.(econ), 49. Instr. econ, Brooklyn Col, 47-49; asst. prof, Smith Col, 51-53; lectr, Wellesley Col, 55; SR. RES. ASSOC. ECON, HARVARD, 49-, ASST. PROF, 65- Econ. Asn; Economet. Soc. Technological change; investment; economic development. Publ: Investment, capacity utilization and change in input structure in the tin can industry, Rev. Econ. & Statist; Technological structure of the textile industry, In: Studies in the structure of the American economy; Capital coefficients as economic parameters, the problem of instability, In: Studies in income and wealth. Address: Dept. of Economics, Harvard University, 1583 Massachusetts Ave, Cambridge, Mass. 02138.

CARTER, PROF. BENJAMIN CARROLL, b. Mobile, Ala, Sept. 2, 16; m. 38; c. 3. PSYCHOLOGY, COUNSELING. A.B, Howard Col, 40; Th.M, Southern Baptist Theol. Sem, 43; Ed.D.(counseling), Georgia, 66. Pastor, Baptist Churches, 37-64; counsr. to students, Univ. Georgia, 64-66; PROF. PSYCHOL, TIFT COL, 66- Psychol. Asn. Biblical basis for counseling; Jesus' methods in interpersonal relationships; the use of emotion as an equivalent to or substitute for religious experience, especially in late adolescence. Address: Dept. of Psychology, Tift College, Forsyth, Ga. 31029.

CARTER, DEAN BYRUM E(ARL), b. Shawnee, Okla, Mar. 3, 22; m. 44; c. 2. POLITICAL SCIENCE. A.B, Oklahoma, 43; Ph.D, Wisconsin, 51. Instr. POLIT. SCI, INDIANA, 47-51, asst. prof, 51-56, assoc. prof, 56-60, PROF, 60-, DEAN COL. ARTS & SCI, 66- Polit. Sci. Asn. Political theory; comparative government. Publ: Office of prime minister. Address: 1900 Ruby Lane, Bloomington, Ind. 47401.

CARTER, DR. GENE W(INFRED), b. Perry, Iowa, Jan. 28, 16; m. 42; c. 1. SOCIOLOGY. A.B, Simpson Col, 43; M.A, Northwestern, 46; B.D, Garrett Biblical Inst, 46; Crusade scholar, Wisconsin, 52-53; California, 53-55; D.D, Pacific Col.(Calif), 60. Instr. sociol, Simpson Col, 46-52; assoc. prof. church & community, Pacific Sch. Relig, 53-56; supt, Metrop. Dist, METHODIST CHURCH, 56-60, Bay View Dist, 60-61, assoc. dir, dept. radio & TV, TV, RADIO & FILM CMN, 61-63, exec. secy. sect. radio & TV, 63-64, DIR, NEW YORK OFF, 64- Chmn. bd. mgrs, dept. broadcasting & film, Nat. Coun. Churches of Christ in U.S.A, 67-; mem. gen. assembly, Nat. Coun. Churches, 67- Geront. Soc. Gerontology; marriage and family; rural and urban sociology; city planning; mass communication; social pathology; sociology of religion. Address: 475 Riverside Dr, Room 420, New York, N.Y. 10027.

CARTER, PROF. GEORGE FRANCIS, b. San Diego, Calif, Apr. 6, 12; m. 39; c. 3. GEOGRAPHY. A.B, California, 34, Ph.D.(geog), 42. Curator anthrop, San Diego Mus, 34-38; asst. geog, California, 38-40, 41-42; assoc. soc. sci. analyst, Latin Am. Div, Off. Strategic Servs, D.C, 42-43, analyst, 45; instr. GEOG, Hopkins, 43-44, asst. prof, 44-46, assoc. prof, 46-48, prof, 48-67; DISTINGUISHED PROF, TEXAS A&M, 67- Asst, San Diego State Col, 37-38, instr, 40-41; Guggenheim fel, 53-54. Fel. Inter-Am. Inst. Asn. Am. Geog.(citation, 58); fel. Geog. Soc; Soc. Am. Archaeol; Soc. Hist. Discoveries. Agricultural origins and diffusions; American Indian agriculture; application of soils, climatic change and eustatic sealevel studies to the problem of the antiquity of man in America. Publ: Plant geography and culture history in the American Southwest; Pleistocene man at San Diego; Man and the land, Holt, 64. Address: Dept. of Geology & Geography, College of Geoscience, Texas A&M University, College Station, Tex. 77843.

CARTER, PROF. GEORGE LaROME, JR, b. Claiborne Co, Tenn, Nov. 13, 22. ADMINISTRATION, ANIMAL SCIENCE. B.S, Tennessee, 47; Nat. Agr. Exten. Center Adv. Study fel, Wisconsin, 58-61, M.S, 60, Kellogg fel. & Ph.D. (exten. admin), 61. Teacher, pub. schs, Tenn, 47-49; asst. county agent agr, Univ. Tennessee, 49-52, asst. state 4-H club specialist, agr. exten. serv, 61-62; youth ed, Farm & Ranch Mag, 52-54; asst. state 4-H Club leader, N.C. State, 54-58; assoc. prof. EXTEN. ADMIN. & ED, WISCONSIN, 62-67, PROF, 67-, ED. J. COOP. EXTEN, 62- Consult, exten. div, Univ. Missouri, 67-69. Chmn, Nat. 4-H Eval. Develop. Cmt, 61-65; participant, Nat. Exten. Curriculum Seminar, 63- U.S.A, 43-46, 1st Lt. AAAS; Sociol. Asn; Adult Ed. Asn; Rural Sociol. Soc. Professional development of extension personnel, especially conceptualizing and describing job requirements and work environment and curricula for graduate and on the job training. Publ: Co-auth, Selected readings and references in 4-H club work, Nat. Agr. Exten. Center Adv. Study, 61; auth, A conception of 4-H, J. Coop. Exten, fall & winter 63; The project: a basis for effective teaching/learning, Indian J. Exten. Ed, 7/65. Address: 216 Agricultural Hall, University of Wisconsin, Madison, Wis. 53706.

CARTER, DR. GERALD C(LAYTON), b. Henryville, Ind, Mar. 21, 13; m. 36; c. 1. PSYCHOLOGY. A.B, DePauw, 34; M.A, Ind. State Teachers Col, 39; Ph.D.(appl. psychol), Purdue, 44. Dept. head, naval training sch, Purdue, 42-45; supvr. training, ILLINOIS, 45-46, asst. prof. psychol, 46-50, assoc. prof, 50, SUPVR. TESTING & COUNS, 54-, PROF. PSYCHOL, 55-, ASSOC. DEAN, DIV. UNIV. EXTEN, 64-, clin. counsr, 46-47, dir. student personnel bur, 47-49, asst. dean, div. univ. exten, 61-64. Consult, Am. Hosp. Asn; regional off, U.S. Dept. Voc. Rehab, 59-61; voc. consult, Dept. Health, Ed. & Welfare, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol. Expert in human rel, U.S.A.F, 51. AAAS; fel. Psychol. Asn; Inst. Math. Statist. Personality adjustment; psychotherapy; employee selection. Publ: Measurement of supervisory ability. Address: 118 Illini Hall, University of Illinois, Champaign, Ill. 61820.

CARTER, PROF. GWENDOLEN M(ARGARET), b. Hamilton, Ont, July 17, 06; nat. POLITICAL SCIENCE. B.A, Toronto, 29; B.A, Oxford, 31, M.A, 36; Green fel, Radcliffe Col, 35-36, A.M, 36, Ann Radcliffe fel, 36-37; traveling fel, Royal Soc. Can, 37-38; Ph.D, Harvard, 38; D.Litt, Wheaton Col, 62, Goucher Col, 64, Boston, 66; D.H.Litt, Russell Sage Col, 63; LL.D, West. Col, 64, Carleton (Can), 65, McMaster, 66. Lectr, McMaster, 32-35; instr. hist. & polit. sci, Wellesley Col, 38-41; mem. bur. int. res, Harvard, 41-42; instr. polit. sci, Tufts Col, 42-43; asst. prof, Smith Col, 43-47, assoc. prof, 47-52, prof, 52-61, Sophia Smith prof, 61-64; MELVILLE J. HERSKOVITS PROF. POLIT. SCI. & DIR. PROG. AFRICAN STUDIES, NORTHWESTERN, 64- Vis. assoc. prof, Mt. Holyoke Col, 47-48. Researcher, Off. Strategic Serv, 43-45. Mem. adv. cmt, Africa bur, U.S. Dept. State, 63-; bd, African-Am. Inst, 64-; Int. Inst. Pac. Rels. Polit. Sci. Asn; African Studies Asn. (pres, 58-59); Can. Polit. Sci. Asn; Can. Hist. Asn; Int. Polit. Sci. Asn. Government politics of Great Britain, France and Soviet Union; political dynamics and racial policies in Africa south of the Sahara. Publ: Co-auth, Independence for Africa; Major foreign powers, Harcourt, 5th ed, 67; South Africa's Transkei: the politics of domestic colonialism, Northwestern Univ, 67. Address: 222 Lake St, Evanston, Ill. 60201.

CARTER, PROF. HAROLD D(EAN), b. McIntyre, Iowa, Dec. 30, 04; m. 36; c. 2. PSYCHOLOGY. A.B, Minnesota, 26, A.M, 27, Ph.D.(psychol), 30. Soc. Sci. Res. Coun. fel, Stanford, 30-32, instr, 33-34, res. assoc, 34-36; adolescence study proj, inst. child welfare, CALIFORNIA, BERKELEY, 32-37, lectr. ED, 37-39, asst. prof, 39-42, assoc. prof, 42-49, PROF, 49- Fel. Psychol. Asn; Soc. Res. Child Develop; Psychomet. Soc. Twin resemblances; emotional factors in learning; vocational interests. Publ: Organization of mechanical intelligence, J. Genetic Psychol; Vocational interests and job orientation, Appl. Psychol. Monogr; Development of a diagnostic scoring scheme for a study methods test, Calif. J. Ed. Res. Address: Dept. of Education, University of California, Berkeley, Calif. 94720.

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Am. Psychologist; co-auth, Comparison of chloropromazine and reserpine in chronic psychosis, Am. Med. Asn. Arch. Neurol. & Psychiat. Address: P.O. Drawer 448, Huntington, W.Va. 25709.

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CARTER, PROF. JOHN THOMAS, b. Mantee, Miss, Dec. 16, 21; m. 46; c. 2. EDUCATIONAL PSYCHOLOGY, COUNSELING. B.S, Miss. State, 47; M.S, Tennessee, 48; Ed.D.(ed), Illinois, 54. Prin. & teacher, elem. sch, Miss, 47; Vet. on farm supvr, Oktibbeha County Bd. Ed, 47-48; teacher, Wood Jr. Col, 48; teacher & farm. supt, Clarke Mem. Jr. Col, 48-56; PROF. ED. PSYCHOL, SAMFORD, 56- Consult, Stockham Valves & Fittings, 60-62; consult. & vis. lectr, Hong Kong Baptist Col, 65-66; consult. to Fayette County & St. Clair County teachers, 67- U.S.A, 42-45, Sgt. Nat. Ed. Asn; Adult Ed. Asn. Programs of agricultural instruction in junior colleges; effectiveness of modern mathematics programs in elementary school; methods of selecting teacher candidates; use of sleep teaching in learning foreign languages. Publ: East is west, Convention Press, 65; Teacher's guide, Baptist Mission Bd, 65; Programs of agriculture in junior colleges of the United States, Jr. Col. J, 54. Address: 2561 Rocky Ridge Rd, Birmingham, Ala. 35243.

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CARTER, PROF. L(UTHER) CLYDE, JR, b. St. Paul, Va, Nov. 25, 16; m. 43; c. 2. SOCIOLOGY. B.A, Carson-Newman Col, 38; B.D, Union Theol. Sem, 41; Ph.D.(ethics), Yale, 55. PROF. SOCIOL, MARY WASHINGTON COL, VIRGINIA, 48- Lectr, Nat. Sci. Found. Anthrop. Inst, Colorado, summer, 62. U.S.N.R, 43-46, Capt. Sociol. Asn; Acad. Polit. & Soc. Sci; Anthrop. Asn. Race relations; social ethics; sociology of religion. Address: 1217 Brent St, Fredericksburg, Va. 22401.

CARTER, MELVIN W(INSOR), Exp. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CARTER, PROF. MILLARD TENNYSON, b. Portsmouth, Va, Sept. 14, 09; m. 37; c. 3. AGRICULTURAL ECONOMICS, AGRONOMY. B.S, Va. State Col, 32; M.S, Cornell, 35; Iowa State Col, 36. Instr. agr. eng, VA. STATE COL, 32-36, asst. prof, AGR. ECON, 36-42, ASSOC. PROF, 42-, SUPT, EXP. STA, 38- Soc. Agron. Crop science; farm management. Publ: Co-auth, Effects of variety, dates and rates of planting on yield of soybeans, 60, auth, Effects of placement of fertilizer on stand, growth, maturity, and yield of corn, 11/63 & co-auth, Evaluation of turf grass for Virginia, 9/67, Va. Polytech. Address: Dept. of Agricultural Economics, Virginia State College, Petersburg, Va. 23803.

CARTER, PROF. RICHARD F(REMONT), b. Benton, Wis, Sept. 9, 28; m. 62; c. 1. COMMUNICATION. B.S, Wisconsin, 53, M.S, 54, Ph.D.(mass commun), 57. Res. assoc. commun, Stanford, 57-59, asst. prof, 59-65; assoc. prof. journalism, Wisconsin, 65-67; PROF. COMMUN, WASHINGTON (SEATTLE), 67- U.S.A, 46-48. AAAS; Asn. Ed. Journalism; Sociol. Asn; Asn. Pub. Opinion Res. Communication theory; research methodology; school-community relations. Publ: Voters and their schools, 60 & co-auth, Structure and process of school-community relations, 66, Stanford. Address: School of Communications, University of Washington, Seattle, Wash. 98105.

CARTER, PROF. RICHARD L(ESTON), b. Boston, Mass, Apr. 30, 22; m. 54. MATHEMATICAL STATISTICS. S.B, Mass. Inst. Tech, 47; M.S, Southern Methodist, 54; Ph.D.(math. statist), North Carolina, 57. Chem. engr, Carter's Ink Co, Mass, 47-49; res. assoc. geochem, Boston, 49-51; statist. engr. Res. Inc, Tex, 51-54; asst, North Carolina, 55-57; assoc. prof. indust. eng, Ill. Inst. Tech, 57-60; PROF. MGT, RENSSELAER POLYTECH, 60- Asst. dir, N.C. opers. anal. unit, U.S.A.F, 56-57. Statist. consult, Parmly Found. Auditory Res, Ill, 58-60. U.S.A, 43-46, Res, 46-51, 2nd Lt. Inst. Math. Statist; Am. Statist. Asn; Inst. Indust. Eng; Biomet. Soc; Inst. Mgt. Sci; Opers. Res. Soc. Am; Chem. Soc; Economet. Soc; fel. Royal Statist. Soc; Brit. Oper. Res. Soc; Soc; Indian Statist. Inst. Mathematical statistics and programming; design and analysis of experiments; applications to geochemistry, mineral exploration and psychoacoustics; industrial engineering; operations research; computers and data processing. Address: School of Management, Rensselaer Polytechnic Institute, Troy, N.Y. 12181.

CARTER, DR. ROBERT NEWTON, b. Athens, Ga, Mar. 30, 35; m. 59; c. 1. MARKETING. B.B.A, Georgia, 60, M.B.A, 62; Ph.D.(bus, econ), Florida, 65. Assembly technician, Westinghouse Elec. Corp, 58-61; teacher, high sch, Ga, 61-62; instr. mkt, Florida, 62-65; asst. prof. mkt, Texas, Arlington, 65-67; ASSOC. PROF. BEHAV. THEORY & MKT, GEORGIA, 67- U.S.M.C, 54-56. Mkt. Asn. Consumer and human motivation and learning; perception; persuasion. Publ: Motivation, the teaching machine and learning, Personnel J, 3/66; Consumer sensitivity to business communication, South. J. Bus, 1/67. Address: Dept. of Marketing, School of Business, University of Georgia, Athens, Ga. 30601.

CARTER, PRES. ROBERT S(CRIVEN), b. Olyphant, Pa, Oct. 9, 15; m. 40; c. 1. PSYCHOLOGY. B.S, Bucknell, 37, M.S, 42; Ph.D, N.Y. Univ, 50. Asst. prof. psychol, Westminster Col, 47-49; Denison, 49-51, assoc. prof, 51-56, prof, 56-65; PRES, SLIPPERY ROCK STATE COL, 65- U.S.N.R, 42-45. Psychol. Asn. Learning theory; achievement testing; school learning. Publ: Non-intellectual variables involved in teachers' marks, J. Ed. Res; Reduction of typing errors through post hypnotic suggestion, J. Denison Sci. Labs; Studies in validity: how invalid are marks assigned by teachers? J.Ed. Psychol. Address: President's Office, Slippery Rock State College, Slippery Rock, Pa. 16057.

CARTER, PROF. ROY E(RNEST), JR, b. Ulysses, Kans, Apr. 7, 22; m. 48; c. 3. SOCIOLOGY. B.A, Ft. Hays Kans. State Col, 48; M.A, Minnesota, 51; Kellogg Found. fel, Stanford, 52-53, Ph.D.(sociol, journalism, psychol), 54. Assoc. prof. journalism & chmn. dept, Ohio Wesleyan, 51-52; acting assoc. prof, Stanford, 52-54; assoc. prof. & res. assoc, inst. res. soc. sci, North Carolina, 54-56, prof. & res. prof, 56-58; PROF, MINNESOTA, MINNEAPOLIS, 58-61, JOURNALISM & SOCIOL, 61-, dir. commun. res. div, 58-66. Lectr. commun. & pub. opinion, U.S. Dept. State Prog, Chile & Ecuador, 61; vis. prof, Chile, 62-63; Concepción, 64 & 66-68. Consult, 54-; res. consult, Inland Daily Press Asn, 60-61. Fel. Sociol. Asn; Asn. Pub. Opinion Res; Asn. Ed. Journalism; Mkt. Asn; Statist. Asn. Process and effects of mass communication; social psychology. Publ: The North Carolina Press-Medical Study; Field methods, In: Introduction to mass communications research; Some patterns of mass media use in Santiago de Chile, Journalism Quart. Address: Dept. of Sociology, University of Minnesota, Minneapolis, Minn. 55455.

CARTER, PROF. THOMAS MILTON, b. Chaplin, Ky, Feb. 29, 88; m. EDUCATIONAL PSYCHOLOGY. A.B, Ill. Wesleyan, 14; S.T.B, Garrett Biblical Inst, 17; A.M, Northwestern, 21; Ph.D.(ed. psychol), Chicago, 23. Student dir, Hamline, 19-20; prof. ed. & head dept. ed. & psychol. ALBION COL, 23-66, EMER. PROF. IN RESIDENCE, 66- U.S.A, 18-19, 42-46, Col. AAAS; Psychol. Asn. Anatomical and mental development of children and adolescents; psychology of school subjects; attitudes and problems of college students. Publ: Professional immunity for guidance counselors, Guid. J, 11/54 & In: Guidance readings for counselors, Rand McNally, 60; Placement of qualified college graduates in appropriate careers, Personnel J, 2/64; The name of progressive education taken in vain, Sch. & Soc, 2/66. Address: 410 Elizabeth St, Albion, Mich. 49224.

CARTER, PROF. WILBERT K(ENNITH), b. Grey Cliff, Mont, Feb. 4, 16; m. 44; c. 3. ANTHROPOLOGY. A.B, Harvard, 50, A.M, 54. From lectr. to ASST. PROF. SOCIOL. & ANTHROP, TUFTS, 52-, DIR. BIO-MECHS. LAB, 55- Field dir, Arctic Alaskan exped, Peabody Mus, Harvard, 51-53. U.S.N, 41-46, Lt. Comdr. AAAS; Anthrop. Asn; Soc. Archaeol. Human factors in aviation, especially in flights of long duration and high altitude; archaeology of the Arctic; etho-history of North America and Central America. Address: Dept. of Sociology, Tufts University, Medford, Mass. 02155.

CARTER, PROF. WILLIAM A(MBROSE), b. Washington, D.C, Jan. 15, 99. ECONOMICS. A.B, Dartmouth Col, 20; A.M, Missouri, 28; Princeton, 31-32. Instr. econ, Dartmouth Col, 28-31, 33-34; Princeton, 31-32; econ. analyst, Nat. Recovery Admin, 34-35; asst. prof. econ, DARTMOUTH COL, 36-39, prof. econ, 39-65, chmn. dept, 45-49, div. soc. sci, 52-55, cmt. ed. policy, 55-59, EMER. PROF. ECON, 65- Faculty mem, North. New Eng. Sch. Banking, 60-, dir, 60, 63 & 66; lectr, Dartmouth Col, 66; economist, U.S. Geol. Surv, D.C, 67-; Stephen B. Monroe prof. money & banking, Kalamazoo Col, 68. Consult, bd. trustees, Kimball Union Acad, N.H, 67- Guest ed, Antitrust Bull, 66. U.S.A, 18, 2nd Lt. AAAS; Econ. Asn; Finance Asn; Acad. Polit. & Soc. Sci. Monopoly and monopolistic competition; government control of corporate enterprise; money and banking. Publ: World gold production and the money supply, J. Finance, 63; Commercial banking and the antitrust laws, 66 & Bank mergers: the new law and renewed litigation, 67, Antitrust Bull. Address: Robert Frost Lane, Etna, N.H. 03750.

CARTER, DR. WILLIAM E, b. Dayton, Ohio, Apr. 29, 27; m. 54; c. 3. CULTURAL ANTHROPOLOGY. A.B, Muskingum Col, 49; S.T.B, Boston, 55; M.A, Columbia, 58, Nat. Inst. Ment. Health & univ. fels. & Ph.D.(Bolivian agrarian reform), 63. Instr. culture change, Nat. Sch. Soc. Work, Bolivia, 60-61; asst. prof. ANTHROP, FLORIDA, 62-67, ASSOC. PROF, 67-, Soc. Sci. Coun. res. grant, summer 68. Res. assoc, bur. appl. soc. res, Columbia, 62-63; vis. assoc. prof, Washington (Seattle), 66. Aymara Indians; South American protestants; Guatemalan Kekchi horticulturalists; Bolivian national culture. Publ: The first book of South America, 62 & The first book of Bolivia, 63, Watts; Aymara communities and the Bolivian agrarian reform, Univ. Florida, 65. Address: Dept. of Anthropology, University of Florida, Gainesville, Fla. 32601.

CARTER, DEAN W(ILLIAM) HARRISON, b. Gloucester, N.J, Apr. 20, 05; m. 31; c. 1. ECONOMICS. A.B, Amherst Col, 26; A.M, Harvard, 30, Ph.D, 32. Instr, Amherst Col, 27-28; Brown, 30-31; econ, CONNECTICUT, 31-33, asst. prof, 33-39, assoc. prof, 39-42, prof, 42-66, head dept, 45-54, dean COL. LIB. ARTS & SCI, 54-66, EMER. DEAN, 66- Econ. Asn; fel. Royal Econ. Soc. International economic relations. Publ: Co-auth, Intermediate economic analysis & Economic geography. Address: 21 Hillside Circle, Storrs, Conn. 06268.

CARTER, DR. WILMOTH A(NNETTE), b. Reidsville, N.C, May 27, 16. SOCIOLOGY. A.B, Shaw, 37; M.A, Atlanta, 43; Rosenwald fel, 47-48; Chicago, 47-49, Ph.D, 59. Instr. sociol, J.C. Smith Univ, 50; assoc. prof, Shaw, 50-63; chmn. dept, New Orleans Center, Southern Univ, 63-64; res. fel. race rels, Michigan, 64-65; Tuskegee Inst, 65-66; DIR. DIV. SOC. SCI, SHAW, 66- Sociol. Asn. Structure and function of minority groups. Publ: Negro main street as a symbol of discrimination; The urban Negro in the South, Vantage; The new Negro of the South, Exposition, 67. Address: Division of Social Science, Shaw University, Raleigh, N.C. 27602.

CARTERETTE, PROF. EDWARD CALVIN, b. Mt. Tabor, N.C, July 10, 21; m. 55. PSYCHOLOGY. B.A, Chicago, 49; B.A, Harvard, 52; M.A, Indiana, 54, Nat. Sci. Found. fel, 55-56, Ph.D, 57. Res. mem, acoustics lab, Mass. Inst. Tech, 52; asst, hearing & commun. lab, Indiana, 53-56; instr. PSYCHOL, CALIFORNIA, LOS ANGELES, 56-57, asst. prof, 58-63, assoc. prof, 63-67, PROF, 68- Nat. Sci. Found. fel, Royal Inst. Tech, Stockholm & Cambridge Univ, 60-61, sr. fel, inst. math studies soc. sci, Stanford, 65; vis. prof, California, Berkeley, 66. Mem, Woodrow Wilson Nat. Fel. Found. Selection Cmt, Region XV, 63-, chmn, 66- U.S.A, 37-46, Res, 56-, Lt. Col. Psychol. Asn; Acoustical Soc; Inst. Math. Statist; Psychomet. Soc; Psychonomic Soc. Communication and language; hearing and speech perception; sensory psychophysiology; mathematical psychology; psychoacoustics. Publ: Brain function: speech, language and communication, Univ. California, 66. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

CARTERETTE, DR. TERESA SOSA, b. New York, N.Y, Apr. 12, 22. PSYCHOLOGY. A.B, Chicago, 47; M.S, Indiana, 57, Ph.D.(psychol), 60. Nat. Acad. Sci-Nat. Res. Coun. res. assoc, Air Force Cambridge Res. Center, 59-60, res. psychologist, oper. applns. lab, 60-61; res. assoc, inst. psychol. res, Tufts, 61-64; ASSOC. PROF. EXP. PSYCHOL. & STATIST, SIMMONS COL, 64- Int. Bus. Mach. Corp. res. assoc, comput. center, Mass. Inst. Tech, 63-64; Nat. Sci. Found. res. grant, 66-67. Psychol. Asn; Statist. Asn. Mathematical models in learning, memory and perception. Address: Dept. of Psychology, Simmons College, 300 The Fenway, Boston, Mass. 02115.

CARTIER, DR. FRANCIS A(RTHUR), b. Sacramento, Calif, July 17, 24; m. 47; c. 2. COMMUNICATION, LINGUISTICS. B.A, Southern California, 47, M.A, 48, Ph.D.(speech sci, phonetics), 51; London, 49-50. Teaching asst. speech, Southern California, 48-49; lectr. phonetics, Trinity Col.(London), 49-50; res. technician, State of Calif, 50-51; asst. prof. speech, Fla. State Univ, 51-54; assoc. prof. commun, Air Univ, 54-57, prof, 57-63; sr. res. scientist, Am. Inst. Res, 63-64; CHIEF COURSE DEVELOP. DIV, DEFENSE LANG. INST, ENG. LANG. SCH, U.S. DEPT. AIR FORCE, 64- Assoc. prof. lectr, George Washington Univ. Resident center, Maxwell Air Force Base, 62-63. Ed, J. Commun, 52-55; J.Nat. Soc. Programmed Instr, 67- U.S.A.A.F, 43-45, 1st Lt. Psychol. Asn; Speech Asn; Teachers of Eng. to Speakers of other Lang. Communication; English as a foreign language; programmed instruction. Publ: The phonetic alphabet, W.C. Brown, 54; co-auth, Foundations of air power, 58 & auth, The Air Force staff officer, 61, Govt. Printing Off. Address: 7415 Buckskin Lane, San Antonio, Tex. 78227.

CARTTER, DR. A(LLAN) M(URRAY), b. Westfield, N.J, June 17, 22; m. 43. ECONOMICS. B.A, Colgate, 46; M.A, Yale, 49, Sterling fel, 50-51, Ph.D, 52; Cambridge, 50, 51. Instr. econ, Colgate, 46-48, asst. prof, Duke, 52-56, assoc. prof, 56-58, prog. assoc, Ford Found, 58-59, prof. econ. & dean grad. sch, 59-63; v.pres. & dir. cmn. plans & objectives higher ed, Am. Coun. Ed, 63-65; CHANCELLOR & EXEC. V.PRES, N.Y. UNIV, 66- Mem, President's High Level Econ. Team to Indonesia, 61; manpower statist. task group, President's Sci. Adv. Cmt, 63-65; exec. cmt, Cmn. Human Resources & Adv. Ed, 63-; bd. dir, Fund Theol. Ed, Inc, 64-; bd. dir, Teachers Ins. & Annuity Asn, 67- Ed, Educational Record, 65-66. U.S.A. 42-45. AAAS: Econ. Asn; Indust. Rels. Res. Asn. Tax policy; business cycles. Publ: Auth. Theory of wages and employment, 59 & co-auth, Labor economics: wages, employment and trade unionism, 66, Irwin; auth, Assessment of quality in graduate education, Am. Coun. Ed, 66. Address: 34 W. 11th St, New York, N.Y. 10011.

CARTWRIGHT, PROF. DESMOND S(PENCER), b. London, Eng. Oct. 27, 24; m. 53; c. 2. PSYCHOLOGY. Ph.D.(psychol), Chicago, 54. Instr. PSYCHOL, Chicago, 54-55, asst. prof, 55-60; assoc. prof, COLORADO, 60-65, PROF, 65- Ed, Multivariate Behav. Res, 64- Brit. Army, 42-48, Capt. Psychol. Asn; Sociol. Asn; Soc. Multivariate Exp. Psychol; Soc. Criminol. Multivariate analysis of socio-behavioral systems. Publ: Membership in cliques and achievement, Am. J. Sociol; Multivariate analysis of gang delinquency. I Ecologic influences, Multivariate Behav. Res, 66; Ecological variables, In: Sociological methodology, Am. Sociol. Asn, 68. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

CARTWRIGHT, DR. DORWIN, b. Des Moines, Iowa, Mar. 3, 15; m. 38; c. 3. PSYCHOLOGY. A.B, Swarthmore Col, 37; A.M, Harvard, 38, Ph.D.(psychol), 40. Gen. Ed. Bd. fel, Iowa, 40-41; study dir, div. prog. surv, U.S. Dept. Agr, D.C, 42-44, res. dir, 44-45; asst. prof. psychol, res. center group dynamics, Mass. Inst. Tech, 45-47, assoc. prof. & dir. dept, 47-48; assoc. prof. PSYCHOL, MICHIGAN, 48-51, PROF, 51-, RES. COORDINATOR. RES. CENTER GROUP DYNAMICS, 60-, dir, 48-60. Fel, Center Adv. Study Behav. Sci, 60-61. Mem, Ed. Cmt. Human Rels; chmn. soc. sci. res. rev. cmt, Nat. Inst. Ment. Health, 67- Fel. Psychol. Asn; Sociol. Asn. Group psychology; human motivation; public opinion. Publ: Co-auth, Group dynamics; auth, Studies in social power; co-auth, Structural models, Wiley, 65. Address: Research Center for Group Dynamics, University of Michigan, Ann Arbor, Mich. 48106.

CARTWRIGHT, DR. MARGUERITE D, Inter-Group Rels, see 10th ed, Soc. & Behav. Vols.

CARTWRIGHT, DEAN PHILIP W, b. Pasadena, Calif, Mar. 24, 19; m. 41; c. 4. ECONOMICS. A.B, Stanford, 40, A.M, 42, Ph.D, 50. From asst. prof. to PROF. ECON, WASHINGTON (SEATTLE), 47-, DEAN COL. ARTS & SCI, 66-, assoc. dean, 60-66. Ford faculty fel, 59-60. Mem, Wash. State Tax Adv. Coun, 66- U.S.N.R, 42-46. Econ. Asn. Economic theory; regional economics. Publ: Unemployment compensation and the allocation of resources; Deficits, surpluses and national income; a comment; Guaranteed annual wage. Address: Dept. of Economics, University of Washington, Seattle, Wash. 98105.

CARTWRIGHT, DR. ROSALIND D(YMOND), b. New York, N.Y, Dec. 30, 22; m. 53; c. 2. PSYCHOLOGY. B.A, Toronto, 45, M.A, 46; Ph.D.(psychol), Cornell, 49. Instr. sociol, Cornell, 48-49; asst. prof. PSYCHOL, Mt. Holyoke Col, 49-51; res. assoc, Chicago, 51-60; vis. lectr. & res. assoc, Colorado, 60-62; assoc. prof, COL. MED, ILLINOIS, CHICAGO, 62-66, PROF, 66- AAAS; fel. Psychol. Asn; Asn. Psychophysiol. Study Sleep. Psychotherapy: interpersonal relations; sleep and dreaming. Publ: Psychotherapy and personality change, Univ. Chicago, 54; Dream and drug-induced fantasy behavior, 66 & Individual differences in response to REM deprivation, 67, Arch. Gen. Psychiat. Address: Dept. of Psychology, University of Illinois College of Medicine, Chicago, Ill. 60612.

CARTWRIGHT, DR. WALTER J(OSEPH), b. Carona, Kans, Apr. 26, 22; m. 48; c. 2. SOCIOLOGY. B.A, Southern Methodist, 43, B.D, 46; M.A, Texas, 60, Ph.D.(sociol), 64. Pastor, Methodist Churches, East & Southwest Tex, 44-62; asst. prof. SOCIOL, TEX. TECH. COL, 62-65, ASSOC. PROF, 65-, CHMN. DEPT. SOCIOL. & ANTHROP, 68- Asst, Texas, 61-62; Tex. Tech. Col. Organized Res. grants, summers 64 & 65; Off. Econ. Opportunity res. grant, 66-67. Mem, Gov. Cmt. on Aging, Tex, 67-68. Sociol. Asn; Law & Society Asn. Tri-ethnic sample in study of problems of poverty, migration, pre-school children and the aged. Publ: Cooperation and its religious opponents, Relig. Ed, 1/66; The cedar chopper, Southwest. Hist. Quart. 10/66; co-auth, Rent subsidy and housing satisfaction, Am. J. Econ. & Sociol, 4/68. Address: Dept. of Sociology, Texas Technological College, Lubbock, Tex. 79409.

CARTWRIGHT, WILLENA DUTCHER, b. Denver, Colo, July 8, 10; m. 48. ANTHROPOLOGY. B.A, Cornell, 41. Head sci. dept, Newark Mus, N.J, 41-47; curator Am. Indian art, Denver Art Mus, Colo, 47-55; curator State Mus, State Hist. Soc, Colo, 55-62; RETIRED. Secy. & ed, Clearing House West. Mus. Mem, Int. Cong. Anthropologists & Ethnologists: Int. Cong. Americanists. Anthrop. Asn; Archaeol. Inst. Publ: Peyote cult, Denver Art Mus; The Indians of Colorado, State Hist. Soc. Colo; Variations in American Indian beadwork designs, Proc. Int. Cong. Americanists. Address: 4130 S. Galapago St, Englewood, Colo. 80110.

CARUTH, DR. CLIFTON J(AMES), b. Los Angeles, Calif, Sept. 17, 25; m. 65; c. 2. PSYCHOLOGY, SOCIOLOGY. B.A, Redlands, 50; Ph.D, Southern California, 61. Child psychologist, outpatient clin, Mt. Sinai Hosp, Los Angeles, Calif, 53-55; clin. psychologist, South Parks Neurol. Center & Sherwood-Trimble Med. Clin, 55-56; Los Angeles State Ment. Hyg. Clin, 56-57, chief clin. psychologist & dir. training, 58-66; SUPVR. ATTEND. STAFF, LOS ANGELES PSYCHIAT. SERV, 66- Private practice, 59-; instr, Los Angeles, div, Columbia Col.(Ill), 56-59, mem. bd. trustees, 59-; dir. eval. serv, Mgt. Counsr. Assocs, 62- Clin. psychol. trainee, Vet. Admin. Hosps, Calif, 52-56. Consult, Masonic Home Children, 53-56; Santa Monica Sch. Dist, Calif, 59; Los Angeles City Schs, 62-; consult. & attend. staff, Gateways Hosp, Los Angeles, 62-64. Mem. staff & bd. dirs, Psychol. Center, 66- U.S.N.R, 44-46. Psychol. Asn. Parent-group conferences as delinquency prevention: clinical implications of verbal learning without awareness; subliminal factors in psychotherapy; personality theory; theory and techniques of psychotherapy; management consultation. Address: 360 N. Bedford Dr, Beverly Hills, Calif. 90210.

CARVER, DR. ROBERT BRADLEY, b. Harvey, Ill, July 13, 20; m. 56; c. 4. SOCIOLOGY. A.B, Notre Dame, 43; M.A, Pittsburgh, 47, Ph.D.(sociol), 53. Civilian ed. adv, U.S. Dept. Army, 53-55; ASSOC. PROF. SOCIOL, JOHN CARROLL, 55- Nat. Sci. Found. summer fel. anthrop, 62. U.S.A, 43-45; Air Nat. Guard, Maj. Nat. Conf. Family Rels. Marriage and the family: anthropology. Address: Dept. of Sociology, John Carroll University, University Heights, Cleveland, Ohio 44118.

CASADAY, PROF. L(AUREN) W(ILDE), b. Calif, July 3, 05; m. 29; c. 2. ECONOMICS. A.B, California, Los Angeles, 27; fel, California, 28-31, Ph.D, 37. Prof, Santa Clara, 32-37; vis. lectr, Hawaii, 37-38; economist, U.S. Maritime Labor Bd, D.C, 38-41; from sr. analyst to chief econ. analyst, off. int. finance, U.S. Dept. Treasury, 41-49; PROF. ECON. & DIR. BUR. BUS. & PUB. RES, ARIZONA, 49- Assoc. economist, State Emergency Relief Admin, Calif, 34-35; U.S. Treasury attache & spec. asst. to ambassador to Court of St. James, U.S. Embassy, London, 41-44; chief Brit. Empire sect, off. int. finance, U.S. Dept. Treasury, D.C, 44-45; asst. to U.S. Treasury attache, U.S. Embassy, Chungking, 45; from financial adv. to chief financial adv. to commanding gen, U.S. Armed Forces & Mil. Govt, Seoul, Korea, 45-46; rep, U.S. Dept. Treas. Spec. Mission, Siam, 46, U.S. Embassy, Nanking & U.S. Consulate-Gen, Shanghai, 46-49. Mem. joint cmn. econ. & financial probs, U.S. Occup. Authorities & U.S.S.R. Occup. Authorities, Seoul, Korea, 46; econ. adv. to U.S. del. econ. cmn. for Asia & Far East, UN, Shanghai, 47; mem. exec. cmt, Nat. Assoc. Univ. Burs. Bus. & Econ. Res, 56-61, v.pres, 60-61, pres, 61-62; mem. exec. cmt, Gov. Ariz-Mex. West Coast Trade Cmn, 59- Mem. tech. secretariat, Int. Monetary Conf, Bretton Woods, N.H, 44- Econ. Asn. Regional and international economics. Publ: Disbursements of two-hundred eighteen middle income Honolulu families; Eloy: a cotton town in transition, Ariz. Rev; Tucson-boom city in a booming state, Ariz. Hwys. Address: Dept. of Economics, University of Arizona, Tucson, Ariz. 85721.

CASAGRANDE, PROF. JOSEPH B(ARTHOLOMEW), b. Cincinnati, Ohio, Feb. 14, 15; m. 45; c. 4. ANTHROPOLOGY. B.A, Wisconsin, 38, univ. scholar,

38-39; univ. fel, Columbia, 40-41, Soc. Sci. Res. Coun. fel, 46-47, 48-49, Ph.D.(anthrop), 51. Instr. anthrop, Rochester, 49-50; mem. staff, Soc. Sci. Res. Coun, 50-60; PROF. ANTHROP, ILLINOIS, URBANA, 60-, head dept, 60-67. Adj. assoc. prof, American Univ, 54-57; Nat. Sci. Found. grant, 66-68. Mem. bd. dirs, Soc. Sci. Res. Coun, 62-64; adv. panel anthrop, Nat. Sci. Found, 64-65, adv. cmt. soc. sci, 66-; behav. sci. study sect, Nat. Insts. Health, 65- Staff secy, Int. Cong. Americanists, 49. U.S.A, 42-46, 1st Lt. Fel. Anthrop. Asn; Ethnol. Soc.(v.pres. & pres, 62-64); Soc. Appl. Anthrop; Ling. Soc; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. North American Indians; ethnolinguistics; psycholinguistics; personality and culture; culture change; ethnoscience; Ecuadorian culture and society; history of anthropology; field research methods. Publ: Ed, In the company of man: twenty portraits by anthropologists; auth, Comanche linguistic acculturation, Int. J. Am. Ling: co-auth, Function of language classifications in behavior, In: Readings in social psychology. Address: Dept. of Anthropology, 109 Davenport Hall, University of Illinois, Urbana, Ill. 61801.

CASAS, DR. EDUARDO FERNANDO, b. Havana, Cuba, Jan. 11, 28; m. 56; c. 4. PSYCHOLOGY. LL.D, Havana, 51, Ph.D.(philos), 58; Lic.Ps, Univ. Santo Tomás Villanueva, 60. Clin. psychologist, Hosp. Mercedes, 57-59; chief clin. psychologist, Child Guid. Clin, Havana, 59-61; psychologist, dept. ed. psychol, Ministry of Ed, Cuba, 61-66; asst. prof. PSYCHOL, OTTAWA, 66-68, ASSOC. PROF, 68- Prof, Havana, 63-65. Am. Psychol. Asn; Can. Psychol. Asn; Interam. Soc. Psychol. Projective techniques; perception and personality; counselling; philosophy of science. Publ: Empirical and rational psychology, Univ. Havana, 58; Weakening the sound image in learning words, Vol. 1, No. 3 & Learning and behavior problems in first graders, Vol. 2, No. 7, Psicologia y Educacion. Address: Faculty of Psychology, University of Ottawa, 135 Wilbrod, Ottawa 2, Ont, Can.

CASBY, DEAN LORRAINE, b. U.S, May 19, 25. ECONOMICS. B.S, Winona State Col, 45; M.A, Nebraska, 47, regents fel, 49-50, Ph.D, 50; Minnesota & Chicago, 48-49; Univs. London, Paris & Heidelberg, 51-52. Lectr. hist, Nebraska, 45-49, asst. instr, 49-50; assoc. prof. & head dept, York Col, 50-51, 52-54; assoc. prof. hist. & econ, Polytech. Inst, 55-57, chmn. dept. hist, 56-57; chmn. soc. sci. div, Inter-Am. Univ. P.R, 57-59, acting dean, 59-60, acad. dean 60-61, dean, 61-65; DEAN, WORLD UNIV. P.R, 65-, TREAS. & V.PRES, INT. ED. DEVELOP. SERV, 66- Guest lectr, Europe, 51-52; Fulbright fel, India, 61. Hist. Asn; Polit. Sci. Asn; Nat. Asn. For. Student Affairs. Impact of Gandhian principles upon present day India; economic planning; foreign policy; social science research in emerging areas. Publ: The politics of emerging areas; Alternatives to appeasement; India today. Address: World University, San Juan, P.R. 00917.

CASCINI, PROF. WILLIAM M, b. Schenectady, N.Y, June 18, 24; m. 48; c. 3. SOCIOLOGY. B.A, Asbury Col, 48; Elizabeth Iliff Warren fel. & Th.M, Iliff Sch. Theol, 53, Dempster fel. & Th.D, 55; N.Y. Univ, 55-57. Instr. SOCIOL, N.Y. Univ, 57; assoc. prof, NEBR. WESLEYAN, 57-63, PROF, 63-, CHMN. DEPT. SOCIOL. & ANTHROP. & CHMN. SOC. SCI. DIV, 64- Sociol. Asn. Publ: Attitudinal study of union, non-union and management; Methodist church members, Iliff Rev. Address: Dept. of Sociology, Nebraska Wesleyan University, Lincoln, Nebr. 68504.

CASE, PROF. EARL C(LARK), Geog, see 10th ed, Soc. & Behav. Vols.

CASE, PROF. FREDERICK EWING, b. Logansport, Ind, Mar. 20, 18; m. 47. URBAN ECONOMICS, MANAGEMENT. B.S, Indiana, 42, M.B.A, 48, D.B.A, (bus. admin, econ), 51. Instr. urban land & econ. & asst dean, Indiana, 46-50; asst. prof. URBAN LAND & ECON, Florida, 50-51; CALIFORNIA, LOS ANGELES, 51-55, assoc. prof, 55-61, PROF, 61-, asst. dean grad. sch. bus, 60-64. Res. awards, Fund for Repub, 57, Lincoln Found, 63, Ford Found. faculty res. award bus. admin, 64 & Schalckenbach Found, 66; vis. prof, Post-Grad. Inst. Bus. Admin, Italy & Rathmines Col, Ireland, 58. Mem, Outdoor Recreation Resources Rev. Cmn, 62. George Schmutz Nat. Mem. Award, Am. Inst. Real Estate Appraisers, 61. U.S.A, 42-46, Mil. Intel, Res. 46-47, Col. Finance Asn.(v.pres, 55-56); Regional Sci. Asn. Housing problems of minority families; identification and removal or urban blight; urban decay, poverty and municipal financing. Publ: Modern real estate practice, 56 & Real estate, 63, Allyn & Bacon; Real estate brokerage, Prentice-Hall, 65. Address: Housing, Real Estate & Urban Land Studies, 405 Hilgard, Room 1355, University of California, Los Angeles, Calif. 90024.

CASE, DR. H(AROLD) C(LAYTON) M, Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

CASE, PROF. HARRY WALTER, b. Searchlight, Nev, July 21, 08; m. 46. PSYCHOLOGY. A.B, California, Los Angeles, 35, M.A, 37, Ph.D.(psychol), 40. Asst, California, Los Angeles, 35-39, res. assoc, 40-41; assoc. psychol, Illinois, 41-42; asst. personnel mgr. eng, El Segundo Plant, Douglas Aircraft Co, Inc, 42-45; mgr. personnel res. dept, Webster Training Safeway Stores, Inc, 45-46; asst. prof. eng, CALIFORNIA, LOS ANGELES, 46-47, assoc. prof. ENG. & PSYCHOL, 47-52, PROF, 53-, ASST. DIR, INST. TRANSPORTATION & TRAFFIC ENG, 60-, acting dir, 59-60, dir. rehab, eng. prog, 56-58. Consult. to v.pres, Douglas Aircraft Co, Inc, 45-46; Los Angeles County Civil Serv. Cmn, 56- U.S.N, 41, Lt.(jg). Psychol. Asn; Soc. Eng. Ed. Clinical, personnel and industrial psychology; stuttering; traffic; governmental research. Address: Institute of Transportation & Traffic Engineering, Engineering III—5531, University of California, Los Angeles, Calif. 90024.

CASE, DR. H(ERMAN) M(ITCHELL), Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

CASE, DR. MAURICE, b. Rheins, France, July 4, 10; U.S. citizen; m. 36; c. 1. SOCIOLOGY. B.S, City Col. New York, 32; Columbia, 33-35; M.A, N.Y. Univ, 55, Ed.D.(spec. ed), 63. Adminstr. soc. serv, New York City Dept. Soc. Serv, 32-42; sr. soc. worker, N.Y. State Dept. Soc. Serv, 42-45, adminstr, N.Y. Asn. Blind, 45-55, mgr. recreation & camping serv, 55-65; asst. prof. health sci, Kingsborough Community Col, 66-67; CHMN. soc. sci. dept, STATE UNIV. N.Y. AGR. & TECH. COL. FARMINGDALE, 67-68, GEN. ED. DIV, 68- Lectr, Hunter Col, 59-64; Queensborough Community Col, 65-66. Secy, Coun. Soc. Agencies Blind, Greater N.Y, 60-63; mem. bd. trustees, N.Y. Asn. Sr. Citizens Centers, Inc, 63- Sociol. Asn; Nat. Asn. Recreation Ther; Nat. Asn. Soc. Workers. Psychological and sociological effects of visable human stigma and the effective fruitful methods for integrating the different into society. Publ: Recreation for blind adults, C.C. Thomas, 66; Orientation therapy-outdoor travel, Outlook for the Blind, 48; Organized camping for the blind, Recreation Mag, 52. Address: 35-44 169th St, Flushing, N.Y. 11358.

CASE, DR. RALPH THOMAS, b. Milnor, N.Dak, Dec. 14, 94; m. 19; c. 2. SOCIOLOGY. B.A, Parsons Col, 15; B.D, McCormick Sem, 19; summers, Chicago, 24, Northwestern, 26, 27, 28; Ph.D, Iowa, 29. Prof. Biblical lit, Wabash Col, 22-28; Bible & philos, Lindenwood Col, 29-37; pastorate, First Presby. Church, Blackwell, Okla, 37-39; prof. sociol. & head dept, Maryville Col, 39-68, chmn. div. soc. sci, 59-68; RETIRED. Rural Sociol. Soc. Rural life; sociology of religion. Publ: Study of the placement in the curriculum of selected teachings of the Old Testament Prophets. Address: 1036 Ray Ave, Maryville, Tenn. 37801.

CASEBIER, PROF. VIRGINIA ELEANOR, b. Burnt Prairie, Ill, Aug. 26, 18. ECONOMICS. B.S, Illinois, 47, M.S, 50; Ph.D, Northwestern, 57. Instr. & supvr. bus. ed, Southern Illinois, 49-53; asst. prof, Northwestern, 54-58; assoc prof. mgt. & finance, NORTHERN ILLINOIS, 58-67, PROF. STATIST, 67- Ford Found. summer res. grant, Indiana, 62; fel. statist, Harvard Bus. Sch, 63-64. Statist. Asn. Personnel management, especially women employed in business and the personnel problems of the small business firm. Publ: Managing women employees in small business. Address: 1007 S. Locust St, Champaign, Ill. 60115.

CASELLA, DR. CONO, b. Salerno, Italy, Mar. 27, 21; nat; m. 60. ECONOMICS. B.S, N.Y. Univ, 48, A.M, 49, Ph.D, 57. Asst. prof. econ, Marquette, 57-59; assoc. prof, LONG ISLAND, 59-63, ASSOC. DEAN GRAD. SCH. BUS, 63- Fulbright lectr, Hopkins Sch. Adv. Int. Studies, Bologna, 68-69. U.S.A.A.F, 42-46. Econ. Asn; Indust. Rels. Res. Asn. Economic history of Europe, especially development and growth of various national economics since 1870's; banking system of the United States. Publ: Analysis of the business recession & European economic community: dawn of a new era?, Marquette Bus. Rev; America's future economic problems, Econ. Develop. & Cultural Change. Address: 68-10 108th St, Forest Hills, N.Y. 11375.

CASETTI, DR. EMILIO, b. Rome, Italy, Jan. 31, 28; m. 53. GEOGRAPHY. Dr. Legge, Rome, 51; McGill, 58-60; Ph.D.(geog), Northwestern, 64. Asst. prof. MATH. METHODS IN GEOG, Toronto, 64-66; OHIO STATE, 66-67, ASSOC. PROF, 67- Statist. Asn; Regional Sci. Asn; Economet. Soc; Asn. Am. Geog. Classification problems; mathematical model of economic development; mathematical methods for optimal investment allocation; interrelationships among economic and demographic variables. Publ: Classification and regional analysis by discriminant iterations, Off. Naval Res. Geog. Br. Tech. Report 12, 64; Analysis of spatial association by trigonometric polynomials, 10: 199-204 & Urban population density patterns—an alternate explanation, 11: 96-100, Can. Geogr. Address: Dept. of Geography, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

CASEY, PROF. FLORENCE MARIE, b. New York, N.Y, Sept. 28, 36. POLITICAL SCIENCE. B.A, Hunter Col, 58; dipl, Inst. Polit. Studies, 62, Dr.(polit. sci), Sorbonne, 67. ASST. PROF. POLIT. SCI, STATE UNIV. N.Y. BUFFALO, 65- Ford Found. faculty fel, 68-69. Polit. Sci. Asn. International migrations; political acculturation of immigrants; population movements in Western Europe. Address: Dept. of Political Science, State University of New York at Buffalo, Buffalo, N.Y. 14214.

CASEY, DR. JOHN E(DWARD), b. Buffalo, N.Y, Aug. 25, 23; m. 47; c. 2. PSYCHOLOGY. B.S, New Mexico, 45; M.A, Kentucky, 47; Ed.D, Indiana, 53. Indust. psychologist, Utley Assocs, Ohio, 47; instr. psychol, Ore. State Col, 48-50; asst. prof, Colo. State Col, 53-55; res. asst, inst. res. except. children, Illinois, 55-56; ASSOC. PROF. PSYCHOL, EAST. WASH. STATE COL, 56- Psychol. Asn. Mentally retarded; psychological tests and measurements. Address: Dept. of Psychology, Eastern Washington State College, College of Education, Cheney, Wash. 99004.

CASH, DR. DORIS CAROLYN, b. Atlanta, Ga, Aug. 20, 37. ECONOMICS, URBAN ECONOMICS. B.B.A, Ga. State Col, 61, M.B.A, 63, D.B.A.(econ, pub. policy, finance), 65. Res. statistician, Tenn. Coal & Iron Div, U.S. Steel Corp, 61-62; asst. econ, Ga. State Col, 62-65; asst. prof. ECON, W.Ga. Col, 65-68; ASSOC. PROF, OGLETHORPE COL, 68- Vis. asst. prof, Mercer, summer, 64; res. consult, soil conserv. serv, econ. res. serv, U.S. Dept. Agr, 67-68. Mem. President's Cmt. Consumer Interests, Southeast. Region, 65. Econ. Asn. Quantitative measurement of levels of living and economic growth and development and its application to urban areas. Publ: Resource conservation and development: an evaluation of Gwinnett County, Georgia, 1967, U.S. Dept. Agr, (in press); Southeastern Constructors, Inc, Intercollegiate Case Clearing House, Harvard, 63, Intercollegiate Bibliog, 63; FHA's role in Atlanta's apartment boom, 1947-1963, Atlanta Econ. Rev, (in press). Address: Dept. of Economics, Oglethorpe College, Atlanta, Ga. 30319.

CASHIN, DR. JACK, b. Moravia, N.Y, May 6, 20; m. 45; c. 2. ECONOMICS. B.A, Texas, 49, M.A, 50, Ph.D.(finance & econ), 55. Instr, TEXAS, AUSTIN, 50-52, lectr, 52-53, from asst. prof. finance, ins. & real estate to LECTR. FINANCE & REAL ESTATE & STAFF DIR, 53- U.S.A.A.F, 46, Capt. Savings and loan; real estate; finance. Publ: History of savings and loan in Texas; Savings and loan activity in Texas, Comments. Address: 3215 Fairfax Walk, Austin, Tex. 78705.

CASKEY, DR. OWEN L(A VERNE), b. Corsicana, Tex, Mar. 10, 25; m. 47; c. 2. PSYCHOLOGY. B.S, Tex. Tech. Col, 47, M.Ed, 48; Ed.D, Colorado, 52. Instr. psychol. & counsr, Tex. Tech. Col, 47-50; asst. prof. psychol. & ed, Colorado State, 50-54, assoc. prof. psychol. & head psychol. serv. center, 55-58; indust. psychologist, Rohrer, Hibler & Replogle, 58-63; prof. psychol. & dir. counseling servs, Okla. State, 63-64; PROF. ED, TEX. TECH. COL, 64- Couns. psychologist, Vet. Admin. Hosps, Denver & Ft.

Lyon, Colo, 54. Consult, Dept. Health, Ed. & Welfare, 63-; U.S. Dept. Defense, 66; behav. sci. workshop, Far. E. div, Overseas Dependent's Schs, 66; Southwest. Coop. Ed. Lab, 66-; Southwest Ed. Develop. Lab, 67- Mem, Fulbright Selection Cmt. Grad. Study Psychol, Tokyo, 66. U.S.N, 42-46, Lt.(jg). Psychol. Asn; Personnel & Guid. Asn; Voc. Guid. Asn; Col. Personnel Asn; Asn. Counsr. Ed. & Supv. Early concept formation; value systems; consistency of judgements; retention in higher education; learning theory. Publ: Workbook in occupational information, Colo. State Univ, 53, 2nd ed, 55; Socio-cultural problems in the education of Spanish-American youth, W. Tex. Sch. Study Coun, 65; Guidance needs of Mexican American Youth, U.S. Off. Ed, 68. Address: School of Education, Texas Technological College, Lubbock, Tex. 79409.

CASKEY, DR. WAYNE F(ARLEY), Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

CASLER, DR. LAWRENCE R(AY), b. Portland, Ore, Jan. 26, 32; m. 57; c. 1. PSYCHOLOGY. B.A, Harvard, 53, M.A, 54; Nat. Sci. Found. fel, Columbia, 61, Ph.D.(soc. psychol), 62. Teacher, Montclair Acad, 54-55; Reese Sch, N.Y, 56-59; lectr. PSYCHOL, City Col. New York, 59-61, asst. prof, 63-66; lectr, Brooklyn Col, 61-62; staff ed, Int. Encyclop. Soc. Sci, 62-63; ASSOC. PROF, STATE UNIV. N.Y. COL. GENESEO, 66- Lectr, Long Island, 65; res. assoc, Wakoff Res. Center, N.Y, 65-66; State Univ. N.Y. res. grants, 67. U.S.A, 55-56. AAAS; Psychol. Asn; Parapsychol. Asn. Socio-psychological study of marriage and the family; determination of conditions leading to optimal development of human infants; psychosomatic aspects of aging; practical applications of learning theory. Publ: Maternal deprivation: a critical review of the literature, Monogrs. Soc. Res. Child Develop, 61; The effects of extra tactile stimulation on a group of institutionalized infants, Genetic Psychol. Monogrs, 65; Instrumental learning, In: Int. Encyclop. Soc. Sci, 68. Address: Dept. of Psychology, State University of New York College at Geneseo, Geneseo, N.Y. 14454.

CASNER, DR. DANIEL, Psychol, see 10th ed, Soc. & Behav. Vols.

CASON, DR. ELOISE B(OEKER), b. New York, N.Y, Sept. 20, 01; m. 23; c. 2. PSYCHOLOGY. A.B, Columbia, 21, A.M, 22, Ph.D.(ed. psychol), 42. Asst. psychol, Columbia, 22-23; instr. psychol. & ed, Syracuse, 23-26; sch. psychologist, pub. schs, N.Y, 26-30; Md, 40-45; dir. child guid, pub. schs, N.J, 45-64; CONSULT, CHILD GUID. CENTER HOUSTON, 67- Consult, elem. reading center, teachers guidance programs; special education. Publ: Mechanical methods for increasing the speed of reading: an experimental study at the third grade level, Teachers Col, Columbia, 43; Suggestions on the interaction between the school psychologist and the classroom teacher, J. Consult. Psychol; Reading for the slower learner, N.J. Ed. Rev. Address: Apt. 2005, 2505 Broadway, Houston, Tex. 77012.

CASO Y ANDRADE, DR. ALFONSO, b. Mexico City, Mex, Feb. 1, 96; m. 22; c. 4. ARCHAEOLOGY, SOCIAL ANTHROPOLOGY. B.S, Nat. Prep. Sch, Mex, 19; LL.B, Nat. Univ. Mex, 19, M.A, 24, Ph.D, 32; hon. Dr, Nat. Univ. Mex, 33, New Mexico, 42, Morelia, Mex, 46, Mérida, Mex, 48, California, Los Angeles, 67. Dir. law, Nat. Prep. Sch, 28; head dept. archaeol, Nat. Mus. Mex, 30-31, dir, 33-34; Nat. Inst. Anthrop. & Hist, 39-44; dir. gen, Higher Learning & Sci. Res, Mex, 44; rector, Nat. Autonomous Univ. Mex, 44-45; secy, Nat. Properties & Admin. Inspection, 46-48; DIR, NAT. INDIAN INST, 49- Vis. prof, Chicago, 43. Pres, Mex. Sci. Cong, 51. Medal Reconaisance Française, 47; Officer, French Legion of Honor, 52; comdr, Order of Northern Star, Sweden, 52; Viking Fund Medal & award, 52; Manual Avila Camacho award, Mex, 52; Medal Oaxaca, 60; comdr, Lanuza Order of Merit, Cuba; Premio Nacional, Mex, 60. Hon. mem. U.S. Nat. Acad. Sci; fel. Am. Anthrop. Asn; Am. Philos. Soc; hon. mem. Archaeol. Inst. Am; Mex. Nat. Acad. Sci.(pres, 17); Mex. Anthrop. Soc; Mex. Acad. Sci. Res; hon. fel. Royal Anthrop. Inst. Gt. Brit; hon. mem. French Soc. Americanists; Panama Acad. Hist; Bolivian Geog. Soc; German Folklore Soc; Swiss Soc. Americanists. Archaeology of Meso-America; social anthropology of Mexico. Publ: Comentarios a los codices Bodley 2858, Selden y Colombino; La Ceramica de Monte Alban, I.N.A.H. Memoria XIII, Mex, 67; Los Calendarios Prehispanicos, U.N.A.M, Mex, 67. Address: Instituto Nacional Indigenista, Avenida Revolución 1279, Mexico 20, D.F.

CASPARIS, DR. JOHN, b. Chur, Switz, May 13, 35; m. 62. SOCIOLOGY. B.A, North Carolina, 59; Ford Found. fel, Brown, 62-63, Ph.D.(sociol), 65. Asst. prof. SOCIOL, Central Michigan, 63-65; vis. asst. prof, Brown, 65-66; ASST. PROF, STATE UNIV. N.Y. BINGHAMTON, 66- Sociol. Asn; Pop. Asn. Demography and ecology; social organization. Publ: Metropolitan retail structure and its relation to population, In: Land Economics. Address: Dept. of Sociology, State University of New York at Binghamton, Binghamton, N.Y. 13901.

CASPER, PROF. BERENICE M(ARGARET), b. Bellwood, Nebr. GEOGRAPHY. B.Sc, Nebraska, 37, M.A, 42, Nystrom Mem. fel, 58-59, Delta Kappa Gamma Int. scholar, 58-59, Ed.D, 59. Teacher GEOG, jr. high sch, Lincoln, Nebr, 37-46; Pennsylvania, 47-48; from asst. prof. to PROF, TRENTON STATE COL, 48-, COORDINATOR GEOG, 65- AAAS; Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed; Regional Sci. Asn. Regional geography of Anglo America; climatology; educational and urban geography; regional and urban geography of New Jersey. Publ: Physical environment and man; Scope and sequence of geographic education in the modern school curriculum grades four through twelve; Geography of New Jersey, In: Grolier Encyclop, 67. Address: Dept. of Geography, Trenton State College, Trenton, N.J. 08625.

CASPERSON, DR. R(OLAND) C(ARL), b. New Britain, Conn, Dec. 30, 21; m. 44; c. 5. PSYCHOLOGY. A.B, Brown, 47, A.M, 48; Ph.D.(psychol), Hopkins, 50. Res. assoc, DUNLAP & ASSOCS, INC, 50-51, sr. res. assoc, 51-52, res. & prog. dir, 52-59, asst. v.pres. & assoc. dir. syst. div, 59-63, V.PRES. & DEP. DIR. BEHAV. SCI. DIV, 63- Lectr, Human Eng. Inst, 53-57. dir, 58. U.S.N, 43-46, Lt. Psychol. Asn; Illum. Eng. Soc; Human Factors Asn. Visual perception and display of information; systems analysis; psychophysics; human engineering; psychoacoustics, study of subjective response to environmental noise. Publ: Monocular and binocular intensity thresholds for field containing 1-7 dots & Visual discrimination of geometric forms, J. Exp. Psychol; Taxiway lighting, routing and destination marking system for airfields. Address: 2 Hazel Nut Rd, Westport, Conn. 06880.

CASS, PROF. DAL H(OLDEN), b. Howard, Kans, Aug. 3, 14. PSYCHOLOGY, COUNSELING. B.S, Kansas, 39, M.S, 45; Ed.D.(ed. psychol, counseling), Colorado, 57. Teacher, pub. schs, Kans, 39-42; psychometrist, Univ. Kansas, 45-46; instr. psychol, Missouri, Kansas City, 46-48; staff asst. purchasing, Boeing Airplane Co, 51-57; asst. prof. PSYCHOL, Washburn, 57-58, chmn. dept, 58-60; assoc. prof. & chmn. dept, Park Col, 60-61; asst. prof, KANSAS STATE TEACHERS COL, 61-63, assoc. prof, 63-66, PROF. & CHMN. DEPT, 66- U.S.A, 42-44, 2nd Lt. Am. Psychol. Asn; Nat. Coun. Measurement in Ed; Coun. Except. Children. Psychotherapy; school psychology; education of the gifted; ungraded classrooms. Publ: Co-auth, Cass-Sanders psychology test, Forms A&B, 64 & Forms C&D, 66, Kans. State Teachers Col. Address: Dept. of Psychology, Kansas State Teachers College, Emporia, Kans. 66801.

CASS, DR. DAVID, b. Honolulu, Hawaii, Jan. 19, 37; m. 59; c. 1. ECONOMICS. B.A, Oregon, 58; Ph.D.(econ), Stanford, 65. Asst. prof. ECON, YALE, 64-67, ASSOC. PROF, 67- Nat. Guard, 59-60, Res, 60-65, 1st Lt. Economet. Soc. Economic theory; mathematical economics and econometrics. Publ: Optimum growth in an aggregative model of capital accumulation, Rev. Econ. Studies, 7/65; co-auth, A reexamination of the pure consumption loans model, J. Polit. Econ, 8/66; auth, A turnpike theorem, Econometrica, 1/67. Address: Dept. of Economics, Yale University, 1303A Yale Station, New Haven, Conn. 06520.

CASS, PROF. LORETTA K(EKEISEN), Clin. Psychol, see 11th ed, Phys. & Biol. Vols.

CASS, PROF. WILLIAM A(VERY), b. Portland, Ore, Aug. 19, 17; m. 41; c. 2. CLINICAL PSYCHOLOGY. B.A, Pomona Col, 39; M.S, Oregon, 42; Ph.D, Stanford, 50. Asst. psychol, Oregon, 39-41; instr, Pomona Col, 41-42; Oregon, 46; clin. psychologist, Vet. Admin. Hosp, Palo Alto, Calif, 48-50; asst. prof. clin. psychol, Kansas, 50-53; DIR. STUDENT COUNSELING CENTER, WASHINGTON STATE, 53- Consult, Vet. Admin. Hosp, Spokane, Wash, 57- U.S.A.A.F, 42-43; U.S.A, 43-46, Capt. Psychol. Asn. Projective tests; psychotherapy; hypnosis. Address: Student Counseling Center, Washington State University, Pullman, Wash. 99163.

CASSADY, PROF. RALPH, JR, b. Vallejo, Calif, Dec. 30, 00; m. 27; c. 4. ECONOMICS. B.S, California, 24, fel, 26-27, M.S, 27, Ph.D, 30. Instr, Princeton, 27-28; with Paramount Pictures, 28-29; asst. prof. MKT, Minnesota, 30-36; from asst. prof. to PROF, CALIFORNIA, LOS ANGELES, 36-, dir. bur. bus. & econ. res, 49-68. Vis. prof, Western Australia, summer, 63. Econ. consult, Study of Traditional Mkts, Oaxaca, Mex, 64- Ed, J. Mkt, 47-51. Award, Am. Mkt. Asn, 52. Econ. Asn. Nature of competition; marketing law; business price policies. Publ: Price making and price behavior in the petroleum industry, Yale, 54; Competition and price making in food retailing, Ronald, 62; Auctions and auctioneering, Univ. California, 67. Address: Dept. of Marketing, University of California, Los Angeles, Calif. 90024.

CASSATT, DR. DONALD L, b. Werum, Jan. 13, 20; nat; m. 43; c. 2. PSYCHOLOGY. B.S, Pa. State Teachers Col, Ind, 42; M.Litt, Pittsburgh, 46, Ph.D, 50. Instr, Pittsburgh, 45-48; Vet. Admin. guid. counsr, 48-50; supvr. spec. ed, pub. schs, Mercer County, 50-53; Somerset county, 53-60; PROF. PSYCHOL, TOWSON STATE COL, 60- U.S.A, 42-45. Address: 320 Murdock Rd, Baltimore, Md. 21212.

CASSEL, DR. ROBERT H(OOD), b. Norristown, Pa, Feb. 5, 22; m. 52; c. 2. PSYCHOLOGY. Ph.B, Dickinson Col, 44; M.A, Pennsylvania, 47; fel, Vineland Training Sch, 52-53; Ph.D.(psychol), Northwestern, 57. Intern psychol, Vineland Training Sch, N.J, 47-48, res. psychologist, 48-50; lectr, Northwestern, 55; CHIEF PSYCHOLOGIST, Dixon State Sch, Ill, 55-60; PINECREST STATE SCHOOL, 60- Instr, eve. sch, Rockford Col, 55-60; lectr, La. Col, 61- Consult, St. Mary's Training School, La, 60- U.S.A, 43-46. Psychol. Asn; Asn. Ment. Deficiency; Soc. Res. Child Develop. Application of clinical and theoretical psychology to feeblemindedness. Publ: Vineland adaptation of the Oseretsky tests, Training Sch. Bull; Serial verbal learning and retroactive inhibition in aments and children, J. Clin. Psychol. Address: Pinecrest State School, Pineville, La. 71360.

CASSEL, PROF. RUSSELL N, b. Harrisburg, Pa, Dec. 18, 11; m. 51; c. 5. EDUCATIONAL PSYCHOLOGY. B.S, Pa. State Teachers Col.(Millersville), 37; M.Ed, Pa. State Col, 39; Ed.D.(ed. psychol), Southern California, 49. Assoc. prof. ed. psychol, San Diego State Col, 49-51; instr, Belleville Jr. Col, Ill, 52-55; Our Lady of Lake Col, 55-57; chief psychol. servs, pub. schs, Ariz, 57-59; child guid. consult, Fontana Unified Schs, 59-60; dir. pupil personnel servs, Lompoc Unified Schs, Calif, 60-62; adv. tests & res, U.S. Agency Int. Develop, Rep. of Viet-Nam, 62-64, Rep. of Liberia, 65-67; PROF. ED. PSYCHOL, WISCONSIN, MILWAUKEE, 67- Ed, U.S. Air Force Instrs. J, 52-55; Ed. on Aviation Ed, 54- U.S.A.F, 41-46, 51-57, Res. 57-, Col. Fel. Psychol. Asn; Nat. Coun. Measurement in Ed. Investigation of personality dynamics; development of instruments for assessing certain aspects of the personality; leadership studies relative to evaluation. Publ: The Cassel group level of aspiration test; Psychology of child discipline; Psychology of instruction. Address: 1402 W. Capitol Dr, Milwaukee, Wis. 53206.

CASSELLA, DR. WILLIAM N(ATHAN), b. Alton, Ill, July 14, 20; m. 46; c. 4. POLITICAL SCIENCE. A.B, Illinois, 42; Maxwell Sch. fel. & M.S, Syracuse, 43; A.M, Harvard, 51, Ph.D, 53. Instr. polit. sci, Missouri, 48-52, asst. prof, 52-54; sr. assoc, NAT. MUNIC. LEAGUE, 54-61, ASST. DIR, 61- Res. assoc, Govt. Affairs Found, 54-57; vis. assoc. prof, Columbia, 57, sr. res. assoc, dept. pub. law & govt, 57-62. Consult, Adv. Cmn. Intergovt. Rels, 67- U.S.N.R, 43-, Capt. Polit. Sci. Asn; Soc. Pub. Admin; Govt. Res. Asn. Metropolitan areas; intergovernmental relations; state and local government. Address: 100 Buena Vista Dr, Dobbs Ferry, N.Y. 10522.

CASSELS, DR. ALAN, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CASSENS, DR. FRANK PAUL, b. New Orleans, La, July 12, 18; m. 42; c. 2. INDUSTRIAL PSYCHOLOGY. B.A, Tulane, 38, M.S, 42; Ph.D.(psychol), La. State, 66. Res. psychologist selection & eval, Adj. Gen. Off, U.S. Army, 42-45; chief psychol. measurements, Occup. Opportunities Serv, Ohio State, 45-48; head personnel studies, Lago Oil & Transport Co, Ltd, Netherlands W.Indies, 48-55; Humble Oil & Refining Co, Ltd, 55-58, head training, 58-60, sr. technologist, 60-66, indust. psychologist, 66-68; ASSOC. PROF. BEHAV. SCI, TULANE, 68- Dipl. indust. psychol, Am. Bd. Exam. Prfnl. Psychol, 67. Fel. AAAS; Personnel & Guid. Asn; Psychol. Asn; Indust. Rels. Res. Asn; Interam. Psychol. Asn. Selection, development and utilization of personnel and the development of organizations and organizational conditions which optimize the utilization of human abilities and resources. Address: 9444 S. River Oaks Dr, Baton Rouge, La. 70815.

CASSIDY, DR. ELLIOTT, b. Que, Can, Oct. 11, 11; nat; m. 37. ECONOMICS. A.B, Illinois, 34, M.A, 35, Ph.D.(govt), 39. Asst, Illinois, 36-39, instr. polit. sci, 36-42; res. analyst, War Dept, 42-44; admin. analyst, U.S. Army Air Force, 44-45; res. specialist, Army Gen. Staff, 46-48; logistic specialist & spec. asst. to chmn, munitions bd, NAT. MIL. ESTAB, 48-51, chief off. field oper, 51-53, off. indust. security, 53-57, spec. asst, DIRECTORATE SECURITY POLICY, OFF. ASST. SECY. DEFENSE, 57-61, OFF. DEP, 61- Econ. Asn; Polit. Sci. Asn; Soc. Pub. Admin. Munitions production and procurement; industrial mobilization planning; industrial security. Address: 3809 Oliver Ave, Annandale, Va. 22030.

CASSIDY, DR. WILLIAM J(AMES), b. Waterbury, Conn, May 15, 03; m; c. 1. ECONOMICS. B.S, Edinboro Teachers Col, 27; M.Ed, Pittsburgh, 36, Ph.D, 55. Teacher, pub. schs, Pa, 27-42; exam, Nat. Labor Rels. Bd, 42-60, compliance officer, 61-65; RETIRED. Lectr, Detroit, 44-45. Econ. Asn; Indust. Rels. Res. Asn. Industry; labor relations. Publ: The tri-state zinc-lead mining area; Teacher tenure problems, Proc. Am. Fedn. Teachers. Address: 109 E. 65th St, Kansas City, Mo. 64113.

CASSIMATIS, DR. PETER JOHN, b. Cythera, Greece, Jan. 28, 30; U.S. citizen; m. 58; c. 1. ECONOMICS, MANAGEMENT. B.C.E, City Col. New York, 53, M.B.A, 61; Ph.D.(econ), New Sch. Soc. Res, 67. Proj. engr, C.J. Foster Engrs, N.Y, 57-61; proj. mgr, Bechtel Assocs, 61-64; ASSOC. PROF. ECON, FAIRLEIGH DICKINSON, 64- Econ. Asn; Inst. Mgt. Sci; Soc. Civil Eng. Economic planning; industrial organization; econometrics; operations research. Publ: The structure of the construction industry, Am. Economist, fall 67; Economies of scale in construction, Fairleigh Dickinson Univ. Bus. Rev, winter 67; Rebuilding America's cities, Corriere Nuova Europa, Italy, spring, 68. Address: 19 Lorraine Dr, Eastchester, N.Y. 10709.

CASSINELLI, PROF. C(HARLES) W(ILLIAM), b. Oakland, Calif, Jan. 9, 25. POLITICAL SCIENCE. A.B, California, 48, M.A, 50; Ph.D, Harvard, 53. PROF. POLIT. SCI, WASHINGTON (SEATTLE), 67- Polit. Sci. Asn. Comparative political systems; analytic political theory; political ethics. Publ: Politics of freedom: an analysis of the modern democratic state, 61; Criminal law: the rules of the polity, Ethics, 65; Free activities and interpersonal relations, Martinus Nijhoff, 66. Address: Dept. of Political Science, University of Washington, Seattle, Wash. 98105.

CASSINI, GENE, b. Macon, Ga, Feb. 25, 23; m. 52. INTERNATIONAL ECONOMICS. B.S, Georgetown, 48; M.A, Hopkins, 49. Int. econ. analyst, U.S. Dept. State, 49-52, admin. officer res, 52-53; sr. econ. analyst, U.S. Steel Export Co, 54-64, MGR. MKT. SERV, U.S. STEEL INT.(N.Y), INC, 64- Mem. Am. Mkt. Asn. Bus. Adv. Group For. Trade Statist, U.S. Bur. Census, 59-60. Commendable serv. award, U.S. Dept. State, 51. U.S.A, 43-46, Sgt. Econ. Asn; Mkt. Asn. International business; South American economic and industrial problems; world trends and developments in steel mill and allied products. Address: 60 E. Ninth St, New York, N.Y. 10003.

CASSINI, MILDRED A(SCH), b. Brooklyn, N.Y; m. 52. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Hunter Col, 44. Surv. statistician, Nat. Housing Admin, 46-47; econ. specialist Latin Am, off. res. & intel, U.S. Dept. State, 47-54; transportation economist, Isthmian Steamship Co, 56-57; res. economist, cmt. for. rels, AM. IRON & STEEL INST, 57-61, STAFF REP, CMT. INTERNAT. TRADE, 61- Econ. Asn. Economics in international steel, Latin America, housing, transportation and communications. Publ: Foreign trade trends, iron and steel. Address: 60 E. Ninth St, New York, N.Y. 10003.

CASTAGNO, PROF. ALPHONSO A, b. Hartford, Conn, July 18, 20; m. 41; c. 1. INTERNATIONAL RELATIONS. M.A, Columbia, 48, Ph.D, 56; Fulbright grant, Florence, 49-50; London, 56. Lectr. int rels, Columbia, 51-54, instr, 55-56, 58-59; Ford Found. fel, Africa, 56-58; asst. prof, Queens Col.(N.Y), 59-62, assoc. prof. polit. sci. & acting chmn. dept, 62-65; PROF. GOVT. & DIR. AFRICAN STUDIES CENTER, BOSTON, 65- Soc. Sci. Res. Coun. grant, Africa, 62. Consult, Coun. For. Rels, 58-61. Mem. bd. dirs, Somali Nat. Inst. Res, Somalia, 66-; adv, Tubman Center African Culture, Liberia, 66- Israeli Govt. award, 57. U.S.A, 43-46, Sgt. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; African Studies Asn. Political developments in Africa; comparative government; national integrative processes in developing areas. Publ: Co-auth, Boston University papers on Africa: African politics in transition, Praeger, 67; auth, Somalia, Int. Conciliation; The Somali areas, In: The educated African. Address: 153 St. Paul St, Brookline, Mass. 02146.

CASTBERG, DR. A(NTHONY) DIDRICK, b. San Francisco, Calif) Apr. 1, 41; m. 63; c. 1. POLITICAL SCIENCE. B.A, Hawaii, 63, M.A, 66; Russell Sage fel. & Ph.D.(prosecutorial discretion), Northwestern, 68. ASST. PROF. POLIT. SCI, CALIF. STATE COL. LOS ANGELES, 68- U.S.C.G.R, 63-, Lt. (jg). Polit. Sci. Asn; Law & Society Asn. Judicial system, especially prosecutorial and judicial decision-making. Publ: Co-auth, Consititutional law, Dorsey, (in press). Address: Dept. of Political Science, California State College, Los Angeles, Calif. 90032.

CASTELLAN, DR. N(ORMAN) JOHN, JR, b. Denver, Colo, Jan. 21, 39; m. 64; c. 1. PSYCHOLOGY, A.B, Stanford, 61; Ph.D.(psychol), Colorado, 65. Res. asst. psychol, Colorado, 61-63, comput. res. consult, inst. behav. sci, 63-65, teaching assoc. PSYCHOL, univ, 65; ASST. PROF, INDIANA, 65- AAAS; Psychol. Asn; Asn. Comput. Mach; Statist. Asn; Psychomet. Soc. Mathematical models in learning; computer simulation; quantitative methods and research design. Publ: On the partitioning of contingency tables, Psychol. Bull, 65; On the estimation of the tetrachoric correlation coefficient, 66 & A model for the analysis of multiple strategies, 66, Psychometrika. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

CASTETTER, DR. DONALD DEE, Psychol, see 10th ed, Phys. & Biol. Vols. Latest known address: 434 Woodbine Dr, Pensacola, Fla. 32503.

CASTLE, DR. DAVID, b. Ridgefarm, Ill, Mar. 21, 24; m. 50; c. 3. PSYCHOLOGY, RELIGION. B.A, Wooster Col, 49; Wash. Sch. Psychiat, 52-53; B.D, Yale, 53; M.A, Indiana, 64, Ph.D.(adult ed), 65. Pastor, Friends Church, Ind, 53-66; PROF. PSYCHOL. & RELIG, WILLIAM PENN COL, 66- Consult. church renewal, Friends United Meeting, Richmond, Ind, 64-66. U.S.A.A.F, 43-46. Effects of certain group formats on behavior change; organizational efficiency and effect on self-system; shaping college programs from student personality needs. Address: Dept. of Psychology & Religion, William Penn College, Oskaloosa, Iowa 52577.

CASTLE, PROF. EMERY N(EAL), b. Greenwood Co, Kans, Apr. 13, 23; m. 48; c. 1. AGRICULTURAL ECONOMICS. B.S, Kansas State, 48, M.S, 50; Ph.D, Iowa State, 52. Asst. prof, Kansas State, 48-52; agr. economist, Fed. Reserve Bank of Kansas City, 52-54; PROF. AGR. ECON, OREGON STATE, 54-, HEAD DEPT. & DIR, WATER RESOURCES RES. INST, 66-, dean faculty, 65-66. Social Sci. Res. Coun. fel, 56; vis. prof, Purdue, 62. Mem, State Water Resources Bd, Ore, 64-; exec. cmt, Univs. Coun. Water Resources, 67- U.S.A.A.F, 43-45. Econ. Asn; Agr. Econ. Asn.(v.pres, Farm Econ. Asn, 64-65). Agricultural production economics; natural resource economics; economic research methodology. Publ: Co-auth, Farm business management, Macmillan, 62 & Water resources development, Iowa State Univ, 64. Address: 219 Extension Hall, Oregon State University, Corvallis, Ore. 97330.

CASTLE, DR. WILLIAM EUGENE, b.Thomas, S.Dak, Sept. 5, 29; m. 63. SPEECH PATHOLOGY. B.S, North. State Teachers Col, 51; Syracuse, 53-54; M.A, Iowa, 58; Ph.D.(speech path, audiol), Stanford, 63. Teacher, high sch, S.Dak, 51-52; instr. speech correction, St. Cloud State Col, 58-60; Nat. Inst. Neurol. Diseases & Blindness res. grant speech perception, Stanford, 63; asst. prof. speech path. & audiol, Virginia, 63-65; ASSOC. SECY. RES. & SCI. AFFAIRS, AM. SPEECH & HEARING ASN, 65- Summers, customs broker, Frank P. Dow Co, Calif, 56, instr, Cent. Wash. State Col, 61. Exec. secy, Joint Cmt. Audiol. & Ed. of Deaf, 65-68; Joint Cmt. Dent. & Speech Path. & Audiol, 66-68. U.S.A.F, 52-56, S/Sgt. Speech & Hearing Asn; Nat. Asn. Deaf; Acoustical Soc. Am; Speech Asn. Am. Speech science; experimental phonetics; speech perception; linguistics; professional manpower needs and utilization. Publ: Effects of selective narrow-band filtering on the perception by normal listeners of Harvard PB-50 word lists, J. Speech & Hearing Asn. Va, fall 63; Some models from information theory as they apply to concerns about aphasia, Proc. of a short course: the aphasic adult: Eval. & Rehabilitation, 12/63; Effects of selective narrow-band filtering on the intelligibility of American English vowels, Monog, Morton, 64. Address: 59 Pine View Dr, Penfield, N.Y. 14526.

CASTLEBERRY, PROF. DONALD M(ONTGOMERY), b. Hollis, Okla, Dec. 2, 14. INTERNATIONAL RELATIONS, COMPARATIVE GOVERNMENT. A.B, Cent. Col.(Okla), 35; A.M, Oklahoma, 36; Ph.D, Minnesota, 48. Asst. dir. civilian relief oper, Am. Red Cross, Russia, 44-45, dir, Poland, 45-46; asst. prof. govt, Texas, 47-48; prof. govt. & chmn. div. soc. sci, SAN FRANCISCO STATE COL, 48-58, PROF. POLIT. SCI, 60-, DEAN GRAD. DIV, 67- Vis. Smith-Mundt prof, American Univ. Beirut, 59-60; vis. prof, Uppsala, 65-66. Gold Cross, Poland, 45, Polonia Restitute, 46; Pro Merito, Netherlands, 46. Polit. Sci. Asn. Address: Dept. of Political Science, San Francisco State College, San Francisco, Calif. 94132.

CASTLEBERRY, PROF. H(ERMAN) PAUL, b. Duncan, Okla, June 8, 21. POLITICAL SCIENCE. A.B, Tex. Tech. Col, 41, A.M, 42; Hillman fel, Chicago, 45-47, Ph.D, 49. Instr, undergrad. div, Illinois, 46-49; asst. prof. POLIT. SCI, WASHINGTON STATE, 49-54, assoc. prof, 54-60, PROF, 60-, chmn. dept, 64-68. Fulbright lectr, American Univ. Cairo, 53-55, Ankara, 62-63. Polit. Sci. Asn; Am. Soc. Int. Law. International law and diplomacy. Publ; Co-auth, American national government; American state and local government. Address: Dept. of Political Science, Johnson Tower, Washington State University, Pullman, Wash. 99163.

CASTLES, PROF. IRA C(OLUMBUS), b. Monroe, La, Oct. 30, 13; m. 36; c. 1. ECONOMICS. B.S, La. State, 34; A.M, Columbia, 48; Ph.D.(econ), North Carolina, 56. Asst. prof. ECON, Rhode Island, 51-53; Wofford Col, 53-55; assoc. prof, Wilmington Col, 55-58; PROF, DELTA STATE COL, 58- U.S.A.A.F, 43-46, Lt. Econ. Asn. General policy. Address: Dept. of Business & Economics, Delta State College, Cleveland, Miss. 38732.

CASTNER, DR. HENRY W(ALKER), b. Louisville, Ky, May 3, 32; m. 64; c. 1. GEOGRAPHY. B.A, Centre Col, 55; B.M.Eng, Vanderbilt, 55; M.A, Pittsburgh, 60; Ph.D.(geog), Wisconsin, 64. Div. salesman, Westinghouse Elec. Corp, 55; ASST. PROF. GEOG, QUEEN'S (ONT), 64- Asn. Am. Geog; Am. Geog. Soc; Can. Asn. Geog. Cartography. Publ: Co-auth, Dot area symbols in cartography: the influence of pattern on their perception, Monogr, (in prep). Address: Dept. of Geography, Queen's University, Kingston, Ont, Can.

CASTORE, DR. GEORGE F, b. Edenborn, Pa, Dec. 4, 11; m; c. 4. PSYCHOLOGY. B.S, Calif. State Teachers Col, 43; M.S, Pa. State, 44, Ph.D.(psychol), 48. Asst. prof. psychol, Colgate, 48-52; clin. psychologist, Blackfoot State Hosp, Idaho, 52-54, chief clin. psychologist & head dept. psychol, 54-58; dir. psychol, MENT. HEALTH INST, 58-62, clin. psychologist, 62-66, DIR. PSYCHOL, 66- Psychol. Asn. Interpersonal interaction process in groups;

learning related to personality development; interpersonal communication. Publ: Simplified punch card method of determining sums of squares and sums of products, Psychometrika; Student evaluation of a case method course, Am. Psychol; Number of interrelationships as a determinant of group size, J. Abnorm. & Soc. Psychol. Address: Mental Health Institute, Mt. Pleasant, Iowa 52641.

CASTRO, DR. BARRY, b. Bronx, N.Y, May 28, 34; m. 62. ECONOMICS. B.A, Hunter Col, 55; M.B.A, N.Y. Univ, 56, Ph.D.(econ), 67; Nat. Sci. Found. fel, California, Berkeley, 62-63. Instr. econ, Fairleigh Dickinson, 58-62; res. economist, California, Berkeley, 63-64; lectr. ECON, Brooklyn Col, 64-66; ASSOC. PROF, NAVAL POSTGRAD SCH, 66- U.S.A.R, 57-62. AAAS; Econ. Asn. Behavioral and labor economics; organization theory; economics of science and education. Publ: A means of exploring some negative consequences of federal science policy on scientific productivity, In: Value in today's economy, Am. Soc. Value Engrs, 2/68; The scientific opportunities foregone because of more readily available federal support for research in experimental than theoretical physics, J. Polit. Econ; 6/68. Address: Dept. of Economics, Naval Postgraduate School, Monterey, Calif. 93940.

CATALDO, DR. EVERETT F, b. Franklin, Mass, Oct. 5, 35; m. 62; c. 2. POLITICAL SCIENCE. B.A, Holy Cross Col, 57; M.A, Boston Col, 59; Ph.D. (polit. sci), Ohio State, 65. Lectr. POLIT. SCI, Ohio State, 63-65; ASST. PROF, STATE UNIV. N.Y. BUFFALO, 65- Am. Polit. Sci. Asn. Cong. fel, 62-63; Nat. Sci. Found. summer fel, 66. Co-investr, study of agencies of soc. change & polit. behav, Off. Econ. Opportunity. U.S.A, 59. Polit. Sci. Asn. Legislative behavior; political parties and public opinion; urban politics. Address: 300 Bernhardt Dr, Snyder, N.Y. 14226.

CATANIA, DR. A(NTHONY) CHARLES, b. New York, N.Y, June 22, 36; m. 62; c. 2. PSYCHOLOGY. B.A, Columbia, 57, M.A, 58; Nat. Sci. Found. fel, Harvard, 58-60, Ph.D.(psychol), 61. Res. fel. psychol, Harvard, 60-62; sr. pharmacologist, Smith Kline & French Labs, Pa, 62-64; asst. prof. PSYCHOL, UNIV. COL. ARTS & SCI, N.Y. UNIV, 64-66, ASSOC. PROF, 66- Prin. investr, Nat. Sci. Found. grant, 65-67 & Nat. Insts. Health grant, 67-70. Ed, J. Exp. Anal. of Behav, 66-69. AAAS; fel. Psychol. Asn; Soc. Exp. Anal. of Behav.(pres, 66-68); Psychonomic Soc; Animal Behavior Soc. Fundamental principles of behavior and learning, especially relationships and interactions among different classes of responses; schedules of reinforcement and punishment; verbal behavior; psychophysics; comparative psychology; psychopharmacology. Publ: Ed, Contemporary research in operant behavior, Scott, auth, various papers, J. Exp. Anal. Behav, 61-68. Address: Dept. of Psychology, University College of Arts & Science, New York University, Bronx, N.Y. 10453.

CATELLIER, BRO. HUBERT, b. St. Georges, Que, Sept. 19, 01. GEOGRAPHY. B.A. & B.Ped, Montreal, 35; M.A, Michigan, 43; M.Sc, Laval, 44, Ph.D, 53. Prof. French & math, Acad. de Que, 23-37; dir, Norm. Sch, Ste-Foy, Que, 37-41; prof. geog, Laval, 40-47, 49-61, dir. center document, faculty commerce, 61-66; REFERENCE & RES, NORM. SCH, STE-FOY, 66-, dir. sec. sch, 56-58. Can. Asn. Geog. Climatic conditions in the province of Quebec; natural resources in the vicintiy of Quebec City. Publ: 40-devoirs de chime; Le climat de la Province de Québec a-t-il changé depuis 1890?; Les problèmes géographiques de l'hiver dans les Cantons de l'est. Address: Normal School, Ste-Foy, Que, Can.

CATEORA, DR. PHILIP R, b. Houston, Tex, May 3, 32; m. 55; c. 3. MARKETING. B.B.A, Texas, 57, M.B.A, 59, Ph.D.(bus), 62. Asst. prof. MKT, Texas, 61-62; Southern California, 62-63; ASSOC. PROF, COLORADO, 63-, ASSOC. DEAN & DIR. GRAD. STUDIES, 67-, dir. bus. res, 64-66. Mkt. Asn. International business and marketing. Publ: Co-auth, Marketing insights, 63 & Readings in marketing, 67, Appleton; International marketing, Irwin, 65. Address: Dept. of Marketing, University of Colorado School of Business, Boulder, Colo. 80302.

CATHERWOOD, DR. M(ARTIN) P(AUL), b. Battle Ground, Ind, Jan. 28, 04; m. 30; c. 2. INDUSTRIAL RELATIONS. B.S.A, Illinois, 26, M.S.A, 27, hon. L.L.D, 61; Ph.D.(agr. econ), Cornell, 30. Asst. prof. bus. mgt, Cornell, 30-36, prof, 36-39, pub. admin, 39-47, dean, N.Y. State Sch. Indust. & Labor Rels, 47-58; STATE INDUST. CMNR, N.Y, 59- State cmnr. commerce, N.Y, 41-47. Chmn. bd. inquiry, Longshore Indust. Work Stoppage, Port of New York, 51-52. Mem, President's Emergency Bd, Rwy. Labor Act, 54, 55; Minimum Wage Bds, P.R. Indust. Rels. Res. Asn; Soc. Pub. Admin; Acad. Arbit. Address: State Office Building Campus, Albany, N.Y. 12226.

CATLIN, PROF. WARREN B(ENJAMIN), Econ, see 10th ed, Soc. & Behav. Vols.

CATTELL, PROF. DAVID T(REDWELL), b. Hinsdale, Ill, Apr. 5, 23; m. 48; c. 2. POLITICAL SCIENCE. Fel. & B.A, Amherst Col, 47; M.A, Columbia, 49, Soc. Sci. Res. Coun. fel, 51-52, Ph.D.(int. law & rels), 53. From asst. prof. to assoc. prof. POLIT. SCI, CALIFORNIA, LOS ANGELES, 52-66, PROF, 66- Soc. Sci. Res. Coun. fel, Columbia, 58; Inter-Univ. Travel Grant Cmt. faculty-student exchange, Leningrad State, 62; Rockefeller res. grant int. rels, 63; exchange prof, Leningrad State, 66. U.S.A.A.F, 43-46. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Foreign policy of the Soviet Union; Soviet government; international relations and law. Publ: Communism and the Spanish Civil War; Soviet diplomacy and the Spanish Civil War; Leningrad: a case study of Soviet urban government, Praeger, 68. Address: 15210 McKendree St, Pacific Palisades, Calif. 90272.

CATTELL, DR. PSYCHE, b. Garrison, N.Y, Aug. 2, 93. CLINICAL PSYCHOLOGY. A.M, Cornell, 25; Ed.M, Harvard, 25, Ed.D, 27. Asst. statistician, Am. Men Sci, 19-21; asst. psycho-ed. clin, Harvard, 22-25, 26-27; psychol, Stanford, 25-26; res. assoc, Harvard, 27-36, res. fel, sch. pub. health, 32-39; chief psychologist, Lancaster Guid. Clin, 39-63; DIR. CATTELL SCH, 41- Psychologist, Ment. Health Clin, Lebanon County, 39-42; private practice, 39- AAAS; fel. Psychol. Asn; fel. Soc. Res. Child Develop; fel. Orthopsychiat. Asn. Mental and physical growth of infants and children; intelligence quotients; school standing and physical traits. Publ: Cattell infant intelligence scale. Address: 314 N. West End Ave, Lancaster, Pa. 17603.

CATTELL, PROF. RAYMOND B(ERNARD), Psychol, see 11th ed, Phys. & Biol. Vols.

CATTON, PROF. WILLIAM R(OBERT), JR, b. Minneapolis, Minn, Jan. 15, 26; m. 49; c. 4. SOCIOLOGY. B.A, Oberlin Col, 50; fel, Washington (Seattle), 51-53, M.A, 52, Ph.D.(sociol), 54. Intern sociol. & anthrop, Reed Col, 54-55; asst. soc. scientist, Rand Corp, 55-56; asst. prof. SOCIOL, North Carolina, 56-57; WASHINGTON (SEATTLE), 57-62, assoc. prof, 62-66, PROF, 66- Vis. assoc. prof, Oberlin Col, 64-65. U.S.N.R, 43-46. Sociol. Asn. Social attitudes; sociological theory; recreational travel patterns; outdoor recreation management institutions; social change. Publ: From animistic to naturalistic sociology, McGraw, 66; co-auth, Sociology, Harper, 4th ed, 68 & A comparison of mathematical models for the effect of residential propinquity on mate selection, Am. Sociol. Rev, 64. Address: Dept. of Sociology, University of Washington, Seattle, Wash. 98105.

CAUDILL, DR. WILLIAM A(BEL), b. Cincinnati, Ohio, Sept. 28, 20; m. 59; c. 1. SOCIAL ANTHROPOLOGY. Ph.D.(anthrop), Chicago, 50. Instr. soc. anthrop, dept. psychiat, Yale, 50-52; Harvard, 52-53, asst. prof, 53-56, lectr, 56-60; CHIEF SECT. PERSONALITY & ENVIRON, NAT. INST. MENT. HEALTH, 60- U.S.N.R, 42-45, Lt.(jg). Fel. Anthrop. Asn; fel. Sociol. Asn; Asn. Asian Studies; Soc. Appl. Anthrop; Psychoanal. Asn. Culture and personality; relations between social anthropology and medicine, especially psychiatry; social structure of psychiatric hospitals and its effect on therapeutic progress of patients in United States and Japan. Publ: The psychiatric hospital as a small society; Japanese American personality and acculturation, Genetic Psychol. Monogr. Address: Lab. of Socio-Environmental Studies, National Institute of Mental Health, Bldg. 10, Room 2N222, Bethesda, Md. 20014.

CAUFFIEL, PROF. PAUL W(ENDELL), b. Johnstown, Pa, Dec. 10, 23; m. 50. PSYCHOLOGY. B.A, Pa. State, 48, M.S, 50, Ed.D.(counseling, guid), 52. Asst. prof. psychol, Mt. Union Col, 52-54; assoc. prof. psychol. & ed, dean students, counsr. men & chmn. div. human rels, Henderson State Teachers Col, 54-56; dir. student personnel, Key West High Sch, 56-57; assoc. prof. psychol. & dir. counseling, South.State Col, 57-59; coordinator guid. serv. & dir. Nat. Defense Ed. Act Guid. Res. Proj, bd. pub. instrs, Sarasota County, 59-62; consult-rep, test dept, Harcourt, Brace & World, Inc, 62-65; PROF. PSYCHOL. & ED. & CHMN. DEPT, JR. COL. BROWARD COUNTY, 65- U.S.A, 43-46. Psychol. Asn; Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv; Nat. Coun. Measurement in Ed; Col. Personnel Asn. Teaching psychology; counseling and guidance; measurement and evaluation. Publ: Teacher supply and demand in Pennsylvania; co-auth, Comparison of the performance of a randomly selected college population on the MMPI and the P-S experience blank, J. Clin. Psychol. Address: 2418 Marathon Lane, Ft. Lauderdale, Fla. 33312.

CAULEY, PROF. TROY J(ESSE), b. Comanche, Tex, July 23, 02; m. 26; c. 2. ECONOMICS. B.A. & M.A, Texas, 26; fel, Wisconsin, 29-30, Ph.D, 31. Asst. prof. econ, Vermont, 30-31; assoc. prof, Emory, 31-34; prof. & head dept, Georgia Sch. Tech, 34-35; mem. staff, U.S. Govt, 35-43; assoc. prof. ECON, INDIANA, 47-63, PROF, 63- Vis. prof, Texas, 57-58. Consult, Nat. Adv. Cmn. Food & Fiber, 66-67. Econ. Asn; Agr. Econ. Asn; Asn. Evolutionary Econ. Agricultural economics; public finance. Publ: Agriculture in an industrial economy; Public finance and the general welfare; Economics: principles and institutions, Int. Textbook, 68. Address: Nashville Rd, R.R. 2, Bloomington, Ind. 47401.

CAULFIELD, HENRY P(ATRICK), JR, b. New York, N.Y, Nov. 25, 15; m. 56; c. 4. ECONOMICS. S.B, Harvard, 40, M.P.A, 49. Staff asst. econ. anal, off. secy, U.S. Dept. Interior, 51-55; economist, Resources For Future, Inc, 55-61; asst. dir. resources prog. staff, OFF. SECY, DEPT. INTERIOR, 61-63, dir, 63-66, EXEC. DIR. WATER RESOURCES COUN, 66- U.S.N.R, 42-46, Lt. Comdr. Econ. Asn; Polit. Sci. Asn; Soc. Pub. Admin. Natural resources programs and policies. Address: 6625 31st St. N.W, Washington, D.C. 20015.

CAUSEY, DR. ROBERT LOUIS, Philos. of Sci, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

CAUTELA, DR. JOSEPH R(ICHARD), b. Boston, Mass, Feb. 21, 27; m. 51; c. 3. PSYCHOLOGY. A.B, Boston, 49, A.M, 50, Ph.D.(psychol), 54. From asst. prof. to PROF. PSYCHOL, BOSTON COL, 52-, dir. guid, 56-59. U.S.N, 45-46. AAAS; Psychol. Asn. Behavior therapy; learning theory. Publ: The problem of backward conditioning, J. Psychol, 65; The Pavlovian basis of reciprocal inhibition, Conditional Reflex, 10-12/66; Covert sensitization, Psychol. Reports, 4/67. Address: Dept. of Psychology, Boston College, Chestnut Hill, Mass. 02167.

CAUTLEY, DR. PATRICIA WOODWARD, b. Wilkinsburg, Pa, Jan. 16, 14; m. 48; c. 2. PSYCHOLOGY. A.B, Michigan, 35, A.M, 36; Pittsburgh, 37-38; Bennett fel, Pennsylvania, 38-40, Ph.D.(psychol), 42. Clin. psychologist, Children's Aid Soc, Allegheny County, Pa, 40-43; Cath. Charities, Pittsburgh, 41-43; assoc. exec. secy, cmt. food habits, Nat. Res. Coun, 43-44; study dir, div. prog. surys, U.S. Dept. Agr, 45-46; surv. res. center, Michigan, 46-47; res. dept, Wash. Post, D.C, 47; higher ed. study, Am. Asn. Univ. Women, 48-50; psychologist, Cincinnati Bd. Ed, 52-55, 56-57; mem. staff, Children's Int. Summer Villages, Ohio, 55-56; psychologist, Columbus State Sch, 58-60; proj. assoc, teacher ed. res. proj, Univ. Wisconsin, 61-64; PROJ. DIR, FOSTER HOMES RES. PROJ, WIS. DEPT. HEALTH & SOC. SERV, 64- Nat. Res. Coun. res. assoc, child welfare res. sta, Iowa, 42. Psychol. Asn. Multiple roles of women; personality of parents and child-rearing practices; communication behavior in the classroom. Publ: Co-auth, Successful foster homes: an exploratory study of their characteristics, Wis. Dept. Health & Soc. Serv, 66; auth, Attitudes toward international affairs; American Association of University Women members look at college education. Address: 4805 Regent St, Madison, Wis. 53705.

CAVALIER, DR. ROBERT PETER, b. Palisade, N.J, Sept. 16, 33. PSYCHOLOGY. A.B, Fordham, 55; M.S, N.C. State, 56; Ph.D.(psychol), Columbia, 61. Asst. dir. lab. psychol. studies, Stevens Inst. Tech, N.J, 60-64; asst. prof. psychol, Fairleigh Dickinson, 64-67; ED. ADMINSTR, AM. INST. BANKING, AM. BANKERS ASN, 67- Psychol. Asn. Development of human resources through education and guidance. Address: American Institute of Banking, 90 Park Ave, New York, N.Y. 10016.

CAVAN, DR. RUTH SHONLE, b. Tuscola, Ill, Aug. 28, 96; m. 27; c. 1. SOCIOLOGY. Ph.B, Chicago, 21, A.M, 23, Ph.D.(sociol), 26. Asst, soc. sci. res. cmt, Chicago, 31-36; lectr. sociol, Rockford Col, 36-38; res. consult, Am. Youth Cmn, 39-40; res. assoc, Soc. Sci. Res. Coun, 44-45; prof. sociol, Rockford Col, 48-62; distinguished vis. prof. family rels, Pa. State, winter, 63; PROF. SOCIOL, NORTHERN ILLINOIS, 64- Lectr, Washington (St. Louis), 46-47; Michigan, 51; Utah State, 59; Illinois, summer, 65. Res. asst, White House Conf. Child Health & Protection, 30. Mem. Groves Conf. Marriage & Family. Sociol. Asn; Nat. Coun. Family Rels; Soc. Study Social Probs; Nat. Coun. Crime & Delinquency; Soc. Criminol; Int. Soc. Criminol. The family; crime. Publ: Juvenile delinquency, Lippincott, 62; American family, Crowell, rev. ed, 63; co-auth, Delinquency and crime: cross-cultural perspectives, 68. Address: Dept. of Sociology & Anthropology, Northern Illinois University, De Kalb, Ill. 60115.

CAVAN, DR. SHERRI E, b. Baldwin, N.Y, Mar. 13, 38. SOCIOLOGY. B.A, California, Los Angeles, 59, M.A, 61, U.S. Pub. Health Serv. fel, Berkeley, 63-65, Ph.D.(sociol), 65. ASST. PROF. SOCIOL, SAN FRANCISCO STATE COL, 65- Sociol. Asn; Law & Society Asn. Social interaction; sociological theory and methodology. Publ: Liquor license, Aldine, 66; Interaction in home territories, Berkeley J. Sociol, 63. Address: Dept. of Sociology, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

CAVANAGH, PROF. HELEN M, U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CAVANAUGH, DR. DAVID K, b. Holland Patent, N.Y, July 8, 29; m. 53; c. 2. CLINICAL PSYCHOLOGY. B.A, Colgate, 51; Texas, 51-52; M.S, Pa. State, 53; Ph.D, Buffalo, 57. Staff psychologist, Polk State School, Pa, 53-54; trainee, Vet. Admin. Hosp, Buffalo & Canandaigua, 54-57; ASSOC. CLIN. PSYCHOLOGIST, BUFFALO STATE HOSP, 57- Lectr. & clin. assoc, Buffalo, 57- Consult, Attica State Prison, 58- Private practice, 60- U.S.A.F.R, 53, Maj. Psychol. Asn. Motivational conflict in mental illness. Publ: Concept formation performance in schizophrenia as a function of motivational change; Social censure & Social reward, In: The performance of schizophrenics. Address: 161 Sweet Briar Rd, Tonawanda, N.Y. 14150.

CAVANAUGH, DR. JOSEPH AARON, b. Centralia, Wash, Jan. 11, 15; m. 37; c. 1. SOCIOLOGY. B.A, East. Wash. Col. Ed, 36; M.A, Washington (Seattle), 42, fel, 48-50, Ph.D, 50. Teacher sociol. hist, Everett Jr. Col, 47-48; assoc, Washington (Seattle), 48-50; asst. prof, West. Wash. Col. Ed, 50-51; tech. adv. Peru demog. statist, For. Oper. Admin. & U.S. Pub. Health Serv, 51-55; chief training br. int. statist, U.S. Bur. Census, 55-56; dir. coop. biostatist. prog. Peru, Int. Coop. Admin, 56-61; chief, manpower studies unit, Nat. Inst. Ment. Health, 61-66; dep. chief, pop. br, health serv, AGENCY INT. DEVELOP, U.S. DEPT. STATE, 66-67, CHIEF, MANPOWER & RES. DIV, POP. SERV, 67- Officer, Grand Order Daniel Carrion, Repub. Peru, 61. U.S.A, 43-45. Fel. AAAS; fel. Sociol. Asn; Pop. Asn; Int. Union Sci. Study of Pop. Vital and demographic statistics; statistical administration; manpower studies; population dynamics. Publ: Formulation, testing and analysis of the interactance hypothesis, Am. Sociol. Rev; Research and data collection techniques for developing areas, Proc. World Pop. Conf. Belgrade, 65; Supply and demand for health personnel in Latin America, Pub. Health Reports & Estadistica. Address: 6029 Rossmore Dr, Bethesda, Md. 20014.

CAVE, RICHARD THOMAS, b. Wauseon, Ohio, Mar. 27, 20; m. 46; c. 7. PSYCHOLOGY. B.S, S.Dak. State Col, 42; M.A, Minnesota, 49. Res. psychologist, personnel training res. center, U.S. Air Force, 55-58, behav. sci. lab, 58-62; res. specialist, space & info. systs. div, N.Am. Aviation Inc, 62-64, SR. TECH. SPECIALIST, SPACE DIV, N.AM. ROCKWELL CORP, DOWNEY, 64- U.S.A.F, 42-62, Maj. Psychol. Asn; Personnel & Guid. Asn. Statistical design; test and measurement; training and education; interest measurement; human factors engineering. Address: 9440 Sabre Lane, Westminster, Calif. 92683.

CAVE, PROF. ROY C(LINTON), b. Sheridan, Ore, May 14, 99. ECONOMICS. A.B, Washington (Seattle), 23, A.M, 24; Harvard, 24-25; Ph.D, California, 28. Instr, Col. Wooster, 25-26; asst, California, 26-28; instr, St. Louis, 28-29, asst. prof, 29-31; assoc. prof. ECON, SAN FRANCISCO STATE COL, 31-36, prof, 37-65, EMER. PROF, 65- Economist, Off. Price Admin, D.C, 43-45, regional economist, 51; dir, Consumer Res. Inst, 61-67. Econ. Asn; Statist. Asn. Consumption economics; business fluctuations; economic theory; analytical study of common stock prices; empirical test of leading theories of common stock price behavior. Publ: Co-auth, Source book for medieval economic history; auth, Co-operative development and outlook in east and central Africa, mongr; co-auth, San Francisco survey of consumer buying plans and economic expectations, Consumer Res. Inst, 64-67. Address: Dept. of Economics, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

CAVERT, DR. WILLIAM LANE, Cultural Econ, see 10th ed, Soc. & Behav. Vols.

CAVES, PROF. JACK WILLIAM, b. Oakville, Tex, Oct. 13, 16; m. 48; c. 3. PSYCHOLOGY. B.S, E.Tex. Baptist Col, 47; M.A, North Texas State, 48; Ph.D.(ed. psychol), Texas, 61. Teacher, high schs, Tex, 48-50, prin, 51-55, counsr, 59-61; voc. rehab. counsr, Tex. Ed. Agency, 55-59; counsr, Odessa Col, 61-62; PROF. PSYCHOL, Stephen F. Austin State Col, 62-65; SOUTHWESTERN LOUISIANA, 65-, DIR. VOC. REHAB. COUNSR. TRAINING, 67- Voc. rehab. counsr. training teaching grant, 67- U.S.M.C.R, 42-46, Sgt. Psychol. Asn; Rehab. Asn. Counseling and educational psychology; vocational rehabilitation counselor training. Address: Box 737 USL Station, University of Southwestern Louisiana, Lafayette, La. 70501.

CAVES, PROF. RICHARD E(ARL), b. Akron, Ohio, Nov. 1, 31. ECONOMICS. A.B, Oberlin Col, 53; Woodrow Wilson, Earhart & Ford Found. fels, Harvard, 56-58, M.A, 56, Ph.D.(econ), 58. Asst. prof. ECON, California, 57-59, assoc. prof, 59-62; PROF, HARVARD, 62-, CHMN. DEPT, 66- Ford Found. faculty res. fel, 59-60. Consult, Coun. Econ. Adv. to President, 61. Henderson prize, 67. Econ. Asn. International trade and commercial policy; industrial organization; regulated industries; economics of natural resources; economic theory. Publ: Trade and economic structure; Air transport and its regulators; co-auth, Canadian economy: prospect and retrospect. Address: Dept. of Economics, Harvard University, A.E.A, Cambridge, Mass. 02138.

CAVIN, DR. J(AMES) P(IERCE), b. Salem, Mass, Aug. 11, 05; m. 41; c. 1. AGRICULTURAL ECONOMICS. B.B.A, Boston, 27, M.A, 30; Ed.M, Harvard, 29, Ph.D.(econ), 38; fel, Brookings Inst, 35-36. Asst. prof. econ, Puerto Rico, 30-33; economist, agr. adjust. admin. & bur. agr. econ, U.S. Dept. Agr, 36-39, assoc. head div. statist. & hist. res, bur. agr. econ, 43-46, head, 46-51; economist, Nat. Defense Adv. Cmn, 40-41; price exec. & assoc. head food price div, Off. Price Admin, 41-43; econ. statistician, off. statist. standards, U.S. Bur. Budget, 51-54; chief statist. & hist. res. br, agr. mkt. serv, U.S. Dept. Agr, 54-60, dep. dir. DIV. ECON. & STATIST. ANAL, ECON. RES. SERV, 61-63, DIR, 63- Cert. merit, U.S. Dept. Agr, 65. Econ. Asn; Statist. Asn; Agr. Econ. Asn. Agricultural price analysis; food consumption and requirements; agriculture and economics growth. Publ: Projections in agriculture; co-auth, Agriculture and economic growth, U.S. Dept. Agr, 63. Address: Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

CAVINESS, DR. JAMES ALFRED, b. Baker, Ore, Oct. 16, 33; m. 58; c. 2. PSYCHOLOGY. B.A, Portland State Col, 60; Nat. Sci. Found. fel. & M.A, Cornell, 62, univ. scholar, & Ph.D.(exp. psychol), 64. Asst. prof. PSYCHOL, Willamette, 64-67; PROJ. DIR, U.S. NAVAL PERSONNEL RES. ACTIVITY, 67- Asst. prof, West. Wash. State Col, summer 64. Psychol. Asn. Human psychophysics; concept formation; applied psychology. Publ: Co-auth, Persistent fear responses in rhesus monkeys to the optical stimulus of looming, Science, 6/62; auth, Diagnosis of performance and attrition in U.S. naval class C welding school courses, U.S. Naval Personnel Res. Activity Res. Report, (in press). Address: Naval Training Research Lab, U.S. Naval Personnel Research Activity, San Diego, Calif. 92152.

CAVONIUS, DR. CARL RICHARD, Physiol, Psychol. See 11th ed, Suppl. II to Phys. & Biol. Vols.

CAWLEY, SISTER ANNE, O.S.B, b. Arrington, Kans, Feb. 12, 02. PSYCHOLOGY. Ph.D, Catholic Univ, 50. HEAD DEPT. PSYCHOL, MT. ST. SCHOLASTICA COL, 45- Summer, vis. lectr, St. Vincent Col, 53; Col. St. Benedict, summer, 63. Chmn. Ed-Psychol. Sect, Am. Benedictine Acad, 60-62; Grant, Kansas City Regional Coun. Higher Ed, 65- Psychol. Asn. Teaching; testing; counseling. Publ: Study of vocational interest trends of secondary school and college women, Genetic Psychol. Monogr; Team teaching, New Cath. Encyclop, 66; Interest changes in elementary teaching, Cath. Ed. Rev, 9/67. Address: Dept. of Psychology, Mount St. Scholastica College, Atchison, Kans. 66002.

CAWTHORNE, DR. D(ELMAS) R(ICHARD), b. Glamorgan, Va, Feb. 25, 07; m. 29. ECONOMICS. A.B, Georgetown Col, 29; M.A, Ohio State, 31, Ph.D, 40. Prof. econ, Miami (Ohio), 30-42, 46-50, head dept, 48-50, dean sch. bus. admin, 63-67; financial economist, FED. RESERVE BANK KANS. CITY, MO, 50-59, sr. economist, 59-63, V.PRES. & SR. ECONOMIST, 63, 67- Asst, Ohio State, 31; dir, Cincinnati Br, Fed. Reserve Bank, Cleveland, 67. U.S.A.A.F, 42-46, Lt. Col. Econ. Asn; Finance Asn. Central banking and credit policy; treasury finance; commercial banking. Publ: Co-auth, Money and banking; Essays in commercial banking. Address: 9928 Metcalf, Overland Park, Kans. 66212.

CAYWOOD, DR. THOMAS E, Math, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

CAZDEN, DR. NORMAN, Musicol, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CAZELL, DR. GABRIEL F(RANCOIS), b. New York, N.Y, June 20, 17; m. 37; c. 1. ECONOMICS, STATISTICS. B.A, Tex. Agr. & Mech. Col, 37, M.S, 38; Ph.D, Minnesota, 50. Economist, Fed. Reserve Bank, Chicago, 42; U.S. Dept. Commerce, 42-46; dir. bus. & indust. mgt. prog, American Univ, 46-48; prof. econ, Kalamazoo Col, 48-50; assoc. prof, Arkansas, 50-51; economist, off. secy, U.S. Dept. Interior, 51-58, asst. chief economist, bur. mines, 55-58; chmn. dept. econ, Hamline, 58-61; statist, adv. Korean govt, U.S. Opers. Mission, Survs. & Res. Corp, 61-65; PROF. ECON, REDLANDS, 65- Economic theory; economics of mineral resources. Publ: Review of the mineral industries in 1953, In: Minerals yearbook. Address: Dept. of Economics, University of Redlands, Redlands, Calif. 92373.

CEASE, PROF. RONALD CLAYTON, b. Britton, S.Dak, Mar. 3, 31; m. 60; c. 1. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Reed Col, 53; M.P.A, Syracuse, 54; Claremont Grad. Sch, 57-60. Asst, bur. municipal res, Oregon, 56-57; asst. prof. POLIT. SCI, Alaska, 60-66; mem, faculty senate, 62; ASSOC. PROF, PORTLAND STATE COL, 66- Chmn. party & precinct cmt, Cent. Dist. Cmt. Democratic Party, Alaska, 62-63. Consult, Fairbanks Area Action Asn, 61- U.S.A, 54-56. AAAS; Polit. Sci. Asn. Local government in the State of Alaska, particularly the attempts to form boroughs in the state; state administrative organization. Address: Dept. of Political Science, Portland State College, Portland, Ore. 97207.

CECH, DR. EUGENE JOSEPH, b. Cleveland, Ohio, Aug. 9, 30; m. 51; c. 5. PSYCHOLOGY. B.A, California, Riverside, 57; cert. Eng, Washington (Seattle), 58; M.Ed, Washington State, 63, Ph.D.(couns. psychol), 64. DIR. TESTING, WIS. STATE, OSHKOSH, 63-, ASSOC. PROF. PSYCHOL, 66-, chmn. dept. ed. psychol, 65-66. Consult, Coop. Ed. Serv. Agency 3 Testing Progs. in Pub. Schs, 66-67; rep. of Teachers of Culturally Disadvantaged, 67- U.S.M.C, 51-54, S/Sgt. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measure-

ment in Ed. Motivation of college students and student characteristics related to academic success. Publ: Co-auth, Why school dropouts, Wash. State Supt. Pub. Instr, 63; auth, Testing for English skills at the high school level, Wis. Eng. J, 66; co-auth, Is competition desirable in physical education programs?, Wis. Health, Phys. Ed. & Recreational J, 67. Address: Dept. of Psychology, Wisconsin State University, Oshkosh, Wis. 54901.

CECILE, DR. ROBERT E(ARL), b. Syracuse, N.Y, Nov. 25, 30; m. 51; c. 7. POLITICAL SCIENCE. B.S, Southern Mississippi, 61; M.A, Oklahoma, 63, Nat. Defense Ed. Act fel. & Ph.D.(polit. sci), 65. ASST. PROF. POLIT. SCI, Winona State Col, 65-66; WRIGHT STATE, 66-, CHMN. DEPT, 67- U.S.A.F, 50-62; U.S.N.R, 64-, Lt. Polit. Sci. Asn. American foreign policy; international relations; public law. Publ: A frame of reference for the study of American foreign policy, J. Minn. Acad. Sci, fall 67; A proposal for the teaching of American foreign policy in the secondary school, Soc. Studies, winter 67. Address: 3726 Marion Dr, Enon, Ohio 45323.

CEFKIN, PROF. J. LEO, b. Rochester, N.Y, Mar. 16, 16; m. 49; c. 4. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Southern California, 48; M.A, Columbia, 49, Ph.D, 54. Clerk, U.S. Post Off, Calif, 41-48; lectr. & instr. POLIT. SCI, Brooklyn Col, 49-53; lectr, Hunter Col, 53-55; Hofstra Col, 56; asst. prof, COLORADO STATE, 56-60, assoc. prof, 60-64, PROF, 64- Rockefeller vis. prof, Univ. Col. Rhodesia & Nyasaland, 65-66. Admin. asst, Nat. Indust. Conf. Bd, 53-54; asst, Soc. Res. Lab, 53-54. U.S.A, 43-45. Polit. Sci. Asn; fel. African Studies Asn. United Nations and the specialized agencies; world communist movement; Africa south of the Sahara. Publ: Background of current world problems, McKay, 67; New states of Africa: a troubled start, Rocky Mt. Soc. Sci. J, 10/67; The Rhodesian question at the United Nations, Int. Orgn, summer 68. Address: 1932 Sheely Dr, Ft. Collins, Colo. 80521.

CELLA, PROF. FRANCIS R(AYMOND), b. Harrison, N.J, July 16, 09; m. 44. ECONOMICS, STATISTICS. A.B, Ky. Wesleyan Col, 33; M.A, Kentucky, 37, 39-51. Statistician, agr. exp. sta, Kentucky, 35-37; dir. res. & statist, State Unemploy. Compensation Cmn, Ky, 37-42; PROF. BUS. STATIST, OKLAHOMA, 46-, dir. bur. bus. res, 46-68. Consult. to private indust. & govt. orgns. U.S.A.A.F, 42-45, Lt. Col. Statist. Asn; Economet. Soc; Opers. Res. Soc; Inst. Mgt. Sci. Business and economic analysis. Address: College of Business Administration, University of Oklahoma, Norman, Okla. 73069.

CENTERS, DR. LOUISE VAN CORE, b. Huntington Park, Calif. CLINICAL PSYCHOLOGY. B.A, Southern California, 53, Ph.D.(psychol), 58. Clin. psychol. trainee, Vet. Admin, 55-58; jr. res. psychologist, child amputee prosthetics proj, med. center, California, Los Angeles, 58-59, supv. psychologist clin. sch, univ, 59-60; STAFF PSYCHOLOGIST, Child Guid. Clin, Hollywood Presby. Hosp, 60-62; Xavier clin, St. John's Hosp, Santa Monica, 62-64; LANGLEY PORTER INST, 64- Asst. clin. prof, sch. med, California, San Francisco, 65-; psychol. consult, St. Francis Hosp, San Francisco, 67- Psychol. Asn. Diagnosis and treatment of emotional problems of children and their families. Address: Apt. 5, 2988 Pacific Ave, San Francisco, Calif. 94115.

CENTERS, PROF. RICHARD, b. Paducah, Ky, Oct. 16, 12. PSYCHOLOGY. A.B, Kentucky, 44; Wyman fel, Princeton, 44-47, M.A, 46, Ph.D.(psychol), 47. Res. assoc, off. pub. opinion res, Princeton, 46-48; asst. prof. PSYCHOL, CALIFORNIA, LOS ANGELES, 48-55, assoc. prof, 55-64, PROF, 64- Instr, Rutgers, 46-48. Psychol. Asn. Social psychology; attitude and opinion; class structure. Publ: Psychology of social classes; Toward an articulation of two approaches to social class phenomena, Int. J. Opinion & Attitude Res. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

CENTI, DR. PAUL JOSEPH, b. Amsterdam, N.Y, Sept. 20, 23; m. 51; c. 5. PSYCHOLOGY, GUIDANCE. A.B, Siena Col, 48; M.A, Fordham, 50, Ph.D, 57. Instr. English & ed, Mt. St. Mary's Col, 50-53; instr. psychol. & counsr, St. Peter's Col, 53-54; asst. dir, off. psychol. servs, Fordham, 54-61, instr, sch. gen. studies, 54-59, sch. ed, 57-58; ASSOC. PROF. PSYCHOL. & DIR. COUNSELING CENTER, COL. HOLY CROSS, 61- Consult, various relig. sem. & dioceses, 63- U.S.A, 42-45, Sgt. Psychol. Asn; Personnel & Guid. Asn. Factors determining academic acheivement on the college level; aspects of personality; motivation; attitude. Publ: How to Study more effectively; co-auth, How to read more effectively, W.C. Brown, 66. Address: 15 Commodore Rd, Worcester, Mass. 01602.

CENTORINO, PROF. JAMES JOSEPH, Phys, Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

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CHAMBERLIN, PROF. STANLEY F, b. U.S, Nov. 22, 92; m. 47. ECONOMICS, FINANCE. B.S, Pennsylvania, 22, A.M. 25; Ph.D, N.Y. Univ, 35. From instr. to prof. FINANCE & chmn. dept, TEMPLE, 25-60, EMER. PROF, 60- Finance Asn. American investments in Argentina, Brazil and Chile; investment trends; corporate reorganization. Address: Argyle Court Apts, 126 Argyle Rd, Ardmore, Pa. 19003.

CHAMBERLIN, DEAN THOMAS W(ILSON), b. Gays, Ill, May 23, 14; m; c. 2. GEOGRAPHY. B.Ed, Eastern Illinois, 36, hon. Ped.D, 56; M.A, Clark, 37, Ph.D.(geog), 46. Assoc. prof. geog, E.Tenn. State Teachers Col, 39-42; vis. prof, Ball State Teachers Col, Ind, 46; assoc. prof, North. Ill. State Teachers Col, 46-47; assoc. prof. & head dept, MINNESOTA, DULUTH, 47-53, PROF. GEOG. & ACAD. DEAN, 54- U.S.N.R, 42- Asn. Am. Geog; Nat. Coun. Geog. Ed; Geog. Soc. Climatology; urban and industrial geography of Havana, Cuba; rainfall maps of Cuba; geography of Union of Soviet Socialist Republics. Address: Office of the Academic Dean, University of Minnesota, Duluth, Minn. 55812.

CHAMBERLIN, PROF. VELL BURROWS, b. Franklin, N.Y, Nov. 21, 97; m. 29; c. 2. ECONOMICS, LAW. B.S, Colgate, 20; Columbia, 21-23; M.A, Michigan, 27; J.D, Chicago, 31. Instr. mod. European hist, exten, Columbia, 21-22; from asst. prof. to assoc. prof. hist. & polit. sci, Mich. State Nor. Col, 23-28; assoc. prof. ECON. & BUS. LAW, ILL. INST. TECH, 31-63, EMER. PROF, 63- U.S.A, 18-19, 2nd Lt. Econ. Asn; Polit. Sci. Asn. Public finance; economic theory; economic systems. Publ: Taxation of Greek letter fraternities, Univ. Cincinnati Law Rev; Taxation of life insurance under federal estate tax. Address: 3 Canoe Brook Dr, Princeton Junction, N.J. 08550.

CHAMBERLIN, DEAN WALDO, b. Rockford, Ill, Oct. 13, 05; m; c. 2. GOVERNMENT, HISTORY. A.B, Washington (Seattle), 27, A.M, 36; Ph.D, Stanford, 39. Res. assoc, Hoover Library, Stanford, 38-41, fel. naval hist, Library Cong, 41-42; U.S. Dept. State, 42-44; exec. asst. to chmn, Pac. Coast Maritime Indust. Bd, 44-45; mem. staff, UN, 45-47, dir. documents, control staff, 47-48; prof. govt, N.Y. Univ, 48-61; DEAN SUMMER PROGS, DARTMOUTH COL, 61- Mem. staff, Brookings Inst, 51-53. Chmn. cmt. int. understanding, State Bd. Regents, N.Y, 50- Publ: Ed, Annual review of UN affairs; How to use United Nations documents; Chronology of the UN, 1941-1959, et sequentes. Address: Dartmouth College, Hanover, N.H. 03755.

CHAMBERS, DR. ALMA, b. Birmingham, Ala, Jan. 9, 17. EDUCATIONAL PSYCHOLOGY. A.B, Columbia Union Col, 44; A.M, Redlands, 60; Fed. grant, Southern California, 65-66, Ph.D.(ed. psychol), 67. Teacher, Plainfield Acad, 45-56, personnel dir, 54-56; asst. pharmacol, sch. med, Loma Linda, 56-64; teacher psychol, Walla Walla Col, 64; res. assoc. anxiety, Southern California, 65; asst. prof. PSYCHOL. & BEHAV. SCI, SOUTH. MISSIONARY COL, 65-66, ASSOC. PROF, 66-, CHMN. DEPT, 65- AAAS; Psychol. Asn; Ed. Res. Asn; Personnel & Guid. Asn. Exceptional children; statistical study of predictive factors for success in medical school; anxiety, physiologically and psychologically measured and its consequences on mental test performance; nutritional study. Publ: Co-auth, Nutritional studies of vegetarians, Am. J. Clin. Nutrit, 9-10/58 & Anxiety, physiologically and psychologically measured and its consequences on mental test performance, Ed. Res. Info. Center, 66. Address: Dept. of Psychology, Southern Missionary College, Collegedale, Tenn. 37315.

CHAMBERS, DR. DAVID ARTHUR PRYTHERCH, b. Lloydminster, Sask, Feb. 13, 23; m. 57. PSYCHOLOGY. B.A, British Columbia, 51; M.Sc, McGill, 57, Ph.D.(psychol), 63. Res. asst, Hudson's Bay Co, Vancouver, 51-52; statistician, Vital Statist, 52-54; res. psychologist, Prov. Hosp, St. John, N.B, 59-62; asst. prof. PSYCHOL, Saskatchewan, 62-65; WESTERN ONTARIO, 65-67, ASSOC. PROF, 67- Consult. psychologist, Ont. Hosp, London, 65-; Prov. Hosp, St. John, 66- R.C.N.V.R, 44-46. AAAS; Am. Psychol. Asn; Can. Psychol. Asn. Psychopharmacology; conditioning; psychosis. Publ: Conditioning in psychotics, Acta Psychiatrica Scandinavica, 65. Address: Dept. of Psychology, University of Western Ontario, London, Ont, Can.

CHAMBERS, PROF. DAVID S(MITH), b. Clarksville, Tex, Jan. 26, 17. STATISTICS. A.B, Texas, 39, M.B.A, 47; Michigan, 38; Stanford, 48. Spec. instr. math, Texas, 38-41; asst. state supvr. div. wage-hour, U.S. Dept. Labor, Miss, 41-42; regional exam, Off. Price Admin, Tex, 42-43; instr. aeronaut. eng, Texas, 43-44, applied math. and astron, 44-46, bus. statist, 46-47; from asst. prof. to PROF. STATIST, TENNESSEE, 47- Summer qual. control specialist, U.S. Agency Int. Develop, Mex, 63, Peru, 64. Soc. Quality Control. Address: Dept. of Statistics, University of Tennessee, Knoxville, Tenn. 37916.

CHAMBERS, PROF. EDWARD J(AMES), b. Vancouver, B.C, Apr. 18, 25; m. 45; c. 5. ECONOMICS. B.Comm, British Columbia, 45, B.A, 46, M.A, 47; Regents fel, Nebraska, 51-52, Soc. Sci. Res. Coun. fel, 52-53, Ph.D. (econ), 53. Instr. econ, Whitman Col, 47-51; economist, Can, Dept. Trade & Commerce, 53-55; Prudential Ins. Co. Am, 55-56; assoc. prof. finance, Montana State, 56-60, assoc. dir, bur. bus. & econ. res, 56-59, dir, 59-60; assoc. prof. gen. bus, SCH. BUS. ADMIN, WASHINGTON (SEATTLE), 60-62, PROF. ECON, 62- Ford Found. faculty res. fel. bus. admin, 64-65. Am. Econ. Asn; Royal Econ. Soc. Publ: Co-auth, Economics for Americans, St. Martins, 68; auth, Income analysis and forecasting, Scott, 68; Economic fluctuations and forecasting. Address: University of Washington School of Business Administration, Seattle, Wash. 98105.

CHAMBERS, DR. JACK A(LLEN), b. Hamilton, Ohio, Feb. 26, 32; m. 57; c. 1. PSYCHOLOGY, COMPUTERS. A.B, Miami (Fla), 54; M.A, Cincinnati, 55; Ph.D.(indust. psychol), Mich. State, 64. Asst. counsr, dean students staff, Fla. State, 55-56; res. adv, dean students staff, Mich. State, 56-57; psychometrist, gifted child prog, Bd. Ed, Lansing, Mich, 57-59; dir. personnel serv, SOUTH FLORIDA, 60-66, res. assoc. prof, 65-68, RES. PROF, 68-, DIR. COMPUT. RES. CENTER, 67- AAAS; Psychol. Asn; Asn. Instnl. Res; Asn. for the Gifted; Asn. Comput. Mach. Creativity and giftedness in children and adults. Publ: Preliminary screening methods in the identification of intellectually superior children, Except. Children J, 59; Relating personality and biographical factors to scientific creativity, Psychol. Monographs, 64; Creative scientists of today, Science, 64. Address: Computer Research Center, University of South Florida, Tampa, Fla. 33620.

CHAMBERS, JACK V(IRGIL), b. Waco, Tex, Dec. 18, 17; m. 42; c. 4. PHYSICAL GEOGRAPHY. B.S, Chicago, 42, M.S, 47. GEOGR, U.S. Bur. Census, 48-50; U.S. ARMY NATICK LABS, 50- U.S.A, 43-46. Asn. Am. Geog; fel. Geog. Soc. Tropical microclimatology; tropical topoclimatology; geography of color; geographical characteristics and the frequencies and patterns of mesoprecipitation in the Gatun Drainage Basin of Panama. Publ: Environmental comparison of Southeast Asia and the Island of Hawaii; World color regions atlas, U.S. Army Natick Labs, 3/67. Address: U.S. Army Natick Labs, Natick, Mass. 01760.

CHAMBERS, DR. JAY L(EE), JR, b. Providence, Ky, Apr. 7, 23; m. 51; c. 2. PSYCHOLOGY. B.A, George Washington, 48; M.A, Kentucky, 52, Ph.D, 54. Asst. prof. psychol, Muskingum Col, 54-55, head dept, 55-56; chief psychologist, East. State Hosp, Va, 56-58; res. dir, Charles L. Mix Mem. Fund, Inc, 58-64; chief psychologist, Ky. State Hosp, 64-66; CLIN. PSYCHOLOGIST, FLA. STATE, 66- Lectr, Col. William & Mary, 56-58; hon. prof, Ga. Southwest. Col, 58-; assoc. prof, Centre Col, 64-66. Consult, Lexington Vet. Admin. Hosp, 65-66. U.S.M.C, 43-46. Psychol. Asn. Personality measurement; judgement; student mental health. Publ: Need patterns and abilities of college dropouts, Ed. & Psychol. Measurement, 65; Differences between normal and clinical groups in judging, evaluating, and associating needs, J. Clin. Psychol, 65; The picture identification test manual for subjects, Fla. State Student Health Dept, 65. Address: Student Health Dept, Florida State University, Tallahassee, Fla. 32306.

CHAMBERS, DR. M(ERRITT) M(ADISON), b. Mt. Vernon, Ohio, Jan. 28, 99. HIGHER EDUCATION. B.A, Ohio Wesleyan, 22; M.A, Ohio State, 27, fel, 30-32, Ph.D.(ed. admin), 31; Washington (Seattle), summer 28. Instr. polit. sci, North Dakota, 26-27; asst. prof, Oregon State, 27-30; asst. higher ed. admin, Ohio State, 31; chmn. dept. soc. sci, Teachers Col. Kansas City, 31-32; staff mem, Brookings Inst, 34-35; Am. Coun. Ed, 35-51; owner-operator, Lafayette Farms, Ohio, 51-58; VIS. PROF. HIGHER ED, Michigan, 58-63; INDIANA, 63- From instr. to prof, Ohio State, summers 32-47; prof, Southern Illinois, summer 60; exec. dir, Mich. Coun. State Col. Presidents, 61-62. Consult, Bd. Trustees State Cols, R.I, 39; Statewide Surv. Higher Ed, Conn, 49; U.S. Off. Ed, 52-53; Milton Eisenhower's Cmt. Govt. & Higher Ed, 51; City-wide Surv. Bd. Higher Ed, New York, 61; Statewide Study Higher Ed. Facilities, Ind, 67- Exec. secy, surv. team, Massachusetts, 49; mem, surv. team, Southern Illinois, 49; Gov. Surv. Team Higher Ed, Wis, 50; Statewide Surv. Team Higher Ed, Iowa, 50; chmn, surv. team, Ky. State Col, 62; Surv. Team Long-Range Study Higher Ed, Ky, 65-66.

U.S.A.A.F, 42-45, Maj. Fel. AAAS; Acad. Polit. & Soc. Sci; Soc. Pub. Admin; Soc. Res. Higher Ed; Ed. Res. Asn; Asn. Higher Ed. State administration and financing of higher education in the United States; administrative, financial and legal aspects of universities and colleges. Publ: Co-auth, Universities of the world outside U.S.A, Am. Coun. Ed, 50; auth, Financing higher education, Prentice-Hall, 63 & The colleges and the courts since 1950, Interstate, 64. Address: Education Bldg, Indiana University, Bloomington, Ind. 47401.

CHAMBERS, DR. RANDALL M(ARION), b. Vincennes, Ind, Feb. 26, 27; m. 49; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Indiana, 48; M.A, Missouri, 51; Ph.D, Western Reserve, 54. Res. assoc, Personnel Res. Inst, 51-53; res. psychologist, Jackson Mem. Lab, 53-55; officer in charge perceptual & motor skills unit, Air Force Personnel & Training Res. Center, 55-57; assoc. prof. psychol, Rutgers, 57-58; head human factors br, aviation med. acceleration lab, U.S. NAVAL AIR DEVELOP. CENTER, 58-64, HEAD PSYCHOL. DIV, AEROSPACE MED. RES. DEPT, 64- Assoc, sch. med, Pennsylvania, 58-; adj. prof, Lehigh, 67- Mem, cmt. hearing, bioacoustics & biomech. of Nat. Acad. Sci—Nat. Res. Coun, 64-; biodynamics cmt, aerospace med. panel, adv. group aerospace res. & develop, NATO, 66- U.S.A.F, 55-57, Res, 57-, Capt. AAAS; fel. Psychol. Asn; Statist. Asn; Rocket Soc; Soc. Psychophysiol. Res; Psychomet. Soc; Aerospace Med. Asn; fel. Sociol. Asn; fel. Inst. Aeronaut. & Astronaut; Ecol. Soc; fel. Brit. Interplanetary Soc. Physiological, experimental and aerospace psychology; space flight simulation; human factors research in unusual environments; effects of physiological stress on human performance; psychophysiological aspects of space flight. Publ: Co-auth, Psychological aspects of space flight, In: Physiology of man in space, Academic, 63; auth, Human performance in acceleration environments, In: Unusual environments and human behavior, Macmillan, 63; Isolation and disorientation, In: Physiological problems in space exploration, C.C. Thomas, 64. Address: Psychology Division, Aerospace Medical Research Dept, U.S. Naval Air Development Center, Warminster, Pa. 18974.

CHAMBERS, PROF. RICHARD V(INCENT), b. Dayton, Ohio, Jan. 19, 21; m. 46; c. 2. EDUCATIONAL PSYCHOLOGY. A.B. & B.S, Marion Col.(Ind), 42; M.A, Western Reserve, 47, Ph.D, 55. Teacher, high sch, Ohio, 47-48; instr. Eng, Malone Col, 48-50; asst. prof. ed. & dean men, Taylor, 50-51; asst. prof. ed, William Penn Col, 51-53, prof, 53-54, dean students, 51-54; asst. prof. psychol, Wheaton Col, 54-57, assoc. prof, 57-61, ed. & voc. counsr, 54-61; assoc. prof. ED. & PSYCHOL, WESTMINSTER COL.(PA), 61-65, PROF, 65- Hosp.C, U.S.N, 42-45. Personnel & Guid. Asn; Psychol. Asn. Personnel services in colleges; counselor education. Address: Dept. of Education & Psychology, Westminster College, New Wilmington, Pa. 16142.

CHAMBERS, PROF. WILLIAM N(ISBET), Am. Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. 1, Hist.

CHAMBERS, DR. WILLIAM T(ROUT), b. Oaktown, Ind, Nov. 14, 96; m. 27; c. 4. GEOGRAPHY. A.B, Ind. State Teachers Col, 21; B.S, Chicago, 24, fel. & Ph.D.(geog), 26. Instr. geog, Tennessee, 22-24; from asst. prof. to prof. & head dept, Stephen F. Austin State Col, 26-67; RETIRED. Penrose grant-in-aid, 46-48. Publ: Geography of Texas, 46; Texas, its land and people, 52; Texans and their land, Steck, 64. Address: 320 Zeno St, Nacogdoches, Tex. 75961.

CHAMBLISS, PROF. R(OGER) LEE, JR, b. Petersburg, Va, Oct. 26, 13. AGRICULTURAL ECONOMICS. A.B, Hampden-Sydney Col, 35; M.S, Va. Polytech, 41; Minnesota, 51-52. Agr. economist, exten. div, West Virginia, 41-42, 46-47; ASSOC. PROF. AGR. ECON, VA. POLYTECH, 47- Agr. Econ. Asn. Farm management; labor utilization in apple packing sheds in Virginia; labor and capital efficiency in grade-A dairy barn operations; farm adjustment studies; farmer cooperatives. Publ: Co-auth, Farm organization and resource use, Virginia Agr. Exp. Sta, 2/66. Address: Dept. of Agricultural Economics & Rural Sociology, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

CHAMBLISS, DR. WILLIAM J, b. Buffalo, N.Y, Dec. 12, 33; m. 56; c. 3. SOCIOLOGY. B.A, California, Los Angeles, 55; M.A, Indiana, 60, Ph.D. (sociol), 62; Wisconsin, 66-67. Asst. prof. SOCIOL, Washington (Seattle), 62-66; vis. lectr, Wisconsin, 66-67; ASSOC. PROF, CALIFORNIA, SANTA BARBARA, 67- Nat. Inst. Ment. Health res. grants, 62-63, 65-66; Russell Sage residency law & sociol, 66-67. U.S.A, 56-58. Sociol. Asn; Soc. Study Social Probs.(treas, 66); Law & Society Asn. Deviant behavior; law; social psychology; education. Publ: Crime and the legal process, McGraw, 68; The selection of friends, Soc. Forces, 64; Types of deviance and the effectiveness of legal sanctions, Wis. Law Rev, 67. Address: Dept. of Sociology, University of California, Santa Barbara, Calif. 93106.

CHAMPAGNE, DR. JOSEPH ERNEST, b. Norwich, Conn, May 19, 38. INDUSTRIAL PSYCHOLOGY, HUMAN RESOURCES. A.B, St. Mary's, 60; M.A, Fordham, 62; U.S. Steel Found. fel, Purdue, 64, Ph.D.(indust. psychol), 66. State dir. res, S.C. State Tech. Ed. Cmn, 65-67; ASSOC. DIR. HUMAN RESOURCES PROG, HOUSTON, 67- Dir. occup. ed, Regional Ed. Lab. Carolinas & Va, 66-67; consult, S.C. Econ. Opportunity Cmn, 66-; coordinator, U.S. Dept. Labor manpower ed. serv. contract, Univ. Houston, 67, dir. teenage employ. study, 67-68; consult, Houston-Harris County Community Action Agency, 67-; Houston Voc. Guid. Serv, 67-; Houston Lighthouse for Blind, 67-; Tex. Indust. Develop. Cmn, 68- Chmn, Southwide Res. Coordinating Coun. Occup. Ed, 68. Psychol. Asn; Voc. Asn. Human resource development; allocation and utilization; manpower problems of economic development; human motivation and attitude structure and change. Publ: Attitudes and motivation of southern underprivileged workers, S.C. Cmt. Tech. Ed, 1/66; Recruitment of southern unskilled workers, Bus. Res. Center, Univ. Houston, 6/67; co-auth, Job satisfaction among underprivileged workers, Personnel & Guid. J, 1/67. Address: 12614 Trail Hollow, Houston, Tex. 77024.

CHAMPE, PROF. JOHN LELAND, b. Elwood, Nebr, Apr. 27, 95; m. 24. ANTHROPOLOGY. B.A, Nebraska, 21; Ph.D.(anthrop), Columbia, 46. V.pres, Nat. Assurance Corp, Nebr, 28-38; instr. ANTHROP, NEBRASKA, 40-47, asst. prof, 47-50, assoc. prof, 50-52, prof, 52-63, EMER. PROF, 63-, DIR. LAB. ANTHROP, 40-, chmn. dept, 53-61. Consult, Yankton Indian Land Claim, 65-68; Three Affiliated Tribes Indian Land Claim, 67-68. U.S.A, 17-19, Lt. AAAS; fel. Anthrop. Asn; Ethnol. Soc; Soc. Am. Archaeol. American archaeology, ethnohistory and index of the Central Plains. Publ: Ash Hollow cave; White Cat village, Am. Antiquity; Aksarben, Plains Anthropologist. Address: 1917 S. 27th St, Lincoln, Nebr. 68502.

CHAMPION, DR. J(EAN) R(ENE), b. Paris, France, Feb. 27, 21; nat; m. 46; c. 3. ANTHROPOLOGY. B.S, City Col. New York, 50; Ph.D.(anthrop), Columbia, 62. Lectr. anthrop, City Col. New York, 51-56; Cooper Union, 56; soc. scientist, Rand Corp, 56-57; human factors scientist, Syst. Develop. Corp, 57-65; DIR. PLANNING, CORN PRODUCTS EUROPE, 65- Res. grant, Columbia, 53 & 54. V.chmn, European Soc. Corp. & Strategic Planners, 67- Free French Forces, 41-45. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc; Geog. Soc; Sociol. Asn. Man-machine and command-control systems; information processing; electronic computer applications; management theory and practice; long-range planning; socio-cultural change. Publ: Acculturation among the Tarahumara Indians of northwestern Mexico since 1890, Trans. N.Y. Acad. Sci. Address: 2-A Ave de Saturne, Brussels 18, Belgium.

CHAMPNEY, DR. HORACE, b. Cleveland, Ohio, May 23, 05; m. 26, 51, 54, 60; c. 3. PSYCHOLOGY. A.B, Antioch Col, 32; M.A, Ohio State, 33, Ph.D.(psychol), 39., Lab. asst. psychol, Ohio State, 32-33, asst, 33-36; res. psychologist, Samuel S. Fels Res. Inst, 36-43; sci. pub. specialist, Antioch Press, 46-66, acting managing ed, child develop. pub, 64-65; RETIRED. Asst. prof, Antioch Col, 40-43. Consult. psychologist, 40-; field secy, Quaker Action Group. Fel. Soc. Res. Child Develop. Family relationships; counseling; education; nonviolent action in conflict. Publ: Fels parent behavior rating scales; Measurement of parent behavior, Child Develop; Variables of parent behavior, J. Abnorm. Soc. Psychol. Address: 130 W. Limestone, Yellow Springs, Ohio 45387.

CHANCE, DR. ERIKA, b. Vienna, Austria, July 5, 19; nat. PSYCHOLOGY. B.A, Univ. Col, London, 40, M.S, London Sch. Econ, 43; Ph.D, Stanford, 53; Phila. Psychoanal. Inst, 54-56. Consult, E.Sussex County Coun, Eng, 43-46; psychol. soc. worker, Croydon Ment. Health Serv, 46-48; group therapist, Jewish Bd. Guardians, N.Y, 49-50; res. dir. child guid, child study center, Univ. Pa. Hosp, 53-56; RES. ASSOC. PSYCHIAT, PSYCHIAT. CLIN, MT. ZION HOSP, SAN FRANCISCO, 56- Lectr, sch. med, California, 59- Consult, Mt. Zion, Letterman, Napa, Sonoma & Dewitt Hosps, 61; Center Training Community Psychiat, 61; San Francisco City Ment. Health Servs, 61. Psychol. Asn; Group Psychother. Asn; Soc. Res. Child Develop; fel. Orthopsychiat. Asn. Clinical thinking; community psychiatry. Publ: Families in treatment, Basic Books, 59; Communality and stability of meaning in clinical case description, J. Abnorm. & Soc. Psychol, 62. Address: Psychiatric Clinic, Mt. Zion Hospital, 2255 Post St, San Francisco, Calif. 94119.

CHANCE, PROF. JUNE ELIZABETH, b. Gambrills, Md, June 18, 26. PSYCHOLOGY. B.A, Maryland, 47, M.A, 49; Ph.D.(psychol), Ohio State, 52. Res. psychologist, Columbus Receiving Hosp, 52-53; asst. prof. PSYCHOL, North Carolina, 53-59; MISSOURI, 59-60, assoc. prof, 60-67, PROF, 67- AAAS; Psychol. Asn. Learning and personality change; interpersonal perception; development and expression of social motives in children. Publ: Prediction of changes in a personality inventory on retesting, Psychol. Reports; co-auth, Psychological needs and interpersonal perception, J. Personality, 60; auth, Independence training and first graders achievement, J. Consult. Psychol, 61. Address: Dept. of Psychology, University of Missouri, Columbia, Mo. 65201.

CHANCE, DR. NORMAN ALLEE, b. Lynn, Mass, Sept. 13, 27; m. 49; c. 3. CULTURAL ANTHROPOLOGY. A.B, Earlham Col, 51; Pennsylvania, 51-54; Ph.D, Cornell, 57. Res. assoc. anthrop, Cornell, 56-57; asst. prof. Oklahoma, 57-62, asst. prof. psychiat. & consult, sch. med, 58-62; assoc. prof, anthrop, McGill, 62-68, dir. prog. anthrop. of develop, 65-68; PROF. ANTHROP, CONNECTICUT, 68- Russell Sage Found. fel, 59-61; res. fel, sch. pub. health, Harvard, 60-61. Mem. nat. planning cmt, Overseas Inst. Can, 65, cmt. res, 66-67. AAAS; Fel. Anthrop. Asn; Ethnol. Soc; Arctic Inst. N.Am. Modernization, behavioral theory applied to economic, social and political development, culture and personality. Publ: The Eskimo of North Alaska, Holt, 66; Culture change and integration: an Eskimo example, Am. Anthropologist; Acculturation, self-identification and personality adjustment, Am. Anthropologist, 65. Address: Dept. of Sociology & Anthropology, University of Connecticut, Storrs, Conn. 06268.

CHANCE, PROF. TRUETT L(AMAR), b. Liberty Hill, Tex, Aug. 23, 13; m. 38; c. 1. GOVERNMENT. B.S, Southwest Texas State Teachers Col, 36; M.Ed, Texas, 41. Instr. GOVT, SAN ANTONIO COL, 47-48, asst. prof, 49-51, assoc. prof, 52-53, PROF, 54-, CHMN. DEPT. SOC. SCI, 50- U.S.A.A.F, 43-46. Polit. Sci. Asn. American government. Address: 7202 Westboro, San Antonio, Tex. 78229.

CHANCE, DR. WILLIAM A(LAN), b. Clay Center, Kans, Jan. 23, 31; m. 54; c. 3. ECONOMICS, STATISTICS. B.S, Kansas, 54, M.A, 59, Ph.D.(econ), 64. Asst. prof. ECON. STATIST, Oklahoma, 61-65; Missouri, Columbia, 65-66; ASSOC. PROF, MISSOURI, KANSAS CITY, 66- AAAS; Econ. Asn. Simulation of economic activity; the relationship of the educational system to the economic system; behavior of commodity markets; fiscal-monetary policy of the United States Government. Publ: Long-term labor requirements and output of the educational system, South. Econ. J, 66; A note on the origins of index numbers, Rev. Econ. & Statist, 66. Address: School of Administration, University of Missouri, Kansas City, Mo. 64110.

CHANCES, PROF. R(ALPH) J(ONATHAN), b. New York, N.Y, Aug. 9, 19; m. 44; c. 2. ECONOMICS. Ph.D.(econ), Columbia, 53. Instr. ECON, Trinity Col, 47-52; asst. prof, Tulane, 52-55; assoc. prof, BATES COL, 58-61, PROF, 61- Consult, 52- Econ. Asn; Royal Econ. Soc. Economic theory; economic growth and cycles. Publ: Theory and practice of minimum wage legislation, the Massachusetts example. Address: Dept. of Economics, Bates College, Lewiston, Maine 04240.

CHANDLER, DR. KENNETH A(SHTON), b. Fitchburg, Mass, Feb. 11, 21; m. 42; c. 2. PSYCHOLOGY. B.A, Clark, 48, M.A, 49, Ph.D, 53. Asst. prof. psychol, Delaware, 53; assoc. prof. & chmn. dept, Bridgeport, 54-58; fel. clin. psychol, Yale Univ. & Vet. Admin. Hosp, West Haven, 58-60; asst. prof. PSYCHOL, sch. med, Yale, 60-65; ASSOC. PROF, VASSAR COL, 65- Res. investr, Nat. Inst. Ment. Health; Nat. Sci. Found. vis. scientist, 64- Consult, chronic disease div, Conn. State Dept. Health, 63-; New Britain Mem. Hosp, Conn, 65- U.S.A, 43-45. AAAS; Psychol. Asn. Perception-personality interrelationships; experimental-clinical psychology. Publ: Effect of monaural and binaural tones of different intensities upon the perception of verticality, J. Exp. Psychol; co-auth, Hypnosis and perception: the effect of meaning and nonmeaning upon the perception of the apparent horizon, J. Psychol; auth, Three processes of dying and their behavioral effects, J. Consult. Psychol. Address: Dept. of Psychology, Vassar College, Poughkeepsie, N.Y. 12601.

CHANDLER, DR. KIRBY, Phys. Anthrop. See 11th ed, Suppl. II to Phys. & Biol. Vols.

CHANDLER, PROF. MARGARET K, b. St. Paul, Minn, Sept. 30, 22; m. 43; SOCIOLOGY. B.A, Chicago, 42, M.A, 44, Ph.D.(human develop), 48. Prof. econ, Aurora Col, 46-47; lectr. & res. assoc. sociol, labor & indust. rels, Illinois, Chicago, 47-49, asst. prof, 49-53, assoc. prof, 54-65; PROF, GRAD. SCH. BUS, COLUMBIA, 65- Fel, Yale, 53-54; Ford Found. faculty res. fel, grad. sch. bus, Chicago, 60-61. McKinsey book award, 65. Fel. Sociol. Asn; Statist. Asn; Indust. Rels. Res. Asn; Soc. Appl. Anthrop. Quantitative methods; industrial relations. Publ: Contracting-out: a study of management decision-making; Employment relations research: a summary and appraisal; Management rights and union interests, McGraw-Hill, 64. Address: Graduate School of Business, 717 Uris Hall, Columbia University, New York, N.Y. 10027.

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Coun. grant, 62. Consult, Milwaukee R.R. Co, Ill, 65-66; Northwest. Bell Tel. Co, Nebr, 66-67. Econ. Asn. Micro-economic theory; managerial economics; input-output studies; economy of China. Publ: China—development by force, Scott, 64; Input-output study for Omaha SMSA, 1963, Univ. Omaha, 68; Rate of profit and income distribution in relation to the rate of economic growth, Rev. Econ. Studies, 64. Address: Dept. of Economics, University of Nebraska at Omaha, Omaha, Nebr. 68101.

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CHAPEL, DR. ROBERT J(OHNSON), b. Manchester, Iowa, Sept. 14, 13; m. 46; c. 4. ECONOMICS, MARKETING. B.A, Chicago, 34; M.S, Duquesne, 52; Ph.D, Pittsburgh, 58. Auditor, Armour & Co, 34-36; controller, Acme Card Syst. Co, 37-38, indust. engr, Acme Visible Records, Inc, 39-42, dist.

mgr, 46-58, br. mgr, 58-61; gen. sales mgr, Admiral Homes, Inc, 61-62; mgr. appln. & systs, Xerox Corp, 62-63, mgr. mkt. develop, 64-65, dir. mkt. res. & develop, 65-66; v.pres. mkt, DASA Corp, 66-67; PRES, DOCUSTAT, INC, WALTHAM, 68- Lectr, Pittsburgh, 53-61, prof, 60-61. Pres, Time-Saver Bus. Systs, 41-46; dir, Sales Training Inst. Am. Award, Delta Sigma Pi, 61 & Visual Commun. Cong, 63. U.S.A, 42-46, Capt. AAAS; Econ. Asn; Ord. Asn; fel. Soc. Adv. Mgt. Marketing management; psychological factors in selection, training and motivation of managers; reprography; research and development of copying machines and microfilm equipment and systems. Publ: Scientific sales management; Sales control; Systems analysis—key to better management, Am. Records Mgt. Asn, 10/63. Address: 33 Morton St, Andover, Mass. 01810.

CHAPIN, PROF. F(RANCIS) STUART, b. Brooklyn, N.Y, Feb. 3, 88; m. 11, 27; c. 3. SOCIOLOGY, STATISTICS. B.S, Columbia, 09, M.A, 10, univ. fel, 10-11, Ph.D.(sociol), 11. Instr. econ, Wellesley Col, 11-12, Simmons Col, 12; sociol. & statist, Smith Col, 12-14, asst. prof, 14, assoc. prof, 14-19, prof, 19-22, dir. sch. soc. work, Smith Col, 19-21; MINNESOTA, 22-49, prof. & chmn. dept. SOCIOL, 22-53, EMER. PROF, 53-; RES. CONSULT, 53- Pres, Consumer Behav, Inc, N.Y, 52-63. Consult, Community Res. Assocs, N.Y, 50-; UNESCO, France, 51; WHO, 61; Bd. Higher Ed, N.C, 63. Ed-in-chief, Soc. Sci. Abstracts, 28-32; ed, Harpers Soc. Sci. Series, 26-63. Mem, Soc. Sci. Res. Coun, 23-27, mem. corp, 45-; mem, Gov. Cmn. Ed. Beyond High Sch, N.C, 61-62; bd. mem, Buncombe County Planning Coun, N.C, 62-; Asheville Housing Authority, 62-64, chmn, 63-64. Fel. AAAS.(v.pres, 43); Sociol. Asn. (pres, 35); Sociol. Res. Asn.(pres, 36); fel. Statist. Asn; fel. Royal Soc. Health. Applications of statistical methods and experimental designs to sociological research; housing; social and cultural change. Publ: Cultural change; Contemporary American institutions; Experimental designs in sociological research. Address: 40 Shorewood Dr, Asheville, N.C. 28804.

CHAPIN, DR. JUNE R, b. Chicago, Ill, May 19, 31; m. 54; c. 2. SOCIOLOGY, EDUCATION. B.A, Chicago, 52, M.A, 54; Ed.D, Stanford, 63. ASST. PROF. soc. sci, San Francisco State Col, 63-65; ED, SANTA CLARA, 65- Res. grants, U.S. Off. Ed, 66-68, co-dir, prospective teachers of math. proj, 66-67 & dir, inst. computer-assisted instr. for col. faculty, summer 67; Title III, Higher Ed. Act of 1965 vis. scholar, 67- Sociol. Asn; Ed. Res. Asn. Computer assisted instruction; sociology of education. Address: 1190 Bellair Way, Menlo Park, Calif. 94025.

CHAPIN, DR. NED, b. Port Gamble, Wash, Aug. 8, 27; m. 54. BUSINESS ECONOMICS, OPERATIONS ANALYSIS. M.B.A, Chicago, 49; Ph.D.(bus, econ), Ill. Inst. Tech, 59. Asst. meteorol, Chicago, 48-50; systs. analyst bus, Ford Motor Co, 53; lectr, N.Park Col, 53-54; instr. bus. & econ, Ill. Inst. Tech, 54-56; systs. analyst, Stanford Res. Inst, 56-61; assoc. prof. finance, San Francisco State Col, 61-63; head data processing, Col. San Mateo, 63-64; DATA PROCESSING CONSULT, INFOSCI INC, 64- Lectr, Roosevelt, 53-55. Contrib. ed, Computers & Automation Mag, 57- U.S.A, 51-53. Econ. Asn; Opers. Res. Soc; Sci. Res. Soc. Am; Asn. Comput. Mach; Mgt. Asn; Inst. Indust. Eng; Inst. Mgt. Sci; Soc. Gen. Systs. Res; Data Processing Mgt. Asn.(cert, 64); Asn. Ed. Data Systs; N.Y. Acad. Sci. Automatic data processing systems; operations research; clinical psychology; monetary theory; engineering economics; breakeven analysis; mycology; meteorology; systems and multivariate analysis. Publ: An introduction to automatic computers, Van Nostrand, 57, 2nd ed, 63; Programming computers for business applications, McGraw, 61; Development of the break-even chart, J. Bus, 4/55. Address: 1190 Bellair Way, Menlo Park, Calif. 94025.

CHAPIN, DR. SEYMOUR L(EON), Hist. of Sci, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CHAPLES, DR. ERNEST A, b. Palmer, Mass, Dec. 22, 39; m. 62; c. 1. POLITICAL SCIENCE. A.B, Massachusetts, 61, M.A, 65; Am. Polit. Sci. Asn. fel, Kentucky, 66-67, Ph.D.(polit. sci), 67. ASST. PROF. GOVT. & POLIT, MARYLAND, 67- Dir, Wash. Summer Prog, Mt. Vernon Col, 67-68. Consult, President's Cmn. Nat. Library Policy, summer, 67; res. consult, Econ. Systs. Corp, 67- Mem, Midwest Conf. Polit. Scientists. Polit. Sci. Asn. Political behavior, especially the behavior of American legislators. Address: 2207 Bucknell Terr, Silver Spring, Md. 20902.

CHAPLIN, DR. DAVID, b. Yonkers, N.Y, Nov. 30, 30; m. 54; c. 3. SOCIOLOGY. B.A, Amherst Col, 53; M.A, Princeton, 58, Ph.D.(sociol), 63. Instr. SOCIOL, BUCKNELL, 60-64; ASST. PROF, WISCONSIN, 64- Res. grants, Nat. Sci. Found, 63-64 & Am. Philos. Soc, 66-68. U.S.A, 54-56. Sociol. Asn; Indust. Rels. Res. Asn; Pop. Asn; Asn. Latin Am. Studies. Textile industry, land ownership records and Lima labor market surveys in Peru; analysis of private household employment in the United States. Publ: Peruvian industrial labor force, Princeton, 67; Industrialization and the distribution of wealth in Peru, Studies Comp. Int. Develop, 67-68; Peru's postponed revolution, World Polit, 4/68. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

CHAPLIN, PROF. HAYWARD C(LEMENCE), b. Apr. 18, 17; U.S. citizen; m. 53. POLITICAL SCIENCE, SOCIOLOGY. B.A, Washington (Seattle), 42, teaching cert, 43, Ed.D.(hist, polit. sci), 50; M.A, Stanford, 46. Instr. hist. & govt, Boise Jr. Col, 46-47; asst. prof, Ariz. State Col, Flagstaff, 50-52; teacher, high sch, Idaho, 52-55; asst. prof, Tex. Lutheran Col, 55-56; PROF. SOC. SCI, GEN. BEADLE STATE COL, 56- Orgn. Am. Hist. History; government; sociology; geography. Publ: The Yellowstone Special, Scenic Idaho, 62. Address: Dept. of Political Science, General Beadle State College, Madison, S.Dak. 57042.

CHAPLIN, PROF. JAMES P(ATRICK), b. Santa Monica, Calif, Jan. 6, 19; m. 40; c. 1. PSYCHOLOGY. B.A, New Mexico, 40, M.S, 41; fel, Illinois, 46-47, Ph.D.(psychol), 47. From asst. prof. to PROF. PSYCHOL, VERMONT, 47- U.S.A.A.F, 42-45. Central nervous and endocrine mechanisms in behavior; systems and theories of psychology. Publ: Rumor, fear and the madness of crowds; Systems and theories of psychology; The unconscious. Address: Dept. of Psychology, University of Vermont, Burlington, Vt. 05401.

CHAPMAN, DR. ALBERT S(IMONDS), b. Pasadena, Calif, Mar. 4, 24; m. 51; c. 3. GEOGRAPHY. B.A, Stanford, 48; M.S, Northwestern, 50, Ph.D, 54. Asst. prof. geog, Mich. State, 53; lectr, Minnesota, Duluth, 54; asst. prof. geog, Ohio, 54-57; geog. attaché, Am. Embassy, New Delhi, India, 57-61, Paris, 61-64; assoc. prof. geog, Georgia, 64-67; GEOG. ATTACHÉ, AM. EMBASSY, BONN, 67- Summer vis. lectr, California, Riverside, 67. U.S.A.A.F, 43-46. Asn. Am. Geog. Transportation; South Asia and Middle East. Publ: Structure of mapping industry in Italy; Turkey's economic regions shown by railway shipments; Mapping in Africa. Address: Geographic Attaché, American Embassy, Box 190, Bonn, W.Germany.

CHAPMAN, PROF. AMES W(AUDELL), b. Woodville, Miss, Dec. 7, 20; m. 50. SOCIOLOGY. A.B, Southern, 43; Oxford; Paris; A.M, Pennsylvania, 47; Ph.D.(sociol), Ohio State, 53. PROF. SOCIOL, CENTRAL STATE, 47- U.S.A, 43-45. Sociol. Asn. Criminology and corrections; race relations; social classes. Publ: Group approach to the reduction of tensions and conflicts; Attitudes toward legal agencies of authority; Scale to measure attitudes toward desegregation. Address: Dept. of Sociology, Central State University, Wilberforce, Ohio 45384.

CHAPMAN, PROF. CARL H(ALEY), b. Steelville, Mo, May 29, 15; m. 42; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Missouri, 39; M.A, New Mexico, 46; Rackham fel, Michigan, 50-51, Ph.D, 59. Asst, Mo. Resources Mus, 34-35; dir. archaeol, MISSOURI, 40-41, instr. ANTHROP, 46-51, asst. prof, 51-56, assoc. prof, 57-59, PROF, 60-, DIR. ARCHAEOL. RES. ACTIVITIES, 65-, dir. Am. archaeol, 46-65. Nat. Sci. Found. grants, 61-65. Alternate, Lewis & Clark Trail Cmn. & secy, Lewis & Clark Trail Cmt, 65-67; chmn, archaeol. adv. coun, Mo. State Park Bd. U.S.A, 42-45. Fel. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; fel. Soc. Hist. Archaeol; Ethnol. Soc. Midwestern American archaeology. Publ: Co-auth, Indians and archaeology of Missouri, Univ. Missouri, 64; Preliminary survey of Missouri archaeology; The little osage and Missouri Indian village sites CA. 1727-1777 A.D. Address: 211 Edgewood, Columbia, Mo. 65201.

CHAPMAN, PROF. DWIGHT W(ESTLEY), JR, b. South Bend, Ind, June 4, 05; m. 42; c. 3. PSYCHOLOGY, STATISTICS. A.B, Harvard, 27, traveling fel. from univ. to Leipzig, 27-28, Ph.D.(psychol), 30. Instr. psychol, Columbia, 27-38; Bennington Col, 38-42; res. dir, div. prog. surys, U.S. Dept. Agr, 42-44; mem. staff, assessment sch, Off. Strategic Serv, D.C, 44; acting dir. civilian surys. div, off. civilian requirements, War Prod. Bd, 44-45; asst. res. dir, Washington Post, 45-46; consult. psychol. sect, U.S. Vet. Admin, 47; dep. exec. dir, cmt. human resources, res. & develop. bd, U.S. Dept. Defense, 47-51; vis. prof, Michigan, 51-52; PROF. PSYCHOL. & CHMN. DEPT, VASSAR COL, 52- Instr, Harvard, 30-36; clin. psychologist, psychopath. clin, Recorders Court, Mich, 36-37. AAAS; Psychol. Asn. Social psychology; perceptual processes; analysis of attitudes. Publ: Co-auth, Man and society in disaster, Basic Books, 62. Address: Dept. of Psychology, Vassar College, Poughkeepsie, N.Y. 12603.

CHAPMAN, DR. GLORIA K. ORTNER, b. Buffalo, N.Y, Nov. 5, 23. PSYCHOMETRICS. B.A, Buffalo, 43, Ed.D, 54; M.B.A, Chicago, 45. Teacher, Kenmore High Sch, 45-46; chief psychometrist, Buffalo, 46-48, chief counsr. of women, 49-55; training dir, Goodwill Industs, N.Y, 48-49; counsr. & instr. psychol, Rochester Inst. Tech, 55-56; ed. res. assoc, California, 56; counsr, San Mateo High Sch. Dist, 56-59; sr. counsr, counseling & testing center, Stanford, 59-61; asst. prog. dir, col. bd. guid. serv, Ed. Testing Serv, 61-63; SR. PSYCHOLOGIST, TESTING & ADVISEMENT CENTER, N.Y. UNIV, 63- Summers, lectr, San Jose State Col, 59-61; asst. prof, Bank St. Col, 67. Consult, Sonoma County and San Raphael Sch. Dists, Calif, 59-61. Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed. Counseling and testing for academic and vocational guidance and placement; reading improvement; gifted students; academic acceleration. Publ: Teachers and the reading problem; College credit by examination. Address: 145 E. 27th St, New York, N.Y. 10016.

CHAPMAN, DR. HAROLD MARTIN, b. Pryor, Okla, Jan. 6, 04; m. 29; c. 1. PSYCHOLOGY. B.S, North Texas State, 29; M.A, Columbia, 39; M.A, Southern Methodist, 50; Ph.D.(psychol), Houston, 55. Teacher & prin, pub. schs, Tex, 28-35; teacher, Highland Park Schs, Dallas, 35-37, prin, 37-46; lectr. PSYCHOL, SOUTHERN METHODIST, 46-49, asst. prof, 49-57, ASSOC. PROF, 57-, dir. psychol. serv. center, 55-68. Private practice, 68- Psychol. Asn; Soc. Clin. Hypnosis. Cross-cultural research in West Africa 1961-1963; constructing, validating and standardizing instruments for measuring potentials of African natives. Address: 6621 Snider Plaza, Dallas, Tex. 75205.

CHAPMAN, DR. H(ERMAN) H(OLLIS), Bus. Econ, Statist, see 10th ed, Soc. & Behav. Vols.

CHAPMAN, DR. IVAN, b. Apache, Okla, Apr. 14, 17; m. 45; c. 3. SOCIOLOGY, POLITICAL SCIENCE. A.B, San Francisco State Col, 54, M.A, 55; Ph.D.(sociol), Missouri, 64. Instr. SOCIOL, Evangel Col, 56-57, asst. prof, 57-60, assoc. prof, 61-62; instr, Missouri, Columbia, 60-61; asst. prof, Southwest Mo. State Col, 62-65; ASSOC. PROF, Drury Col, 65-67; SOUTHEAST MO. STATE COL, 67- U.S.N, 36-40, U.S.N.R, 40-45. Sociol. Asn. Juvenile delinquency; socialization. Publ: Role and self-concept assessments of delinquents and nondelinquents, Sociol. Quart, summer 66. Address: Dept. of Sociology, Southeast Missouri State College, Cape Girardeau, Mo. 63701.

CHAPMAN, PROF. JAMES E(MORY), b. Atlanta, Ga, Mar. 15, 17; m. 50; c. 4. BUSINESS MANAGEMENT. B.C.S, Ga. State Col, 48; M.S, Ga. Inst. Tech, 50; Ph.D.(mgt-econ), Alabama, 56; Ford grant, Harvard, 59. Asst. prof. MGT, GA. STATE COL, 50-56, assoc. prof, 56-58, PROF, 58-, acting head dept, 56-57, head dept, 57-63. Dir. ed, Atlanta Chap, Am. Inst. Banking, 66- Consult, career & develop. sect, U.S. Civil Serv. Cmn. & personnel mgt. for execs, U.S. Dept. Army, 65- Chem.C, U.S.A, 42-45, 1st Lt. Publication of business cases, especially those involving inter-personal relationships; researching the pioneers of management thought. Publ: Prince Candy Company, In: Business policy cases, Irwin, 64, 66; Factors in industrial location

in metropolitan Atlanta—1946-1955, 57 & Pioneers of management thought, 65-66, Atlanta Econ. Rev. Address: Dept. of Management, Georgia State College, Atlanta, Ga. 30303.

CHAPMAN, PROF. JANET G(OODRICH), b. Brooklyn, N.Y, May 26, 22; m. 43; c. 1. ECONOMICS. B.A, Swarthmore Col, 43, Leedom fel, 46-47; Garth fel, Columbia, 46-47, univ. grant, 47-48, Am. Asn. Univ. Women fel, 48-49, cert. & M.A, 51, Ph.D.(econ), 63. Asst. wage analyst, Nat. War Labor Bd, Pa, 43; economist, bd. governors, Fed. Reserve Syst, 45-46; RES. CONSULT. SOVIET ECON, RAND CORP, 49-; PROF. ECON, PITTSBURGH, 67- Vis. lectr, Swarthmore Col, 62-63; vis. fel, res. sch. soc. sci, Sch. Adv. Studies, Australian Nat. Univ, 64; vis. assoc. prof, Pittsburgh, 64-65, lectr, 65-66, assoc. prof, 66-67, chmn, Cmt. Russian & E.European Studies, 65- Econ. Asn; Asn. Adv. Slavic Studies; Asn. Study Soviet-Type Econ. Wage policy and income distribution in the Union of Soviet Socialist Republics. Publ: Real wages in Soviet Russia since 1928, Harvard, 63; Consumption, In: Economic trends in the Soviet Union, Harvard, 63; Consumption in the Soviet Union, In: The soviet economy: a book of readings, rev. ed, Irwin, 66. Address: 223 Gladstone Rd, Pittsburgh, Pa. 15217.

CHAPMAN, DR. JEAN PAULSEN, b. Chicago, Ill, Oct. 31, 29; m. 53; c. 2. PSYCHOLOGY. B.S, Northwestern, 51, M.A, 56, Ph.D.(psychol), 60. Res. psychologist, col. med, Illinois, 52-57; lectr. PSYCHOL, Northwestern, 58-59; res. assoc, Kentucky, 59-62; asst. prof, Southern Illinois, 62-67; LECTR, WISCONSIN, MADISON, 67- Psychol. Asn; Psychomet. Soc. Statistics; mathematical learning theory; schizophrenia. Publ: Spacing of sequentially dependent trials in probability learning, J. Exp. Psychol; co-auth, A theory of verbal behavior in schizophrenia, In: Progress in experimental personality research, 64; The genesis of popular but erroneous psychodiagnostic observations, J. Abnorm. Psychol, 67. Address: Dept. of Psychology, University of Wisconsin, Madison, Wis. 53706.

CHAPMAN, PROF. J(OHN) D(ONERIC), b. Eng, July 24, 23; m. 45; c. 1. GEOGRAPHY. B.A, Oxford, 47, M.A, 49; fel, Washington (Seattle), 50-51, Ph.D, 58. Asst. prof. geol. & geog, BRITISH COLUMBIA, 47-55, assoc. prof. GEOG, 55-62, PROF, 62- R.A.F, 41-46, Flight Lt. Asn. Am. Geog; Can. Asn. Geog. Geography of energy and manufacturing. Publ: Co-ed, Atlas of British Columbia resources, B.C. Natural Resources Conf, 56 & Atlas of the United States and Canada, Oxford Univ, 67. Address: Dept. of Geography, University of British Columbia, Vancouver, B.C, Can.

CHAPMAN, DR. JOHN HOWARD, JR, b. Milwaukee, Wis, July 20, 32; m. 57; c. 3. ECONOMICS. B.S, Colorado, 57, Ph.D.(econ), 65. Res. assoc. ECON, bur. econ. res, Univ. Colorado, 63-65; regional res. inst, West Virginia Univ, 65-67, asst. prof, 65-67; ASSOC. PROF, COE COL, 67- Consult, Kansas State, 67-; bur. mines, U.S. Dept. Interior, 67- U.S.N, 50-51. Econ. Asn; Regional Sci. Asn. Input-output analysis; econometric model of production, both for United States economy and regional economies; building, testing and using models for specific regions; analyzing sectoral effects of United States fiscal policy with the 1958 national model. Publ: Co-auth, Impact of the space program on a local economy, 67 & Interindustry study of West Virginia-1965, 68, West Virginia Univ. Address: Dept. of Economics, Coe College, 1220 First Ave, N.E, Cedar Rapids, Iowa 52402.

CHAPMAN, PROF. JOHN W(ILLIAM), b. Providence, R.I. Jan. 7, 23; m. 43; c. 1. POLITICAL SCIENCE. A.B, Swarthmore Col, 43; Glider fel. & Ph.D. (polit. sci), Columbia, 54. Instr. govt, Columbia, 48-51; Smith Col, 51-55, asst. prof, 55-59; assoc. prof, PITTSBURGH, 59-66, PROF. POLIT. SCI, 66- Vis. instr, Swarthmore Col, 51-52, vis. assoc. prof, 62-63; Soc. Sci. Res. Coun. fel. polit. theory, 57-58; vis. prof, Bombay, 63-64; vis. fel, Australian Nat. Univ, 64; summers, vis. asst. prof, California, 57; vis. assoc. prof, Cornell, 62. Expert, Off. Aerospace Res, 67. U.S.A.A.F, 43-46, Res, 46-, Maj. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Political theory. Publ: Rousseau, totalitarian or liberal?; Justice and fairness, In: Justice: Nomos VI, Atherton, 63; Natural rights and justice in liberalism, In: Political theory and the rights of man, Macmillan, 67. Address: Dept. of Political Science, University of Pittsburgh, Pittsburgh, Pa. 15213.

CHAPMAN, PROF. LOREN J(AMES), b. Muncie, Ind, Jan. 5, 27; m. 53. PSYCHOLOGY. B.A, Harvard, 48; M.A, Northwestern, 52, Ph.D.(psychol), 54. Psychologist trainee, Vet. Admin. Hosp, Downey, Ill, 51-53; Vet. Admin. Ment. Hyg. Clin, Chicago, Ill, 53-54; U.S. Pub. Health Serv. res. fel, Chicago, 54-56, instr, 56-58, asst. prof, 58-59; assoc. prof. PSYCHOL, Kentucky, 59-63; PROF, Southern Illinois, 63-66; WISCONSIN, MADISON, 66- Lectr, Roosevelt, 54-55; Northwestern, 55-56. Adv. ed, J. Consult. Psychol, 63-; consult. ed, J. Abnormal Psychology, 64- Consult, Vet. Admin; Nat. Inst. Ment. Health, 66- Mem, ment. health study sect, Nat. Inst. Ment. Health, 66-67, clin. proj. res. rev. cmt, 67- U.S.A, 44-45. Psychol. Asn. Experimental psychopathology; schizophrenic thinking; personality theory. Publ: Distractibility in the conceptual performance of schizophrenics, 56 & Genesis of popular but erroneous psychodiagnostic observations, 67, J. Abnorm. Psychol; A theory of verbal behavior in schizophrenia, J. Personal & Soc. Psychol, 65. Address: Dept. of Psychology, University of Wisconsin, Madison, Wis. 53706.

CHAPMAN, DR. RICHARD L, b. Yankton, S.Dak, Feb. 4, 32; m. 55; c. 4. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.S, S.Dak. State, 54; Cambridge, 54-55; M.P.A, Syracuse, 58, Brookings Inst. fel, 64-65, Ph.D. (polit. sci), 67. Staff asst. logistics mgt, Off. Secy. Defense, 58-59; asst. dir. res, S.Dak. Legis. Res. Coun, 59-60; exam, U.S. Bur. Budget, 60-61; admin. officer & proj. mgr, adv. res. projs. agency, U.S. Dept. Defense, 61-63; exec. secy, Nat. Insts. Health, 65-66, 67-68; chief adv. govt. opers. subcmt. res. & tech. progs, U.S. House Rep, 66-67; PRFNL. STAFF MEM, NAT. ACAD. PUB. ADMIN, 68- U.S.A, 55-57, 1st Lt. AAAS; Soc. Pub. Admin; Polit. Sci. Asn. Science, technology and public policy; research and development management; management and technology. Publ: Ed, Readings in science and public policy, Nat. Insts. Health, 5/66 & 10/66; auth, Tirus-nimbus: administrative, political and technological problems of developing U.S. weather satellite, In: Federal science administration: politics and policy, Prentice-Hall, 68. Address: National Academy of Public Administration, 1225 Connecticut Ave. N.W, Washington, D.C. 20036.

CHAPMAN, DR. ROBERT L(YLE), b. Rugby, N.Dak, Aug. 25, 20; m. 42; c. 4. PSYCHOLOGY. B.S, North Dakota, 46, M.S, 47; Ph.D.(psychol), Chicago, 50. Tech. dir. human eng. proj, N.Y. Univ, 50-51; psychologist, Rand Corp, 51-57; mem. tech. staff, Hughes Aircraft Co, 57-58; mem. sr. staff, Ramo Wooldridge Div, Thompson Ramo Wooldridge, Inc, 58-62; mgr, command, mgt. & info. systs. dept, Hughes Aircraft Co, 62-65, resources mgt. & utilization dept, Meva Corp, 65-67; tech. asst. to dir. eng, missile syst. div, Atlantic Res. Corp, 67; SYST. CONSULT, 67- Consult, Am. Mgt. Asn, 57-58; McKinsey & Co, 57; eng. res. inst, Univ. Michigan, 57; Soc. Sci. Res. Coun, 57; man-mach. task group, psychol. & soc. sci, Dept. Defense, 58-60; working group human factors computerized systs, U.S. Air Force Sci. Adv. Bd, 60-61; Aviation Psychol. Lab, 60; indust. eng. dept, Ohio State, 60; res. group psychol. & soc. sci, Smithsonian Inst, 62-63; Off. Naval Res, 63; Inst. Defense Anal, 63; Syst. Develop. Corp, 66-67; Booz-Allen Appl. Res, Inc, 67-; Inst. Ed. Develop, 67-; dept. bus. orgn, Ohio State, 67. U.S.A, 42-46, Capt. AAAS; Soc. Gen. Syst. Res; Psychol. Asn; Psychomet. Soc; Human Factors Soc; Inst. Mgt. Sci. Systems and cost effectiveness analysis, system design and development; application of advanced technology to civil systems; educational systems and programmed learning, long-range planning. Publ: Co-auth, Computer techniques in instruction, In: Programmed learning and computer-based instruction, Wiley, 62; A method for generating information needed for system designers, Proc. Mil. Opers. Res. Symp, 62; The case for information system simulation, In: Information system sciences, Spartan, '65. Address: 17651 Iron Bark Way, Irvine, Calif. 92664.

CHAPMAN, DR. ROBERT M, b. Chicago, Ill, Aug. 29, 32; m. 58. EXPERIMENTAL PSYCHOLOGY. B.A, Oberlin Col, 54; M.Sc, Brown, 56, Ph.D. (psychol), 60. Asst. psychol, Brown, 54-56, 58-59; U.S. Pub. Health Serv. res. fel, Walter Reed Army Inst. Res, 60-61; RES. SCIENTIST, INST. BEHAV. RES, 61- U.S.A, 56-58, Res, 58- AAAS; Psychol. Asn; Optical Soc; Psychonomic Soc. Vision; motivation; learning; bio-electrical recording. Publ: Spectral sensitivity of single neural units in the bullfrog retina, J. Optical Soc. Am, 61; Evoked responses to numerical and non-numerical visual stimuli while problem solving, Nature, 64; Light wavelength and energy preferences of the bullfrog: evidence of color vision, J. Comp. & Physiol. Psychol, 66. Address: Institute of Behavioral Research, 2426 Linden Lane, Silver Spring, Md. 20910.

CHAPMAN, PROF. WARNER OLIVER, b. Norfolk, Virginia, Apr. 17, 19; m. 46; c. 4. POLITICAL SCIENCE. B.A, Virginia, 41, Ph.D.(polit. sci), 50. Instr. POLIT. SCI, INDIANA, 50-54, asst. prof, 54-62, assoc. prof, 62-66, PROF, 66-, DIR. HONORS DIV. & ASSOC. DEAN UNDERGRAD. DEVELOP, 67-, assoc. dean col. arts & sci, 62-67. U.S.M.C, 41-46, Col. Polit. Sci. Asn; Nat. Collegiate Honors Coun. Constitutional law and history; American political theory; national and state public law. Publ: Co-auth, Indiana licensing law, Indiana Univ, 53. Address: Dept. of Government, Woodbarn Hall, Indiana University, Bloomington, Ind. 47401.

CHAPMAN, DR. W(ILBERT M(cLEOD), Ichthyol, see 11th ed, Phys. & Biol. Vols.

CHAPPELL, DR. MATTHEW N(APOLEON), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 68.

CHAPPELL, DR. TOLAN L, b. Petersburg, Ind, Sept. 29, 24; m. 47; c. 2. PSYCHOLOGY. A.B, Hope Col, 49; A.M, Missouri, 51, Ph.D, 53. Res. assoc. psychol, Missouri, 53-54; asst. dir. personnel, Kentucky, 54-55; staff psychologist, WILLIAM, LYNDE & WILLIAMS, 55-60, PARTNER, 60- U.S.A, 43-46. Psychol. Asn; Personnel & Guid. Asn. Executive development; counseling; measurement. Publ: Differential prediction of achievement at the University of Missouri, Ed. & Psychol. Measurement; Note on the validity of the AGCT as a predictor of academic achievement, J. Ed. Psychol. Address: 1121 Rockinghorse Lane, La Habra, Calif. 90631.

CHAPPELLE, DR. DANIEL E(UGENE), b. Washington, D.C, Mar. 15, 33; m. 56; c. 3. FOREST ECONOMICS. B.S, Colorado State, 56; M.F, Duke, 59; Ph.D.(forestry econ), State Univ. N.Y. Col. Forestry, Syracuse, 65. Res. forester, southeast. forest exp. sta, U.S. Forest Serv, 56-61; res. asst. forestry econ, State Univ. N.Y. Col. Forestry, Syracuse, 61-64; economist, PAC. NORTHWEST FOREST & RANGE EXP. STA, 64-66, PRIN. ECONOMIST, 66- Econ. Asn; Statist. Asn; Economet. Soc. Economics of forest management; application of economic models in forestry. Publ: Co-auth, Estimation of optimal stocking levels and rotation ages of loblolly pine, Forest Sci, 64; auth, Economic model building and computers in forestry research, J. Forestry, 66; Financial maturity of eastern white pine in New York State, State Univ. N.Y. Col. Forestry, 66. Address: 4433 N.E. Failing St, Portland, Ore. 97213.

CHAPPLE, DR. ELIOT D(ISMORE), b. Salem, Mass, Apr. 29, 09; m. 31, 54; c. 2. ANTHROPOLOGY. A.B, Harvard, 31, Ph.D.(anthrop), 33. Asst. anthrop, bus. sch, Harvard, 31-35, instr, 35-39, instr. & tutor, dept. anthrop, 36-40, Arnold res. fel. contemporary civilization, 40-41, res. assoc, Harvard Med. Sch, 41-45; partner, Chapple Co, 45-47, pres, E.D. Chapple Co, Inc, 47-61; PRIN. RES. SCIENTIST, RES. FACILITY, ROCKLAND STATE HOSP, 61- Adj. prof, grad. sch. bus, Columbia, 59-60; chmn. bd, E.D. Chapple Co, Inc, 61- Admin. consult, Bur. of Budget, 42-43. Trustee, Found. Adv. Psychiat. Sci. Fel. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop.(pres, 41). Properties of individuals in interaction; properties of organizational systems. Publ: Co-auth, Principles of anthropology & Measure of management; auth, Measuring human relations: an introduction to the study of the interaction of individuals. Address: Research Facility, Rockland State Hospital, Orangeburg, N.Y. 10962.

CHARD, PROF. CHESTER S(TEVENS), b. New York, N.Y, Sept. 15, 15; m. 53; c. 3. ANTHROPOLOGY. A.B, Harvard, 37; Ph.D.(anthrop), California, 53. Instr. ANTHROP, Washington (Seattle), 54-55, vis. asst. prof, 55-56; lectr, WISCONSIN, 58-59, asst. prof, 59-60, assoc. prof, 60-63, PROF, 63- U.S.N.R, 42-46, Lt. Fel. AAAS; fel. Am. Anthrop. Asn; Asn. Asian Studies; Soc. Archaeol; Arctic Inst, N.Am; fel. Anthrop. Inst. Gt. Brit. & Ireland; Prehist. Soc, Gt. Brit. Prehistory and culture history of Soviet Union and northeastern Asia; Old World origins and relationships of New World cul-

tures. Publ: Kamchadal culture; Outline of the prehistory of Siberia, Southwest. J. Anthrop; Preceramic cultures in Japan, Am. Anthropologist. Address: Dept. of Anthropology, University of Wisconsin, Madison, Wis. 53706.

CHARDON, DR. ROLAND E, b. Boston, Mass, Apr. 15, 29; m. 60. CULTURAL GEOGRAPHY. B.A, Minnesota, 51, Ph.D, 61; M.S, Fla. State, 54. Instr. geog, Iowa, 56-58; asst. prof, Ohio State, 59-63, Vanderbilt, 63-66, assoc. prof, 66-68, dir. Vanderbilt-in-France Prog, 65-66; ASSOC. PROF. GEOG, LA. STATE, 68- For. field res. grant, Nat. Acad. Sci-Nat. Res. Coun, 58-59; vis. prof, Wisconsin, Milwaukee, 67; summers, vis. lectr, Minnesota, 61, Nat. Defense Ed. Act. res. grant, Texas, 62, Vanderbilt Univ. travel res. grants, Brazil, 63-64, Spain & Portugal, 65. Asn. Am. Geog; Geog. Soc; Latin Am. Studies Asn; Cultural geography of North and South America; plantation agriculture; geography of population. Publ: Geographic aspect of plantation agriculture in Yucatan, Nat. Acad. Sci, 61; Hacienda and ejido in Yucatan: the example of Santa Ana Cuca, Ann. Asn. Am. Geog, 53: 174-193; Changes in the geographic distribution of population in Brazil, 1950-1960, In: New perspectives of Brazil, Vanderbilt, 66. Address: Dept. of Geography, Louisiana State University, Baton Rouge, La. 70803.

CHAREN, DR. SOL(OMON), b. Cleveland, Ohio, July 19, 12; m. 39. PSYCHOLOGY. B.A, Western Reserve, 35; M.A, Pittsburgh, 38; M.A, Catholic Univ, 53. Ph.D.(clin. psychol), 55. Asst. chief psychologist, Vet. Admin. Ment. Hyg. Clin, Baltimore, Md, 46-51; employee rel. asst, Soc. Security Bd. 51-52; psychol. intern, Vet. Admin. Hosp, 53-55; chief clin. psychologist, Montgomery County Ment. Health Clin, 55-56; chief psychologist, JEWISH SOC. SERV. AGENCY, WASH, D.C, 56-62, CLIN. DIR, 62- Private practice, 50- Lectr, sch. soc. work, Howard, 50-51. Consult, Jewish Big Brothers of Baltimore, Md, 50-51; dept. pediat, sch. med, Harvard, 67- U.S.A, 43-46. Psychol. Asn. Projective testing; children. Address: 8736 Preston Place, Chevy Chase, Md. 20015.

CHARIPPER, DR. BRET A(DOLPH), b. New York, N.Y, May 25, 32; m. 55; c. 2. PSYCHOLOGY. B.A, Columbia, 54, M.A, 55; Ph.D.(psychol), Ohio State, 62. Scientist, elec. boat div, Gen. Dynamics Corp, 57-59; asst. psychol, Ohio State, 59-61, res. assoc, 61-62; staff engr, fed. systs. div, INT. BUS. MACH. CORP, 62-64, staff psychologist, ADV. SYSTS. DEVELOP. DIV, 64-65, adv. psychologist, 65-68, MGR. HUMAN FACTORS ENG. DEPT, 68- U.S.N.R, 55-57, Lt.(jg). Psychol. Asn; Human Factors Soc. Vehicle and computer systems design and development. Address: Dept. 932, Advanced Systems Development Division, International Business Machines Corp, Yorktown Heights, N.Y. 10514.

CHARLES, PROF. DON C(LAUDE), b. St. Joseph, Mo, Apr. 22, 18; m. 47; c. 4. PSYCHOLOGY. B.A, Iowa State Teachers Col, 41; M.A, Nebraska, 47, Ph.D.(ed, psychol), 51. Guid. consult, jr. div. & couns. serv, Nebraska, 48-51; asst. prof. PSYCHOL, IOWA STATE, 51-55, assoc. prof, 55-59, PROF, 59- U.S.A, 42-46, Lt. Psychol. Asn; Human Factors Asn. Human factors engineering; systems analysis; research and development planning; program management. Publ: Incidence of fractured vertebrae in U.S. Naval aircraft accidents, J. Aviation Med, 53; co-auth, The distance gradient in kinesthetic figural aftereffect, J. Exp. Psychol, Vol. 57, 3. Address: Office of the Chief of Naval Operations (OP 701H), U.S. Navy Dept, Washington, D.C. 20350.

CHARLES, PROF. KOILPILLAI JESUDAS, b. India, Apr. 6, 26; m. 54; c. 3. ECONOMICS. B.A, Univ. Madras, India, 48, M.A, 52; Ph.D, McGill, 58. Supvr. indust. surv, res. div, Indian Planning Cmn, 52-54; prof. ECON. & head dept, Am. Col, Madras Univ, 54-56; lectr, McGill, 58-59; asst. prof, Manitoba, 59-67; PROF. & CHMN. DEPT, LAKEHEAD, 67- Fel. Royal Econ. Soc. Economic development. Publ: Myth of inflation, Univ. Manitoba, 67; Capital efficiency and economic growth, Econ. Affairs, 1/67; Keynes and the developing economies, South. Economist, (in press). Address: Dept. of Economics, Lakehead University, Port Arthur, Ont, Can.

CHARLES, PROF. M(ILTON) R(OSS), b. Nanking, China, Mar. 21, 19; U.S. citizen; m. 43; c. 2. SOCIOLOGY. B.A, California, Los Angeles, 39; M.A, Stanford, 46, Ph.D.(ed. sociol), 53. Asst. prof. sociol, Fla. State, 46-48; assoc. prof. ed. & sociol, Col. Idaho, 50-55; from asst. prof. to assoc. prof, soc. sci, Ore. Col. Ed, 55-61, PROF, 61-66; SOCIOL, WIS. STATE, SUPERIOR, 66- Sociol. Asn. Educational sociology; cultural anthropology; family. Publ: A preface to education, Macmillan, 65. Address: Dept. of Sociology, Wisconsin State University, Superior, Wis. 54880.

CHARLESWORTH, DR. HAROLD K, Econ, see 10th ed, Soc. & Behav. Vols.

CHARLESWORTH, PROF. JAMES C(LYDE), b. Greensburg, Pa, May 21, 00; m. 28, 46; c. 4. POLITICAL SCIENCE. A.B, Pittsburgh, 26, A.M, 27, Ph.D, 32; Harvard, 28. Asst. prof. polit. sci, Pittsburgh, 33-35, assoc. prof. & supvr. govt. serv. course, 35-39; assoc. prof. polit. sci, PENNSYLVANIA, 39-45, dir. surv. ed. prog, inst. local & state govt, 39-55, grad. div, Wharton Sch, 42-43, PROF. POLIT. SCI, UNIV, 45- Secy. admin, Commonwealth of Pa, 55-56. U.S.A, 43-46, Lt. Col; Legion of Merit, 45. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci.(acting ed, Ann, 50-51, pres, 53-). Public administration. Publ: Governmental administration; ed, Contemporary political analysis, Macmillan, 67 & The changing American people: are we deteriorating or improving?, Ann. Am. Acad. Polit. & Soc. Sci, 7/68. Address: 3937 Chestnut St, Philadelphia, Pa. 19104.

CHARLESWORTH, DR. WILLIAM RICHARD, b. Allentown, Pa, May 11, 30; m. 55; c. 3. CHILD PSYCHOLOGY. B.A, Muhlenberg Col, 52; M.A, Wesleyan, 58; Ph.D.(child psychol, family rels), Cornell, 62. From asst. prof. child psychol. to ASSOC. PROF. CHILD DEVELOP, INST. CHILD DEVELOP, MINNESOTA, MINNEAPOLIS, 61-, prin. investr, grad. sch. found. grant, 63-64. Prin. investr, U.S. Pub. Health Serv. grant, 64-68. Intel.C, U.S.A, 53-56. AAAS; Soc. Res. Child Develop; Psychol. Asn. Child development; cognitive development; infancy and ethology, motivation; learning. Publ: The investigation and maintenance of curiosity behavior as a function of surprise versus novel and familiar stimuli, 64 & Persistence of overting and attending behavior in infants as a function of stimulus locus uncertainty, 66, Child Develop; The role of surprise and expectancies in cognitive development, In: A Festschrift for Piaget, (in press). Address: Institute of Child Development, University of Minnesota, Minneapolis, Minn. 55455.

CHARLIER, DR. PATRICIA MARY SIMONET, b. Enderlin, N.Dak, July 11, 23; m. 58; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Minnesota, 44, M.A, 58, univ. fel. & Pi Lamda Theta scholar, 59-60, Ph.D, 60; summer, Univ. Aix Marseilles, 58; Paris, 58-59; Bordeaux, 59. Teacher, high sch, Minn, 44-47, librn. & teacher, 47-49, prin, 49-56; instr. ed. psychol, Minnesota, 56-57, asst. prin. univ. high sch. & instr. ed. psychol, 57-58, admin. fel, off. admissions & records, 59-60; assoc. prof. psychol. & ed, Parsons Col, 60-61; psychol, Chicago Teachers Col-South, 61-64; vis. prof. Loyola (Ill), 64-65; ASSOC. PROF. ED. PSYCHOL, ILLINOIS, CHICAGO, 65- Teaching fels, Minnesota, 56-58; summers, vis. prof, Western New Mexico, 63-66, Baja California, 67. Consult, div. ed. travel, Nat. Ed. Asn, 62-64; bur. ed. travel, univ. travel, Chicago, 63-67, travel hq, div. ed. travel, 67- Assoc. dir, ed. travel seminars, Western New Mexico, 64-66. AAAS; Psychol. Asn; Comp. Ed. Soc; Nat. Ed. Asn. Comparative education in Western Europe, in relation to teachers training and psychology of education; educational statistics; educative process; educational travel as a means to better and more realistic instruction. Publ: Contemporary teachers training in France and Belgium, Univ. Minnesota, 60; Junior college teacher-preparation and identifying characteristics, Ed. Horizons, 63; co-auth, American academe, educational travel and study abroad, Bur. Ed. Res, Chicago Teachers Col-North, 65. Address: Dept. of Educational Psychology, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

CHARLIER, DR. ROGER H(ENRI), Geol, Geog, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CHARLTON, PROF. HUEY E(DWARD), b. Barnwell, S.C, July 9, 16; m. 46. PSYCHOLOGY. A.B, Fla. Agr. & Mech. Univ, 40; Ed.M, Temple, 48; Ed.D, 58. Dir. teacher ed, Allen, 49-52, prof. ed, 54-59, v.pres, 59-60; prin, Fairfield County Training Sch, S.C, 52-54; ASSOC. PROF. PSYCHOL. & ED, ATLANTA, 60- U.S.A.A.F, 41-46, 1st Lt. Psychol. Asn; Personnel & Guid. Asn. Family relations; training of school counselors. Publ: College testing program & Education for complete living, Allen Univ. Res. Bull. Address: 3785 Wisteria Lane S.W, Atlanta, Ga. 30331.

CHARLTON, PROF. J(ESSE) L(AURENCE), b. Dillwyn, Va, Aug. 26, 04; m. 31; c. 3. RURAL SOCIOLOGY. B.A, Richmond, 26; M.A, North Carolina, 27; Ph.D.(sociol), La. State, 48. Asst, Mich. State, 31-34, jr. soc. economist, U.S. Bur. Labor Statist, 34-35; spec. investr, Nat. Recovery Admin, 35-36; res. supvr, Resettlement Admin, 36-37; instr. RURAL SOCIOL, ARKANSAS, 37-42, asst. prof, 42-47, assoc. prof, 47-55, PROF, 55- Rural Sociol. Soc. Land tenure; population; rural community organization. Publ: Contrib. auth, Rural land tenure in the United States, La. State Univ, 62; auth, Land tenure in the Arkansas coastal plain & co-auth, Employment and unemployment of rural people in the Ozarks, Univ. Ark. Agr. Exp. Sta. Bull. Address: Dept. of Agricultural Economics & Rural Sociology, University of Arkansas, Fayetteville, Ark. 72701.

CHARNER, HILLIARD D(ANIEL), b. New York, N.Y, Feb. 4, 22; m. 45; c. 2. ECONOMIC STATISTICS. B.A, Brooklyn Col, 42; Stanford, 43; M.B.A, N.Y. Univ, 48. Statist. analyst, Gen. Aniline & Film Corp, 46-49; sr. econ. analyst, Continental Can Co, 49-51, supvr. econ. anal, 51-54, asst. mgr. commercial res, 55-62; v.pres. & dir. sales admin, Econ. Planning Corp, 62-63; V.PRES, MOD. SECURITY PLANNING CORP, 63- Lectr, City Col. New York, 50-51; grad. sch. bus, N.Y. Univ, 53. U.S.A.A.F, 43-46. Econ. Asn; Statist. Asn; Mkt. Asn; Opers. Res. Soc; Asn. Bus. Econ. Marketing economics; statistical techniques; operations research; sales management; life insurance and mutual funds. Address: 61-06 255th St, Little Neck, N.Y. 11362.

CHARNES, DR. A(BRAHAM), Math, see 11th ed, Phys. & Biol. Vols.

CHARNES, DR. GEORGE, Psychol, see 10th ed, Soc. & Behav. Vols.

CHARNLEY, PROF. MITCHELL V(AUGHN), b. Goshen, Ind, Apr. 9, 98; m. 37; c. 2. JOURNALISM. A.B, Williams Col, 19; A.M, Washington (Seattle), 21. Asst. prof, Iowa State Col, 30-31, assoc. prof, 31-34; asst. prof. JOURNALISM, MINNESOTA, MINNEAPOLIS, 34-37, assoc. prof, 37-40, PROF, 40-, asst. dean col. arts, 58-63. Vis. prof, Stanford, 44; Fulbright lectr, Florence, Italy, 52-53. Asn. Ed. Journalism (2nd v.pres, 56, pres, 59); Coun. Radio-TV Journalism. Accuracy and ethics of news reporting; development and control of broadcasting journalism; magazine writing and editing. Publ: News by radio; Magazine writing and editing; Reporting, Holt, 59 & rev. ed, 66. Address: 88 Orlin Ave. S.E, Minneapolis, Minn. 55414.

CHARNY, DR. E(UGENE) JOSEPH, Psychiat, see 11th ed, Phys. & Biol. Vols.

CHARNY, DR. ISRAEL W(OLF), b. Bronx, N.Y, July 18, 31; m. 57. PSYCHOLOGY. A.B, Temple, 52; Ph.D.(clin. psychol), Rochester, 57. Trainee clin. psychol, Vet. Admin, 52-56; sch. psychologist, bd. ed, Rochester, 56-58; chief psychologist, Oakbourne Hosp, West Chester, 58-62; private practice, 58-; dir, Guid. Consults, 62- Vis. instr, Rochester, 56, lectr, 57. Consult, Jewish Family Serv, Phila, 63-; Solomon Schechter Day Sch, Phila, 64-; Family Serv, Chester County, 65- Coordinator group one, Group for Res. Psychol. Aggression & Nonviolence, 66- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn; Orthopsychiat. Asn; Acad. Psycho-

ther; Int. Peace Res. Asn. Developing educational procedures for teaching children and adults a commitment to nonviolence based on psychotherapeutic principles of acceptance of aggresive feelings and nonviolent self-assertiveness; child, adult, family and group psychotherapy. Publ: The psychotherapist as teacher of an ethic of nonviolence, Voices: the art and science of psychotherapy, in press; Regression and reorganization in the isolation treatment of children: a clinical contribution to sensory deprivation research, J. Child Psychol. & Psychiat, 4:47-60; Integrated individual and family psychotherapy, Family Process, 5:179-198. Address: Station Square One, Paoli, Pa. 19301.

CHARTENER, DR. WILLIAM H(USTON), b. Monessen, Pa, Oct. 25, 24; m. 56; c. 1. ECONOMICS. B.A, Haverford Col, 45; Lehman fel, Harvard, 45-46, M.A, 47, univ. fel, 48-49, Ph.D.(econ), 52. Instr, Buffalo, 47-48; Ed. Res. Reps, D.C, 49-51; from sect. chief to consult, Wage Stabilization Bd, 51-53; economist, McGraw-Hill Pub. Co, 53-59; Stanford Res. Inst, 59-64; Goldman, Sachs & Co, N.Y, 65-68; ASST. SECY. COMMERCE ECON. AFFAIRS, 68- Mem. econ. adv. bd, Secy. Commerce, 67; Tech. Consult. Bus. Coun, 67. Econ. Asn; Statist. Asn; fel. Nat. Asn. Bus. Econ.(ed, Bus. Econ, 65-66, v.pres, 66-67, pres, 67-68); Finance Asn. Public policy; economic forecasting; finance. Address: 3727 Chesapeake St. N.W, Washington, D.C. 20016.

CHARTERS, BRO. CLEMENT FRANCIS, F.S.C, Math, Statist, see 10th ed, Soc. & Behav. Vols.

CHARTERS, PROF. W(ERRETT) W(ALLACE), JR, b. Pittsburgh, Pa, Dec. 22, 21; m. 51; c. 1. SOCIAL PSYCHOLOGY. A.B, DePauw, 44; Ph.D.(soc. psychol), Michigan, 52. Asst. study dir. surv. res. center, Michigan, 49-50; asst. prof. ed, bur. ed. res, Illinois, 50-56; assoc. prof. ed. & sociol, Washington (St. Louis), 56-64, prof. ed. & lectr. sociol, 64-66, acting dir. grad. inst. ed, 63; PROF. ED, OREGON, 66-, RES. ASSOC, CENTER ADV. STUDY ED. ADMIN, 66- U.S. Off. Ed. Coop. res. prog. grant, 61-63; res. assoc, Center Res. in Careers, 64. Fel. Psychol. Asn; fel. Sociol. Asn; Ed. Res. Asn; Soc. Appl. Anthrop. Sociology of education; organization theory. Publ: Co-auth, Readings in the social psychology of education, Allyn & Bacon, 63; auth, Social background of teaching, In: Handbook of research in teaching, Rand McNally, 63. Address: Center for Advanced Study of Educational Administration, University of Oregon, Eugene, Ore. 97403.

CHARTIER, ROGER, b. Sherbrooke, Que, Aug. 12, 25; m. 51; c. 5. SOCIOLOGY, INDUSTRIAL RELATIONS. B.A, St. Charles Col, Can, 46; Brazilian Govt. fel, 49, 50; M.A, Laval, 50; Imp. Oil Res. fel, 50-53; McKenzie King Traveling fel, Chicago, 54, Johns-Manville fel, 54-55. Asst. to personnel mgr, Brazilian Traction, 50-51; asst. prof. adult ed. in indust. rel, Laval, 51-53, indust. rel, 55-60, assoc. prof, 60-62; GEN. MGR. PERSONNEL, QUEBEC HYDRO-ELECTRIC CMN, 62- Sociol. Asn; Indust. Rel. Res. Asn; Can. Polit. Sci. Asn. Ethnic and economic mill-community relations; personnel techniques; sociology of industrial conflict and work; labor legislation and arbitration; management rights and collective bargaining. Publ: Législation du travail, liberté, peur et conflit & Collective bargaining and management rights, Indust. Rels; Problèmes du travail féminin. Address: Quebec Hydro-Electric Commission, 75 W. Dorchester Blvd, Montreal, Que, Can.

CHASDI, PROF. ELEANOR H(OLLENBERG), b. Brooklyn, N.Y, Oct. 2, 27; m. 52; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 48; M.A, Iowa, 49; Ph.D. (psychol), Harvard, 53. Res. assoc, sch. ed, Harvard, 51-52, sch. pub. health, 52-53; from mem. faculty to assoc. prof. PSYCHOL, WHEELOCK COL, 53-64, PROF, 64- Child psychology; interdisciplinary approach to human behavior. Publ: Co-auth, Some antecedents of aggression and effects of frustration in doll play, Personality; The learning of values, In: People of Rimrock, Harvard, 66. Address: 89 Rawson Rd, Brookline, Mass. 02146.

CHASE, ARNOLD ERVIN, b. Abilene, Kans, Jan. 31, 10; m. 33; c. 1. AGRICULTURAL ECONOMICS, SOCIOLOGY. B.S, Kansas State, 31, M.S, 38; U.S. Dept. Agr. Grad. Sch, 36-37; Brookings Inst, 37. Asst. statistician & economist, bur. labor statist, U.S. Dept. Labor, 38-40, assoc. economist, 40-41, asst. chief div, 41-42, construct. statist, 46-49; sect. chief construct. econ, off. domestic commerce, U.S. Dept. Commerce, 49-50; chief br. bldg. mat, Nat. Prod. Authority, 50-52; prog. administr. mil. construct, Off. Secy. Defense, 52-55; chief div. construct. statist, BUR. LABOR STATIST, U.S. DEPT. LABOR, 55-60, CHIEF DIV. PRICES & COST OF LIVING, & ASST. CMNR. PRICES & LIVING CONDITIONS, 60- Consult, Am. Inst. Banking, 46-59. U.S.A, 42-46, Lt. Col. Statist. Asn; Econ. Asn. Housing and construction effects on general economic activity; relationship of monetary and fiscal policies to price trends; consumption studies; levels of living; living conditions. Publ: Concepts and uses of price indexes, 60, Changing patterns of consumer expenditures, 63 & Statistical problems of poverty, 65, Am. Statist. Asn. Proc. Address: U.S. Dept. of Labor, Bureau of Labor Statistics, Washington, D.C. 20212.

CHASE, DR. DONALD A(NDREW), b. Swampscott, Mass, Nov. 14, 26; m. 50. BUSINESS MANAGEMENT. A.B, Tufts, 49, A.M, 50; Ph.D.(sociol), Maryland, 56. Asst. prof. sociol, Tampa, 52-56; assoc. prof, Miss. South. Col, 56-58; dir. consumer res, Kimberly-Clark Corp, 58-66; PRES, CHASE & ASSOC, INC, 66- U.S.N, 44-46. Mkt. Asn. Research methodology; advertising; qualitative research. Address: Chase & Associates, Inc, 7979 Old Georgetown Rd, Bethesda, Md. 20014.

CHASE, PROF. EUGENE P(ARKER), b. New Britain, Conn, Apr. 19, 95. POLITICAL SCIENCE. A.B, Dartmouth Col, 16; Rhodes scholar, Oxford, 16-19, B.A, 19, M.A, 48; A.M, Harvard, 21, Ph.D, 24. Asst. prof. hist. & govt, Wesleyan, 23-26; from assoc. prof. to prof. govt, LAFAYETTE COL, 26-52, prof. CIVIL RIGHTS, 52-63, EMER. PROF, 63- Officer, U.S. Dept. State, 43-46; vis. prof, Virginia, 50-51; Fulbright lectr, Nice, summer 55 & 57. Polit. Sci. Asn; Hist. Asn. Democratic governments in Europe; United Nations non-self-governing territories; government of the Republic of Ireland. Publ: Our revolutionary forefathers: the letters of François Barbé-Mavbois; English government and politics; United Nations in action. Address: 312 March St, Easton, Pa. 18042.

CHASE, DR. GERALD R, b. Janesville, Wis, Oct. 16, 38; m. 61; c. 2. STATISTICS. B.S, Beloit Col, 61; M.S, Stanford, 63, Ph.D.(statist), 66. ASST. PROF. STATIST. & COMMUNITY HEALTH, MISSOURI, 66- Inst. Math. Statist; Statist. Asn; Biomet. Soc. Bioassay, non-parametric methods and analysis of variance; experimental design and statistical inference. Publ: Co-auth, A graph of sample sizes for retrospective studies, Am. J. Pub. Health, 12/65. Address: Dept. of Statistics, University of Missouri, Columbia, Mo. 65201.

CHASE, PROF. GILBERT, Music, Fine Arts, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CHASE, PROF. HAROLD WILLIAM, b. Worcester, Mass, Feb. 6, 22; m. 44; c. 2. POLITICAL SCIENCE. A.B, Princeton, 43, A.M, 48, Ph.D, 54. Instr. polit. sci, Delaware, 48-49, asst. prof, 49-50; lectr. pub. affairs, Princeton, 52-54, asst. prof, 54-57; assoc. prof. POLIT. SCI, MINNESOTA, MINNEAPOLIS, 57-61, PROF, 61- Dir. res. proj. on fed. judges, Brookings Inst, 60-; vis. prof, Columbia, 63-64; Nat. War Col, 65-66; Chicago, 66-67. Polit. sci. adv. ed, Charles Scribner's Sons, 60- U.S.M.C, 42-46, 50-52, Res, 52-, Col. Polit. Sci. Asn. Public law; national security policy. Publ: Liberty and security, Random, 55; co-auth, The case for democratic capitalism, 64 & ed, Kennedy and the press, 65, Crowell. Address: 124 Bedford St. S.E, Minneapolis, Minn. 55414.

CHASE, PROF. HARRISON V(ERNON), b. Big Rapids, Mich, Aug. 17, 13; m. 32; c. 1. GEOGRAPHY. A.B, Michigan, 35, M.A, 39, Rackham fel, 46. Teacher, high sch. & jr. col, Mich, 37-42; instr. geog, Syracuse, 42-43; res. analyst, Off. Strategic Serv, D.C, 43-45; asst. prof. GEOG, FLA. STATE, 47-65, ASSOC. PROF, 65-, INSTRUCTIONAL CHMN. SOC. SCI, 63- Geography of Japan; political geography; critical resources. Publ: Co-auth, A preface to the social sciences & Chases' calendar of annual events, special days, weeks and months. Address: Dept. of Geography, Florida State University, Tallahassee, Fla. 32306.

CHASE, DR. JOHN L, b. New Haven, Conn, May 2, 18; m. 53; c. 3. POLITICAL SCIENCE. A.B, Harvard, 39, M.A, 40; Ph.D.(polit. sci), Princeton, 52. Asst. prof. polit. sci, Brown, 50-53; vis. lectr, North Carolina, 53-55; vis. assoc. prof. govt, La. State, 55-56; Ford Found. fel. int. rels, Princeton, 56-57; vis. assoc. prof. govt, Indiana, 57-58; with U.S. OFF. ED, DEPT. HEALTH, ED. & WELFARE, 58-60, specialist grad. ed, 60-62, chief arts & sci. sect, 62-64, chief planning & reports staff, div. grad. progs, 65-66, PLANNING SPECIALIST, PLANNING, EVAL. & REPORTS STAFF, BUR. HIGHER ED, 66- Polit. Sci. Asn. Supply of and demand for highly-trained manpower in the United States; institutional and regional output of doctoral graduates; general trends in graduate education. Publ: A directory of graduate deans at United States universities, 1872-1965, U.S. Govt. Printing, 66; Unconditional surrender reconsidered, Polit. Sci. Quart, 6/55; The numbers game in graduate education, J. Higher Ed, 3/64. Address: 903 Chalfonte Dr, Alexandria, Va. 22305.

CHASE, DR. PHILIP HOWE, b. Omaha, Nebr, Feb. 15, 25; m. 48; c. 2. CLINICAL PSYCHOLOGY. A.B, Dartmouth Col, 50; M.A, Colorado, 54, Ph.D, 56. Clin. psychologist, Vet. Admin. Hosp, St. Cloud, Minn, 56-59, chief psychol. serv, 59-60; psychologist personnel res. & manpower develop, Pillsbury Co, 60-62; consult. psychologist, Mgt. Psychol. & Co, 62-63; ASST. TO CHMN, AM. CAN CO, 63- U.S.N, 43-46. Psychol. Asn. Personality; perception; organization and manpower development. Address: American Can Co, 100 Park Ave, New York, N.Y. 10017.

CHASE, DR. RICHARD XAVIER, b. New York, N.Y, Aug. 18, 32; m. 59; c. 2. ECONOMICS. B.S, N.Y. Univ, 57; M.B.A, Maryland, 59, Ph.D.(econ), 66. Instr. bus, Northern Illinois, 59-62; teaching asst. ECON, Maryland, 62-65, lectr, 66; res. assoc, Inst. Defense Anal, 65-66; ASST. PROF, VERMONT, 66- Nat. Sci. Found. summer res. fel, 64. U.S.A.F, 51-52. Econ. Asn. Labor and manpower economics; history of economic thought; economic development and history; economic theory. Publ: Wormser's reflections on taxation: some critical comments, Am. Bar Asn. J, 8/67; Anti-poverty policy: hypotheses explaining the rate of poverty reduction, Am. J. Econ. & Sociol, 1/68. Address: Dept. of Economics, University of Vermont, Burlington, Vt. 05401.

CHASE, PROF. SAMUEL B(ROWN), JR, b. Great Falls, Mont, Feb. 21, 32; m. 53; c. 4. ECONOMICS, FINANCE. A.B, Dartmouth Col, 54; Ph.D.(econ), California, Berkeley, 60. Instr. econ, Illinois, 57-59; financial economist, Fed. Reserve Bank of Kansas City, 59-62, fiscal economist, off. financial anal, U.S. Dept. Treas, 62-63; assoc. prof. econ, Maryland, 63-64; sr. staff mem, Brookings Inst, 64-67; PROF. ECON, MONTANA, 67- Dir, Maryland Tax Study, 63-64. Econ. Asn. Publ: Asset prices in economic analysis, Univ. California, 63; Ed, Problems in public expenditure analysis, Brookings Inst, 68; auth, Tax credits for investment spending, Nat. Tax J. Address: Dept. of Economics, University of Montana, Missoula, Mont. 59801.

CHASE, DR. STUART, b. Somersworth, N.H, Mar. 8, 88; m. 14, 30; c. 2. ECONOMICS, SOCIAL SCIENCE. S.B, Harvard, 10; hon. Litt.D, American Univ, 49. Partner, Harvey S. Chase & Co, 10-17; investr, Fed. Trade Cmn, 17-20; mem, Labor Bur, Inc, N.Y, 21-30; RES. & WRITER, 30- With U.S. Food Admin, 18-19. Consult, U.S. Dept. Treas; Securities & Exchange Cmn; U.S. Nat. Resources Bd; Tenn. Valley Authority; Govt. of Puerto Rico; UNESCO. Mem. cultural exchange prog, Russia, 61. AAAS; Econ. Asn. Communications and semantics: human and labor relations. Publ: Proper study of Mankind; Some things worth knowing; The most probable world, Harper, 68. Address: Georgetown, Conn. 06829.

CHASEN, SYLVAN HERBERT, Math. Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

CHASSAN, DR. JACOB B(ERNARD), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

CHASSELL, DR. JOSEPH OLIN, b. Iowa Falls, Iowa, June 13, 00; m. 22, 44; c. 4. PSYCHOLOGY. A.B, Cornell Col, 19; dipl, Union Theol. Sem, 21;

M.A, Columbia, 20, Ph.D.(ed), 28; M.D, Rochester, 31. Asst. psychol, Columbia, 19-20; instr, Union Theol. Sem, 22-25; physician, Sheppard-Pratt Hosp, 31-38; psychiatrist, Bennington Col, 39-48; lectr, Washington Sch. Psychiat, 48; PSYCHIATRIST, AUSTEN RIGGS CENTER, 48- U.S.A, 18. Fel. Psychiat. Asn; fel. Orthopsychiat. Asn; Psychoanal. Asn. Psychodynamics; factors in personality formation; theory of psychotherapy. Address: Austen Riggs Center, Stockbridge, Mass. 01262.

CHASTAIN, DR. ELIJAH D, JR, b. Pickens, S.C, Sept. 26, 25; m. 56. ECONOMICS. B.S, Clemson, 47; M.S, Cornell, 48; Ph.D.(agr. econ), Purdue, 56. Instr. math, pub. schs, S.C, 49; assoc. exten. prof. agr. econ, Va. Polytech, 49-54; asst, Purdue, 54-56; assoc. prof. agr. econ. & researcher, AUBURN, 56-63, PROF. ECON. & BUS, 63- Ford fel, Duke, 61; Gen. Elec. fel, Chicago, 64. C.Eng, 44-46, 47, 50-52, Res, 52-57, Capt. AAAS; Econ. Asn; Agr. Econ. Asn. Economic development; national income analysis. Publ: Farm management concepts and principles; co-auth, Farm business management, Auburn Printing Co, 66; auth, Incentives in economic development, 64. Address: Dept. of Economics, Auburn University, Auburn, Ala. 36830.

CHASTEEN, DR. EDGAR, b. Cleburne, Tex, Nov. 16, 35; m. 57; c. 3. SOCIOLOGY. B.S, Sam Houston State Col, 57, M.A, 59; Texas, 60-61; fel, Inst. Community Studies, 64; Ph.D.(sociol), Missouri, 65. Instr. SOCIOL, Southwest State Col.(Okla), 61-63; Missouri, 63-64; ASSOC. PROF, WILLIAM JEWELL COL, 65-; RES. ASSOC, INST. COMMUNITY STUDIES, 64- Sociol. Asn. Urban sociology; race relations; community. Publ: Mental health in the community: a follow-up study of former mental patients, Inst. Community Studies, 67; How much power for the poor, Focus Midwest, 66; The government should limit births, Home Missions, summer 68. Address: Dept. of Sociology, William Jewell College, Liberty, Mo. 64068.

CHATFIELD, JENNIFER, Anthrop, see 10th ed, Soc. & Behav. Vols.

CHATHAM, GEORGE N, Psychol, Eng, see 11th ed, Phys. & Biol. Vols.

CHATTERJEE, PROF. MANMATHA NATH, Soc. Sci, see 9th ed, Soc. & Behav. Vols, deceased 64.

CHATTERJEE, PROF. SAMPRIT, b. Calcutta, India, June 3, 38; m. STATISTICS, OPERATIONS RESEARCH. B.S. & M.S, Calcutta, 60; D. Stat, Cambridge, 62; fel, Harvard, 63-65, Ph.D.(statist), 66. Instr. statist, Boston, 62-63; res. asst, Harvard, 63-65; ASST. PROF. STATIST. & OPERS. RES, N.Y. UNIV, 66- Consult, Mass. Ment. Health Center, 63-65. Opers. Res. Soc. Am; Inst. Math. Statist; Statist. Asn; Biomet. Soc. Sample survey; non linear programming; problems of classification and discrimination; psychological statistics. Publ: Co-auth, Side effects and double blind studies, J. Psychiat. Res, 66; auth, A note on optimum allocation, Skand. Aktöl, 68; Multivariate stratified surveys, J. Am. Statist. Asn, 68. Address: Quantitative Analysis, New York University, 68 Trinity Place, New York, N.Y. 10006.

CHATTERJI, DR. MANAS, b. Calcutta, India, Oct. 13, 37; m. 66; c. 1. ECONOMICS, REGIONAL PLANNING. B.A, Presidency Col, Calcutta, India, 57; M.A, Calcutta, 59; Ph.D.(regional sci), Pennsylvania, 63. Asst. prof. indust. mgt, Rhode Island, 63-64; regional sci. & geog, Pennsylvania, 64-68; ASSOC. PROF. BUS, STATE UNIV. N.Y. BINGHAMTON, 68- Economet. Soc; Regional Sci. Asn. Regional economic development; statistics, geography. Publ: A regional econometric model of world jute industry & An input-output study of Calcutta industrial region, 64, Papers, Regional Sci. Asn; Local impact of disarmament, Peace Res. Soc. Address: Dept. of Accounting & Business, State University of New York at Binghamton, Binghamton, N.Y. 13901.

CHAU, DR. LAURENCE LEUNG-CHUEN, b. Hong Kong, July 36. ECONOMICS. B.A, Chung Chi Col, Hong Kong, 59; McGill, 59-61; M.S, Wisconsin, 62, Ph.D.(econ), 68. ASST. PROF. ECON, Colorado State, 66-68; ECON. RES. CENTER, UNIV. HAWAII, 68- Econ. Asn; Economet. Soc. Econometrics; income analysis; economic development. Publ: Co-auth, Further analysis of the consumption function, Econometrica, 7/65. Address: Economic Research Center, University of Hawaii, Honolulu, Hawaii 96814.

CHAU, DR. PHAN THIEN, b. Hue, Vietnam, Mar. 16, 38; m. 67. INTERNATIONAL STUDIES. B.A, Marian Col, 61; fel. & M.A, Detroit, 63; Soc. Sci. Found. fel. & Ph.D.(int. studies), Denver, 65. Asst. prof. polit. sci, Wis. State, Eau Claire, 65-66; SECOND SECY, EMBASSY OF VIETNAM, 66- Summer asst. prof, Wayne State, 66. Polit. Sci. Asn; Asn. Asian Studies; Int. Studies Asn. Vietnamese nationalism and communism. Address: 4620 Knox Rd, Box 2, College Park, Md. 20740.

CHAU, PROF. YAU PIK, b. China, Aug. 22, 09; m. 48; c. 4. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Lingnam Univ, 29; M.A, Michigan, 38; Ph.D, Chicago, 42. Chief ed. pub. compilation, Canton Munic. Govt, China, 29-30; mayor, Ten-on Dist, Kwang-Tung Prov, 30-36; econ. analyst, UNRRA, D.C, 43-46, adv. Ministry Econ. Affairs & cmnr, Ministry Finance, Nationalist Govt, Nanking, 47-49; v.pres. & prof. econ, Hongkong Col, 49-56; asst. prof. econ. & bus. admin, Chattanooga, 57-63; assoc. prof, Berry Col, 63-64; prof. & head dept. ECON, Ill. Wesleyan, 64-67; PROF, LOYOLA COL. (MD), 67- Prof, Kwa Kiu Col. Eng. & Commerce, Hong Kong, 49-56; summers, economist, Tenn. Valley authority, 61, seminar fels, econ. growth, Duke, 64, econ. systs, Virginia, 65 & temporary develop. in econ, Chicago, 66. Econ. Asn. Solutions to problem of capital formation in underdeveloped countries, including Mexico and Puerto Rico. Publ: Practical development program for Free China—land reform, Tiger, 60; Land distribution in densely populated developing countries, Am. J. Econ. & Sociol, 68; co-auth, Land distributions of China, past, present, and future. Address: 5100 A Underwood Rd, Baltimore, Md. 21212.

CHAUDHRY, DR. M(AHINDER) D, b. Kanjrur, W.Pakistan, Mar. 9, 28; m. 55; c. 2. ECONOMICS. B.A, Punjab, India, 49; M.A, Delhi, 52; fel, Duke, 59-62, Ph.D.(econ), 64. Econ. investr, planning cmn, Govt. India, 55-56, res. economist, small industs. serv. inst, 56-57, town planning orgn, 57-59; lectr. ECON, State Univ. N.Y. Buffalo, 62-63, asst. prof, 63-64; ASSOC. PROF, Carleton (Can), 64-65; ROYAL MIL. COL.(ONT), 65- Nat. Sci. Found. summer fel, Univ. Pennsylvania, 67. Consult, Atlantic Develop. Bd, Ottawa, 65-66. Am. Econ. Asn; Economet. Soc; Can. Econ. Asn; Indian Econ. Asn. Economic planning; economics of small scale industries; national and regional income estimation in underdeveloped economies; economic development, especially underdeveloped areas; regional econometric models. Publ: Co-auth, State income of Delhi State, suppl. to Economic development and cultural change, 63; auth, Regional income accounting in an underdeveloped economy: a case study of India, Firma K.L. Mukhopadhyay, Calcutta, 66. Address: Dept. of Economics, Royal Military College, Kingston, Ont, Can.

CHAUFOURNIER, DR. ROGER A, b. France, Jan. 23, 24; m. 51; c. 2. ECONOMICS. Licence ès Lettres, Paris, 47, Dr. Law, 52; fel, Swedish Inst, 48; fel, Inst. Int. Ed, 49. Opers. officer, INT. BANK RECONSTRUCTION & DEVELOP, WORLD BANK, 52-64, DEP. DIR, 64- Econ. Asn. Consumption economics; money; finance. Address: 5004 Nahant St, Washington, D.C. 20016.

CHAUNCEY, DR. HENRY, b. Brooklyn, N.Y, Feb. 9, 05; m. 32, 54; c. 8. PSYCHOLOGY. A.B, Harvard, 28; hon. D.Sc, Tufts, 52; hon. D.Litt, Rider Col, 62. Teacher, William Penn Charter Sch, 27-29; asst. dean, Harvard Col, 29-43, asst. to dean faculty & chmn. cmt. scholars, Harvard, 43-45; assoc. secy, Col. Entrance Exam. Bd, 45, acting exec. secy, 45-46, dir, 46-48; PRES, ED. TESTING SERV, 48- Vis. lectr, Princeton, 50- Trustee, Monticello Col, 56-; New Col, 61-66; Barnard Col, Columbia & Mercer County Community Cols, N.J, 65-; trustee Ed. Develop. Center, 65-, mem. corp, 67- Asst. dir. army-navy col. qualifying tests, Col. Entrance Exam. Bd, 43-45; mem. adv. cmt. for. serv. exam, U.S. Dept. State, 45-52; teaching & testing methods adv. panel, Serv. Acad. Bd, 49-50; spec. panel sci. personnel, Sci. Manpower Cmn, 53-55; testimony before subcmt. res. & develop, Joint Cmt. Atomic Energy, 56; mem. working group army res. on officer selection, Army Sci. Adv. Panel, 56-57; Phys. Sci. Study Cmt, 56-60; ed. panel, President's Sci. Adv. Cmt, 57; mem, U.S. Off. Ed. Cultural Exchange Act team of Am. educators to visit Soviet Union, 58 & head of team, 65; testimony before subcmt. spec. ed, cmt. ed. & labor, U.S. House of Rep, 58; mem. adv. N.J. Cmt. Civil Rights, 58-59; adv, Ed. Policies Cmn, 59-; mem. Cmn. Human Resources & Adv. Training, 62-; del, Atlantic Study Conf. Ed, 64; secy, N.J. Citizens Cmt. Higher Ed, 65-; mem. cmt. innovation curriculum & instr, Bd. Ed, N.Y. 65-; cmt. int. rels, Am. Ed. Res. Asn, 65-; steering cmt, Gov. Conf. Ed, N.J, 66; cmn. plans & objectives, Am. Coun. Ed, 66- Mem. overseers cmts, Harvard, 55-64, bd. overseers, Harvard Col, 66-, mem. overseers cmt, 66- & chmn, 67-; mem. adv. cmt, planning cmn, bd. control, Florida Atlantic, 60-61; bd. visitors, sch. ed, Pittsburgh, 60-; eval. cmt, res. & develop. center cognitive learning, Univ. Wisconsin, 65-; hon. bd. fels, New Col, 67. AAAS; Acad. Polit. & Soc. Sci; Asn. Sch. Admin; Ed. Res. Asn; Personnel & Guid. Asn; Col. Personnel Asn; Asn. Measurement & Eval. Guid; Psychol. Asn; Psychomet. Soc; Psychonomic Soc. Educational testing. Publ: Co-auth, Testing: its place in education today, Harper, 63. Address: Educational Testing Service, Princeton, N.J. 08540.

CHAWNER, PROF. LOWELL J(ENKINS), b. El Modena, Calif, Oct. 14, 96; m. 30; c. 4. INTERNATIONAL ECONOMICS. A.B, Occidental Col, 21; C.E, Cornell, 31, McMullen fel, 30-34; univ. fel, Columbia, 34-35; A.M, Harvard, 51, Ph.D.(econ), 54; LL.D, Korea Univ, 57. Instr. hydraul, Cornell, 23-24; asst. prof. econ, Occidental Col, 24-30; chief construct. econ. sect, U.S. Bur. For. & Domestic Commerce, 35-37, div. econ. res, 38-41; spec. asst. to Secy. Commerce, 42; Cent. Intel. Agency, 46-54; mem. staff, coun. econ. adv, Exec. Off. President, 54-55; adv. econ. & dep. dir, U.S. Opers. Mission, Int. Coop. Admin, Korea, 55-60; prof. INT. BUS, WASHINGTON (SEATTLE), 60-67, EMER. PROF, 67- Vis. prof, Calif. State Col. Fresno, 67-68. Consult. economist, Power Surv, Taiwan & Energy Surv, India, 63; Guyana, 67. U.S.A, 18-19, 42-46, Col. Am. Econ. Asn; Royal Econ. Soc. Theory and analysis of national economic growth and development; economics of technological change. Address: P.O. Box 175, Orange Cove, Calif. 93646.

CHEATHAM, DR. MARGARET J(OSEPHINE), b. Amarillo, Tex, May 29, 20. CLINICAL PSYCHOLOGY. B.A, Texas, 41; M.A, Southern Methodist, 48; Ph.D.(clin. psychol), Western Reserve, 53. Private practice, Tenn, 51-54; chief psychologist, Upper Miami Valley Guid. Center, Ohio, 55-56; Bexar County Community Guid. Center, Tex, 56-57; STAFF PSYCHOLOGIST, Vet. Admin. Ment. Hyg. Clin, Pa, 57-61; Vet. Admin. Hosp, Tex, 61-62; PRAIRIE VIEW HOSP, 62- U.S.N, 43-46, Lt. Psychol. Asn; Acad. Psychother; Int. Coun. Psychol. Address: Prairie View Hospital, Box 467, Newton, Kans. 67114.

CHEATHAM, DR. PAUL G(ORDON), b. Ohio, May 14, 23. PSYCHOLOGY. B.A, Virginia, 43, M.A, 47, Du Pont fel, 48-49, Ph.D.(psychol), 49. Asst. prof. psychol, Davidson Col, 49-51; exp. & physiol. psychologist, U.S. Navy Electronics Lab, 51-55; asst. head, eng. psychol. br, U.S. Off. Naval Res, 55-61; assoc. prog. dir, psychobiol. prog, NAT. SCI. FOUND, D.C, 61-67, STAFF ASSOC, INSTNL. RELS, 67- U.S.A, 43-46. AAAS; Psychol. Asn. Visual perception. Publ: Visual perceptual latency as a function of stimulus brightness and contour shape & co-auth, Temporal numerosity, J. Exp. Psychol. Address: 4355 Ivymount Court, Annandale, Va. 22003.

CHEAVENS, PROF. SAM FRANK, b. Torreon, Mex, June 15, 05; U.S. citizen; m. 30; c. 1. PSYCHOLOGY. B.A, Baylor, 27; M.A, Texas, 46, Ph.D.(psychol, ed), 55. Psychologist, Austin State Sch, Tex, 46-51; counsr, pub. schs, 51-54; dir. community ed, Austin Child-Parent Relationship Proj, 54-57; PROF. PSYCHOL, TEXAS, ARLINGTON, 57- Lectr, various cols, 49-55. Consult, Hogg Found. Ment. Health, Texas, 50-60; Dallas Ment. Health Asn, 60-; Job Corps, U.S. Off. Econ. Opportunity, 65. Psychol. Asn. Effects of group processes on parent-child relations; specially designed application of bibliotherapy for children. Publ: Arrow lie still, Story Press, 50; Leading group discussions, 57 & Training discussion leaders, 59, Hogg Found. Ment. Health. Address: 2108 Miriam Lane, Arlington, Tex. 76010.

CHECK, PROF. JOHN F(ELIX), b. Rosholt, Wis, Aug. 22, 21; m. 52; c. 3. EDUCATIONAL PSYCHOLOGY. B.E, Wis. State Col, 52; M.S, Wisconsin, 56, Ph.D, 59. Teacher, pub. schs, 41-49, prin, 49-50, 52-54; teacher, Door-

Kewaunee County Nor. Sch, 54-56, Juneau County Nor. Sch, 56-57; PROF. ED. PSYCHOL, Flint Col, Michigan, 59-66; WIS. STATE, OSHKOSH, 66- Psychol. Asn. Retention in arithmetic learning with children of low, average and high intelligence; changes in attitudes of college students toward arithmetic obtained by methodology. Publ: Trends in discipline, 11/63 & How teachers can help parents to help their children, 3/64, Mich. Bull; Homework—is it needed?, Clearing House, 11/66. Address: 1547 Bismarck Ave, Oshkosh, Wis. 54901.

CHEE, DR. CHANGBOH, b. Korea, May 28, 25; U.S. citizen. SOCIOLOGY. B.A, Yonsei, Korea, 48; B.A, N.Cent. Col.(Ill), 55; M.A, Duke, 56, Ph.D. (sociol, econ), 59. Asst. prof. sociol. & Asian cultures, Wake Forest, 59-62; assoc. prof. sociol. & Asian cultures & assoc. dir. Asian studies center, 63-65; dir. core prog. West. & Non-West. studies, Drew, 65-66; ASSOC. PROF. SOCIOL. & ASIAN STUDIES, LONG ISLAND, 66- Spec. prof, Salem Col.(N.C), 63-65. Sociol. Asn; Asn. Asian Studies. Asian studies; educational and man-power resources training programs in Communist China and in North Korea; planned social changes and personality formation in Communist countries. Publ: Co-auth, Educational system in North Korea, China Quart, 64; auth, Modern literary movements in Korea, Asian Studies, 66; Man-power resources training in North Korea, Asia, 67. Address: Dept. of Sociology, Long Island University, Brooklyn Center, Brooklyn, N.Y. 11201.

CHEE, PROF. CHOUNG IL, b. South Korea, May 28, 33. INTERNATIONAL LAW & RELATIONS. B.S.F.S, Georgetown, 56; M.A, N.Y. Univ, 61, Ph.D. (int. rels), 64. Asst. prof. POLIT. SCI, St. Andrews Presby. Col, 63-64; assoc. prof, RADFORD COL, 64-67, PROF, 67-, CHMN. DEPT, 65- Polit. Sci. Asn; Am. Soc. Int. Law. Comparative government; Far Eastern Area study. Address: Dept. of Political Science, Radford College, Radford, Va. 24141.

CHEEK, DR. FRANCES EDITH, b. Toronto, Ont, Dec. 4, 23; nat; div; c. 1. SOCIAL PSYCHOLOGY. B.A, Toronto, 46; M.A, Duke, 51; Ph.D, Columbia, 62. Asst. biomet. res, N.Y. State Psychiat. Inst, 54-58; CHIEF EXP. SOCIOL, N.J. BUR. RES. NEUROL. & PSYCHIAT, 58- Sociol. Asn. Mental health. Publ: Co-auth, Some effects of LSD-25 on verbal communication, J. Abnorm. Psychol, 65; auth, Parental social control mechanisms in the family of the schizophrenic-a new look at the family environment of schizophrenia, J. Schizophrenia, 6/67; co-auth, The illicit LSD group, some preliminary observations, In: Psychedelics: their uses and implications, Doubleday, in press. Address: Bureau of Research in Neurology, Box 1000, Princeton, N.J. 08540.

CHEEVER, PROF. DANIEL S(ARGENT), b. Boston, Mass, Dec. 19, 16; m. 40; c. 3. POLITICAL SCIENCE. A.B, Harvard, 39, A.M, 47, Ph.D, 48; Am. Univ, 45-46. Asst. int. security affairs, U.S. Dept. State, 45-46; instr. govt, Harvard, 48-49, asst. prof, 49-52, lectr, 52-61, spec. res. asst, 60-61; assoc. prof. polit. sci, univ. & assoc. prof. int. affairs, GRAD. SCH. PUB. & INT. AFFAIRS, PITTSBURGH, 61-64, PROF. INT. AFFAIRS & POLIT. SCI, 64- Mem. faculty, Nat. War Col, 50; vis. prof, Fletcher Sch. Law & Diplomacy, 60-61; Carnegie Endowment Int. Peace vis. res. scholar, 67-68. Dir. Unitarian Serv. Cmt. U.S.N.R, 42-45. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Am. Soc. Int. Law; Soc. Int. Develop. International relations; international law and organization and the conduct of foreign policy. Publ: Co-auth, American foreign policy and the separation of powers; Organizing for peace; The common aid efforts-the development assistance activities of the Organization for Economic Cooperation and Development, Ohio State Univ, 67. Address: Bruce Hall, University of Pittsburgh, Pittsburgh, Pa. 15213.

CHEEVES, LARRY W(ADE), b. Bristow, Okla, July 7, 31; m. 57; c. 1. OPERATIONS RESEARCH, STATISTICS. B.B.A, Oklahoma, 54, M.B.A, 58. Statistician, Owens-Corning Fiberglas Corp, 54-58; opers. res. analyst, Convair Div, Gen. Dynamics Corp, 58-60; res. & econ. analyst, Sunray DX Oil Co, 60-62, mgr. mkt. develop, 62-66; PRES, NAT. UTILITY TRAILER RENTAL SYST, MODERN MOVE, INC, 66- U.S.A.F, 55-57. Statist. Asn; Inst. Mgt. Sci; Mkt. Asn. Petroleum industry economics, especially transportation of products; optimization studies; analysis of profitability factors of service station location. Publ: Correlation model of the fuel oil industry; Forecast of passenger miles traveled in 1975. Address: 2 Denmead Blvd, Marshalltown, Iowa 50158.

CHEFFINS, PROF. RONALD IAN, b. Montreal, Que, Jan. 13, 30; m. 56; c. 2. POLITICAL SCIENCE, LAW. LL.B, British Columbia, 53, B.A, 55; LL.M, Yale, 57. Asst. prof. law, McGill, 57-60, assoc. prof, 60-65; POLIT. SCI, VICTORIA (B.C), 65-68, PROF, 68- Constitutional and administrative law; legal philosophy; criminology. Publ: The treaty power in Canada and Australia, part I, fall 58, part II, spring 60, Alta. Law Rev; Canadian-U.S. legal education compared, Can. Bar J, 65; The Supreme Court of Canada: the quiet court in an unquiet country, Osgoode Hall Law J, 66. Address: Dept. of Political Science & Public Law, University of Victoria, Victoria, B.C, Can.

CHEIN, PROF. ISIDOR, b. New York, N.Y, Mar. 5, 12; m. 37; c. 4. PSYCHOLOGY. B.S, City Col. New York, 32; M.A, Columbia, 33, Ph.D.(psychol), 39. Instr. psychol, City Col. New York, 37; dept. supvr. eve. session, 40-46; res. assoc, Mayor's Cmt. Unity, New York, 45-46; from res. assoc. to dir. res, cmn. community interrels, Am. Jewish Cong, 46-52; PROF. PSYCHOL, N.Y. UNIV, 52- U.S.A.A.F, 43-44. Fel. Psychol. Asn; fel. Sociol. Asn. Theory of personality; intergroup relations; juvenile delinquency; drug addiction; philosophical psychology. Publ: Co-auth, Road to h: narcotics, delinquency and social policy, Basic Books, 64; auth, Awareness of self and the structure of the ego, Psychol. Rev; Environment as a determinant of behavior, J. Soc. Psychol. Address: Dept. of Psychology, New York University, 4 Washington Place, New York, N.Y. 10003.

CHEIT, PROF. EARL F, b. Minneapolis, Minn, Aug. 5, 26; m. 50; c. 4. ECONOMICS. B.S.L, Minnesota, 47, LL.B, 49, fel, 50-55, Ph.D.(econ), 55. Asst. prof. econ, St. Louis, 55-57; assoc. prof. bus. admin. & assoc. res. economist, inst. indust. rels, CALIFORNIA, BERKELEY, 57-60, PROF. BUS. ADMIN. & RES. ECONOMIST, 60-, EXEC. V.CHANCELLOR, OFF. CHANCELLOR, 65-, assoc. dir. inst. indust. rels, 64-65. Mem. adv. panel integration pension plans soc. security, U.S. Treas. Dept, 66- Econ. Asn; Indust. Rels. Res. Asn. Social insurance; labor legislation; collective bargaining. Publ: Injury and recovery in the course of employment; co-auth, Economic and social security; ed. & contrib, Occupational disability and public policy, Wiley, 63. Address: 50 Lenox Rd, Kensington, Calif. 94707.

CHELF, PROF. CARL P(HILIP), b. Pike View, Ky, Sept. 16, 37; m. 62; c. 2. POLITICAL SCIENCE. B.A, Western Kentucky, 59; Nat. Defense Ed. Act fel, Nebraska, 59-62, M.A, 61, Am. Polit. Sci. Asn. fel, 62-63. Instr. GOVT, WESTERN KENTUCKY, 63-64, ASST. PROF, 64- Polit. Sci. Asn. Political parties and elections; Congress and the legislative process. Publ: Co-auth, 100 questions about a constitutional convention, Constitutional Rev. Cmt, 60 & Planning and zoning in Kentucky, Ky. Legis. Res. Cmn, 62. Address: 1810 Nashville Rd, Bowling Green, Ky. 42101.

CHEN, DR. ANITA B(ELTRAN), Misamis Oriental, Philippines, Oct. 10, 30; m. 65. A.B, Philippines, 54, M.A, 57; Ph.D.(sociol), Chicago, 62. Asst. SOCIOL, Philippines, 54-55, asst. instr, 55-57, instr, 57-63; lectr, LAKEHEAD, 64-65, asst. prof, 65-67, ASSOC. PROF, 67-, CHMN. DEPT, 66- Consult. res. proj, soc. welfare bur, City Mayor's Off, Manila, 64; consult. sociologist, Downtown Urban Renewal Scheme, Port Arthur, Ont, 65-66. Am. Sociol. Asn; Asn. Asian Studies, Can. Sociol. & Anthrop. Asn; Philippine Sociol. Soc.(treas, 56-57). Race and ethnic relations; occupational mobility. Address: Dept. of Sociology, Lakehead University, Oliver Rd, Port Arthur, Ont, Can.

CHEN, DR. ARTHUR SHU YUAN, b. Foochow, China, Aug. 4, 05; nat; m. 32; c. 3. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, St. John's Univ, China, 27; M.A, Chicago, 30; Ph.D, Southern California, 38. Lectr. & head dept. sociol, Fukien Christian Univ, China, 30-32; asst. prof. & head dept, Cent. China Univ, 32-36; prof. & head dept, Hwa Nan Col, 38-39; Univ. Shanghai, 39-43; prof, Great China Univ, 43-47; Southwest. Col, 47-51; asst. prog. officer, Human Resources Res. Inst, AIR UNIV, 51-54, res. analyst, hq, command & staff col, 54-58, PROJ. OFFICER, RES. STUDIES INST, 58- Fel. Sociol. Asn. Cultural anthropology; area study of Southeast and South Asia. Address: Air University, Aerospace Studies Institute, Maxwell Air Force Base, Montgomery, Ala. 36112.

CHEN, DR. C(HI) T, Econ, see 10th ed, Soc. & Behav. Vols.

CHEN, DR. CHUNG W(EI), b. Hunan, China, Dec. 25, 21; U.S. Citizen; m. 65; c. 2. STATISTICS. B.A, Nat. Chengchi Univ, 46, LL.B, 48; Berne, Switz; Tuebingen, Germany; M.B.A, La. State, 54, Ph.D, 57. Secy, Hunan Prov. Govt, 46-47; judge, Hunan Changsha Dist. Court, 47-48; statistician, Haloid-Xerox Inc, 56-61; CHIEF STATISTICIAN, XEROX CORP, 61- Instr, Rochester Inst. Tech, 59-67. Statist. Asn; Econ. Asn; Opers. Res. Soc; Biomet. Soc. Chinese literature and classics; foreign languages; military science; laws; economic theory; international economics; finance; management; applied mathematics and statistics. Publ: Comparative study in negotiable instruments; Economic resources and foreign trade of modern Burma; Problems in the application of statistical quality control to a manufacturing plant. Address: 310 Orchard Park Blvd, Rochester, N.Y. 14609.

CHEN, DR. DEAN TIN, b. Chengkiang, China, Feb. 20, 35; m. 63; c. 2. AGRICULTURAL ECONOMICS. B.S, Taiwan, 56; M.S, Minnesota, St. Paul, 60, Ph.D.(agr. econ), 66. Specialist agr. finance, Taiwan Land Bank, Taipei, 57-58; ECONOMIST CORP. PLANNING, DEERE & CO, 65- Agr. Econ. Asn; Econ. Asn; Statist. Asn. Econometrics. Publ: An economic analysis of inter-community expenditure differentials in the provision of public services to rural communities in southwestern Minnesota, Univ. Minnesota, 12/66. Address: Corporate Planning Services, Deere & Co, John Deere Rd, Moline, Ill. 61265.

CHEN, EDITH T, b. Changchow, Fukien, China, Dec. 16, 00; nat. EDUCATIONAL & EXPERIMENTAL PSYCHOLOGY. B.S, Syracuse, 22; M.A, Columbia, 23; M.A, North Carolina, 50. Instr. psychol, Amoy Univ, China, 23-36; assoc. prof, Fukien Christian Univ, 38-40; prof, 40-47; res. assoc, grad. sch. pub. health, Pittsburgh, 55-61; Tufts, 61-64; grad. sch. pub. health, Pittsburgh, 65-67. AAAS; Psychol. Asn; Pub. Health Asn; Acad. Polit. & Soc. Sci. Association of attitude with behavior; effects of psychosocial factors on certain psychosomatic diseases. Publ: Co-auth, Studies in stress glycosuria, Diabetes, 64 & 67; Family structure in relation to health and disease, 60 & Some psychological and social characteristics of patients hospitalized for rheumatoid arthritis, hypertension and duodenal ulcer, 65, J. Chronic Disease. Address: 431½ N. Market, Wooster, Ohio 44691.

CHEN, DR. GORDON K. C, b. Shanghai, China, Oct. 30, 20; m. 56; c. 1. MANAGEMENT, ECONOMICS. Ph.D, Iowa, 56. Circulation mgr, Daily Iowan, 49-55; asst. prof. econ. & bus, Ithaca Col, 55-59; bus. admin, Rutgers, 59-64; ASSOC. PROF. MGT, MASSACHUSETTS, 64- Econ-in-action fel, 56; Col-Bus-Exchange fel, 57; lectr, Cornell, 58-59; summer fels, Ford Found, 60-64 & Nat. Sci. Found, 63. Econ. Asn; Inst. Mgt. Sci; Oper. Res. Soc. Operations research; management sciences; systems analysis. Publ: Operations systems analysis, Allyn & Bacon, 68; co-auth, A hybrid exponential model, Mgt. Sci, 66. Address: Dept. of Management, University of Massachusetts, Amherst, Mass. 01002.

CHEN, DR. KING C, b. China, Oct. 24, 26; m. 63; c. 2. POLITICAL SCIENCE. B.A, Nat. Chengchi Univ, 48; fel. & M.A, Virginia, 57; Columbia, 59-61; fel. & Ph.D.(polit. sci), Pa. State, 62. Instr. Far East, Adelphi Col, 61-62; Brooklyn Col, 62-63; asst. prof. POLIT. SCI, State Univ. N.Y. Col. Oswego, 63-64, assoc. prof, 64-65; ASST. PROF, BROWN, 65- Summers, interpreter, U.S. Dept. State & Int. Coop. Admin, 60, N.Y. State res. grant, 65. Comparative government and international relations, particularly Chinese government and international relations. Publ: North Vietnam in the Sino-Soviet dispute, 1962-64, Asian Surv, 9/64; Peking's strategy in Indochina, Yale Rev, 6/65; China and North Vietnam, 69. Address: Dept. of Political Science, Brown University, Providence, R.I. 02912.

CHEN, PROF. KUAN I, b. Shanghai, China, June 17, 26; nat; m. 60; c. 1. AGRICULTURAL ECONOMICS, ECONOMICS. B.S, St. John's (China), 48; M.S, Mich. State, 50; Ph.D, Pa. State, 54. Asst. agr. econ, Pa. State, 50-53, instr, 53-54; asst. instr, Kans. State Col, 54; assoc. prof. ECON, Talladega Col, 54-55, prof, 55-56; asst. prof, Fairleigh Dickinson, 56-61; assoc. prof, STATE UNIV. N.Y. ALBANY, 61-65, PROF, 65- Econ. Asn; Agr. Econ. Asn; Pop. Asn. Hedging in grain future; statistical measure of agricultural production in Pennsylvania; international trade; population and economic development. Publ: World population growth and living standards; Trends in farm production & Facts on a century of agriculture, state-regional-county, Agr. Exp. Sta. Bull. Address: 32 Campus Club Dr, Guilderland, N.Y. 12084.

CHEN, DR. NAI-RUENN, b. Foochow, China, Mar. 1, 27; m. 61. ECONOMICS, APPLIED STATISTICS. B.A, Nat. Taiwan Univ, 50; M.S, Illinois, 55, Ph.D.(econ), 60. Asst. econ, Nat. Taiwan Univ, 50-54; asst, bur. econ. & bus. res, Illinois, 55-60; economist, labs. appl. sci, Chicago, 60-62; res. economist, Cmt. Econ. in China, Soc. Sci. Res. Coun, 62-66; ASST. PROF. ECON, CORNELL, 66- Lectr, California, Berkeley, 62-66. Econ. Asn. Economic theory; economic development; economy of China. Publ: The economy of Mainland China, 1949-1963: a bibliography of materials in English, Cmt. Econ. China, Soc. Sci. Res. Coun, 63; Chinese economic statistics, Aldine, 67; The theory of price formation in Communist China, China Quart, 6-8/66. Address: Dept. of Economics, Cornell University, Ithaca, N.Y. 14850.

CHEN, PROF. SAMUEL C, b. July 12, 13; m. 38; c. 5. ECONOMICS. B.A, Hangchow Christian Univ, China, 36; M.S, Illinois, 51, Ph.D, 55. Registr. & lectr. econ, Hangchow Christian Univ, China, 36-40, assoc. prof. econ. & dean of studies, 46-50; pres, Che-Tung Regional Bank, 41-46; assoc. prof. ECON, Ark. Polytech. Col, 55-57; assoc. prof, BEMIDJI STATE COL, 57-60, PROF, 61- Econ. Asn; Acad. Polit. Sci. Banking; finance; economic theory. Publ: Chinese banking system. Address: Dept. of Economics, Bemidji State College, Bemidji, Minn. 56601.

CHEN, PROF. SAMUEL SHIH-TSAI, b. Wan-an, Kiangsi, China, July 18, 15; wid; c. 3. POLITICAL SCIENCE. A.B, Nat. Cent. Univ, China, 35; M.A, Harvard, 39, Ph.D.(polit. sci), 41. Prof. polit. sci, Nat. Chengchi Univ, 41-49; writer & lectr. Oriental studies, cols. & univs. on east coast U.S, 50-65; VIS. PROF. POLIT. SCI, CENT. CONN. STATE COL, 65- Coun-dir, Chinese For. Ministry, China, 45-49; pres, China Artware Co, Inc, N.Y, 50-65. Consult, Cent. Bank China, 43-46; adv, Chinese Mission, UN, 48-49 & 66-67. Polit. Sci. Asn; Am. Soc. Int. Law; Soc. Polit. & Legal Philos; Asn. Asian Studies. International relations and law; Chinese political philosophy and institutions. Publ: A study of the control system of Han, Commercial Press, China, 44; The science of international law, Chinhua Press, Taipei, 54; The equality of states in ancient China, Am. J. Int. Law, 41. Address: Dept. of Political Science; Central Connecticut State College, New Britain, Conn. 06050.

CHEN, PROF. THEODORE HSI-EN, b. Foochow, China, July 14, 02; nat; m. 32; c. 1. INTERNATIONAL RELATIONS. B.A, Fukien Christian Univ, 22; A.M, Columbia, 29; Ph.D, Southern California, 39, LL.D, 67. Instr. Eng, Anglo-Chinese Col, 22-24; prof. ed. & dean, Fukien Christian Univ, 29-37; vis. lectr. ED. & ASIATIC STUDIES, SOUTHERN CALIFORNIA, 38-42, PROF, 42-, HEAD DEPT. ASIATIC STUDIES, 40- Pres, Fukien Christian Univ, 46-47. Asian studies; comparative education; contemporary China. Publ: Thought reform of the Chinese intellectuals; Teacher training in communist China; The Chinese communist regime: documents and commentary, Praeger, 67. Address: Dept. of Asiatic Studies, University of Southern California, Los Angeles, Calif. 90007.

CHEN, DR. VINCENT, b. Ningpo, China, June 23, 17; nat; m. 61. INTERNATIONAL RELATIONS. LL.B, Nat. Chung Cheng Univ, China, 44; M.A, Chicago. 51; Ph.D, Yale, 57. From asst. to assoc. prof. polit. sci, Albertus Magnus Col, 57-64; from assoc. prof. to PROF. INT. RELS. & LAW, GRAD. SCH, ST. JOHN'S (N.Y), 64- Polit. Sci. Asn. Publ: Sino-Russian relations in the seventeenth century, M. Nijhoff, 66; Mao Tse-tung's communist ideology. Address: 88-30 195th St, Hollis, N.Y. 11423.

CHEN, PROF. WEN CHAO, b. Shansi, China, Oct. 14, 19; m. 50; c. 2. POLITICAL SCIENCE. B.A, Grinnell Col, 47; M.A, St. Louis, 49, Ph.D.(polit. sci), 51; M.L.S, Chicago, 57. Instr. POLIT. SCI, KALAMAZOO COL, 51-53, asst. prof. & librn, 53-57, assoc. prof, 57-59, PROF, 59-, DEAN SPEC. SERV, 67- Polit. Sci. Asn; Soc. Pub. Admin; Library Asn. Public administration; international relations; politics and parties. Address: Dept. of Political Science, Kalamazoo College, Kalamazoo, Mich. 49001.

CHEN, PROF. WILLIAM K(EH) C(HING), b. Hofei, China, Oct. 14, 99; m. 25; c. 1. PSYCHOLOGY. B.A, Nanking, 23; M.S, Kentucky, 29; Ph.D, Columbia, 33. Prof. psychol, Nat. Peiping Nor. Univ, China, 33-37; Nat. Sian Provisional Univ, 37-38; Nat. Northwest Union Univ, 38-40; Nat. Northwest. Teachers Col, 40-46; Nat. Cent. Univ, 46-47; vis. prof, City Col. New York, 47-49; dir. student dept, China Inst. in Am, New York, 49-55; assoc. prof. PSYCHOL, Col. South Jersey, Rutgers, 55-65; PROF, BLOOMFIELD COL, 65- Psychol. Asn. Measurement and changes of attitudes; Chinese national character; juvenile delinquency. Publ: Influence of oral propaganda material upon students' attitudes, Arch. Psychol; Retention of the effect of oral propaganda, J. Soc. Psychol. Address: Dept. of Psychology, Bloomfield College, Bloomfield, N.J. 07003.

CHENAULT, PROF. LAWRENCE R(OYCE), b. Hico, Tex, July 3, 97. ECONOMICS. B.B.A, Texas, 20; N.Y. Univ, 30; A.M, Wayne, 33; Ph.D, Columbia, 38. Auditor, bur. int. rev, U.S. Dept. Treas, 22-26; sr. acct, J.A. Phillips Co. & Own Firm, 26-28; investment acct, Socony-Vacuum Co, 29-32; asst. prof, Puerto Rico, 35-36; from assoc. prof. to prof. ECON, HUNTER COL, 36-67, EMER. PROF, 67- Vis. prof, Col. William & Mary, 45; grad. sch. bus. admin, N.Y. Univ, 55-60. Econ. Asn. Modern economic analysis; business practice; the Puerto Rican migrant in New York City. Publ: Co-auth, Economics, Doubleday, 65; contrib, Population theory, In: The frontiers of social science, Macmillan, 56. Address: 2200 Fuller Rd, Apt. 308-B, Ann Arbor, Mich. 48105.

CHENERY, PROF. HOLLIS B(URNLEY), b. Richmond, Va, Jan. 6, 18; m. 42; div; c. 2. ECONOMICS. B.S, Arizona, 39; B.S, Oklahoma, 42; M.A, Virginia, 47; Ph.D.(econ), Harvard, 50. Asst, Mass. Inst. Tech, 47-49; economist, Econ. Coop. Admin, France, 49-50; chief, prog. div, Mutual Security Agency, Italy, 50-52; asst. prof. econ, Stanford, 52-55, assoc. prof, 55-57, prof, 57-61; asst. adminstr, Agency Int. Develop, 61-65; PROF. ECON, HARVARD, 65- Guggenheim fel, 61. Consult, For. Opers. Admin, Ankara, 53; Asn. Indust. South. Italy, 54-55; planning bd, Govt. Pakistan, 55; UN, 57-61; Agency Int. Develop, 65- U.S.A.A.F, 42-46, Capt. Econ. Asn; Economet. Soc; Royal Econ. Soc. Economic development; industrial and international economics. Publ: Co-auth, Interindustry economics, Wiley, 59; auth, Comparative advantage and development policy, 3/61 & co-auth, Foreign assistance and economic development, 9/66, Am. Econ. Rev. Address: 1010 Memorial Dr, Cambridge, Mass. 02138.

CHENEY, DR. CARL D(OUGAL), b. Buhl, Idaho, Feb. 19, 34; m. 54; c. 2. PSYCHOLOGY. B.S, Utah State, 56; M.A, Arizona State, 62, Ph.D.(psychol), 66. Ed. & programmer, Learning Inc, 61-62; res. assoc. physiol & psychol, Barrow Neurol. Inst, 62-64; ASST. PROF. PSYCHOL, East. Wash. State Col, 65-68; UTAH STATE, 68- Nat. Sci. Found. res. grant, 67-68. U.S.A.F, 56-59; Air Nat. Guard, 62-65, Capt. AAAS; Psychol. Asn. Neurological bases of perception and learning; experimental analysis of behavior. Publ: Co-auth, Retinal effects of high doses of LSD in the cat, Exp. Neurol, 11/65; Effect of LSD on the tonic activity of the visual pathways of the cat, Life Sci, 65; Neural mechanisms involved in the critical flicker frequency of the cat, Brain Res, 66. Address: Dept. of Psychology, Utah State University, Logan, Utah 84321.

CHENEY, ROBERT JOSEPH, S.J, b. Dorchester, Mass, Feb. 15, 27. ECONOMICS. A.B, St. Louis, 50, M.A, 53; S.T.L, Weston Col, 58; Ph.D.(econ), Georgetown, 64. Lectr. ECON, BOSTON COL, 53-54, instr, 63-66, ASST. PROF, 66- Econ. Asn. History of economic thought; history of capitalism. Address: Dept. of Economics, Boston College, Chestnut Hill, Mass. 02167.

CHENEY, DR. TRUMAN McGIFFIN, b. Stanford, Mont, Jan. 2, 09; m. 34; c. 3. GUIDANCE, COUNSELING PSYCHOLOGY. B.A, Intermountain Union Col. 31; M.A, Montana State, 36; summer, Columbia, 37-38; fel, Ore. State Col, 49-50, Ed.D, 51. Teacher & coach, Klein High Sch, 31-35; supt, Melstone Sch, 35-39; Townsend Pub. Sch, 39-43; Forsyth Schs, Mont, 43-44; prin, Buhl High Sch, Idaho, 44-46; supvr. guid. & counseling, State of Mont, 46-52; asst. prof. guid. & counseling & dir. counseling & testing, Portland State Col, 52-59; assoc. prof. guid. & counseling, Nevada, 59-63; fel, VET. ADMIN. HOSP, 63-64, COUNSELING PSYCHOLOGIST, 64- Summers, lectr, Montana State, 47-48, 51, Mont. State Col, 52, Pacific Univ, 55, West Virginia, 56, Alberta, 58, Florida, 63, mem, grad. faculty, Ore. State Col, 52-59, consult, 49-50, 61. Mem, family life conf, Nevada, 61. Nat. Guard. 27-31. Psychol. Asn; Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv. Job development and placement; group and individual therapy; evaluation of actual programs. Publ: Streamlining counseling information, Personnel & Guid. J; Method of identifying problems of students, In: Mental hygiene: a text of readings; co-auth, A cooperative rehabilitation program for the training and employment of veterans, Employ. Serv. Rev, 6/86. Address: Veterans Administration Hospital, Ft. Meade, S.Dak. 57741.

CHENG, DR. CHU-YUAN, b. Kwangtung, China, Apr. 8, 27; U.S. citizen; m. 64; c. 2. ECONOMICS. B.A, Nat. Chengchih Univ, China, 47; M.A, Georgetown, 62, Ph.D.(econ), 64. Res. dir, Union Res. Inst, Hong Kong, 56-59; res. prof, Seton Hall, 59-64; res. economist, MICHIGAN, 64-67, SR. RES. ECONOMIST, 67-, lectr. econ, 64-67. Chief investr, Nat. Sci. Found. grant, 60-64; vis. res. prof, George Washington, 63. Consult, Nat. Sci. Found, 64-Econ. Asn; Asn. Asian Studies. Economic development; scientific and engineering manpower; machine-building industry; capital formation of Communist China during the past ten years. Publ: Communist China's economy, 1949-1962, Seton Hall Univ, 63; Economic relations between Peking and Moscow, 1949-1963, Praeger, 64; Scientific and engineering manpower in Communist China, 1949-1963, Nat. Sci. Found, 66. Address: Center for Chinese Studies, Lane Hall, University of Michigan, Ann Arbor, Mich. 48104.

CHENG, DR. J. CHESTER, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CHENG, DR. KENNETH, b. Formosa, May 20, 21; m. 47; c. 3. ECONOMICS, STATISTICS. B.A, Doshisha Univ, Japan, 46; M.S, Tennessee, 56; Ph.D, Mich. State, 59. Tech. dir. mkt. res, Blankenship, Grueneau Res, Ltd, 60; economist mkt. & econ. opers res, Philips Electronics, Ltd, 61-63; sr. economist, Dept. Econ. & Develop, ONT. GOVT, 63-64, dir. statist. br, 64-65, DIR. ONT. STATIST. CENTRE, 66- Statist. Asn; Economet. Soc; Opers. Res. Soc; Inst. Mgt. Sci; Asn. Comput. Mach. Sampling technique; econometrics; information system; data bank. Address: Ontario Statistical Centre, Queens' Park, Toronto, Ont, Can.

CHENG, PROF. PAO LUN, b. Shanghai, China, May 29, 22; m. 57. ECONOMICS, FINANCE. B.S, Chiao Tung Univ, 44; M.A, Missouri, 49; fel, Wisconsin, 51, Ph.D.(econ. theory), 56. Instr. econ, Missouri, 49-51; Maine, 54-56, asst. prof, 56-57; lectr, Mich. State, 57-58; assoc prof, FINANCE, MASSACHUSETTS, 58-63, PROF, 63- Ford faculty res. fel, 64-65. Am. Econ. Asn; Statist. Asn; Finance Asn; Economet. Soc; Royal Econ. Soc. Business cycles; financial theory; operation. Publ: Co-auth, Rates of change and cyclical magnitudes, Proc. Am. Statist. Asn; auth, Consumption of nondurable goods and business instability, Rev. Econ. and Statist, 63; A contribution to the theory of capital budgeting, J. Finance, 64. Address: School of Business Administration, University of Massachusetts, Amherst, Mass. 01002.

CHENG, PROF. WEN-YU, b. Chengtu, China, June 28, 20; nat; m. 47; c. 4. ECONOMICS. B.A, Nat. Wu-Han Univ, China, 43; A.M, Chicago, 51, Ph.D, 54. Instr. ECON, MARIETTA COL, 48-52, asst. prof, 52-55, assoc. prof, 55-60, PROF, 60-, HEAD DEPT. ECON. & BUS. ADMIN, 67- Found. Econ. Ed. summer fel, 65. Chinese Nat. Army, 43-44. Econ. Asn; Asn. Comp. Econ. International economics; business cycles; money and banking; policies and problems of the Chinese economy. Publ: Chap, In: Principles of economics. Address: Dept. of Economics, Marietta College, Marietta, Ohio 45750.

CHENOWETH, DR. EDGAR A, Psychol, see 10th ed, Soc. & Behav. Vols.

CHENVEN, DR. HAROLD, b. New York, N.Y, Mar. 20, 20; m. 42; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 41; M.A, N.Y. Univ, 49, Ph.D.(psychol), 53. Psychologist, Vet. Admin, 46-50; CHIEF PSYCHOLOGIST, INST. FOR CRIPPLED & DISABLED, 50-; ADJ. ASSOC. PROF. PSYCHOL, GRAD. SCH. ARTS & SCIS, N.Y. UNIV, 60- Lectr, Brooklyn Col, 49- Consult, Brooklyn Bur. Soc. Serv, 54- U.S.A, 42-46, 2nd Lt. Psychol. Asn; Rehab. Asn. Group therapy; psychology and personality of handicapped; rehabilitation of emotionally ill. Publ: Effects of group therapy on language recovery of expressive aphasics. Address: 7 Park Ave, New York, N.Y. 10016.

CHERINGTON, PROF. CHARLES R(ICHARDS), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 67.

CHERINGTON, PROF. PAUL W(HITON), b. Cambridge, Mass, June 16, 18; m. 45; c. 3. BUSINESS ADMINISTRATION. B.S, Harvard, 40, D.B.A, 56; Columbia. Econ. analyst, mil. affairs cmt, U.S. Senate, 46-47; liaison rep, Civil Aeronaut. Bd, 47-48, exec. asst. to chmn, 48-50; asst. prof. BUS. ADMIN, HARVARD BUS. SCH, 50-53, assoc. prof, 53-58, PROF, 58- Sr. exec. consult, Harbridge House Inc, 66- U.S.A, 42-45. Econ. Asn; Statist. Asn. Transportation; logistics. Publ: Airline price policy; co-auth, Business representative in Washington & Transportation and logistics education, Harvard Bus. Sch, 67. Address: 9 Coolidge Hill Rd, Cambridge, Mass. 02138.

CHERKASKY, DR. MARTIN, b. Philadelphia, Pa, Oct. 6, 11; m. 41; c. 3. HOSPITAL ADMINISTRATION, SOCIAL MEDICINE. M.D, Temple, 36. Intern, Mt. Sinai Hosp, Phila, 36-37; asst. resident med, MONTEFIORE HOSP, NEW YORK, 37-38, fel, 45, res. physician, 46, exec. home care prog, 47, dir. med. group, 48-51, chief div. soc. med, 50, DIR, 51-; PROF. PREV. MED. & COMMUNITY HEALTH & ACTING CHMN. DEPT. & PROF. SOC. MED. ALBERT EINSTEIN COL. MED, 64- Lectr, Columbia & Yale, 64- Consult, N.Y. State Hosp. Rev. & Planning Coun. of South. N.Y, Inc, mem, cmt. long term care, 64 & spec. cmt. organized ambulatory serv. south. N.Y, 64; consult, cmnr. hosps, Dept. Hosp. New York City; tech. adv. cmn. chronic illness, U.S. Pub. Health Serv; Gov. Cmt. Hosp. Costs N.Y. State. Mem. Med. Adv. Bd. Hebrew Univ. & Haddassah; hosp. admin. adv. cmt, Yale, 56; Gov. Cmn. Employment Physically Handicapped, 57; cmn. health serv, City New York, 59; med. supvry. cmt. to subcmt. Study Welfare Oper. N.Y. State, 60; chmn, amputee serv. adv. cmt, Interdept. Health Coun, City New York, 60; mem. adv. cmt. develop. & expansion psychiat. serv. gen. hosps, N.Y. State Dept. Ment. Hyg, 62; adv. cmt. revision proprietary hosp. code, City New York, 62; adv. cmt. nursing facilities, N.Y. State Dept. Soc. Welfare, 63; adv. coun. voc. & tech. ed, State Univ. N.Y, State Ed. Dept, 64; Nat. Cmt. Community Health Serv, 65; tech. adv. panel, N.Y. State Senate Cmt. Pub. Health, 65; adv. cmt. training, res. & spec. studies div. & joint cmt. training & ed, United Hosp.Fund N.Y, 65; working group med. care, Health Res. Coun. City New York, 63-65, chmn, working group med. care & ex-officio mem. rev. cmt, 65; dir, Assoc. Hosp. Serv. Dipl, Am. Bd. Prev. Med. & Pub. Health, 65. Med.C, 40-46, Lt. Col. Hosp. Asn; Asn. Am. Med. Cols; Asn. Teachers Prev. Med; fel. Pub. Health Asn; fel. N.Y. Acad. Med. Preventive medicine and community health; home care chronic illness. Publ: Co-auth, Affiliation helps New York City hospitals, The Modern Hosp, 6/64; auth, New dimensions for the hospital in meeting community needs: the relationship of public and voluntary hospitals, Bull. N.Y. Acad. Med. 1/65 & Hosp. Topics, 7/65; Resources needed to meet effectively expected demands for services, Bull. N.Y. Acad. Med, 12/66. Address: Dept. of Preventive Medicine & Community Health, Albert Einstein College of Medicine, New York, N.Y. 10461.

CHERNEY, DONALD D(WIGHT), Econ, see 10th ed, Soc. & Behav. Vols.

CHERNIACK, NATHAN, b. Odessa, Russia, Dec. 12, 97; nat; m. 31; c. 1. ECONOMICS. B.Sc, Mass. Inst. Tech, 22; M.B.A, N.Y. Univ, 34. Transportation economist, Port of N.Y. Authority, 23-68. Spec. lectr, bur. hwy. traffic, Yale, 35-60. Distinguished Serv. award, Port of N.Y. Authority, 54, Howard S. Cullman medal, 60. Statist. Asn; Soc. Terminal Eng.(pres, 40); Inst. Traffic Eng.(pres, 51). Transportation demand for toll bridges, tunnels and expressways; bus and truck terminals; engineering. Publ: Highway transport systems for metropolitan districts of the future; Statement of the parking problem; Statement of the urban passenger transportation problem. Address: 117-01 Park Lane South, Kew Gardens, N.Y. 11418.

CHERNICK, PROF. JACK, b. Winnipeg, Man, Sept. 5, 15; nat; m. 39; c. 3. LABOR ECONOMICS. B.A, Manitoba, 39; fel, Minnesota, 41, A.M, 42, Ph.D. (econ), 49. Asst. prof. labor econ, Kansas, 47-51; assoc. dir. Minneapolis region, Wage Stabilization Bd, 51-53; from assoc. prof. to PROF. LABOR RELS, RUTGERS, 53- Fulbright scholar, France, 61-62; Rutgers Res. Coun. Res. in France res. grant, summer, 65. Consult, U.S. Employ. Serv, 67. Econ. Asn; Indust. Rel. Res. Asn. Collective bargaining relationships; economics of trade unionism. Publ: Co-auth, Guaranteed annual wage; Economy of southwestern Kansas; auth, Guide to the guaranteed wage. Address: Institute of Management & Labor Relations, Bldg. 4077, Kilmer Area, Rutgers University, New Brunswick, N J. 08903.

CHERNICK, DR. SIDNEY EARL, b. Winnipeg, Man, Dec. 5, 24; m. 47; c. 5. ECONOMICS. B.A, Manitoba, 47; M.A, Toronto, 48, fel, 54-55; Ph.D.(econ), Mass. Inst. Tech, 56. Lectr. econ, Melbourne, 52-54; economist, UN Hq, New York, 55-60, UN Econ. Cmn. Latin Am, 60-62; consult. human resource planning, Orgn. Econ. Coop. & Develop, 62-64; SR. ECONOMIST, ECON. COUN. CAN, 64- Address: Economic Council of Canada, P.O. Box 527, Ottawa, Ont, Can.

CHERNIKOFF, R(UBE), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

CHERNOFF, PROF. HERMAN, Math. Statist, see 11th ed, Phys. & Biol. Vols.

CHERNOW, DR. HYMAN MANASSEH, b. New York, N.Y, Mar. 18, 14. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 35; M.A, Columbia, 41; Ph.D, N.Y. Univ, 56. Camp ed. adv, Civilian Conserv. Corps, 35-37; interviewer, N.Y. State & U.S. Employ. Servs, 37-42; fel. psychoanal. psychother, POST-GRAD. CENTER MENT. HEALTH, 56-62, STAFF MEM. & LECTR, 62-, SUPVR. COMMUNITY GUID. CENTER, 62-, sr. group therapist, 62-65, supvr, 64-67. Chief. counseling unit & counseling psychologist, Vet. Admin, 46-56. Cert, Psychol. & psychoanal. & anal. group ther, Post-Grad. Center Ment. Health, 61. U.S.A, 42-45. Psychol. Asn; Group Psychother. Asn; Asn. Marriage Counsr; Personnel & Guid. Asn. Effects of psychotherapy on vocational choice; vocational adjustment as ego reinforcement and improvement; modifications in classical psychoanalytic theory and technique with stress on ego functioning; relationships between psychotherapy and the learning process. Publ: Co-auth, Changes in seating arrangement, Post Grad. Cent. Ment. Health, 62; auth, Communication between the sexes, New Outlook, 64. Address: 12 W. 96th St, New York, N.Y. 10025.

CHERNUCHIN, DR. PAUL, b. New York, N.Y, May 16, 22; m. 52; c. 2. PSYCHOLOGY. A.B, Michigan, 47; A.M, George Washington, 52, Fulbright scholar, London, 55-57, Ph.D, 57. Psychologist, State Prison of South. Mich, 47-48; case analyst, Adj. Gen. Off, U.S. Dept. Army, 50-51; mem. staff, inst. correctional admin, George Washington, 52-53; dep. probtn. officer, Los Angeles County Probtn. Dept, Calif, 55; PRES, CHERNUCHIN ASSOCS, 57- U.S.A.A.F, 43-45. Psychol. Asn. Development of instrument to discriminate between creative and noncreative personnel; problem solving. Publ: Concerning prison riots; Framework of a new therapeutic procedure; Chernuchin pictographs. Address: 108-19 67th Rd, Forest Hills, N.Y. 11375.

CHERRINGTON, DR. BEN MARK, b. Gibbon, Nebr, Nov. 1, 85; m. 24; c. 2. INTERNATIONAL RELATIONS. A.B, Nebraska, 11, LL.D, 46; A.M, California, 22; Ph.D, Columbia, 33; hon. Ps.D, Denver, 53. Prof. int. rel, Denver, 26-51, chmn. dept, 26-51, chancellor, 43-46, dir. soc. sci. found, 26-51; REGIONAL DIR, INST. INT. ED, 51- Dir. Int. Student Seminar, Geneva, 29; chief div. cultural rel, U.S. Dept. State, 38-40. Consult, Conf. UN, Calif, 45. Trustee, Carnegie Endowment Int. Peace, 43- Chmn, State Cmt. Pub. Info. & Ed, Colo, 43; v.chmn, U.S. Nat. Cmn, UNESCO, 46-52. Adv, Am. del, Inter-Am. Conf. Lima, Peru, 38; chmn, Nat. Conf. Role Higher Ed. Int. Understanding, 49. Order of the British Empire, 55; Malcolm Glenn Wyer award, Denver Adult Ed. Coun, 65; Citation, U.S. Dept. State, 67. Polit. Sci. Asn; Adult. Ed. Asn.(pres, 50-); Acad. Polit. & Soc. Sci; Soc. Inst. Law. Publ: Methods of education in international attitudes; Higher education in world affairs; Ten years of international cultural relations. Address: Institute of International Education, 1600 Sherman St, Denver, Colo. 80203.

CHERRINGTON, PROF. HOMER VIRGIL, b. Gallipolis, Ohio, Jan. 21, 91; m. 26. FINANCE. A.B, Ohio, 14, B.S, 16; A.M, Michigan, 21; A.M, Harvard, 22, Ph.D, 40. Prof. econ, Cornell Col, 22-25, head dept, Ohio, 25-29; prof. commerce, Iowa, 29-47; FINANCE, NORTHWESTERN, 47-56, EMER. PROF, 56-; EMER. PROF, OHIO, 61-, prof, 56-61. Mem. faculty, Mortgage Banking Sch, 54-59; Cameron Distinguished prof, Trinity (Tex), 61-62; summers, vis. prof, Stanford, 56-58, 60. Ed. consult, Mortgage Bankers Asn. Am, 54-56. U.S.A, 18. Econ. Asn. Mortgage financing; public regulation of securities markets. Publ: Investor and the securities act; Business organization and finance; co-ed, Mortgage banking. Address: Peach Ridge Rd, Athens, Ohio 45701.

CHERRY, DR. FRANK T(ALLEY), b. Memphis, Tenn, Dec. 4, 25; m. 59; c. 1. SOCIOLOGY. B.S, Ala. State Col, 51; M.A, Fisk, 53; Ph.D.(sociol), Chicago, 65. Instr. SOCIOL, Dillard, 53; teaching intern, Chicago, 53-54; asst. prof, Grambling Col, 59; vis. prof, Univ. Col. Ghana, 59-60; prof. & head dept, Albany State Col, 60-62; Norfolk State Col, 62-67; PROF. & COORDINATOR, TENNESSEE STATE, 67- U.S.N.R, 44-46. Sociol. Asn; Pop. Asn; African Studies Asn. Urban sociology; demography. Address: 2605 Shreeve Lane, Nashville, Tenn. 37207.

CHERTKOFF, DR. JEROME MILTON, b. Baltimore, Md, Dec. 24, 36; m. 65. PSYCHOLOGY. B.A, Hopkins, 58; M.A, Iowa, 63, Ph.D.(psychol), 64. ASST. PROF. PSYCHOL, INDIANA, 64- U.S.A.R, 61-67. Psychol. Asn. Coalition formation; bargaining; social learning. Publ: Effects of probability of future success on coalition formation, 66 & Revision of Caplow's coalition theory, 67, J. Exp. Soc. Psychol; co-auth, Opening offer and frequency of concession as bargaining strategies, J. Personality & Soc. Psychol, 67. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47405.

CHESHIRE, JOHN RUTLEDGE, b. Charleston, S.C, Dec. 15, 25; m. 56; c. 2. BUSINESS ADMINISTRATION, CHEMICAL ENGINEERING. B.E, Yale, 48; S.M, Mass. Inst. Tech, 49; M.B.A, Harvard, 51. Plant asst. engr. prod, Grasselli Dept, E.I. DU PONT DE NEMOURS CO, 51-53, chem. supvr, 53-57, sales rep, film dept, 57-59, develop. supvr. res. div, 59-61, group mgr. sales div, 61-63, VENTURE PLANNING ASST, DEVELOP. DEPT, 63- Dir. real estate, Third Nat. Bldg. Co, 66-; shrimp cultivation, Akima Inc, 67- U.S.N.R, 43-46, Lt. Inst. Chem. Eng; Chem. Soc. Developing new technology into commercial products, generally related to processing or physical chemistry phenomena. Address: Unionville, Pa. 19375.

CHESKY, EDWARD J(OSEPH), b. Kansas City, Kans, Aug. 28, 26. ECONOMICS, INTERNATIONAL AFFAIRS. A.B, Kansas, 49; M.A, Georgetown, 54; M.P.A, Harvard, 59. Tutor, Kansas, 48-49; asst. race rels, Fisk, 50; community center leader, Quaker House, Austria, 50-51; field worker labor ed, Am. Labor Ed. Serv, New York, 53-55; FOR. SERV. DEPT, 55-, v.consul, Am. Embassy, Austria, U.S. Dept. State, 56-58, trainee econ. & lang, 58-60, int. economist, U.S. Dept. Commerce, 61-63, dep. econ. adviser for Africa, U.S. Dept. State, 63-65, econ. officer, Am. Consulate, Kaduna, Nigeria, 65-67, HEAD ECON. SECT, AM. EMBASSY, KHARTOUM, SUDAN, 67- U.S.A, 44-46. Econ. Asn; For. Serv. Asn. Congruence of international affairs and economics; international labor affairs; economic development; regional economic organizations. Publ: Basic data on the economy of Austria; Doing business with the Common Market; Economic trends in the Sudan, Int. Commerce Mag, 5/68. Address: American Embassy, Box 699, Khartoum, Sudan.

CHESLER, DR. DAVID J(OSEPH), b. Cleveland, Ohio, Aug. 8, 13; m. 57; PSYCHOLOGY. A.B, Oberlin Col, 35; A.M, 36; Ph.D.(psychol), Western Reserve,

48. Psychologist, Cleveland Guid. Serv, Ohio, 37-39; voc. counsr, Cuyahoga County Child Welfare Bd, 39-40; personnel res. sect, Adj. Gen. Off, U.S. War Dept, D.C, 40-43, res. psychologist & chief, personnel rating res. unit, personnel res. br, 49-54; sr. res. assoc, personnel res. inst. & lectr. psychol, Western Reserve, 46-49; soc. scientist, Rand Corp, 55-57; Syst. Develop. Corp, 57-58, human factors scientist, 58-60, sr. human factors scientist, 60-64; PROG. DIR. PSYCHOL, U.S. NAVAL PERSONNEL RES. ACTIVITY, U.S. NAVY TRAINING RES. LAB, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.M.C, 43-46, Res, 46-, Lt. Col. Fel. Psychol. Asn. Man-machine systems; training techniques; job analysis and evaluation; personnel. Address: U.S. Naval Personnel Research Activity, U.S. Navy Training Research Lab, San Diego, Calif. 92152.

CHESNUTWOOD, DR. CHARLES MARK, Geog, see Suppl. V to 11th ed, Phys. & Biol. Vols.

CHESS, DR. STELLA, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CHESSICK, DR. RICHARD D, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CHEVALIER, SISTER FLORENCE MARIE, S.S.A, Sociol, see 10th ed, Soc. & Behav. Vols.

CHEVALIER, DR. JACQUES A(NATOLE), b. Oakland, Calif, May 13, 23; m. 46; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Yale, 48; M.A, California, 52, Ph.D.(psychol), 54. Res. psychologist, psychol. lab, Michael Reese Hosp, 53-56; Abbott Labs, 56-64; ASST. PROF. PSYCHOL, ROOSEVELT, 64- U.S.A, 42-46. AAAS; Psychol. Asn; Statist. Asn; Ecol. Soc. Motivation; animal anxiety; psychopharmacology. Publ: Co-auth, Effects of shock and handling in infancy on later avoidance learning, J. Personality. Address: Dept. of Psychology, Roosevelt University, 430 S. Michigan Ave, Chicago, Ill. 60605.

CHEVRIER, DR. JEAN-MARC, b. Cheneville, Que, Mar. 2, 16; m. 41; c. 5. CLINICAL PSYCHOLOGY. B.A, Montreal, 38, Lic. en Sci, 42, Ph.D.(psychol), 49; H.S.A, Jacques Cartier Normal Sch, 39. Teacher, pub. sch, Que, 40-42; prof. math, tech. sch, 42-46, dir. studies, 46-47; chief psychologist, Prov. Govt, 47-53; Rehab. Inst. Montreal, 53-62; dir. guid, Cath. Sch. Bd. Cmn. Montreal, 62-64; EXEC. DIR, INST. PSYCHOL. RES, INC, 64- Lectr, inst. psychol. & sch. rehab. inst, Montreal; indust. consult. Dipl, Am. Bd. Exam. Prfnl. Psychol, 56. Nat. Coun. Psychol. Aspects Disability; Am. Psychol. Asn; Can. Psychol. Asn. Clinical and counseling psychology; medical psychology applied to rehabilitation and physical medicine. Publ: Au carrefour de la vie, Inst. Psychol. Res. & Centrale du Livre, 8 books, 53 & 63; Differential aptitude test, adaptation of the American test, 61 & General aptitude battery, adaptation of the American test, 66, Inst. Psychol. Res. Address: Institute of Psychological Research, Inc, 34 Fleury St. W, Montreal 12, Que, Can.

CHEW, H(ARRY) RICHARD, b. Arlington, Va, May 18, 27; m. 46; c. 4. POLITICAL SCIENCE. B.A, Virginia, 50; LL.B, George Washington, 57. Polit. analyst, U.S. Govt, 50-57; attorney, Cent. Intel. Agency, 57-62; PARTNER, Barco, Cook, Patton & Chew, 62; BRAY & CHEW, 62-; LEGAL CONSULT, EXEC. OFF. PRESIDENT, 66- Sponsor, Inst. Mediterranean Affairs; Atlantic Coun. U.S.N.R, 44-52. Polit. Sci. Asn; Bar Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci. Law of the sea; world community process, psychological factors in international relations; role of communication in control processes. Address: 2901 N. Franklin Rd, Arlington, Va. 22201.

CHEW, DR. W(ILLIAM) B, Indust. Psychol, see 10th ed, Soc. & Behav. Vols.

CHIANG, PROF. ALPHA C(HUNG-I), b. Shanghai, China, July 19, 27; m. 54. ECONOMICS. B.A, St.John's (China), 46; M.A, Colorado, 48; Ph.D.(econ), Columbia, 54. Lectr. ECON, Bridgeport, 52-54; asst. prof, Denison, 54-59, assoc. prof, 59-64; PROF, CONNECTICUT, 64- Vis. prof, New Asia Col, Hong Kong, 60-61; Cornell, 66-67; Nat. Sci. Found. sci. faculty fel, 63-64. Econ. Asn; Economet. Soc. Economic theory; international and mathematical economics. Publ: Exercises in aggregate economics, Holt, 64; Fundamental methods of mathematical economics, McGraw, 67; Installment credit control: a theoretical analysis, J. Polit. Econ, 8/59. Address: Dept. of Economics, University of Connecticut, Storrs, Conn. 06268.

CHIANG, DR. CHIN LONG, Statist, Biostatist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CHIANG, DR. TZE I, b. Foochow, Fukian, China, Apr. 19, 23; nat; m. 52; c. 2. AGRICULTURAL ECONOMICS, STATISTICS. B.S, Fukian Christian Univ, China, 46; M.A, Okla. State, 55; Ph.D, Florida, 58. Asst. to gen. mgr, China Textile Indust. Corp, 47-53; asst. agr. econ, Okla. State, 54-55; agr. exp. sta, Florida, 55-58; asst. res. economist, INDUST. DEVELOP. DIV, ENG. EXP. STA, GA. INST. TECH, 58-62, res. economist, 62-65, SR. RES. ECONOMIST, 65- Consult, Robert N. Moore Co, Inc, Tenn, 67- Agr. Econ. Asn. Research related to industry survey studies of forest products or wood based industries; market research and economic study related to various manufacturing industries. Publ: The feasibility of producing southern pine plywood in Georgia, 10/63, The feasibility of producing laminated hardwood decking in Georgia, 2/66 & The market for U.S. Tall Oil products, 8/66, Ga. Inst. Tech. Address: Industrial Development Division, Engineering Experiment Station, Georgia Institute of Technology, 1132 W. Peachtree St. N.W, Atlanta, Ga. 30308.

CHIANG, DR. YOU-KENG, b. Wusih, China, Sept. 6, 18; m. 55; c. 2. ECONOMICS. B.A, Cent. Univ, China, 40; M.A, Chicago, 51, Ph.D, 52. Instr. econ, Massachusetts, 56-57; asst. prof, Wilkes Col, 57-60, ASSOC. PROF, 60-66; ECON. & FINANCE, ROCHESTER INST. TECH, 66- Ford Found. summer faculty res. fel, 60. Am. Econ. Asn; Economet. Soc; Royal Econ. Soc. Economic theory, money and banking; monetary theory; international trade and finance; public finance; corporation finance and investments; statistics; econometrics and mathematical economics. Address: College of Business, Rochester Institute of Technology, Rochester, N.Y. 14608.

CHIAZZE, DR. LEONARD, JR, b. Falconer, N.Y, June 19, 34; m. 54; c. 3. BIOSTATISTICS, EPIDEMIOLOGY. B.S, Buffalo, 55, M.B.A, 57; Sc.D.(biostatist), Pittsburgh, 64. Asst. health serv. officer, Nat. Cancer Inst, 57-60, sr. asst. health serv. officer, 60-63, health serv. officer, 63-64, scientist, 64-66; RES. ASSOC. CENTER POP. RES. & DIR. DIV. BIOSTATIST. & EPIDEMIOL, SCH. MED, GEORGETOWN, 66- U.S.P.H.S, 57-66, Lt. Comdr. Fel. Pub. Health Asn; Statist. Asn; Pop. Asn. Am; Soc. Epidemiol. Res. Chronic disease epidemiology, especially cancer; morbidity survey and case register methodologies; population research; statistical studies of human menstrual cycle and timing of ovulation; delivery of medical services; clinical trials. Publ: Morbidity survey and case register estimates of cancer incidence, Monogr. 19, Nat. Cancer Inst, 1/66; co-auth, Cancer of the breast at menopausal ages, Cancer, 20: 354-362 & The length and variability of the human menstrual cycle, J. Am. Med. Asn; 2/67. Address: Dept. of Community Medicine & Internal Health, Georgetown University School of Medicine, 3900 Reservoir Rd, Washington, D.C. 20007.

CHICKERING, PROF. ARTHUR WRIGHT, b. Framingham, Mass, Apr. 27, 27; m. 52; c. 4. PSYCHOLOGY, EDUCATION. B.A, Wesleyan, 50; A.M.T, Harvard, 50; Ph.D.(psychol), Columbia, 58. Teacher, pub. schs, N.J, 53-55; sch. psychologist, pub. schs, N.Y, 55-58; dir. teacher ed. prog, Monmouth Col.(N.J), 58-59; PROF. PSYCHOL. & COORDINATOR EVAL, GODDARD COL, 59-; PROG. DIR. PROJ. STUDENT DEVELOP. IN SMALL COLS, CMT. RES. & DEVELOP, COUN. FOR ADV. SMALL COLS, 65- U.S.A, 45-46. Psychol. Asn; Soc. Psychol. Study Social Issues; Soc. Sci. Study Relig. Personality development in adolescents and adults; teaching and learning; impact of post-secondary education on personality development; environment and development; college counseling. Publ: How big should a college be?, 10/66 & Curriculum, teaching, and evaluation—implications for student development, 5/68, Liberal Ed; College residences and student development, Ed. Record, spring 67. Address: R.F.D, Plainfield, Vt. 05667.

CHIEN, DR. ROBERT I, b. Tientsin, China, Nov. 29, 22; nat; m. 48; c. 3. MARKETING, BUSINESS ECONOMICS. LL.B, Nat. Southwest Assoc. Univ, China, 44; M.B.A, Denver, 47; M.A. & Ph.D, Minnesota, 53. Instr. econ. & bus. statist, Minnesota, 49-51; sr. mkt. res. analyst, Mich. Alkali Div, Wyandotte Chem. Corp, 51-54, mgr. mkt. res, 54-57; DIR. MKT. RES. & DEVELOP, G.D. SEARLE & CO, 57- Lectr, Wayne State, 56-57. External exam, Chinese Univ. Hong Kong, 63-64, consult. to v.chancellor, 64. Mem. adv. coun. mkt. res. dirs, Nat. Indust. Conf. Bd, 54-57. Mkt. Asn; Pub. Health Asn; Inst. Mgt. Sci; Opers. Res. Soc. Managerial economics; economic and business forecasting; long-range sales forecasting and planning; industrial trends for chemicals and pharmaceuticals; pricing analysis; trade name studies; new product testing; marketing information systems. Publ: The marketing of Enovid—the first oral contraceptive, Bus. Papers 47, Univ. Michigan, 3/67; The acceptance of oral contraceptives and intrauterine devices in the United States, Demog, 4/67; Testing prescription drug promotions, J. Adv. Res, 6/64. Address: G.D. Searle & Co, 4900 Searle Pkwy, Skokie, Ill. 60076.

CHILCOTE, DR. RONALD HODELL, b. Cleveland, Ohio, Feb. 20, 35; m. 61; c. 2. POLITICAL SCIENCE. A.B, Dartmouth Col, 57; M.B.A, Stanford, 59, M.A, 63, Ph.D.(Latin Am. polit), 65. Instr. & asst. dir, Inst. Hispanic Am. & Luso Brazilian Studies, Stanford, 61-63; ASST. PROF. POLIT. SCI. & COORDINATOR LATIN AM. RES. PROG, CALIFORNIA, RIVERSIDE, 63- Univ. California Faculty fel, 65; Haynes Found. fel, 66; Dry Lands Res. Inst. res. grant, 67; res, Portugal & Spain, 60-61, Portuguese Africa, 65, Brazil, 67. Publ: The press in Latin America, Stanford, 63; Portuguese Africa, Prentice-Hall, 67; Spain's iron and steel industry, Univ. Texas, 68. Address: Dept. of Political Science, University of California, Riverside, Calif. 92502.

CHILCOTT, DR. JOHN HENRY, b. Evanston, Ill, Feb. 21, 24; m. 50; c. 3. ANTHROPOLOGY. A.B, Harvard, 48; M.Ed, Colorado, 52; Kellogg Found. fel, Oregon, 55, Ph.D.(ed), 58. Asst. pres, Menlo Sch. & Col, 56-58; asst. prof. ed, California, Santa Barbara, 58-63; ASSOC. PROF. ANTHROP. & ED, ARIZONA, 63- Fulbright lectr, Trujillo, 65-66. U.S.A, 42-44. AAAS; Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Asn; Ed. Res. Asn. Education of minority group members in the United States; directed culture change. Publ: The school teacher stereotype: a new look, J. Ed. Sociol, 61; co-auth, Construction and uses of a laboratory archaeology site, Am. Antiquity, 64; auth, Social perspectives of Navajo dormitory students, Mus. North. Ariz, 68. Address: Dept. of Anthropology, University of Arizona, Tucson, Ariz. 85721.

CHILD, PROF. FRANK C(LAYTON), b. Salt Lake City, Utah, Aug. 21, 21; m. 48; c. 4. ECONOMICS. A.B, Utah, 41; A.M, Stanford, 47, Ph.D.(econ), 54. Instr. ECON, Williams Col, 50-52; asst. prof, Pomona Col, 52-56; Mich. State, 56-58, assoc. prof, 58-62; CALIFORNIA, DAVIS, 62-63, PROF. & CHMN. DEPT, 63- Economist, Mich. State Adv. Group, Viet Nam, 59-61; vis. assoc. prof, Stanford, 61-62; res. adv, Yale Univ. Pakistan Proj, 67-Econ. consult, Develop. & Resources Corp, Malaysia, 65-66, Viet Nam, 67; Agency Int. Develop, Pakistan, 66. U.S.A, 42-46, Capt. Econ. Asn. Price theory; welfare and international economics; monetary theory; economic development. Publ: German exchange control, theory and practice, Economic growth, capital formation and public policy; Exchange control in Pakistan, Econ. Develop. & Cultural Change. Address: Dept. of Economics, University of California, Davis, Calif. 95616.

CHILD, PROF. IRVIN L(ONG), b. Deming, N.Mex, Mar. 11, 15; m. 41; c. 2. PSYCHOLOGY. B.A, California, Los Angeles, 35; Ph.D.(psychol), Yale, 39. Instr. & tutor psychol, Harvard & Radcliffe Col, 39-41; res. fel, YALE, 41-42, from asst. prof. to PROF. PSYCHOL, 42- Fel, Center Adv. Study Behav. Sci, 58-59. AAAS; fel. Psychol. Asn. Personality; esthetic judgment and preference. Publ: Co-auth, A cross-cultural study of drinking, Quart. J. Studies Alcohol, Suppl. 3, 65; auth, Personality correlates of esthetic judgment in college students, J. Personality, 33: 476-511; co-auth, Some transcultural comparisons of esthetic judgment, J. Soc. Psychol, 68: 19-26. Address: Dept. of Psychology, 333 Cedar St, Yale University, New Haven, Conn. 06510.

CHILDRESS, PROF. RUSSELL L, b. Amherst, Va, June 1, 17; m. 41; c. 3. MARKETING, ECONOMICS. B.S, Va. Polytech, 41, M.S, 47; Ph.D, Cornell,

50; G.R.I, Virginia, 66. Teacher, high schs, 41, 45-46; instr. farm mgt. & sci, Va. Polytech, 46-47; res. assoc. food mkt, Cornell, 48-50; assoc. prof, Maryland, 50-52; mkt. res, U.S. Dept. Agr, 52-53, mkt. economist, fed. exten. serv, 53-60; PROF. food distribution, Delaware, 60-63; REAL ESTATE, SOUTHEASTERN, 65-, CHMN. DEPT, 66- Prof, N.Va. Community Col, 67- Consult, Coop. Food Distributors Am, 60- V.pres, Va. Realtors Inst, Univ. Virginia, 65-66; v.chmn. ed. cmt, N.Va. Real Estate Bd, 66-68. Distinguished Serv. Award, N.Va. Bd. Realtors, 66. U.S.A, 41-45, Lt. Col. Nat. Asn. Real Estate Bds; Mkt. Asn. Food marketing and distribution. Publ: Trends in affiliated wholesale retail food operations, 63 & Fiscal control in food retailing, 64, Univ. Delaware; Food retailers' evaluation of wholesalers' services, Univ. Del. Exp. Sta. Pub. Address: 6707 Crockett Place, Springfield, Va. 22150.

CHILDS, DR. FRANK E, b. Rockwell City, Iowa, Nov. 8, 13. ECONOMICS, STATISTICS. A.B, Willamette, 34; M.B.A, Southern California, 36; Ph.D, Minnesota, 56. Instr, Southern California, 36-37; temporary prof. econ. & bus. admin, Willamette, 37-38; instr. econ, Minnesota, 38-49; asst. prof. bus. admin, Western Reserve, 49-56, ASSOC. PROF. indust. & statist, 56-65; ECON, NAVAL POSTGRAD. SCH, 65- U.S.N.R, 42-45, Lt. Comdr. Econ. Asn; Statist. Asn. Labor; flexibility of labor wages. Address: Dept. of Economics, Naval Postgraduate School, Code 64, Monterey, Calif. 93940.

CHILDS, PROF. HARWOOD L(AWRENCE), b. Gray, Maine, May 1, 98; m. 22; c. 3. POLITICAL SCIENCE. A.B, Dartmouth Col, 19, A.M, 21; Harvard, 21-22; Ph.D, Chicago, 28. Instr. econ, Dartmouth Col, 19-21; asst. prof, Syracuse, 22-24; assoc. prof. govt, Col. William & Mary, 25-27; prof. polit. sci, Bucknell, 28-31; assoc. prof. POLIT, PRINCETON, 31-46, PROF, 46-Soc. Sci. Res. Coun. fel, 31-32; Guggenheim fel, Germany, 37; UN lectr, Sch. Pub. Adm, Rio de Janeiro, 53-54. Ed, Pub. Opinion Quart, Princeton, 37-40, 64- Trustee, Tilton Sch, N.H, 48-58. Area chief, Off. War info, 43-45. U.S.N, 18. Polit. Sci. Asn. Pressure groups; labor and capital in national politics; public opinion; propaganda. Publ: Introduction to the study of public opinion; co-ed, Propaganda by short wave; auth, Public opinion-nature, formation, role, Van Nostrand, 65. Address: 51 Lake Lane, Princeton, N.J. 08540.

CHILDS, RICHARD S(PENCER), Pub. Admin, see 10th ed, Soc. & Behav. Vols.

CHILDS, PROF. WILLIAM H(ERBERT), Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols, deceased 62.

CHILES, DR. WALTER DEAN, b. Ayersville, Ohio, Jan. 27, 28; m. 52; c. 1. PSYCHOLOGY. B.A, Miami (Ohio), 49; Ph.D.(psychol), Iowa, 52. Res. psychologist, behav. sci. lab, U.S. Air Force, 52-67; CHIEF HUMAN PERFORMANCE RES, CIVIL AEROMED. INST, FED. AVIATION ADMIN, 67-U.S.A.F, 52-54, Res, 57, Capt. Psychol. Asn; Psychonomic Soc. Complex performance measurement; psychonomics. Address: Civil Aeromedical Institute, Federal Aviation Administration, 118 Aeronautical Center, P.O. Box 25082, Oklahoma City, Okla. 73125.

CHILMAN, DR. CATHERINE STREET, b. Cleveland, Ohio, Sept. 20, 14; m. 36; c. 3. PSYCHOLOGY, SOCIOLOGY. A.B, Oberlin Col, 35; M.A, Chicago, 38; Ph.D.(psychol), Syracuse, 58. Caseworker, United Charities of Chicago, 37-39; Roanoke Family Serv, 39-40; from instr. to asst. prof. family rels. & child develop, Syracuse, 47-61; parent ed. specialist, children's bur, DEPT. HEALTH, ED. & WELFARE, 61-64, soc. sci. analyst, welfare admin, 64-67, CHIEF. RES. & DEVELOP. BR, OFF. RES. & DEMONSTRATIONS, SOC. & REHAB. SERV, 67- Chief soc. worker, N.Y. State Dept. Ment. Health, 57-59; proj. dir, off. ed. res. grant, Dept. Health, Ed. & Welfare, 60-61. Assoc. ed, J. Marriage & Family, 65- Pres, Nat. Groves Conf. Family, 64; bd. mem, Sex Info. & Ed. Coun. of U.S, 66- Psychol. Asn; Nat. Coun. Family Rels; Social Health Asn; Nat. Asn. Social Workers. Marriage and family relationships; personality theory and measurement; child development; poverty and the family. Publ: Your child: six to twelve, 65 & Growing up poor, 66, U.S. Govt. Printing Off; Poverty and population dynamics, Welfare Rev, 6/66 & 4/67. Address: 16 Fifth St. S.E, Washington, D.C. 20003.

CHIN, PROF. ROBERT, b. New York, N.Y, Mar. 5, 18; m. 43; c. 3. PSYCHOLOGY. B.A, Columbia, 39, M.A, 40, Ph.D.(psychol), 43; fel, City Col. New York, 42; Harvard, 46-47. Analyst, Off. Strategic Serv, 43-44; psychologist, Wash, D.C. & China, 45; analyst, U.S. Dept. State, D.C, 45; from asst. prof. to PROF. PSYCHOL, BOSTON, 47-, dir. res, human rels. center, 54-62. Gen. ed, J. Soc. Issues, 59-66. U.S.A, 42-45, 1st Lt. Psychol. Asn. Personality, society and culture; attitudes and political behavior; public opinion in China. Publ: Co-ed, The planning of change, a reader in applied behavioral science. Address: Dept. of Psychology, Boston University, Boston, Mass. 02215.

CHIN, PROF. ROCKWOOD Q(UOCK) P(ING), b. Worcester, Mass, Oct. 9, 11; m. 41; c. 3. ECONOMICS. A.B, Yale, 32, A.M, 34, Ph.D.(int. econ), 37. Compiler-translator, Nat. Inst. Compilation & Translation, China, 38-39; from lectr. to assoc. prof. econ, inst. econ, Nankai Univ, 39-40, prof, 40-44; economist, econ. bur, Civil Aeronaut. Bd, D.C, 45-46; off. bus. econ, U.S. Dept. Commerce, 46-47; assoc. prof. econ, Berea Col, 47-54, prof, 54-63; Wheaton Col. (Mass), 63-68, chmn. dept, 64-68; PROF. ECON. & ASST. DEAN GRAD. SCH, CONNECTICUT, 68- Ford fel, Harvard & Mass. Inst. Tech, 53-54; Brookings res. prof, Yale, 57-58; vis. lectr, California, 60; summer res. fels, Nat. Sci. Found, N.C. State Col, 59, Soc. Sci. Res. Coun, Michigan, 62 & Harvard, 64. Econ. Asn; Economet. Soc. Economic theory; international economics; Chinese cotton industry; balance of payments. Publ: Management industry and trade in cotton textiles, Col. & Univ, 65; The balance of payments and cotton textile competition, South. J. Bus, 7/67; The validity of mainland China's cotton textile statistics, South. J. Econ, 1/68. Address: Dept. of Economics, University of Connecticut, Storrs, Conn. 06268.

CHINITZ, PROF. BENJAMIN, b. New York, N.Y, Aug. 24, 24; m. 50; c. 2. ECONOMICS. A.B, Yeshiva, 45; A.M, Brown, 51; A.M, Harvard, 53, Ph.D. (econ), 56. Instr, Dartmouth Col, 54-55; Brown, 55-56; transportation economist, New York Metrop. Region Study, 56-59; assoc. prof. ECON, Pittsburgh, 59-62, prof. & chmn. dept, 62-66; PROF, BROWN, 66-, CHMN. DEPT, 67- Fulbright scholar, Univ. Glasgow, 65; vis. prof, Mass. Inst. Tech, 67. Dep. Asst. Secy. Commerce for Econ. Develop, U.S, 65-66. Consult, Rand Corp; Coun. Econ. Adv, 64-66. Mem, President's Task Force on Transportation Policy, 64. U.S.A.F, 46-49, Sgt. Econ. Asn; Regional Sci. Asn.(v.pres, 65). Regional and urban economics; transportation; public finance. Publ: Freight and the metropolis, Harvard, 60; co-auth, Region in transition, Univ. Pittsburgh, 63; ed, City and suburb, Prentice-Hall, 65. Address: 42 Intervale Rd, Providence, R.I. 02906.

CHINN, DR. RALPH McCALLEY, b. Fredericksburg, Va, Sept. 16, 26. EXPERIMENTAL PSYCHOLOGY. B.S, Col. William & Mary, 50; M.S, Delaware, 51; Ph.D.(psychol), Emory, 62. Psychophysiologist, U.S. Army Med. Res. Lab, Ft. Knox, Ky, 51-52; instr. psychol, med. center, Mississippi, 55-58, psychiat, 55-58, dir. lab. exp. behavior, 55-58; assoc. prof. PSYCHOL, Morehouse Col, 58-63, prof. & chmn. dept, 63-66; PROF. & HEAD DEPT, MISS. STATE, 66- Summers, Merrill European travel-study fel, 62; vis. prof, Purdue, 63; Field Found. fel, 65. U.S.N.R, 44-46, Res, Lt. Comdr. AAAS; Psychol. Asn. Cortical and subcortical behavior mechanisms; learning theory; scientific methodology. Publ; Co-auth, Position habits and discrimination learning by monkeys, The effect of three kinds of knowledge of results information on three measures of vigilance performance & Cingulate gyrus seizures: correlation of electro-encephalographic-behavioral activity in the cat. Address: Dept. of Psychology, Mississippi State University, State College, Miss. 39762.

CHINN, PROF. RONALD E(RNEST), b. Des Moines, Iowa, June 11, 11; m. 47; c. 2. POLITICAL SCIENCE. B.A, Stanford, 33, M.A, 37; Ph.D.(polit. sci), California, 58. Teacher, pub. schs, Calif, 38-60; lectr. Calif. hist, exten, Sacramento State Col, 60; asst. prof. POLIT. SCI, Whitworth Col, 60-66; ASSOC. PROF, ALASKA, 66- Summer, instr, Sacramento City Col, 59. Polit. Sci. Asn. California party politics. Address: Dept. of Political Science, University of Alaska, College, Alaska 99701.

CHINOY, PROF. ELY, b. Newark, N.J, Sept. 5, 21; m. 48; c. 2. SOCIOLOGY. B.A, Rutgers, 42; Soc. Sci. Res. Coun. fel, Columbia, 46-47, Ph.D.(sociol), 53. Instr. personnel rels, Newark Col. Eng, 42-44; SOCIOL, Wash. Sq. Col, N.Y. Univ, 45-46; lectr, Toronto, 47-51; instr, SMITH COL, 51-53, asst. prof, 53-57, assoc. prof, 57-61, PROF, 61-, chmn. dept, 61-67. Vis. prof, Univ. Leicester, 63-64. Fel. Sociol. Asn. Sociology of industry; social stratification; theory. Publ: Automobile workers and the American dream; Sociological perspective; Society: an introduction to sociology. Address: 230 Crescent St, Northampton, Mass. 01060.

CHIPMAN, PROF. JOHN S(OMERSET), b. Montreal, Que, June 28, 26. ECONOMICS. B.A, McGill, 47, M.A, 48; Bissing fel. & Ph.D.(econ), Hopkins, 51. Fel. econ. & guest, Cowles Cmn. for Res. Econ, Chicago, 50-51; asst. prof. ECON, Harvard, 51-55; assoc. prof, MINNESOTA, MINNEAPOLIS, 55-60, PROF, 60- Ford Found. Faculty Res. fel, 56-57; vis. prof, Rochester, 63-64; Harvard, 66-67. Am. Econ. Asn; fel. Economet. Soc; Statist. Asn; Oper. Res. Soc; Inst. Math. Statist; Inst. Mgt. Sci; Royal Econ. Soc. Mathematical economics; econometrics; international trade. Publ: Theory of intersectoral money flows and income formation, Johns Hopkins, 51; On least squares with insufficient observations, J. Am. Statist. Asn, 12/64; A survey of the theory of international trade, Econometrica, 7 & 10/65 & 1/66. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

CHISHOLM, PROF. JOHN W(RIGHT), b. Jackson, Miss, Mar. 18, 14; m. 48. ECONOMICS. A.B, Baylor, 36; A.M, La. State, 38, Ph.D.(econ), 52. Instr. commerce, Alabama, 39-46; ECON, LA. STATE, 46-49, asst. prof, 49-53, assoc. prof, 53-62, PROF, 62- Teacher award, Standard Oil, Ind, Found, Inc, 67. U.S.A, 42-46, Capt. Econ. Asn; Econ. Hist. Asn. Economic development of resources; economic history. Publ: Adequacy of the Louisiana employment security fund under projected economic conditions; Development and growth of the Gulf Coast petro-chemical industry. Address: College of Business Administration, Louisiana State University, Baton Rouge, La. 70803.

CHISM, DR. NEAL ASA, b. Nov. 5, 24; U.S. citizen; m. 65. ECONOMICS. B.S, California, Berkeley, 47; M.A, Nebraska, Lincoln, 51, Ph.D.(econ), 67. ASST. PROF. ECON, NEBR. WESLEYAN, 65- U.S.N, 42-46. Econ. Asn. Money and banking; comparative systems; transportation; economic policy. Address: 50th & St. Paul, Lincoln, Nebr. 68504.

CHISUM, DR. GLORIA TWINE, b. Muskogee, Okla, May 17, 30; m. 55. PSYCHOLOGY. B.S, Howard, 51, M.S, 53; Ph.D.(psychol), Pennsylvania, 60. Asst. instr. PSYCHOL, Howard, 53; asst, PENNSYLVANIA, 53-55, asst. instr, 55-58, LECTR, 58- Res. psychologist, Naval Air Develop. Center, Johnsville, 60-65, head visual br, 65- Mem. cmt. vision, Nat. Res. Coun, 66- Psychol. Asn; Optical Soc. Experimental psychology of vision, perception and learning. Publ: Co-auth, Flashblindness protection, 62 & Flash-blindness: preflash adaptation and pupil size effects, 67, J. Aerospace Med; auth, Transposition as a function of the number of test trials, J. Comp. & Physiol. Psychol, 65. Address: 4120 Apalogen Rd, Philadelphia, Pa. 19144.

CHITTICK, DR. WILLIAM O, b. Aberdeen, S.Dak, Apr. 22, 37. POLITICAL SCIENCE. B.A, S.Dak. State, 59; Ph.D.(polit. sci), Hopkins, 64. ASST. PROF. govt, Fla. State, 65-66; POLIT. SCI, GEORGIA, 66- U.S.A, 63-65, 1st Lt. Polit. Sci. Asn. American foreign policy; international relations. Address: Dept. of Political Science, University of Georgia, Athens, Ga. 30601.

CHIU, PROF. JOHN SHIH-YAO, b. Soochow, Kiangsu, China, Sept. 8, 28; m. 59; c. 1. STATISTICS, ECONOMETRICS. B.A, Taiwan, 53; fels, Kentucky, 53-55, M.S, 55; fel, Illinois, 55-57, Ph.D, 60. Asst. econ. & statist, Illinois, 57-60; asst. prof. STATIST, col. bus. admin, WASHINGTON (SEATTLE), 60-63, ASSOC. PROF, GRAD. SCH. BUS. ADMIN, 63- Ford Found. faculty summer res. grant, 61; vis. economet. adv, Coun. Int. Econ. Coop. & Develop, Exec. Yuan, Taiwan, 67-68. Econ. Asn; Statist. Asn; Economet. Soc. Address: 10303 35th N.E, Seattle, Wash. 98125.

CHO, DR. SOON SUNG, b. Soon Chun, Korea, Mar. 22, 29; m. 55; c. 2. POLITICAL SCIENCE. B.A, Seoul, 53; M.A, Michigan, 55 & 58, Ph.D.(polit), 60. Asst. prof. polit. sci, Yonsei, Korea, 59-61; assoc. prof. polit, Korea Univ, 61-63; exchange prof, Southern Illinois, 63-64; ASSOC. PROF. POLIT. SCI, Nebraska, Lincoln, 64-68; MISSOURI, COLUMBIA, 68- Vis. assoc. prof, Int. Christian Univ, Tokyo, 61-63, Washington (Seattle), 66-67 & Oregon, 67-68. Repub. of Korean Army, 51-53, 1st Lt. Am. Polit. Sci. Asn; Asn. Asian Studies; Korean Int. Polit. Sci. Asn.(v.pres, 60-61). Asian international relations, especially on North Korea in Sino-Soviet competition. Publ: Co-auth, Future of the military government, Hak Won Sa, 61; auth, Political tradition of the West, Ulryu Munhwa Sa, 63; Korea in world politics: 1940-1950, Univ. California, 67. Address: Dept. of Political Science, University of Missouri, Columbia, Mo. 65201.

CHO, DR. YONG HYO, b. Sa-Chun, Korea, Dec. 14, 34; m. 60; c. 2. POLITICAL SCIENCE. B.A, Seoul, 60; M.P.A, Syracuse, 62, Ph.D.(polit. sci), 65. Instr. polit. sci, Nevada Southern, 64-65, asst. prof, 65-67, chmn. dept, 66-67; ASST. PROF. POLIT. SCI. & URBAN STUDIES, AKRON, 67-, ASST. DIR. CENTER URBAN STUDIES, 67- Polit. Sci. Asn; Soc. Pub. Admin. Local government and finances of metropolitan areas; state legislature and reapportionment; urban politics in the United States. Publ: The effect of local governmental systems of local policy outcomes in the United States, Pub. Admin. Rev, 3/67. Address: Center for Urban Studies, University of Akron, Akron, Ohio 44304.

CHO, DR. YONG SAM, b. Korea, Jan. 1, 25. ECONOMICS. M.D, Severance Union Med. Col, 48; B.A, Washington (Seattle), 56, M.A, 57; Ph.D.(econ), California, Los Angeles, 61. Instr. money & banking, California, Los Angeles, 61-62; asst. prof. ECON. DEVELOP. & MONEY & BANKING, CALIFORNIA STATE COL. LOS ANGELES, 62-66, ASSOC. PROF, 66-, res. & creative leave grant, 68. Cent. Banking Seminar fel, Fed. Reserve Bank San Francisco, 67. U.S.A, 50-52, 1st Lt. Soc. Int. Develop. Economic development in underdeveloped areas with special emphasis on financial planning. Publ: Disguised unemployment in underdeveloped areas, Univ. Calif, 63; Are the limitations imposed on trading with Communist China such as to be helpful in the achievement of national objectives of western nations?, Conf. Proc. Inst. World Affairs, 64; An estimate of technical and tradition-directed underemployment, Indian Econ. J, 1-3/66. Address: Dept. of Economics, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

CHO, DR. YOUNG RIN, b. Seoul, Korea, June 7, 33; m. 63. ECONOMICS, OPERATIONS RESEARCH. B.A, Transylvania Col, 58; Ph.D.(econ), Massachusetts, 66. Teaching asst. ECON, Massachusetts, 63-64; ASST. PROF, MEMORIAL UNIV, 65- Proj. economist, area develop. agency, Dept. Indust. Can, 66- Econ. consult, Royal Cmn. Econ. State & Prospect of Newf. & Labrador, 66-67. Am. Econ. Asn; Can. Econ. Asn. Benefit-cost analysis, theoretical refinements; strategies of economic development, definition in terms of operational models. Publ: Demand structure and economic development, Seidai, 66; auth, Wholesale and retail trade structure in Newfoundland, 67 & co-auth, The service sector industries in Newfoundland, 67, Royal Cmn. Reports. Address: Dept. of Economics, Memorial University, St. John's, Newf, Can.

CHODORKOFF, DR. JOAN ROSMARIN, b. New York, N.Y, Feb. 17, 29; m. 51. CLINICAL & CHILD PSYCHOLOGY. Scholar. & B.A, Marietta Col, 50; univ. scholar. & M.A, Wisconsin, 53; univ. scholar. & Ph.D, Wayne State, 60. Psychometrist, nursery sch, Chicago, 51-52; asst, Wisconsin, 52-53; child guid. psychologist, Childrens Center Wayne County & State Child Guid. Clin, Mich, 54-60; CHIEF PSYCHOLOGIST, CHILDRENS PSYCHIAT. UNIT, DETROIT RECEIVING HOSP, 60-; ADJ. ASST. PROF. PSYCHOL. & ASSOC. PEDIAT, WAYNE STATE & DETROIT GEN. HOSP, 66-, res. assoc, 60-66, lectr, 64. U.S. Pub. Health Serv. fel, 60-61; lectr, Univ. Center Adult Ed, 62-63. Mem, Receiving Hosp. Res. Corp, 61-62; part-time staff, Adult Psychiat. Clin, 65-66. Psychol. Asn; Orthopsychiat. Asn. Infant ego development as a function of mother-child interaction; psychiatric emergencies in children and adolescents; evaluation of the alternatives, family versus institutional placement in terms of current knowledge of mothering needs. Publ: Co-auth, Perceptual defense: an integration with other research findings, J. Gen. Psychol. & Intellectual status of children with sickle cell anemia, J. Pediat, 63. Address: 19435 Shrewsbury Rd, Detroit, Mich. 48221.

CHOLDIN, DR. HARVEY M, b. Chicago, Ill, Apr. 3, 39; m. 62; c. 2. SOCIOLOGY. B.A, Chicago, 60, M.A, 63, Ph.D.(sociol), 65; fel, Princeton, 60-61. Demographic analyst, Pop. Coun, 63-65; ASST. PROF. SOCIOL, MICH. STATE, 65- AAAS. Sociol. Asn; Pop. Asn. Modernization, especially in South Asia; population, especially the social aspects of migration and fertility and fertility control. Publ: Co-auth, New family planners in rural East Pakistan, Demography, 65; auth, Urban cooperatives at Comilla, Pakistan: a case study of local-level development, (in press) & The development project as natural experiment: the Comilla, Pakistan projects, (in press), Econ. Develop. & Cultural Change. Address: Dept. of Sociology, Michigan State University, East Lansing, Mich. 48823.

CHOROST, DR. SHERWOOD BRUCE, b. New York, N.Y. Mar. 7, 33. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 53; Maryland, 53-54; Nat. Inst. Ment Health fel, Texas, 59-60, Ph.D, 60. Asst. psychol, Hogg Found, Texas, 55-57; trainee clin. psychol, col. med, Baylor, 57-58; Devereux Schs, 58-59, fel, Devereux Found, 59; staff psychologist, Seton Hall Col. Med, 60-61; sch. psychologist, Syracuse Bd. Ed, 61-64; DIR. PSYCHOL. SERV. & TRAINING, STATEN ISLAND MENT. HEALTH CENTER, 64- Lectr, Syracuse, 61; clin. asst. prof, State Univ. N.Y. Downstate Med. Center, 64-; lectr, Wagner Col, 65-; adj. assoc. prof, Richmond Col.(N.Y), 67- Psychol. Asn; Orthopsychiat. Asn; Soc. Res. Child Develop. Assessment of impact of special education programing for exceptional children; special educational programming for emotionally disturbed and perceptually handicapped children; school consultation; emotional, perceptual, psycholinguistic and conceptual development. Publ: Co-auth, Evaluation of nursery school experience on later school adjustment of culturally disadvantaged children, U.S. Off. Ed. Res. Proj, 66 & Evaluation of the effects of summer head start program, U.S. Off. Econ. Opportunity Res. Proj, 66; auth, Parental child-rearing attitudes and their correlates in adolescent aggression, Genetic Psychol. Monogr, 62. Address: 1385 Boynton Ave, Westfield, N.J. 07090.

CHOROVER, DR. STEPHAN LEWIS, Psychophysiol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

CHOU, DR. JOSEPH TAO-HSIUNG, b. China, Jan. 21, 24; m. 58. ECONOMETRICS. B.Ll, Nat. Southwest. Assoc. Univ, China, 45; M.S, Cornell, 56; Ph.D. (econmet), Iowa State, 61. Res. assoc. agr. econ, Iowa State, 60-61; mkt. res, data processing div, Int. Bus. Mach. Corp, 61-62, prog. adminstr, 62-64, assoc. systs. engr, Bridgeport Off, 64-65, adv. corp. planning, corp. hq, 65, asst. to regional mgr. admin, region 1 off, Int. Bus. Mach. World Trade Asia Corp, 66, mgr. mkt, Int. Bus. Mach. World Trade Corp, Hong Kong, 67-68, GEN. MGR. INT. BUS. MACH. TAIWAN CORP, 68- Econmet. Soc; Econ. Asn; Statist. Asn; Agr. Econ. Asn. General economics; statistics; mathematics; agricultural economics; marketing and business management; operations and industrial research; management science. Publ: Applications in integer programming, Can. J. Agr. Econ. Address: IBM Taiwan Corp, Chia Hsin Bldg, 96 Chung Shan Rd. N, Section 2, Taipei, Taiwan.

CHOU, PROF. SHUN-HSIN, b. Shanghai, China, Oct. 15, 15; nat; m. 45; c. 2. ECONOMICS. B.A, Yenching Univ, China, 35; A.M, California, 41; Ph.D, Columbia, 45. Economist, Chinese Del. UN Conf, 44-45; sr. economist, Cent. Bank China, 45-47, asst. gen. mgr, 47-50; mgr, Overseas Chinese Banking Corp, 50-53; res. fel. ECON, Columbia, 53-55; ASSOC. PROF, Col. William & Mary, 55-57; PITTSBURGH, 57- Vis. assoc. prof, Columbia, 60-61; vis. prof, Chinese Univ. Hong Kong, 66; Nat. Defense Ed. Act fel, 66. Econ. Asn; Econmet. Soc. Theory of inflation; theory of economic development; economic development in pre-Communist and Communist China. Publ: Capital levy; China under hyperinflation, 1937-1949; contrib. to South. Econ. J. & J. Asian Studies. Address: Dept. of Economics, University of Pittsburgh, Pittsburgh, Pa. 15213.

CHOU, DR. VICTOR, b. Shanghai, China, Nov. 10, 22; nat; m. 49; c. 4. ECONOMICS. B.A, Nat. Cent. Univ, China, 44; M.B.A, Wisconsin, 48, Ph.D. (econ, bus. admin), 53. Mgt. trainee, ALLIS-CHALMERS, 48-49, acct, 53-56, statistician, 56-57, ECONOMIST, 57- Instr, Wisconsin-Milwaukee, 58-59; lectr, indust. mgt. inst, Wisconsin, 60; int. trade inst, Marquette, 60. Planning Asn; Econ. Asn; Finance Asn; Statist. Asn; Asn. Bus. Econ. Business conditions; corporate operations and planning. Address: Allis-Chalmers, Box 512, Milwaukee, Wis. 53201.

CHOU, DR. YA-LUN, b. Chungking, China, July 7, 24; m. 56; c. 1. ECONOMICS, STATISTICS. B.A, Nat. Southwest Associated Univ, China, 45; M.A, Cincinnati, 48; Ph.D, Pennsylvania, 51. Assoc. prof. bus. & econ. & chmn. dept, Hampton Inst, 50-55; assoc. prof. econ. & statist, Morgan State Col, 55-56; ECON, PACE COL, 56-60, prof, 60-66, RES. PROF, 66- Econ. Asn; Statist. Asn. Economic theory and policies; application of statistics to economic and business problems; statistical analysis. Publ: Applied business and economic statistics; Chinese agrarian reform and Bolshevik land policy, Pac. Affairs; Monetary and fiscal controls to meet our economic goals, Commercial & Financial Chronicle. Address: 61-11 171st St, Fresh Meadows, N.Y. 11365.

CHOUKAS, PROF. MICHAEL (EUGENE), b. Samos, Greece, Nov. 16, 01. SOCIOLOGY. A.B, Dartmouth Col, 27; A.M, Columbia, 28, Ph.D, 35. Instr. SOCIOL, DARTMOUTH COL, 29-35, asst. prof, 35-40, PROF, 40-, CHMN. DEPT. SOCIOL. & ANTHROP, 49- Mem, State Cmt. on Morale, N.H, 41-44; dir, State Surv. Alcoholism, 46. With Off. Strategic Serv, 44-45. Sociol. Asn. Propaganda. Publ: Black angels of Athos; Propaganda comes of age, Pub. Affairs, 65; Islanders of the Aegean. Address: Dept. of Sociology & Anthropology, Dartmouth College, Hanover, N.H. 03755.

CHOW, DR. GREGORY C(HI-CHONG), b. Macau, China, Dec. 25, 29; m. 55. ECONOMICS. A.B, Cornell, 51; A.M, Chicago, 52, univ. fel. & Knight fel. & Ph.D.(econ), 55. Res. assoc. econ, Chicago, 55; asst. prof. statist, Mass. Inst. Tech, 55-59; assoc. prof. ECON. Cornell, 59-62; STAFF MEM, INT. BUS. MACH. CORP, 62- Vis. prof, Cornell, 64-65; Harvard, 67; adj. prof, Columbia, 65- Econ. Asn; Statist. Asn; fel. Econmet. Soc. Economic theory; statistics; econometrics. Publ: Demand for automobiles in the United States; co-auth, Demand for durable goods; auth, Multiplier, accelerator and liquidity preference in the determination of national income, Rev. Econ. & Statist, 2/67. Address: International Business Machines Corp, Research Center, P.O. Box 218, Yorktown Heights, N.Y. 10598.

CHOW, PROF. YUNG-TEH, b. Chekiang, China, Oct. 28, 16. SOCIAL STRATIFICATION & MOBILITY. B.A, Nat. Tsing Hua Univ, China, 37; fel. from Nat. Tsing Hua Univ, Chicago, 48, M.A, 51, Henderson fel, 55, Ph.D.(sociol), 58. Ed, Nat. Asn. Adv. Mass Ed, China, 37-39; asst. pub. admin, socio-econ. inst, Nat. Yunnan Univ, 39-41; res. instr, inst. census res, Nat. Tsing Hua Univ, 41-46, instr. sociol, 46-48; asst. prof, Eastern Michigan, 58-61; demog, Chicago, 61-62; assoc. prof. SOCIOL, Moorhead State Col, 62-65, PROF, 65-67; NORTHERN MICHIGAN, 67- Wenner-Gren Found. res. grant, 59. Sociol. Asn; Asn. Asian Studies; Pop. Asn. Community study in Chinese population. Publ: Social mobility in China; co-auth, China's gentry. Address: Dept. of Sociology, Northern Michigan University, Marquette, Mich. 49855.

CHRISMAN, DR. NOEL J, b. Visalia, Calif, July 30, 40; m. 62. ANTHROPOLOGY. A.B, California, Riverside, 62, Ph.D.(anthrop), Berkeley, 66, Nat. Inst. Ment. Health fel, 66-67, M.P.H, 67. ASST. PROF. ANTHROP, POMONA COL, 67- Anthrop. Asn. Formation and persistence of small social groups in urban areas. Publ: Invisible ethnicity, In: Claremont reading conference, 32nd yearbook, Claremont Grad. Sch, 68. Address: Dept. of Anthropology, Pomona College, Claremont, Calif. 91711.

CHRIST, DR. ADOLPH E(RVIN), b. Reedley, Calif, May 13, 29; m. 51; c. 4. CHILD PSYCHIATRY. A.B, California, Berkeley, 51; M.D, California, San Francisco, 54. Intern, univ. hosp, California, San Francisco, 54-55; resident psychiat, Langley Porter Neuropsychol. Inst, 58-60, child psychiat, 60-62; instr, med. sch, Washington (Seattle), 62-65, asst. prof, 65-67, dir. psy-

chol. inst. Scivia children, 62-67; ASST. PROF. CHILD PSYCHIAT. DIR. INPATIENT CHILD PSYCHIAT, ALBERT EINSTEIN COL. MED, 68- Dipl. child psychiat, Am. Bd. Psychiat. & Neurol, 62, 67. Med.C, U.S.A, 56-58, Capt. Psychiat. Asn; Orthopsychiat. Asn; Col. Psychiat; World Fedn. Ment. Health. Treatment of childhood psychosis, especially milieu treatment. Publ: Sexual countertransference problems with a psychotic child, J. Am. Acad. Child Psychiat, 3:298-316; Parent-nurse therapeutic contact on a child psychiatry unit, Am. J. Orthopsychiat, 35:589-593; Prevention of iatrogenic factors in child residential treatment, In: Current psychiatric therapies, Grune, 66. Address: Dept. of Psychiatry, Albert Einstein College of Medicine, Yeshiva University, Bronx, N.Y. 10461.

CHRIST, PROF. CARL F, b. Chicago, Ill, 23; m. 51; c. 3. ECONOMICS. B.S, Chicago, 43, Soc. Sci. Res. Coun. fel, 48-50, Ph.D.(econ), 50. Jr. physicist, metall. lab, Chicago, 43-45; instr. physics, Princeton, 45-46; res. assoc, Cowles Cmn. Res. Econ, 49-50; asst. prof. ECON, Hopkins, 50-53; assoc. prof, 53-55; Chicago, 55-61; PROF, HOPKINS, 61- Fulbright scholar, Cambridge, 54-55; vis. prof, Tokyo, 59; fel, Center Adv. Study Behav. Sci, 60-61; Keynes vis. prof, Essex, 66-67. Am. Econ. Asn; Economet. Soc; Statist. Asn; Royal Econ. Soc. Econometrics. Publ: Econometric models & methods, Wiley, 66; Econometrics and model-building, Ann. of Am. Acad. Polit. & Soc. Sci, 67; A short-run aggregate-demand model of the interdependence and effects of monetary and fiscal policies with Keynesian and classical interest elasticities, Am. Econ. Rev, 67. Address: Dept. of Political Economy, Johns Hopkins University, Baltimore, Md. 21218.

CHRIST, PROF. EDWIN A(RTHUR), b. St. Louis, Mo, Aug. 1, 17; m. 42; c. 2. SOCIOLOGY, SOCIAL ANTHROPOLOGY. A.B, Missouri, 41, Ph.D, 57; M.A, Mich. State, 42. Supvr. acct, U.S. Rubber Co, Mich, 42-46; instr. eng, Wayne State, 46; Missouri, 46-49, sociol, 49-53, res. assoc, inst. res. soc. sci, 53-57; asst. prof, South Dakota, 57-61, assoc. prof, 61-66; PROF. SOCIOL. & ANTHROP. & CHMN. DEPT, WESTMINSTER COL.(MO), 66- Fel, Midwest Coun. Soc. Res. in Aging, 60-66; faculty fel, Inst. Community Studies, Mo, 62-63. Prin. investr, Am. Nurses' Found, 55-57. Consult, Nat. Funeral Dirs. Asn, 56-59. Fel. Sociol. Asn. Sociology of occupations and professions; criminology and penology; social gerontology; re-engagement of the retired aged in economic spheres of activity based on earlier and continuing avocational interests, knowledge and competence. Publ: Co-auth, Professionalizer, traditionalizer and utilizer; Nurses at work; Missouri's nurses: history of nursing in Missouri. Address: Dept. of Sociology & Anthropology, Westminster College, Fulton, Mo. 65251.

CHRIST, DR. RICHARD E(DWARD), b. Toledo, Ohio, Apr. 19, 37; m. 61; c. 1. PSYCHOLOGY. B.S, Toledo, 61, M.A, 62; Ph.D.(psychol), Massachusetts, Amherst, 65. ASST. PROF. PSYCHOL, KANSAS STATE, 65- Summer res. assoc, inst. environ. psychophysiol, Univ. Massachusetts, 65. AAAS; Psychol. Asn; Human Factors Soc. Perceptual motor skills; human information processing skills; human factors engineering. Publ: Co-auth, Short-term memory under work-load stress, J. Exp. Psychol, 65; Effects of differential value on the recall of realistic targets, Human Factors J, 67; auth, Effects of pay off and probability on recall of multisymbol displays, J. Gen. Psychol, 67. Address: Dept. of Psychology, Kansas State University, Manhattan, Kans. 66502.

CHRISTAL, DR. RAYMOND E, b. Cedar Valley, Tex, Aug. 4, 24; m. 48; c. 4. EDUCATIONAL PSYCHOLOGY. B.S. & M.S, N.Tex. State Col, 48; Ph.D, Texas, 56. Supvr. officer selection & classification center, personnel & training res. center, air res. & develop. command, U.S. DEPT. AIR FORCE, 54-56, asst. chief selection & classification res. br, PERSONNEL LAB, 56-58, CHIEF OCCUP. STRUCTURES RES. BR, AIR FORCE SYSTS. COMMAND, 58- Vis. instr, Trinity (Tex), 56-59. U.S.N, 43-46, Lt.(jg). Psychol. Asn. Psychometric methods; factor analysis; clustering techniques; personality, achievement and aptitude measurement; memory; work structuring; job evaluation; occupational analysis techniques; personnel management models; policy capturing; operations research. Publ: Factor analytic study of visual memory, Psychol. Monogr; Simple formula aids for understanding the joint action of two predictors, J. Appl. Psychol; Iterative technique for clustering criteria. Address: 261 Pollydale, San Antonio, Tex. 78223.

CHRISTENSEN, PROF. C(ARL) ROLAND, b. Tyler, Minn, Aug. 17, 19; m. 43; c. 4. BUSINESS ADMINISTRATION. A.B, Iowa, 41; M.B.A, Harvard, 43, D.C.S, 53. Instr. BUS. ADMIN, HARVARD, 46-48, asst. prof, 48-53, assoc. prof, 53-57, PROF, 57- U.S.A, 43-46, Capt. Sociol. Asn; Soc. Appl. Anthrop; Acad. Polit. Sci; Soc. Pub. Admin. Organizational behavior; French national planning. Publ: Co-auth, Policy formulation and administration; Worker motivation, productivity and satisfaction; Business policy; text and cases, Irwin, 65. Address: 4 Oakmount Circle, Lexington, Mass. 02173.

CHRISTENSEN, DR. CHRIS(TIAN) L(AURITHS), Bus. & Agr. Econ, see 10th ed, Soc. & Behav. Vols.

CHRISTENSEN, PROF. DAVID E(MUN), b. Ashland, Wis, Feb. 17, 21; m. 46; c. 3. GEOGRAPHY. M.A, Chicago, 48, Ph.D, 56. From asst. prof. to assoc. prof. GEOG, Fla. State, 48-62; assoc. prof, SOUTHERN ILLINOIS, 62-67, PROF, 67-, ASST. DEAN COL. LIBERAL ARTS & SCI, 66- Vis. lectr, Liverpool, 64-65. U.S.A.A.F, 42-46. Asn. Am. Geog; Coun. Geog. Ed; Inst. Brit. Geog. Cartography; teaching of geography; resource management. Publ: Co-auth, Florida reference atlas; Urban development, Holt, 64; World of the late 1960's, Stipes, 67. Address: Dept. of Geography, Southern Illinois University, Carbondale, Ill. 62901.

CHRISTENSEN, PROF. HAROLD T(AYLOR), b. Preston, Idaho, Mar. 10, 09; m. 35; c. 5. SOCIOLOGY. B.S, Brigham Young, 35, M.S, 37; Ph.D, Wisconsin, 41. From instr. to prof. SOCIOL. & chmn. dept, Brigham Young, 35-47; PROF, PURDUE, 47-, head dept, 47-62. Leader div. farm pop. & rural life, bur. agr. econ, U.S. Dept. Agr, 44-45; Fulbright res. fel, Denmark, 57-58; vis. prof, Univ. Hawaii, 65. Summers, vis. prof. Pa. State, 49, Utah, 51, California, Berkeley, 56 & Brigham Young, 61 & 67, res. fel, behav. sci. center, Bowman Gray Sch. Med, 66. Ed, Marriage & Family Living, 57-59. Bd. mem, Sex Info. & Ed. Coun. U.S, 67- Sociol. Asn; Sociol. Res. Asn; Pop. Asn; Nat. Coun. Family Rels.(pres, 60-61, Burgess res. award, 67). Family sociology; population; cross-cultural research; marriage education. Publ: Marriage analysis, Ronald, 50 & rev. ed, 58; ed, Handbook of marriage & the family, Rand McNally, 64. Address: Dept. of Sociology, Purdue University, Lafayette, Ind. 47907.

CHRISTENSEN, PROF. JAMES B(OYD), b. Utah, Dec. 24, 21; m. 47; c. 2. ANTHROPOLOGY. B.S, Utah, 47, M.S, 48; Fulbright scholar, Northwestern, 50-51, Soc. Sci. Res. Coun. fel, 50-51, Viking Fund fel, 51-52, Ph.D.(anthrop), 52. Instr. ANTHROP, WAYNE STATE, 52-56, asst. prof, 56-60, assoc. prof, 60-66, PROF, 66- Nat. Sci. Found. sr. fel, 59-60, scholar, 62-63. Consult, U.S. Govt, Africa. U.S.A.A.F, 42-46, Lt. Fel. AAAS; fel. Anthrop. Asn; fel. African Studies Asn; Royal African Soc; Int. African Inst. Cultural anthropology; subsaharan Africa; Negro in new world; social organization; culture change; primitive religion. Publ: Double descent among the Fanti; Adaptive functions of the Fanti priesthood, In: Continuity and change in Africal Cultures; Utani: joking, sexual license and social obligations among the Luguru, Am. Anthropologist, 12/63. Address: 30259 Spring River, Dr, Southfield, Mich. 48075.

CHRISTENSEN, JOHN E(DWARD), b. Davenport, Iowa, Nov. 14, 15; m. 45; c. 3. GEOGRAPHY. B.A, Ariz. State Teachers Col, Tempe, 38, M.A, 39; Nebraska, 40-42, 50-54; Oxford, 45-47; summer, Virginia, 50. Instr. soc. sci, Ariz. State Teachers Col, Tempe, 47-48, geog. & soc. sci, 48-49, geog, 48-50, asst. prof, 50-52; overseas prog, Maryland, 52-53; Mich. Col. Mining & Tech, 54-59; supt, Chassell Pub. Schs, 59-61; Marenisco Sch, 61-63; asst. prof. geog, E.Carolina Col, 63-64; MEM. FACULTY GEOG. & PSYCHOL, SUOMI COL, 65-, ACTING CHMN. DEPT. SOC. SCI, 67- U.S.A.A.F, 42-46. Asn. Am. Geog; Coun. Geog. Ed. Dry regions; North Africa; political geography; geographic aspects of property taxation. Address: Route 1, Box 67, Hancock, Mich. 49930.

CHRISTENSEN, DR. JULIEN M(ARTIN), b. Capron, Ill, Sept. 3, 18; m. 41, 54; c. 3. PSYCHOLOGY. B.S, Illinois, 40; Texas, 42; M.A, Ohio State, 52, Ph.D, 59. Res. psychologist, AEROSPACE MED. RES. LABS, WRIGHT-PATTERSON AIR FORCE BASE, 46-50, asst. chief, psychol. br, 51-56, chief, 56-66, DIR, HUMAN ENG. DIV, 67- Lectr, U.S. Air Force Inst. Tech, 62-; Am. Psychol. Asn-Nat. Sci. Found. vis. scientist prog, 63-; Wright State, 64-; summers, Michigan, 60- Consult, Inst. Tech. & Higher Studies of Monterrey, Mex, 65-; two working groups, Nat. Acad. Sci. U.S. Air Force Except. Civilian Serv. decoration, 66. U.S.A.A.F, 41-46, Capt. AAAS; fel. Psychol. Asn; Human Factors Soc.(pres, 65); Aerospace Med. Asn. Human and systems engineering. Publ: Scientific methods for use in the investigation of flight crew requirements; The sampling method of activity analysis, Personnel Psychol; co-auth, Role of man in space research, Nat. Acad. Sci, 65. Address: Human Engineering Division, Aerospace Medical Research Labs, Wright-Patterson Air Force Base, Ohio 45433.

CHRISTENSEN, DR. KENT R(ONALD), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

CHRISTENSEN, DR. RAYMOND P(ETER), b. Racine, Wis, Jan. 14, 14; m. 40; c. 2. ECONOMICS. B.S, Wisconsin, 36, Ph.D, 47. Dep. dir. FOR. DEVELOP. & TRADE DIV, ECON. RES. SERV, U.S. DEPT. AGR, 63-68, DIR, 68- Consult, Econ. Coop. Admin, U.S. in U.K, 51-52; Food. & Agr. Orgn, UN, Argentina, 56. U.S. Dept. Agr. superior serv. award, 67. U.S.N, 44-46, Lt.(jg). Am. Asn. Agr. Econ; Brit. Agr. Econ. Soc. Economic development; foreign trade. Publ: Efficient use of food resources in the United States, Tech. Bull, U.S. Dept. Agr; co-auth, How the United States improved its agriculture, 3/64 & auth, Taiwan's agricultural development: its relevance for developing countries today, 68, U.S. Dept. Agr. Address: Foreign Development & Trade Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

CHRISTENSEN, DR. ROBERT LAWRENCE, b. Lakeview, Mich, June 6, 35; m. 60; c. 2. ECONOMICS. B.S, Mich. State, 58; M.S, Delaware, 60; Ph.D. (econ), N.C. State, 67. ASST. PROF. RESOURCE ECON, NEW HAMPSHIRE, 63- Agr. Econ. Asn. Marketing of food products, particularly management decision-making in agri-business firms. Address: R.R. 2, Box 99, Dover, N.H. 03820.

CHRISTENSEN, DR. RONDO, b. Oasis, Utah, July 18, 30; m. 52; c. 3. AGRICULTURAL ECONOMICS. B.S, Utah State, 54; M.S, Cornell, 55, Denison fel, 56-57; Ph.D.(agr. econ), 57. Asst. agr. econ, Cornell, 55-56; asst. prof, Utah State, 57-61, assoc. prof, 62-63; agr. economist, Bank of Am, 63-64; ASSOC. PROF. AGR. ECON, UTAH STATE, 65- Agr. Econ. Asn. Dairy marketing; agricultural cooperatives; public finance. Address: Dept. of Agricultural Economics, Utah State University, Logan, Utah 84321.

CHRISTENSEN, DR. THOMAS EDISON, b. Worcester, Mass, June 16, 08; m. 34; c. 2. PSYCHOLOGY. A.B, Clark, 30; Ed.M, Harvard, 34, Ed.D, 46. Asst. prof. guid. & counsr, Kansas, 46-47; asst. prof, Boston, 47-48; DIR. GUID, WORCESTER PUB. SCHS, 48- Vis. prof, Rhode Island, 66; summer vis. prof, N.Y. Univ, 48, 55, Vermont, 49-54, Clark, 56, Springfield Col, 62, Mass. State Col. Fitchburg, 66. Psychol. Asn. Guidance; counseling. Publ: Getting job experience; Gathering and filing occupational information; co-auth, Guidance and curriculum guide for 9th grade general occupations, Worcester, Mass. Pub. Schs, 66. Address: 25 Calumet Ave, Worcester, Mass. 01606.

CHRISTENSON, PROF. C(ARROLL) L(AWRENCE), b. Viroqua, Wis, May 9, 02. ECONOMICS. Ph.B, Chicago, 24, Ph.D, 31; Am-Scandinavian Found. fel, Oslo, 31. Instr. ECON, Indiana, 25-27; Lewis Inst, 29-30; assoc. prof, Hamilton Col, 31-32; asst. prof, INDIANA, 32-35, assoc. prof, 35-37, PROF, 37-, chmn. dept, 45-50. Adv, Nat. Recovery Admin, 33-34; regional price exec, Off. Price Admin, 41-43; admin. price control, U.S. Dept. State, Repub. Costa Rica, 44. Econ. Asn. Industrial and labor economics; general economic theory; economic principles and problems. Address: 213 S. Bryan Ave, Bloomington, Ind. 47401.

CHRISTENSON, DR. CHARLES JOHN, b. Chicago, Ill, Sept. 25, 30. ECONOMICS, STATISTICS. B.Sc, Cornell, 52; M.B.A, Harvard, 54, D.B.A. (managerial econ), 61. Instr. BUS. ADMIN, HARVARD, 57-58, lectr, 59-61, asst. prof, 61-63, ASSOC. PROF, 63-; SR. V.PRES, MGT. ANAL. CENTER, INC, 66- Consult, Arthur D. Little, Inc, 61-62; dep. to asst. secy, U.S. Dept. Air Force, 62-63, consult, 63-66. A.U.S, 55-56. Econ. Asn; Statist. Asn; Inst. Mgt. Sci. Capital budgeting under uncertainty. Publ: Co-auth, Managerial economics: text and cases, Irwin, 62; auth, Competitive bidding for corporate debt security, Harvard Bus. Sch, 65; Capital budgeting and long-range planning, Progress Opers. Res, 64. Address: Dept. of Business Administration, Harvard University, Soldiers Field, Boston, Mass. 02163.

CHRISTENSON, PROF. DONALD D(EE), b. Concordia, Kans, May 31, 34; m. 57; c. 2. MARKETING, BUSINESS MANAGEMENT. B.S, Wichita, 55; fel, Illinois, 55-58, M.S, 58, Ph.D.(bus), 62. Asst. prof. ADMIN, COL. BUS. ADMIN, WICHITA STATE, 58-62, assoc. prof, 62-66, PROF, 66-, ASST. DEAN COL. BUS. ADMIN, 64-, head. dept. admin, 64-66. Econ. Asn; Mkt. Asn. Managerial marketing; consumer behavior; marketing research methodology. Publ: Co-auth, Population, income and sales, Center Bus. Mgt. Serv, Wichita State, 11/62; Manpower developments in Wichita, Kansas, Kans. Dept. Labor & U.S. Dept. Labor, 1/63; auth, Wichita from a marketing point of view, Bus. J, Wichita State, 2/63. Address: College of Business Administration, Wichita State University, Wichita, Kans. 67208.

CHRISTENSON, PROF. REO M, b. Dodge Center, Minn, June 5, 18; m. 44; c. 2. GOVERNMENT, PUBLIC POLICY. A.B, Redlands, 48; M.A, Michigan, 50, Ph.D, 53. Ed. writer, Toledo Blade, 53-56; asst. prof. GOVT, MIAMI (OHIO), 56-60, assoc. prof, 60-63, PROF, 63- U.S.A, 41-46. Agricultural and public policy. Publ: Co-ed, Voice of the people: readings in public opinion and propaganda; Brannan Plan: a study in farm politics and policy; auth, Challenge and decision: political issues of our time, Harper, 64. Address: Dept. of Government, Miami University, Oxford, Ohio 45056.

CHRISTENSON, DR. RONALD S(IDNEY), b. Chippewa Falls, Wis, July 10, 37; m. 60; c. 1. POLITICAL SCIENCE. B.S, Wis. State, Eau Claire, 59; Woodrow Wilson fel, Minnesota, 59-60, M.A, 61, univ. fel, 63-64, Ph.D.(polit. sci), 65. ASST. PROF. POLIT. SCI, LUTHER COL.(IOWA), 64- Polit. Sci. Asn. Political theory. Publ: Machaivelli's politics: the cynicism of civic religion, In: Introduction to the Renaissance, Luther Press, 67; The political theory of persecution: Augustine and Hobbes, Midwest J. Polit. Sci, 8/68. Address: Dept. of Political Science, Luther College, Decorah, Iowa 52101.

CHRISTIAN, PROF. VIRGIL LANGDON, JR, b. Stanford, Ky, Sept. 9, 22. ECONOMICS, STATISTICS. B.S, Kentucky, 47, M.S, 49, Ph.D, 55. Res. assoc. pub. finance,.bur. bus. res, KENTUCKY, 55-56, ASSOC. PROF. ECON, 57- Consult, div. planning, State Dept. Hwys, Ky, 56-59, res. analyst, data processing center, 59- U.S.A.F, 42-46, Res, 46-, 1st Lt. Statist. Asn. Problems in highway user taxation, particularly with respect to equitable allocation of tax responsibility among classes of motor vehicles. Publ: Methodology of Kentucky incremental analysis, Proc. Hwy. Res. Bd; Incidence of compacts and their effect on motor fuels consumption, Nat. Tax J; Induction, sampling and statistical inference, In: Modern functional logic. Address: 1403 Fontaine Rd, Lexington, Ky. 40502.

CHRISTIAN, W(ILLIAM) E(DWIN), JR, b. Quitman, Miss, June 30, 20. AGRICULTURAL ECONOMICS. B.S, Miss. State Col, 42; M.S, Iowa State Col, 47; Chicago, 47-48. Acting instr, Iowa State Col, 47; asst, Chicago, 47-49; assoc. prof. agr. econ, Miss. State Col, 49-55; agr. economist, for. agr. serv, U.S. Dept. Agr, 55-56; economist, UNCLE BEN'S, INC, 56-63, dir. planning, 63-65, COMMERCIAL DIR, 65- U.S.N.R, 42-46, Lt. Econ. Asn; Agr. Econ. Asn; Mkt. Asn. Marketing or poultry and livestock products; Mississippi seed industry and farm research; problems of livestock production and marketing in the south. Address: 5010 Willow Bend, Houston, Tex. 77035.

CHRISTIANSEN, PROF. JOHN R(EES), b. Wales, Utah, Aug. 17, 27; m. 51; c. 5. SOCIOLOGY. B.S, Utah State, 49, M.S, 52; fel, Wisconsin, 53-54, Ph.D.(sociol), 55. Asst. rural sociologist, Kentucky, 54-55; soc. sci. analyst, farm pop. & rural life br, agr. mkt. serv, U.S. Dept. Agr, 55-57; assoc. prof. SOCIOL, BRIGHAM YOUNG, 57-64, PROF, 64-, CHMN. DEPT, 66- Lectr, Kentucky, 56-57. Consult, Teamwork Assocs, D.C, 67- U.S.N.R, 45-47. Fel. Sociol. Asn; Rural Sociol. Soc; Nat. Coun. Family Rels. Social psychology; rural sociology; family. Publ: Introductory sociology; Industrialization and rural life in two central Utah counties, Utah Agr. Exp. Sta. Bull; Behavioral correlates of membership in rural neighborhoods, Rural Sociol. Address: Dept. of Sociology, Brigham Young University, Provo, Utah 84601.

CHRISTIANSEN, DR. NEILS B(ERNARD), b. San Diego, Calif, Nov. 14, 33. FOREST ECONOMICS. B.S, Idaho, 57; M.S, State Univ. N.Y, 59, Ph.D. (forest econ), 66. Res. forester, U.S. Forest Serv, 58-60; instr. FOREST ECON, STATE UNIV. N.Y. COL. FORESTRY, SYRACUSE, 60-64, ASST. PROF, 64- Soc. Am. Foresters. Decision making in forest management; operations research; systems analysis. Address: Dept. of Forestry, State University of New York College of Forestry, Syracuse University, Syracuse, N.Y. 13210.

CHRISTIE, PROF. RICHARD, b. Perdue, Sask, July 8, 18; U.S. citizen; m. 49; c. 4. SOCIAL PSYCHOLOGY. B.A, Tulsa, 42; M.A, Nebraska, 47; Ph.D. (psychol), California, Berkeley, 49. Mem. faculty psychol, Sarah Lawrence Col, 49-50; asst. prof. PSYCHOL, N.Y. Univ, 50-53, assoc. prof, 53-56; adj. prof, COLUMBIA, 56-60, PROF, 60- Fel, Center Adv. Study Behav. Sci, 54-55. U.S.A.A.F, 42-45. AAAS; Psychol. Asn; Sociol. Asn; Statist. Asn. Personality and ideology; interrelationships of social and psychological variables; research methodology and training. Publ: Co-ed, Studies in the scope and method of the authoritarian personality; auth, An experimental study of modifications in factors influencing recruits' adjustment to the army; Studies in Machiavellianism, Academic, 68. Address: 605 Mathematics Hall, Columbia University, New York, N.Y. 10027.

CHRISTIE, DR. ROBERTA, b. Chicago, Ill, May 19, 15. PSYCHOLOGY. B.A, Mundelein Col, 37; M.A, Columbia, 46, Daughters of Cincinnati fel, 45-48, Dodge fel, 46-48, Sturtevant fel, 47-48, Ed.D.(student personnel), 48. Dist. dir, Girl Scouts, Minn, 37-41, asst. prog. dir, N.Y, 41-42; club dir, Am. Red Cross, 42-44; adult group work secy, YWCA, Ill, 45; asst. guid, teachers col, Columbia, 46-48; group work consult, New York Youth Bd, 48-49; instr. ed, Brooklyn Col, 49; assoc. prof. psychol, Stephens Col, 49-51; Sacramento State Col, 51-54, prof, 54-60, assoc. dean students, 51-60; ASSOC. PROF. psychol, Mt. St. Marys Col.(Calif), 61-62; ED, GRAD. SCH, LOYOLA (ILL), 62- Mem, Int. Cmn. Relig. Psychol, Belgium, 62. Alumna award, Mundelein Col, 62. Psychol. Asn; Col. Personnel Asn; Nat. Asn. Women Deans & Counsr; Asn. Higher Ed; Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv; Asn. Measurement & Eval. Guid; Nat. Voc. Guid. Asn. Counseling psychology; social psychology, especially leadership phenomena and development of attitudes. Publ: College attrition studies: a critique, Ill. Guid. & Personnel Quart, spring 68. Address: Dept. of Education, Loyola University, 820 N. Michigan Ave, Chicago, Ill. 60611.

CHRISTMAN, PROF. LUTHER PARMALEE, b. Summit Hill, Pa, Feb. 26, 15; m. 39; c. 3. SOCIOLOGY. B.S, Temple, 48, Ed.M, 52; Nat. League Nursing fel, Mich. State, 59-60, Ph.D.(sociol), 65. Instr. nursing, Cooper Hosp, Camden, N.J, 48-53; dir. nursing, Yankton State Hosp, S.Dak, 53-56; nursing consult, Mich. Dept. Ment. Health, 56-63; assoc. prof. nursing, Michigan, 63-67, res. assoc, inst. soc. res, 64-67, bur. hosp. admin, 66-67; PROF. SOCIOL. & DEAN NURSING, VANDERBILT, 67- Consult, community serv. & res. br, Nat. Inst. Ment. Health, 63-66; South. Regional Ed. Bd, 64-67. AAAS; Sociol. Asn; Soc. Gen. Systs. Res. Nursing; social structure around patient care; effective models for delivering care to patients. Publ: Nurse-physician communications in the hospital, J. Am. Med. Asn, 11/65; Would a stewardess help?, Saturday Rev, 2/67; Barrier's to diffusion and use of new knowledge in nursing, In: Current concepts in clinical nursing, Mosby, 67. Address: School of Nursing, Vanderbilt University, Nashville, Tenn. 37203.

CHRISTMAN, DR. R(AYMOND) J(OHN), b. Ohio, May 6, 19; m. 43; c. 5. PSYCHOLOGY, HUMAN ENGINEERING. B.A, Ohio State, 47, M.A, 48, Ph.D. (exp. psychol), 52. Instr. psychol, West Virginia, 50-52; res. psychologist, Rome Air Develop. Center, Griffiss Air Force Base, N.Y, 52-68; ASSOC. PROF. PSYCHOL, UTICA COL, 68- U.S.A, 44-46. Equipment design for human engineering; field theory, figural-after-effect. Publ: Figural after-effect utilizing apparent movement as inspection-figure & Shifts in pitch as a function of prolonged stimulation with pure tones, Am. J. Psychol; Influence of binaural temporal and amplitude differences on the determination of apparent direction, Rome Air Develop. Tech. Note. Address: Marcy, N.Y. 13403.

CHRISTNER, DR. CHARLOTTE A(NN), b. Akron, Ohio, Aug. 9, 27. EXPERIMENTAL PSYCHOLOGY. B.A, Miami (Ohio), 49; M.A, Ohio State, 51, fel, 51-52, Ph.D, 57. Statist. asst. psychol, Miami (Ohio), 49-50; asst, Ohio State, 50-51, 55-56, res. assoc, personnel res. bd, 53-54; prin. psychologist, Battelle Mem. Inst, 56-58, proj. leader, 58-60, asst. div. consult. human factors, 60-65; assoc. prof. PSYCHOL, WIS. STATE, WHITEWATER, 65-67, PROF. & CHMN. DEPT, 67- Psychol. Asn. Applied psychology of perception; human problem solving; data processing capabilities, individually and in small groups. Publ: Co-auth, Development of design criteria for intelligence display formats; Evaluation of the effect of selected combinations of target and background coding on map-reading performance, Human Factors; Effects of various levels of automation on human operators' performance in man-machine systems. Address: Dept. of Psychology, Wisconsin State University at Whitewater, Whitewater, Wis. 53190.

CHRISTOL, PROF. CARL QUIMBY, b. Gallup, S.Dak, June 28, 14; m. 49; c. 2. INTERNATIONAL LAW, POLITICAL SCIENCE. A.B, South Dakota, 34; A.M, Fletcher Sch. Law, 36; cert, Geneva, 38; Ph.D.(polit. sci), Chicago, 41; LL.B, Yale, 47. Attorney, Guthrie, Darling & Shattuck, Calif, assoc. counsr, 48-49; vis. assoc. prof. polit. sci, SOUTHERN CALIFORNIA, 49-50, assoc. prof, 50-59, PROF. INT. LAW & POLIT. SCI, 59-, chmn dept. polit. sci, 60-64. Rockefeller Found. fel, 58-59; chair, int. law, U.S. Naval War Col, 62-63. Consult, World Law Fund, 65-66. Mem, Los Angeles Mayor's Adv. Cmt. Human Rels, 65, bd. dirs, UN Asn. U.S, 67. U.S.A, 41-46, Res, 46-67, Col. Soc. Int. Law; Inst. Aeronaut. & Astronaut; Polit. Sci. Asn; Bar Asn. Human rights; international law of outer space; judicial process; jurisprudence. Publ: Readings in international law, an introduction to international legal studies, Univ. Southern California, 59; The international law of outer space, Govt. Printing Off, 66; co-auth, Introduction to political science, McGraw, 2nd ed, 67. Address: Dept. of Political Science, University of Southern California, University Park, Los Angeles, Calif. 90007.

CHRISTOPH, PROF. JAMES BERNARD, b. Waukesha, Wis, Aug. 17, 28; m. 55; c. 5. POLITICAL SCIENCE. B.A, Wisconsin, 50; fel, Harvard, 50-51; M.A, Minnesota, 52, Ph.D.(polit. sci), 56; Fulbright fel, Gt. Brit, 53-54. Instr. polit. sci, Ohio State, 55-58, asst. prof, 58-62, asst. dean col. arts & sci, 59-61, assoc. prof. polit. sci, 62-66, prof, 66-67; PROF. GOVT. & CHMN. DEPT, INDIANA, 67- Fel, Gt. Brit, 57-58; Soc. Sci. Res. Coun. fel, Gt. Brit, 62-63; Fulbright-Hays teaching award, Bologna Center, Hopkins, 66-67. Polit. Sci. Asn.(Pi Sigma Alpha award, 65). Comparative government; political parties; behavioral sciences. Publ: Capital punishment and British politics, Univ. Chicago, 62; co-auth, Cases in comparative politics, Little, 65; Britain at the crossroads, For. Policy Asn, 67. Address: Dept. of Government, 253 Woodburn Hall, Indiana University, Bloomington, Ind. 47401.

CHRISTOPHE, DR. CLEVELAND ALRIDGE, b. Newport, Ark, Mar. 21, 11; m. 42; c. 2. ECONOMICS. B.S, Agr. Mech. & Nor. Col, Ark, 35; M.S, Atlanta, 40; summer, Northwestern, 40; Omaha, 53; Harvard; M.Ed, Arkansas, 57; Ph.D.(econ, mkt), S.Dak. State Col, 60. Instr. biol, Cent. City Col. New York, 35-38; worker, J.B. Blayton & Co, 38-41; instr. acct. & mgr. col. coop. store, Ga. State Col, 41-44; bus. mgr, mgr. coop. store & br. U.S. Post Off, Jackson Col, 44-46; bus. mgr, Agr, Mech. & Nor. Col, Ark, 46-57; instr. acct. & asst. econ, S.Dak. State Col, 57-60; instr. econ, Savannah State Col, 60-65; prof. econ. & bus. admin, Ala. Agr. & Mech. Col, 65-67; PROF. ECON. & CONSULT, ECON. DEVELOP. CENTER, ATLANTA, 67- Agr. Econ. Asn. Effect of taxes on consumer as price takers; cost of producting powder or dry milk. Publ: Be kind to blue collar workers, Col.

& Univ. Bus. Address: Dept. of Economics, Atlanta University School of Business Administration, Atlanta, Ga. 30314.

CHRISTOPHER, DR. STEFAN C(HAPMAN), b. Olympia, Wash, Feb. 28, 37; m. 60; c. 3. SOCIOLOGY. M.S.S, Inst. Soc. Studies, The Hague, 60; B.A, Washington (Seattle), 61, Ph.D.(sociol), 66. ASST. PROF. SOCIOL, SEATTLE, 66- Sociol. Asn. Social psychology of consensus; sociology of religion. Publ: Cross-cultural education, Hosali, 59; A note on research relevant to the extended family and geographical mobility, 3/65 & In memoriam George A. Lundberg, 3/67, Int. J. Comp. Sociol. Address: Dept. of Sociology, Seattle University, Box 38, Seattle, Wash. 98122.

CHRISTOPHERSON, PROF. VICTOR A(LDEN), b. Salt Lake City, Utah, May 12, 23; m. 44; c. 3. SOCIOLOGY, CHILD PSYCHOLOGY. B.S, Columbia, 49, M.A, 50, Ed.D, 53. Asst. prof. CHILD DEVELOP. & FAMILY RELS, Okla. Agr. & Mech. Col, 51-54; Connecticut, 54-56, assoc. prof. & head dept, 56-58; PROF. & CHMN. DIV, ARIZONA, 58- Vis. prof. & voc. rehab. fel, Univ. Hawaii, 66-67. U.S.A, 42-46. Sociol. Asn; Psychol. Asn. Socialization and culture; rehabilitation of physically handicapped, particularly role modifications. Publ: The married college student, 1959, Marriage & Family Living; Role modifications of the handicapped homemaker, Rehab. Lit; Readings in comparative marriage and the family, Selected Acad. Readings, 9/67. Address: 5733 Camino Miraval, Tucson, Ariz. 85718.

CHRUDEN, PROF. HERBERT J, b. Roswell, N.Mex, Oct. 3, 18; m. 44; c. 1. MANAGEMENT & BEHAVIORAL SCIENCE. A.B, San Diego State Col, 40; M.B.A, Stanford, 47, Ed.D.(admin), 49. Asst. prof. mkt, North Texas State, 49-50, assoc. prof. personnel, 50-52; asst. prof. MGT, SACRAMENTO STATE COL, 52-56, assoc. prof, 56-61, PROF, 61-, chmn. div. bus. admin, 62-64. Consult, Air Materiel Force, European Theater, 61. U.S.N.R, 41-46, Comdr. Arbit. Asn; Acad. Mgt. Personnel management; international personnel relations. Publ: Administracion de personal, Compania Editorial Sontinenal, S.A, 65; Readings in personnel management, 2nd ed, 66 & Personnel management, 3rd ed, 68, South-Western Pub. Address: School of Business, Sacramento State College, 6000 J St, Sacramento, Calif. 95825.

CHRYPINSKI, PROF. VINCENT C(ASMERE), b. Chelm, Poland, Mar. 31, 12; nat; m. 50; c. 4. POLITICAL SCIENCE. LL.M, Catholic Univ. Lublin, Poland, 39; M.A, Wayne State, 53; Ph.D, Michigan, 58. Lectr, POLIT. SCI, WINDSOR, 57-58, asst. prof, 58-60, assoc. prof, 60-66, PROF, 66- Can. Coun. res. grant, 62. AAAS; Am. Polit. Sci. Asn; Can. Polit. Sci. Asn; Can. Asn. Slavists. Comparative government; political theory. Publ: Co-auth, Slavs in Canada, Inter-Univ. Coun. Can. Slavs, 66; auth, Poland's parliamentary committees, E. Europe, 1/65; Legislative committees in Polish law making, Slavic Rev, 6/66. Address: Dept. of Political Science, University of Windsor, Windsor, Ont, Can.

CHRYSLER, PROF. R(USSELL) L(OREN), b. Duluth, Minn, Oct. 21, 08. BUSINESS ADMINISTRATION, MARKETING. B.B.A, Minnesota, 32, A.M, 37; Ph.D, Northwestern, 53. Instr, N.Dak. State Col, 37-39; asst. prof, Cincinnati, 40-50; PROF. bus. admin, Los Angeles State Col, 50-59, MKT, IDAHO, 59- Econ. Asn; Mkt. Asn. Salesmen's territories. Address: College of Business Administration, University of Idaho, Moscow, Idaho 83843.

CHU, PROF. FINLEY M, Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

CHU, DR. GODWIN C, b. China, Oct. 18, 27; m. 52; c. 3. SOCIOLOGY. B.A, Taiwan, 51; M.A, Stanford, 60, Ph.D.(commun), 63. Asst. prof. journalism, Nat. Chengchi Univ, 60-61, assoc. prof, 63-65; asst. prof. commun, Stanford, 65-68; ASSOC. PROF. SOCIOL, VICTORIA (B.C), 68- Fel, Stanford, 63-65. Asn. Ed. in Journalism. Cross-cultural communication; the role of mass communication in cultural change. Publ: Culture, personality, and persuasibility, Sociometry, 6/66; Student expatriation: a function of relative social support, Sociol. & Soc. Res, 1/68; Impact of mass media on a gemeinschaft-like social structure, Rural Sociol, 6/68. Address: Dept. of Anthropology & Sociology, University of Victoria, Victoria, B.C, Can.

CHU, DR. SAMUEL C, East Asian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CHU, WILLIAM P(AO-CHEN), b. Hwanghsein, China, June 10, 10; nat; m. 38; c. 2. ECONOMICS. B.S, Tsing Hua, China, 33; M.B.A, Pennsylvania, 37; M.P.H, Michigan, 63. Assoc. prof. econ, Nanking, 37-38; bus. mgr, Hsinhua Trading Co, 38-42; asst. dir. admin. & res, Bur. Indust. & Mining Adjustment, 42-46; STATISTICIAN, Phila. Dept. Health, 57-60; BIO-MED. RES, State Dept. Health 60-65; biostatistician heart disease control prog, U.S. Pub. Health Serv, 65-66; STATIST. CONSULT, BUR. DISABILITY INS, SOC. SECURITY ADMIN, 66- Statist. Asn; Biomet Soc. Statistical techniques used in medical diagnoses. Address: 2118 Annex, Social Security Bldg, Woodlawn, Md. 21235.

CHUANG, DR. YAO HUANG, b. Taiwan, Nov. 28, 31; nat; m. 61. ECONOMETRICS, AGRICULTURAL ECONOMICS. B.S, Taiwan, 55; Booth fel, Illinois, 56, M.S, 57, Ph.D, 61. Asst. agr. econ, Illinois, 57-61; economist, comput. center, Tenn. Valley Authority, 61-64; systs. develop. engr, DOW CHEM. CO, 64-65, sr. systs. develop. engr, 66, ASST. TO MGR. SYSTS. DEVELOP-MGT. SCI, 66- Summer fels, agr. res. & develop. center, Chas. Pfizer & Co, Ind, 56-57. Mem, South. Regional Grain Mkt. Res. Tech. Cmt. & South. Regional Livestock Mkt. Res. Tech. Cmt, 63-64. Inst. Mgt. Sci; Statist. Asn; Mkt. Asn. Management science; systems development-management science in manufacturing, marketing, advertising and distribution; statistics; computer applications; forecasting; commodity analyses; economic development. Publ: Co-auth, More than ever, the flow of feed grains changes, Livestock Breeder, 2/62; auth, Estimation of sector & spatial price equilibrium models of the U.S. feed economy, Agr. Exp. Sta, Univ. Illinois, 2/64; co-auth, A dynamic programming model for combined production, distribution & storage, J. Indust. Eng, 1/66. Address: Dow Chemical Co, Systems Development Dept, 256 Bldg, Midland, Mich. 48640.

CHUBB, PROF. H(ERMAN) B(LANEY), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

CHUDSON, PROF. WALTER A(LEXANDER), b. Philadelphia, Pa, June 9, 14; m. 41; c. 2. ECONOMICS. B.A, Pennsylvania, 34; Rhodes scholar, Oxford, 34-37, B.A, 36; univ. fel, Columbia, 37-38, Ph.D.(econ), 42. Economist, Bd. Econ. Warfare, 43-44; U.S. Dept. State, 44; UNRRA, 44-46; sr. econ. affairs officer, UN Secretariat, 46-64, asst. dir. econ, UN Indust. Develop. Orgn, 64-67; PROF. INT. BUS, GRAD. SCH. BUS, COLUMBIA, 67- Vis. lectr, law sch, Yale, 54-55; adj. prof, Columbia, 61-64; summer vis. prof, Oregon, 61. Am. Econ. Asn; fel. African Studies Asn. International economics and investment; economic development of Africa; industrial development of less developed countries; transfer of technology to developing countries. Publ: Co-auth, The economic development of Tanganyika; Economic development in Africa, Blackwell, Oxford, 65; auth, The pattern of corporate financial structure. Address: 11 Pryer Lane, Larchmont, N.Y. 10538.

CHUMLEA, DR. WESLEY SISSON, b. Ft. Worth, Tex, Oct. 15, 27. POLITICAL SCIENCE. B.A, Texas, 49, M.A, 51, fel, 52-55, Ph.D, 59. Instr. GOVT, W.Tex. State Teachers Col, 51-52; Agr. & Mech. Col, Tex, 56-59, asst. prof, 59-60; from asst. prof. to ASSOC. PROF, SAM HOUSTON STATE COL, 60- Polit. Sci. Asn. American national government, especially political parties and elections; state and local government; international politics. Address: Dept. of Government, Sam Houston State College, Huntsville, Tex. 77341.

CHUNG, PROF. A(N) M(IN), b. Tientsin, China, Nov. 24, 21; m. 50; c. 2. MANAGEMENT SCIENCE: OPERATIONS RESEARCH. B.S, Nat. Southwest Assoc. Univ, China, 43; M.B.A, Pennsylvania, 49, Ph.D.(econ. theory), 53. Instr. econ, Haverford Col, 50-51; DREXEL INST. TECH, 51-54, asst. prof, 54-57, assoc. prof, 57-59, prof, 60-64, PROF. MGT. & OPERS. RES. & HEAD DEPT, 64- Vis. asst. prof, Carnegie Inst. Tech, 56-57. Consult, Coun. Econ. & Indust. Res, Inc, 55-56. Econ. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Economic development. Publ: Linear programming, C.E. Merrill, 63. Address: Dept. of Management & Operations Research, Drexel Institute of Technology, 32nd & Chestnut St, Philadelphia, Pa. 19104.

CHUNG, DR. PHAM, b. Hue, Viet Nam, June 8, 34; m. 61; c. 2. ECONOMICS. B.A, Saigon, 58; M.A, Pennsylvania, 60, Ph.D.(econ), 62. Asst. prof. ECON, NEW MEXICO, 63-68, ASSOC. PROF, 68- Econ. Asn. Monetary theory and banking. Address: Dept. of Economics, University of New Mexico, Albuquerque, N.Mex. 87106.

CHURCH, DR. DONALD E(ISENBREY), b. Reno, Nev, Feb. 25, 04; m. 29; c. 1. ECONOMICS, STATISTICS. A.B, Nevada, 26; Columbia, 27-28; M.A, California, 29; Ph.D.(econ), Michigan, 36. Asst. cmnr. labor, Nev, 26-27; bus. analyst, Metrop. Life Ins, 29-34; Univ. Michigan fel, Brookings Inst, 36-37; prof. bus. statist, Ohio, 37-41; economist transportation, U.S. Commerce Dept, 41; div. chief, off. civilian supply, War Prod. Bd, 41-42; br. chief hwy. transportation res, Army Transportation Corps, 42-44; mkt. res, processed food rationing, Off. Price Admin, 44-46, sugar rationing admin, 46-47; DIV. CHIEF TRANSPORTATION, bur. agr. econ, U.S. Dept. Agr, 47-51; BUR. CENSUS, 51- Dir, First Censuses of Transportation, in U.S, 63 & 67. Consult, Asn. Develop. & Res. Corp, 47; U.S. Post Off. Dept, 47. Chmn. freight transportation econ. cmt, Hwy. Res. Bd, 53- Award of Merit, Nat. Asn. Travel Orgn, 58; Silver Medal Award, U.S. Dept. Commerce, 65. Transportation Res. Forum; Statist. Asn. Developing techniques for improving travel and commodity flow surveys and applications to marketing problems. Address: Transportation Division, Room 1057, Bldg. 4, Bureau of the Census, Washington, D.C. 20233.

CHURCH, DR. JAY K(AY), b. Wichita, Kans, Jan. 18, 27; m. 49; c. 4. PSYCHOLOGY, EDUCATION. B.A, David Lipscomb Col, 48; M.A, Ball State, 61; Ph.D.(counseling, guid), Purdue, 64. Teacher, high sch, Ind, 55, counsr, 61-62, teacher & guid. dir, Hamilton Community Schs, 55-61; asst. prof. ed. & psychol. & counseling psychologist, BALL STATE, 63-67, ASSOC. PROF. PSYCHOL, 67-, ADMIN. ASST. TO HEAD PSYCHOL. DEPT, 67-, admin. asst. to dir. counseling & psychol. serv. center, 66-67. Psychol. Asn; Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv. Measurement; counseling and developmental psychology. Publ: Co-auth, Junior high school guidance: an inservice approach, Interstate, 65. Address: 2402 W. Purdue Ave, Muncie, Ind. 47304.

CHURCH, PROF. JOSEPH, b. Gardner, Mass, July 10, 18; m. 47; c. 2. PSYCHOLOGY. Ph.D.(psychol), Clark, 54. Instr. child study, Vassar Col, 54-56, asst. prof, 56-58, assoc. prof, 58-62, PROF, 62-65; PSYCHOL, BROOKLYN COL, 65- Lectr, New Sch. Soc. Res, 56-58; Vassar Col. faculty fel, 63-64; vis. prof, Hawaii, 65-66; summer vis. investr, Jackson Lab, 61. U.S.A, 42-45. AAAS; Psychol. Asn; Soc. Res. Child Develop. Language behavior; cognitive development; body imagery. Publ: Co-auth, Language and the discovery of reality; ed, Three babies, 66 & co-auth, Childhood and adolescence, 68, Random. Address: Dept. of Psychology, Brooklyn College, Brooklyn, N.Y. 11210.

CHURCH, DEAN MARTHA E(LEANOR), b. Pittsburgh, Pa, Nov. 17, 30. GEOGRAPHY. B.A, Wellesley Col, 52; M.A, Pittsburgh, 54; Soc. Woman Geogr. fel, Chicago, 57-58, Am. Asn. Univ. Women fel, 59-60, Ph.D.(geog), 60. Lectr. geog, Mt. Mercy Col, 53; instr. geol. & geog, Mt. Holyoke Col, 53-57; lectr. geog, Gary Center, Indiana, 58; instr, Wellesley Col, 58-59, asst. prof, 60-65; DEAN COL. & PROF. GEOG, WILSON COL, 65- Ford Found. grant pub. affairs, 61. Mem. spec. cmt. women in soc. & in church, United Presby. Church, 67- Huber Found. award, 59. AAAS; Asn. Am. Geog; fel. Nat. Coun. Geog. Ed; fel. Geog. Soc. Economic geography; utilization of electric power. Publ: Spatial organization of electric power territories in Massachusetts; co-auth, A basic geographical library: a selected and annotated book list for American colleges, Cmn. Col. Geog, Asn. Am. Geogr, Wash, D.C, 66. Address: Wilson College, Chambersburg, Pa. 17201.

CHURCH, PROF. RUSSELL M(ILLER), b. New York, N.Y, Dec. 24, 30; m. 54; c. 2. PSYCHOLOGY. B.A, Michigan, 52; M.A, Harvard, 54, Ph.D, 56. Instr. PSYCHOL, BROWN, 55-57, asst. prof, 57-60, assoc. prof, 60-65, PROF, 65- Fel. Psychol. Asn. Punishment and aversive behavior of animals. Publ: The varied effects of punishment on behavior, Psychol. Rev, 63; co-auth, Permanent effects of punishment during extinction, J. Comp. Physiol. Psychol, 67. Address: Hunter Lab. of Psychology, Brown University, Providence, R.I. 02912.

CHURCHILL, PROF. ARTHUR C(HESTER), Am. Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CHURCHILL, DR. GILBERT ALLEN, JR, b. Evanston, Ill, June 2, 38; m. 60; c. 4. MARKETING. B.S, Purdue, 60; M.B.A, Indiana, 62, U.S. Steel Found. fel, 63-65, Ford Found. fel, 65-66, D.B.A.(mkt), 66. ASST. PROF. MKT, WISCONSIN, 66- Summer res. fel, inst. appl. urban econ, Indiana, 66. Mkt. Asn; Econ. Asn; Statist. Asn. Diffusion and adoption research and its application to industrial marketing; location theory. Publ: Production technology, imperfect competition and the theory of location: a theoretical approach, South. Econ. J, 7/67. Address: Dept. of Business, Graduate School of Business, University of Wisconsin, Madison, Wis. 53706.

CHURCHILL, DR. LINDSEY, b. Meriden, Conn, Aug. 10, 35; m. 57; c. 2. SOCIOLOGY. B.A, Yale, 55; Ph.D.(sociol, math), Harvard, 61. Asst. prof. sociol, California, Los Angeles, 61-65; Cornell, 65-67; SOCIOLOGIST, RUSSELL SAGE FOUND, 67- Sociol. Asn; Statist. Asn. Methods in sociology. Publ: Types of formalization in small group research, Sociometry, 63; Sex differences among mildly retarded admissions to a hospital for the mentally retarded, Am. J. Ment. Deficiency, 64; Some sociological aspects of message load, In: Mathematical explorations in behavioral science, Irwin, 65. Address: Russell Sage Foundation, 230 Park Ave, New York, N.Y. 10017.

CHURCHILL, PROF. RUTH D(IETZ), b. Brooklyn, N.Y, Feb. 23, 16; m. 38; c. 1. PSYCHOLOGY. B.A, Columbia, 37; Ph.D, Minnesota, 60. Asst. psychol, Minnesota, 37-40; sr. personel technician, personnel res. sect, Adj. Gen. Off, U.S. War Dept, 40-45; asst. prof. ED. & PSYCHOL, ANTIOCH COL, 49-52, assoc. prof, 52-55, PROF, 55-, COL. EXAM, 48- Psychol. Asn. Test construction; educational measurement and evaluation. Address: Testing Office, Antioch College, Yellow Springs, Ohio 45387.

CHURCHMAN, PROF. C. WEST, b. Philadelphia, Pa, Aug. 29, 13; m. 50; c. 1. PHILOSOPHY OF SCIENCE. A.B, Pennsylvania, 35, M.A, 36, Ph.D, 38. Instr. philos, Pennsylvania, 37-42, asst. prof. & head dept, 45-48; head math. sect, Frankford Arsenal, 42-45; assoc. prof. philos, Wayne, 48-51; head opers. res. group, Case, 51-54, prof. eng. admin, 54-57; vis. prof. BUS. ADMIN, CALIFORNIA, BERKELEY, 57-58, PROF, 58-, ASSOC. DIR, SPACE SCI. LAB, 63- Ed, Mgt. Sci, Philos. Sci. & Mgt. Tech. Mem. cmt. res, Syst. Develop. Corp. AAAS; Philos. Sci. Asn; Philos. Asn; Statist. Asn; Asn. Symbolic Logic; Opers. Res. Soc; Inst. Mgt. Sci.(pres, 62). Value theory; operations research; scientific method. Publ: Prediction and optimal decision; Theory of experimental inference; co-auth, Introduction to operations research. Address: School of Business Administration, 350 Barrows Hall, University of California, Berkeley, Calif. 94720.

CHUTE, PROF. A(RON) HAMILTON, b. Toledo, Ohio, Oct. 30, 91; m. 17; c. 2. BUSINESS ADMINISTRATION. A.B, Michigan, 16; A.M, Ohio State, 31, Ph.D, 35. Self-employed, Ohio, 17-29; instr. & mkt. assoc, bur. bus. res, Ohio State, 30-36; asst. prof, Minnesota, 36-41, assoc. prof, 41-46, mkt. res. consult, Minnesota & coop. res. sta, U.S. Dept. Commerce, Minneapolis, 41-42; prof. mkt, Toledo, 46-47; prof. retailing & specialist, bur. bus. res, TEXAS, 47-64, prof. MKT, 64, EMER. PROF, 64- Head mkt. & admin. br, commerce sect, U.S. Army Univ.(France), 45-46; teacher acct, grad. sch, U.S. Dept. Agr, 45; vis. prof, Southern Methodist, 64-65; adj. prof, Fresno State Col, 66-68. Spec. training asst. to chief, War Food Admin, Wash, D.C, 43-45. Econ. Asn; Mkt. Asn. Marketing; historical trends; organizational and functional development in retailing. Publ: Marketing burned-clay products. Address: 5000 Shoal Creek Blvd, Austin, Tex. 78756.

CHUTE, DR. CHARLTON F(OSTER), b. Peru, Ind, Sept. 29, 06; m. 29; c. 2. POLITICAL SCIENCE. A.B, California, Los Angeles, 29; Ph.D, Chicago, 35. Chief finance exam, Pub. Works Admin, 35-37; acting assoc. prof. polit. sci, North Carolina, 37-38; dir. Govt. Res. Inst, Mo, 38-47; Phila. Cmt, Pa. Econ. League, 47-54; asst. dir, Inst. Pub. Admin, 54-56, dir, 56-62; PROF. PUB. ADMIN, N.Y. UNIV, 62- Dir. cmt. legis. res, State Gen. Assembly, Mo, 44-46. Consult, Phila. Charter Cmn, Pa, 49-51; Temporary State Cmn. Study Orgn. Struct. New York Govt, 53; Charter Cmn. Honolulu, 56. Polit. Sci. Asn; Govt. Res. Asn.(award, 42, 44, 54). State and local government; public administration and finance. Publ: How to get a new constitution, How to get a new city charter & New approach to the problem of government in metropolitan areas, Nat. Munic. Rev. Address: New York University, Graduate School of Public Administration, 4 Washington Square N, New York, N.Y. 10003.

CHWAST, DR. JACOB, b. U.S, Oct. 23, 15; m. 44; c. 2. PSYCHOLOGY, CRIMINOLOGY. B.S, City Col. New York, 37, M.S, 41; Ph.D, N.Y. Univ, 56. Psychologist, Brooklyn Jewish Hosp, N.Y, 46-49; juvenile aid bur, New York Police Dept, 49-51, supv. psychologist, 51-60, dir. planning & training unit, 52-58, consult. to dep. cmnr. youth prog, 58, res. & training consult, youth div, 58-60; DIR. MENT. HEALTH CONSULT. SERV, ED. ALLIANCE, INC, 60- Instr, St. Lawrence, 54; lectr, Baruch Sch. Bus. Admin, City Col. New York, 55; staff mem, Postgrad. Center Psychother, 60-; lectr, grad. sch. soc. work, N.Y, Univ, 61. Private practice, 50- Consult, Queens Hosp, Center, 65- Fel. AAAS; Psychol. Asn; Soc. Criminol.(secy-treas, 59); Soc. Group Psychother. & Psychodrama; fel. Orthopsychiat. Asn; Group Psychother. Asn; Sociol. Asn. Individual and group psychotherapy; mental health consultation; delinquency and criminology; parent-child relationships; marital counseling; social and personal processes; values and controls. Publ: Chap, Delinquency and criminality: an acting out phenomenon, In: Acting out-theoretical and clinical aspects, 65 & Chap, Principles and techniques of offender therapy, In: Current psychiatric therapies, 66, Grune; Depressive reaction as manifested among adolescent delinquents, Am. J. Psychother, 7/67. Address: 30 Fifth Ave, New York, N.Y. 10011.

CHYATTE, DR. CONRAD, Psychol, see 11th ed, Phys. & Biol. Vols. Suppl. II & IV.

CIACCIO, JACK N(ICHOLAS), b. Cincinnati, Ohio, Nov. 12, 20; m. 59; c. 3. ECONOMICS. B.A, Cincinnati, 47; M.A, Chicago, 50. Instr. elem. econ, Northwestern, 50-53; bus. economist, U.S. Dept. Commerce, 55-56; statistician, U.S. Bur. Budget, 56-59; economist, U.S. Off. Ed, 59-64; PROG. COORDINATOR, U.S. OFF. ECON. OPPORTUNITY, WASH, D.C, 64- U.S.A, 42-45. Money and banking; price and income theory; international economics. Publ: External financing of small and medium size business, Surv. Current Bus. Address: 502 E. Columbia St, Falls Church, Va. 22046.

CIARLO, DR. JAMES A(NTHONY), b. Steger, Ill, Nov. 12, 33; m. 63. PSYCHOLOGY. A.B, Illinois, 55; A.M, Washington, 59; Ph.D.(psychol), Harvard, 64. Instr. PSYCHOL, Wesleyan, 63-64, asst. prof, 64-66; LECTR, MICHIGAN, 66- U.S.A.F, 55-57, Capt. Personality; fantasy processes; social psychology. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

CICALA, PROF. GEORGE A(NTHONY), b. New York, N.Y, May 16, 35. PSYCHOLOGY. B.S, Col. William & Mary, 56, M.A, 58; Dodds fel. & U.S. Pub. Health Serv. fel, Princeton, 59, Ph.D, 60. U.S. Pub. Health Serv. res. fel, Princeton, 60, vis. lectr. PSYCHOL, 60-61; asst. prof, DELAWARE, 61-65, ASSOC. PROF, 65- Psychol. Asn. Role of motivation and ontogenetic factors in the learning process. Publ: Animal drives, Van Nostrand, 65; The effects of chlordiazepoxide on the acquisition and performance of an escape response in rats, Psychol. Record; Drugs and the learning and performance of fear, J. Comp. Physiol. Psychol. Address: Dept. of Psychology, University of Delaware, Newark, Del. 19711.

CIESLA, PROF. CASIMIR, b. Poland, Jan. 8, 19; nat; m. 60. ECONOMICS, STATISTICS. Dipl, Innsbruck, 47, Dr. rer. pol, 48. Statistician, Int. Refugee Orgn, 48-49; instr. ECON. & STATIST, LA SALLE COL, 50-52, asst. prof, 52-57, assoc. prof, 57-65, PROF, 65- Econ. in Action fel, 55; Ford Found. faculty res. fel, 61. Polish Army. Am. Econ. Asn; Polish Inst. in Am. Economic growth, productivity measurement and technological change. Address: 314 Twining Rd, Oreland, Pa. 19075.

CIEUTAT, DR. VICTOR J(OSEPH), b. New Orleans, La, Nov. 30, 32; m. 57; c. 4. PSYCHOLOGY. B.A, Tulane, 54; M.A, La. State, 57, Ph.D, 60. Clin. psychologist, Forest Glen Ment. Health Treatment Center, 60-61; asst. prof. psychol, La. State, New Orleans, 61-64, assoc. prof, 64-66; SR. RES. SCIENTIST, INT. DIV, AM. INSTS. RES, 66- AAAS; Psychol. Asn; Psychonom. Soc. Publ: Co-auth, Traditional logic and the Venn diagram: a programmed introduction, Chandler Pub, (in press); auth, Group paired-associate learning: a safeguard against E-bias, J. Verbal Learning & Verbal Behav, 67; co-auth, Examiner differences among items on the Stanford-Binet, Psychol. Reports, 67. Address: International Division, American Institutes for Research, 135 N. Bellefield Ave, Pittsburgh, Pa. 15213.

CIKLIC, PETER, b. Croatia, Yugoslavia, Feb. 25, 11; nat. PSYCHOLOGY. B.A, Sibenik Col, 31; S.T.L, Zagreb, 36; M.A, Gregorian Univ, 40, Ph.D. (philos), 41. Asst. prof. philos. & psychol, Zagreb, 42-45; Mayor Sem, Cordoba, Argentina, 47; prof. philos. of relig, Cordoba Univ, 48; lectr, Buenos Aires, 49; PSYCHOL, LOYOLA (CALIF), 51-56, assoc. prof, 56-59, PROF, 59- Fel, Vienna, 41-45. Psychology of personality and motivation. Publ: The pure intellectual participation in man; Characterology; Man and his personality. Address: 7101 W. 80th St, Los Angeles, Calif. 90045.

CINQUEMANI, DOROTHY KYTE, b. Plainfield, N.J, Dec. 17, 19; m. 54; c. 1. ANTHROPOLOGY. B.A, New Mexico, 41; fel, Columbia, 48-49; Doherty Found. res. grant, Princeton, 50. LECTR. ANTHROP, AM. MUS. NATURAL HIST, 55- Lectr, New Sch. Soc. Res, 56-60; instr, Rutgers, 66-67; N.Y. Univ, 66- Anthrop. Asn; Archaeol. Inst. Am.(gen. secy, 68-). Mexican social anthropology, archaeology and history; culture and personality; child development; documentary film of Mexican Indian agricultural family life; Mexican maize. Address: 136 W. 16th St, New York, N.Y. 10011.

CIOCCO, DR. A(NTONIO), Biostatist, see 11th ed, Phys. & Biol. Vols.

CIRIACY-WANTHRUP, PROF. S(IEGFRIED) V(ON), b. Langenberg, Germany, Jan. 15, 06. AGRICULTURAL ECONOMICS. M.S, Illinois, 30; Dr. Agr, Bonn, 31. Lectr, Bonn, 32-36; asst. prof. AGR. ECON, CALIFORNIA, BERKELEY, 38-39, assoc. prof, 39-46, PROF, 46- Rockefeller fel, 35, 37; Guggenheim Mem. Found. award, 47, 52; mem, Inst. Adv. Studies, 48; vis. prof, Int. Univ. Luxembourg, 59; Univ. North Carolina, 65. Consult, U.S. Dept. Agr, 59-; German & Austrian Govt, 59-; Brit. Nature Conserv, 64-65. Mem, Governor's Adv. Cmn. Ocean Resources, 67- Fel. AAAS; Econ. Asn; Farm Econ. Asn. Economic fluctuations; economic policies in natural resources; water development. Publ: Optimum size of farms; Agricultural depressions and periods of industrial stagnation; Resource conservation, economics, and policies. Address: 207 Giannini Hall, University of California, Berkeley, Calif. 94720.

CIRILLO, DR. LEONARD, b. New York, N.Y, July 30, 36; m. 61; c. 2. CLINICAL PSYCHOLOGY. B.A, City Col. New York, 58; M.A, Clark, 61, Ph.D. (psychol), 65. ASST. PROF. PSYCHOL, Denver, 63-66; FERKAUF GRAD. SCH. HUMANITIES & SOC. SCI, YESHIVA, 66- Res. assoc, Heinz Werner Inst. Develop. Psychol, Clark, 67- Consult, Tri-County Dist. Court, Englewood, Colo, 65-66; Vet. Admin, 67- Cognitive development; child and adult clinical psychology. Address: Ferkauf Graduate School of Humanities & Social Science, Yeshiva University, 55 Fifth Ave, New York, N.Y. 10003.

CIRILLO, DR. R(ENATO) P, b. Floriana, Malta, July 20, 20. ECONOMICS. B.A, Royal Univ. Malta, 43, D.D, 46; cand. polit. sci, Louvain, 48; M.Sc, London, 52. Lectr. econ, Royal Univ. Malta, 52-53; res. officer statist, Cent. Off. Statist, Malta, 54-55, prof. ECON. & chmn. dept, 55-65; asst. prof, Catholic Univ, 65-66; ASSOC. PROF, ALBERTA, 66- Brit. Coun. bursary, 58. Mem, Nat. Employ. Bd, Malta, 57-62; judge, Malta Arbit. Tribunal, 57-65; mem. working cmt, Mediterranean Soc. Sci. Coun, 64-65. Econ. Asn. Population problems; agriculture; immigration; tourism; wage determination and collective bargaining in both developed and underdeveloped countries, history of economic thought. Publ: Co-auth. & ed, Opinioni di Cattolici su problemi economici, Edizioni Cinque Lune, Rome, Italy, 57; auth, Pareto's contribution to utility theory, J. Faculty Arts, Royal Univ. Malta, Vol. II, No. 2; Capitalism, private property and freedom, Rev. Soc. Econ, 9/66. Address: Dept. of Economics, University of Alberta, Edmonton, Alta, Can.

CISIN, DR. IRA H(UBERT), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CISNEY, DR. HARLAND N(EIL), b. Madelia, Minn, Nov. 28, 10; m. 36; c. 4. PSYCHOLOGY. B.A, Minnesota, 33; M.A, 35; Ph.D.(psychol), Michigan, 44. Rehab. dir, Va. Tuberc. Asn, 37-38; voc. counsr, Flint Guid. Center, Mich, 38-43; supvr. aptitude testing, A.C. Spark Plug, 43-45; indust. consult, Voc. Counseling Serv, New Haven, Conn, 45-47; dir, Voc. Counseling Center, Racine, Wis, 47-48; asst. prof, bur. indust. psychol, exten, Wisconsin, 48-50; employee counsr, S.C. JOHNSON & SON, INC, 50-51, PERSONNEL DIR, 51- Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Psychol. Asn. Vocational counseling and aptitude testing; employee morale and opinion; management appraisal and development. Publ: Vision testing in an automotive accessories industry, Trans. Am. Acad. Ophthal. & Otolaryngol; Stability of the vocational-interest profiles of high school students over a two-year period, Papers Mich. Acad. Sci, Arts & Letters. Address: 601 Kentucky St, Racine, Wis. 53405.

CISSELL, PROF. ROBERT, b. Indianapolis, Ind, July 13, 13, m. 38; c. 5. ECONOMICS. B.S, Purdue, 36; M.S, Xavier (Ohio), 52. Engr, Gen. Elec. Co, 36-41; ASSOC. PROF. MATH. ECON, XAVIER (OHIO), 45- Consult, U.S. Pub. Health Serv, 67. U.S.A, 41-45, Maj. Economet. Soc; Math. Soc. Development of better text material for mathematical economics and personal and family finance. Publ: Co-auth, Stretching the family income, F.O. Wagner, 53; Mathematics for business and economics, 62 & Mathematics of finance, 68, Houghton. Address: Dept. of Mathematics, Xavier University, Cincinnati, Ohio 45207.

CIUCIURA, DR. THEODORE B(OHDAN), b. Kobaky, Ukraine, Jan. 10, 19; nat. POLITICAL SCIENCE, LAW. Cert. law, Lviv, Ukraine, 41; Dr. jur, Munich, 47, habil, 52; M.A, Columbia, 53. Lectr. & faculty secy. law, Ukrainian Free Univ, Munich, 46-48, exec. secy, 48-50, docent law & polit. sci, 50-60; gen. ed, Ukrainian Encyclop. Proj, 61-62; asst. prof. POLIT. SCI, ST. MARY'S (N.S), 62-63, ASSOC. PROF, 63- Historical and comparative study of governments, especially the politico-legal theory in the Russian Empire and the Union of Soviet Socialist Republics; political theory and international law. Address: 5547 Inglis St, Halifax, N.S, Can.

CIZON, PROF. FRANCIS A(NTHONY), b. East Chicago, Ind, Oct. 18, 26; m. 48; c. 1. SOCIOLOGY. A.B, Notre Dame, 47, fel. & Ph.D, 57; M.S.I.R, Loyola (Ill), 52. Instr. SOCIOL, Col. St. Rose, 54-55; asst. prof, LOYOLA (ILL), 55-61, assoc. prof, 61-67, PROF, SCH. SOC. WORK, 67- U.S.A.A.F, 44-45. Sociol. Asn. Sociology of personality disorders and industrial social structures; urban sociology. Publ: Parishes in the human community; Interethnic and interreligious marriages in parish X, Am. Cath. Sociol. Rev. Address: 8403 Delaware Place, Highland, Ind. 46322.

CLACK, DR. T(HOMAS) DEAN, b. Akron, Ohio, June 13, 32; m. 56; c. 1. PSYCHOLOGY. B.A, Connecticut, 56, M.A, 57, Ph.D.(psychol), 63. Res. assoc. psychol, C.W. Shilling Auditory Res. Center, Inc, 60-64; ASST. PROF. PHYSIOL. ACOUSTICS, KRESGE HEARING RES. INST, MED. SCH, MICHIGAN, 64- U.S.A, 50-52. Acoustical Soc. Human and animal psychoacoustics and audiology. Publ: Behavioral and pinna-reflex thresholds in the rat: audiometric and TTS covariations & Effect of signal duration on the auditory sensitivity of humans and monkeys (Macaca Mulatta), 11/66 & Aural harmonics: the masking of a 2000Hz tone by a sufficient 1000Hz fundamental, 10/67, J. Acoustical Soc. Am. Address: Kresge Hearing Research Institute, University of Michigan Medical School, Ann Arbor, Mich. 48104.

CLAFLIN, PROF. EDWARD SCOTT, b. Cleveland Heights, Ohio, Jan. 17, 12; m. 39; c. 3. POLITICAL SCIENCE. A.B, Oberlin Col, 33; M.A, Yale, 35, Ph.D.(int. rels), 47. Librn, For. Affairs Coun, 37-39; asst. prof. POLIT. SCI, BOWLING GREEN STATE, 47-51, assoc. prof, 51-63, PROF, 63- Ford. Found. fel, Seminar Teaching Int. Rels, summer 58. A.U.S, 43-46. Polit. Sci. Asn; Int. Studies Asn. International politics; alliances. Address: Dept. of Political Science, Bowling Green State University, Bowling Green, Ohio 43402.

CLAGUE, DR. EWAN, b. Prescott, Wash, Dec. 27, 96. LABOR ECONOMICS. A.B, Washington (Seattle), 17, A.M, 21; Ph.D, Wisconsin, 29. Asst, Washington (Seattle), 19-21; instr. econ, Wisconsin, 21-26; statistician, bur. labor statist, U.S. Dept. Labor, 26-28; asst, bus. res. bur, Metrop. Life Ins. Co, 28-29; inst. human rels, Yale, 30; dir. res. & prof. soc. res, Pa. Sch. Soc. Work, 31-36; dir. bur. res. & statist, Soc. Security Bd, 37-40, bur. employ. security, 40-46; cmnr, bur. labor statist, U.S. Dept. Labor, 46-65; ECON. CONSULT, 66- Regent's lectr, California, Los Angeles, 66; distinguished prof, Mich. State, 66; vis. prof, New Hampshire, 66; prof, Drexel Inst, 67. Consult, Secy. Labor, Wash, D.C, 66- Mem, U.S. Nat. Cmn, UNESCO, 67-69. U.S.A, 17-19. Econ. Asn; Statist. Asn; Soc. Adv. Mgt. Labor statistics. Address: 3821 Woodley Rd. N.W, Washington, D.C. 20016.

CLAIR, DR. DEAN J(AMES), b. Watertown, Minn, Feb. 27, 20. PSYCHOLOGY. A.B, California, 50; M.A, La. State, 51; U.S. Pub. Health Serv. fel, Northwestern, 52-55, Ph.D.(psychol), 55. Intern clin. psychol, Guid. Center, New Orleans, La, 51-52; instr. psychol, Northwestern, 54-55; med. psychol, Washington (St. Louis), 55-56; psychologist, child guid. clin, Children's Hosp, Calif, 56-57; assoc. prof, inst. human rels, Lima, 58-60; staff psychologist, Vet. Admin. Hosp, Palo Alto, Calif, 61-62; assoc. prof. psychol, San Francisco State Col, 63-64; Fulbright lectr, Nat. Univ. Colombia, 65; CHIEF PSYCHOL. SERV, COMMUNITY MENT. HEALTH SERV, MARTINEZ, 66- Private practice, 58- U.S. Merchant Marine, 42-45. AAAS; Psychol. Asn. Group dynamics; evaluation of therapeutic techniques; community psychology. Publ: Co-auth, Situational and personality factors in leadership among sorority women, Psychol. Monogr. Address: 1160 McDonald Dr, Pinole, Calif. 94564.

CLAIRMONTE, DR. F(REDERICK) F(RANCIS), b. Trinidad, B.W.I, July 3, 26; nat. Can; m. ECONOMICS. Lic.es.Sc, Geneva, 54, D.Sc.(econ), 58. Civilian officer, Int. Cmn. Supv. & Control, Indochina, 54-55; head res. dept, Indian Permanent Del, UN, Geneva, 55-57; lectr, Indian Inst. Sci, Bangalore, India, 58-60; asst. prof. econ, Dalhousie, 60-62; Ford Found. prof. econ, Nat. Sch. Law & Admin, Kinshasa, Congo & vis. prof. agr. econ, Univ. Lepoldville Lovanium, 62-63; SR. ECON. AFFAIRS OFFICER, UN ECON. CMN. AFRICA, 63- Land tenure problem in India. Publ: Economic liberalism and underdevelopment; Le liberalisme économique et les pays sous-developpés: études sur l' évolution d'une idée, co-auth, Industrial cooperation in Central Africa, UN Econ. Cmn. Africa, 66. Address: United Nations Economic Commission for Africa, P.O. Box 3005, Addis Ababa, Ethiopia.

CLAMPITT, DR. RICHARD R(OY), b. New Providence, Iowa, Dec. 7, 25; m. 56; c. 2. CLINICAL PSYCHOLOGY. B.S, Iowa State Col, 51, M.S, 54; U.S. Pub. Health Serv. fel, Iowa, 54-55, Ph.D.(psychol), 55. Clin. psychologist, Columbus Psychiat. Inst. & Hosp, 56-61; CHIEF CLIN. PSYCHOLOGIST, CENT. MINN. MENT. HEALTH CENTER, 61- Asst. prof, col. med. & lectr, sch. soc. work, Ohio State, 60-61. Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. Psychol. Asn. Psychotherapy; psychodiagnostics; evaluation of psychotherapeutic techniques; statistics and experimental design. Publ: Sociometric status and supervisory evaluation of institutionalized mentally deficient children, J. Soc. Psychol. Address: Central Minnesota Mental Health Center, 1321 13th St. N, St. Cloud, Minn. 56301.

CLANCY, DR. DAVID DANA, Psychol, see 10th ed, Soc. & Behav. Vols.

CLANCY, THOMAS H, S.J, b. Helena, Ark, Aug. 8, 23. POLITICAL SCIENCE. A.B, Spring Hill Col, 48; M.A, Fordham, 51; S.T.L, Louvain, 56; Ph.D.(polit. sci), London, 60; Oxford, 65-66. Instr. POLIT. SCI, Spring Hill Col, 50-52; LOYOLA (LA), 60-64, asst. prof, 64-67, ASSOC. PROF, 67-, CHMN. DEPT, 66- Folger summer fel, Folger Shakespeare Library, 61; Soc. Relig. in Higher Ed. fel, 65-66. Vis. ed, America, summer, 63. Polit. Sci. Asn. Political theory in 16th and 16th-17th centuries; southern politics. Publ: Papist phamphleteers, the Allen-Persons party and the political thought of the counter-reformation in England, Loyola, 64; Le probleme racial aux Etats-Unis, Etudes, 10/63; The Beacon controversy, Recusant Hist, IX: 63-74. Address: Dept. of Political Science, Loyola University, New Orleans, La. 70118.

CLAPP, DR. CHESTER D(ILLINGHAM), JR, b. Mich, Apr. 26, 20; m. 66; c. 3. PSYCHOLOGY. B.S, Wayne, 43; M.S.W, Michigan, 47; A.M, 49, Ph.D.(clin. psychol), 52. Head ment. hyg. serv, Merrill-Palmer Sch, 51-54; dir, Macomb Child Guid. Clin, Mich, 55-66; ASSOC. PROF. PSYCHOL. & DIR. VALLEY COUNSELING CENTER, INC, WEST VIRGINIA, 66- U.S.N.R, 42-45, Lt.(jg). Psychol. Asn; Soc. Proj. Tech. Educational administration; social-cultural development; psychotherapy, counseling and learning; personality growth and development. Address: 689 West View, Morgantown, W.Va. 26506.

CLAPP, DR. GORDON R(UFUS), Bus. Admin, see 10th ed, Soc. & Behav. Vols.

CLAPPERTON, DR. GILBERT, JR, b. Lewiston, Maine, Feb. 25, 39; m. 60; c. 1. CLINICAL PSYCHOLOGY. B.A, Bates Col, 62; M.A, New Hampshire, 63, Ph.D.(psychol), Baylor, 67. DIR. SCH. PSYCHOL, LOYOLA COL.(MD), 67- Clin. psychologist, Spring Grove State Hosp, 67- Psychol. Asn; Soc. Proj. Tech. Repression-sensitization as modes of ego defense. Address: 159 Orthoridge Rd, Lutherville, Md. 21093.

CLARE, DR. DONALD ALAN, b. Los Angeles, Calif, Apr. 16, 33; m. 53; c. 4. POLITICAL SCIENCE. B.A, California, Riverside, 60; Nat. Defense Ed. Act fel, Oregon, 60, M.A, 61, Ph.D.(polit. sci), 65. Asst. prof. polit. sci, Wayne State, 63-64; PUB. ADMIN, FLORIDA ATLANTIC, 64-66, ASSOC. PROF, 66- Consult, Dade County Metrop. Govt, 68. Dir. govt. mgt. develop. progs, Wayne State, 63-64; exec. dir, Palm Beach County Govt. Study Cmn, 65-67. U.S.N, 53-55. Polit. Sci. Asn; Soc. Pub. Admin. Organizational theory, especially the concept of power as it relates to behavior in organizations; planned change, especially community development in the developing nations. Publ: Co-auth, Public law 480: metamorphosis of a law, McGraw, 65; auth, Population changes and the financial activities of Florida counties, Fla. Planning & Develop, 67; Organizational control in the PACD, Philippine J. Pub. Admin, 68. Address: Dept. of Public Administration, Florida Atlantic University, Boca Raton, Fla. 33432.

CLARE, DR. KENNETH GUILFORD, b. Dallas, Wis, June 13, 18; m. 61; c. 5. ECONOMICS. Ph.B, Wisconsin, 41; M.A, Southern California, 46, Ph.D. (econ), 50. Coordinator training, Consol. West. Steel Corp, 42-46; asst. prof. bus. admin, Southern California, 48-50; econ, Utah, 50-51; dist. economist, Off. Price Stabilization, 51-53; res. economist, U.S. Dept. State, 53-56; asst. prof. bus. admin, Southern California, 56-59; economist, Stanford Res. Inst, 59-62, sr. economist, 62-65; V.PRES, WESTWOOD RES, INC, 65- Lectr, California, Los Angeles, 65-66, 67. Econ. Asn. Transportation systems planning; development planning in underdeveloped countries; urban area problems; military operations research. Publ: Co-auth, Economic coordination of transport in Nigeria, 61 & auth, Southern California regional airport study, 64, Stanford Res. Inst. Address: Westwood Research, Inc, Suite 1130, Kirkeby Center, 10889 Wilshire Blvd, Los Angeles, Calif. 90024.

CLARENBACH, PROF. FRED A, b. Jefferson City, Mo, Apr. 27, 09; m. 30; c. 2. ECONOMICS, POLITICAL SCIENCE. B.A, Missouri, 30, M.A, 32; Ph.D.(econ), Cornell, 41. Instr. econ, Cornell, 36-39; agr. economist, U.S. Bur. Agr. Econ, 39-45, 48, 49; from asst. prof. to assoc. prof. agr. econ, WISCONSIN, 45-48, polit. sci, 46-51, PROF, 51-62, REGIONAL PLANNING, 62-, chmn. water resources mgt. grad. prog, 64-68. Assoc. prof, Connecticut, 44; agr. economist, U.S. Dept. Agr, 56-; mem. prog. staff, off. secy, U.S. Dept. Interior, 52-53. Consult, Cmn. on Orgn. Exec. Br. of Govt, 54; UN Food & Agr. Orgn. consult, nat. planning coun, Govt. of Ceylon, 57-58; consult, water resources center, Univ. California, Berkeley & Los Angeles, 64. Polit. Sci. Asn; Econ. Asn. Natural resources develop and conservation; American local, state and national government and intergovernmental relations; national and international economic policies. Publ: Needed local government reorganization in Ozark land-use adjustment areas, Res. Bull, Mo. Agr. Exp. Sta; Farm real estate situation, Circular, U.S. Dept. Agr; contrib, Reliability of estimates of agricultural damages from floods, Task Force Report on Water Resources & Power, 2nd Hoover Cmn. Address: 5009 Risser Rd, Madison, Wis. 53705.

CLAREY, DEAN WILLIAM A(NDREW), b. Oskaloosa, Iowa, June 10, 24; m. 48; c. 5. ECONOMICS. B.S, Bradley, 48, M.A, 51. Asst. prof. ECON. & GEN. BUS, BRADLEY, 52-53, assoc. prof, 54, PROF, 55-, DEAN COL. BUS. ADMIN, 56-, acting head dept. gen. bus, 53, head, 54, acting dean col. bus. admin, 55. U.S.N, 43-46. Econ. Asn. Address: Baker Hall, Bradley University, Peoria, Ill. 61606.

CLARK, PROF. ALBERT HATCHER, b. Americus, Ga. Feb. 9, 31; m. 57; c. 3. ECONOMICS, FINANCE. B.B.A, Georgia, 52, M.B.A, 56; Ph.D.(econ), Pennsylvania, 61. Instr. econ, Clemson Col, 56; dir. exam, Am. Col. Life Underwriters, 59-61; PROF. FINANCE, GA. STATE COL, 61- U.S.A.F, 52-54, 1st Lt. Finance Asn. Insurance. Publ: Municipal retirement systems, J. Charter Life Underwriter, 61. Address: Dept. of Finance, Georgia State College, 33 Gilmer St, S.E, Atlanta, Ga. 30303.

CLARK, DR. ALEXANDER LOGIE, b. Johnshaven, Scotland, Mar. 17, 29; nat; m. 50; c. 4. SOCIOLOGY. A.B, San Diego State Col, 55; M.A, Stanford, 56, Woodrow Wilson fel, John Randolph Haynes & Dora Haynes fel. & Ph.D, 60. Acting asst. prof. sociol, Washington (Seattle), 59-60; assoc. prof, Texas, 60-67; STAFF ASSOC, DIV. BEHAV. SCI, NAT. ACAD. SCI, 67- Lib. arts fel, Harvard Law Sch, 66-67. Consult, Stanford Res. Inst, 58. U.S.M.C, 47-50, 51-52, Sgt. Fel. Sociol. Asn. Social control; sociology of law; social science and policy. Publ: Co-auth, The accuracy of husbands' and wives' reports of the frequency of marital coitus, Pop. Studies, 11/64; Social control: a reformulation, Soc. Probs, spring 65; Women's sexual responsiveness and the duration and quality of their marriages, Am. J. Sociol, 9/65. Address: Division of Behavioral Sciences, National Research Council, National Academy of Sciences, 2101 Constitution Ave. N.W, Washington, D.C. 20418.

CLARK, DR. ALICE T, b. Oneida Station, Preston, Idaho, Mar. 2, 26; m. 47; c. 6. EDUCATIONAL PSYCHOLOGY. B.S, Utah State, 47; M.Ed, Brigham Young, 60, Nat. Defense Ed. Act fel, 62-65; Ph.D.(ed. psychol, sociol), 65. Teacher, elem. schs, Utah, 47-48 & Minn, 48-49; instr. bus. Eng, Brigham Young, 54-55; ASST. PROF. & MEM. GRAD. FACULTY PSYCHOL, NORTH DAKOTA, 65-, FACULTY RES. GRANT, 67- Vis. summer lectr, Brigham Young, 66; lectr, Upper Midwest Region Ed. Lab, N.Dak, 67. Consult, Voc. Rehab. Disability Determination Center, 65-66; Ment. Retardation Center for Adults. & local sch. districts, 65-; Headstart Progs, 66- Psychol. Asn; Personnel & Guid. Asn; Asn. Retarded Children. Cognitive development in essentially pre-verbal children; characteristics of elementary education majors; vocational placement of the mentally retarded. Address: Dept. of Psychology, University of North Dakota, Grand Forks, N.Dak. 58201.

CLARK, PROF. ANDREW HILL, b. Fairford, Man, Apr. 29, 11; nat; m. 40; c. 4. GEOGRAPHY. B.A, McMaster, 30; Manitoba, 31-32; M.A, Toronto, 38; fel, California, 38-40, Ph.D.(geog), 44. Actuarial asst, Mfrs. Life Ins. Co, Can, 32-35; asst. & instr. geog, Toronto, 35-38; lectr, California, 38-40; vis. lectr, Canterbury Col, 40-42; instr, U.S. Army Air Force, 42; army specialized training prog, Hopkins, 43-44; res. analyst, Off. Strategic Serv, U.S. & China, 44-45; U.S. Dept. State, 45-46; assoc. prof. GEOG, Rutgers, 46-49, prof. & chmn. dept, 49-51; prof, WISCONSIN, 51-66, VERNOR CLIFFORD FINCH RES. PROF, 66-, chmn. dept, 58-61. Lectr, Univ. London, May, 54; Guggenheim fel, Fulbright res. scholar & Soc. Sci. Res. Coun. faculty res. scholar, 61-62; grants, Carnegie Corp. N.Y, Rutgers Res. Coun, Wis. Res. Cmt. & Asn. Am. Geographers; MacDonald lectr, McGill, 66; Erskine fel, Canterbury, 67. Asn. Am. Geog.(ed, monogr. series, 57-61, hon. pres, 61-62); Geog. Soc; Can. Geog. Soc. Historical geography of Canada, United States, Australia, New Zealand and South Africa, especially geographic aspects; evolution of rural settlement and agricultural and pastoral patterns in lands settled overseas from shores of North Sea. Publ: The invasion of New Zealand by people, plants and animals; Three centuries and the Island; co-auth, The roots of Canada's geography, In: Canada: a geographical interpretation, Methuen, 67. Address: Dept. of Geography, University of Wisconsin, Madison, Wis. 53706.

CLARK, DR. A(RCHIE) C, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 66.

CLARK, PROF. BRANT, b. Stockton, Calif, Sept. 11, 06; m. 36; c. 2. PSYCHOLOGY. A.B, California, 29; A.M, Southern California, 31, Ph.D.(psychol), 34. Lectr. psychol. & physiol. optics, Southern California, 29-36; from instr. to asst. prof. PSYCHOL, SAN JOSE STATE COL, 36-46, assoc. prof, 46-49, PROF, 49- Lectr, California, 38; Nat. Acad. Sci. resident res. assoc, Ames Res. Center, Moffett Field, Calif, 66-67. Summer consult, U.S. Naval Sch. Aviation Med, 46-65. U.S.N, 42-46, Res, 51-53, Comdr. AAAS; fel. Psychol. Asn; Aerospace Med. Asn.(Longacre award, 60). Visual perception; spatial orientation; aviation psychology. Address: Dept. of Psychology, San Jose State College, San Jose, Calif. 95114.

CLARK, PROF. BURTON R(OBERT), b. Pleasantville, N.J, Sept. 6, 21; m. 49; c. 2. SOCIOLOGY. B.A, California, Los Angeles, 49, Soc. Sci. Res. Coun. fel, 52-53, Ph.D.(sociol), 54. Asst. prof. sociol, Stanford, 53-56; asst. prof. ed. & res. assoc, Harvard, 56-58; assoc. res. sociologist, center study higher ed, California, Berkeley, 58-64, res. sociologist, 64-66, prof. ed, sch. ed, 64-66; PROF. SOCIOL, YALE, 66- U.S.A, 42-45. Sociol. Asn; Soc. Study Social Probs. Formal organization; sociology of education. Publ: Adult education in transition, a study of institutional insecurity; The open door college: a case study; Educating the expert society. Address: Dept. of Sociology, Yale University, New Haven, Conn. 06520.

CLARK, PROF. CARL A(RTHUR), b. Oak Park, Ill, Sept. 20, 11; m; c. 1. PSYCHOLOGY. B.A. & M.A, Colo. Col. Ph.D, Iowa, 54. Res. assoc. parent ed. proj, Chicago, 53-54; instr. CHILD PSYCHOL, CHICAGO TEACHERS COL, 54-56, assoc. prof, 59-62, PROF, 62-, CHMN. DEPT, 56- Proj. evaluator, Chicago Great Cities Sch. Improv. Prog, 62-65. U.S.A, 42-45. AAAS; Psychol. Asn; Coun. Measurement in Ed. Child psychology; learning; experimental design; study of factors in scholastic success and failure; operant conditioning in the classroom. Publ: Knowledge of mental hygiene and probability thinking in high school students, Am. Psychologist; Look at some class teaching methods, Chicago Sch. J; Should students change answers on objective tests? Chicago Sch. J, 5/62. Address: 5420 S. Cornell Ave, Apt. 307, Chicago, Ill. 60615.

CLARK, PROF. CARL M, b. Arnett, Okla, Mar. 13, 05; m. 30; c. 3. AGRICULTURAL ECONOMICS. B.S, Okla. Agr. & Mech. Col, 28, M.S, 29; Soc. Serv. Res. fel, California, 32-33; univ. fel, Wisconsin, 36-37, 46-47. Mem. faculty, Ala. Polytech, 29-36, asst. agr. econ. res, cotton mkt, 29-36; ASSOC. PROF. AGR. ECON, KENTUCKY, 37- Agr. Econ. Asn. Agricultural marketing and finance; rural taxation; optimum light conditions for grading tobacco. Publ: Efficiency problems in the management problems of looseleaf warehouses; Seasonal patterns of tobacco sales and prices from river warehouse days to the present looseleaf auctions; Rural property tax system in Alabama. Address: Dept. of Agricultural Economics, University of Kentucky, Lexington, Ky. 40506.

CLARK, PROF. CARROLL D(eWITT), b. Minneapolis, Kans, Jan. 10, 98. SOCIOLOGY. A.B, Kansas, 22, A.M, 25; fel, Chicago, 27-28, Ph.D, 31. Res. assoc, Connecticut, 29-30; assoc. prof, KANSAS, 30-33, PROF. SOCIOL, 33-, chmn. dept, 33-63. Vis. prof, Virginia, 29; fel, Harvard, 45-46; Fund Adult Ed. fel, Cornell, 54-55. Consult, Center Study Lib. Ed. for Adults, 54-56. U.S.A, 17-19, U.S.A.A.F, 42-45, Maj. Sociol. Asn; Nat. Soc. Sociol. Musicians; N.Y. Acad. Sci. Adult education; population problems; Kansas social resources; public opinion; psychological sociology. Publ: Co-auth, Handbook of Kansas social resources, 31 & People of Kansas: a sociological and demographic study, 56, State of Kans. Address: Dept. of Sociology, University of Kansas, Lawrence, Kans. 66044.

CLARK, DEAN CHARLES B(RANCH), b. Ellicott City, Md, June 5, 13; m. 45; c. 2; m. 67; c. 2. POLITICAL SCIENCE. A.B, Washington Col, 34; A.M, Duke, 36; Ph.D. North Carolina, 41. Asst. prof. soc. sci, W.Ga. Col, 41-42, 45-46; prof. hist. & polit. sci. & head dept, Washington Col, 46-56; dean men, 47-53; prof. polit. sci, Monmouth Col, 57-60; Maltbie prof. govt, UPPER IOWA, 60-66, PROF. POLIT. SCI. & HIST, 66-, ACAD. DEAN, 65- Lectr, Maryland, 48-; orgn. & mgt. analyst, U.S. Atomic Energy Cmn, 56-57. U.S.M.C, 42-45, Lt. Col. Polit. Sci. Asn; Hist. Asn. Politics in Maryland during the Civil War; history of the eastern shore of Maryland and Virginia. Publ: Articles on Baltimore and Maryland, Encyclop. Britannica, 60, revised, 67; Recruitment of union troops in Maryland, 1861-1865 & Baltimore and the attack on the sixth Massachusetts regiment, April 19, 1861, Md. Hist. Mag. Address: Dept. of Political Science & History, Upper Iowa University, Fayette, Iowa 52142.

CLARK, DR. CHARLES M(ARVIN), b. Johnstown, Ohio, Nov. 25, 27; m. 51; c. 2. COUNSELING PSYCHOLOGY. B.A, Akron, 51, M.A, 56; Ph.D, Ohio State, 60. Teacher, Bd. Ed, Akron, Ohio, 53-55; coordinator child study & guid, Marion, 55-58; instr. ed, Ohio State, 58-59, psychologist, counseling & testing center, 59-60; asst. prof. ed. psychol, Texas, 60-65; assoc. prof. counseling & sch. psychol, Calif. State Col. Hayward, 65-67; DIR. PSYCHOL. & ASSESSMENT, CORPUS CHRISTI PUB. SCHS, 67- U.S.A, 51-52, Sgt. AAAS; Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. Educational and school psychology. Address: Corpus Christi Public Schools, P.O. Box 110, Corpus Christi, Tex. 78403.

CLARK, DR. CHARLES T(ALIAFERRO), b. Danville, Ill, Mar. 18, 17; m. 50; c. 3. STATISTICS. B.B.A, Texas, 38, M.B.A, 39, Ph.D, 56. Asst. mgr, Austin Chamber Commerce, Tex, 40-41, asst. dean student life, TEXAS, 46-48, dir. classified personnel, 48-49, syst. personnel adv, 59-61, ASSOC. PROF. BUS. STATIST, UNIV. & RES. ASSOC, BUR. BUS. RES, 59- Consult, Off. Econ. Opportunity, 67- U.S.A.A.F, 41-46, 2nd Lt. Statist. Asn; Econ. Asn. Management simulation games. Publ: Recreational boating in Texas; co-auth, Small business game; computerized model I, Vols. I, II; auth, Business situation in Texas, Tex. Bus. Rev. Address: Dept. of General Business, University of Texas, Box 7668, University Station, Austin, Tex. 78712.

CLARK, DEAN CLIFFORD D(ALE), b. Moulton, Iowa, Feb. 26, 25; m. 49. ECONOMICS. B.A, Kansas, 48; M.A, Chicago, 50, Ph.D.(econ), 53. For. affairs officer, U.S. Govt, 50-55; asst. prof. econ, N.C. State Col, 55-57; assoc. prof, grad. sch. bus, N.Y. Univ, 57-62, prof, 62-68, head res. off, 63-64, assoc. dean, 64-65, v.dean, 65-68; DEAN SCH. BUS, KANSAS, 68- Consult, U.S. Govt, 55-57; Gov. Cmt, New York, 61-62; N.Y. State Legis, 64- U.S.A, 43-46. Econ. Asn; Finance Asn; Tax Inst; Royal Econ. Soc. Technological advances and economic growth; foreign affairs and government expenditures; economic theory; tax policy; corporate tax and financial structure; new directions in business education. Publ: Co-auth, The theory and measurement of rent, Chilton, 61; auth, Economic appraisal of depreciation policy, J. Bus; co-auth, Wage theory, wage rates and productivity. Address: School of Business, University of Kansas, Lawrence, Kans. 66044.

CLARK, DR. DAVID HENRY, b. Tulsa, Okla, Oct. 20, 32; m. 57; c. 2. ECONOMICS. B.A, Oklahoma, 54; M.S, Wisconsin, 60, Ph.D.(econ), 62. Soc. ins. res. analyst, Soc. Security Admin, 61-63; asst. prof. bus. & econ, MAINE, 62-66, ASSOC. PROF. ECON. & DIR. MANPOWER RES. PROJ, 66- Mem. staff, State Credit Res. Cmt, Maine, 64; dir, Econ. Base Study, City of Bangor, 65-67. Econ. Asn; Indust. Rels. Res. Asn; Regional Sci. Asn. Manpower research; regional economic development. Publ: Co-auth, The Bangor area economy, 67; auth, OASDI beneficiaries newly approved for old-age assistance, 63 & Concurrent receipt of OASDI and workmen's compensation, December, 1960, 63, Soc. Security Bull. Address: Dept. of Economics, University of Maine, Orono, Maine 04473.

CLARK, DR. DONALD H(ENRY), b. Spring Lake, N.J, July 10, 30; m. 58. PSYCHOLOGY. B.A, Antioch Col, 53; Ph.D.(psychol), Adelphi, 59. Clin. psychologist, ment. hyg. clin, Vet. Admin, Calif, 59; coordinator, male adv. rehab. unit, Phila. State Hosp, Pa, 60-61; instr, ed. clin, HUNTER COL, CITY UNIV. NEW YORK, 61-64, asst. prof. ED, 65-67, ASSOC. PROF, 68-, DIR. ED. CLIN, LEHMAN COL, 65- U.S.A, 53-55. Psychol. Asn. Sensitivity training for teachers; attitude change through small group discussion; educational psychology. Publ: Co-auth, Emotional disturbance and school learning, Sci. Res. Assocs, 65; auth, The psychology of Education, Macmillan, 67. Address: Dept. of Education, Lehman College, Bedford Park Blvd, W, New York, N.Y. 10468.

CLARK, DR. DONAVAN L(EE), b. Kansas City, Mo, Apr. 16, 19; m. 44; c. 2. ANTHROPOLOGY. A.B, California, Los Angeles, 49; M.A, Claremont Col, 56; univ. scholar, Stanford, 57-58, Newhouse fel, 58-59, Wenner-Gren Found. Anthrop. grant, 59, Nat. Sci. Found. grants, 59-62, Ph.D, 61. Lectr. & curator anthrop. & natural hist, Ore. Mus. Sci. & Indust, 49-51; petrol. chemist, anal. lab, process labs. div, Gen. Petrol. Corp, 51-54; process analyst qual. control dept, guided missile facility, Convair Div, Gen. Dynamics Corp, 55-56; res. assoc. anthrop, Stanford, 59-60; archaeol, U.S. Nat. Mus, Smithsonian Instn, 60-62; sr. systs. analyst, Syst. Develop. Corp, 62-64; sr. res. adv. oper. anal, STANFORD RES. INST, 64-65, RES. ANTHROPOLOGIST, 65- Summer, vis. prof, Mex. City Col, 59. U.S.M.C, 36-45, Sgt. AAAS; fel. Anthrop. Asn; Asn. Phys. Anthrop. Human and cultural evolution; prehistory; development of dating and other analytical techniques useful for archaeology and geochronology; earth science methods utilizing natural materials for identifying past cultures and environment; applied anthropology in technologically developing nations. Publ: Archaeological chronology in California and the obsidian hydration method, Annual Report, Archaeol. Surv, California, Los Angeles, 64; Socioeconomic factors of boat use on the Mekong River, Tech. Note 30, Sanford Res. Inst, 67, Riverine activities of Thai/Lao villagers on the Middle Mekong, Res. Memorandum 15, Stanford Res. Inst, 68. Address: Regional Security Studies Center, Stanford Research Institute, Menlo Park, Calif. 94025.

CLARK, PROF. DORA MAE, b. Derby, Vt, June 10, 93. POLITICAL SCIENCE. A.B, Mt. Holyoke Col, 15; A.M, Columbia, 16; Bulkley fel, Yale, 22-24, Ph.D, 24. Instr. hist, Western Reserve, 25; prof. AM. HIST. & POLIT. SCI, WILSON COL, 25-61, EMER. PROF, 61- Soc. Sci. Res. grants, 39, 50; Huntington Library fel, 49. Hist. Asn. English and American history of eighteenth century. Publ: British opinion and the American Revolution; Rise of the British Treasury. Address: 134 Pennsylvania Ave, Chambersburg, Pa. 17201.

CLARK, PROF. DOUGLAS ALAN, b. Brooklyn, N.Y, Aug. 26, 17; m. 44; c. 3. SOCIOLOGY. B.S, Wheaton Col.(Ill), 40; B.D, East. Baptist Theol. Sem, 43; M.A, Illinois, 57. Asst. prof. SOCIOL, Wayland Baptist Col, 58-66; ASST. PROF. & CHMN. DEPT, OKLAHOMA BAPTIST, 66- Sociol. Asn; Am. Sci. Affiliation; Soc. Study Social Probs. Courtship patterns of west Texas youth. Publ: Silent explosion & Status-adulterated friendship, Baptist Standard; Where population declines, Baptist Prog. Address: Dept. of Sociology, Oklahoma Baptist University, Shawnee, Okla. 74801.

CLARK, PROF. E(DWARD) L(ESTER), b. White Hall, Ill, Sept. 25, 95. PSYCHOLOGY. A.B, DePauw, 20; A.M, Northwestern, 22, Ph.D, 25. Asst. dir. personnel, NORTHWESTERN, 22-30, assoc. prof. PSYCHOL, 30-62, PROF, 62-, dir. admissions, 27-44, univ. exam, 44-48. AAAS; fel. Psychol. Asn; Statist. Asn. College personnel problems. Address: 16 Tyler St, Brattleboro, Vt. 05301.

CLARK, PROF. EDWARD T(HOMAS), b. New York, N.Y, Dec. 19, 18; m. 42. PSYCHOLOGY. B.S, N.Y. Univ, 50, M.A, 51, Ed.D, 58. Teacher spec. ed, N.J, 50-51, Calif, 51-53; sch. psychologist, Off. Supt. Schs, San Diego County, Calif, 53-55; instr-psychologist, reading inst, N.Y. Univ, 55-58; res. dir, pre-sch. center, N.Y. Soc. for Crippled Children & Adults, Inc, 58-60; PROF. PSYCHOL, ST. JOHN'S (N.Y), 60- Consult, Calif. State Bd. Ment. Hyg, Porterville State Hosp, 58. Adj. Gen. Dept, 42-46, Sgt. Psychol. Asn; Asn. Ment. Deficiency. Social, emotional and school adjustment of physically and mentally handicapped children and youth. Publ: Pre-school education of crippled children in New York City. Address: Dept. of Psychology, St. John's University, Grand Central & Utopia Pkwy, Jamaica, N.Y. 11432.

CLARK, DEAN ELMER J, b. Wixom, Mich, Dec. 17, 19; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Michigan, 41, A.M, 43, Ph.D.(ed. psychol, guid), 49. Asst, Michigan, 46-48; assoc. prof. ed, Cent. Mo. State Col, 48-49; asst. prof. soc. studies, Indiana State, 49-51, assoc. prof, 51-56, prof. ed. & dean grad. studies, 55-64; PROF. ED. & DEAN COL. ED, SOUTHERN ILLINOIS, 64- Consult. & exam, N.Cent. Asn. Cols. & Sec. Schs, 57-U.S.A.A.F, 43-46. Psychol. Asn; Coun. Measurements in Ed. Citizenship education; teacher personality; behavior problems of children. Address: College of Education, Southern Illinois University, Carbondale, Ill. 62901.

CLARK, DEAN EUGENE, b. Ann Arbor, Mich, July 21, 17; m. 42; c. 5. ECONOMICS. A.B, Swarthmore Col, 39; A.M, Harvard, 41, Ph.D.(econ), 49. Economist, War Prod. Bd, 42-43; U.S. Dept. Commerce, 44-45; instr, Tufts Col, 45-46; asst. prof. econ, Ohio Wesleyan, 46-49, assoc. prof, 50-54, prof, 55-56; economist, bd. governors, Fed. Reserve Syst, 56-57; PROF. ECON. & DEAN COL. ECON. & BUS, WASHINGTON STATE, 57- Mem. export expansion coun, Dept. Commerce, 62- Econ. Asn; Mkt. Asn; fel. Royal Econ. Soc. Business cycles; public finance; marketing. Publ: Co-auth, Values and policy in American society; Principles of marketing; Appraisal of methods of estimating the size distribution of a given aggregate income, Rev. Econ. Statist. Address: 245 Todd Hall, Washington State University, Pullman, Wash. 99163.

CLARK, PROF. EVALYN A(NNA), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLARK, EVANS, b. Orange, N.J, Aug. 9, 88. ECONOMICS. A.B, Amherst Col, 10; Harvard, 10-11; A.M, Columbia, 13. Instr. govt, Princeton, 14-17; assoc. ed, Utilities Mag, 17-19; asst. dir. commercial dept, U.S.S.R. Bur. in U.S, 19-20; co-organizer, Labor Bur, Inc, 20, managing dir, 20-24; bus. mgr, New York Call, 24; assoc. ed, Advert. Weekly, 24-25; spec. ed, book rev. & feature writer econ. subj. & asst. to Sunday ed, New York Times, 25-28; exec. dir, Twentieth Century Fund, 28-53; MEM. bd. ed, NEW YORK TIMES, 54-61, BD. TRUSTEES, 53- Chmn, N.Y. State Adjust. Bd, Nat. Recovery Admin, 35; econ. adv, New York Housing Authority, 35-37; co-founder & secy, Coun. Democracy, 40-49, producer & commentator, radio broadcasts, 41-44; co-organizer & chmn, Prog. Info. Exchange, 44, 48. Trustee, Spring Hill Sch, 33-38; Film Coun. Am, 48-, chmn, bd. trustees, 49-50; bd. dirs, Nat. Pub. Housing Conf, 35-37; pub. policy cmt, Advert. Coun, 46-50, v.chmn, 50, dir, 50-60; mem. Coun. For. Rels; Am. Inst. Pac. Rels. Fel. Geog. Soc; Acad. Polit. Sci. Current economic problems; stock market control; war-time facts and postwar problems. Address: 390 First Ave, New York, N.Y. 10010.

CLARK, DR. FLOYD BARZILLIA, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

CLARK, DR. FOGLE C(HANDLER), b. Southern Pines, N.C, Aug. 5, 28; div; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, North Carolina, 50, M.A, 56, Ph.D.(exp. psychol), 57. Instr. psychol, North Carolina, 55-57; res. assoc, U.S. Army Armor Human Res. Unit, HumRRO, 57-58; asst. prof. psychol, Kentucky, 58-60, assoc. proj. dir, Wenner-Gren Aeronaut. Res. Lab, 59-60; res. psychologist & dir. res, Evansville State Hosp, 60-67; ASSOC. PROF. PSYCHOL, NORTH CAROLINA, 67- Lectr, Louisville, 57-58; assoc. dir, Bio-Astronaut. Training Contract, aero-med. field lab, Holloman Air Force Base, N.Mex, 59-60. Consult, biosci. progs, off. space sci. & appln, hq. NASA, 62-; aeronaut. res. lab, Univ. Kentucky, 63- Mil. Intel, U.S.A, 50-53. AAAS; fel. Psychol. Asn; N.Y. Acad. Sci; Behav. Pharmacol. Soc. Operant conditioning; learning; perception; history and methodology of psychology; behavioral pharmacology; effects of space environements on behavior. Publ: Effect of deprivation and frequency of reinforcement on variable interval responding & Avoidance conditioning in the chimpanzee, J. Exp. Anal. Behav; Some quantitative properties of operant extinction data, Psychol. Report. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27514.

CLARK, PROF. FRANCIS E(LDON), b. Craig, Nebr, May 30, 06; m. 30; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, North. State Teachers Col, 30; M.S, Colorado, 37, fel, 46-47, Ed.D, 48. Prin, high sch, S.Dak, 39-45; prof. ed. & psychol, St. Olaf Col, 47-59, chmn. dept, 50-53, 54-59; PROF. ED. & COUNSR, HAWAII, 59-, chmn. dept. ed. psychol, 61-62, asst. dean faculties, 62-63. Lectr, Luther Hosp, Watertown, S.Dak, 39-42; Bartron Hosp, 40-42, coordinator adult ed, 42-45; dir. teacher ed, Ore. Col. Ed, 53-54; Fulbright prof, med. faculty, Ankara, 66. Consult, Suomi Col, 52-53. Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv. Guidance and personnel work; statistics; counseling. Publ: The counselee is a learner, Jr. Col. J; Child guidance. Address: Dept. of Educational Psychology, University of Hawaii, Honolulu, Hawaii 96822.

CLARK, DR. GERALD ROBERT, b. Parr, Alta, Mar. 17, 18; U.S. citizen; m. 51; c. 6. PSYCHIATRY. B.A, Oregon, 42, M.D, 45; M.P.H, Harvard, 51. Dir, State Dept. Health, N.Mex, 53-55; psychiatrist, Norristown State Hosp, Pa, 55-58; supt, Somerset State Hosp, Pa, 58-59; dir. psychiat. clins, Jefferson Med. Col, 59-60; supt, Elwyn Sch, 60-66, PRES, ELWYN INST, 66- Assoc. prof. psychiat. & pediat, Pennsylvania, 67-; sr. physician, Childrens Hosp. of Phila, 67- Dipl. pub. health, Am. Bd. Prev. Med, 53; Am. Bd. Psychiat. & Neurol, 62. U.S.A, 43-52, Lt. Col. Mental retardation; vocational training and rehabilitation. Address: Washington Rd, Elwyn, Pa. 19063.

CLARK, PROF. HAROLD B(ROWN), b. Berea, Ky, Sept. 3, 15; m. 41; c. 4. AGRICULTURAL ECONOMICS. B.A, Berea Col, 37; Chicago, 37-39; Ph.D, Kentucky, 50. Rural rehab. supvr, Farm Security Admin, 39-42; from instr. to assoc. prof. AGR. ECON, Kentucky, 47-58; PROF, FLORIDA, 58- U.S.N, 42-45, 50-52. Farm Econ. Asn. Agricultural marketing; price analysis and statistics; farm and market management; rural appraisal; production economics. Publ: Cooperative fire insurance companies in Kentucky; The role of farmers cooperative associations in the marketing of dark tobacco in Ky-Tenn. from 1931-1953. Address: Dept. of Agricultural Economics, University of Florida, Gainesville, Fla. 32601.

CLARK, PROF. HAROLD F(LORIAN), b. Lancaster, Ky, Aug. 29, 99. ECONOMICS. A.B, Asbury Col, 20, LL.D, 30; A.M, Columbia, 22, Ph.D, 23; Indiana, 23-25; London, 26-27. Asst. prof. ed, Indiana, 23-25, assoc. prof, 25-27, prof, 27-28; ed. econ, Teachers Col, Columbia, 28-67; PROF. ECON, & CHMN. DEPT, TRINITY (TEX), 67- Spec. consult. appl. econ. proj, Alfred P. Sloan Found, 40-; consult. spec. asst, U.S. Air Force Acad; Manpower Coun. Chmn. exec. bd, Soc. Ed. U.S.A, 18-19, 42-44. AAAS; Am. Econ. Asn; fel. Royal Econ. Soc. Factors affecting the use of human resources of the country; business organization and operation; economic problems of the consumer. Publ: Economics; Classrooms in the factory; Classrooms in the stores. Address: Dept. of Economics, Trinity University, San Antonio, Tex. 78209.

CLARK, DR. HERBERT H(ORACE), b. Deadwood, S.Dak, Mar. 20, 40; m. 67. PSYCHOLOGY. B.A, Stanford, 62; Nat. Sci. Found. fel, Hopkins, 63-66, M.A, 64, Ph.D.(psychol), 66. Asst. mem. tech. staff, Bell Tel. Labs, 63, part-time res. vis. PSYCHOL, 64-65; ASST. PROF, CARNEGIE-MELLON UNIV, 66- Psychol. Asn. Psycholinguistics; memory; cognition; perception; scaling; semantics. Publ: Some structural properties of simple active and passive sentences, 65, Prediction of recall patterns in simple active sentences, 66 & On the use and meaning of prepositions, in press, J. Verbal Learning & Verbal Behav. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

CLARK, DR. HERBERT JAMES, b. Detroit, Mich, Dec. 25, 32; m. 64; c. 1. PSYCHOLOGY. A.B, Michigan, 59, univ. fels, Illinois, 61-62, M.A, 61, Nat. Sci. Found. fel, 63, Ph.D.(psychol), 64. RES. PSYCHOLOGIST, AEROSPACE MED. RES. LABS, WRIGHT PATTERSON AIR FORCE BASE, 64- Lectr, Dayton, summer, 65, Wright State, 65- Mem. armed forces vision cmt, Nat. Acad. Sci-Nat. Res. Coun, 66- U.S.A.F, 52-55. AAAS; Human Factors Soc; Aerospace Med. Asn. Human performance and human visual perception; form perception, visual displays, and the navigation of spacecraft using visual cues only. Publ: Recognition memory for random shapes as a function of complexity, association value and delay, J. Exp. Psychol, 65; Optimum angular accelerations for control of a remote maneuvering unit, 66 & Control of a remote maneuvering unit during satellite inspection, Human Factors J, 66. Address: 6570 AMRL (MRHED), Wright Patterson Air Force Base, Ohio 45433.

CLARK, DR. HOWARD GATES, b. Columbus, Ohio, Aug. 7, 31; m. 66; c. 2. PSYCHOLOGY. B.S, Cent. Mo. State Col, 53; M.A, Colo. State Col, 56, Ed.D. (psychol), 62. Dir. guid, high sch, Colo, 56-61; asst. prof. PSYCHOL, TEX. WESLEYAN COL, 62-64, ASSOC. PROF, 64-, CHMN. DEPT, 63- U.S.A, 53-

55. Psychol. Asn; Personnel & Guid. Asn; Acad. Relig. & Ment. Health. Religion and mental health; the helping relationship and the effect of attitudes on learning. Address: Dept. of Psychology, Texas Wesleyan College, Fort Worth, Tex. 76105.

CLARK, PROF. IRA G(RANVILLE), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLARK, DR. JAMES M(ILFORD), b. Wayne, Mich, Apr. 11, 30; m. 60; c. 3. POLITICAL SCIENCE. B.A, Michigan, 52; M.A, Philippines, 55; Fulbright grant, France, 55-56; univ. fel, Michigan, 57-59, Rackham fel, 59-60, Ph.D. (polit. sci), 62. Asst. prof. govt, MAINE, 60-64, assoc. prof. polit. sci, 64-66; asst. to pres, 66-68, V.PRES. ACAD. AFFAIRS, 68- Fulbright lectr, Univ. Toulouse, 65-66. U.S.A, 52-55, Sgt. Polit. Sci. Asn. Comparative politics, especially French pressure groups; Southeast Asia. Publ: Teachers and politics in France, Syracuse Univ, 67. Address: 15 Mayo St, Orono, Maine 04473.

CLARK, PROF. JAMES V, b. Highland Park, Ill, Apr. 9, 27; m. 64; c. 4. ORGANIZATIONAL BEHAVIOR, SOCIAL PSYCHOLOGY. M.B.A, Harvard, 56, D.B.A, 58. Asst. prof. BUS. ADMIN, GRAD. SCH. BUS. ADMIN, Harvard, 58-61; CALIFORNIA, LOS ANGELES, 61-66, assoc. prof, 66-69, PROF, 69- Mgt. develop. consult, Non-Linear Systs, Inc, Calif, 63-; TRW Systs, Inc, Calif, 64-; Procter & Gamble Co, Ohio & Santa Maria High Sch. Dist, Calif, 65- U.S. Maritime Serv, 45-47. Fel. Sociol. Asn; Psychol. Asn; fel. Soc. Appl. Anthrop. Release of positive mental health in interpersonal, small group and organizational settings. Publ: Co-auth, Organizational behavior and administration, Irwin & Dorsey, 61; auth, Education for the use of behavioral science, Inst. Indust. Rels, Univ. California, Los Angeles, 63. Address: Dept. of Business Administration, University of California, Los Angeles, Calif. 90024.

CLARK, DR. JAMES WARD, b. Lethbridge, Alta, Jan. 19, 32. PSYCHOLOGY. B.A, McGill, 53, M.A, 55; Ph.D.(psychol), Queen's (Ont), 58. Res. assoc. PSYCHOL, Queen's (Ont), 58-59; asst. prof, DALHOUSIE, 59-65, ASSOC. PROF, 65- Animal motivation; learning; history of psychology. Publ: auth, The aging dimension, J. Geront; Individual differences in pain thresholds, Can. J. Psychol; co-auth, The development of rapid running in T-mazes in the absence of obvious rewards, Psychonomic Sci, 66. Address: Dept. of Psychology, Dalhousie University, Halifax, N.S, Can.

CLARK, DR. JERE W(ALTON), b. Rex, Ga, Jan. 31, 22; m. 47; c. 2. ECONOMICS. B.B.A, Georgia, 47, M.A, 49; Du Pont fel, Virginia, 49-51, Ph.D. (econ), 53. Asst. econ, Georgia, 47-49; bur. pop. & econ. res, Virginia, 49-52; asst. prof. econ, West Virginia, 52-55; econ. & commerce, Chattanooga, 55-57, assoc. prof, 57-62; PROF. ECON. & CHMN. DEPT, SOUTH. CONN. STATE COL, 62- South. Fel. Fund. fel, 58; mem. staff, creative prob-solving inst, Buffalo, 58-; Volker Fund fel, North Carolina, 59; Ford Found. fel, Duke, 61. South. regional mem-at-large, Nat. Cmt. Careers, Nat. League Nursing, 59-63; mem. leadership coun, Creative Ed. Found, 61-; chmn. prog. cmt, Nat. Workshop Systs. Ed, 67. Consult; ed. consult, J. Creative Behav, 66- Award, Nat. Awards Prog, Kazanjian Econ. Found, 62-63. U.S.A, 43-45. Econ. Asn; Soc. Gen. Syst. Res. Economic theory; applied imagination. Publ: Railway commodity flow interconnections within the United States, 1949-1950; ed, Economic education experiences of enterprising teachers, Vols. I,II,III, Joint Coun. Econ. Ed, 63-65; auth, Creativeness—can it be cultivated, Bus. J, spring 65. Address: Dept. of Economics, Southern Connecticut State College, New Haven, Conn. 06515.

CLARK, DR. JERRY H(OLLIS), b. Albany, Tex, Oct. 25, 12; m. 59; c. 1. CLINICAL PSYCHOLOGY. B.A, Southern Methodist, 33, M.A, 36; Ph.D. (clin. psychol), Texas, 48. Asst. psychol, Texas, 37-41, instr, 46; mgr, voc. guid. center, California, 47-48, registr, 48-52, asst. prof. psychol, 52-57; CHIEF PSYCHOL. SERV, disciplinary barracks, U.S. DEPT. ARMY, 57-59, 97th Gen. Hosp, 59-62, Fitzsimons Gen. Hosp, 62-65, 2nd GEN. HOSP, 65- Consult. psychol, U.S. Army Europe, 65- U.S.A, 42-46, 50-52. Fel. Psychol. Asn. Personality tests; army delinquency; psychometrics. Publ: Adjustment of army AWOLS, J. Abnor. Soc. Psychol; Relationship between MMPI scales and psychiatric diagnosis of army and air force prisoners & Personality inventory for induction screening, J. Clin. Psychol. Address: Psychology Service, Box 14, 2nd General Hospital, APO New York 09180.

CLARK, PROF. J(OHN) DESMOND, b. London, Eng, Apr. 10, 16; m. 38; c. 2. ARCHAEOLOGY. B.A, Cambridge, 37, M.A, 42, Ph.D, 50. Dir, Rhodes-Livingstone Mus, North. Rhodesia, 38-61; PROF. ANTHROP, CALIFORNIA, BERKELEY, 61-, CURATOR AFRICAN ARCHAEOL, LOWIE MUS. ANTHROP, 65- Res. fels, Univ. California, Los Angeles, East. Center Archaeol, Syria, 64-65; Nat. Sci. Found, Malawi, 65-68; Wenner-Gren Found, 65-68. Adv, Nat. Geog. on Calico Hills Proj, 65-66. Brit. Army, 41-46, Capt. AAAS; fel. Am. Acad. Arts & Sci; fel. Brit. Acad; fel. Royal Soc. S.Africa. Field excavation and analytical study of technological equipment, ecological; dietary evidence for reconstruction of African culture from lower Pleistocene to early Iron Age; Pleistocene archaeology of the Middle Orontes, Syria. Publ: Prehistoric cultures of the Horn of Africa; Prehistory of Southern Africa; Atlas of African prehistory, Univ. Chicago, 67. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

CLARK, DEAN JOHN J, b. Brooklyn, N.Y, June 21, 24; m. 50; c. 1. ECONOMICS. B.B.A, St. John's (N.Y), 48; M.B.A, City Col. New York, 50; Ph.D, N.Y. Univ, 59; cert, Indust. Col. Armed Forces, 65. From lectr. to asst. prof. econ, COL. BUS. ADMIN, ST. JOHN'S (N.Y), 50-59, assoc. prof. econ. & chmn. dept, 59-62, PROF. ECON, 62-, DEAN, 63-, asst. dean & dir. grad. div, 60-63. Economist, joint legis. cmt. banking law, N.Y. Legis, 65- Ed. consult, Univac Div, Sperry Rand Corp, 62-63; Tri-County Long Island Labor-Mgt. Inst, 63- Mem, Bourough President's Planning Cmt, Queens County, New York, 64- Econ. Asn; Finance Asn; Econ. Hist. Asn. History of economic thought. Publ: Co-auth, Business fluctuations, growth, and economic stabilization: a reader, 63 & auth, The new economics of national defense, 66, Random; co-auth, Professional education for business, St. John's Univ, 64. Address: Dept. of Economics, College of Business Administration, St. John's University, Grand Central & Utopia Pkwy, Jamaica, N.Y. 11432.

CLARK, PROF. J(OHN) M(AURICE), Econ, see 9th ed, Soc. & Behav. Vols, deceased 63.

CLARK, DR. JOHN P, b. Freeport, Ohio, Nov. 29, 28; m. 61; c. 3. SOCIOLOGY. B.S, Ohio State, 49, M.S, 57, Ph.D, 60. Instr, Western High Sch, Ohio, 49-51; asst. SOCIOL, Ohio State, 56-59, asst. instr, 59-60; instr, ILLINOIS, 60-61, asst. prof, 61-65, ASSOC. PROF, 65- Sr. Fulbright scholar, Japan, 66-67. Sociol. Asn; Soc. Study Social Probs; Rural Sociol. Soc. Deviant behavior; criminology and juvenile delinquency; analysis of formal organizations; social class; rural-urban social structure comparisons. Publ: Measuring alienation within a social system, Am. Sociol. Rev; co-auth, Socio-economic class and area as correlates of illegal behavior among juveniles, Am. Sociol. Rev, 12/62; auth, The isolation of the police, J. Criminal Law, Criminol. & Police Sci, 9/65. Address: Dept. of Sociology, Lincoln Hall, University of Illinois, Urbana, Ill. 61801.

CLARK, PROF. JOHN WILEY, Indust. Mgt, see 10th ed, Soc. & Behav. Vols.

CLARK, JOHN WILLIAM, S.J, b. Los Angeles, Calif, July 1, 25. BUSINESS ADMINISTRATION, MANAGEMENT. B.A, Gonzaga, 51, M.A, 55; M.S.T, Santa Clara, 60; Ford Found. fel, California, Los Angeles, 62-63, Ph.D.(bus. admin), 65. Instr. soc. sci, high sch, Calif, 52-55; econ, Univ. San Francisco, 56; BUS. ADMIN, LOYOLA (CALIF), 64-66, ASST. PROF, 66- Econ-in-Action fel, Case, summer 66; James W. Hill Found. res. grant, 67- Econ. Asn. Values in business, especially relationship between business and religion. Publ: Religion and moral standards of American businessmen, South-West. Bus, 66; The state of input-output analysis, Rev. Soc. Econ, 4/55; Is business socially responsible?, America, 2/64. Address: Dept. of Finance & General Business, Loyola University, Los Angeles, Calif. 90045.

CLARK, DR. J(OSEPH) STANLEY, b. Milburn, Okla, Mar. 30, 06; m. 36; c. 2. POLITICAL SCIENCE. A.B, E.Cent. State Col, 29; M.A, Oklahoma, 32; Ph.D, Wisconsin, 40. Bus. economist, U.S. Dept. Commerce, 46-47; dir. indust. div, Okla. Planning & Res. Bd, 47-52; CHIEF budget div, Tinker Air Force Base, 52-61; AIR FORCE DEPT, FED. AVIATION AGENCY, 61- Prof, eve. sch, Oklahoma City Univ, 48- Oklahoma and regional history. Publ: Open wider please, the story of dentistry; Oil century; from the Drake Well to the conservation era; Oklahoma events, In: Americana Encyclop. Address: 3828 N.W. 24th St, Oklahoma City, Okla. 73107.

CLARK, PROF. KENNETH B(ANCROFT), b. Panama, Cent. Am, July 24, 14; nat; m. 38; c. 2. PSYCHOLOGY. A.B, Howard, 35, M.S, 36; Ph.D.(psychol), Columbia, 40. Asst. prof. psychol, Hampton Inst, 40-41; asst. soc. sci. analyst, Off. War Info, D.C, 41-42; instr. SOC. PSYCHOL, CITY COL. NEW YORK, 42-49, from asst. prof. to PROF, 49-; CHIEF PSYCHOLOGIST, NORTHSIDE CENTER CHILD DEVELOP, 46- Rosenwald fel, 40-41; res. dir, Northside Center Child Develop, 46-66; pres, Metrop. Appl. Res. Center, Inc, 67- Mem, Nat. Cmt. Ment. Health. Psychol. Asn. Child, social and clinical psychology. Address: 17 Pinecrest Dr, Hastings-on-Hudson, N.Y. 10706.

CLARK, DEAN KENNETH E(DWIN), b. New Madison, Ohio, Dec. 18, 14; m. 42; c. 3. PSYCHOLOGY. B.S, Ohio State, 35, A.M, 37, Ph.D.(psychol), 40. Teacher, schs, Ohio, 35-37; asst. psychol, Ohio State, 37-40; instr, Minnesota, 40-42; personnel technician, basic training center, U.S. Air Force, Atlantic City, N.J, 42-43; personnel res. sect, Adj. Gen. Off, N.Y, 43-44; asst. prof. psychol, Minnesota, 46-49, assoc. prof, 49-55, prof, 55-60, assoc. dean grad. sch, 60; PROF. PSYCHOL. & DEAN COL. ARTS & SCI, Colorado, 61-63; ROCHESTER, 63- Pres, Am. Bd. Exam. Prfnl. Psychol, 59-63; mem, Army Sci. Adv. Panel, 66- U.S.N, 44-46. AAAS; Fel. Psychol. Asn. (ed, J. Appl. Psychol, 61-); Statist. Asn. Attitude and opinion measurement; measurement of interest patterns; prediction of vocational success. Address: 302 Morey Hall, University of Rochester, Rochester, N.Y. 14627.

CLARK, DR. MAMIE P(HIPPS), b. Hot Springs, Ark, Oct. 18, 17; m. 38; c. 2. PSYCHOLOGY. B.S, Howard, 38, M.S, 39; Rosenwald fel, Columbia, 40-43, Ph.D, 43. Res. psychologist, Am. Pub. Health Serv, 44-45; U.S. Armed Forces Inst, 45-46; EXEC. DIR, NORTHSIDE CENTER CHILD DEVELOP, 46- Vis. prof, Yeshiva, 58-60. Consult, Riverdale Children's Asn, 45-46. Psychol. Asn; fel. Orthopsychiat. Asn. Development of personality of Negro children. Publ: Co-auth, Segregation as a factor in the racial identification of Negro pre-school children, J. Exp. Ed; Skin color as a factor in racial identification of Negro pre-school children, J.Soc. Psychol; auth, Changes in primary mental abilities with age, Arch. Psychol. Address: Northside Center for Child Development, 31 W. 110th St, New York, N.Y. 10706.

CLARK, DR. M(ARY) MARGARET, b. Amarillo, Tex, Jan. 9, 25. CULTURAL ANTHROPOLOGY. B.S, Southern Methodist, 45; Texas, 45-48; Ph.D. (anthrop), California, 57. Res. anthropologist, U.S. Pub. Health Serv, D.C, 57-58; field anthropologist & lectr. pub. health, sch. pub. health, California, 58-59; RES. ANTHROPOLOGIST, LANGLEY PORTER NEUROPSYCHIAT. INST, 60-; LECTR. PSYCHIAT, SCH. MED, CALIFORNIA, SAN FRANCISCO, 66- Lectr, San Francisco State Col, 67; vis. prof, California, Berkeley, 67-68; prin. investr, Nat. Inst. Child Health & Human Develop. res. grant, 67- AAAS; fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; fel. Geront. Soc. Applied anthropology in medicine and public health; social gerontology and psychiatry; culture and personality of adult life. Publ: Co-auth, Culture and aging, C.C. Thomas, 67; auth, Health in the Mexican-American culture; The anthropology of aging, Gerontologist, 67. Address: Langley Porter Neuropsychiatric Institute, 401 Parnassus Ave, San Francisco, Calif. 94122.

CLARK, PROF. MATTHEW J(OSEPH), b. Port Allen, La, July 5, 04; m. 34. AGRICULTURAL EDUCATION. B.S, Hampton Inst, 29; fel, Iowa State Col, 33-34, M.S, 34. Instr. voc. agr. & poultry husb, SOUTHERN UNIV, 29-30, hort. & agr. ed, 30-31, asst. prof. agr. ed, 31-34, head teacher trainer, 38-48, supvr. voc. agr. ed, Negro schs, 48-50, ASST. PROF. & STATE TEACHER TRAINER AGR. ED, 50- Collab, Agr. Adjust. Agency, 44; state interviewer, Prod. War Training, 44-45. Distinguished serv. award, south. region conf, Dept. Health, Ed. & Welfare, 64;voc. agr. youth orgn, Future Farmers Am, 66. Voc. Asn.(distinguished serv. award, 62). Historical analysis of development of public school agriculture for Negroes in Louisiana. Publ: Historical chronology: new farmers of America record-Louisi-

ana association, 1935-65, 8/67. Address: Dept. of Agricultural Education, Southern University, Box 9901, Southern Branch, Baton Rouge, La. 70813.

CLARK, PROF. M(ILLS) GARDNER, b. Chillicothe, Ohio, Sept. 21, 17. ECONOMICS. A.B, Harvard, 39, A.M, 48, Ph.D, 50; A.M, Minnesota, 41. Asst. prof. ECON, STATE UNIV. N.Y. SCH. INDUST. & LABOR RELS, CORNELL, 48-51, assoc. prof, 51-57, PROF, 57- Fulbright res. scholar, Italy; Guggenheim fel; Soc. Sci. Res. Coun. fel. Economics of the soviet iron and steel industry; Italian labor problems. Address: New York State School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

CLARK, (WILLIAM) NOBLE, b. Lake Preston, S.Dak, Sept. 18, 91; m. 18; c. 3. AGRICULTURAL ECONOMICS. B.S, Wisconsin, 15, M.S, 30. Asst. to dean col. agr, WISCONSIN, 27-30, asst. dir. AGR. EXP. STA, 30-38, assoc. dir, 38-62, EMER. ASSOC. DIR, 62- Regional dir. land policy sect, U.S. Dept. Agr, 34. Chmn, mission to Poland, Food & Agr. Orgn, 47, dep. dir. gen, 48. Mem, President's Cmn. Migratory Labor, 50-51. AAAS; Agr. Econ. Asn; hon. mem. Soil Conserv. Soc. Administration of agricultural research, especially land economics. Address: Agricultural Experiment Station, University of Wisconsin, Madison, Wis. 53706.

CLARK, PROF. OTHA LIONEL, Middle East & European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLARK, PROF. PAUL G(ORDON), b. Chicago, Ill, Oct. 26, 22; m. 43; c. 4. ECONOMICS. A.B, Colorado, 43; Ph.D.(econ), Harvard, 50. Asst. prof. econ, Williams Col, 49-55, assoc. prof, 55-60, prof, 60-68, chmn. center develop. econ, 65-68; ASST. ADMINSTR, U.S. AGENCY INT. DEVELOP, 68- Inter-indust. economist, U.S. Bur. Mines, 51; dep. chief prog. div, Mutual Security Agency Mission, Rome, 51-53; economist, Rand Corp, 57-59; dir. econ. res, Makerere Univ. Col, Uganda, 63-65. U.S.N, 43-46. Econ. Asn; Economet. Soc. Economic development and growth; interindustry economics; aggregative economic analysis. Publ: Interindustry economics, 59; co-auth, Casebook in development programming, Williams Col, 62; auth, Development planning in East Africa, E.African Pub, 65. Address: 6613 Virginia View Court, Washington, D.C. 20016.

CLARK, DR. PEARL E(LIZABETH), b. Great Falls, Mont, Sept. 17, 96. SOCIOLOGY. A.B, Montana, 16, A.M, 17; Ph.D, Southern California, 43. Teacher, high sch, Mont, 17, 20; Calif, 20-22; dean women, Chaffey Col, 22-60, students, 60-62; head dept. soc. sci, Upland Col, 63-65; TEACHER, ST. MICHAEL'S SEM, 66- Reasons for dropouts among college women; social unadjustment problems of junior college girls. Publ: Unadjustment and reading problems. Address: 110 R Via Estrada, Laguna Hills, Calif. 92653.

CLARK, DR. ROBERT, Exp. Psychol, Psychopharm, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

CLARK, PROF. ROBERT C(ROWTHERS), JR, b. Ashland, Ohio, Oct. 1, 12; m. 37; c. 3. RURAL SOCIOLOGY. B.S, Ohio State, 36, M.S, 38; Ph.D.(rural sociol), Iowa State, 50. Exten. rural sociologist, Ohio State, 36-38; asst. prof. econ. & sociol, Iowa State, 38-43; assoc. prof. RURAL SOCIOL, Cornell, 47-50; PROF, WISCONSIN, MADISON, 50-, asst. dir. agr. exten. serv, 50-55, dir. Nat. Agr. Exten. Center Adv. Study, 55-67. Dept. head exten. ed, U.S. Agency Int. Develop-Univ. Wisconsin Proj, Univ. Ife, Nigeria, 65-67. Consult, Am. Youth Cmn, Am. Coun. Ed, 40-42; Int. Coop. Admin, Jamaica, 61-62. U.S.N, 43-46, Comdr. Sociol. Asn; Rural Sociol. Soc; Acad. Polit. & Soc. Sci. Organization and administration of agricultural extension programs; role of adult leaders in volunteer programs; human development and relations. Publ: Co-auth, The cooperative extension service, Prentice-Hall, 66; auth, Administration in extension, Univ. Wis. Bull; co-auth, Role of the county extension director, Univ. Wis. Exp. Sta. Bull, 65. Address: Dept. of Rural Sociology, University of Wisconsin College of Agriculture, Madison, Wis. 53706.

CLARK, PROF. ROBERT E(UGENE), b. Litchfield, Ohio, May 16, 12; m. 40; c. 2. SOCIOLOGY. A.B, Akron, 35; A.M, Chicago, 39, Ph.D, 47. Actuary sociologist, State Penitentiary, Pontiac, Ill, 38-40, Joliet, 41-43; from asst. prof. to PROF. SOCIOL, PA. STATE, 47- U.S.N, 43-46, Lt. Comdr. Sociol. Asn; Statist. Asn. Relationship of schizophrenia to occupational income and occupational prestige; psychoses, income and occupational prestige. Publ: Co-ed, Criminology - a book of readings. Address: 534 Waring Ave, State College, Pa. 16801.

CLARK, PROF. ROBERT LEWIS, b. McGregor, Tex, Feb. 27, 15; m. 43; c. 2. POLITICAL SCIENCE. B.A, Lincoln (Mo), 37; M.A, Illinois, 38, 40-41, Gen. Ed. Bd. fel, 50-51. Asst. prof. & dean men, Philander Smith Col, 38-40; vis. prof, Lincoln (Mo), 41; ed. specialist, Vet. Admin, 46-48; ASSOC. PROF. POLIT. SCI, W.VA. STATE COL, 48-, CHMN. DEPT. HIST. & POLIT. SCI. & CHMN. DIV. SOC. SCI. & PHILOS, 61- U.S.A.A.F, 42-45, Lt. Polit. Sci. Asn. State administrative control over municipally owned utilities; congress and false advertising regulations. Address: Dept. of History & Political Science, West Virginia State College, Institute, W.Va. 25112.

CLARK, DR. RODNEY ABBOTT, b. Clinton, Mass, Aug. 18, 19; m. 43; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Southwestern (Tex), 42; M.A, Houston, 47; Ph.D,(ed. psychol, human develop), Texas, 52. Dir. guid. & co-ordinator in-serv. ed, Consol. Sch. Dist, Ind, 45-50; lectr. child develop, Texas, 50-51; res. assoc, HumRRO, George Washington, 52-56; assoc. prof. ed, San Francisco State Col, 56-66, prof, 66-67. Psychol. Asn. Leadership; group effectiveness; human learning; mental health; adolescence; inner city schools. Publ: Co-auth, Evaluation as feed-back and guide, Asn. Supv. & Curriculum Develop, 67. Address: 836 Dell Rd, Pacifica, Calif. 94044.

CLARK, DR. R(UDOLPH) ERNEST, b. Springfield, Mass, Feb. 2, 31; m. 54; c. 2. EXPERIMENTAL PSYCHOLOGY, STATISTICS. B.A, New Hampshire, 55, M.A. & Ph.D, Iowa, 58. Res. psychologist, psychol. br, environ. protection res. div, qm. res. & eng. center, U.S. Dept. Army, Mass, 58-59, res. psychologist, 61, behav. sci. br, climatic med. div, res. inst. environ. med, 61-64, dir. human factors div, 64-66; ASSOC. PROF. psychol, Northeastern, 66-67; PSYCHOL. & STATIST, SCH. DENT. MED, TUFTS, 67 Lectr. grad. studies, Northeastern, 61- Consult, Natick Pub. Schs, Mass, 60-68; Astra Pharmaceut. Prod. Corp, 67-68. Med.Serv.C, 59-61, 1st Lt. AAAS; Soc. Psychophysiol. Res; Statist. Asn; Psychonomic Soc. Psychophysiology of stress and emotion; environmental psychophysiology; perception; theory in biostatistics. Publ: Role of drive in complex learning: an emphasis on prelearning phenomena, J. Exp. Psychol; co-auth, Manual performance as a function of rate of change in hand skin temperature, J. Appl. Physiol. & On the redintegrative perception of words, Am. J. Psychol. Address: Dept. of Social Dentistry, Tufts University School of Dental Medicine, 136 Harrison Ave, Boston, Mass. 02115.

CLARK, DR. RUTH MARIE, b. U.S, July 31, 10. PSYCHOLOGY. B.S, Columbia, 33; M.A, N.Y. Univ, 50, Ph.D.(psychol), 57. Ed, Talk Mag, Nat. Hosp. Speech Disorders, New York, N.Y, 39-57, asst. adminstr, 42-48, re-ed. dir, 48-58, consult. child psychol. & speech path, 59-64. Dir. spec. servs, Community Sch. of Tennafly, N.J, 58-64; private practice, 57- Consult, Trinity Parish Counseling Serv, N.Y, 60-64. Psychol. Asn; Speech & Hearing Asn; Asn. Ment. Deficiency. Speech disorders and emotional problems of children; childhood schizophrenia. Publ: Group therapy for parents of pre-adolescent stutters, Group Psychother; Child with unsuspected brain injury, Logos; Language disturbances in childhood schizophrenia, In: Psychological and psychiatric aspects of speech and hearing. Address: 316 S.E, 157th Ave, Portland, Ore. 97233.

CLARK, PROF. RUTH M(ILLBURN), b. Price, Utah, June 12, 00; m. 21; c. 2. PSYCHOLOGY, SPEECH PATHOLOGY. A.B, Utah, 21, M.A, 35, Ph.D. (speech path), Southern California, 43; summer scholar, Northwestern, Utah, Hill-Young Sch. Speech, California & Southern California. Private practice, 37-45; from asst. prof. to PROF. SPEECH PATH, DENVER, 45-, dir. speech clin, 45-65. Psychol. Asn; Speech & Hearing Asn. Personality diagnosis through projection tests; thematic apperception; materials to use with stutterers and articulation cases; thinking age of children and self concept. Publ: The Clark picture phonetic inventory; Brain damage in children, J. South. African Logopedic Soc; co-auth, Electroencephalograms of children with speech disorders, South. Med. J. Address: 799 Dahlia St, Apt. 606, Denver, Colo. 80220.

CLARK, PROF. S(AMUEL) D(ELBERT), b. Lloydminster, Alta, Feb. 24, 10; m. 39; c. 3. SOCIOLOGY. B.A, Saskatchewan, 30, M.A, 31; M.A, McGill, 35; Ph.D.(polit. sci), Toronto, 37. Lectr. SOCIOL, Manitoba, 37-38; TORONTO, 38-44, asst. prof, 44-48, assoc. prof, 48-53, PROF, 53- Guggenheim fel, 43-44; vis. prof, California, 60-61. Mem, Soc. Sci. Res. Coun. Can. Sociol. Asn; fel, Royal Soc. Can; Can. Polit. Sci. Asn.(pres, 58-59). Changing structure of the Canadian community. Publ: Church and sect in Canada; Movements of political protest in Canada; The suburban society. Address: Dept. of Sociology, University of Toronto, 563 Spadina Ave, Toronto 5, Ont, Can.

CLARK, PROF. SAMUEL INGALLS, b. Oak Park, Ill, June 3, 23. POLITICAL SCIENCE. B.A, Chicago, 43, Ph.D.(polit. sci), 49. Asst. prof. POLIT. SCI, WESTERN MICHIGAN, 48-51, assoc. prof, 51-60, PROF, 60-, DIR. HONORS, HONORS COL, 62-, acting dir. inst. regional studies, 61-62. Fulbright fel, Louvain, 50-51; Ford Found. for. training fel, India, 57-58; Fulbright lectr, Japan, 61. U.S.A, 44. Polit. Sci. Asn; Asn. Asian Studies. Political philosophy; American government; social psychology. Publ: Co-auth, Man and society, an introduction to social science; auth, Religion in public education, Bull. Am. Asn. Univ. Prof; Is India neutral, West. Mich. Univ. News Mag. Address: 1819 Greenlawn, Kalamazoo, Mich. 49007.

CLARK, DR. SHIRLEY MERRITT, b. Toledo, Ohio, Sept. 19, 36; m. 61; c. 3. SOCIOLOGY. B.A, Bowling Green State, 57, M.A, 58; Ph.D.(sociol), Ohio State, 61. Instr. res. methods, Ohio State, 60-61; ASST. PROF. family sociol, dept. home econ, ILLINOIS, URBANA, 62-65, SOCIOL, 65- Ford fel, 61-62; U.S. Off. Ed. res. grant, 64-66. Sociol. Asn; Nat. Coun. Family Rels; Soc. Study Social Probs. Cross-cultural research on highly educated women; family change; attitudes of adolescents. Publ: Similarities in components of female and male delinquency, Am. Soc. Criminol, 64; co-auth, Of nepotism, marriage, and the pursuit of an academic career, Sociol. of Ed, fall 66 & The woman Ph.D: a recent profile, Soc. Probs, fall 67. Address: Dept. of Sociology, University of Illinois, Urbana, Ill. 61801.

CLARK, DR. STEPHEN C(UTTER), b. Salt Lake City, Utah, Mar. 21, 18; m. 45; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Washington (Seattle), 41, fel, 44-45, M.A, 45; fel, Yale, 46-47, Ph.D.(ed. psychol), 49. Asst. prof. psychol. & chmn. dept, Alfred, 49-51; instr. psychol. & remedial reading, John Muir Col, 51-55; asst. prof. psychol, Los Angeles State Col, 55-58; res. assoc, Calif. Teachers Asn, 58-62, dir. res. info. center, 61-62; dir. admin. res, San Diego City Schs, 62-63; systs. engr, Int. Bus. Mach. Corp, 63-64, STAFF MEM. systs. res. & develop. center, 64-66; DIV. OPERS. ANAL, U.S. OFF. ED, 66- Staff mem. appl. math. div, electro-data div, Burroughs Corp, 57-58, sr. mathematician, 59-60; test officer, Los Angeles State Col, 57-60. U.S.N.R, 42. Fel. AAAS; Psychol. Asn; Psychomet Soc; Personnel & Guid. Asn; Soc. Info. Sci. Organization of information in education, especially information retrieval; statistical techniques, especially as utilized by electronic computers; educational testing and research, particularly evaluation; data processing by computers. Publ: Progress-towards graduation as a criterion of college achievement & Shortcut calculation to tetrachoric coefficient of correlation, Am. Psychologist; contrib, Achieving democratic citizenship, Col. & Life. Address: Division of Operations Analysis, U.S. Office of Education, Washington, D.C. 20202.

CLARK, DR. SUSAN GRAUL, b. Lancaster, Pa, Mar. 5, 39; m. 62; c. 1. POLITICAL SCIENCE, SOCIOLOGY. B.A, Indiana, 61, M.A, 64, Ph.D.(polit. sci), 66. Instr. polit. sci, Enterprise State Col, 65-66; LECTR. SOCIOL, GEORGETOWN, 67- Polit. Sci. Asn. Political behavior; methodology. Address: 7111 Oak Ridge Rd, Falls Church, Va. 22042.

CLARK, DR. TERRY NICHOLS, b. Chicago, Ill, Nov. 26, 40; m. 63. SOCIOLOGY. B.A, Bowdoin Col, 62; M.A, Columbia, 65, Ph.D.(sociol), 67. Assoc. SOCIOL, Columbia, 65, instr, 65-66; ASST. PROF, CHICAGO, 66- Chmn, Cmt. Comparability Community Res, 64- Sociol Asn; Polit. Sci. Asn;

Statist. Asn. Social stratification; community decision-making; comparative university organization; general sociological theory; history of sociology. Publ: Co-auth, Community structure and decision-making: comparative analyses, Chandler Pub, 68; auth. & ed, Gabriel Tarde, Univ. Chicago, (in press); auth, Social research in France, 1850-1914 (in prep). Address: Dept. of Sociology, University of Chicago, Chicago, Ill. 60637.

CLARK, PROF. THOMAS ARTHUR, b. Greenville, S.C, Nov. 24, 05. GEOGRAPHY. B.S, City Col. New York, 36, M.S, 45; A.M, Columbia, 45. Playground dir, Dept. Parks, New York, 31-33; marine captain, Erie R.R, 43-45; PROF. SOC. STUDIES, FACULTY ADV. STUDENTS & MEM. GRAD. BD, A&T STATE, 45- Summers, leader grad. tour comp. ed, P.R, Dominican Repub, Haiti & B.W.I, 57; Nat. Sci. Found. fel, Western Michigan, 59. Asn. Am. Geog; Nat. Coun. Geog. Ed. Human settlement in rural areas; teachers attitudes toward students; human ecology of the southern Appalachia; geography of the south. Publ: Geo-political interpretation of African nationalism. Address: 812 English St, Greensboro, N.C. 27405.

CLARK, DR. VIRGINIA, b. Grand Rapids, Mich, Nov. 18, 28; m. 53. BIOSTATISTICS. B.A, Michigan, 50, M.A, 51; Ph.D.(biostatist), California, Los Angeles, 63. Statistician, Gen. Elec. Co, 51-54; appl. mathematician, econ. res. proj, Harvard, 54-56, res. assoc. biostatist, med. sch, 60-61; statistician, Systs. Lab. Corp, 56-57; ASST. PROF. BIOSTATIST, CALIFORNIA, LOS ANGELES, 63- Inst. Math. Statist; Biomet. Soc; Statist. Asn. Publ: Co-auth, Preparation for basic statistics, McGraw, 68 & Properties of the median and other order statistics of logistic variables, Ann. Math. Statist, 65; auth, Choice of levels in polynomial regression with one or two variables, Technometrics, 65. Address: Dept. of Biostatistics, University of California, Los Angeles, Calif. 90024.

CLARK, DR. WALTER HOUSTON, b. Westfield, N.J, July 15, 02; m. 30; c. 2. PSYCHOLOGY. A.B, Williams Col.(Mass), 25; A.M, Harvard, 26, Ed.M, 35, Ph.D.(ed, psychol), 44. From master Eng. to acting headmaster, Lenox Sch, Mass, 26-45; instr. psychol, Bowdoin Col, 45-47; assoc. prof. psychol. & ed, Middlebury Col, 47-51; psychol, sch. relig. ed, Hartford Sem. Found, 51, prof, 51-62, dean sch, 52-61; prof. psychol. of relig, Andover Newton Theol. Sch, 62-67; vis. prof, Tufts, 67-68. Vis. prof, Denver, 48-49; Hartt Col, 49-51; Wesleyan, 52-53. Fel. AAAS; fel. Psychol. Asn; Soc. Sci. Study Relig.(past pres). Personality; social psychology; religions and therapeutic aspects of psychedelic drugs. Publ: The Oxford group; The psychology of religion. Address: 750 Commonwealth Ave, Newton Centre, Mass. 02159.

CLARK, DR. WARREN JAMES, Psychol, Speech Path, see 10th ed, Soc. & Behav. Vols.

CLARK, PROF. WAYNE W(ALTER), b. Provo, Utah, Jan. 18, 25; m. 51; c. 7. ECONOMICS. A.B, Brigham Young, 52; California, 52-55; Ph.D, Agr. & Mech. Col, Tex, 60. Asst. agr. econ, California, 52-53; asst. prof, Agr. & Mech. Col, Tex, 55-59; ECON, Sam Houston State Teachers Col, 59-60, assoc. prof, 60-62; BRIGHAM YOUNG, 62-66, PROF. & CHMN. DEPT, 66- U.S.A, 45-46. Econ. Asn; Agr. Econ. Asn. Teaching in general economics; intermediate economic theory and history of economic thought. Publ: Marketing East Texas fruits and vegetables; Costs and returns of growing and marketing pink and green-wrap tomatoes, northeast sandy lands area; Improved grades and consumer demand for in-shell pecans. Address: Dept. of Economics, 302JKB, Brigham Young University, Provo, Utah 84601.

CLARK, DEAN WESLEY C, b. Cleveland, Ohio, Sept. 17, 07; m. 31; c. 2. COMMUNICATIONS, POLITICAL SCIENCE. A.B, Marietta Col, 30; M.A, Pennsylvania, 37, Ph.D.(polit. sci), 41. Reporter, Marietta, Ohio Times, 30-31; Phila. Eve. Bull, 31-37; instr. polit. sci, Pennsylvania, 37-41; asst. prof. journalism, Syracuse, 41-43; asst. to secy. interior, U.S. Dept. Interior, 43-45; PROF. COMMUN, SYRACUSE, 47-, DEAN SCH. JOURNALISM, 52-, asst. to chancellor, 47-48. Asst. to H.L. Ickes, former secy. interior, writer & consult, 43-47; lectr, U.S. State Dept, 60. Consult, Caribbean Cmn, 50. Ed, Onondaga County Med. Bull, 41-43; pres, Syracuse Univ. Press, 54-55; secy-treas, Skaneateles Press, 62. Mem, Governor's Cmt. Disfranchisement, Pa, 36. Polit. Sci. Asn; Asn. Ed. Journalism (v.pres, 65); Acad. Polit. & Soc. Sci. Publ: Economic aspects of a President's popularity, Lancaster, 42; co-auth, Journalism tomorrow, Syracuse Univ, 57; auth, El Derecho a la Información, Int. Center Adv. Studies Journalism, Latin Am, Ecuador, 65. Address: School of Journalism, Syracuse University, Syracuse, N.Y. 13210.

CLARK, DR. WESTON R, Psychol, see 10th ed, Soc. & Behav. Vols.

CLARK, DR. W(ILDER) CRAWFORD, b. South Porcupine, Ont, Oct. 15, 26. EXPERIMENTAL PSYCHOLOGY. B.A, Queen's (Ont), 48 & 52, M.A, 53; fel, Michigan, 56-58, Ph.D, 58. Anal. chemist, Atomic Energy Cmn. Can, Ltd, 48-50; asst. psychol, Queen's (Ont), 51-53; vision res. labs, Michigan, 53-58, instr, 58-59; sr. res. assoc. human eng, Courtney & Co, 59-60; SR. RES. SCIENTIST PSYCHOL, N.Y. STATE PSYCHIAT. INST, 60-; INSTR. PSYCHIAT, COL. PHYSICIANS & SURG, COLUMBIA, 60-, res. assoc, 67- Lectr. City Col. New York, 63- AAAS; Am. Psychol. Asn; Psychonomics Soc; Can. Psychol. Asn. Psycho-physiology of sensation and learning; perceptual distortions in psychiatric patients; sensory-decision theory; verbal and autonomic responses to painful stimuli. Publ: Co-auth, Visual detection threshold for single and double light pulses and the temporal element contribution hypothesis; auth, The psyche in psychophysics: a sensory-decision theory analysis of the effect of instructions on flicker sensitivity and response bias, Psychol. Bull, 66; A sensory decision analysis of the placebo effect on the criterion for pain and thermal sensitivity (d'), J. Abnorm. Psychol, 68. Address: Dept. of Research Psychology, New York State Psychiatric Institute, 722 W. 168th St, New York, N.Y. 10032.

CLARK, WILLIAM A(LLAN), b. St. Louis, Mo, May 22, 19; m. 43; c. 6. ECONOMICS, FINANCE. B.S, St. Louis, 41; M.B.A, Washington (St. Louis), 56. Res. & develop. chemist, MONSANTO CO, 46-52, bus res. analyst, 52-54, sr. mkt. res. analyst, 54-57, mgr. advert. res, 58-59, econ. res, 60, corp. planning economist, 61-62, mgr. appl. math, 62-63, mgr. MKT. RES, 63-66, DIR, 66- Mem. coun. mkt. res. dirs, Nat. Indust. Conf. Bd, 67-70. U.S.N, 42-45, Lt. Statist. Asn; Chem. Soc; fel. Asn. Bus. Econ; Mkt. Asn. Inventory and pricing strategy; linear programming; financial control systems. Publ: Computer technology in marketing management, Int. Correspondence Schs, (in press); Operations research, Petrol. Engr; The human side of computerized forecasting, Am. Chem. Soc, 3/66. Address: Monsanto Co, 800 N. Lindbergh Blvd, St. Louis, Mo. 63166.

CLARK, DR. WILLIAM DOUGLAS, b. Scotland, Ark, Sept. 9, 27; m. 50; c. 2. TRANSPORTATION. MANAGEMENT. B.S.B.A, Arkansas, 57, M.B.A, 62, Ph.D.(bus), 66. Dist. sales mgr, Jones Truck Lines, Inc, Ark, 57-58, terminal opers. mgr, 58-60; instr, Arkansas, 60-64; ASST. PROF. MGT. & TRANSPORTATION, AUBURN, 64- Mgt. consult, munic. govt. training prog, Alabama & Auburn Exten. Serv, 66-; small bus. prog, Auburn Bus. Exten. Serv, 66- U.S.N, 45-46; Capt, U.S.A.F, 48-55. Causes and prevention of motor carrier loss and damage claims. Publ: Businessman's claim guide, Alabama Coop. Exten. Serv, 68; Freight loss and damage claims, Bus. Bull. Auburn, 67. Address: Auburn University School of Business, Auburn, Ala. 36830.

CLARK, DR. WILLIAM HARTLEY, b. Pittsburgh, Pa, Apr. 29, 30; m. 53; c. 4. INTERNATIONAL RELATIONS. B.A, Carleton Col, 52; M.A, N.Y. Univ, 55, Ph.D.(govt), 60. Asst. UN affairs, Carnegie Endowment Int. Peace, 53; Brookings Inst, 53-54; N.Y. Univ, 54; acting assoc. prof. polit. sci, West. Col, 54-55; instr. GOVT. & INT. RELS, CARLETON COL, 55-60, asst. prof, 60-66, ASSOC. PROF, 66- Fulbright res. fel. int. rels, Belgium, 61-62; Assoc. Cols. Midwest for. res. grant, 67. Polit. Sci. Asn. General international organization; United Nations political affairs; European international economic organization. Publ: The politics of the Common Market, Prentice-Hall, 67; Issues before the eighth General Assembly, Int. Conciliation; Materials for undergraduate study of the United Nations, Am. Polit. Sci. Rev. Address: 216 Nevada St, Northfield, Minn. 55057.

CLARK, DR. WILLIS W(INFIELD), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

CLARKE, DR. CARL T(ELLES), b. Monroe, La, Feb. 16, 30; m. 51; c. 5. PSYCHOLOGY. B.A, Atlantic Christian Col, 52; M.A, Hawaii, 59; Ph.D.(psychol), Florida, 65. Minister, Kaimuk Christian Church, Hawaii, 53-59; ASSOC. CLIN. PSYCHOLOGIST, STUDENT MENT. HEALTH PROJ, FLORIDA, 65- Psychol. Asn: Nat. Coun. Family Rels. Religion; self theory; marriage; psychotherapy; community mental health. Address: Student Mental Health Project, Infirmary, University of Florida, Gainesville, Fla. 32601.

CLARKE, PROF. DAVID A, JR, b. Milford, Conn, Feb. 26, 19; m. 42; c. 4. AGRICULTURAL ECONOMICS. B.S, Connecticut, 40, M.S, 42; Ph.D.(agr. econ), California, 51. Instr. AGR. ECON, Connecticut, 42-44; asst. specialist, CALIFORNIA, BERKELEY, 46-51, asst. prof, 51-54, assoc. prof, 54-60, PROF, 60-, CHMN. DEPT. & DIR. GIANNINI FOUND. AGR. ECON, 68- Mem, U.S. Secy. Agr. Freeman's Fed. Milk Order Study Cmt, 61. Award, Am. Farm Econ. Asn, 57. U.S.A, 44-46, 1st Lt. Physical and pricing efficiency in the marketing of agricultural commodities, especially milk; government regulation of agricultural industries; market structure, behavior and performance; economic theory. Publ: Milk delivery costs and volume pricing procedures in California; Fluid milk price control in California; co-auth, Class III milk in the New York milkshed. Address: Dept. of Agricultural Economics, University of California, Berkeley, Calif. 94720.

CLARKE, PROF. EDWIN C(AMERON), b. Beaver Falls, Pa, Oct. 30, 13; m. 44; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Geneva Col, 35; Princeton, 35-37; Colorado, 38; Ph.D, Pittsburgh, 49. Instr. ECON. & BUS. ADMIN, GENEVA COL, 37-41, asst. prof, 46-47, assoc. prof. & acting head dept, 47-49, PROF. & HEAD DEPT, 49-, PRES, 56-, v.pres, 50-56. Asst. prof, Pittsburgh, 46-47. U.S.A, 41-46, 1st Lt. Econ. Asn. National collective bargaining in the pottery industry since the advent of the National Industrial Recovery Act. Address: Dept. of Economics & Business Administration, Geneva College, Beaver Falls, Pa. 15010.

CLARKE, DR. FRANK RUSSELL, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

CLARKE, PROF. HELEN I(SABEL), b. New Haven, Conn, Nov. 13, 94. SOCIOLOGY. A.B, Smith Col, 17; N.Y. Sch. Soc. Work, 17-18; A.M, Chicago, 26. Mem. faculty, WISCONSIN, 20-25, prof. SOC. WORK, 27-65, EMER. PROF, 65- Child placement worker, State Sch. Dependent Children, Wis, 26-27. Mem. gov. cmt. pub. welfare, Wis. Welfare Coun. Social legislation; principles and practice social work; legal documents for social legislation. Address: 21 Glenway St, Madison, Wis. 53705.

CLARKE, DR. H(OWARD) WESTON, JR, Psychol, see 10th ed, Soc. & Behav. Vols.

CLARKE, DR. JAMES F(RANKLIN), European Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLARKE, PROF. JAMES HARRIS, b. Millersburg, Ky, Mar. 30, 13; m. 42; c. 2. AGRICULTURAL & MARKETING ECONOMICS. B.S, Kentucky, 35, M.S, 37; Iowa State, 37-38; fel, Minnesota, 50-51. Asst. agr. mkt, Kentucky, 35-37, asst. in mkt. AGR. ECON, 38-39; asst, Iowa State, 37-38; asst. exten. economist, WEST VIRGINIA, 39-42, asst. prof, UNIV. & asst. agr. economist, EXP. STA, 46-47, assoc. prof. & assoc. agr. economist, 47-60, PROF. & AGR. ECONOMIST, 60- U.S.A, 42-46, Res, 46-, Col. Agr. Econ. Asn. Marketing of dairy products. Publ: Co-auth, Merchandising milk through vending machines, Twice-weekly milk delivery, 6-66, W.Va. Agr. Exp. Sta. & Reducing the frequency of home milk delivery, Maine Agr. Exp. Sta, 8/65. Address: Dept. of Agricultural Economics, West Virginia University, Morgantown, W.Va. 26506.

CLARKE, DR. JAMES WESTON, b. Elizabeth, Pa, Feb. 16, 37; m. 57; c. 1. POLITICAL SCIENCE. B.A, Washington & Jefferson Col, 62; M.A, Pa. State, 64, Nat. Insts. Health fel, 65-67, Ph.D.(polit. sci), 68. ASST. PROF.

POLIT. SCI, FLA. STATE, 67- U.S.M.C, 55-58. Polit. Sci. Asn. Urban political behavior. Address: 1821 Ivan Dr, Tallahassee, Fla. 32306.

CLARKE, PRES. JOHN L, b. American Fork, Utah, May 14, 05; m; c. 3. POLITICAL SCIENCE. A.B, Brigham Young, 31, A.M, 32; California, Los Angeles, 37; Southern California, 44-45, 50. Instr. high sch, Utah, 33, head dept. soc. sci, 33-35; prin, Lovell-Cowley Theol. Sem, 35-36; Moroni Theol. Sem, 36-38; Juab Stake Theol. Sem, 38-39; dir, Latter-day Saints Inst. Relig, Ariz, 39-42, Utah, 42-44; PRES, RICKS COL, 44- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Political theory; consititutional doctrine of Mr. Justice George Sutherland. Publ: International relations; Comparative government. Address: Ricks College, Rexburg, Idaho 83440.

CLARKE, PROF. MARY G(ILL), b. Laurinburg, N.C, May 17, 18; wid. PSYCHOLOGY. A.B, Woman's Col, North Carolina, 40; M.A, Minnesota, 43; Ph.D.(psychol), Duke, 54. Psychologist, Worcester State Hosp, Mass, 42-44; chief clin. psychologist, Med. Col. of Va, 44-47; clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Richmond, Va, 47-50; psychol. intern, univ. hosp, Duke, 51-52; clin. psychol. trainee, Vet. Admin. Hosp, Roanoke, Va, 52-53, clin. psychologist, Durham, N.C, 54-56; asst. prof. PSYCHIAT. & PSYCHOL, NORTH CAROLINA, 56-59, assoc. prof, 59-65, PROF, 65-; DIR. PSYCHOLOGICAL SERV, N.C. MEM. HOSP, 64-, chief psychologist, inpatient serv, 56-63, acting dir. psychological serv, 63-64. Consult, Durham Vet. Admin. Hosp, 57-63. AAAS; Psychol. Asn; Soc. Proj. Tech. Psychotherapy; brain damage; clinical training. Publ: Co-auth, Studies in insulin and metrazol therapy, I & II, J. Personality; Relationship between choice of a major field of study and academic preparation and performance, Ed. & Psychol. Measurement; Etiological factors in peptic ulcer as revealed in group-analytic psychotherapy, Int. Record Med. Address: Timberlake Estates, Rt. 1, Chapel Hill, N.C. 27514.

CLARKE, DR. ROBERT H, b. Mt. Vernon, N.Y, Nov. 23, 36. POLITICAL SCIENCE. B.A, DePauw, 58; Woodrow Wilson fel. & M.A, Princeton, 60, Soc. Sci. Res. Coun. grant & Ph.D.(polit. sci), 65. Asst. prof. POLIT. SCI, Kansas State, 62-65; ASST. PROF. & CHMN. DEPT, CORNELL COL, 65- Summers, consult, U.S. Dept. Agr. & Great Plains Wheat, Inc, 63, N.Y. State Dept. Ed. African seminar grant, Syracuse, 66; U.S. Off. Ed. seminar grant, Africa, 67. Polit. Sci. Asn. Agricultural pressure groups in France and the European Economic Community; comparative peasant politics; labor politics in Ethiopia. Address: Dept. of Political Science, Cornell College, Mt. Vernon, Iowa 52314.

CLARKE, DR. ROBERT J, b. Chicago, Ill. June 4, 29; m. 59; c. 3. POLITICAL SCIENCE. A.B, DePaul, 54; M.A, Notre Dame, 57, Ph.D.(local govt), 65. ASSOC. PROF. POLIT. SCI, AQUINAS COL, 65-, CHMN. DEPT, 60- Nat. Center Ed. in Polit. state & local fel, 65-66. U.S.N, 51-53. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Local government structure and functions; inter-governmental relations at sub-national level, particularly in metropolitan areas; normative theory. Address: Dept. of Political Science, Aquinas College, Grand Rapids, Mich. 49506.

CLARKE, STEPHEN V, b. Washington, D.C, Feb. 16, 19; m. 47; c. 3. ECONOMICS. A.B, Virginia, 41, Du Pont fel, 41-42, A.M, 42; Thayer scholar, Harvard, 42, 43-44, A.M, 46. Economist, Cent. & East. European Unit, Fed. Reserve Bank N.Y, 46-52; intel. res. specialist, Brit. Commonwealth Sect, off. intel. res, U.S. Dept. State, D.C, 52-53; economist, Brit. Commonwealth Unit, FED. RESERVE BANK NEW YORK, 53-59, head, Brit. Commonwealth & Africa Sect, 59-61, SPEC. ASST, RES. DEPT, 62- Econ. Asn. British monetary, fiscal and debt management problems; strengthening the international financial system; United States price outlook; management of the United States economy. Publ: Growth without inflation in Britain; Debt policy and monetary control in Britain; Central Bank cooperation: 1924-31, Fed. Reserve Bank N.Y, 2/67. Address: 63 Myrtle Ave, Montclair, N.J. 07042.

CLARKSON, PROF. GEOFFREY P.E, b. London, Eng, May 30, 34; nat. Can; m. 60. ECONOMICS. B.S, Carnegie Inst. Tech, 58, M.S, 59, Ford Found. fel, 59-61, Ph.D, 61. Asst. prof. econ, sch. indust. mgt, Mass. Inst. Tech, 61-65, assoc. prof, 65-67; PROF. MGT. SCI, MANCHESTER, 67- Soc. Sci. Res. Coun. fel, Princeton, 61-62. Econ. Asn; Philos. Sci. Asn. Mathematical economics; simulation of individual economic behavior. Publ: Portfolio selection, 62 & The theory of consumer demand, 63, Prentice-Hall; Managerial economics, Penquin, 68. Address: Manchester Business School, University of Manchester, Hilton St, Manchester 1, Eng.

CLARKSON, DR. JAMES D(AVID), b. Cincinnati, Ohio, Dec. 18, 32; m. 57; c. 1. GEOGRAPHY. Ford Found. fel, 63-65; Ph.D.(geog), Chicago, 67. Acting asst. prof. geog, univ. & asst. res. geogr, soc. sci. res. inst, Hawaii, 66-67; ASST. PROF. GEOG, UNIV. & STAFF ASSOC, CENTER SOUTH & SOUTHEAST ASIAN STUDIES, MICHIGAN, 67- Assoc. univ. seminars, Columbia, 67-68. Mem. Southeast Asia develop. adv. group, Asia Soc. & Agency Int. Develop, 66-; adv. bd. mil. personnel supplies, Nat. Res. Coun-Nat. Acad. Sci, 67-70. S/Sgt, U.S.A.F, 52-56. Tropical agriculture; Southeast Asia, especially Malaysia; problems of world food supply; cultural ecology. Publ: The cultural ecology of a Chinese village: Cameron Highlands, Malaysia, Dept. Geog. Res. Series 114, Univ. Chicago, 67. Address: 2505 Geddes Ave, Ann Arbor, Mich. 48104.

CLARKSON, DR. STEPHEN H(UGH) E(LLIOTT), b. London, Eng, Oct. 21, 37; Can. citizen; m. 63. POLITICAL SCIENCE. B.A, Toronto, 59, M.A, Oxford, 61; Nat. Found. Polit. Sci. fel. & Dr.(polit. sci), Paris, 64. ASSOC. PROF. POLIT. SCI, TORONTO, 67- Sr. fel, res. inst. communist affairs, Columbia, 67-68. Can. Polit. Sci. Asn.(secy-treas, 66-67). Soviet analysis of political and economic underdevelopment problems; comparative analysis of political systems; problems of Canadian national development. Publ: An independent foreign policy for Canada?, McClelland & Stewart, Toronto, 68. Address: Dept. of Political Economy, University of Toronto, Toronto, Ont, Can.

CLASS, PROF. NORRIS E, b. Chagrin Falls, Ohio, Feb. 20, 06. SOCIAL WELFARE. A.B, Alabama, 28; M.S.S, Western Reserve, 31; Chicago, 49-50; London Sch. Econ, 57. Supvr, Child Welfare Bd, Cuyahoga County, Ohio, 30-35; prof, Oregon, 35-56; dir. child welfare, State Pub. Welfare Cmn, Ore, 36-40; ASSOC. PROF. SOC. WORK & FACULTY ASSOC, YOUTH STUDIES CENTER, SOUTHERN CALIFORNIA, 41- Consult, U.S. Children's Bur, 39, 43; Midcentury White House Conf. Children & Youth, 50. Mem, U.S. Children's Bur. Res. Adv. Group, 62. Child welfare. Address: School of Social Work, University of Southern California, Los Angeles, Calif. 90004.

CLASSEN, PROF. HAROLD A(RTHUR), b. Gilman, Ill, Aug. 15, 21; m. 52; c. 2. GEOGRAPHY. Ph.D.(geog), Nebraska, 55. Asst. GEOG, Nebraska, 47-49, 51-53; instr, Nevada, 49-51; from asst. prof. to PROF, WIS. STATE, LA CROSSE, 54- U.S.A, 42-46. Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic geography; geography of United States and Asia. Address: Dept. of Geography, Wisconsin State University, La Crosse, Wis. 54601.

CLASTER, DR. DANIEL STUART, b. Harrisburg, Pa, Dec. 8, 32; m. 60; c. 1. SOCIAL PSYCHOLOGY. A.B, Yale, 54; Ph.D, Columbia, 61. Asst. child develop, Child Develop. Center, N.Y, 56-58; instr. sociol, Kentucky, 58-63; res. assoc, Hawthorne Cedar Knolls Sch, 63-67; VIS. ASST. PROF. SOCIOL, BROOKLYN, COL, 67- Consult, Inst. Training & Res. Child Ment. Health, 67- Psychol. Asn; Sociol. Asn. Law and social science; friendship formation; personality and social structure; small groups. Publ: Co-auth, Dynamics of residential treatment, Univ. North Carolina, 68 & Social system perspectives in residential treatment, Mich. State Univ, 68; auth, Comparison of risk perception between delinquents and nondelinquents, J. Criminal Law, Criminol. & Police Sci, 67. Address: Dept. of Sociology, Brooklyn College, Brooklyn, N.Y. 11210.

CLATWORTHY, DR. NANCY M(OORE), b. Muncie, Ind, Mar. 17, 24; m; c. 5. SOCIOLOGY, ANTHROPOLOGY. A.B, Smith Col, 45; M.A, Western Reserve, 48; Ph.D, Ohio State, 55. Asst. biol, OHIO STATE, 45-46, ASST. PROF. SOCIOL. & ANTHROP, 60- Res. assoc, State Rehab. Center, Ohio, 61. Mem. adv. bd, Hosp. Fedn, 55-57. Sociol. Asn; Nat. Coun. Family Rels. Post war immigrants; race and ethnic relations; marital, family and social problems; social psychology and values; research methodology; teen-age behavior; psychological behavior of twins. Publ: Co-auth, Marriage has many faces, C.E. Merril, 68; Concensus, study of teen-age behavior; Assimilation and adjustment of post War II immigrants. Address: Dept. of Sociology, Ohio State University, S. Oval Dr, Columbus, Ohio 43210.

CLATWORTHY, DR. WILLARD HUBERT, Statist, see 11th ed, Phys. & Biol. Vols.

CLAUDE, PROF. INIS L(OTHAIR), JR, b. Yellville, Ark, Sept. 3, 22; m. 43; c. 3. POLITICAL SCIENCE. B.A, Hendrix Col, 42; M.A, Harvard, 47, Ph.D.(polit. sci), 49. Instr. govt, Harvard, 49-51, asst. prof, 51-56; assoc. prof, Delaware, 56-57; POLIT. SCI, MICHIGAN, 57-59, PROF, 60- Fund for Adv. Ed. faculty fel, 51-52; vis. res. scholar, Carnegie Endowment for Int. Peace, 60-61; Guggenheim fel. & Fulbright grant, 64-65. Chase prize, Harvard, 49; Woodrow Wilson Found. award, Am. Polit. Sci. Asn, 62. U.S.A, 42-46. Polit. Sci. Asn; Soc. Int. Law. International politics, law and organization. Publ: National minorities, an international problem; Swords into plowshares, the problems and progress of international organization; Power and international relations, Random, 62. Address: Dept. of Political Science, University of Michigan, Ann Arbor, Mich. 48104.

CLAUDE, DR. RICHARD P, b. St. Paul, Minn, May 20, 34; m. 64; c. 2. POLITICAL SCIENCE. B.A, Col. St. Thomas, 56; M.S, Fla. State, 60; Harvard, 62; Thomas Jefferson Found. fel, Virginia, 61-62, Ph.D.(polit. sci), 64. Instr. POLIT. SCI, Vassar Col, 62-64; ASST. PROF, Col. William & Mary, 64-65; MARYLAND, 65- Ford Found. res. grant, 63-64. U.S.A.F.R, Capt. Polit. Sci. Asn. Public law; political theory. Publ: Reapportionment goes to town, Am. City, 5/65; co-auth, A deviant election in a one-party county, Pub. Opinion Quart, summer 65; auth, Constitutional voting rights, J. Negro Hist, 4/66. Address: Dept. of Government & Politics, University of Maryland, College Park, Md. 20742.

CLAUNCH, DR. SIDNEY J(OHNSON), JR, b. Humboldt, Tenn, Apr. 17, 22; m. 54. ECONOMICS. A.B, Ohio, 49; M.A, Wisconsin, 51, Knapp fel, 53-54, Ph.D.(econ), 58. Asst. econ, Wisconsin, 51-53; instr, Nevada, 54-58, asst. prof, 58-61; ASSOC. PROF. MGT, MASSACHUSETTS, 61-, CHMN. DEPT, 65- U.S.A, 43-45. Econ. Asn. Economic theory; urban and production economics. Publ: San Francisco Bay area rapid transit district. Address: Dept. of Management, School of Business Administration, University of Massachusetts, Amherst, Mass. 01003.

CLAUS, DR. CALVIN K(ELLER), b. West Bend, Wis, July 4, 25; m. 48; c. 3. PSYCHOLOGY, EDUCATIONAL PSYCHOLOGY. B.A, Carthage Col, 49; M.S, Illinois, 51; Ph.D.(ed. psychol), Northwestern, 63. Sch. psychologist, pub. schs, Ill, 50-54, psychol. exam, 54-59; asst. ed. psychol, Northwestern, 59-60, summer session faculty, 60; TEACHER PSYCHOL. & ED. MEASUREMENT, NAT. COL. ED, 60-, CHMN. DEPT. PSYCHOL, 66- Psychol. consult, Orchard Sch. Spec. Ed, Skokie, Ill, 59- U.S.A, 43-46. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Human learning using principles of reinforcement; techniques for shaping the behavior of writing educational objectives; techniques for encoding classroom interactions. Publ: A local norm, standard score, profile approach toward making educational measurements more meaningful, 57 & Learning as a function of observing reinforcement of recorded oral-verbal behavior, 63, Am. Psychologist; Some thoughts on thinking, Jr. High Sch. Asn. Ill, 65. Address: Dept. of Psychology, National College of Education, 2840 Sheridan Rd, Evanston, Ill. 60201.

CLAUSEN, DR. JOHN A(DAM), b. New York, N.Y, Dec. 20, 14; m. 39; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. A.B, Cornell, 36, M.A, 39; fel, Chicago, 41, Ph.D.(sociol), 49. Asst. sociol. br, Inst. Juvenile Res, Chicago, 39-41; res. assoc. pop. study, State Planning Bd, Va, 41-42; study dir, res. br. info. & ed. div, U.S. War Dept, 42-46; chief, surv. design sect, off. coord. & planning, Vet. Admin, 46; asst. prof. sociol, Cornell, 46-48; consult. soc. sci. res, Nat. Inst. Ment. Health, 48-51, chief, lab. socio-environ. studies, 51-60; PROF. SOCIOL, CALIFORNIA, BERKELEY, 60-, RES. SOCIOLOGIST, INST. HUMAN DEVELOP, 65-, dir, 60-65. Fel, Center

Adv. Study Behav. Sci, 57-58. Ed, Sociometry, 59-62. Mem, cmt. res. psychiat. & soc. sci, Soc. Sci. Res. Coun, 50-65, chmn. cmt. soc. struct. & socialization, 60-67, mem. bd. dirs, 61-64; mem. ment. health study sect, Nat. Inst. Ment. Health, 53-57, fel. grant selection cmt, 60-64, soc. sci. res. rev. cmt, 67-; cmt. on int. centers, Nat. Insts. Health, 61-63; spec. med. adv. cmt, Vet. Admin, 65-; cmt. abuse stimulant & depressant drugs, Food & Drug Admin, 65-; adv. coun. continuing care serv, Vet. Admin, 67- Sociol. Asn; Soc. Res. Child Develop; Pub. Health Asn; Geront. Soc; Psychopath. Asn. Social epidemiology of mental disease; social structure, socialization and personality development. Publ: Co-auth. & co-ed, Explorations in social psychiatry; Impact of mental illness on the family; co-auth. & ed, Socialization and society, Little, 68. Address: Institute of Human Development, University of California, Berkeley, Calif. 94720.

CLAUSEN, DR. JOHS, Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CLAVEL, DR. PIERRE, b. New York, N.Y, Apr. 23, 35; m. 60; c. 3. CITY & REGIONAL PLANNING. A.B, Haverford Col, 57; M.R.P, North Carolina, 59; Ph.D.(city & regional planning), Cornell, 66. Planning consult, Blair Assocs, R.I, 60-62; ASST. PROF. pub. admin. & planning, Puerto Rico, 65-67; CITY & REGIONAL PLANNING, CORNELL, 67- U.S.A, 59-60 & 61-62. Soc. Pub. Admin; Polit. Sci. Asn; Sociol. Asn. Public administration; social and political conditions under which planning occurs; social and political consequences of planning; planning organization. Publ: Planners and citizen boards: some applications of social theory to the problem of plan implementation, J. Am. Inst. Planners, 5/68. Address: Dept. of City & Regional Planning, Sibley Hall, Cornell University, Ithaca, N.Y. 14850.

CLAWSON, DR. AILEEN A(MBER), b. Wichita, Kans, June 25, 13. CLINICAL PSYCHOLOGY. B.A, Wichita, 47; M.A, California, Los Angeles, 53; Ph.D, Houston, 57. Teacher, WICHITA GUID. CENTER, 47-50, CLIN. PSYCHOLOGIST, 52- Psychol. Asn. Psychological diagnosis and treatment of atypical children, especially those with an emotional disturbance or brain injury. Publ: Bender Visual Motor Gestalt Test as an index of emotional disturbance in children, J. Proj. Tech; Relationship of psychological tests to cerebral disorders in children: a pilot study, Psychol. Report; Bender Visual Motor Gestalt Test for children: a manual. Address: 3422 E. Douglas, Wichita, Kans. 67208.

CLAWSON, DR. C(LAYTON) JOSEPH, b. Indianapolis, Ind, July 4, 16; m. 50; c. 3. ECONOMICS. B.S, Harvard, 41, M.A, 49, Ph.D.(econ), 51; M.A, Southern California, 47. Asst. prof. mkt, sch. bus. admin, California, Los Angeles, 50-57; sr. consult, Alderson Assocs, Inc, 57-58; dir. mkt. res. & consult. serv, Facts Consol, 58-59; sr. economist, Stanford Res. Inst, 59-63; PRES, CLAWSON RES. CORP, 63-; ASSOC. PROF. MKT, GRAD. SCH. BUS. ADMIN. & DIR. TRANSPORTATION RES. CENTER, SOUTHERN CALIFORNIA, 67- Mkt. res. dir, Rexall Drug & Chem. Corp, 52-56. Consult, Packard Bell Electronics, 55-56; res. consult, Hixson & Jorgensen, 56-57. U.S.N, 44-46, Lt.(jg). Econ. Asn; Mkt. Asn. Consumer motivation; long-range corporate planning; marketing theory. Publ: Savings and loan industry in California, Stanford Res. Inst, 60; Family composition, motivation, and buying choices, In: Household decision-making, 62; Coming breakthroughs in motivation research, In: Readings in marketing, 62. Address: 29301 Bluewater Rd, Malibu, Calif. 90265.

CLAWSON, DR. MARION, b. Elko, Nev, Aug. 10, 05; m. 47; c. 4. AGRICULTURAL ECONOMICS, PUBLIC ADMINISTRATION. B.S, Nevada, 26, M.S, 29; Ph.D, Harvard, 43. With Bur. Agr. Econ, 29-46; regional adminstr, Bur. Land Mgt, 47-48, dir. admin, 48-53; sr. adv. econ. planning, Econ. Adv. Staff, 53-55; DIR. LAND USE & MGT, RESOURCES FOR FUTURE, INC, D.C, 55- Consult, Ford Found, 60, 62; Nat. Resources Agency, Calif, 64-65. Agr. Econ. Asn.(v.pres, 47); Soc. Range Mgt; Soc. Int. Develop. (exec. secy, 59-62, v.pres, 63-66). Economics of land use, including agriculture, forestry, grazing, recreation, urban and other land uses. Publ: Co-auth, Soil conservation in perspective, 65, Economics of outdoor recreation, 66 & auth, Policy directions for United States agriculture, 67, Johns Hopkins. Address: 6918 Maple Ave, Chevy Chase, Md. 20015.

CLAY, PROF. COMER, b. Abilene, Tex, Dec. 22, 10; m. 37; c. 1. GOVERNMENT. A.B, Abilene Christian Col, 31; A.M, Texas, 37, Ph.D, 48. Asst. prof. GOVT, TEXAS CHRISTIAN, 48-51, assoc. prof, 51-54, PROF, 54- U.S.A, 42-46, 61-62, Col. Polit. Sci. Asn; Soc. Pub. Admin. Governmental activities in conservation and development of water resources. Publ: Co-auth, Your Texas government & Public administration and policy formation, Address: Dept. of Government, Texas Christian University, University Station, Fort Worth, Tex. 76129.

CLAY, DR. MARGARET L(EONE), b. St. Joseph, Mo, Oct. 23, 23. PSYCHOLOGY. B.S, Michigan, 56, M.S, 58, Ph.D.(psychol), 62; summers, Wisconsin, 62 & Rutgers, 63. Asst. res. psychologist, MICHIGAN, 60-62, assoc. res. psychologist, 62-63, LECTR. PSYCHOL, 63-, ASSOC. RES. PSYCHOLOGIST, MENT. HEALTH RES. INST, 63-, ASST. DIR, 65- Res. consult, Mich. Dept. Pub. Health alcoholism prog, 63- Mem. res. cmt, N.Am. Asn. Alcoholism Progs, 65-, secy, ed. sect, 66-67, res. sect, 67-68. Psychol. Asn; Soc. Study Social Probs. Biochemical basis of learning and memory; planning and development of alcoholism control; etiology of alcoholism; preventive education in social problem control. Publ: Co-auth, Opposites structures, defenses, and attitudes, Psychol. Monogrs, 60 & Effects of meprobamate and prochlorperazine on positive and negative conditioning, J. Abnorm. & Soc. Psychol, 61; auth, Conditions affecting voluntary alcohol consumption in rats, Quart. J. Studies Alcohol, 64. Address: Mental Health Research Institute, University of Michigan, Ann Arbor, Mich. 48104.

CLAYCAMP, DR. HENRY J(OHN), JR. b. Ogallah, Kans, Mar. 12, 31; m. 50; c. 4. ECONOMICS, MARKETING. B.A, Washburn, 56, M.A, Illinois, 57, Ph.D, 61; Ford Found. Dissertation fel, 60-61. Instr. mkt. statist, Washburn, 57-58; asst, bur. econ. & bus. res, Illinois, 58-60, asst. prof. MKT, Mass. Inst. Tech, 61-65; ASSOC. PROF, GRAD. SCH. BUS, STANFORD, 65- Econ. Asn; Mkt. Asn. Publ: Co-auth, Simulation techniques in the analysis of marketing strategy, Wiley, 67; auth, Composition of consumer savings portfolios; Characteristics of thrift deposit owners, J. Mkt. Res, 65. Address: Graduate School of Business, Stanford University, Stanford, Calif. 94305.

CLAYTON, DR. FRANCES L(OUISE), b. Ill, Sept. 10, 26. PSYCHOLOGY. B.A, Indiana, 49; M.S, Brown, 51; Ph.D.(psychol), Minnesota, 54. Instr. PSYCHOL, Minnesota, 54-55; BROWN, 55-58, asst. prof, 58-61, ASSOC. PROF, 61- AAAS; Psychol. Asn. Animal behavior; early experience. Address: Dept. of Psychology, Brown University, Providence, R.I. 02912.

CLAYTON, DR. JOHN E(LMER), b. Forsyth County, Ga, Aug. 6, 19; m. 45; c. 2. TRANSPORTATION ECONOMICS. B.C.S, Georgia, 49, M.B.A, Pennsylvania, 51, Ph.D, 57. Asst. prof. acct, Drexel Inst. Tech, 51-53; instr. transportation acct, Wharton Sch. Finance & Commerce, Pennsylvania, 53-54; assoc. prof. transportation econ, Ga. State Col, 54-57; bus. admin, George Washington, 57-63; CHIEF, TRANSPORTATION RES. BR, AGR. RES. SERV, U.S. DEPT. AGR, 63- Summer instr, Georgia, 50-51. Consult, econ. div, U.S. Army Corps Engrs, 58; under secy. commerce for transportation, U.S. Dept. Commerce, 59-60; Human Sci. Res. Inc, 61; U.S Dept. Justice, 61; Nat. Capital Transportation Agency, 61- Chmn, wealth inventory planning study, George Washington Univ, 63-64; mem. panel, Bd. U.S. Civil Serv. Exam, 65-; working party containers, Nat. Facilitation Cmt, 66-; transportation econ. cmt, hwy. res. bd, Nat. Acad. Sci, 66- U.S.A, 41-45, Sgt. Econ. Asn; Soc. Traffic & Transportation (pres, 66-67); Transportation Res. Forum. Economic criteria in public investment, criteria and data for urban transport decisions; transport policy; economic-engineering efficiency in transport. Publ: Highway investment theories and practices; What's ahead in containerization, In: Agricultural Policy Institute, N.C. State Univ, 6/67; Containerization in transporting agricultural perishables, In: Highway Research Record, Nat. Acad. Sci, 67. Address: 6909 Arbor Lane, McLean, Va. 22101.

CLAYTON, DR. RUTH B(URKEY), b. Peoria, Ill, Oct. 11, 09. PSYCHOLOGY. A.B, Ohio State, 30, M.A, 32; Ph.D.(psychol), Western Reserve, 43. Private consult, 43-48; assoc. prof. psychol, Akron, 48-54; coordinator pupil personnel, pub. schs, Cuyahoga Falls, 54-66; CHMN. DEPT. SPEC. ED, YOUNGSTOWN STATE, 68- Private practice & consult, 66- Mem. State Adv. Cmt, Acad. Gifted, Ohio, 61-; mem. bd, United Serv. to Handicapped; Ment. Health Coun; chmn. subcmt. serv. to retarded, Tri County Zone Cmt. Retardation; past pres. Akron Chapter, Coun. Except. Children, past secy. Ohio Fedn; pres-elect, Ment. Health Coun. Psychol. Asn; Nat. Asn. Ment. Health. Clinical psychology; guidance; child and adolescence psychology; educational of academically gifted. Address: 812 Sunnyside Ave, Akron, Ohio 44303.

CLEAR, PROF. VAL(OROUS) BERNARD, b. Kendallville, Ind, Jan. 31, 15; m. 42; c. 3. SOCIOLOGY, SOCIAL WORK. A.B, Anderson Col, 41; Lima, 41-44; Ph.D.(sociol), Chicago, 53. Teacher, Colegio Anglo-Peruano, Lima, 41-44; researcher community studies, Church Fedn. Greater Chicago, 44-47; PROF. SOCIOL, ANDERSON COL, 47-, CHMN. DEPTS. SOCIOL. & SOC. WORK, 59- Vis. lectr, Sem. Evangel. Puerto Rico, 60-61; Ford Found. non-west. studies grant develop. African prog, 65-66; Fulbright lectr, Peru, 68-69. Mem. adv. cmt. undergrad. ed, Coun. Soc. Work Ed, 61-67; legis. adv. cmn. welfare laws, Ind, 65-69. Sociol. Asn; Coun. Soc. Work Ed; Relig. Res. Asn; Nat. Coun. Crime & Delinquency. Teaching of social problems, especially through use of fiction; sociology of religion. Publ: Common cage birds in America, Bobbs, 66; Reflections of a post-sectarian, Christian Century, 1/63; Paperback pedagogy, Saturday Rev, 11/64. Address: Dept. of Sociology, Anderson College, Anderson, Ind. 46011.

CLEARY, PROF. C. RICHARD, b. U.S, Dec. 6, 19; m. 42; c. 7. INTERNATIONAL RELATIONS, POLITICAL PHILOSOPHY. B.A, St. Peter's Col, 42; M.A, Fordham, 47, Ph.D, 53. Instr. econ, Fordham, 46-47; asst. prof. GOVT, LA SALLE COL, 47-58, assoc. prof, 58-62, PROF, 62-, chmn. dept. polit. sci, 48-65, summer res. grants, 66-68. Lectr, Rosemont Col, 49-62. Mem. bd. gov, Phila. Munic. Govt. Training Inst, 59- Distinguished teaching award, Christian & Mary Lindback Found, 64. U.S.A.A.F, 42-45. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Constitutional executive powers in the making of foreign policy; conflict between the President and Congress in foreign policy; Franco-American relations. Address: Dept. of Political Science, La Salle College, Philadelphia, Pa. 19141.

CLEARY, DR. ROBERT EDWARD, b. East Orange, N.J, Feb. 27, 32; m. 56; c. 3. POLITICAL SCIENCE. B.A, Montclair State Teachers Col, 53, M.A, 57; Ph.D (polit. sci), Rutgers, 62. Teacher, Irvington High Sch, N.J, 55-58; asst. dir. proj. sec. sch. soc. studies ed, Rutgers, 58-61; asst. prof. polit. sci, George Peabody Col, 61-64, assoc. prof, 64; Am. Polit. Sci. Asn. cong. fel, 64-65; ASSOC. PROF. GOVT, AMERICAN UNIV, 65-, ASSOC. DEAN SCH. GOVT, 67- Mem, Nat. Coun. Soc. Studies, mem. cmt. learned socs, 66-; consult, U.S. Off. Ed, 65-; asst. dir, Am. Polit. Sci. Asn, 66-67. U.S.A, 53-55. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. American national government; political socialization, politics and education. Publ: Co-auth, Political science in the social studies, Nat. Coun. Soc. Studies, 66; auth, The role of gubernatorial leadership in desegregation in public higher education, J. Negro Ed, fall 66; Responsibility and accountability in the American system of government, Teachers Col. Record, 3/67. Address: School of Government, American University, Washington, D.C. 20016.

CLEAVELAND, PROF. FREDERIC NEILL, b. Phoenix, Ariz, Oct. 30, 15; m. 40; c. 3. POLITICAL SCIENCE. A.B, Duke, 37, M.A, 42; Sanxay fel, Princeton, 49-50, M.A, 50, Ph.D.(polit. sci), 51. Field training supvr, Am. Red Cross Serv. to Armed Forces, 42-43, field dir, 43-44; instr. govt, Wash. Sq. Col, N.Y. Univ, 50-51; asst. prof. POLIT. SCI, NORTH CAROLINA, 51-54, assoc. prof, 54-57, PROF, 57-, CHMN. DEPT, 58-, RES. PROF, INST. RES. SOC. SCI, 57- Vis. prof, California, Berkeley, 59-60; consult. grad. training polit. sci. & pub. admin, Latin Am. Faculty Soc. Sci, Santiago, Chile, 61-; sr. staff govt. studies, Brookings Instn, 63-66. Trustee, Inter-Univ. Case Prog. Pub. Admin, 56-63, 67-; mem. adv. cmt. govt. progs. in behav. sci, Nat. Acad. Sci, 67- U.S.A, 44-45, Sgt. Polit. Sci. Asn; Soc. Pub. Admin. Publ: Science and state government, Univ. North Carolina, 59; Leadership, decision-making and urban growth, In: Urban growth dynamics,

Wiley, 62; Congress and urban problems: legislating for urban areas, J. Polit, 5/66. Address: Dept. of Political Science, University of North Carolina, Chapel Hill, N.C. 27514.

CLEETON, GLEN U(RIEL), b. Green City, Mo, July 2, 95; m. 14; c. 4. INDUSTRIAL PSYCHOLOGY. B.S, Mo. State Teachers Col, 17; A.M, Iowa, 23. From instr. to prof. indust. psychol, CARNEGIE-MELLON UNIV, 23-65, head dept. indust. ed, 26-35, printing mgt, 35-44, dean div. humanistic & soc. studies, 44-63, asst. to pres, 63-65, EMER. DEAN HUMANITIES & SOC. SCI, 65- Consult. indust. psychologist, 65- Fel. Psychol. Asn. Aptitude and interest measurement; employee selection, training, morale, and motivation; executive development. Publ: Executive ability: its discovery and development; Making work human; Professional use of the clinical method of employee selection, Appln. Psychology. Address: 2812 McCully Rd, Allison Park, Pa. 15101.

CLEGG, DR. DENZIL O, b. Wray, Colo, Dec. 8, 31; m. 52; c. 4. ADMINISTRATION. B.S, Nebraska, 54; M.S, Wisconsin, 61, Ph.D.(exten. admin), 63. Asst. exten. agr. agent, Nebraska, 56-57, exten. agent, 57-59, dist. supvr, 59-60, area supvr, 63-66, supt. exp. sta, 64-66; ASSOC. PROF. ED. & ED. & RES. LEADER, COOP. EXTEN. SERV, COLORADO STATE, 66- U.S.A, 54-56, 1st Lt. Acad. Mgt; Rural Sociol. Soc; Adult Ed. Asn. U.S. Organizational and individual motivation; area and regional development. Address: Dept. of Education, Colorado State University, Ft. Collins, Colo. 80521.

CLEGG, PROF. L(EWIS) L(AMAR), b. Walton Co, Ga, May 15, 01. SOCIOLOGY. Ph.B, Emory, 25, A.M, 31; Columbia, 32; Chicago, summers, 34-35, 38-40. Asst. dean men, EMORY, 32-40, from instr. to ASSOC. PROF. SOCIOL, 33- SR. DIR. ADMISSIONS, 64-, student aid & placement, 40-47, dir. admissions, 47-64. Address: Emory University, Atlanta, Ga. 30322.

CLEGG, DR. WILLIAM C(RISPIN), b. Sandwich, Ont, July 12, 21; nat; m. 52. PSYCHOLOGY. B.A, Western Ontario, 50, M.A, 51; Ph.D.(ed. theory), Toronto, 57. Sci. officer personnel res, Defence Res. Bd, 51-56; supvr. systs. res, Bank of Commerce, 56-58; staff psychologist personnel res, Imp. Bank of Commerce, 58-65; DIR. PSYCHOL. SERV. & SR. ASSOC, MOORE-RAMSAY ASSOCS, 65- R.C.N.V.R, 42-46. Psychol. Asn; Can. Psychol. Asn. Personnel research; management development; operational research; counseling. Publ: Nonvisual perception of the postural vertical, Can. J. Psychol; The effectiveness of practice in simulated situations as training for actual use of a skill, Ont. J. Ed. Res. Address: 42 Revcoe Dr, Willowdale, Ont, Can.

CLELAND, DR. C(HARLES) CARR, b. Murphysboro, Ill, May 15, 24; m. 48. EDUCATIONAL PSYCHOLOGY. B.S, Southern Illinois, 50, M.S, 51; Ph.D, Texas, 57. Asst. dir, Brown Schs. Except. Child, Tex, 51; chief psychologist, Austin State Sch, 52-55, dir. psychol. & ed, 57-59; supv. psychologist, Lincoln State Sch, State Dept. Pub. Welfare, Ill, 56-57; supt. Abilene State Sch, 59-63; ASSOC. PROF. SPEC. ED, TEXAS, 63- Dir. res, regional rehab. res. & training center ment. deficiency, Voc. Rehab. Admin, 65- Res. consult, Tex. Asn. Retarded Children, 57-59, chmn. res. cmt, 66-; consult, Lynchberg, Va. Res. & Training Conf, 57; Brown Schs, 63-; proj. attend. training, South. Regional Ed. Bd, 61. U.S.A.A.F, 43-46, Sgt. Psychol. Asn; fel. Asn. Ment. Deficiency; Interam. Soc. Psychol. Organizations, attitudes and opinions; mental deficiency and social class. Publ: Co-auth, Use of tranquilizers for mentally deficient patients, J. Diseases of Children; Psychological determinants of tenure in institutional personnel & Effect of institutional tours on attitudes of high school seniors, Am. J. Ment. Deficiency. Address: 2104 Meadowbrook Dr, Austin, Tex. 78703.

CLELAND, DR. CHARLES EDWARD, b. Kane, Pa, Feb. 2, 36; m. 58; c. 2. ANTHROPOLOGY. B.A, Denison, 58; M.S. Arkansas, 60; M.A, Michigan, 64, Ph.D.(anthrop), 66. Instr. ANTHROP, MICHIGAN STATE, 64-66, asst. prof, 66-68, ASSOC. PROF, 68-, CURATOR ANTHROP, UNIV. MUS, 64- Soc. Am. Archaeol; Anthrop. Asn; Soc. Hist. Archaeol; Soc. Mammal. North American archaeology, especially paleoecology, ethnozoology and settlement systems of the Upper Great Lakes region; historic sites archaeology. Publ: Analysis of the faunal remains of the Fatherland site. Anthrop. Papers, Am. Mus. Natural Hist, 65; The prehistoric animal ecology and ethnozoology of the Upper Great Lakes region. Anthrop. Paper 29, 66 & co-auth, The Spider Cave site, Delta County, Michigan, Anthrop. Paper 33, 68, Mus. Anthrop, Univ. Mich. Address: Dept. of Anthropology, Michigan State University, East Lansing, Mich. 48823.

CLELAND, DR. CHARLES L(ESLIE), b. Cairo, W.Va, Aug. 26, 27; m. 53; c. 2. RURAL SOCIOLOGY. B.A, Morris Harvey Col, 52; Harvard, 52-53; M.S, Wisconsin, 55; Ph.D.(rural sociol), 58. Asst. soc. psychol, Wisconsin, 53-54; RURAL SOCIOL, 54-55, proj. asst, 55-57, instr, 57; asst. prof, TENNESSEE, 58-61, ASSOC. PROF, 61- U.S.A.F, 46-48, Sgt. Sociol. Asn; Rural Sociol. Soc; Soc. Appl. Anthrop. Development and mobility of families in low income rural areas of the South; low income family; rural Appalachia; survey design. Publ: Characteristics of social systems within which selected types of information are transmitted, Rural Sociol; co-auth, Scaling social data, 12/65 & auth, Selected population and agricultural statistics for Tennessee counties, 6/67, Tenn. Agr. Exp. Sta. Address: Dept. of Agricultural Economics & Rural Sociology, University of Tennessee, Knoxville, Tenn. 37916.

CLELAND, DR. COURTNEY B(LAIR), b. Northfield, Minn, Aug. 5, 20; m. 46. SOCIOLOGY. B.A, Carleton Col, 42; Hamilton Col, 44; Midland fel, 47-49; Ford Found. fel, 51-52; Ph.D.(sociol), Minnesota, 58. Instr. SOCIOL, Minnesota, 49-50; asst. prof, N.Dak. State, 50-58, assoc. prof, 58-62, prof, 62-64; ASSOC. PROF, ARIZONA, 64- Analyst, Sask. Royal Cmn. Agr. & Rural Life, 53. U.S.A, 42-46. AAAS; Soc. Appl. Anthrop; Sociol. Asn; Rural Sociol. Soc; Soc. Study Soc. Probs. Community and regional sociology; social gerontology. Publ: Co-auth, Older people and their social world, Davis, 65; auth, Home and family in rural Saskatchewan, Report Royal Cmn. Agr. & Rural Life. Address: 7121 E. Eastland St, Tucson, Ariz. 85710.

CLELAND, PROF. SHERRILL, b. Galion, Ohio, Sept. 21, 24; m. 46; c. 4. ECONOMICS. A.B, Oberlin Col, 49; M.A, Princeton, 51, Ph.D, 57. Asst, Princeton, 50-51, res. asst, indust. rels. sect, 51-53, instr. ECON, 53-55; asst. prof, Richmond, 55-56; from asst. prof. to PROF, KALAMAZOO COL, 56-chmn. dept. econ. & bus. admin, 57-63, v.pres. & dean acad. affairs, 64-67. North Cent. Asn. fel, 60-61; Ford Found. summer res. fel. econ, Michigan, 58 & econ. adv, Kingdom of Jordan, 63-64 & American Univ. Beirut, 67-69. U.S.A, 44-46. AAAS; Econ. Asn; Indust. Rels. Res. Asn. Publ: Influence plant size on industrial relations, Ind. Rels. Sect. Princeton, 55; Local input-output analysis: a new business tool, Bus. Topics, fall 59; Short essay on a managerial theory of the firm, In: Linear programming and the theory of the firm, Macmillan, 61. Address: Dept. of Economics, Kalamazoo College, Kalamazoo, Mich. 49001.

CLELAND, DR. W(ILLIAM) WENDELL, Sociol, see 10th ed, Soc. & Behav. Vols.

CLELLAND, PROF. RICHARD COOK, b. Camden, N.Y, Aug. 23, 21. STATISTICS, MATHEMATICS. B.A, Hamilton Col, 44; A.M, Columbia, 49; Ph.D, Pennsylvania, 56. Instr. math, Hamilton Col, 43-44, 50-53; Utica Col, 46-47; asst. prof. statist, PENNSYLVANIA, 56-61, assoc. prof, 61-66, PROF. STATIST. & OPERS. RES. & CHMN DEPT, 66- Consult, Alaskan Air Command, U.S. Dept. Air Force, 58-59; Johnsville Air Develop. Center, U.S. Dept. Navy, 59-60. U.S.A, 44-46, Sgt. Statist. Asn; Inst. Math. Statist; Math. Asn; Opers. Res. Soc. Design of experiments; operations research. Publ: Co-auth, Nonparametric and shortcut statistics, Interstate, 57, Effective use of statistics in accounting and business, Holt, 64 & Basic statistics with business applications, Wiley, 66. Address: Dept. of Statistics & Operations Research, University of Pennsylvania, Philadelphia, Pa. 19104.

CLEM, PROF. ALAN L(ELAND), b. Lincoln, Nebr, Mar. 4, 29; m. 53; c. 3. POLITICAL SCIENCE. B.A, Nebraska, 50; M.A, American Univ, 57, Ph.D, 60. Copywriter & res. dir, Ayres, Swanson & Assocs, Inc, 50-52; press secy. to Rep. Carl T. Curtis, 53-55; Rep. R.D. Harrison, 55-59; info. specialist, for. agr. serv, U.S. Dept. Agr, 59-60; asst. prof. GOVT. & res. assoc, GOVT. RES. BUR, SOUTH DAKOTA, 60-62, assoc. prof. & asst. dir, 62-64, PROF. & ASSOC. DIR, 64- Asst. exec. secy, Food Peace Conf, D.C, 59; elections analyst, KELO-TV, S.Dak, 60-; Nat. Center Ed. Polit. faculty fel, Repub. Nat. Convention, 64; participant, Comp. State Elections Proj, 68- Polit. Sci. Asn. Elections; political behavior; pressure groups; United States Congress: United States agricultural policy; state and local government; legislative apportionment; political history and parties. Publ: Precinct voting, Govt. Res. Bur, 63; Prairie state politics, Pub. Affairs, 67; Popular representation and senate vacancies, Midwest J. Polit. Sci, 2/66. Address: 902 Valley View Dr, Vermillion, S.Dak. 57069.

CLEMEN, DR. RUDOLF A(LEXANDER), Econ. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLEMENCE, PROF. RICHARD V(ERNON), b. Greenville, R.I, Oct. 13, 10; m. 42; c. 1. ECONOMICS. Ph.B, Brown, 34, univ. scholar, 34, A.M, 36; A.M, Harvard, 40, Ph.D, 48. Instr. ECON, Boston, 37-38; asst, Mass. Inst. Tech, 39-42; head dept, Pine Manor Jr. Col, 45-47; asst. prof, WELLESLEY COL, 47-52, assoc. prof, 52-58, prof, 58-65, A. BARTON HEPBURN PROF, 65-, CHMN. DEPT, 57- Spec. res, Nat. Resources Planning Bd, 41-42; res. assoc, Nat. Bur. Econ. Res, 42; spec. res, Off. Sci. Res. & Develop, 45; dir. planning div, Paine Brook Assocs, 62- Consult, New Eng. Econ. Ed. Coun, 54-; consult. economist, Kingston Ins, 63- U.S.A, 42-44, Sgt. Econ. Asn; Econ. Hist. Asn; Statist. Asn; Economet. Soc; fel. Asn. Bus. Econ; Acad. Polit. & Soc. Sci; fel. Royal Econ. Soc. Economic fluctuations and economic development; economic analysis. Publ: Schumpeterian system; Income analysis; Economics of defense. Address: Dept. of Economics, Wellesley College, Wellesley, Mass. 02181.

CLEMENS, PROF. ELI WINSTON, b. Gary, W.Va, Mar. 13, 09; m. 44; c. 2. ECONOMICS. B.S, Va. Polytech, 30; M.S, Illinois, 34; fel, Wisconsin, 39-40, Ph.D.(econ), 40. Instr. econ, Toledo, 40-41; assoc. prof, Southwest. La. Inst, 41-42; PROF. BUS. ADMIN, MARYLAND, 42- Ford fel, 56-57; summers, instr, Michigan, 58-61. Pub. utility consult, 50- Am. Econ. Asn; Royal Econ. Soc. Public utility economics; finance and cost of capital. Publ: Economics and public utilities; Price discrimination and multiple product firm, Rev. Econ. Studies. Address: Dept. of Business Administration, University of Maryland, College Park, Md. 20742.

CLEMENS, DR. THEODORE L(LOYD), Clin. & Physiol. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

CLEMENS, THOMAS D(EMPSTER), b. Venice, Ill, Aug. 27, 22; m. 44; c. 1. EDUCATION PSYCHOLOGY, PUBLIC ADMINISTRATION. B.S, Washington (St. Louis), 47; M.S, Wisconsin, 48. Teacher, schs, University City, Mo, 46-47; instr. ed, Wis. State Teachers Col, Milwaukee, 48-50; dir. Audiovisual Ed. Dept, St. Louis County, Mo, 50-53; instr. ed, exten. div, Wisconsin, 53-55; asst. prof. ed. & dir. utilization serv, audiovisual serv. center, San Jose State Col, 55-60; res. coordinator, ed. media br, OFF. ED, 60-63, chief res. & serv. sect, 63-64, media res. & dissemination br, 64-65, div. higher ed. res, res. br, 65-66, asst. dir. div. res. training & dissemination, 66-67, CHIEF UTILIZATION BR. & DEP. DIR, DIV. INFO. TECH. & DISSEMINATION, 67-, consult, res. div, 59. Lectr, Washington, (St. Louis), 50-53; vis. prof, Florida, 53. U.S.A, 42-44, 1st Lt. Ed. Res. Asn; Nat. Asn. Ed. Broadcasters. Instructional methods and media; diffusion of innovation in educational settings. Publ: Effectiveness of four methods of film utilization for community improvement, Exten. Div, Univ. Wisconsin, 55; co-auth, Audiovisual equipment handbook, McGraw, 58; auth, Dissemination of education research, In: The utilization of educational research in educational change in the United States, UNESCO, 67. Address: 5400 Pook's Hill Rd, Bethesda, Md. 20014.

CLEMENS, DR. WALTER C, JR, b. Cincinnati, Ohio, Apr. 6, 33; m. 60; c. 1. INTERNATIONAL RELATIONS. A.B, Notre Dame, 55; Inter-Univ. travel grant, Moscow State, 58-59; Ford Found. fel. & M.A, Columbia, 57, Ph.D. (int. rels), 61. Chmn. dept. lang, Iolani Sch, Hawaii, 60-61; asst. prof. polit. sci, California, Santa Barbara, 61-63; Mass. Inst. Tech, 63-66; ASSOC. PROF. GOVT, BOSTON, 66- Lectr, Salzburg Seminar Am. Studies, 65;

Austrian Diplomatic Acad, 65; Hungarian Acad. Sci, 65; summer res. fel, Harvard, 65. Consult, Simulmatics Corp, 66; Arthur D. Little, Inc, 66-67. Exec. officer, arms control cmt, Int. Coop. Year, 65; mem. steering cmt, Ed. Campaign to Halt Nuclear Weapons Spread, 66-68. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Inst. Strategic Studies. Soviet foreign policy, particularly arms control; international relations; systems analysis; simulation; technology and society. Publ: Co-auth, World perspectives on international politics, Little, 65 & Khrushchev and the arms race, M.I.T. Press, 66; auth, Arms race and Sino-Soviet relations, Hoover Inst, 68. Address: Dept. of Government, Boston University, Boston, Mass. 02215.

CLEMENT, DR. DAVID E(ASTMAN), b. Pittsburgh, Pa, Feb. 10, 36; m. 57, div; c. 2. PSYCHOLOGY. B.S, Carnegie Inst. Tech, 57; Rochester, 58-60; Nat. Sci. Found. fel, Hopkins, 61-63, Ph.D.(psychol), 63. Develop. engr, paper serv. div, Eastman Kodak Co, N.Y, 57-60; asst. prof. PSYCHOL, Carnegie Inst. Tech, 63-65; SOUTH FLORIDA, 65-67, ASSOC. PROF, 67- Instr, Peabody Inst, Conserv. Music, Baltimore, Md, 62-63; Md. Inst. Col. Art, 62-63. Statist. consult, Springfield State Hosp, Sykesville, Md, 61-63; consult. sr. develop. engr, Fla. Aeronaut, Div, Honeywell, Inc, Fla, 65-; field assessment officer consult, Peace Corps Liberia Proj, 67- U.S.A.R, 59-67. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc; Psychonomic Soc; Soc. Psychol. Study Social Issues; Soc. Eng. Psychol. Perception; perceptual learning; cognitive processes; experimental methods. Publ: Uncertainty and latency of verbal naming responses as correlates of pattern goodness, 64 & Paired-associate learning as a correlate of pattern goodness, 67, J. Verbal Learning & Verbal Behavior; Pattern uncertainty and the discrimination of visual patterns, Perception & Psychophys, 67. Address: Dept. of Psychology, University of South Florida, Tampa, Fla. 33620.

CLEMENT, PROF. M(EREDITH) O(WEN), b. Colusa, Calif, June 7, 26; m. 55; c. 2. ECONOMICS. B.S, California, 50, Ph.D, 58. Economist, U.S. Govt, 54-56; PROF. ECON, DARTMOUTH COL, 56- Asst. prof, California, 61-62. Consult, New Eng. Econ. Res. Found, 65-; Econ. Develop. Admin, U.S. Dept. Commerce, 66- U.S.M.C, 44-46. Econ. Asn; Economet. Soc; Royal Econ. Soc. Analysis of United States economic fluctuations and stabilization policy; international transmission of economic fluctuations and policies designed to eliminate their transmission or reduce international effects. Publ: Co-auth, Theoretical issues in international economics, Houghton, 67; Automatic stabilizers and business cycle mechanisms, South. Econ. J; Economic evaluation of federal grant-in-aid programs in New England. Address: Dept. of Economics, Dartmouth College, Hanover, N.H. 03755.

CLEMENT, DR. PAUL W, b. Aberdeen, Wash, Mar. 6, 39; m. 59; c. 3. CLINICAL PSYCHOLOGY. B.S, Washington (Seattle), 60, B.A, 61; M.A, Pepperdine Col, 62; U.S. Pub. Health Serv. fels, Utah, 62-63, 64-65, univ. fel, 63-64, Ph.D.(psychol), 65. Instr. med. psychol, sch. med, California, Los Angeles, 65-67, asst. prof, 67; ASST. PROF. PSYCHOL. & DIR. CLIN. TRAINING, FULLER GRAD. SCH. PSYCHOL, 67- Clin. psychologist, Harbor Gen. Hosp, Torrance, Calif, 65-67, Attend. Staff Asn. gen. res. grant, 66-67; U.S. Pub. Health Serv. res. grants, 66-68. AAAS; Psychol. Asn. Behavior modification and psychotherapy with children; application of experimental psychology to the problems of clinical psychology. Publ: Co-auth, Clinical students evaluate present APA approved training programs and make suggestions for changes, J. Clin. Psychol, 23: 57-62 & Group play therapy and tangible reinforcers used to modify the behavior of eight-year-old boys, Behav. Res. & Ther, 5: 301-312; auth, Operant conditioning in group psychotherapy with children, J. Sch. Health, 38: 271-278. Address: Graduate School of Psychology, Fuller Theological Seminary, 177 N. Madison Ave, Pasadena, Calif. 91101.

CLEMENT, WILFRID REID, b. Toronto, Ont, Dec. 30, 28; m. 60; c. 1. PSYCHOLOGY. B.A, Parsons Col, 63; M.A, Marshall, 64; Montana, 64-66; London, 66. Res. asst. psychopharmacol, drug res. unit, Huntington State Hosp, W.Va, 63-64; res. assoc, psychopharmacol. lab, Univ. Montana, 64-66; SR. RES. SCIENTIST, David Jackson & Assocs, 66-67; HUMAN BEHAVIOUR RES. GROUP LTD, 67- Consult, Ontario Hosp, Toronto, 67. AAAS; Am. Psychol. Asn; Acad. Psychosom. Med; Can. Psychol. Asn. Institutional responses to social and technological change; development of processes which enable people and institutions to evolve more quickly to deal with social and technological change. Publ: Analysis of baseline and subsequent data in a geriatric study using valium, Psychol. Reports, 65; co-auth, Effects of diazepam suspension in geriatric patients hospitalized for psychiatric illnesses, J. Am. Geriat. Soc, 65; auth, Hallucinogenic drug abuse: manifestations & management, Can. Med. Asn. J, 2/68. Address: Human Behaviour Research Group. Ltd, 108 Hazelton Ave, Toronto 5, Ont, Can.

CLEMENTS, DR. FORREST E(DWARD), b. Princeton, Mo, July 31, 00; m. 41. ANTHROPOLOGY. A.B, California, 23, fel, 24-28, A.M, 25, Ph.D, 28. Nat. Res. Coun. fel, Yale, 28-30, res. asst, inst. human rels, 30-31; assoc. prof. anthrop, Oklahoma, 31-39, prof, 40-43, head dept, 31-43; statistician air serv. command, U.S. Dept. Army Air Force, 43-44; sr. study dir. div. prog. surv, bur. agr. econ, U.S. Dept. Agr, 44-46, head div. spec. surv, 46-54; res. consult, Stewart, Dougall & Assocs, 54-60; SR. EVAL. OFFICER, AGENCY INT. DEVELOP, 60- Anthrop. Asn. Public attitude and opinion research; racial differences in mortality and morbidity; historical background of the Spiro Mound. Publ: Cluster analysis with anthropological data, Am. Anthrop; Psycho-physical methods used in studies of consumer reaction toward new produsts, J. Appl Psychol; co-auth, A.I.D. Participant training program, U.S. Dept. State, 66. Address: 4914 N. 34th St, Arlington, Va. 22207.

CLEMENTS, PROF. SAM D(OWIS), b. Blackwell, Okla, Sept. 2, 26. CHILD PSYCHOLOGY. B.A, Wichita, 51; M.A, Houston, 55, Ph.D, 60. Instr. & chief psychologist, dept. pediat, med. br, Texas, 56-57, asst. prof. & co-dir, child guid. clin, 57-59; asst. prof. PSYCHIAT. & chief child psychologist, MED. CENTER, ARKANSAS, 60-61, asst. prof, 61-65, ASSOC. PROF, DEPTS. PSYCHIAT. & PEDIAT, 65-, DIR. CHILD GUID. CLIN, 61- U.S.A, 42-45; U.S.A.F.R, 45-, 1st Lt. Psychol. Asn. Diagnosis and treatment of child behavior disorders; psychotherapy with children; organization and administration of medical center and community child guidance clinics. Publ: Co-auth, Minimal brain dysfunctions in the school age child—diagnosis and treatment, Arch. Gen. Psychiat. Address: 26 Nottingham Rd, Little Rock, Ark. 72205.

CLEMENTS, WILLIAM B, Mech. Eng, see 11th ed, Phys. & Biol. Vols.

CLENDENEN, DR. DOROTHY M(ARGUERITE), b. Robinson, Kans, Sept. 17, 13. PSYCHOLOGY. A.B, Kansas, 38; M.A, Syracuse, 45, Ed.D.(psychol), 48. Mgr. couns. center & lectr. psychol, California, Los Angeles, 48-57; ASST. DIR. TEST DIV, PSYCHOL. CORP, 57- Consult, training prog. couns. psychol, dept. med. & surg, Vet. Admin, 55-57. AAAS; Psychol. Asn; Personnel & Guid. Asn. Selection of students for professional schools; selection of counseling psychologists and counselor training techniques; techniques of psychological counseling; construction and evaluation of psychological tests. Publ; Co-auth, Academic promise tests, Psychol. Corp, 62. Address: Psychological Corporation, 304 E. 45th, New York, N.Y. 10017.

CLENDENIN, PROF. JOHN C(AMERON), Finance, see 10th ed, Soc. & Behav. Vols.

CLEROUX, DR. ROBERT A, b. Montreal, Que, July 10, 40; m. 64; c. 1. MATHEMATICAL STATISTICS. B.Sc, Montreal, 62, M.Sc, 63, Ph.D.(statist), 65. ASST. PROF. STATIST, Columbia, 65-66; MONTREAL, 66. Inst. Math. Statist; Am. Statist. Soc; Can. Math. Cong. Design of experiments and analysis of variance; multivariate statistical analysis. Publ: On the evaluation of some expressions concerning the PBIB designs, Can. Math. Bull, 67. Address: Dept. of Mathematics, University of Montreal, C.P. 6128, Montreal, Que, Can.

CLEVELAND, PROF. AUSTIN C(ARL), b. Knoxville, Iowa, Dec. 20, 89. PSYCHOLOGY. A.B, Phillips, 17, B.S, 22; Yale, 19-20; A.M, Chicago, 25; summers, Columbia, 30, Southern California, 37, 40, Oklahoma, 43, California, Los Angeles, 45; D.Ed, Stanford, 33. Registr, Taft Jr. Col, 33-37; prof. psychol. & dir. psychol. clin, Fullerton Jr. Col, 37-40; prof. PSYCHOL, OKLA. CITY UNIV, 40-46, 52-60, EMER. PROF, 60-, dean students, 41-46, prof. sociol, 46-52, dir. div. soc. studies, 50-60, head dept. psychol, 52-60. Counsr, welfare dept, Salvation Army, 60-61, men's social serv. center, 61- Mem. Coun. Ment. Hyg. Am. Acad. Arts & Sci. Publ: This and that, Salvation Army, 63 & rev. ed, 63. Address: 2000 N.W. 17th St, Oklahoma City, Okla. 73106.

CLEVELAND, HARLAN, b. New York, N.Y, Jan. 19, 18; m. 41; c. 3. PUBLIC ADMINISTRATION. A.B, Princeton, 38; Rhodes scholar, Oxford, 38-39; L.H.D, Alfred, 58; hon. LL.D, Rollins Col, 56, Franklin & Marshall Col, 60, Kent State, 62, Middlebury Col, 62, Kenyon Col, 66; hon. D.C.L, American Univ, 66. Writer, U.S. Dept. Agr, 40-42; official with Bd. Econ. Warfare & For. Econ. Admin, 42-44; exec. dir, Allied Control Cmn, Italy, 44-45, acting v.pres, 45-46; dep. chief mission, UNRRA, Italy, 46-47, dir, China off, Shanghai, 47-48; dir. China aid prog. & dep. asst. adminstr, Econ. Coop. Admin, 48-51, asst. dir, Mutual Security Agency, 52-53; exec. ed. & publisher, The Reporter, 53-56; dean, Maxwell Grad. Sch, Syracuse, 56-61; asst. secy. state for Int. Orgn. Affairs, U.S. Dept. State, 61-65; U.S. AMBASSADOR TO NATO, 65- Mem, Coun. For. Rels. U.S. Medal of Freedom; Grand Knight Officer, Order of Crown of Italy; Gold Star, Order of Brilliant Star of China. Polit. Sci. Asn; Soc. Pub. Admin. Publ: Co-auth, Overseas Americans; ed, Promise of world tensions; auth, The obligations of power, Harper, 66. Address: NATO-OTAN, Brussels 39, Belgium.

CLEVELAND, PROF. (OPAL) JEAN, b. Ft. Meade, Fla, Aug. 9, 16. SOCIAL WORK. A.B, Kentucky, 36; A.M, Duke, 43; Scarritt Col, 43-44; M.S, Pittsburgh, 46; Chicago, 54-55, 60-61, 64-65. Group worker, Brashear Asn. Settlement, Pa, 44-45, Soho Community House, 45-46; from instr. to PROF. SOC. GROUP WORK, SCARRITT COL, 46- Teacher, sch. soc. work, Tennessee, 47-52. Soc. work consult, various Asian countries, 64; dept. home fields, nat. div. bd. missions, Methodist Church, 64- Mem. bd. dir, Nat. Fedn. Settlements, 58-64, training center tech. adv. cmt, 60- Adult Ed. Asn; Asn. Soc. Workers, Acad. Cert. Soc. Workers. Organizational analysis; social group work; use of program content in social group work with young adult women; American literature. Publ: Best sellers in American fiction, 1918-1932. Address: Dept. of Social Welfare, Scarritt College, Nashville, Tenn. 37203.

CLEVELAND, PROF. ROBERT E, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLEVELAND, DR. SIDNEY E, b. Boston, Mass, Jan. 22, 19; m. 42; c. 4. PSYCHOLOGY. A.B, Brown, 41; M.A, Nebraska, 42; Ph.D, Michigan, 50. Voc. adv, Vet. Admin, Boston, Mass, 46-47, CHIEF PSYCHOLOGIST, VET. ADMIN. HOSP, HOUSTON, 50- Clin. prof, Houston, 50-; clin. prof, col. med, Baylor, 57- U.S.N, 42-46, Lt. Comdr. Psychol. Asn. Publ: Body image and personality; Psychological characteristics and physiological reactivity in ulcer and rheumatoid arthritis groups, Psychosomat. Med; co-auth, An affiliated Veterans Administration-medical school psychology training program, Am. Psychol, 66. Address: 12021 Tall Oaks, Houston, Tex. 77024.

CLEVELAND, PROF. WILLIAM C(HARLES), b. Chicago, Ill, June 5, 02. ECONOMICS. A.B, Beloit Col, 23; fel, Chicago, 26-27, Ph.D, 38. Asst. prof. ECON, INDIANA, 27-41, assoc. prof, 41-49, prof, 49-67, chmn. dept, 50-54, EMER. PROF, 67- Asst, Chicago, 31-32; economist, Nat. Resources Planning Bd, 42-43; War Prod. Bd, 43-45. Econ. Asn; Finance Asn. Publ: Co-auth, Economics, principles and problems; Greek monetary developments, 1939-1948; auth, Monetary policies and organization, In: Economic problems of war. Address: 915 Ballantine Rd, Bloomington, Ind. 47401.

CLEVENGER, HORACE M(ARSHALL), b. Manhattan, Kans, Dec. 21, 13; m. 41; c. 3. ECONOMICS, STATISTICS. B.S.A, Purdue, 38; M.S, Ohio State, 52, Southern Illinois, 61; Washington (St. Louis), 62-66. Statist. clerk agr. census, U.S. Bur. Census, D.C, 40-41; anal. statistician crop & livestock reporting, bur. agr. econ, U.S. Dept. Agr, Ohio, 41-52; economet, Doane Agr. Serv, Inc, Mo, 53-54; mgt, Transportation Materiel Command, St. Louis, Mo, 57-60, opers. res. analyst aircraft logistics res, 60-64, MATH.

STATISTICIAN, U.S. ARMY AVIATION MATERIEL COMMAND, 64- Statist. Asn; Econ. Asn; Soc. Qual. Control. Logistic management research on army aircraft; optimum inventory controls of parts and maintenance systems; special management problems; forecasting economic trends; estimating and forecasting crop and livestock inventory and production. Publ: Forecasting corn yield in Ohio during the growing season; Cost to TSMC for introduction and support of a new aircraft into the TC system; Project SOALB, support of army aircraft in limited war on brush fires, Government, 3/64. Address: 21 Almeda Place, Ferguson, Mo. 63135.

CLEVENGER, DR. S(USAN) JEANNETTE, b. Winchester, Ind, Nov. 15, 10. SOCIAL & BEHAVIORAL SCIENCE. A.B, Ball State, 32; M.A, San Francisco State Col, 53; Ed.D.(guid), Stanford, 62. Teacher, White River Twp. Schs, Ind, 33-41; high schs, Ind, 41-44, 46-48; Calif, 49-52, 53-54; couns, U.S. Army, Europe, 54-56; asst. prof. guid, San Francisco State Col, 56-57; reading, San Jose State Col, 58-59; ASSOC. PROF. PSYCHOL, COUNSELING & GUID, COLO. STATE COL, 59- Psychol. Asn; Personnel & Guid. Asn. Motivation; achievement. Address: Dept. of Psychology, Colorado State College, Greeley, Colo. 80631.

CLEVENGER, PROF. THEODORE, JR. Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

CLEVINGER, PROF. WOODROW R(EXFORD), b. Morton, Wash, Oct. 25, 14; m. 50; c. 2. GEOGRAPHY. B.A, Washington (Seattle), 38, fel, 39-40, M.A, 40, M.A, 40, Ph.D, 55. Assoc. geog, Washington (Seattle), 50-51; photo interpreter, U.S. Naval Air Reserve, Wash, 52-56; mkt. analyst & cartographer, State Dept. Agr, 55-60; assoc. prof. MKT, SEATTLE, 60-67, PROF, 67- U.S.N, 41-50, Lt. Comdr. Asn. Am. Geog. Economic geography; cartography; photographic interpretation. Publ: Co-auth, Atlas of Washington agriculture, State Wash. Dept. Agr, 63; Appalachian mountaineers in Upper Cowlitz Basin, Pac. Northw. Quart; Locational change in the Douglas fir lumber industry, Yearbook Asn. Pac. Coast Geog. Address: 2520 E. McGraw St, Seattle, Wash. 98102.

CLEWETT, PROF. RICHARD M(ONROE), b. San Diego, Calif, Feb. 1, 11; m. 41; c. 2. MARKETING, ECONOMICS. A.B, Nevada, 34; M.A, Pennsylvania, 42, Ph.D.(econ), 48. Asst. prof. MKT, NORTHWESTERN, 48-51, assoc. prof, 51-54, PROF, 54- Consult, 40-42, 46-; Orgn. European Econ. Coop, 58-59. Group leader, President's Conf. Tech. & Distribution Res. Small Bus, 57. U.S.N, 42-45. Mkt. Asn; Econ. Asn. Marketing policy; channels of distribution; comparative marketing systems. Publ: Ed, Marketing channels; co-auth, Cases in marketing strategy, Irwin, 64; auth, Mass marketing, Growth Am. Econ. Address: Dept. of Marketing, Northwestern University School of Business, Evanston, Ill. 60201.

CLEWETT, DR. ROBERT L(ANCELOT), b. San Diego, Calif, Feb. 1, 11; m. 55; c. 2. BUSINESS ADMINISTRATION. A.B, California, 47, M.A, 49; Ph.D.(bus. admin), Michigan, 59. Instr. mkt, Montana State, 50-52; Michigan, 52-58; lectr, Pennsylvania, 58-59; ASSOC. PROF. MKT, PA. STATE, 59- Econ. Asn; Mkt. Asn; Inst. Mgt. Sci. Marketing and public policy; marketing management. Publ: Ed, Marketing's role in scientific management, Am. Mkt. Asn, 57; auth, Market opportunity and corporate management, 66 and Integrating science, technology and marketing: an overview, 67, Am. Mkt Asn. Proc. Address: College of Business Administration, Pennsylvania State University, University Park, Pa. 16802.

CLIFF, PROF. NORMAN, b. Detroit, Mich, Sept. 1, 30; m. 56; c. 2. PSYCHOLOGY. B.S, Wayne, 53, Ed. Testing Serv. Psychomet. fel, 53-56; Ph.D, Princeton, 57. Res. assoc, Ed. Testing Serv, 58-62; assoc. prof. PSYCHOL, SOUTHERN CALIFORNIA, 62-67, PROF, 67- U.S.P.H.S, 56-58, Sr. Asst. Scientist. AAAS; Psychol. Asn; Psychomet. Soc. Quantitative methods and models in psychology; verbal behavior; mediating systems as determiners of behavior. Publ: Adverbs as multiplier's, Psychol. Rev; Analytic rotation of a functional relationship, Psychometrika; co-auth, Study of sampling errors in factor analysis by artificial experiments, Psychol. Bull, 67. Address: 7900 Nardian Way, Los Angeles, Calif. 90045.

CLIFFE, PROF. FRANK B(AILEY), JR, b. Schenectady, N.Y, Sept. 16, 21; m. 48; c. 4. POLITICAL SCIENCE. A.B, Chicago, 42, M.A, 48; fel, Brookings Instn, 56-57, Ph.D, 57. Instr, Ill. Inst. Tech, 48-51; asst. to dir, Pub. Admin. Clearing House, 51-56; asst. prof, Mich. State, 57-60; HUMANITIES & SOC. STUDIES, CASE WESTERN RESERVE, 60-67, ASSOC. PROF, 67- Asst, Urban Redevelop. Study, 48-50; res. analyst, Chicago Housing & Redevelop. Coordinator, 50. U.S.A, 42-45. Polit. Sci. Asn; Soc. Pub. Admin; Inst. Mgt. Sci; Int. Inst. Admin. Sci. Science and government; urbanism; organization theory. Publ: New institutes of public administration overseas, Pub. Admin. Rev; Industrial location and urban development, In: Future of cities and urban redevelopment; co-auth, Federal-scientist administrators, Science, 3/63. Address: 2446 Kenilworth Rd, Cleveland Heights, Ohio 44106.

CLIFFORD, DR. EDWARD, b. Philadelphia, Pa, June 29, 21; m. 49; c. 2. PSYCHOLOGY. A.B, Roosevelt Col, 49; M.A, Chicago, 50; Ph.D, Minnesota, 57. Instr. child adolescent & introd. psychol, Massachusetts, 54-58; psychologist, Child Res. Coun, Colorado, 58-61; res. psychologist, Children's Asthma Res. Inst. & Hosp, 62-63; res. assoc, inst. behav. sci, Colorado, 63-65; ASST. PROF. MED. PSYCHOL. & LECTR. PSYCHOL, DUKE, 65- Sig.C, U.S.A, 42-46. AAAS; Psychol. Asn; Soc. Res. Child Develop; Cleft Palate Asn. Comparative psychology of clinical populations; body image; self-concepts. Address: 920 Monmouth Ave, Durham, N.C. 27701.

CLIFFORD, SISTER MARY DORITA, Asian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLIFFORD, PROF. PAUL I(NGRAHAM), b. Martinsburg, W.Va, Jan. 22, 14; m. 50. EDUCATIONAL PSYCHOLOGY. B.S, Pa. State Teachers Col.(Shippensburg), 38, A.M, Atlanta, 48; Gen. Ed. Bd. fel, Chicago, 50-51, Ph.D.(ed. psychol), 53. Prof. chem, Paine Col, 47-48; instr. ed. psychol, ATLANTA, 48-51, asst. prof, 52-54, assoc. prof, 54-57, PROF. ED. PSYCHOL. & DIR. SUMMER SCH, 57-, registr, 54-66. Staff psychologist, Am. Mgt. Psychologists, Inc, 66; summer vis. lectr, Emory Univ, 64-66. Consult, U.S. Off. Ed. Fel. AAAS; Psychol. Asn; Personnel & Guid. Asn; Coun. Measurement in Ed; Acad. Polit. & Soc. Sci; Ed. Res. Asn; Soc. Psychol. Study Social Issues. Personality organization in highly creative physical scientists; learning theory; personality dynamics; measurements and evaluation in education. Publ: Co-auth, The impact of testing programs on college preparation and attendance, In: The impact and improvement of school testing programs, Nat. Soc. Study Ed, 63; What can mass-testing programs do for-and-to the pursuit of excellence in American education, Harvard Ed. Rev, winter, 64; Testing the educational and psychological development of adolescents—ages 12-18, Rev. Ed. Res, 2/68. Address: 859 Woodmere Dr. N.W, Atlanta, Ga. 30318.

CLIFFORD, SISTER ROSE CATHERINE, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLIFFORD, ROY ARTHUR, b. Knowles, Okla, Jan. 18, 23; m. 44; c. 2. SOCIOLOGY. B.A, Oklahoma, 46, M.A, 47; fel, Texas, 47-49; Florida, 64-66. Asst. prof. sociol, Vanderbilt, 49-51; sociologist, Interam. Inst. Agr. Sci, Orgn. Am. States, 51-52; asst. prof. sociol, Mich. State, 52-57; SOCIOLOGIST, INTERAM. INST. AGR. SCI, ORGN. AM. STATES, 55- Sociol. Asn; Rural Sociol. Soc; Soc. Int. Develop; Latin Am. Studies Asn. Social change and social adjustive structures and processes; investigation of structure and function of change programs operating in Latin America. Publ: Rio Grande flood: a study of border communities in disaster; co-auth, Turrialba: social systems and social change & La sociologia rural. Address: I.I.C.A. Apartado 1815, Guatemala, Guatemala, Cent. Am.

CLIFFORD, DR. (LELAND) THOMAS, b. Detroit, Mich, Jan. 6, 33; m. 59; c. 3. PSYCHOLOGY. B.A, Mich. State, 54, M.A, 56; univ. fel, Michigan, 58-59, Nat. Sci. Found. coop. fel, 59-61, U.S. Pub. Health Serv. fel, 61-62, Ph.D. (psychol), 63. Instr. PSYCHOL, Olivet Col, 56-57; asst. prof, Eastern Michigan, 62-63; KENYON COL, 63-65, ASSOC. PROF. & CHMN. DEPT, 65- Prin. investr, Nat. Sci. Found. grant, 64-66. Psychol. Asn. Incentive phenomena in children and animals; behavioral and emotional development. Publ: Co-auth, Effect of age on the discriminative learning of color and brightness by children, Am. J. Psychol, 58; auth, Extinction following continuous reward and latent extinction, J. Exp. Psychol, 64 & Simplified computational programming for analysis of variance designs with correlated observations, Psychol. Bull, 68. Address: Dept. of Psychology, Kenyon College, Gambier, Ohio 43022.

CLIFTON, DR. CHARLES EGOLF, JR, b. Palo Alto, Calif, Dec. 12, 38; m. 65; c. 1. PSYCHOLOGY. A.B, Stanford, 60; Nat. Defense Ed. Act fel, Minnesota, 60-63, Nat. Sci. Found. fel, 63-64, Ph.D.(psychol), 64. Asst. prof. child psychol, Iowa, 64-68; ASSOC. PROF. PSYCHOL, MASSACHUSETTS, AMHERST, 68- Psychonomic Soc; Psychol. Asn; Ling. Soc. Psycholinguistics; memory; cognitive development. Publ: Co-auth, Similarity relations among certain English sentence constructions, Psychol. Monogr, 66. Address: Dept. of Psychology; University of Massachusetts, Amherst, Mass. 01002.

CLIFTON, PROF. C(HESTER) STANLEY, b. Nowata, Okla, June 22, 09; m. 39; c. 2. SOCIAL WORK. B.A, Trinity, 32; M.A, Duke, 38; M.A, Minnesota, 48, Ph.D.(soc. work), 51. Assoc. prof. sociol, Texas Christian, 44-53, dir. admissions, 50-53; PROF. SOC.WORK & DIR. SCH. SOC. WORK, OKLAHOMA, 53- Soc. worker, Southwest Clin. Alcoholic Studies, 48-50; asst. to clin. dir, Alcoholic Rehab. Prog, Fla, 60-61. Mem, Coun. Soc. Work Ed. Pub. Welfare Asn; Rehab. Asn. Alcoholism; aging; juvenile delinquency. Address: School of Social Work, University of Oklahoma, Norman, Okla. 73069.

CLIFTON, DR. JAMES A(LFRED), b. St. Louis, Mo, Jan. 6, 27; m. 47; c. 4. SOCIAL ANTHROPOLOGY. Ph.B, Chicago, 50; M.A, San Francisco State Col, 57; univ. fel, Oregon, 57-59, Soc. Sci. Res. Coun. summer fel, 58, Nat. Insts. Ment. Health fel, 59-60, Ph.D, 60. Asst. prof. ANTHROP. univ. & res. assoc. tri-ethnic res. proj, inst. behav. sci, Colorado, 60-62; asst. prof, KANSAS, 62-65, ASSOC. PROF, 65-, DIR, APPL. ANTHROP. TRAINING PROF, 65-, CO-DIR, DEVELOP. CHANGE PROG, 67- Nat. Sci. Found. Sci. faculty fel. & vis. prof, Chile, 65-66. Assoc. Current Anthrop. U.S.M.C, 51-55, Capt. Fel. Anthrop. Asn; French Soc. Oceanists. Culture and personality; cross cultural use of projective tests; cultural change and social development; urbanization processes. Publ: Klamath personalities: ten Rorschach case studies; ed. & co-auth, Cultural anthropology: essays on the scope and methods of the science of man, Houghton, 67. Address: Dept. of Anthropology, University of Kansas, Lawrence, Kans. 66044.

CLIGNET, DR. REMI, b. Reims, France, Feb. 28, 31; m. 58; c. 2. SOCIOLOGY. Lic. law, Paris, 53, lic. psychol, 58, Ph.D.(sociol), 63. Chief serv, Nat. Ministry Ed, Ivory Coast, 59-61; Center Sci. Tech. Building, 61-62; res. assoc. SOCIOL, comp. ed. center, Univ. Chicago, 63-64; asst. prof, NORTHWESTERN, 65-67, ASSOC. PROF, 67- French Navy, 56-58, Ens. African Studies Asn; Sociol. Asn. Urban sociology; sociology of the family; African studies. Publ: Co-auth, The fortunate few, Northwestern, 66; auth, Environmental change, type of descent and child rearing practices, In: The city in modern Africa, Praeger, 67. Address: Dept. of Sociology, Northwestern University, Evanston, Ill. 60201.

CLINARD, PROF. MARSHALL B(ARRON), b. Boston, Mass, Nov. 12, 11; m. 37; c. 2. SOCIOLOGY. A.B, Stanford, 32, A.M, 34; Ph.D, Chicago, 41. Chief criminal statist, U.S. Census Bur, D.C, 41-43; prin. statistician & chief anal. & reports, enforcement dept, Off. Price Admin, 43-45; assoc. prof, Vanderbilt, 45-46; SOCIOL, WISCONSIN, MADISON, 46-51, PROF, 51- Cmt. war studies, Soc. Sci. Res. Coun. res. grant, 45-47, Soc. Sci. Res. Coun. training grant, 54; Fulbright res. prof, Sweden, 54-55; Ford Found. juvenile delinquency res. & training grant, 61-62; Inst. Pub. Admin. res. grant, 63-64; summer lectr, sch. soc. studies, Glasgow, 65; Fulbright vis. prof, Makerere Univ. Col, Uganda, 68-69. Ford Found. consult, India, 58-60 & 62-63; UN expert, Asian Seminar Urban Community Develop, Singapore, winter 62; consult, soc. sci. sect, addiction res. center, Nat. Inst. Ment. Health, Lexington, Ky, 64; U.S. Dept. Labor & soc. sci. res.

center, Univ. Puerto Rico, 66-67. Mem. cmt. community orgn. curriculum develop. proj, Coun. Soc. Work Ed, 66-68. Rapporteur, UN Cong. Prev. Crime & Prev. Offenders, Stockholm, Sweden, 65. Am. Sociol. Asn; Am. Inst. Urban & Regional Affairs; Sociol. Res. Asn; Soc. Study Social Probs. (pres, 61-62); Int. Soc. Criminol; Indian Sociol. Soc. Deviant behavior; criminology; urban community development. Publ: Sociology of deviant behavior; Black market: a study of white collar crime; Slums and community development: experiments in self help, Macmillan, 66. Address: Dept. of Sociology, Social Science Bldg, University of Wisconsin, Madison, Wis. 53706.

CLINE, DR. DENZEL C(ECIL), b. Woodsfield, Ohio, Mar. 11, 03. ECONOMICS. A.B, Washington (Seattle), 25, A.M, 26; Ph.D, Princeton, 33. Asst. prof, Princeton, 27-38; assoc. prof. ECON, MICH. STATE, 38-48, PROF, 48- U.S. Fulbright award lectr, Ankara, Turkey, 62-63. Res. dir, State Dept. Revenue, Mich, 43-44; State Tax Studies, 44-45, 57-58, 61. Econ. Asn; Tax Asn; Tax Inst. Public finance; taxation; money, credit and finance; fiscal study of Lansing, Michigan. Publ: Pay the piper; co-auth, Michigan highway fiscal study, State Mich, 61 & Michigan tax reform, Mich. State Univ, 66. Address: 134 Kensington Rd, East Lansing, Mich. 48823.

CLINE, DR. HOWARD F(RANCIS), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CLINE, DR. HUGH F(RANCIS), b. Philadelphia, Pa, Mar. 6, 35; m. 56; c. 2. SOCIOLOGY. A.B, Pa. State, 56; M.S.Sc, Stockholm, 61; Ph.D.(sociol), Harvard, 66. Acting asst. prof. sociol, California, Santa Barbara, 65-66, asst. prof, 66-67; SOCIOLOGIST, RUSSELL SAGE FOUND, 67- Haynes Found. summer res. fel, 66. Mem. comput. develop. cmt, Coun. Soc. Sci. Data Arch, 67- U.S.A.F, 56-59, 1st Lt. Sociol. Asn; Soc. Study Social Probs; Asn. Comput. Mach. Comparative study of complex organizations; computer applications in the social sciences. Publ: Determinants of normative order in correctional institutions, In: Scandinavian criminology studies, Oslo Univ, 67; co-auth, Evaluation of detached worker programs, In: Controlling delinquents, Wiley, 67. Address: Russell Sage Foundation, 230 Park Ave, New York, N.Y. 10017.

CLINE, DR. MARVIN G(ERARD), Psychol, see 10th ed, Soc. & Behav. Vols.

CLINE, DR. PAUL C(HARLES), b. Clarksburg, W.Va, Dec. 26, 33; m. 58; c. 1. POLITICAL SCIENCE. A.B, West Virginia, 56, L.L.B, 57, M.A, 61; Marshall, 59-60; Ph.D.(govt), American Univ, 68. Lawyer, W.Va, 60-61; instr. POLIT. SCI, MADISON COL, 61-62, ASST. PROF, 62-, EXEC. ASST. TO PRES, 67-, coordinator fed. grants & progs, 66-67. U.S.A, 57-59. Polit. Sci. Asn. Legislation, including bill-drafting; civil liberties of minority groups, especially plain Amish-Mennonites; urban planning. Publ: Bill-drafting in executive departments and agencies, 65 & The negotiation of interstate compacts, 67, Madison Col. Studies & Res. Bull. Address: Box G, Madison College, Harrisonburg, Va. 22802.

CLINE, PROF. VICTOR B(AILEY), b. Seattle, Wash, Jan. 23, 25; m. 51; c. 8. PSYCHOLOGY. B.A, California, 49, Ph.D, 53. Res. psychologist, inst. personality assessment & res, California, 52-53; res. assoc. & res. scientist, human resources res. off, George Washington, 53-57; PROF. PSYCHOL, UTAH, 58- U.S.A, 43-46. Psychol. Asn. Personality assessment; tests and measurements; criterion development. Publ: Co-auth, The characteristics of fighters and non-fighters; Ability to judge personality assessed with a stress interview and sound film technique. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

CLOAK, DR. F(RANK) T(HEODORE), JR, b. Appleton, Wis, Sept. 14, 31; m. 54; c. 3. ANTHROPOLOGY. B.A, Wisconsin, 55, M.A, 61, Ph.D.(anthrop). 66. Instr. sociol. & anthrop, Marathon County Center, Wausau & Univ. Wisconsin, 61-63; ANTHROP, NORTH CAROLINA, CHAPEL HILL, 65-66. ASST. PROF, 66- Sig.C, U.S.A, 55-57, 1st Lt. Fel. Anthrop. Asn. Cultural change; units of culture; computer processing of cultural data; material culture; West Indies, especially Trinidad. Publ: A natural order of cultural adoption and loss in Trinidad, IRSS-Univ. North Carolina, 67; What is anthropology?, High Sch. J, 2/68; Is a cultural ethology possible?, Res. Previews, 4/68. Address: Dept. of Anthropology, University of North Carolina, Chapel Hill, N.C. 27514.

CLODIUS, PROF. ROBERT L(eROY), b. Walla Walla, Wash, Mar. 10, 21; m. 49; c. 2. AGRICULTURAL ECONOMICS. B.S, California, Berkeley, 42, Ph.D.(agr. econ), 50. Lectr. econ, California, Berkeley, 49-50, asst. prof. AGR. ECON, WISCONSIN, 50-53, assoc. prof, 53-58, PROF, 58-, V.PRES. UNIV, 64-, assoc. dean grad. sch, 58-60, chmn. dept. agr. econ, 60-62, v.pres. acad. affairs, 62-64. Vis. assoc, grad. sch. bus. admin, Harvard, 54; grants, U.S. Dept. State, 61 & Am. specialist Latin Am, 61. Consult, econ. res. serv, U.S. Dept. Agr, 61; Rockefeller Found, 64-67. Mem. cmt. agr. sci, U.S. Secy. Agr, 62-; cmt. bd. dirs, World Food Crisis, 65-; cmnr, cmn. cols. & univs, N.Cent. Asn, 66- U.S.N, 42-45, Lt. Econ. Asn; Agr. Econ. Asn.(ed, J. Farm Econ, 58-59, v.pres, Farm Econ. Asn, 60); Econo-met. Soc. Agricultural economic development and policy; academic planning, programming, budgeting, institutional development and higher educational policy; role of higher education in economic and social development. Publ: Theory of the kinked output path response & Adjustments in a growing economy-social consideration, J. Farm Econ; co-auth, Market structure analysis as an orientation for research in agricultural economics, In: Marketing and economic development, Univ. Nebraska, 67. Address: 1738 Van Hise Hall, University of Wisconsin, Madison, Wis. 53706.

CLOER, DR. HAROLD ANGUS, b. Porterville, Calif, Mar. 14, 23. EDUCATIONAL PSYCHOLOGY. B.S, Oklahoma, 44; M.S, Stanford, 47, Ed.D, 59. Instr. radio eng, East. Ariz. Jr. Col, 47-50; trainee, counseling center, Stanford, 52; ASSOC. PROF. ED. & PSYCHOL, SOUTH. OREGON COL, 52- Participant, Nat. Sci. Found. summer inst. contemporary psychol, Beloit Col, 64; Nat. Defense Ed. Act summer inst. expanding role of col. counsr, Stanford, 65. U.S.N, 45-46, Lt.(jg). Psychol. Asn; Personnel & Guid. Asn. Counseling; career development of college students; institutional research; social psychology. Publ: A scaling of vocational goal-certainty. Address: Dept. of Psychology, Southern Oregon College, Ashland, Ore. 97520.

CLOKIE, HUGH McDOWALL, b. Castleford, Eng, Mar. 13, 00. POLITICAL SCIENCE. B.A, Saskatchewan, 18, M.A, 19; Harvard, 19-20; B.A, Oxford, 23, M.A, 27. Asst. prof. polit. sci, Rutgers, 24-31; Stanford, 31-38; prof. govt, Manitoba, 38-50; lectr. polit. sci, California, 50-65; RETIRED. Acting instr, Stanford & Washington (Seattle), 24; N.Y. Univ, 26-28; vis. prof, Stanford, 48; Vanderbilt, 55-56; Toronto, 61-62; Louisiana 63-64; Virginia, 66-67. Polit. Sci. Asn; Can. Polit. Sci. Asn. Comparative government; parties; colonial administration. Publ: Origin and nature of constitutional government; Royal commissions of inquiry; Canadian government and politics. Address: 7693 Lakeville Rd, Petaluma, Calif. 94952.

CLORE, DR. GERALD LEWIS, JR, b. St. Paul, Minn, Mar. 12, 39; m. 62. PSYCHOLOGY. B.A, Southern Methodist, 61; Ph.D.(psychol), Texas, 66. ASST. PROF. PSYCHOL, ILLINOIS, URBANA, 66- Psychol. Asn. Personality and social psychology, especially interpersonal attraction as a function of personality and attitudinal similarity. Publ: Co-auth, Predicting interpersonal attraction toward strangers presented in three different stimulus modes, 4: 239-240 & Response discrepancy versus attitude similarity-dissimilarity as determinants of attraction, 7: 397-398, Psychonomic Sci. & Effectance arousal and attraction, J. Personality & Soc. Psychol, 6: 638. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61801.

CLOSE, DR. RICHARD B, b. Pittsburgh, Pa, Nov. 20, 32; m. 56; c. 3. POLITICAL SCIENCE. A.B, Pittsburgh, 56; M.A, Massachusetts, 60, Ph.D. (polit. sci), 67. ASST. PROF. POLIT. SCI, WAYNESBURG COL, 67- U.S.A.F, 56-66, Capt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. International relations and comparative government; comparative military policies; politics and government of Germany; American foreign policy. Address: Dept. of Political Science, Waynesburg College, Waynesburg, Pa. 15370.

CLOUGH, PROF. DONALD J, Opers. Res, see Suppl. II to 11th ed, Phys. & Biol. Vols.

CLOUGH, DR. ELLIS B(RADY), b. Ellston, Iowa, Oct. 1, 00; m. 28; c. 2. AGRICULTURAL ECONOMICS. B.S, Iowa State, 28; M.S, Minnesota, 41; Ph.D.(agr. ed), Cornell, 46. Instr. agr. ed, col. agr, Minnesota, 40-41; asst. rural agr. ed, sch. ed, Cornell, 41-44; prog. specialist, U.S. Off. Ed, 44-45; int. agr. develop. serv, U.S. Dept. Agr, 45-66; RETIRED. Planning and evaluation of rural agricultural development in foreign countries; training of leaders and technicians; development of colleges, schools and training centers. Address: 500 Rockford Rd, Wheaton, Md. 20902.

CLOUGH, DR. L. BRADLEY, b. Oak Park, Ill, Dec. 2, 28; m. 60; c. 2. PSYCHOLOGY. B.A, Bridgeport, 53, M.S, 57; B.S, South. Conn. State Col, 54; Ph.D.(psychol), Connecticut, 65. Teacher, retarded & disturbed children, Town of Stratford, 54-56; instr. psychol, Quinnipiac Col, 56-60, asst. prof. & dir. psychol. servs, 60-62; dir. psychol. exam. prog, Connecticut, 62-65; clin. & sch. psychologist progs, Idaho, 65-66; HEAD DEPT. PSYCHOL, MOREHEAD STATE, 66- Consult, East. Ky. Develop. Corp, 66-68. Mem, Coun. Except. Children. U.S.N, 45-47. Psychol. Asn; Asn. Ment. Deficiency. Personality and social factors associated with academic success; development of multi-variant instruments to measure factors that influence utilization of intellect for goal attainment; learning disorders in school children. Address: 1 Ward Oates Dr, Morehead, Ky. 40351.

CLOUTIER, DR. DANIEL R, b. Skowhegan, Maine, Feb. 24, 24. POLITICAL SCIENCE, ECONOMICS. A.B, Bates Col, 49; M.P.A, Michigan, 51; Ph.D, Alabama, 61. Trainee orgn. & mgt, Econ. Co-op. Admin, 51-52; consult. orgn, State Bur. Taxation, Maine, 52; budget & planning officer, European Regional Off, Mutual Security Agency, 52-55; assoc. res. dir, Legis. Tax Surv. Cmt, Ala, 55-57; instr. polit. sci, Alabama, 59-61; PROF. PUB. ADMIN, GEORGE WASHINGTON, 61- U.S.A, 43-46, Sgt. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. State taxation and tax administration. Publ: Co-auth, Economy, employment and unemployment of West Virginia; Alabama revenues; Financing education in Alabama. Address: School of Government & Business Administration, George Washington University, Washington, D.C. 20006.

CLOVER, PROF. VERNON T(HOMAS), b. Winfield, Kans, Apr. 22, 10. ECONOMICS. B.S, Ft. Hays Kans. State Col, 34, M.S, 35; Ph.D, Colorado, 37. Assoc. prof. econ, Sterling Col, 40-41; from asst. prof. to assoc. prof. econ. & exec. secy. res. cmt, Ft. Hays Kans. State Col, 41-46; prof. ECON. & head dept, Northwest. State Col, 46-47; from assoc. prof. to PROF, TEX. TECH. COL, 47- Econ. Asn. State and local taxation. Publ: Research methods in economics and business. Address: Dept. of Economics, Texas Technological College, Lubbock, Tex. 79409.

CLOVIS, MAJ. E(RNEST) R(OBERT), U.S.A, Psychol, see 10th ed, Soc. & Behav. Vols.

CLOW, DR. (RUTH) MAURINE, b. Grafton, N.Dak, Sept. 30, 08. PSYCHOLOGY. B.A, Stanford, 34, M.A, 36, Ph.D.(psychol), 46; summer, Columbia, 42. Counsr. & teacher, Sarah Dix Hamlin Sch, Calif, 35-36; asst. to dean women, Stanford, 36-38; dean women, Whitman Col, 38-46; assoc. prof. PSYCHOL, MONTANA, 46-50, PROF, 50-, ASSOC. DEAN STUDENTS, 46- Address: 104 Main Hall, University of Montana, Missoula, Mont. 59801.

CLOWARD, PROF. RICHARD A(NDREW), b. Rochester, N.Y, Dec. 25, 26; m. 51; c. 4. SOCIOLOGY. B.S, Rochester, 47; M.S.W, Columbia, 50, Ph.D, 59. PROF. SOC. WORK, N.Y. SCH. SOC. WORK, COLUMBIA, 54- Dir. res, Mobilization Youth, 60- Dennis Carroll award, Int. Soc. Criminol, 65. U.S.N, 44-46; Med.Serv.C, 51-54, 1st Lt. Sociol. Asn; Asn. Social Workers. Social welfare; criminology; delinquency; penology. Publ: Co-auth, Social perspectives on behavior, Delinquency and opportunity & Theoretical studies in social organizations of the prison. Address: New York School of Social Work, Columbia University, 2 E. 91st St, New York, N.Y. 10028.

CLOWER, PROF. R(OBERT) W, b. Pullman, Wash, Feb. 13, 26; m. 46; c. 5. ECONOMICS. B.A, State Col. Wash, 48, M.A, 49; Rhodes scholar, Oxford, 49-52, Nuffield student, 50-52, B.Litt, 52. Instr. ECON, State Col. Wash, 48-49, asst. prof, 52-56; asst. tutor, New Col, Oxford, 50-52; assoc. prof, NORTHWESTERN, 57-63, PROF, 63-, chmn. dept, 58-64. Vis. prof, Univ.

Punjab, Pakistan, 54-56; Keynes vis. prof, Essex, 65; Guggenheim fel, 65-66. U.S.A, 43-46. Econ. Asn; Economet. Soc; Math. Soc; Royal Econ. Soc. Mathematical economics; econometrics; theory of capital, interest and price determination. Publ: Co-auth, Growth without development, Northwestern Univ, 66. Address: Dept. of Economics, Northwestern University, Evanston, Ill. 60201.

CLUCAS, GEORGE GORDON, b. Gaastra, Mich, Aug. 27, 20; m. 47; c. 3. PUBLIC ADMINISTRATION, POLITICAL SCIENCE. A.B, Michigan, 46, M.P.A, 48. Sr. budget analyst, legis. analyst, Calif, 48-56; dean finance & develop, Calif. State Polytech. Col, 56-62; chief budget planning, Calif. State Col. trustees, 62-66; RES. ASSOC, SOUTHERN CALIFORNIA, 66- Soc. Pub. Admin; Polit. Sci. Asn. Address: 1508 Espinosa Circle, Palos Verdes Estates, Calif. 90274.

CLUNE, DR. FRANCIS JOSEPH, JR, b. San Antonio, Tex, Feb. 23, 30; m. 57; c. 3. ANTHROPOLOGY. B.A, California, Berkeley, 57; Ph.D.(anthrop), California, Los Angeles, 63. Teaching asst. ANTHROP, California, Los Angeles, 58-60; asst. prof, San Fernando Valley State Col, 60-61; instr, Georgia, 61-63, asst. prof, 63-67; ASSOC. PROF, STATE UNIV. N.Y. BROCKPORT, 67- Mem. staff coop. res. proj, Univ. Georgia Anthrop. Curriculum Proj, 64-67. U.S.A, 51-54. Anthrop. Asn; Soc. Am. Archaeol; Archaeol. Inst. Teaching anthropology in the elementary schools; Mesoamerican archaeology; archaeology in the New World; technology. Publ: Co-auth, Waterfall cave site, 60 & auth, Some comments on Borhegyi's interpretation of certain Mesoamerican..., 63, Am. Antiq; co-auth, Anthropology curriculum project, Univ. Georgia Curriculum Proj, 65, 66. Address: Dept. of Sociology, State University of New York College at Brockport, Brockport, N.Y. 14420.

CLUTE, PROF. LAUREN VAN EPS, b. Amsterdam, N.Y, Dec. 12, 25; m. 47; c. 4. INDUSTRAIL ECONOMICS. B.S, Skidmore Col, 50; M.B.A, Siena Col, 56. Plant acct, Van Raalte Co, Inc, 50-53, personnel mgr, 51-53; purchasing agent & supt. serv, Gen. Mutual Ins. Co, 53-56; instr. econ. & bus. admin, ST. LAWRENCE, 56-58, asst. prof, 58-63, ASSOC. PROF. ECON, 63- Instr, Skidmore Col, 56-; Am. Inst. Banking, 62- U.S.N, 43-46. Econ. Asn; Am. Acct. Asn. Accounting system development and machine application; age discrimination in employment practices; impact of automation onorganized labor; federal antitrust; public utility regulation; financial management. Publ: Co-auth, Principles of accounting & Principles of marketing. Address: Dept. of Economics, St. Lawrence University, Canton, N.Y. 13617.

CLUTE, DR. ROBERT E(UGENE), b. Earlville, Iowa, July 12, 24; m. 47; c. 2. INTERNATIONAL LAW, COMPARATIVE GOVERNMENT. B.A, Alabama, 47; M.A, George Washington, 54; Ph.D, Duke, 58. Selector & control officer, U.S. Displaced Persons Cmn, Germany, 48-50; air intel. specialist, U.S. Dept. Air Force, Austria, 51-54; instr. polit. sci, Duke, 56-57, res. assoc, commonwealth studies center, 57-58; vis. asst. prof. POLIT. SCI, Tulane, 58-59; asst. prof, Nevada, 59-62; ASSOC. PROF, GEORGIA, 62- Fulbright lectr. & head dept, Sierra Leone, 67-68. U.S.A, 43-46. Polit. Sci. Asn; Soc. Int. Law. International law, especially United States treaties and the role of the British Commonwealth; political development, especially African Commonwealth. Publ: International legal status of Austria, Martinus, Nijhoff, 62; co-auth, The international law standard and commonwealth developments, Duke Univ, 67. Address: Dept. of Political Science, University of Georgia, Athens, Ga. 30601.

CLYDE, PROF. DEAN J, b. Ames, Iowa, Jan. 28, 22. PSYCHOLOGY. B.A, Pa. State, 42, M.S, 47, Ph.D.(psychol), 50. Psychologist, U.S. Govt, Wash, D.C, 51-52; consult. psychologist, St. Thomas, Virgin Islands, 53-57; res. psychologist, Nat. Inst. Ment. Health, 57-60; dir. biomet. lab, George Washington, 60-63; PROF. PSYCHOL, MIAMI (FLA), 63- Assoc. prof, North Carolina, 54. Intel.C, U.S.A, 43-46. Psychol. Asn; Biomet. Soc; Col. Neuropsychopharmacol. Application of computers to psychological and medical research. Publ: Manual for the Clyde Mood scale, 63 & co-auth, Multivariate statistical programs, 66, Univ. Miami; Drugs and placebos: a model design, Psychol. Reports, 62. Address: Biometric Lab, University of Miami, P.O. Box 9175, Coral Gables, Fla. 33124.

CLYMAN, DR. B(ERNARD), b. Philadelphia, Pa, Nov. 22, 16; m. 49; c. 2. ECONOMICS. B.S, Temple, 39; Ph.D.(econ), Pennsylvania, 54. Economist, War Prod. Bd, 42-43, Prod. & Resources Bd, 44-45; economist & chief retail price sect, Supreme Comdr. Allied Powers, Japan, 46; instr. & res. assoc, Delaware, 47-53; asst. prof. econ, Rhode Island, 53-57; dir. res, SUA, Inc, N.Y, 57-58; ECONOMIST, EQUITABLE LIFE ASSURANCE SOC. OF U.S, 58- Instr, Army Officers Ord. Training Sch, Aberdeen Proving Ground, Md, 48; Rockefeller Found. grant, 51-53; lectr, Pennsylvania, 56; prof. lectr, St. John's (N.Y), 61-66. Consult, Del. State Hosp, 51. Econ. Asn; Asn. Bus. Econ; Statist. Asn. Business fluctuations and forecasting; insurance investments; finance; long range planning. Publ: Effect of aggregate vs. per capita income per unit ranking on personal income size distributions, Rev. Econ. & Statist; Problems of international comparisons of income and product, Studies Income & Wealth; Projecting the future growth of the economy, J. Chartered Life Underwriter, fall 63. Address: 18 Oaks Hunt Road, Great Neck, N.Y. 11020.

CLYMER, PROF. THEODORE W(ILLIAM), b. St. Paul, Minn, Apr. 2, 27; m. 47; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, River Falls State Col, 49; M.A, Minnesota, 51, Ph.D.(ed. psychol), 52. From asst. to instr. elem. ed. & ed. psychol, MINNESOTA, MINNEAPOLIS, 50-52, asst. prof. ed, elem. ed. & ed. psychol, 52-59, PROF. ED, 59- Demonstration elem. teacher, lab. sch, River Falls State Col, 52-53. Consult, pub. schs, Minn, 53-54. U.S.N, 45-46. Educational diagnosis and remediation; reading methods; test construction. Publ: Co-auth, Developmental reading tests; Developmental science tests. Address: 3428 Skycroft Dr, Minneapolis, Minn. 55418.

COAD, DR. L. KEITH, b. Glen Elder, Kans, Mar. 31, 17; m. 42; c. 2. OPERATIONS RESEARCH, STATISTICS. A.B, Kansas, 38; Ph.D.(phys. chem), Minnesota, 42; Chicago, 54. Teaching asst. chem, Minnesota, 38-42; res. chemist, Gen. Motors. Res. Lab, 42-46; phys. res. supvr, S.C. Johnson & Son, Inc, 47-52; sr. res. chemist, Pure Oil Co, 53-54; asst. prof. chem, Wis. State, 54-57; res. assoc. opers. res, Case, 57-58; consult. tech. writing, Erieside Assocs, Ohio, 59; STATIST. ANALYST, MINN. MINING & MFG. CO, 59- Management information systems; statistics in engineering and research. Address: Dept. of Applied Mathematics, 3M Center, St. Paul, Minn. 55101.

COALE, PROF. ANSLEY J(OHNSON), b. Baltimore, Md, Nov. 14, 17; m. 41; c. 2. ECONOMICS, DEMOGRAPHY. B.A, Princeton, 39, M.A, 41, Ph.D. (econ), 47. Res. asst, off. pop. res, Princeton, 41-42; secy. soc. implications atomic energy cmt, Soc. Sci. Res. Coun, 46-47; asst. prof. econ, PRINCETON, 47-54, assoc. prof, 55-59, PROF. ECON. & DIR. OFF. POP. RES, 59- Soc. Sci. Res. Coun. & Nat. Res. Coun. fel, Inst. Adv. Study, 48. Consult, Ford Found, Pop. Coun. & others. Mem. pop. cmt, Nat. Acad. Sci. & U.S. rep, Pop. Cmn. UN, 63-; mem. adv. cmt. pop, U.S. Bur. Census, 65-U.S.N.R, 42-46, Lt. Econ. Asn; fel. Statist. Asn; Pop. Asn. Am.(pres, 67-68). Mathematical demography; methods of estimating fertility and mortality from incomplete data; completeness of enumeration; economic effects of population growth. Publ: Co-auth, Population growth and economic development, 58, New estimates of fertility and population in the U.S, 63 & Regional model life tables and stable populations, 66, Princeton. Address: Office of Population Research, Princeton University, 5 Ivy Lane, Princeton, N.J. 08540.

COAN, PROF. RICHARD, b. Martinez, Calif, Jan. 24, 28; m. 50; c. 2. PSYCHOLOGY. A.B, California, 48, M.A, 50; U.S. Pub. Health Serv. trainee, Southern California, 53-55, Ph.D.(psychol), 55. Intern PSYCHOL, Metrop. State Hosp, Calif, 50-51; instr, Los Angeles City Col, 51-55; intern, Calif. Youth Authority, 55; res. assoc, Illinois, 55-57; asst. prof, ARIZONA, 57-60, assoc. prof, 60-64, PROF, 64- Psychol. Asn; Soc. Multivariate Exp. Psychol. Personality theory and measurement; perception. Publ: Basic forms of covariation and concomitance designs, Psychol. Bull; Facts, factors and artifacts—the quest for psychological meaning, Psychol. Rev, 64; Theoretical concepts in psychology, Brit. J. Statist. Psychol, 64. Address: Dept. of Psychology, University of Arizona, Tucson, Ariz. 85721.

COASE, PROF. RONALD H(ARRY), b. London, Eng, Dec. 29, 10; m. 37. ECONOMICS. B.Com, London, 32, Rockefeller fel, 48, D.Sc.(econ), 51. Lectr, London Sch. Econ, 38-47, reader, 47-51; PROF. ECON, Buffalo, 51-58; Virginia, 58-64; CHICAGO, 64-; ED, J. LAW & ECON, 64- Am. Econ. Asn; Royal Econ. Soc. Economic theory; economics of public utilities, government and business. Publ: British broadcasting, a study in monopoly; Nature of the firm, Economica, 37; The problem of social cost, J. Law & Econ, 60. Address: 5401 Hyde Park Blvd, Chicago, Ill. 60615.

COATE, DR. WILLIAM B(LEECKER), b. Pasadena, Calif, Sept. 23, 21; m. 41; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Cornell, 47, Ph.D.(psychol), 50. Asst. prof. psychol, Harpur Col, 50-55, chmn. dept, 53-54; asst. prof, Wellesley Col, 55-57, assoc. prof, 57-63; ASSOC. DIR. DIV. PHARMACOL, HAZLETON LABS, INC, FALLS CHURCH, 63- U.S.A, 44-46. Psychol. Asn; Psychonomic Soc. Learning and perception; psychopharmacology; method development. Address: 203 Mashie Dr, Vienna, Va. 22180.

COATES, DR. CHARLES H, b. Baton Rouge, La, Apr. 7, 03; m. 31; c. 2. SOCIAL PSYCHOLOGY. B.S, U.S. Mil. Acad, 24; M.A, La. State, 52, Ph.D. (sociol), 55. Asst. prof. SOCIOL, MARYLAND, 55-65, ASSOC. PROF, 65-Co-dir, Russell Sage Found. Proj, 57-62. U.S.A, 24-49, Col. Fel. Sociol. Asn. Industrial occupational and military sociology. Publ: Executives and supervisors: a situational theory of differential occupational mobility, Soc. Forces; Executives and supervisors: self conceptions and conceptions of each other, Am. Sociol. Rev; Role of the military sociologist in operations research, Sociol. & Soc. Res. Address: Dept. of Sociology, University of Maryland, College Park, Md. 20742.

COATES, DR. CHARLES ROBERT, b. Fairview, N.C, Nov. 2, 15; m. 42; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Lake Forest Col, 55; M.Ed, Col. William & Mary, 58; Ed.D.(psychol. found), Virginia, 65. Test & measures specialist, U.S. Army Transportation Sch, Ft. Eustis, Va, 55-58; guid. coordinator, pub. schs, Va, 58-62; ed. adv, U.S. Army Quartermaster Sch, Ft. Lee, Va, 62-65; ASSOC. PROF. COUNSR. ED. & ED. PSYCHOL, SHIPPENSBURG STATE COL, 65- Lectr, Univ. Virginia & Col. William & Mary, 60-65. Consult, Union-Bag Camp, 60-62; Dept. Pub. Instr, Pa, 66; Training Corp. Am, 66-67; Pa. Cong. Parent Teacher Asn, 67; Hagerstown Ed. TV, 67- Personnel & Guid. Asn. Counselor education; military and college tests and measures; meteorology in hurricane research; personnel measurement; personality variables; measurement and nonmeasure of personality variable of the disadvantaged. Publ: Increase your learning power, Dorrance, 64. Address: Dept. of Educational Psychology, Shippensburg State College, Shippensburg, Pa. 17257.

COATES, DR. NORMAN, b. Haifa, Brit. Mandate of Palestine, Mar. 25, 31; m. 63. INDUSTRIAL RELATIONS. B.A, Sir George Williams, 57; M.S, Cornell, 59, univ. fel. & Can. Coun. fel, 64-65, Ph.D.(indust. rels), 67. Supvr. mgt. develop, Can. Nat. Rwy, Montreal, 50-61; Ford Found. consult, Afro-Asian Orgn. Econ. Coop. & resident consult, Govt. U.A.R, 61-63; teaching asst. labor rels, N.Y. State Sch. Indust. & Labor Rels, Cornell, 63-64; Can. Dept. Labour-Univ. Res. Cmt. res. grant, indust. rels. implications of U.S-Can. econ. integration, 64-66; ASST. PROF. INDUST, WHARTON SCH. FINANCE & COMMERCE, PENNSYLVANIA, 66- Ford Found. prof, Nat. Inst. Mgt. Develop, Cairo, Egypt, 61-63. Mem, Can. Prime Minister's Task Force Labour Rels. Can, 67-68. Indust. Rels. Res. Asn; Int. Indust. Rels. Asn. Organizational theory; management development; industrial relations aspects of economic integration; collective bargaining in the United States and Canadian automobile manufacturing industries. Publ: Are firemen really necessary? Indust. & Labor Rels. Res, spring 60. Address: Wharton School of Finance & Commerce, University of Pennsylvania, Philadelphia, Pa. 19104.

COATS, MAJ. GEN. WENDELL J, U.S.A, b. Sterling, Colo, July 28, 15; m. 46; c. 3. POLITICAL SCIENCE. B.S, U.S. Mil. Acad, 40; M.A, Wisconsin, 49; Ph.D.(int. rels), Georgetown, 63. U.S. ARMY, 40-, troop officer,

39th Field Artillery Battalion, 40-45, instr. artillery tactics, Field Artillery Sch, 46-47, ed. training lit, 50-51, pub. info. officer, hq, U.S. Troops, Free Territory Trieste, 53, asst. chief staff, Allied Mil. Govt, 54, secy. gen. staff, hq, U.S. Army Europe, 55, dep. chief, orgn. & training div, Dept. Chief Staff Logistics, Dept. Army, 57-58, off. int. affairs, Off. Secy. Army, 59-60, exec. officer, First Cavalry Div, Artillery, 61, asst. chief info, Off. Chief Info, Dept. Army, 63, exec. officer, int. security affairs, Off. Secy. Defense, 64, dept. dir. logistics, hq, Europe, 65-66, CHIEF INFO, DEPT. ARMY, 67- Fel, center int. affairs, Harvard, 61-62. Polit. Sci. Asn. International relations; political communications; political and military theory. Publ: Co-auth, The selection and validation of a representive sample of U.S. daily newspapers, Univ. Wisconsin, 49; auth, Armed Forces as power: the theory of war reconsidered, Exposition, 66. Address: Dept. of The Army, Washington, D.C. 20310.

COBB, PROF. ALDRENA BEATRIX, b. Cleburne, Tex, Mar. 31, 17. PSYCHOLOGY. Fel. & Ph.D.(psychol), Texas, 53. Head med. psychol. sect, M.D. Anderson Hosp. & Tumor Inst, 52-58; PROF. PSYCHOL. & DIR. REHAB. COUNSR. TRAINING PROG, TEX. TECH. COL, 58- Consult, Hogg Found. Ment. Hyg, Texas, 52- AAAS; Psychol. Asn; Psychosom. Soc; Int. Coun. Psychol; World Fedn. Ment. Health. Role of the psychologist in a medical, as compared with a psychiatric, setting; psychophysiological components of stress as these components relate to chronic illness; psychological role of the physician in chronic illness. Publ: Mental health of cancer patients, Tex. Trends: co-auth, Psychology program in a cancer research hospital & Patient-responsible delay of treatment in cancer, Cancer. Address: Dept. of Psychology, Texas Technological College, Lubbock, Tex. 79409.

COBB, PROF. A(RTHUR) LEE, b. Clearwater, Fla, Oct. 14, 26. BUSINESS ADMINISTRATION, STATISTICS. B.S, Florida, 50, M.A, 52; Sarah H. Moss fel, Georgia, 57-59; D.B.A, Indiana, 61. Statistician, Tenn. Valley Authority, 52-54; statistician & assoc. dir. bur. bus. res, Georgia, 54-57, asst. prof. bus, 59-61; assoc. prof. statist, Missouri, 61-64; PROF. BUS. STATIST, ALABAMA, 64- Assoc, Gardner Gidley & Assocs, 67-68. Consult, Ala. Hwy. Proj, 64-68. Sig.C, U.S.A, 44-47. Statist. Asn; Econ. Asn. Business trends: business-government relations; antitrust legislation and enforcement. Address: 27-A Claymont Apt, Tuscaloosa, Ala. 35401.

COBB, BART B, JR, b. Greenville, Tex, Jan. 4, 21; m. 50. PSYCHOLOGY. B.S, E.Tex. Col, 42; M.S, Trinity (Tex), 54; Texas, 56-60; Oklahoma, 61. Res. psychologist, Sch. Aviation Med, U.S. Air Force, 47-51, 52-59, personnel lab, Wright Air Develop. Center, 59-61; CIVIL AEROMED. INST, FED. AVIATION ADMIN, 61-66, CHIEF PSYCHOMET. RES, 66- U.S.A.F, 51-52, Lt. Sci. Res. Soc; Aerospace Med. Asn; Statist. Asn. Tests and measurements; personnel selection methods. Publ: Problems in air traffic management; prediction of success in ATC school, 62, Identification and potential of aptitude test measures for selection of tower air traffic controllers, 64, & Relationships of chronological age, length of experience, and indices of job performance for air route traffic control specialists, 67, J. Aerospace Med. Address: Civil Aeromedical Institute, Federal Aviation Administration, Will Rogers Field, Oklahoma City, Okla. 73125.

COBB, DR. EDWARD S(CRIBNER), b. New York, N.Y, Feb. 28, 34; m. 59; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Columbia, 59, M.A, 63, Ph.D.(exp. psychol), 68. ASST. PROF. PSYCHOL, BARNARD COL, COLUMBIA, 63- Chem.C, U.S.A, 58-64. Control of operant behavior at the animal level; aversive reinforcement contingencies and conditioned reinforcement. Address: Dept. of Psychology, Barnard College, 606 W. 120th St, New York, N.Y. 10027.

COBB, PROF. HENRY V(AN ZANDT), b. East Orange, N.J, Feb. 22, 09; m. 32; c. 5. PSYCHOLOGY. A.B, Pomona Col, 30; Ph.D, Yale, 36. Acting prof. psychol. & philos, Furman, 34-35; instr. Eng, New Haven Woman's Col, 35-36; philos, Carleton Col, 36-42, asst. prof. PSYCHOL. & PHILOS, 42-46; PROF. & HEAD DEPT, SOUTH DAKOTA, 46-, DEAN COL. ARTS & SCI, 67- Fund Adv. Ed. faculty fel, 53; vis. prof, teachers col, Columbia, 64-65. Mem, Coun. Except. Children. U.S.N.R, 44-45. AAAS; Psychol. Asn; Asn. Ment. Deficiency. Child development; mental retardation; psychological ecology. Publ: Man's way; Role-wishes and general wishes of children, Child Develop; Problem solving as a function of problem presentation, Proc. S.Dak. Acad. Sci. Address: College of Arts & Sciences, University of South Dakota, Vermillion, S.Dak. 57069.

COBB, DEAN JACOB ERNEST, b. Morganton, N.C, Feb. 14, 10; m. 43; c. 3. PSYCHOLOGY. A.B, North Carolina, 29; M.A, Duke, 38; Ph.D, Peabody Col, 47. Teacher & prin, pub. sch, N.C, 29-41; assoc, div. instr. serv, State Dept. Ed, N.C, 41-42; from asst. prof. psychol. to assoc. prof. ed, INDIANA STATE, 46-50, PROF. ED. & PSYCHOL, 51-, DEAN SCH. GRAD. STUDIES, 65- Consult, Rohrer, Hibler & Replogle, 50-51. U.S.N.R, 42-46, Lt. Comdr. Psychol. Asn. Educational and consulting psychology; reading; programmed learning and teaching machines. Publ: Study of functional reading; Internally consistent instructional materials and the intellectual development of the child. Address: Indiana State University School of Graduate Studies, Terre Haute, Ind. 47809.

COBB, DR. JOHN CANDLER, Prev. Med, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

COBB, DR. J(OSEPH) WALTER, b. Vermillion, S.Dak, Apr. 24, 15; m. 39; c. 4. RACE & ETHNIC RELATIONS. B.A, Wyoming, 40; M.A, Southern California, 47, Ph.D.(Sociol), 53. Sr. soc. group worker youth proj, Church Welfare Bur, Los Angeles, 47-48; instr. sociol, North Dakota, 48-52; dep. probtn. officer, COUNTY OF LOS ANGELES, 52-54, consult. community orgn, 54-61, CONSULT, HUMAN RELS. CMN, 61- Summer instr, Redlands, 48. Am. Red Cross, Tex. & Europe, 43-45, Field Dir. Fel. Sociol. Asn. Social psychology; community organization. Publ: Personal familiarity and variations in stereotypes regarding Japanese, Sociol. & Soc. Res, 49. Address: 5224 Hartwick St, Los Angeles, Calif. 90041.

COBB, DR. KATHARINE, b. Minneapolis, Minn, June 4, 07; m. 27, 49; c. 2. PSYCHOLOGY. B.A, Minnesota, 28, M.A, 38, Ph.D, 44. Assoc. prof. res. family life, col. agr, Nebraska, 45-46, assoc. prof. psychol, univ, 47-49; lectr. psychol. & res. assoc. lab. human develop, grad. sch, Harvard, 50-51; guest lectr, sch. ed, Rutgers, 54-56; res. assoc. neurol. & psychiat, sch. med, Columbia, 56; temporary prin. officer, inst. personnel res, S.African Coun. Indust. & Sci. Res, 56-57; res. assoc. pediat, med. col, Cornell, 57-66; PRACTICING PSYCHOLOGIST & SCH. CONSULT, 66- Consult, med. unit & crippled children servs, Minnesota, 38-44; Vet. Admin. Ment. Hyg. Clin, Omaha, Nebr, 48-49. Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. AAAS; fel. Psychol. Asn; Soc. Res. Child Develop. Personality; mental tests; clinical psychology; infant behavior and development; methods of assessment. Address: 333 E. 69th St, New York, N.Y. 10021.

COBB, DR. SIDNEY, Epidemiol, see 11th ed, Phys. & Biol. Vols.

COBB, PROF. WHITFIELD, Math. Statist, see 11th ed, Phys. & Biol. Vols.

COBEN, PROF. STANLEY, U.S. Hist, see 5th ed, Dir. Am. Scholars. Vol. I, Hist.

COBURN, DR. HERBERT H(ENRY), b. New York, N.Y, Dec. 22, 17. PSYCHOLOGY. B.S.S, City Col. New York, 38; M.Ed, Wayne, 48, Ed.D.(counseling), 54. Res. psychologist, U.S. Dept. Navy, 48-49; counsr, Washington (Seattle), 49-50, Vet. Admin. clin. psychol. trainee, 50-52; res. assoc. Wayne, 52-54; counseling psychologist, Brockton Vet. Admin. Hosp. Mass, 54-61; consult. rehab. counseling & psychol, div. training, U.S. Off. Voc. Rehab, 61-63; res. grants assoc, Nat. Insts. Health, 63-64, scientist adminstr, Nat. Inst. Ment. Health, 64-65; res. & consult. psychologist, Sardesai Int, France, 65-67; DIR. DIV. REHAB. PRFNL. EXAM. SERV, AM. PUB. HEALTH ASN, 67- Counseling assoc. Boston, 59-61; mem. faculty. Mass. State Col. Boston, 59-61; chmn. Brockton Cmt. President's Cmt. Employ. Handicapped, 60-61; mem, Am. Bd. Counseling Serv, 62-65; counsr. training adv. cmt, Voc. Rehab. Admin, 65. U.S.A, 42-46. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn; Pub. Health Asn. Selection and training of professional and subprofessional personnel in rehabilitation. Publ: Experimental comparison of relationship-centered and problem-centered counseling, Abstract, Am. Psychologist; Experimental studies of clients' reactions to initial interviews, Human Rels; The use of psychology in rehabilitation. Rehab. Record, 7-8 63. Address: 185 West End Ave, New York, N.Y. 10023.

COCHRAN, DEAN HARRY A(LVAN), b. Elk Co, Pa, June 25, 90; m. 19; c. 3. FINANCE. B.S, Pittsburgh, 16; M.S, Temple, 24, Ed.D, 30; LL.D, La Salle Col, 34, Ursinus Col, 52. Prof. finance, TEMPLE, 21-24, treas, 45-55, v.pres, 55-60, dir. SCH. BUS, 24-34, dean, 34-60, EMER. DEAN, 60- Econ. Asn. Address: Elgin, S.C. 29045.

COCHRAN, PROF. JOHN A(RTHUR), b. Des Moines, Iowa, Sept. 25, 21; m. 43; c. 3. ECONOMICS. A.B, Drake, 43; A.M, Harvard, 48, fel, 48-49, Ph.D. (econ), 49. Asst. ECON, Mass. Inst. Tech, 47-48; asst. prof, Illinois, 49-57; assoc. prof, Southern Illinois, 57-62; PROF, ARIZONA STATE, 62- Economist, Fed. Reserve Bank, N.Y, 56-57. Mil. Intel, 43-46, 51-52, 1st Lt. Econ. Asn; Finance Asn. Federal reserve policy; business cycles: money and banking; monetary economics. Publ: Money, banking and the economy; Federal reserve policy and treasury debt-management in a period of credit restraint, Econ. Int; Postwar monetary policy, Current Econ. Comment. Address: Dept. of Economics, Arizona State University, Tempe, Ariz. 85281.

COCHRAN, DR. JOHN S(TEPHENS), b. Bessemer, Ala, Apr. 29, 31. FINANCE. B.A, Southwestern at Memphis, 52; M.A, Harvard, 53, Ph.D.(hist), 61; Oxford, 53. Asst. prof. econ, Birmingham-South. Col, 61-65; ASSOC. PROF. FINANCE, GA. STATE COL, 65-, acting chmn. dept, 67-68. Finance Asn; Financial Anal. Fedn; Mkt. Asn; Mgt. Asn. Business history; entrepreneurship in the post Civil War transportation development of the Pacific Northwest; security analysis; investment management. Publ: Interest rates and stock market forecasting, Atlanta Econ. Rev, 2-3/68; The economic significance of the early transcontinental railroads in the Pacific Northwest, Ore. Hist. Quart, (in press). Address: Dept. of Finance, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

COCHRAN, PROF. KENDALL P(INNEY), b. Newton, Kans, Oct. 12, 24. ECONOMICS. B.A, Texas, 49, M.A, 50; Ph.D.(econ), Ohio State, 55. Instr. ECON, Ohio State, 53-55, asst. prof, 55-57; assoc. prof, NORTH TEXAS STATE, 57-59, PROF, 59-, DIR, NAT. SCI. FOUND. ECON. INST, 64- Vis. lectr, Oklahoma, 66. Asn. Evolutionary Econ. Economic education. Publ: Impact of guaranteed annual income on philosophy and practice of taxation. Doubleday, 68; Every man his own economist. N.Tex. Bus. Studies, 64; Goals for economic education, Atlanta Econ. Rev, 65. Address: Dept. of Economics & Sociology, North Texas State University, Box 5172 N.T. Station, Denton, Tex. 76203.

COCHRAN, PROF. WILLIAM G(EMMELL), Statist, see 11th ed, Phys. & Biol. Vols.

COCHRANE, DR. CARL MURRAY, b. Cleveland, Tenn, Oct. 6, 27; m. 49; c. 5. PSYCHOLOGY. B.A, Guilford Col, 50; Ph.D.(psychol), North Carolina, 59. Instr. psychol, sch. med, North Carolina, 48-60, asst. prof, 60-64, assoc. prof, 64-67, chief inpatient psychol. serv, 63-65, dept. res. consult, 65-67; PROF. PSYCHOL, BEHAV. SCI. CENTER & DEPT. PSYCHIAT, BOWMAN GRAY SCH. MED, 67- Vis. lectr, Duke, 62-63. Consult, Vet. Admin, 62-; biomed. res. unit, U.S. Air Force, 64. U.S.A, 46-48. AAAS; Psychol. Asn. Sources of distortion in interview and questionnaire work; determinants of attitudes towards family planning. Publ: Co-auth, Reserpine-produced changes in the direction of aggressive drives, Proc. Third World Cong. Psychiat, 62, Changing treatment patterns and their relationship to double-blind tranquilizer study, J. New Drugs, 63 & Systolic blood pressure response of depressed patients to infused norepinephrine, J. Psychiat. Res, 67. Address: Behavioral Sciences Center, Bowman Gray School of Medicine, Winston-Salem, N.C. 27103.

COCHRANE, DR. JAMES D(AVID), b. Cherokee, Iowa, Sept. 4, 38. POLITICAL SCIENCE. B.A, Morningside Col, 60; M.A, Iowa, 61, Nat. Defense Ed. Act fel. & Ph.D.(polit. sci), 64. Legis. asst, U.S. House Rep, 61-62; fel, Brookings Inst, 64-65; ASST. PROF. POLIT. SCI, Western Michigan, 65-66; TULANE, 66- Summer grant, Tulane Coun. Res, 67. Polit. Sci. Asn. Central American economic integration; Latin American foreign policy and political elites. Publ: U.S. attitudes toward Central American economic integration, autumn 64 & Mexico's new Cientificos: the Diaz Ordaz cabinet, summer 67, Inter-Am. Econ. Affairs; Partisan aspects of Congressional committee staffing, West. Polit. Quart, 6/64. Address: Dept. of Political Science, Tulane University, New Orleans, La. 70118.

COCHRANE, DEAN WILLARD W(ESLEY), b. Fresno, Calif, May 15, 14; m. 42; c. 4. AGRICULTURAL ECONOMICS. B.A, California, 37; M.S, Montana State, 38, hon. LL.D, 67; Littauer fel, Harvard, 41-42, M.P.A, 42, Ph.D.(econ), 45. Economist, Farm Credit Admin, U.S. Dept. Agr, 39-41, War Food Admin, 43, bur. agr. econ, 43-47; Food & Agr. Orgn, UN, 47-48, mission Siam, 48; assoc. prof, Pa. State, 48-49, prof, 51; agr. econ, Minnesota, 51-61; dir. agr. econ. & econ. adv. secy. agr, U.S. Dept. Agr, 61-64; prof. agr. econ, MINNESOTA, MINNEAPOLIS, 64-65, DEAN, OFF. INT. PROGS, 65- Vis. prof, Wisconsin, summer 51; Chicago, 58-59. Consult, Off. Price Stabilization, 51; Cmt. Econ. Develop, 55; Agr. Mkt. Serv, 56-57; Agr. Res. Serv, 57-61; agr. adv. Senator J.F. Kennedy, 60; consult, Commodity Credit Corp, U.S. Dept. Agr, 64-; Agency Int. Develop, India, 64-65; Food & Agr. Orgn, UN, 65-; Ford Found, India, 67. Chmn. Gov. Study Cmn. Agr, Minn, 57-58; mem. Orgn. Am. States ad hoc cmt, Paraguay, 65-66; Nat. Adv. Cmn. Food & Fiber, 65-67. Distinguished Serv. award, U.S. Dept. Agr, 64. U.S.N.R, 42-43, Ens. Econ. Asn; fel. Agr. Econ. Asn.(v.pres, 54-55, pres, 59-60). Agricultural prices; food consumption and food policies; agricultural price and income policy. Publ: Co-auth, Economics of American agriculture; auth, Farm prices: myth and reality; City man's guide to the farm problem, Univ. Minnesota, 66. Address: 2225 Folwell St, St. Paul, Minn. 55108.

COCKERHAM, PROF. COLUMBUS CLARK, Quant. Genetics, see 11th ed, Phys. & Biol. Vols.

COCKRELL, DR. JOHN TYLER, b. Birmingham, Ala, Jan. 22, 22; m. 47; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Alabama, 47; Ph.D.(exp. psychol), Indiana, 53. Asst. prof. psychol, Ala. Polytech, 52-55; SOC. SCIENTIST, Rand Corp, 55-57; SYST. DEVELOP. CORP, 57- U.S.A.F, 41-45, Res, 45-, Capt. Psychol. Asn; Human Factors Soc; Research Soc. Behavior theory, theories of learning; operant conditioning; team training and procedures; experimental design. Address: 8020 Park Overlook Dr, Bethesda, Md. 20034.

COCKROFT, DR. LINDON UHLE, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

CODDING, PROF. GEORGE A(RTHUR), JR, b. Salem, Ore, June 23, 23; m. 50; c. 4. POLITICAL SCIENCE. B.A, Washington (Seattle), 43, fel, 47, M.A, 48; Dr. polit. sci, Geneva, 52. Tech. asst, Int. Telecommunication Union, Switz, 49; lectr. POLIT. SCI, Pennsylvania, 53-55, asst. prof, 55-61; assoc. prof, COLORADO, 61-65, PROF, 65- Soc. Sci. Res. Coun. grant-in-aid, 55; Guggenheim fel, 57-58. Consult, UNESCO, 57-59; consult. to secy. gen. of Int. Telecommun. Union, 64-65. Mem. study group on int. orgn, European Center of Carnegie Found, 65-67; Gen. Elec. Space Broadcast adv. bd, 67- U.S.N, 43-46, Lt.(jg). Polit. Sci. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci; Int. Polit. Sci. Asn. International law and organization; comparative government. Publ: International Telecommunication Union; Federal government of Switzerland; Universal Postal Union: coordinator of the international mails, N.Y. Univ, 64. Address: Dept. of Political Science, University of Colorado, Boulder, Colo. 80302.

CODDINGTON, DEAN CLINTON, b. Sioux Falls, S.Dak, June 11, 32; m. 55; c. 4. ECONOMICS, BUSINESS ADMINISTRATION. B.S, S.Dak. State, 54; M.B.A, Harvard, 59. RES. ECONOMIST, INDUST. ECON. DIV, DENVER RES. INST, UNIV. DENVER, 59- U.S.A.F, 54-57, Res, 57-, Capt. Mkt. Asn. Marketing; regional economics; business policy and planning; cost-effectiveness analysis; technology transfer; analysis of federal research and development policy. Publ: Co-auth, The channels of technology acquisition in commercial firms, and the NASA technology dissemination program, Clearinghouse Fed. Sci. & Tech. Info, 6/67; co-auth, The scientific complex—proceed with caution, 1-2/65 & Diversification guides for defense firms, 5-6/66, Harvard Bus. Rev. Address: Denver Research Institute, University of Denver, Denver, Colo. 80210.

CODERE, PROF. HELEN, b. Winnipeg, Man, Sept. 10, 17; nat. ANTHROPOLOGY. B.A, Minnesota, 39; Ph.D, Columbia, 50. Instr. ANTHROP, Vassar Col, 46-52, asst. prof, 52-54, assoc. prof, 55-58, prof, 58-63; mem. faculty, Bennington Col, 63-64; PROF, BRANDEIS, 64- Vis. lectr, British Columbia, 54-55; Guggenheim fel, Africa, 59-60; lectr, Northwestern, 63. Fel. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc. Indians of North Pacific Coast; sociocultural change; economic anthropology. Publ: Ed, Kwakiutl ethnography, Univ. Chicago, 67; auth, Power in Ruanda, Anthropologica; Exchange and display, In: International encyclopedia of the social sciences, 68. Address: Dept. of Anthropology, Brandeis University, Waltham, Mass. 02154.

CODERRE, DR. HARRY L(OWELL), b. Holyoke, Mass, Mar. 16, 15; m. 43; c. 1. PSYCHOLOGY. Milton fel, Harvard, 48-49, Ed.D, 49. Consult. psychologist, ROHRER, HIBLER & REPLOGLE, 49-52, regional dir, 52-53, partner, 53-62, MANAGING PARTNER, 62- Mil. Intel, U.S.A, 42-45. Psychol. Asn. Executive development; selection of professional people; communication in business settings. Publ: Co-auth, Managers for tomorrow, New Am. Library, 65; auth, Analysis of principles of vocational guidance, Harvard Ed. Rev; Selection of certified public accountants, Calif. Acct. Address: Rohrer, Hibler & Replogle, 26 O'Farrell St, San Francisco, Calif. 94108.

CODKIND, DR. DOROTHY, b. New York, N.Y, Oct. 1, 27. PSYCHOLOGY. B.A, Queens Col.(N.Y), 49; M.A, City Col. New York, 50; Chicago, 50-52; Ph.D.(psychol), Kansas, 64. Intern clin. psychol, Michael Reese Hosp, Chicago, Ill, 50-51; trainee, Vet. Admin, Kans, 53-55; intern clin. psychol, Topeka State Hosp, Kans, 55-56; staff clin. psychologist, Osawatomie State Hosp, 56-62; ASST. PROF. PSYCHOL, Missouri, Kansas City, 62-64; STATE UNIV. N.Y. COL. POTSDAM, 64- Psychol. Asn. Assessing dimensions of mental health in terms other than absence of obvious pathology. Address: Dept. of Psychology, State University of New York at Potsdam, Potsdam, N.Y. 13676.

CODNER, PROF. BERNARD, Mkt, see 10th ed, Soc. & Behav. Vols.

CODY, PETER M(ALCOLM), b. Paris, France, July 30, 25; U.S. citizen; m. 57; c. 5. ECONOMICS, INTERNATIONAL RELATIONS. B.A, Yale, 47, M.A, 48, univ. fel, 47-50. Instr. econ, Yale, 48-50; economist, bus. conditions sect, Fed. Reserve Bd, D.C, 50-54; economist, U.S. Opers. Mission, Mex, 54-56, prog. officer & econ. adv, 56-57, prog. officer, Cent. Am, 57-59; Laos desk officer, Int. Coop. Admin, D.C, 59-61; prog. officer, FOR. AID, U.S. AGENCY INT. DEVELOP, Cambodia, 61-63, dept. dir, 63-64, dir, Off. Vietnam Affairs, 64-65, dep. dir, Laos, 65-67, MISSION DIR, PARAGUAY, 67- U.S.N.R, 43-, Lt. Econ. Asn. Economic development of underdeveloped countries; monetary policy and central banking in underdeveloped countries; structure of American industry and the measurement of industrial production. Publ: Naturaleza de los activos a corto plazo de El Salvador en Estados Unidos, Bull. Centro de Estudios Monetarios Latino Americanos. Address: U.S. Dept. of State, Agency International Development, Washington, D.C. 20523.

COE, PROF. JOFFRE L(ANNING), b. Greensboro, N.C, July 5, 16; m. 40; c. 2. ANTHROPOLOGY. A.B, North Carolina, 44; fel, Michigan, 47-48, M.A, 48, Gen. Ed. Bd. fel, 52-53, Ph.D, 59. Asst. dir, LAB. ANTHROP, NORTH CAROLINA, CHAPEL HILL, 38-42, DIR, 48-, PROF. ANTHROP, 65-, instr, 48-53, asst. prof, 53-60, assoc. prof, 60-65. State archaeologist, 61- U.S.A.F, 42-46, Res, 46-, Maj. AAAS; Soc. Archaeol. North American archaeology; photography; aerial mapping. Publ: Cultural sequence of the Carolina piedmont; Foundations of Carolina prehistory; Formative cultures of the Carolina piedmont, Am. Philos. Soc, 64. Address: Dept. of Anthropology, University of North Carolina, Box 561, Chapel Hill, N.C. 27514.

COE, DR. MICHAEL DOUGLAS, b. New York, N.Y, May 14, 29; m. 55; c. 4. ANTHROPOLOGY. A.B, Harvard, 50, Ph.D.(anthrop), 59. Asst. prof. ANTHROP, Tennessee, 58-60; instr, YALE, 60-62, asst. prof. 62-63, assoc. prof, 63-68, PROF. & CHMN. DEPT, 68- Adv, Bliss Collection Pre-Columbian Art, D.C, 63- Fel. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. Archaeology of Mexico and Central America. Publ: Mexico, 62 & The Maya, 66, Praeger; La Victoria, an early site on the Pacific Coast of Guatemala. Address: Dept. of Anthropology, Yale University, New Haven, Conn. 06520.

COE, PAUL F(RANCIS), b. Horton, Kans, Oct. 29, 09; m. 33; c. 3. ECONOMICS, STATISTICS. Ph.B, Chicago, 32. Economist, oper. statist. sect, Fed. Housing Admin, 38, asst. chief sect, 39-42, chief, 42-46, anal. statistician & economist, 47-65; dir. res, Pop. Reference Bur, D.C, 65-67; CONSULT, 67- Mem. fed. cmt. standard metropolitan statist. areas, U.S. Bur. Budget, 50-65, participant, interagency adv. cmt. on pop. & housing censuses of 1950 and 1960; mem. tech. cmt. area definitions, 60-65; participant Pop. & Housing Census Users Conf, 66. Pop. Asn. Market analysis; housing economics; demography; operating statistics. Publ: FHA homes in metropolitan districts, 1934-1940; The nonwhite population surge to our cities, J. Land Econ; Population increases in metropolitan areas, J. Am. Statist. Asn. Address: 601 N. Buchanan St, Arlington, Va. 22203.

COE, DR. ROBERT K(IRK), b. Utica, N.Y, Jan. 2, 30; m. 52; c. 3. ECONOMICS. B.S, Syracuse, 57, M.B.A, 58, Ph.D.(econ), 64. Group leader, Gen. Elec. Co, N.Y, 52-57; instr. prod. mgt, Syracuse, 57-60; asst. prof. indust. mgt, Sacramento State Col, 60-64, asst. dir. real estate res. group, 61-64; chmn. mgt. dept, Nevada, 64-66; HEAD DEPT. BUS. ADMIN, COL. BUS, VA. POLYTECH, 66- Mem. nat. panel arbitrators, Am. Arbit. Asn, 66- U.S.M.C, 48-52. Econ. Asn; Soc. Adv. Mgt. Effect of an industrial location on land values. Publ: Co-auth, Economic impact of the Sacramento-Yolo Port, State of Calif, 64, ATGSB as used by graduate schools of business, AACSB Bull, 1/67 & Editorial policies of major economic journals, Quart. Rev. Econ. & Bus, winter 67. Address: College of Business, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

COE, DR. ROBERT STANFORD, b. Cincinnati, Ohio, July 9, 19; m. 50; c. 3. PSYCHOLOGY. B.S, Miami (Ohio), 41; M.S, Houston, 48, Ph.D, 57. Res. psychologist, U.S. Dept. Air Force, 48-49; instr. psychol. & counsr, Houston, 49-52; personnel res. analyst, Chance Vought Corp, 52-56; staff asst. to v.pres, Dresser Industs, Inc, 56-58; indust. rels. adminstr, Ling-Temco-Vought, Inc, 58-64; ASSOC. PROF. MGT, STEPHEN F. AUSTIN STATE COL, 64- Lectr, Arlington State Col, 60-64. Consult, U.S. Dept. Army, 60-61; mgt. consult, 62- U.S.N, 41-45, Lt.(jg). Psychol. Asn. Selection, motivation and development of supervisors and managers; interpersonal relations in industry; management-employee communications; leadership. Publ: Common sense in manager development, Adv. Mgt. J. Address: Stephen F. Austin State College, Nacogdoches, Tex. 75961.

COE, DR. RODNEY MICHAEL, b. Marquette, Mich, Nov. 10, 33; m. 54; c. 4. SOCIOLOGY. B.S, Iowa State, 55; M.A, Southern Illinois, 59; Ph.D.(sociol), Washington (St. Louis), 62. Asst. prof. SOCIOL, WASHINGTON (ST. LOUIS), 62-67, ASSOC. PROF, 67- U.S.A, 56-58, Capt. Sociol. Asn; Pub. Health Asn; Geront. Soc. Medical sociology; aging. Publ: Conflict interference and aggression: computer simulation of a social process, Behav. Sci, 4/64; co-auth, social-psychological factors influencing the use of community health resources, Am. J. Pub. Health, 7/65; Auth, professional perspectives on aging, Gerontologist, 6/67. Address: Dept. of Sociology, Washington University, St. Louis, Mo. 63130.

COE, DR. WILLIAM C, b. Hanford, Calif, Oct. 22, 30; m. 53; c. 2. PSYCHOLOGY. B.S, California, Davis, 58; Ph.D.(psychol), California, Berkeley, 64. Clin. psychol. trainee, Vet. Admin. Hosp, San Francisco, 62-63; staff psy-

chologist, Langley-Porter Inst, Calif, 64-67; ASST. PROF. PSYCHOL, FRESNO STATE COL, 66- U.S.A.F, 51-55, 1st Lt. Psychol. Asn. Hypnosis; psychological diagnostic testing; family interactions. Publ: An experimental demonstration of hypnosis as role enactment, J. Abnorm. Psychol, 66; Hypnosis as role enactment: the role demand variable, Am. J. Clin. Hypnosis, 66. Address: Dept. of Psychology, Fresno State College, Fresno, Calif. 93726.

COELHO, DR. GEORGE V(ICTOR), b. Bombay, India, Nov. 9, 18; m. 50; c. 3. SOCIAL & CLINICAL PSYCHOLOGY. M.A, Bombay, 41; M.A, London, 51; Ph.D, Harvard, 56. Psychologist, personnel selection, Serv. Selection Bd, Ind, 47-50; res. tutor soc. rels, Lowell House, Harvard Col, 53-56; asst. prof. psychol, Haverford Col, 56-57, acting chmn. dept, 57-58; vis. scientist, Nat. Inst. Ment. Health, 58-64; prog. specialist youth activities, UNESCO, France, 64-66; chief human ecol. sect, field studies br, NAT. INST. MENT. HEALTH, 66-67, CHIEF FIELD STAS. SECT, CENTER EPIDEMIOL. STUDIES, DIV. FIELD INVESTS, 67- Res. assoc, center int. studies, Mass. Inst. Tech, 54-56; staff consult, P.R. Inst. Psychiat, 60-64; Nat. Insts. Health proj. officer, Univ. Poona, 61-64. Indian Army, 43-50. AAAS; Psychol. Asn. Coping behavior in personality development; psychosocial epidemiology; cross-cultural education; transcultural psychiatry; social structure and mental health; methods for assessing community mental health. Publ: Changing images of America, Center Int. Studies, M.I.T. Press, 58; Use of a student-TAT to assess coping behavior in freshmen, Psychol. Reports, 62; Coping strategies in a new learning environment, Arch. Gen. Psychiat, 63. Address: Center for Epidemiologic Studies, Division of Field Investigations, National Institute of Mental Health, Barlow Bldg. Room A-15, 5454 Wisconsin Ave, Chevy Chase, Md. 20203.

COELHO, PROF. R(ICHARD) J(OSEPH), Speech, Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

COEN, DR. EDWARD, b. New York, N.Y, June 2, 19; m. 49; c. 2. ECONOMICS. B.A, Hobart Col, 48; M.A, Yale, 49; Ph.D.(econ), London, 53. Asst. prof. ECON, MINNESOTA, MINNEAPOLIS, 53-57, ASSOC, PROF, 57- U.S.N.R, 42-45. Econ. Asn. Economic theory. Publ: Decreasing costs and the gains from trade, Economica; Theory of bargaining, South. Econ. J. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

COFER, PROF. CHARLES N(ORVAL), b. Cape Girardeau, Mo, June 1, 16; m. 40; c. 2. PSYCHOLOGY. A.B. Southeast Mo. State Col, 36; A.M, Iowa, 37; Ph.D.(psychol). Brown, 40. Asst. psychol, Brown, 37-40; jr. occup. analyst, Soc. Security Bd, 40-41; instr. PSYCHOL, George Washington, 41-43, asst. prof, 46-47; assoc. prof, Maryland, 47-51, prof, 51-59; N.Y. Univ, 59-62; vis. prof, California, Berkeley, 62-63; prof, Pa. State, 63-67; prof. & chmn. dept, Maryland, 67-68; PROF, PA. STATE, 68- U.S.N.R, 43-46, Lt. AAAS; fel. Psychol. Asn. Psychology of learning and language. Address: Burrowes Bldg, Pennsylvania State University, University Park, Pa. 16802.

COFFEE, DR. THOMAS M(ONTERVILLE), Sociol, see 10th ed, Soc. & Behav. Vols.

COFFEY, PROF. HUBERT STANLEY, b. Wellman, Iowa, June 7, 10; m. 40; c. 3. PSYCHOLOGY. B.A, Iowa, 34, M.A, 36, Ph.D.(child psychol), 38. Asst, child welfare res. sta, Iowa, 34-38; asst. prof. child develop, Cent. Wash. Col. Ed, 38-41; dir. training, Fed. Security Agency, 45-46; lectr, clin. psychol, CALIFORNIA, BERKELEY, 46-48, asst. prof. PSYCHOL, 48-50, ASSOC. PROF, 50- Lectr, Harvard, 51-52; assoc, Tavistock Inst. Human Rels, Eng, 56-57; Fulbright teaching scholar, Lucknow, India & Kyushu, Japan, 57-58. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N, 42-45. AAAS; fel. Psychol. Asn. Process of group therapy; mental hygiene; psychotherapy, group dynamics. Address: Dept. of Psychology, University of California, Berkeley, Calif. 94720.

COFFEY, DR. JOSEPH D(ANIEL), b. Martinsville, Ind, Mar. 17, 38; m. 60; c. 2. AGRICULTURAL ECONOMICS. B.S, Purdue, 60; Nat. Defense fel, N.C. State, 61-63, M.S, 63, Ph.D.(econ), 66. Agr. econ. adv, Univ. North Carolina Mission to Peru, 63-65; ASST. PROF. AGR. ECON, CALIFORNIA, BERKELEY, 65- Mem, N.Cent. Res. Sub-Cmt. Income Distribution, 67- U.S.A, 60-61, Res, 61-, 1st Lt. Econ. Asn; Agr. Econ. Asn. Economic development of Peru's agriculture; World food supply; distribution of farm income; economics of dairy feeding. Publ: Co-auth, Some economic aspects of free-choice feeding dairy cows, 12/63 & auth, Impact of technology on traditional agr: the Peru case, 5/67, J. Farm Econ; World food supply and population explosion, J. Am. Dietetic Asn, 12/67. Address: Room 207 Giannini Hall, University of California, Berkeley, Calif. 94720.

COFFEY, PROF. JOSEPH I(RVING), b. St. Louis, Mo, Feb. 13, 16; m. 63; c. 1. INTERNATIONAL RELATIONS. B.Sc, U.S. Mil. Acad, 39; Columbia; Ph.D. (int. rel), Georgetown, 54. U.S. Army, 39-60, from instr. to asst. prof. econ, govt. & hist, U.S. Mil. Acad, 42-45, with Army Intel, 50-51, Army Plans, 53-54, Off. Asst. Secy. Defense, 54-56, asst. dir. spec. studies proj, Rockefeller Bros. Fund, 56-57, mem. White House Staff, 58-60; tech. staff mem, Inst. Defense Anal, 60-63; chief off. nat. security studies, aerospace syst. div, Bendix Corp, 63-67; PROF. PUB. & INT. AFFAIRS, PITTSBURGH, 67- Lectr, grad. sch, Georgetown, 54- Govt. consult; consult, Off. Asst. Secy. Defense, 67-; U.S. Arms Control & Disarmament Agency, 68- Mem. Coun. For. Rels. Polit. Sci. Asn; Planning Asn; Inst. Strategic Studies. Soviet Union; Southeast Asia; United States military organizational and strategic problems; foreign policy process. Publ: Co-auth, The presidential staff; assoc. auth, Forging a new sword; auth, The anti-ballistic missile debate, For. Affairs, 4/67. Address: Graduate School of Public & International Affairs, 702 Bruce Hall, University of Pittsburgh, Pittsburgh, Pa. 15213.

COFFEY, DR. ROBERT EDWARD, b. Brookings, S.Dak, May 1, 31; m. 54; c. 3. BUSINESS ADMINISTRATION. B.A, Principia Col, 53; M.B.A, Northwestern, 58; fel, Illinois, 60-63, Ph.D.(bus), 63. Personnel asst, Sherwin-Williams Co, 53-56; asst. dean men, Principia Col, 56-60; asst. prof. mgt, GRAD. SCH. BUS. ADMIN, SOUTHERN CALIFORNIA, 63-68, ASSOC. PROF MGT. & DIR. M.B.A. PROGS, 68- Prog. mgr, Lockheed Mgt. Inst; speaker in numerous exec. develop. & supvry. training progs. Mgt. consult, True-Trace, Lockheed-Calif. Co. & NASA. Behavior in organizations, including personal, interpersonal, group and intergroup; management and organizational processes. Publ: Co-autn, Behavior in organizations, Prentice-Hall, 4/68. Address: Graduate School of Business Administration, University of Southern California, University Park, Los Angeles, Calif. 90007.

COFFEY, DR. W(ALTER) C(ALVIN), JR, b. Urbana, Ill, Jan. 10, 14; m. 39; c. 2. PSYCHOLOGY. B.A, Lawrence Col, 36; M.A, Minnesota, 39, Ph.D. (ed. psychol), 49. Asst. personnel dir, DAYTON CORP, 45-51, EXEC. TRAINING DIR, 55- Personnel dir, Northwest. Nat. Life Ins. Co, 51-55. U.S.N.R, 43-45, Lt.(jg). Psychol. Asn. Industrial executive selection and development. Address: Dayton Corp, Nicollet Mall at Seventh St, Minneapolis, Minn. 55402.

COFFIN, DR. THOMAS E(RWIN), b. Richmond, Ind, Jan. 30, 16; m. 40. PSYCHOLOGY. A.B, Whittier Col, 36; A.M, Princeton, 39, Ph.D.(psychol), 41. Instr. psychol, Hofstra Col, 39-41, asst. prof, 41-43, assoc. prof, 46-48, prof, 48-49, chmn. dept, 46-49; res. psychologist, Off. Sci. Res. & Develop, 43-44; Norwich State Hosp, Conn, 44-46; supvr. TV prog. res, NAT. BROADCASTING CO, 49-52, mgr. RES, 52-56, dir, 56-64, V.PRES, 64- Psychol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Marketing; opinion and advertising; propaganda and attitude; social-psychological effects of television. Publ: Conditions of suggestion and suggestibility, Psychol. Monogr; Television's impact on society, Am. Psychologist; A pioneering experiment in assessing advertising effectiveness, J. Mkt, 7/63. Address: National Broadcasting Co, 30 Rockefeller Plaza, New York, N.Y. 10020.

COFFMAN, DR. KENNETH H, b. Regina, Sask, May 15, 30; U.S. citizen; m. 55; c. 3. PSYCHOLOGY. B.S, Greenville Col, 58; M.S, Illinois State, 59; Ph.D.(psychol), Northwestern, 62. Staff psychologist, Children's Center, Ill. Soldiers' & Sailors' Children's Sch, 59-60; intern, Galesberg State Res. Hosp, Ill, 62-63; PSYCHOLOGIST, OAKLAND UNIV, 63-, DIR. PSYCHOL. SERV, 64- Consult. psychologist, Haven Hosp, 67- U.S.M.C, 50-54, S/Sgt. Psychol. Asn. The function of the consulting psychologist; individual and group psychotherapy. Address: Psychological Services, Oakland University, Rochester, Mich. 48063.

COFFMAN, DR. WILLIAM E(UGENE), b. Belington, W.Va, June 13, 13; m. 39; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Wittenberg Col, 34; M.A, West Virginia, 38; Ed.D.(ed. psychol), Columbia, 49. Prin, pub. sch, W.Va, 37-44; res. asst, Horace Mann-Lincoln Inst, 47-49; assoc. res. prof. psychol. & exam, sch. arts & sci, Okla. Agr. & Mech. Col, 49-52; asst. dir. test develop, ED. TESTING SERV, 52-54, assoc. dir, 54-57, dir, 57-60, dir. res. & develop, col. bd. progs, div, 60-65, RES. ADV, DEVELOP. RES. DIV, 65- Vis. lectr, Princeton Theol. Sem, 63- U.S.A, 44-45. Fel. Psychol. Asn. Teacher evaluation; achievement testing; evaluation of educational programs. Publ: Teacher morale and curriculum development, J.Exp. Ed, 6/51; Developing tests for the culturally different, Sch. & Soc, 11/65; co-auth, The measurement of writing ability, Col. Bd, 66. Address: Educational Testing Service, Princeton, N.J. 08540.

COGAN, DR. DENNIS CLARK, b. Milwaukee, Wis, Jan. 10, 36; m. 60; c. 1. EXPERIMENTAL PSYCHOLOGY. B.S, Wisconsin, Milwaukee, 59; Texas, Austin, 59-62; M.A, Missouri, 64, Nat. Insts. Health fel, 64-66, Ph.D.(psychol), 66. ASST. PROF. PSYCHOL, TEX. TECH. COL, 66- Statist. consult, South Plains Guid. Center, 66-67; Voc. Rehab. Training Center, Lubbock, Tex, 67- Psychol. Asn; Statist. Asn. Animal learning and motivation; physiological basis of learning; comparative animal learning. Publ: Co-auth, Relative effects of delayed reinforcement and partial reinforcement on acquisition and extinction, Psychol. Reports, 9: 7-13 & The effect of intermittant presentation of goalbox cues on resistance to extinction under spaced and massed conditions, Psychol. Record, 15: 169-173; Post-reinforcement delay in extinction: a failure to replicate, Psychonomic Sci, 8:399-400. Address: Dept. of Psychology, Texas Technological College, Lubbock, Tex. 79407.

COGGAN, PROF. WILLIAM GERALD, b. Chelsea, Mass, Oct. 28, 22; m. 50; c. 4. CHILD PSYCHOLOGY, SOCIOLOGY. B.S, Northeastern, 46; M.S, Utah, 48; Ph.D, Fla. State, 55. Psychologist, Fla. Sch. Boys, 53-54, dir. clin, 55-56; psychologist, Palm Beach Child Guid. Clin, 56-57; LECTR. PSYCHOL. & SOCIOL, NORTHEASTERN, 58-; PROF. PSYCHOL, MASSASOIT COMMUNITY COL, 68- Counsr, Littleton & Union Schs, 57-68. U.S.A, 42-45. AAAS; Psychol. Asn. Children's behavior; marriage adjustment; juvenile delinquency. Publ: Fairy tales and comics; New approach to delinquency; Delinquents and comics. Address: 399 Washington St, Apt. 4, Brookline, Mass. 02146.

COGGESHALL, ROBERT WALDEN, b. Darlington, S.C, Sept. 11, 12; m. 34; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.S, South Carolina, 32; M.A, George Washington, 64. Admin. analyst, Home Owners' Loan Corp, 34-41; budget analyst, Fed. Works Agency, 41-43; asst. dep. adminstr. rent control dept, Off. Price Admin, 43-46; from mgt. analyst to chief systs. & procedures, U.S. Bur. Reclamation, 46-53; ed, Postal Manual, Off. Postmaster Gen, Post. Off. Dept, 54; chief mgt. anal, Bur. Indian Affairs, 54-57; asst. dir. mgt. res, Off. Secy, U.S. Dept. Interior, 57-66, chief div. mgt. sci, 66-67; RES. FEL, CENTER ADV. STUDY, BROOKINGS INST, 68- Mem. faculty, U.S. Dept. Agr. Grad. Sch, 59- Polit. Sci. Asn; Soc. Pub. Admin; Inst. Mgt. Sci; Acad. Polit. & Soc. Sci. Politics and administration of scientific programs; interagency and intergovernmental coordination; management information and control systems; productivity measurement and evaluation. Publ: Administrative functions of the Fish and Wildlife Service, Off. Secy, U.S. Dept. Interior, 58; Coordination of federal oceanography, Center Tech. & Admin, American Univ, 63; Research productivity and evaluation, Mgt. Highlights, 4/64. Address: 6808 Laurel St. N.W, Washington, D.C. 20012.

COGSWELL, DR. JOHN F(ITZHUGH), b. Williamsport, Pa, Mar. 28, 26; m. 49; c. 2. EDUCATIONAL & CLINICAL PSYCHOLOGY. B.S, Pa. State, 51, M.S, 53, Ph.D.(psychol), 59. Asst. to dir. col. counseling, Pa. State, 52-54; staff

psychologist clin. psychol, Brattleboro Retreat, Vt, 54-56, chief psychologist, 56-59; human factors scientist training res, SYST. DEVELOP. CORP, 59-60, head training innovations sect, 60-61, mem. res. directorate ed, 61-64, ED. RES. LEADER, 64- Prin. investr, U.S. Off. Ed. res. projs, 64-; private practice, 67- U.S.A.A.F, 44-47. Psychol. Asn. Instructional films; psychotherapy; treatment of delusion by chemotherapy; semantic validity of tests; personality and learning; use of electronic data processing in education for counseling functions, diagnosis and individualized instruction. Publ: Contrib, Systems technology in education, Instructional management information systems & Computers in student appraisal and educational planning, In: Man-machine systems in education. Address: Systems Development Corp, 2500 Colorado Ave, Santa Monica, Calif. 90404.

COHAN, DR. AVERY B(ERLOW), b. Boston, Mass, July 12, 14; m. 48; c. 4. ECONOMICS, FINANCE. A.B, Cornell, 34; A.M, Columbia, 42, Ph.D, 59; fel, Harvard, 56-57. Asst. bus. cycles, Nat. Bur. Econ. Res, 42; res. assoc, Nat. Asn. Mfrs, 43-45; econ. analyst, Dept. State, Switz, 45-48; transportation, U.S. Dept. State, D.C, 48-49; prog. officer Swedish econ, Econ. Coop. Admin, Sweden, 49-51; U.S. res. rep, Econ. Cmn. for Europe, Switz, 51-53; with Top Co, Mass, 53-56; lectr. FINANCE, SCH. BUS. ADMIN, NORTH CAROLINA, 57-59, assoc. prof, 59-61, PROF, 61-, chmn. grad. studies. bus. admin, grad. sch. bus. admin, 62-67. Vis. prof, Mgt. Develop. Inst, Switz, 64-65. Mem. res. staff, Nat. Bur. Econ. Res, 61- Econ. Asn; Statist. Asn; Inst. Mgt. Sci. Business finance; capital markets; managerial economics; theory of the firm: a view on methodology; yields and quality of corporate debt directly placed. Publ: Yields on corporate debt directly placed, Columbia, 67; Should direct placements be registered?, N.C. Law Rev, 2/65; Problems in measuring the quality of direct placements, Proc. Am. Statist. Asn, 66. Address: University of North Carolina School of Business Administration, 312 Carroll Hall, Chapel Hill, N.C. 27514.

COHANY, HARRY P, b. Aug. 12, 22; m. 51; c. 2. ECONOMICS, POLITICAL SCIENCE. B.A, New Sch. Soc. Res, 49; M.A, Tennessee, 53; M.P.A, Harvard, 68. LABOR ECONOMIST, U.S. DEPT. LABOR, 51- Littauer fel, Harvard, 67-68. U.S.A.A.F, 42-45. Econ. Asn; Polit. Sci. Asn; Soc. Pub. Admin; Indust. Rels. Res. Asn. Labor relations. Address: 3706 Astoria Rd, Kensington, Md. 20795.

COHART, DR. MARY, Psychol, see 10th ed, Soc. & Behav. Vols.

COHEN, PROF. ALBERT K, b. Boston, Mass, June 15, 18; m. 48. SOCIOLOGY. B.A, Harvard, 39, Ph.D.(sociol), 51; M.A, Indiana, 42. Dir. orientation, Ind. Boys Sch, 42; from instr. to prof. SOCIOL, Indiana, 47-65; UNIV. PROF, CONNECTICUT, 65- Vis. assoc. prof, California, Berkeley, 60-61; fel, Center Adv. Study Behav. Sci, 61-62. U.S.A, 42-46. Sociol. Asn; Soc. Study Social Probs; Int. Soc. Criminol; Am. Soc. Criminol. Social organization; deviant behavior. Publ: Delinquent boys, the culture of the gang, Macmillan, 55; Deviance and control, Prentice-Hall, 66; The structure of the deviant act: anomie theory and beyond, Am. Sociol. Rev, 65. Address: Dept. of Sociology, University of Connecticut, Storrs, Conn. 06268.

COHEN, DR. ALEXANDER, b. Brooklyn, N.Y, July 12, 30; m. 55; c. 3. EXPERIMENTAL PSYCHOLOGY. B.S, City Col. New York, 53; M.S, Delaware, 55; fel, Pa. State, 56-57, Ph.D.(exp. & gen. psychol), 59. Res. assoc. psychoacoustics, Pa. State, 57-58; res. psychologist, environmental protection res. div, Qm. Res. & Eng. Command, U.S. Dept. Army, 58-61; EXP. & PHYSIOL. PSYCHOLOGIST, OCCUP. HEALTH RES. & TRAINING FACILITY, U.S. PUB. HEALTH SERV, 61- Instr, grad. sch, Northeastern, 60-61; adj. asst. prof. psychol, Xavier (Ohio), 63-; environ. health, Kettering Lab, col. med, Cincinnati, 66- AAAS; Psychol. Asn; Psychonomic Soc; Acoustical Soc; Sci. Res. Soc. Problems of psychoacoustics, including the effects of noise on speech communications, hearing and other aspects of behavior; behavioral changes due to thermal stress. Publ: Further investigation of the effects of intensity on the pitch of pure tones, 10/61 & Threshold shifts in hearing from exposure to combined impact/steady-state noise, 12/66, Acoustical Soc. Am; Damage risk criteria for noise exposure: aspects of acceptability and validity, Am. Indust. Hyg. Asn. J, 63. Address: 4016 Beechwood Ave, Cincinnati, Ohio 45229.

COHEN, PROF. ALONZO CLIFFORD, JR, Statist, see 11th ed, Phys. & Biol. Vols.

COHEN, DR. ALVIN I, b. Boston, Mass, Apr. 4, 33; m. 54; c. 3. PSYCHOLOGY, COUNSELING. B.A, Northeastern, 55; M.A, Southern Illinois, 57, Ph.D.(psychol, counseling), 60. Psychologist, Ment. Health Center, Murphysboro, Ill, 59-61; ward adminstr, Vet. Admin. Hosp, Northampton, Mass, 61-65; ASSOC. PROF. PSYCHOL, MASS. STATE COL, WESTFIELD, 65- Psychother. consult, Ment. Health Center, Holyoke, 62-; State Hosp, Northampton, 67- Psychol. Asn; Asn. Adv. Psychother. Adolescence, self concept; changes in psychotherapy. Address: 11 Acrebrook Dr, Florence, Mass. 01060.

COHEN, DR. ARTHUR, Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

COHEN, PROF. ARTHUR R(OBERT), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

COHEN, DR. BENJAMIN JERRY, b. Ossining, N.Y, June 5, 37. ECONOMICS. B.A, Columbia, 59, N.Y. State Regents fel, univ. scholar, Fels Fund fel. & Ph.D.(econ), 63. Economist, Fed. Res. Bank New York, 62-64; ASST. PROF. ECON, PRINCETON, 64- Am. Econ. Asn; Am. Finance Asn; Royal Econ. Soc. International capital movements; balance of payments theory and policy; theory of foreign economic policy; theory of economic integration. Publ: Adjustment costs and the distribution of new reserves, Princeton, 66; The Euro-dollar, the Common Market, and currency unification, J. Finance, 12/63; co-auth, balance of payments adjustment in a disequilibrium system, Kyklos, Switz, 3/64. Address: Dept. of Economics, Princeton University, Princeton, N.J. 08540.

COHEN, DR. BERNARD BRACHYA, b. Jersey City, N.J, Mar. 19, 26; m. 52; c. 2. PSYCHOLOGY. B.A, Temple, 46; Ph.D, N.Y. Univ, 56. Psychol. intern, Phila. Psychiat. Hosp, 49-50, clin. psychologist, 50-53; Jefferson Med. Col, 53-56; from sr. psychologist to dir. psychol. training, Phila. State Hosp, 56-58; clin. psychologist, Haverford Ment. Health Center, 58-62; dir. psychol. serv, Haverford State Hosp, 62-66; CHIEF PSYCHOLOGIST, MONTGOMERY COUNTY MENT. HEALTH CLINS, 66- Clin. psychologist, Sidney Hillman Med. Center, 52-64; private practice, 54- Consult, Asn. Jewish Children, 60-62; Haverford Twp. Sch. Dist, 62-; North. Home for Children, 64-67. Psychol. Asn. Psychotherapy; psychodiagnostic testing; behavior therapy; psychology of art; ideology. Publ: Certain psychological factors associated with acculturation, Dissertation Abstracts; co-auth, Early separation from the mother in schizophrenia, J. Nerv. & Ment. Diseases; auth, The desensitization of social anxiety, Pa. Psychiat. Quart, 65. Address: 42 Haverford Rd, Overbrook Hills, Philadelphia, Pa. 19151.

COHEN, DR. BERNARD C(ECIL), b. Northampton, Mass, Feb. 22, 26; m. 47; c. 2. INTERNATIONAL RELATIONS. B.A, Yale, 48, M.A, 50, Hale fel. & Ph.D.(int. rels), 52. Res. asst, center int. studies, Princeton, 51-54, res. assoc, 54-59; asst. prof. POLIT. SCI, WISCONSIN, MADISON, 59-60, assoc. prof, 60-63, PROF, 63-, CHMN. DEPT, 66- Fel, Center Adv. Study Behav. Sci, 61-62; vis. res. scholar, Carnegie Endowment Int. Peace, N.Y, 65-66. U.S.A, 44-46. Polit. Sci. Asn. International politics; American foreign policy; public opinion. Publ: Citizen education in world affairs, Princeton Center Int, Studies, 53; The political process and foreign policy, 57 & The press and foreign policy, 63, Princeton. Address: 1034 Seminole Highway, Madison, Wis. 53711.

COHEN, DR. BERNARD P, b. New York, N.Y, Jan. 31, 30; m. 53; c. 2. SOCIOLOGY. A.B, Harvard, 51, Soc. Sci. Res. Coun. fel, 55-56, Ph.D, 57; M.A, Minnesota, 52. Lectr. soc. rels, Harvard, 56-58; res. assoc. comput. center, Mass. Inst. Tech, 56-58, fel, inst. adv. study, 57-58; asst. prof. sociol, California, 58-59; STANFORD, 59-62, assoc. prof. SOCIOL, 62-68, PROF. & EXEC. HEAD DEPT, 68-, DIR. LAB. SOC. RES, 62-, assoc. exec. head dept. sociol, 66-68. Sociol. Asn. Experimental studies of social influence; application of mathematics to sociology. Publ: Conflict and conformity: a probability model and its application; co-auth, Types of formalization in small groups research; co-auth, Status characteristics and expectation states, In: Sociological theories in progress, Houghton, 66. Address: 851 Sonoma Terr, Stanford, Calif. 94305.

COHEN, PROF. BERTRAM D(AVID), b. Brooklyn, N.Y, Jan. 16, 23; m. 46; c. 6. PSYCHOLOGY. B.A, Brooklyn Col, 44; M.A, Iowa, 45, Ph.D.(psychol), 49. Instr. PSYCHOL, Indiana, 49-51, asst. prof. 51-52; Iowa, 52-55, assoc. prof, 55-56; Wayne State, 56-60, prof, 61-62, head div. psychol, Lafayette Clin, 56-62; PROF. PSYCHOL. & DIR. CLIN. TRAINING, GRAD. SCH. RUTGERS, 62-, PROF. PSYCHOL, RUTGERS MED. SCH, 65- Chief psychologist, Iowa City Vet. Admin. Hosp, 52-56; consult. mem. psychopharmacol. study sect, div. res. grants, Nat. Insts. Health, 61-65; consult. Vet. Admin. Mem. Cert. Cmn. Psychol. State Mich, 60-62; adv. bd, Training psychol, State N.J, 63-65. Dipl. Am. Bd. Exam. Prfnl. Psychol, 55. Fel. Psychol. Asn; Psychonomic Soc; fel. Col. Neuropsychopharmacol. Psychopathology; motivation; verbal reinforcement. Publ: Motivation and performance in schizophrenia, J. Abnorm. & Soc. Psychol, 56; co-auth, Avoidance learning motivated by hypothalamic stimulation, J. Exp. Psychol. 57 & Referential processes of speakers and listeners, Psychol. Rev. 66. Address: Dept. of Psychiatry, Rutgers University, New Brunswick, N.J. 08903.

COHEN, DR. BRUCE JEROME, b. Glen Cove, N.Y, Jan. 17, 38. SOCIAL SCIENCE, SOCIOLOGY. B.A, Mich. State, 59, M.A, 60, Ph.D.(soc. psychol), 64. Asst. instr, SOC. SCI, MICH. STATE, 62-65, ASST. PROF, 65- Sociol. Asn. Criminology; criminological theory; effectiveness of various programs in correctional institutions. Publ: Co-auth, Study guide for sociology, 64 & Study guide and source book for sociology, 68, McGraw. Address: 2930 Woodruff Dr, Lansing, Mich. 48912.

COHEN, DANIEL, b. Brooklyn, N.Y, June 5, 23; m. 50; c. 4. ECONOMICS. B.A, N.Y. Univ, 47. Economist, Bur. Labor Statist, 48-52, 53-54; Off. Price Stabilization, 52-53; anal. statistician, off. chief transportation, U.S. Dept. Army, 54-57; economist, U.S. Dept. Agr, 57-60; chief indust. raw mat. sect, FINANCIAL REV. DIV, AGENCY INT. DEVELOP, 60-68, ASST. CHIEF, 68- Meritorious honor award, Agency Int. Develop, U.S. Dept. State, 65. U.S.A, 43-45. Econ. Asn. Far East economic and political affairs; price economics; commodity and industry analysis. Address: 12916 Matey Rd, Silver Spring, Md. 20906.

COHEN, DR. DAVID, b. Troy, N.Y, July 23, 14; m. 43; c. 2. COUNSELING, PSYCHOLOGY. B.A, State Univ. N.Y. Col. Ed.(Albany), 37, M.A, 39; Ph.D. (counseling, psychol), Columbia, 58. Counsr, Nat. Youth Admin, 39-42; employ. counsr, U.S. Employ. Serv, 42, 43-45; counseling psychologist, regional off, Vet. Admin, 45-61, VET. ADMIN. HOSP, BROOKLYN, 61-66, ASST. CHIEF PSYCHOL. SERV, 66- U.S.A.A.F, 42-43. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn. Factors in the development of vocational career patterns; measurement of vocational interests; vocational rehabilitation of the handicapped. Address: 4317 48th St, Long Island City, N.Y. 11104.

COHEN, DAVID N, b. Rumania, Aug. 30, 10; nat; m. 39. STATISTICS. A.B, City Col. New York, 31; M.A, Columbia, 33. Statistician, Nat. Res. Proj, 37-40; supv. surv. statistician, U.S. Bur. Census, 40-59; economist, U.S. DEPT. COMMERCE, 59-61, ANAL. STATISTICIAN, 61- U.S.A, 43-45. Statist. Asn. Manufacturing statistics. Address: 10711 Lombardy Rd, Silver Spring, Md. 20901.

COHEN, DR. EDWIN, b. New York, N.Y, Aug. 26, 24; m. 58; c. 3. PSYCHOLOGY. A.B, Cornell, 44; M.S, Oklahoma, 49, Ph.D.(psychol), 55. Asst. Rockefeller Intergroup Rels. Proj, 52-53; proj. dir, Psychol. Res. Assocs, 53-55; training specialist, Rand Corp, 55-56; proj. dir, Ed. Res. Corp, 56-58; assoc, Mendota Res. Group, 57-58; mem. faculty, Simmons Col, 57-58; eng. psychologist, LINK GROUP, GEN. PRECISION SYSTS. INC, 58-61, MGR. HUMAN FACTORS DEPT, 61- Mem. training cmt, Soc. Automotive Eng, 63-;

driving simulation cmt, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 66-U.S.N, 44-46. AAAS; Psychol. Asn; Sociol. Asn; Human Factors Soc; Aerospace Med. Asn; Aerospace Indust. Life Sci. Asn; Soc. Eng. Psychol; Asn. Aviation Psychol. Optimization of functioning of man-machines systems by application of ergonomics; training and training equipment for complex jobs; effect of social and technological changes on organizational and individual behavior. Publ: Simulation of motion for training and for research; Group situational performance tests: their uses and construction, Personnel Psychol; co-auth, Device and tests for measuring intellectual functions during acceleration. Address: Link Group, General Precision Systems, Inc, Binghampton, N.Y. 13902.

COHEN, DR. EDWIN, b. Superior, Nebr, Apr. 3, 23; m. 48; c. 3. CLINICAL PSYCHOLOGY, SPEECH PATHOLOGY. B.A, Iowa, 47, M.A, 49, Ph.D, 52; fel, Dept. Health, Ed. & Welfare, 51. Staff psychologist, VET. ADMIN. HOSP, Iowa City, Iowa, 53-55, staff supvry. psychologist, 55-58, chief psychologist, 58-64, CHIEF PSYCHOL. SERV, CLEVELAND, OHIO, 64- Clin. asst. prof, Iowa, 58-64; assoc, Case Western Reserve, 64-; lectr, Cuyahoga Community Col, 66- U.S.A, 43-46, 61-62, Res, 62-, Capt. Psychol. Asn; Speech & Hearing Asn. Psychotherapy; speech and language disorders; verbal conditioning; clinical training; vocational counseling and rehabilitation. Publ: Experimental manipulation of verbal behavior, J. Exp. Psychol; Verbal reinforcement in schizophrenia, J. Abnorm. & Soc. Psychol; Psychological research in a veterans administration hospital, Proc. Iowa Acad. Sci. Address: 561 Coy Lane, Chagrin Falls, Ohio 44022.

COHEN, DR. ELIZABETH G(INSBURG), b. Worcester, Mass, May 1, 31; m. 53; c. 2. SOCIOLOGY. B.A, Clark, 53; M.A, Radcliffe Col, 55, Ph.D, 58; Woodrow Wilson fel, 53-54; Am. Asn. Univ. Women fel, 56-57. Instr. sociol, Boston, 57-58; res. assoc, STANFORD, 59-60, commun, 60-61, sociol, 61-66, ASST. PROF. SOCIOL. ED, SCH. ED, 66-, lectr, 64-66. AAAS; Sociol. Asn. Sociology of education; race and education; social stratification, especially upward social mobility. Publ: Parental factors in educational mobility, Soc. Ed, fall 65; Status of teachers, Rev. Ed. Res, 9/67. Address: Stanford University School of Education, Stanford, Calif. 94305.

COHEN, DR. FREDERICK, Speech Path, Psychol, see 10th ed, Soc. & Behav. Vols.

COHEN, DR. HASKEL, b. New York, N.Y, Jan. 27, 34; m. 60; c. 1. CLINICAL PSYCHOLOGY. A.B, Michigan, 53; A.M, Boston, 54, Ph.D, 57. Unit chief adolescents, dept. psychiat, Children's Hosp. Med. Center, Boston, 57-65; CHIEF PSYCHOLOGIST, NEWTON MENT. HEALTH CLIN, 65- Lectr, Harvard, 61-, asst. prof. sch. ed, 66- Consult, sch. pub. health, Harvard, 60-61. Psychol. Asn. Development of a test of normal emotional development and the collecting of data to provide this normative data. Publ: Effect of oral need on the cognitive responses of children, Boston Univ. Grad. Sch. Bull; Psychological testing observations of a group of adolescents having ovarian dysgenesis, Psychosom. Med; co-auth, A new method for appraising emotional needs of children, Ment. Hyg, 66. Address: R.F.D. 2, Newtown Rd, Littleton, Mass. 01460.

COHEN, DR. HELEN ANN, b. Duluth, Minn. PSYCHOLOGY. B.A, Chicago, 52, M.A, 54, Ph.D.(human develop), 64. Asst. prof. PSYCHOL, Roosevelt, 60-65; intern, Ill. State Psychiat. Inst, 65-66; ASST. PROF, ILL. INST. TECH, 66- Consult, guest lectr, sch. nurses training, Cook County, 59-; guest lectr, Chicago, 60-63. Psychol. Asn; Int. Asn. Appl. Psychol. Personality correlates associated with creativity and intelligence; social mobility as a factor in adolescent identity. Publ: Co-auth, Mobility and identity: the implications for college students, Coll. Personnel Abstracts, 6/66; A correlative study of cheating in college students, 6/68 & An empirical test of Rogers theory of creativity, J. Ed. Res, (in press). Address: Dept. of Psychology, Illinois Institute of Technology, Chicago, Ill. 60616.

COHEN, HENRY, Sociol; Pub. Admin, see 10th ed, Soc. & Behav. Vols.

COHEN, DR. HENRY, U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COHEN, DR. HOWARD M(ARTIN), b. New York, N.Y, June 6, 26; m. 53; c. 2. PSYCHOLOGY. B.A, George Washington, 48, M.A, 49; Ph.D, N.Y. Univ, 57. Counseling psychologist, lab. psychol. studies, Stevens Inst. Tech, 49-50; intern psychol, Brooklyn State Hosp, N.Y, 51-52; clin. psychologist, Wallkill Prison, 52-54; clin. psychologist, HUDSON RIVER STATE HOSP, 54-55, sr. clin. psychologist, 55-57, ASSOC. CLIN. PSYCHOLOGIST, 57-; PROF. PSYCHOL, STATE UNIV. N.Y. COL. NEW PALTZ, 67- Instr, Moran Mem. Inst, St. Lawrence Univ, 58; lectr, N.Y. Univ, 58-; planning specialist & behav. scientist, Dept. Ment. Hyg, N.Y, 66-67. Consult, Dutchess County All Purpose Ment. Health Clin, N.Y, 55-; Astor Home for Children, 57-Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 62. U.S.N, 44-46. Psychol. Asn. Individual psychological diagnosis and psychotherapy; crime and delinquency. Address: Behavioral Science Division, State University of New York College at New Paltz, New Paltz, N.Y. 12561.

COHEN, DR. HYMEN EZRA, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

COHEN, PROF. IRA S(TANLEY), b. New York, N.Y, Sept. 1, 22; m. 49; c. 2. PSYCHOLOGY. B.A, Queens Col.(N.Y), 48; Ph.D.(psychol), Indiana, 53. Asst. prof. PSYCHOL, BUFFALO, 52-58, assoc. prof, 58-63, PROF, 63-, ASSOC. CHMN. DEPT, 64- Consult, Vet. Admin, 55- U.S.A, 42-46. Psychol. Asn. Clinical psychology; psychopathology; anxiety; medical education; programmed learning. Publ: Teaching and learning in medical schools; Rigidity and anxiety in a motor response, Perceptual Motor Skills; Programmed learning and the Socratic dialogue, Am. Psychologist, 62. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

COHEN, PROF. JACOB, b. Winnipeg, Man, Jan. 3, 18; nat. ECONOMICS. B.A. Manitoba, 40; A.M. Cincinnati, 41; Ph.D. Chicago, 49. Asst. prof. econ, Bowling Green State, 50-54, assoc. prof, 54-62, PROF, 62-64; PITTSBURGH, 64-66, ECON. & FINANCE, 66- Summers, vis. lectr, Colorado, 63, grad. sch. bus. admin, California, Los Angeles, 65. Univ. Pittsburgh rep. cmt. on univs, Nat. Bur. Econ. Res. Am. Econ. Asn; Am. Finance Asn; Royal Econ. Soc. Integrating expenditure analysis with analysis of financial markets; the flow of funds accounts as a theoretical and empirical framework; and inter-country analysis of the financial determinants of investment. Publ: Circular flow models in the flow of funds, Int. Econ. Rev, 5/63; What do bank loans really finance?, In: Banking and monetary studies, Irwin, 63; Integrating the real and financial via the linkage of financial flow, J. Finance, 3/68. Address: Dept. of Economics, University of Pittsburgh, Pittsburgh, Pa. 15213.

COHEN, PROF. JACOB, b. New York, N.Y, Apr. 20, 23; m. 47; c. 2. PSYCHOLOGY. B.S, City Col. New York, 47; M.A, N.Y. Univ, 48, Ph.D.(psychol), 50. Instr. PSYCHOL, N.Y. UNIV, 49-54, adj. asst. prof, 54-55, adj. assoc. prof, 56-59, assoc. prof, GRAD. SCH, 59-63, PROF, 63- Lectr, City Col. New York, 48-55, prof, 55-59. Trainee, Vet. Admin, 47-51, asst. chief psychologist, Bronx Vet. Admin. Hosp, N.Y, 51-54, chief psychol. training unit, Montrose Vet. Admin. Hosp, 54-55, liaison coordinator, psychiat. eval. proj, 56-59. Res. consult, Am. Tobacco Co, 55-; Staten Island Ment. Health Soc, 58-; Vet. Admin, 59-; Int. Bus. Mach. Corp, 64- Bd. chmn, Abacus Assocs. Inc, 65-67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 58. Mil. Intel, U.S.A, 43-46. Fel. Psychol. Asn; Statist. Asn; Psychomet. Soc; Psychonomic Soc; Soc. Multivariate Exp. Psychol.(staff ed, 64). Research design and quantitative methods in behavioral science; psychometric theory; statistical psychology; test and scale construction. Address: Dept. of Psychology, New York University, Washington Square, New York, N.Y. 10003.

COHEN, DR. JEAN CARL, b. Grand Rapids, Mich, Feb. 12, 24; m. 52; c. 2. PSYCHOLOGY. B.A, Michigan, 44; M.A, Iowa, 47, Ph.D, 49. Instr. PSYCHOL, Smith Col, 49-50, asst. prof, 50-56; lectr, Massachusetts, 58-60; SMITH COL, 60-68, RES. ASSOC, 68- Psychol. Asn; Psychonomic Soc. Child psychology; personality development; verbal learning. Publ: Co-auth, Effect of meaningfulness on cue selection in verbal PA learning, 64, Abstraction in verbal paired-associate learning, 66 & Effect of formal similarity on cue selection in verbal PA learning, 66, J. Exp. Psychol. Address: Burton Hall, Smith College, Northampton, Mass. 01060.

COHEN, DR. JEROME, b. Pittsburgh, Pa, May 25, 25; m. 45; c. 3. PSYCHOLOGY. B.S, Pittsburgh, 47, Ph.D.(psychol), 51; M.A, Cornell, 49. Instr. psychol, Pittsburgh, 49-51; asst. prof. & assoc. dir. aviation psychol. lab, Antioch Col, 51-54, assoc. prof. & dir. 55-57; assoc. prof. PSYCHOL, MED. SCH, NORTHWESTERN, 57-66, PROF, 66- Commonwealth Fund spec. fel, Eng, 63-64; W. Clement Stone summer fels. brain res, 65, 67. Consult, Inst. Juvenile Res, Chicago, Ill, 64. U.S.N.R, 43-46, Lt.(jg). Psychol. Asn; Electroencephalog. Soc; Soc. Psychophysiol. Res; Psychonomic Soc. Perception; psychoneurology; brain potentials to psychological stimuli and conditioning. Publ: Co-auth, Carbon dioxide therapy, C.C. Thomas, 64; auth, Electroencephalographic changes following retrolental fibroplasia, J. Electroencephalog. & Clin. Neurophysiol; The interaction of responses in the brain to semantic stimuli, Psychophysiology, 66. Address: 134 Woodland Ave, Winnetka, Ill. 60093.

COHEN, DR. JEROME B(ERNARD), b. New York, N.Y, Jan. 18, 15; m. 41; c. 1. ECONOMICS, FINANCE. B.S.S, City Col. New York, 34; M.A, Columbia, 35, Ph.D.(econ), 47. PROF. ECON. & FINANCE, SCH. BUS, BARUCH COL, CITY UNIV. NEW YORK, 34-, ASSOC. DEAN GRAD. STUDIES & EXEC. OFFICER DOCTORAL PROG. BUS, 63- Lectr, Stonier Grad. Sch. Banking, Rutgers, 60-61; vis. prof. grad. faculty, Columbia, 62-63. Consult, Am. Bankers Asn, 55-61; Gen. Elec. Co, 56-57; Inst. Life Ins, 57; Youngstown Sheet & Tube Co, 57-58; Bristol-Myers Corp, 58-59, 67-; Volkswagen Corp. Am, 60-62; Hertz Corp, 60; Singer Mfg. Corp, 61; Anti-Trust Invest. Group, 61-64; Am. Elec. Power, 64-65; Am. Express, 65-66; Am. Airlines, 66-67. U.S.N.R, 43-46, Lt. Econ. Asn; Finance Asn; Asn. Bus. Econ; Royal Econ. Soc; Coun. For. Rels; Statist. Asn; Nat. Tax Asn. Anti-trust investments. Publ: Personal finance, 3rd ed, 64 & Investment analysis and portfolio management, 67, Irwin; The financial manager, Harper, 66. Address: 135 E. 74th St, Apt. 10A, New York, N.Y. 10021.

COHEN, DR. JOEL BENJAMIN, b. New York, N.Y, July 2, 39; m. 67. MARKETING. B.S, California, Los Angeles, 62, M.B.A, 63, Journey for Perspective Found. fel, summer, 63, univ. fel, 65-66, Ph.D.(bus. admin), 66. Instr. mkt, California, Los Angeles, summers 65 & 66; ASST. PROF, ILLINOIS, URBANA, 66-Univ. Res. Bd. grant consumer behav, 68. Vis. asst. prof, California, Los Angeles, summer, 67; mem, Inst. Mgt. Sci. Col. Mkt. Asn. Pub. Opinion Res. Consumer behavior, especially the process and effects of mass communications, attitude change and measurement and interpersonal orientations to the study of personality. Publ: Co-auth, Cognitive dissonance and consumer behavior: reactions to the Surgeon General's report on smoking and health, fall 65 & auth, Toward an interpersonal theory of consumer behavior, spring 68, Calif. Mgt. Rev; auth, An interpersonal orientation to the study of consumer behavior, J. Mkt. Res, 8/67. Address: Dept. of Marketing, College of Commerce, University of Illinois, Urbana, Ill. 61801.

COHEN, DR. JON SHELDON, b. Birmingham, Ala, Oct. 22, 39; m. 62; c. 2. ECONOMICS. B.A, Columbia, 60; Fulbright travel grant, 64; traveling fel. from California, 64, Ph.D.(econ), 66. ASST. PROF. ECON, YALE, 66- Econ. Asn; Econ. Hist. Soc. European economic history since the industrial revolution, especially in Italy. Publ: Finance and industrialization in Italy, 1894-1914, J. Econ. Hist, 9/67. Address: Dept. of Economics, Yale University, New Haven, Conn. 06520.

COHEN, PROF. JOZEF, b. Brookline, Mass, July 21, 21; m. 58. PSYCHOLOGY. B.S, Chicago, 42; Sage fel, Cornell, 42-45, Ph.D.(exp. psychol), 45. Asst. prof. PSYCHOL, ILLINOIS, URBANA, 47-51, ASSOC. PROF, 51- Consult, Electronic Color Corp, 65- Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc. Sensory psychology; color vision. Publ: Co-auth, Vector model for color sensations, J. Optical Soc. Am, 62; auth, Dependency of spectral reflectance curves, 64 & Stimulus intensity and the visual generalization gradient to wavelength in the pigeon, 67, Psychonomic Sci. Address: 303 Burkwood Court West, Urbana, Ill. 61801.

COHEN, PROF. KALMAN J(OSEPH), b. Youngstown, Ohio, Feb. 3, 31; m. 56; c. 3. ECONOMICS, INDUSTRIAL ADMINISTRATION. B.A, Reed Col, 51; Rhodes scholar. & B.Litt, Oxford, 53; fel, Cornell, 53-54; univ. & Nat. Sci. Found. fels, Carnegie Inst. Tech, 56-59, M.S, 56, Ph.D.(econ), 59. Asst, opers. res. group, Case, 55; mem. tech. staff, mgt. sci. dept, Ramo-Wooldridge Corp, 56-57; instr. econ, CARNEGIE-MELLON UNIV, 58, res. assoc, ECON. & INDUST. ADMIN, 58-59, asst. prof, 59-61, assoc. prof, 61-66, PROF, 66-, acting head dept. econ, 62-63, head, 63-66. Seminar leader, Ford Found. Summer Faculty Seminars, 59-62; Ford Found. award, 59 & faculty res. fel, 63-64; res. grants, Robert Morris Assocs, 64, Nat. Sci. Found, 64-66 & Fed. Deposit Ins. Corp, 66-68; Scaife grant improvement of faculty, 67-68. Co-organizer & staff mem, courses on mgt. sci. in banking, 66-68. Consult, Bankers Trust Co, 59- Econ. Asn; Economet. Soc; Statist. Asn; Inst. Mgt. Sci; Opers. Res. Soc; Finance Asn. Microeconomics; computer simulation techniques; operations research; management games; banking and finance. Publ: Co-auth, The Carnegie Tech management game, Irwin, 64; Theory of the firm, Prentice-Hall, 65; Analytical methods in banking, Irwin, 66. Address: Graduate School of Industrial Administration, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

COHEN, PROF. LEO, b. Duluth, Minn, Aug. 27, 19; m. 49; c. 2. ECONOMICS. M.A, California, Los Angeles, 53, Ph.D, 58. Asst. prof. ECON, Kans. State Col, 54-58, assoc. prof, 58-59; SOUTHERN ILLINOIS, 59-62, PROF, 62- Sig.C, 41-46, 47-48, 50-52, Capt. Econ. Asn; Finance Asn; Nat. Tax. Asn; Tax Inst. Am. Public finance and fiscal policy; structure of federal income tax base; state and local taxation; state and local tax problems and tax studies. Publ: Comparative fiscal capacity and tax effort of local units of government in Illinois, Southern Illinois Univ, 63; An empirical measurement of the built-in flexibility of the individual income tax, Am. Econ. Asn. Papers and Procs; A suggested framework to alleviate the state-local fiscal dilemma, Nat. Tax Asn. Proc, 63. Address: 102 Westmoreland, Collinsville, Ill. 62234.

COHEN, DR. LEON, b. New York, N.Y, Nov. 3, 22; m. 56; c. 2. PSYCHOLOGY. A.B, George Washington, 43; M.A, Columbia, 47, Ph.D.(psychol), 55. Voc. adv, VET. ADMIN. HOSP, Castle Point, N.Y, 48-51, CHIEF COUNSELING PSYCHOL. SERV, NORTHPORT, 55- Instr, teachers col, Columbia, 54-55, 59-60, 63-; N.Y, Univ, 56, 59; Adelphi Col, 61. U.S.A, 43-46, 51-52, Res, 52-, Maj. Psychol. Asn; Personnel & Guid. Asn. Counseling psychology; rehabilitation. Publ: Vocational planning and mental illness, Personnel Guid. J. Address: Veterans Administration Hospital, Northport, N.Y. 11731.

COHEN, DR. LEON B, b. Brooklyn, N.Y, Aug. 29, 21; m. 49; c. 2. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 47; Ph.D.(psychol), Michigan, 51. Clin. psychologist, Winter Vet. Admin. Hosp, Topeka, Kans, 51-57; VET. ADMIN. HOSP, Brockton, Mass, 57-59, CHIEF CLIN. PSYCHOLOGIST, PHILA, 59- U.S.A, 43-45. Psychol. Asn. Projective techniques; community involvement in mental health programs; utilization of the muscle system as a tension relieving device; cardiac patients undergoing open heart surgery on the heart-lung machine. Publ: A group approach to the treatment of chronic schizophrenic patients, Psychiat. Neurol. Serv. Info. Bull. Address: Veterans Administration Hospital, Philadelphia, Pa. 19104.

COHEN, DR. LEON S, b. Detroit, Mich, Jan. 26, 38; m. 63; c. 1. POLITICAL SCIENCE. B.S, Wayne State, 60; Ph.D.(polit. sci), North Carolina, Chapel Hill, 65. Asst. POLIT. SCI, Wayne State, 60-61; Falk fel, North Carolina, 61-62, part time instr, 62-65; ASST. PROF, GRAD. SCH. PUB. AFFAIRS, STATE UNIV. N.Y. ALBANY, 65- Joint Awards Coun, State Univ. N.Y. Res. Found. res. grant, 68-69. U.S.M.C.R, 56-62. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. State constitutional convention delegates and legislative behavior, especially applications of role theory to study of state legislators. Address: Graduate School of Public Affairs, State University of New York at Albany, 179 Partridge St, Albany, N.Y. 12203.

COHEN, DR. LESTER, b. New York, N.Y, June 17, 30. PSYCHOLOGY. A.B, N.Y. Univ, 50; Ph.D.(clin. psychol), Nebraska, 55. Trainee clin. psychol, Vet. Admin. Hosps, Nebr. & Wis, 50-55; res. psychologist, State Dept. Ment. Hyg, Calif, 58-60; clin. psychologist, Langley Porter Inst, 60-65; staff psychologist, Conard House, Calif, 66-67; CONSULT. PSYCHOLOGIST, J. FREDERICK MARCY & ASSOC, SAN FRANCISCO, 67- Consult, Mt. Zion Hosp. & Med. Center, 61; res. consult, Jewish Family Serv. Agency, 61. U.S.A.F, 55-58, 1st Lt. Psychol. Asn. Psychotherapy and personality development; psychological issues in war and peace. Publ: Co-auth, Marital family and the mental hospital, Soc. Prob; Two types of crisis in schizophrenic women, Bull. Menninger Clin; Divergent reactions to the threat of war, Science, 1/63. Address: 268 Woodward, Sausalito, Calif. 94965.

COHEN, DR. LOIS RUTH KUSHNER, b. Philadelphia, Pa, May 31, 38; m. 60. SOCIOLOGY. B.A, Pennsylvania, 60; M.S, Purdue, 61, Ph.D.(sociol), 63. Res. coordinator sociol, Purdue, 63-64; vis. lectr, Howard, 64; soc. sci. analyst, soc. studies br, DIV. DENT. HEALTH, U.S. PUB. HEALTH SERV, 64-65, PUB. HEALTH ANALYST, DISEASE CONTROL BR, 65-, CHIEF BEHAV. STUDIES, 67- Sociol. Asn; Pub. Health Asn. Medical sociology; dental public health. Publ: Co-auth, Dissensus, situs and egocentrism in occupational ranking, Brit. J. Sociol, 12/64; co-ed, Social sciences and dentistry, quarterly column in J. Pub. Health Dent, 66-; auth, Reaching practitioners by mail: an experiment in the dissemination of a dental innovation, Publ Health Reports, 8/66. Address: Division of Dental Health, U.S. Public Health Service, 8120 Woodmont Ave, Bethesda, Md. 20014.

COHEN, PROF. LOUIS D(AVID), b. Brooklyn, N.Y, Nov. 26, 12; m. 36; c. 2. PSYCHOLOGY. B.S, Brooklyn Col, 34; M.A, Columbia, 36; Ph.D, Duke, 49. Head psychologist, New York Penitentiary, 36-39; chief classification & ed, Ind. State Farm, 39-42; assoc. clin. psychol, Duke, 46-49, asst. prof. psychol, univ. & clin. psychol, sch. med, 49-54, assoc. prof. psychol. & med. psychol, 54-59, prof, 59-62; PROF. PSYCHOL. & CLIN. PSYCHOL. & CHMN. DEPT. CLIN. PSYCHOL, FLORIDA, 62- Consult, Vet. Admin. hosps, 50-; spec. consult, Nat. Inst. Ment. Health, 58-, consult, manpower & training br, 64-; selection, Peace Corps, D.C, 62-; psychiat, neurol. & psychol. div, Vet. Admin, D.C, 65-; consult. & chmn, cmn. ment. illness, South. Regional Ed. Bd, Ga, 66- U.S.A, 42-46, Lt. Col; U.S.P.H.S.R, 59- AAAS; fel. Psychol. Asn; Pub. Health Asn. Mental health epidemiology; methods of community intervention for mental health. Publ: Clinical psychology: current status, Int. Psychiat. Clins, 65; Consultation as a method of mental health intervention, In: Progress in clinical psychology, 66; Strategies and logistics in community research, Community Psychol, 66. Address: 1250 N.W. 61st Terrace, Gainesville, Fla. 32601.

COHEN, DR. LUCY M, b. San José, Costa Rica, May 9, 36; U.S. citizen. ANTHROPOLOGY. B.A, Mt. St. Mary's Col, 56; U.S. Pub. Health Serv. fel. & M.S.W, Catholic Univ, 59, Nat. Inst. Ment. Health fel. & Ph.D.(anthrop), 66. Clin. soc. worker, St. Elizabeths Hosp, Wash, D.C, 59-62; vis. prof. anthrop, Univ. of the Andes, Colombia, 65; asst. prof, Catholic Univ, 66-67; CHIEF PROG. EVAL. COMMUNITY MENT. HEALTH, U.S. DEPT. PUB. HEALTH, PLANNING & RES, 67- Vis. prof, Pontifical Univ. Javeriana, Colombia, 65; now: vis. lectr, Catholic Univ. Summer WHO consult, Colombia Ministry Health, 67. Fel. Anthrop. Asn; Asn. Social Workers; Soc. Appl. Anthrop. Cultural anthropology; complex societies; applied anthropology; research mentods; Latin America; culture and personality. Address: 911 Bunker Hill Rd. N.E, Washington, D.C. 20017.

COHEN, MARTIN ALVIN, b. Chicago, Ill, Aug. 2, 15; m. 41; c. 2. ECONOMICS. B.S, Ill. Inst. Tech, 36; M.A, Chicago, 41. Economist, mat. command, U.S. Army Air Force, 41-43; grad. lectr. ECON, ILL. INST. TECH, 46-64, ASSOC. PROF, 64- Referee, Off. Price Admin, 46-47. U.S.A.A.F, 43-46, Sgt. Arbit. Asn; Econ. Asn; Indust. Rels. Res. Asn; Nat. Acad. Arbit. Collective bargaining; grievance arbitration. Publ: Co-auth, Collective bargaining in motor freight industry, Indust. & Labor Rels. Rev. Address: Dept. of Business & Economics, Illinois Institute of Technology, Chicago, Ill. 60616.

COHEN, DR. MICHAEL, b. Detroit, Mich, June 25, 29. POLITICAL SCIENCE. B.A, Wayne State, 51, M.P.A, 62; Ph.D.(pub. admin), Cornell, 66. From employ. counsr. to asst. dir. div. employ. counseling, Dept. Pub. Welfare, City of Detroit, 51-61; res. assoc, Wayne State, 61-62; from instr. to asst. prof. POLIT. SCI, State Univ. N.Y. Binghamton, 65-67; ASST. PROF, GEORGIA, 67- Consult, Four County Library Surv, Binghamton, 66-67. Polit. Sci. Asn; Soc. Pub. Admin; Soc. Study Social Probs. Public administration; organization theory; the social work profession. Publ: The emergence of private practice in social work, Soc. Probs, summer 66; Some characteristics of social workers in private practice, Soc. Work, 4/66. Address: Dept. of Political Science, University of Georgia, Athens, Ga. 30601.

COHEN, PROF. M(ORRIS), b. Philadelphia, Pa, Mar. 27, 19; m. 50; c. 1. ECONOMICS. B.A, Pennsylvania, 39; M.A, Pa. State, 41; M.P.A, Harvard, 52, Ph.D, 58; Sheldon traveling fel, Cambridge 52-53. Economist, U.S. Bd. Invest. & Res, 42-43; Off. Price Admin, 46; bus. economist, off. bus. econ, U.S. Dept. Commerce, 47-50; instr. acct, Mass. Inst. Tech, 51-52; sr. res. analyst bus. econ, Nat. Indust. Conf. Bd, 53-60; assoc. ed. & assoc. economist, Fortune Mag, 60-67; PROF. FINANCE & DIR. BUS. RES, GRAD. SCH. BUS, LONG ISLAND, 67- Lectr, Baruch Sch. Bus. Admin, City Col. New York, 55-60; grad. div, St. John's (N.Y), 60- Mem. conf. res. income & wealth, Nat. Bur. Econ. Res; Conf. Consumption & Econ. Develop. U.S.A, 43-46. AAAS; Econ. Asn; Statist. Asn; Finance Asn; Mkt. Asn; Asn. Bus. Econ; Royal Econ. Soc. National income; consumption economics; business fluctuations; capital formation; preparation of an econometric flow of funds model; determinants of capital expenditures. Publ: Co-auth, Business fluctuations, growth and economic stabilization, Random, 63; Fiscal policy issues of the coming decade, Joint Econ. Cmt, U.S. Govt. Printing Off, 65; How business economists forecast, Prentice-Hall, 66. Address: Graduate School of Business, Long Island University, Brooklyn, N.Y. 11201.

COHEN, PROF. MORRIS H(AROLD), b. Cincinnati, Ohio, Apr. 28, 17. POLITICAL SCIENCE. A.B, Chicago, 39, Ph.D, 50; Harvard, 40-41. Asst. prof. GOVT, CLARK, 47-53, assoc. prof, 53-66, PROF, 66- Ford Found. fel, 51-52; Fulbright lectr, Munic. Univ. Amsterdam, 55-56. Polit. Sci. Asn. Political parties and public opinion; minority groups and American politics; American constitutional law and civil liberties. Address: Dept. of History, Government & International Relations, Clark University, Worcester, Mass. 01610.

COHEN, PROF. MURRAY L(OUIS), b. Paterson, N.J, Aug. 17, 25; m. 47; c. 2. PSYCHOLOGY. A.B, N.Y. Univ, 50; M.A, Missouri, 52; Ph.D.(psychol), Boston, 55. Psychologist, Vet. Admin. Hosp, Brockton, Mass, 55-56, supvry. psychologist, 56; instr. PSYCHOL, BOSTON, 56-58, asst. prof, 58-60, assoc. prof, 61-67, PROF, 67- Voc. Rehab. Asn-Nat. Insts. Health res. grant, 67-68. Consult, Vet. Admin. Hosp, Bedford, 56-60; State Dept. Ment. Health, Mass, 56; res. consult, Worcester Child Guid. Clin, 60-61; consult, Vet. Admin, 61. U.S.C.G, 43-46. Psychol. Asn. Psychopathology; treatment of the sex offender. Publ: Contributions of the Rorschach test to the understanding of acting out behavior, J. Nerv. & Ment. Disorders; Parole violation and the early development of internal controls, Arch. Criminal Psychodynamics; co-auth, The sexually dangerous person, New Eng. J. Med, 66. Address: Dept. of Psychology, Boston University, Boston, Mass. 02215.

COHEN, REUBEN, b. Washington, D.C, Nov. 26, 21; m. 43; c. 3. STATISTICS. B.S, American Univ, 47, M.A, 56. Res. assoc, Bur. Soc. Sci. Res, 53-54; res. dir, Off. Armed Forces Info. & Ed, U.S. Dept. Defense, 54-55; V.PRES, OPINION RES. CORP, 56- Statist. Asn; Sociol. Asn; Asn. Pub. Opinion Res. Sampling and statistical analysis in market and atitude research. Address: 99 Meadowbrook Dr, Princeton, N.J. 08540.

COHEN, DR. RONALD, b. Toronto, Ont, Jan. 22, 30; m. 55; c. 3. ANTHROPOLOGY. B.A, Toronto, 51; M.Sc, Wisconsin, 55, Ford Found. fel, 55-57, Ph.D, 60. Lectr. anthrop, Toronto, 58-61; asst. prof, McGill, 61-63; ASSOC. PROF. ANTHROP. & POLIT. SCI, NORTHWESTERN, 63- Consult, north. coor. & res. center, Dept. North. Affairs & Natural Resources, Can, 60- Assoc. mem, Rhodes-Livingstone Inst, 58-; guest ed, Africa Issue Anthropologica, 62. Fel. Anthrop. Asn; assoc. Sociol. Asn; assoc. African Studies Asn; assoc. Int. African Inst. African cultures; social and political change and development, especially in Africa and the Canadian Arctic; program of African studies, Northwestern University. Publ: The Kanuri of Bornu, Holt,

67; co-ed, Comparative political systems, Natural Hist, 67; auth, Modernism and the hinterland, Int. J. Comp. Sociol, 66. Address: Dept. of Anthropology, Northwestern University, Evanston, Ill. 60201.

COHEN, DR. ROSALIE A, b. Pittsburgh, Pa, Feb. 2, 23; m. 42; c. 5. SOCIOLOGY. B.A, Ind. Cent. Col, 50; M.Ed, Duquesne, 58; Nat. Insts. Health fel, Pittsburgh, 64-65, Andrew Mellon fel, 65-66, Ph.D.(sociol), 67. Res. asst. poverty & ed, learning res. & develop. center, PITTSBURGH, 65-67, ASST. PROF. RES, GRAD. SCH. SOC. WORK & INSTR. SOCIOL, 67- Resource consult. & lects, Pittsburgh Bd. Ed, 65-, Nat. Teachers Corps, Univ. Pittsburgh, 66- & dept. int. & develop. ed, 67 & res. adv. bd, Harmarville Rehab. Center, 67. Sociol. Asn; Nat. Conf. Soc. Welfare. Research methodology; sociology of poverty, particularly cognition and cultural difference; sociology of education; medical sociology. Publ: Primary group structure, conceptual styles and school achievement, Learning Res. & Develop. Center, Univ. Pittsburgh, 67; co-auth, The language of the hard core poor: Implications for culture conflict, Sociol. Quart, winter 68; auth, Role theory and chronic illness, Psychol. Bull, 4/68. Address: 6301 Bartlett St, Pittsburgh, Pa. 15217.

COHEN, PROF. S(ANFORD), b. Cleveland, Ohio, Sept. 8, 20. ECONOMICS. Ph.D, Ohio State, 51. Br. chief, Wage Stabilization Bd, 51-53; asst. prof. econ, Western Reserve, 52-57; prof, Butler, 57-62; vis. prof. indust. rels, Illinois, 62-63; manpower expert, Govt. Bolivia, 63-64; vis. prof. ECON, Michigan, 64-66; PROF. NEW MEXICO, 66- Fund. Adv. Ed. fel, 55-56; lectr. manpower seminar, Econ. Cmn. Africa, Dakar, 67. Consult, Richard D. Kirschner Assocs, 66-; faculty dir, manpower inst, U.S. Dept. Labor, summers 66, 67; consult, Conf. Secretariat, Southeast Asia Ministries of Ed, 67. U.S.A, 43-45. Econ. Asn; Indust. Rels. Res. Asn. Publ: Labor Law, 64 & Labor in the United States, 2nd ed, 66, C.E. Merril; co-auth, Management preparation for collective bargaining, Jones-Irwin, 66. Address: Dept. of Economics, University of New Mexico, Albuquerque, N.Mex. 87106.

COHEN, DR. SANFORD I, Psychiat, Psychophysiol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

COHEN, DEAN SAUL B(ERNARD), b. Malden, Mass, July 28, 25; m. 50; c. 2. GEOGRAPHY. A.B, Harvard, 47, A.M, 49, Ph.D.(geog), 55. From asst. prof. to assoc. prof. geog, Boston, 52-63, prof, 63-64; exec. secy, Asn. Am. Geogr, 64-65; PROF. GEOG. & DIR. GRAD. SCH. GEOG, CLARK, 65-, DEAN GRAD. SCH, 67- Vis. lectr, Yale, 55; vis. prof, U.S. Naval War Col, 57. V.chmn, Consortium Prfnl. Asn, 65-; mem. U.S. cmt, Int. Geog. Union, 65-; chmn, Cmn. Col. Geog, 65-67; cmn. geog, Nat. Acad. Sci-Nat. Res. Coun, 66- U.S.A, 43-46. Fel. AAAS; Asn. Am. Geog. Political geography; education. Publ: Geography and politics in a world divided, Random, 63; auth. & ed, Problems and trends in American geography, Basic Books, 67. Address: Clark University, Worcester, Mass. 01610.

COHEN, DR. SHELDON MORRIS, b. New York, N.Y, Oct. 7, 34; m. 55; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 56; M.A, City Col. New York, 59; Nat. Sci. Found. fel, Yeshiva, 60-61, Ph.D.(psychol), 63. ASST. PROF. PSYCHOL, Seton Hall, 63-67; BARD COL, 67- Part-time lectr, Upsala Col, 67. Psychol. Asn. Human motivation and values; personality study. Publ: Phenomenon of self-negation and punishment reconsidered, J. Humanistic psychol, fall 65; Understanding and misunderstanding, Insight, fall 66; co-auth, Identity as actuality and as possibility, Ment. Hyg, 4/67. Address: Dept. of Psychology, Bard College, Annandale-on-Hudson, N.Y. 12504.

COHEN, DR. SIDNEY, b. New York, N.Y, Oct. 3, 22; m. 46; c. 3. MARKETING, STATISTICS. B.S, City Col. New York, 42; M.B.A, N.Y. Univ, 47, Ph.D, 50. Statistician, Inst. Psychol. Res, 46-47; head statist. lab, teacher's col, Columbia, 47-50; economist, State Planning Cmn, Md, 50-51; res. dir. & sales analyst, S. Schapiro & Sons, 51-52; consult, 52-53; dir. mkt. res, Hecht Co, 53-56; mgr. mkt. res, Gunther Brewing Co, 56-58; Ruppert Brewing Co, 58-61; PARTNER, SIDNEY HOLLANDER ASSOCS, 61- Sig.C, U.S.A, 42-45. Mkt. Asn; Statist. Asn; Econ. Asn. Business potentials and shopping center analysis; consumer preferences and motivations; traffic and planning analyses. Publ: How the retailer uses census traits; Location factors in establishing new manufacturing firms in Maryland; Probability tables for item analysis by means of sequential sampling. Address: 5717 Uffington Rd, Baltimore, Md. 21209.

COHEN, DR. SOL, Hist. of Ed, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COHEN, DR. VICTOR H(ERMAN), b. New York, N.Y, Mar. 1, 18; m. 43; c. 4. POLITICAL SCIENCE, HISTORY. B.A, Wyoming, 39, M.A, 40; Ph.D.(diplomatic hist, polit. sci), Oklahoma, 51. Instr. govt, Assoc. Cols. of Upper N.Y, 46-48; hist, Oklahoma, 48-51; historian, hist. div, Air Univ, 51-57; mil. historian, U.S. Air Force Acad, 57-58; chief res. & writing, Continental Air Command, 58-60; ED. ADV. INT. RELS, AIR WAR COL, 60- Lectr, exten. center, Alabama, 51-62; George Washington Univ. Center, Maxwell Air Force Base, 62-; summer lectr, Wyoming, 49. Adj. Gen. C, U.S.A, 1st Lt. Polit. Sci. Asn. International organizations, especially peacekeeping in the United Nations. Publ: James Bridger's claims, Ann. Wyo, 7/40; Charles Sumner and the Trent affair, J. South. Hist, 5/56; co-auth, Was Charles Sumner shamming?, New Eng. Quart, 9/60. Address: Air War College, Maxwell Air Force Base, Montgomery, Ala. 36112.

COHEN, DR. WILBUR J(OSEPH), b. Milwaukee, Wis, June 10, 13. PUBLIC ADMINISTRATION. Ph.B, Wisconsin, 34, LL.D, 66; D.H.L, Adelphi, 62. Res. asst. to exec. dir, President's Cmt. Econ. Security, 34-35; cmt. pub. admin, Soc. Sci. Res. Coun, 35; tech. adv, Soc. Security Admin, 36-54, dir. res, 53-56; prof. pub. welfare admin, Michigan, 56-61; asst. secy, U.S. DEPT. HEALTH, ED. & WELFARE, 61-65, UNDERSECY, 65-68, SECY, 68- Dir. res, President's Cmt. Universal Training, 47; chmn, Presdient's Task Force Health & Soc. Security, 60-61. Econ. Asn; Pub. Welfare Asn. Social security; medical care. Publ: Readings in social security; Retirement policies under social security, Univ. California, 57. Address: Dept. of Health, Education & Welfare, Washington, D.C. 20201.

COHEN, DR. WILLIAM J(ACOB), b. Boston, Mass, Dec. 14, 22; m. 46; c. 6. CLINICAL PSYCHOLOGY. A.B, Northeastern, 43; Iowa, 43-44; N.Y. Univ, 46; Ph.D.(psychol), Western Reserve, 50. Intern clin. psychol, McLean Hosp, Waverly, Mass, 46-47; ment. hyg. clin, Vet. Admin, Cleveland, Ohio, 47-50, supvr, Phila, Pa, 50-57; clin. psychologist, DEVEREAUX FOUND, 57-63, COORDINATOR SERV. & TRAINING SCH. PSYCHOL, 63- Instr, Northeastern, 46-47; private practice, 54-; lectr, Pa. State, 65- Consult, Bur. Child Care, Phila, 54-60; Phila. Bd. Ed, 60-64; George Sch, 64-67. Dipl. Am. Bd. Exam. Prfnl. Psychol, 59. U.S.A, 43-45, Sgt. Psychol. Asn. School psychology; evaluation and remediation of learning disabilities; child development; educational psychology; psychology of exceptional child; marriage and family counseling. Publ: Self concept in childhood, autumn 64 & Parent-teacher conference as a collaborative effort, spring 65, Devereux Forum; Controls from without, Devereux Found, summer 67. Address: 138 N. Rolling Rd, Springfield, Pa. 19064.

COHEN, PROF. YEHUDI A, b. New York, N.Y, June 7, 28; m. 48. ANTHROPOLOGY. B.A, Brooklyn Col, 48; Wenner-Gren fel, Yale, 50-51, Ph.D. (anthrop), 53. Instr. anthrop, Conn. Col, 52-53; res. anthropologist, dept. psychiat, Walter Reed Army Med. Center, 54-55; lectr. sociol, Columbia, 56-62; res. assoc, Soc. Res, Inc, 62-64; assoc. prof. ANTHROP, California, Davis, 64-67; PROF, LIVINGSTON COL, RUTGERS, 67- Instr, Albert Einstein Col. Med, 55-59; U.S. Off. Ed. res. grant, 67-69. Sociopsychol. award, Am. Asn. Adv. Sci, 55. U.S.A, 53-54. Anthrop. Asn; Sociol. Asn. Social structure, culture and personality; cross-cultural research; culture change; evolution; social systems of nations. Publ: Social structure and personality: a casebook; The transition from childhood to adolescence, 64 & Man in adaptation, 2 vols, 68, Aldine. Address: Dept. of Anthropology, Livingston College, Rutgers, The State University, New Brunswick, N.J. 08903.

COHN, DR. ALFRED, b. New York, N.Y, June 7, 36; m. 58; c. 2. SOCIAL PSYCHOLOGY. A.B, Harvard, 58; Ph.D.(soc. psychol), N.Y. Univ, 64. Instr. PSYCHOL, N.Y. Univ, 62-63; HOFSTRA, 63-65, ASST. PROF, 65- Psychol. Asn; Soc. Psychol. Study Social Issues. Attitude theory; social gerontology; community psychology. Address: Dept. of Psychology, Hofstra University, Hempstead, N.Y. 11550.

COHN, DR. BARBARA NORFLEET, b. Lakewood, N.J, Feb. 18, 26; m. 50; c. 2. PSYCHOLOGY. A.B, Swarthmore Col, 47; fel, Harvard, 48-51; Ph.D. (soc. rels), Radcliffe Col, 51. Res. asst, HARVARD, 51-52, res. assoc, 60-65, LECTR. SOC. RELS, 65- Psychol. Asn. Culture and personality; evolution of behavior. Publ: Projective methods and verbal learning, J. Abnorm. & Soc. Psychol; Interpersonal relations and group productivity, J. Soc. Issues. Address: 79 Raymond St, Cambridge, Mass. 02140.

COHN, DR. BENJAMIN, b. Miami, Fla, Nov. 29, 24; m. 58; c. 2. EDUCATION, PSYCHOLOGY. B.S, Kentucky, 49, M.S, 50; Ed.D, Indiana, 58. Teacher, elem. sch, Ky, 50-52, prin, 52-56; counsr, cent. counseling off, Indiana, 56-58, counseling consult, BD. COOP. ED. SERV, FIRST SUPVRY. DIST, N.Y, 58-61, chief investr. group counseling proj, 61-64, DIR. PRFNL. & PUPIL PERSONNEL SERV, 64- Private practice, N.Y, 59-; summers, res. assoc, Illinois, 59, vis. instr, Kent State, 60-61. U.S.A, 43-46. Psychol. Asn; Group Psychother. Asn; Personnel & Guid. Asn. Group counseling; counseling techniques and counselor training; professionalization of school counseling program; learning difficulties of first grade children involving visual, auditory and tactile kinesthetic perceptions. Publ: School report on group counseling & co-auth, Group counseling: an orientation, 62, Am. Personnel & Guid. J; auth, Guidance and counseling in groups, NEA Jour, 10/66. Address: Professional & Pupil Personnel Services, Board of Cooperative Educational Services, 42 Triangle Center, Yorktown Heights, N.Y. 10598.

COHN, PROF. BERNARD S(AMUEL), b. Brooklyn, N.Y, May 13, 28; m. 50; c. 4. SOCIAL ANTHROPOLOGY. B.A, Wisconsin, 49; Am. Coun. Learned Socs. grant, 51; Soc. Sci. Res. Coun. fel, 52-53; Fulbright grant, 52-53; Ph.D, Cornell, 54. Asst. soc. sci, U.S. Dept. Army, 54-56; instr. anthrop, Georgia, 55-56; res. assoc, Chicago, 56-57, asst. prof, 57-58, 59-60; res. fel, Rockefeller Found, 58-59; assoc. prof. anthrop. & sociol. & chmn. dept, Rochester, 60-64; S.ASIAN HIST. & ANTHROP, CHICAGO, 64-66, PROF, 66- Am. Coun. Learned Socs-Soc. Sci. Res. Coun. grant res. on Asia, 62; Guggenheim fel, 64; Richards lectr, Virginia, 64; vis. prof, Michigan, 67; fel, Center Adv. Study Behav. Sci, 67-68. Fel. Anthrop. Asn; Asn. Asian Studies; Hist. Asn. Cultures of South Asia; social structure; history of modern India; legal and political structures; application of social science to historical studies; history of social and cultural anthropology. Publ: Development of British administration in India: a bibliographic essay; co-ed, Structure and change in Indian society, Aldine, 68; Changing status of a depressed caste, In: Village India. Address: Depts. of Anthropology & History, University of Chicago, Chicago, Ill. 60637.

COHN, DR. JULES, b. U.S, June 18, 30. POLITICAL SCIENCE. A.B, Rutgers, 51, World Peace fel, 53, Kriendler Mem. fel. & A.M, 54, Ph.D, 58. Instr. polit. sci, Douglass Col, 54-55, lectr. govt, 61; instr, Bard Col, 55-58; Brooklyn Col, 58-60; Fulbright lectr, Finland, 60-61; Eagleton res. fel. polit. behav, 61-62; dir. conserv. proj, Housing & Redevelop. Bd, 62-63; dep. prog. planning, Mayor's Off, New York, 63-64; res. assoc. urban studies, Harvard, 64-65; asst. prof. polit. sci, N.Y. UNIV, 65-67, ASSOC. PROF. POLIT, 68- Mem. joint center urban studies, Harvard-Mass. Inst. Tech, 64-65. Consult, grad. sch. ed, Harvard, 63-65; City Planning Cmn, New York, 66- Sociol. Asn; Polit. Sci. Asn; Am. Studies Asn. American political and social thought; city politics; urban affairs and policy making. Publ: Politics as process; Politics and social welfare, President's Cmn. Juvenile Delinquency, 4/64; Politics in the city, Urban Affairs Quart, 6/67; Address: 4 Washington Square Village, Apt. 3-P, New York, N.Y. 10012.

COHN, DR. STANLEY H, b. Portland, Ore, Dec. 2, 22. ECONOMICS. B.A, Reed Col, 47; M.A, Chicago, 49, Ph.D.(econ), 52. Economist, Int. Monetary Fund, 50-51; U.S. Govt, 51-63; Res. Anal. Corp, 63-66; ASSOC. PROF. ECON, STATE UNIV. N.Y. BINGHAMTON, 66- Lectr, Maryland, 64-66. Consult, Res. Anal. Corp, 66. U.S.A, 43-46, S/Sgt. Am. Econ. Asn; Asn.

Study Soviet-Type Econ; Asn. Comp. Econ. Soviet economics; comparative economic systems and growth studies. Publ: Contrib, studies of Joint Economic Committee, U.S. Cong. Soviet Econ, 62-66; Article, In: 1917 Revolution: promise and realization, the Soviet record, Praeger, 67; Chap, In: Toward a Soviet new economics, Johns Hopkins, 68. Address: Dept. of Economics, State University of New York at Binghamton, Binghamton, N.Y. 13901.

COHN, PROF. T(HOMAS) S(IMON), b. Chicago, Ill, Nov. 27, 25; m. 46; c. 4. PSYCHOLOGY. B.A, Michigan, 47, M.A, 48, fel, 49-50, Ph.D, 53. Lectr. PSYCHOL, California, 50-52; from instr. to assoc. prof, Wayne State, 53-61; assoc. prof, MICHIGAN, 61-65, PROF, 65-, chmn. dept. soc. & behav. sci, 64-66. AAAS; Psychol. Asn. Socialization processes of children; leadership. Publ: Co-ed, The study of leadership; Is the F scale indirect?; Administration of the F scale to a sample of Germans, J. Abnorm. & Soc. Psychol. Address: Dept. of Social & Behavioral Sciences, University of Michigan, Dearborn, Mich. 48120.

COHN, DR. WERNER, b. Berlin, Germany, Mar. 24, 26; nat; m. 51; c. 4. SOCIOLOGY. B.S.S, City Col. New York, 51; M.A, New Sch. Soc. Res, 54, Ph.D, 56. Mem. staff SOCIOL, Northland Col, 56-60; spec. lectr, exten. dept, Wisconsin, 56-60; asst. prof, BRITISH COLUMBIA, 60-64, ASSOC. PROF, 64- Sr. fel, Can. Coun, 66-67. U.S.N, 44-46. Fel. Sociol. Asn; fel. Soc. Sci. Study Relig; Gypsy Lore Soc. Sociology of religion; Jehovah's Witnesses, American Jews and Pentecostal groups; gypsies. Contrib, Am. Scholar, Am. Sociol. Rev. and Commentary. Address: Dept. of Anthropology & Sociology, University of British Columbia, Vancouver 8, B.C, Can.

COJEEN, PROF. ROBERT HENRY, b. Ishpeming, Mich, June 5, 20; m. 52; c. 3. MANAGEMENT SCIENCE, ACCOUNTING. B.B.A, Michigan, 46, M.B.A, 47; D.B.A, Indiana, 55. Instr. acct, Florida, 47-48; assoc. prof, Kentucky, 48-56; BUS. ADMIN, MICHIGAN, 56-61, PROF, 61-, CHMN. DEPT, 65- Prof, Univ. Pittsburgh-U.S. Agency Int. Develop. contract, Ahmadu Bello Univ, Nigeria, 65-66. U.S.A, 42-45. Am. Acct. Asn; Nat. Asn. Acct. Examination of the management problems of overseas subsidiaries of United States manufacturing companies. Publ: Cases in branch plant personnel administration, Indiana Univ, 54; co-auth, Problems accompanying essentials of accounting, Macmillan, 58; auth, Case studies in Nigerian business, Ahmadu Bello Univ, 66. Address: Dept. of Business Administration, University of Michigan, Flint College, 1321 E. Court St, Flint, Mich. 48503.

COKE, PROF. JAMES G(UTHRIE), b. Auburn, Ky, Oct. 11, 26; m. 49; c. 5. POLITICAL SCIENCE. A.B, Harvard, 48; M.A, Minnesota, 52, League Minn. Munic. fel, 52-55, Ph.D, 56. Instr. math. & eng. drawing, Centre Col, 49-51; Fels Inst. Local & State Govt, Pennsylvania, 55-56, asst. prof, 56-58, assoc. prof, 58-61; assoc. prof. inst. govt. & pub. affairs & dir. off. community develop, Illinois, Urbana, 61-65; PROF. POLIT. SCI. & DIR. CENTER URBAN REGIONALISM, KENT STATE, 65- Exec. dir, Study Cmn. Phila. Metrop. Area, 57-61. U.S.N, 44-46. Polit. Sci. Asn; Regional Sci. Asn. Urban politics; city planning. Address: Center for Urban Regionalism, Kent State University, Kent, Ohio 44240.

COKER, DR. JOSEPH D(ANIEL), b. Hartsville, S.C, Dec. 15, 11; m. 35; c. 4. ECONOMICS. A.B, George Washington, 35, M.A, 37, Ph.D.(econ), 49, LL.B, 51. Chief rules & regulations sect, Bur. Internal Revenue, D.C, 38-42; sr. economist, War Prod. Bd, 42-43; chief econ. sect, ships bombardment surv. party, U.S. Strategic Bombing Surv, Japan & D.C, 45-46; chief, develop. off, Directorate Intel, U.S. Dept. Air Force, 46-55; DIR, NAT. RESOURCE EVAL. CENTER, OFF. EMERGENCY PLANNING, EXEC. OFF. PRESIDENT, 55- Prof. lectr, George Washington, 55-56. Mem. cmt. behav. sci, Nat. Acad. Sci, 60-63; participant, White House Conf. Int. Coop, 65; mem, Fed. Coun. 1970 Census. U.S.N, 43-46. Econ. Asn; Soc. Civil Eng. Industrial economics; economic intelligence and economic geography. Address: 3801 Belle Rive Terr, Alexandria, Va. 22309.

COLADARCI, PROF. ARTHUR P(AUL), b. Danbury, Conn, Oct. 24, 17; m. 47; c. 2. PSYCHOLOGY. B.Ed, Danbury State Col, 40; Hopkins, 41-42; M.A, Yale, 47, Ph.D.(ed. psychol), 50. Asst. prof. ed. psychol, Indiana, 50-52; assoc. prof. ED. & PSYCHOL, STANFORD, 52-59, PROF, 59-, ASSOC. DEAN ED, 67- Consult. ed, John Wiley & Sons, 57-; res. dir, Hawaiian Lang. Develop. Proj, 65-70; behav. sci. consult, Nat. Inst. Ment. Health, 65- U.S.A, 42-46, Capt. AAAS; Psychol. Asn; Psychonomic Soc. Problem-solving behavior; psychology of language; research methodology. Publ: Co-auth, Use of theory in educational administration; Statistical reasoning, C.E, Merrill, 65; Foundations of American education, Wiley, 67. Address: Stanford University School of Education, Stanford, Calif. 94305.

COLARELLI, DR. NICK JOHN, b. Canon City, Colo, Apr. 11, 30; m. 56; c. 5. PSYCHOLOGY. B.S, Regis Col.(Colo), 52; M.S, St. Louis, 55; Ph.D.(psychol), Northwestern, 58. Staff psychologist, Topeka State Hosp, Kans, 58-65; Psychol. Assocs, Mo, 65-66; ASSOC. PROF. PSYCHOL, ST. LOUIS, 66- Proj. co-dir, Nat. Inst. Ment. Health grant, 60-64; instr, Washburn, 58-65; lectr, sch. nursing, Washington (St. Louis), 65-66. Consult, Jewish Ed. & Voc. Serv, Mo, 65-; Alton State Hosp, Ill, 66- Psychol. Asn. Social and technological innovation in organization; social systems change; training methodologies; educational innovation. Publ: Co-auth, Ward H: an adventure in innovation, Van Nostrand, 66 & Police personnel selection: a methodology, J. Crime, Criminol. & Police Sci, 62; auth, Getting more from the research dollar, Ment. Hosps, 63. Address: Dept. of Psychology, St. Louis University, St. Louis, Mo. 63103.

COLBERG, PROF. MARSHALL R(UDOLPH), b. Chicago, Ill, June 11, 13; m. 42, 66; c. 2. ECONOMICS. A.B, Chicago, 34, hon. scholar, 34-35, A.M, 38; Ph.D.(econ), Michigan, 50. Statistician, War Prod. Bd, 40-43; economist, Civilian Prod. Admin, 46-47; prog. analyst, U.S. Dept. Air Force, 47-50; PROF. ECON, FLA. STATE, 50-, chmn. dept, 56-67. Consult, Soc. Welfare Admin, 64-66; U.S. Off. Ed, 66-67. U.S.A.A.F, 43-46. Econ. Asn. Economic theory; business economics; public finance. Publ: Co-auth, Prices, income and public policy, McGraw, 54, 2nd ed, 59; Business economics, Irwin, 59, 2nd ed, 64; auth, Human capital in southern development, N.C. Press, 65. Address: 2308 Don Andres Ave, Tallahassee, Fla. 32304.

COLBERT, PROF. R(OY) J(EFFERSON), b. Claypool, Ind, Mar. 8, 89. SOCIOLOGY. A.B, DePauw, 14; Michigan, 15-17; A.M, Wisconsin, 24, Ph.D, 30. Instr. sociol, Toledo, 14-18; prof. soc. tech, Tulane, 20-21; instr. SOCIOL. & ECON, WISCONSIN, 24-27, asst. prof, 27-30, assoc. prof, 30-38, prof, 38-59, dir. bur. community develop, 46-59, EMER. PROF, 59- Div. dir. res. & ed, Am. Red Cross, 18-19. Voter education; public administration; community organization; community progress created by small plants. Publ: Economic outlook of Wisconsin. Address: P.O. Box 663, State College, Miss. 39762.

COLBURN, PROF. DONALD L(UVERNE), b. Waverly, Iowa, Apr. 1, 26; m. 53; c. 2. PSYCHOLOGY. B.A, Cornell Col, 47; scholar, Drew, 47, Tipple fel. & B.D, 50; Ph.D, Boston, 58. Asst. prof. PSYCHOL, Southwestern Col, 55-58; assoc. prof, MANCHESTER COL, 58-66, PROF. & HEAD DEPT, 66- Psychol. Asn. Personality theory; group therapy procedures; psychological study of religious doubt. Address: Dept. of Psychology, Manchester College, North Manchester, Ind. 46962.

COLBURN, L(AWRENCE) D(ONALDSON), b. Freeman, Mo, Feb. 5, 19. ECONOMICS. B.S, Kans. State Col, 39; M.A, Kansas City, 50. Asst. regional sales mgr, Sears, Roebuck & Co, 39-45; res. economist, Consumers Coop. Asn, 46-47; consult, 47-50; v.pres, Econom. Inst, Inc, 50-58; PRES, ECON. FORECASTING INST, INC, 58- Lectr, Rockhurst Col, 48-50; Kansas City, 49-50. AAAS; Econ. Asn; Mkt. Asn; Finance Asn; Am. Agr. Econ. Asn; Econom. Soc; Can. Agr. Econ. Asn. Commodity prices; industrial and financial economics; economic geography. Address: Economic Forecasting Institute Inc, 28 E. First St, Mt. Vernon, N.Y. 10550.

COLBY, ARCHIE N(EWTON), Indust. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

COLBY, DR. BENJAMIN NICHOLAS, b. Evanston, Ill, Sept. 14, 31; m. 56. SOCIAL ANTHROPOLOGY. A.B, Princeton, 53; Soc. Sci. Res. Coun. fel. Harvard, 59-60, Ph.D.(soc. anthrop), 60. Res. assoc. anthrop, lab. soc. rels, Harvard, 60-62, instr. soc. anthrop, univ, 61-62, dir. southwest. field sta, 62-63; assoc. curator ethnol, res. lab. Mus. N.Mex, 63-64, curator, 64-67; ASSOC. PROF. ANTHROP, North Carolina, 67-68; CALIFORNIA, IRVINE, 68- Prin. investr, Nat. Insts. Health grants, 60-67; Nat. Sci. Found. grant, 65-67; consult. prof, New Mexico, 66; res. assoc, Cornell, 67. U.S.N, 53-55, Lt.(jg). AAAS; fel. Anthrop. Asn; Ethnol. Soc. Anthropology of complex and primitive societies: Latin American studies; cross-cultural research on values; ethnoscience and anthropological semantics; southwestern and Meso-American Indian studies; field work with Tzotzil, Navaho and Zuni Indians and the Ixil Maya of Guatemala; anthropological philosophy; intentional communities. Publ: Ethnic relations in the Chiapas Highlands, Mus. N.Mex, 66; co-auth, Ixil country: a plural society in highland Guatemala, Univ. California (in press); auth, Cultural patterns in narrative, Science, 66. Address: Division of Social Science, University of California, Irvine, Calif. 92664.

COLBY, PROF. CHARLES CARLYLE, Geog. see 9th ed. Soc. & Behav. Vols, deceased 65.

COLBY, DR. KENNETH M, b. Waterbury, Conn. Jan. 12, 20; m. 57; c. 2. PSYCHIATRY, COMPUTER SCIENCE. B.S, Yale, 41, M.D, 43. Fel. psychiat, Center Adv. Study Behav. Sci, 61-62; RES. ASSOC. COMPUT. SCI. STANFORD, 64- Res. scientist, Nat. Inst. Ment. Health, 67- Psychiat. Asn. Computer simulation of higher mental processes; computers in psychiatry. Publ: A primer for psychotherapists, 51 & Energy and structure in psychoanalysis, 55, Ronald; Introduction to psychoanalytic research, Basic Books, 60. Address: Dept. of Computer Science, Stanford University, Stanford, Calif. 94305.

COLBY, PROF. MARY McRAE, b. White Store, N.C, July 24, 98; m. 31; c. 2. GEOGRAPHY. B.A, E.Carolina Teachers Col, 28; M.S, Chicago, 30, Ph.D, 55. Teacher, E. Carolina Teachers Col, 28-31; ASST. PROF. GEOG. ILLINOIS, 46- Vis. prof, Concordia Teachers Col.(Ill), 67-68; summer vis. prof, Wyoming, 67. Asn. Am. Geog; Soc. Woman Geog; Coun. Geog. Ed. American regional and economic geography; world regional geography; ports and rivers, especially of Europe. Publ: Phillips atlas for the elementary grades; Cotton textile industry of the Carolinas' Piedmont: Geographic structure of southeastern North Carolina. Address: Dept. of Geography, University of Illinois, Chicago, Ill. 60637.

COLCORD, DR. FRANK CARLTON, JR, b. Rockville Center, N.Y, Nov. 5, 25. POLITICAL SCIENCE. A.B, Middlebury Col, 49; Syracuse, 49-50; Ph.D.(polit. sci), Mass. Inst. Tech, 64. Policy analyst, off. secy, U.S. Dept. State, 50-51; staff asst, off. dir. mutual security, Exec. Off. of President, 51-53; orgn. & mgt. analyst, Foreign Opers. Admin, 53-54; U.S. Bur. Budget, 55-56, budget analyst, 57-59; instr. POLIT. SCI, MASS. INST. TECH, 62-66, ASST. PROF, 66-, spec. asst. to chmn. corp, 63-66. U.S.N.R, 44-47, Lt.(jg). Polit. Sci. Asn. State, local, and metropolitan politics; transportation politics in large United States urban areas. Publ: Decision-making and transportation policy: a comparative analysis, Southwest. Soc. Sci. Quart, 12/67. Address: E53-490, Dept. of Political Science, Massachusetts Institute of Technology, Cambridge, Mass. 02142.

COLE, PROF. ALLAN B(URNETT), b. Kobe, Japan, July 3, 14; nat; m. 38; c. 2. POLITICS. A.B, Redlands, 34; M.A, Chicago, 37, Ph.D, 40; Cornell, 41; Rockefeller fel, Yale, 44-45; Harvard, 50-51. Instr. hist, Texas, 40-42; asst. prof, Oberlin Col, 42-46; assoc. prof. FAR EAST. AFFAIRS, Pomona Col. & Claremont Grad. Sch, 46-50; lectr, FLETCHER SCH, TUFTS, 50-54, PROF, 54- Fulbright res. fels, Japan, 52-53, Taiwan, 64-65; Ford Found. res. fel, 53-54; coordinator, studies Japan's Soc. Democratic Parties, Ford Found, 54- Asn. Asian Studies; Hist. Asn. Modern Chinese and Japanese history and politics; international relations of East Asia; politics of Communist China. Publ: Forty years of Chinese Communism, Am. Hist. Asn, 62; co-auth, Socialist parties in postwar Japan, Yale, 66; co-ed, Asian political systems, readings, Van Nostrand, 68. Address: Fletcher School of Law & Diplomacy, Tufts University, Medford, Mass. 02155.

COLE, DR. CHARLES W(ALTON), b. Merino, Colo, Apr. 6, 31; m. 54; c. 3. PSYCHOLOGY. A.B, Missouri, 53, M.Ed, 61, Ph.D.(psychol), 63. ASST.

PROF. counseling, Missouri, 63-64; PSYCHOL, COLORADO STATE, 64-U.S.A.F, 55-58, 1st Lt. AAAS; Psychol. Asn. Verbal behavior; behavior theory; research design. Publ: Effects of verbal stimuli in a counseling analogue, J. Counseling Psychol, 65; Non-linearity of self-concept discrepancy—the value dimension, Psychol. Reports, 67; Self-concept therapy for adolescent females, J. Abnorm. Psychol, 68. Address: Dept. of Psychology, Colorado State University, Ft. Collins, Colo. 80521.

COLE, PROF. CHESTER F, b. U.S. GEOGRAPHY. A.B, East. Wash. Col. Ed, 37; A.M, Washington (Seattle), 41; Ph.D, Nebraska, 51. Asst. prof. GEOG, FRESNO STATE COL, 47-54, assoc. prof, 54-59, PROF. & CHMN. DEPT, 59- Central Valley of California; irrigation agriculture; political geography. Address: Dept. of Geography, Fresno State College, Fresno, Calif. 93726.

COLE, DR. CLETUS A(ELRED) b. Tyndall, S.Dak, Dec. 8, 09; m. 39; c. 3. CLINICAL PSYCHOLOGY. B.S, North. State Teachers Col, S.Dak, 38; M.A, Creighton, 47; Ph.D, Catholic Univ, 57. Counsr, St. Paul's Indian Mission, 30-35; from teacher to prin, pub. schs, S.Dak, 36-41; spec. agent, Fed. Bur. Invest, 41-42; trainee psychol, Vet. Admin, 47-51; psychologist, counseling center, Catholic Univ, 51-52; dir. psychol. serv, Arlington County Pub. Schs, 52-67; PROF. PSYCHOL, OLD DOM. COL, 67- Chief clin. psychologist, Loudoun County Guid. Clin, 54-62; private practice, 56- Consult, Fed. Asn. Epilepsy; psychol. consult, Tidewater Rehab. Inst, 67-68. U.S.A, 42-46, Res, 38-42, 46-49; U.S.A.F.R, 49-, Lt. Col. Fel. AAAS; Psychol. Asn. Delinquency; projective techniques; individual and group psychotherapy; child adjustment; learning problems. Publ: The Q technique as a means of determining personality types in a group of delinquent boys. Address: 1216 Elk Ave, Norfolk, Va. 23518.

COLE, DR. DAVID C(HAMBERLIN), b. Detroit, Mich, May 24, 28; m. 53; c. 3. ECONOMICS. A.B, Cornell, 50; M.A, Michigan, 54, fel, 54-55, Ph.D, 59. Farm mach. specialist, China Prog, UNRRA, 46-47; economist, Vietnam Tech. Assistance Proj, Mich. State, 55-58; asst. prof. econ. & asst. dir. grad. prog. econ. develop, Vanderbilt, 58-62; int. economist, Agency Int. Develop, 62-64, sr. econ. adv, Korea Mission, 64-66; RES. ASSOC. ECON, CENTER INT. AFFAIRS, HARVARD, 66- Vis. prof, inst. econ. develop. & res, Philippines, 60-61. U.S.A, 50-52. Econ. Asn. Problems of stabilization and development of underdeveloped countries, especially fiscal and monetary policies in Asia; problems of development policies and planning in Asia. Address: Development Advisory Service, Center for International Affairs, Harvard University, 1737 Cambridge St, Cambridge, Mass. 02138.

COLE, DR. DAVID DALE, b. Farmington, W.Va, Jan. 10, 33; m. 57; c. 3. PSYCHOLOGY. B.S, Purdue, 58; Nat. Sci. Found. summer fels, West Virginia, 59, 62 & 64, M.A, 60, Ph.D.(psychol), 64. Instr. PSYCHOL, West Virginia, 60-64; ASST. PROF, NORTH CAROLINA, GREENSBORO, 65- Nat. Inst. Ment. Health fel, Emory, 64-65. U.S.N, 51-55. AAAS; Psychol. Asn. Experimental and physiological psychology; psychopharmacology. Publ: Co-auth, Social dominance in cats, Behavior, 66; Pharmacological modification of the effects of spaced occipital ablations, Psychopharmacologia, 67. Address: Dept. of Psychology, University of North Carolina, Greensboro, N.C. 27412.

COLE, DR. DAVID L(IVINGSTON), b. Glendale, Calif, Sept. 20, 22; m. 44; c. 3. PSYCHOLOGY. A.B, California, Los Angeles, 46; M.A, Occidental Col, 48; Ph.D.(psychol), Claremont Col, 54. Assoc. prof. PSYCHOL, OCCIDENTAL COL, 47-59, PROF, 59-, CHMN. DEPT, 54- U.S.A.A.F, 43-46. Psychol. Asn. Projective techniques; social psychology; predicting success in teaching. Publ: Communication and rapport in clinical testing, J. Consult. Psychol; Rational argument & prestige suggestion as factors influencing judgement, Sociometry; The prediction of teaching behavior, J. Ed. Res. Address: Dept. of Psychology, Occidental College, Los Angeles, Calif. 90041.

COLE, PROF. DAVID M(AURICE), b. Minneapolis, Minn, July 28, 10. ECONOMICS. B.A, Washington (Seattle), 37, M.B.A, 39; Ph.D.(econ), Columbia, 56. Acting prof. bus. admin, Albany Col, 38; instr, Ft. Hays Kans. State Col, 39-42; economist, Off. Price Admin, D.C, 43, 46-47; asst. prof. econ, Maryland, 47-52; economist, Fed. Deposit Ins. Corp, D.C, 56-66; PROF. ECON. & BUS. ADMIN, WIS. STATE, LA CROSSE, 66- U.S.N, 43-46. Econ. Asn; Finance Asn. Study of the history, structure, and operations of the commercial banking system. Publ: The development of banking in the District of Columbia, William-Frederick, 59. Address: Dept. of Economics & Business Administration, Wisconsin State University, La Crosse, Wis. 54601.

COLE, DR. DAVID W, b. Fremont, Ohio, Aug. 16, 38; m. 62. FINANCE. B.A, Capital Univ, 60; M.B.A, Ohio, 62; Fed. Reserve Bank Chicago fel, Indiana, 64-65, D.B.A, 65. ASST. PROF. FINANCE, OHIO STATE, 65- Summer res. asst, Ohio Univ. Develop. Fund, 61. Finance Asn. Management of financial institutions; structure and trends of financial institutions; debt financing and cost of capital research. Publ: Characteristics and trends of major types of private financial institutions, Ohio State Univ. Bur. Bus. Res, 68; Bank debt financing, Bus. Conditions, 12/65; co-auth, State banking regulation in Ohio: selected problems, Ohio Legis. Serv. Cmn, 2/67. Address: College of Commerce, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

COLE, DR. GERALD LEON, b. Hastings, Mich, Nov. 19, 35; m. 56; c. 3. AGRICULTURAL ECONOMICS. B.S, Mich. State, 57, Ph.D.(agr. econ), 67; M.S, Delaware, 59. Res. assoc. AGR. ECON, DELAWARE, 59-61, ASST. PROF, 63- Agr. Econ. Asn. Resource economics, especially problems related to supply of and demand for outdoor recreation. Publ: Co-auth, Hay drying costs and returns, 60, auth, An economic analysis of alternative methods of harvesting peas and lima beans, 62 & co-auth, A profile of Delaware campers, 68, Univ. Delaware. Address: Dept. of Agriculture & Food Economics, University of Delaware, Newark, Del. 19711.

COLE, GORDON E(LIAS), Geog, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

COLE, JAMES FRED, Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

COLE, DR. JAMES K(IMBROUGH), b. Asheville, N.C, May 24, 35; m. 63. CLINICAL PSYCHOLOGY. B.A, Richmond, 57; M.A, Kentucky, 62, Ph.D. (psychol), 64. Intern clin. psychol, Worcester State Hosp, 63-64; ASST. PROF. PSYCHOL, NEBRASKA, 64- Res. consult, Child Guid. Center, Lincoln, 65-; consult, Gage County Juvenile Court, 66-; Vet. Admin. Hosps, Lincoln & Omaha, 67- AAAS; Psychol. Asn; Soc. Proj. Tech. & Personality Assessment. Clinical psychology personality assessment; psychotherapy research; clinical decision research. Publ: Co-auth, Where the action is, J. Consulting Psychol, 12/66; Further evidence of card stimulus value for children, J. Proj. Tech. & Personality Assessment, 2/67; Family and situation factors related to remainers and terminators of treatment, Psychother: Theory, Res. & Practice, 8/67. Address: Dept. of Psychology, University of Nebraska, Lincoln, Nebr. 68508.

COLE, DR. JAMES LAWRENCE, b. Oberlin, Ohio, June 11, 27; m. 48; c. 2. PSYCHOLOGY. A.B, Oberlin Col, 49; Woodrow Wilson fel. & M.A, Princeton, 51; Nat. Sci. Found. fel. & Ph.D.(psychol), Duke, 64. Instr. philos, Brandeis, 52-55; philos. & soc. studies, N.C. State, 55-61; res. assoc. & lectr, PSYCHOL, Harvard, 64-65; asst. prof, George Washington, 65-66; ASSOC. PROF, N.C. STATE, 66- U.S. Pub. Health Serv. fel, Harvard, 64-65. U.S.N, 45-46. AAAS; Psychol. Asn. Discrimination and generalization; use of mathematical models to describe behavior change; philosophy of science. Publ: Force gradients in stimulus generalization, J. Exp. Anal. Behav, 65; co-auth, Decision theory, the pigeon and the psychophysical function, Psychol. Rev, 67. Address: Dept. of Psychology, North Carolina State University, Raleigh, N.C. 27607.

COLE, DR. JOHNNETTA B, b. Jacksonville, Fla, Oct. 19, 36; m. 60; c. 2. ANTHROPOLOGY. B.A, Oberlin Col, 57; M.A, Northwestern, 59, Ford Found. fel. & Ph.D.(anthrop), 67. Res. assoc. ANTHROP, Northwestern Univ. Econ. Surv. Liberia, W.Africa, 60-62; instr, WASHINGTON STATE, 63-65, collab. 66-67, ASST. PROF, 67- Consult. & lectr, Peace Corps Training Proj, San Francisco State Col, 63-65. Fel. Anthrop. Asn; Int. African Inst. African and Liberian ethnology. Publ: Co-auth, Growth without development, Northwestern, 66. Address: Dept. of Anthropology, Washington State University, Pullman, Wash. 99163.

COLE, PROF. K(ENNETH) C(AREY), b. Highland Park, Ill, Apr. 10, 98; m. 26; c. 2. POLITICAL SCIENCE. Rhodes scholar. & B.Lit, Oxford, 24; Ph.D.(polit. sci), Harvard, 31. Assoc. prof. POLIT. SCI, WASHINGTON (SEATTLE), 31-36, PROF, 36- Vis. prof, Minnesota, 40; Stanford, 44. Chmn. West Coast Aircraft Cmt, Nat. War Labor Bd, 42-44. Public law; political theory. Address: Dept. of Political Science, University of Washington, Seattle, Wash. 98105.

COLE, PROF. L(AWRENCE) E(DWIN), b. Medina, Ohio, 97; m. 21; c. 3. PSYCHOLOGY. A.B, Oberlin Col, 20; A.M, Michigan, 22; Ph.D.(psychol), Columbia, 29. Instr, Berea Acad, 20-21; asst. prof, Oberlin Col, 22-24; instr, Wash. Sq. Col, N.Y. Univ, 25-26; asst. prof. PSYCHOL, OBERLIN COL, 26-29, assoc. prof, 29-32, prof, 32-64, chmn. dept, 55-60; EMER. PROF, 64- U.S.A, 17-19. Fel. Psychol. Asn; Orthopsychiat. Asn. Localization of tactual space; conditioning in human subjects. Publ: General psychology; Human behavior; Understanding the abnormal personality, Chandler Pub, 69. Address: Box 400, Chapel Hill, N.C. 27514.

COLE, DR. LEON MONROE, b. Dallas, Tex, Apr. 4, 33; m. 61; c. 2. CITY PLANNING, TRANSPORTATION. B.S.C.E, Southern Methodist, 55; M.S.E, Washington (Seattle), 61; M.C.P, Harvard, 63, Ph.D.(city & regional planning), 65. Instr. CITY PLANNING, HARVARD, 64-65, ASST. PROF, 65- Dir. prog. anal. & eval, U.S. Dept. Housing & Urban Develop, 67-68. Mem. cmts. community values & urban measurements & info, Hwy. Res. Bd, 67-70. U.S.N, 56-60, Res, Lt. Comdr. Inst. Planners. Planning public investment under conditions of uncertainty; program analysis and quantitative evaluation. Publ: Co-auth. & ed, Tomorrow's transportation, U.S. Govt. Printing Off, 68; co-auth, Transportation and economic development, Brookings Inst, 68; auth, Transportation investment strategies and economic development, Land Econ, 8/68. Address: Dept. of City Planning, Harvard University, Cambridge, Mass. 02138.

COLE, DR. LUELLA (MRS. ROBERT LOWIE), b. Haverhill, Mass, Apr. 1, 93; m. 18, 33. EDUCATIONAL PSYCHOLOGY. A.B, Vassar Col, 16; M.A, Indiana, 20, Ph.D.(ed. psychol), 22. Asst, Indiana, 19-21; from instr. to assoc. prof. ed. psychol, Ohio State, 21-31; prof, Utah, 33; ED. TEXTBOOK WRITER, RINEHART & CO, 33- Intelligence and achievement tests; animal psychology; handwriting. Publ: Psychology of adolescence; History of education; Cats and people. Address: 2521 Benvenue Ave, Berkeley, Calif. 94704.

COLE, DR. MICHAEL, b. Los Angeles, Calif, Apr. 13, 38; m; c. 1. PSYCHOLOGY. B.A, California, Los Angeles, 59; Ph.D.(psychol), Indiana, 62. U.S.A-U.S.S.R. exchange scholar, 62-63; lectr. PSYCHOL, Stanford, 63-64; asst. prof, Yale, 64-66; ASSOC. PROF, CALIFORNIA, IRVINE, 66- Psychol. Asn; Psychonomic Soc. Experimental psychology; learning and culture. Publ: Co-auth, The new mathematics and an old culture, Holt, 67. Address: Division of Social Sciences, University of California, Irvine, Calif. 92664.

COLE, PROF. R(OBERT) TAYLOR, b. Bald Prairie, Tex, Sept. 3, 05. POLITICAL SCIENCE. A.B, Texas, 25, A.M, 27; Ph.D, Harvard, 36. From instr. to assoc. prof, La. State, 26-29, 31-33; instr, Harvard, 30-31, 34-35; from asst. prof. to prof. POLIT. SCI, DUKE, 35-53, JAMES B. DUKE PROF, 53-, PROVOST, 60- Guggenheim fel, 46-47; Fulbright fel, Italy, 52-53. Ed, J. Polit, 48-50. Mem-at-large div. behav. sci, Nat. Acad. Sci, 67-70. Polit. Sci. Asn.(ed, Am. Polit. Sci. Rev, 50-53, pres, 58-59); Am. Acad. Arts & Sci. Comparative government. Address: Dept. of Political Science, Duke University, Durham, N.C. 27706.

COLE, DR. SPURGEON NORTHERN, b. Hartwell, Ga, Feb. 11, 39; m. 61; c. 1. PSYCHOLOGY. A.B, Georgia, 60, M.S, 65, Ph.D.(psychol), 66. Asst. prof. PSYCHOL, W.Ga. Col, 64-66; assoc. prof, East Carolina, 66-67; ASST. PROF, CLEMSON, 67- Resource person in geront, Ga. Continuing Ed. Center, 66-67. Consult, State Bd. Ed, 64-66. Psychol. Asn. Psychopathology;

psychotherapy; testing. Publ: Co-auth, Symbolic meaning of card II, Perceptual & Motor Skills, 24: 66, Extinction of a classically conditioned G.S.R. response as a function of awareness, Behav. Res. & Ther, 5: 331-337 & Semantic generalization under continuous and partial reinforcement schedules, J. Gen. Psychol, (in press). Address: Dept. of Psychology, Clemson University, Clemson, S.C. 29631.

COLE, PROF. WILLIAM EARLE, b. Crandull, Tenn, July 28, 04. SOCIOLOGY. B.S.A, Tennessee, 26; A.M, Cornell, 28, Ph.D, 30. Asst. ed, Cornell, 28-30; asst. prof, TENNESSEE, 30-33, assoc. prof. SOCIOL, 33-36, PROF. & HEAD DEPT, 36- Sr. soc. sci. analyst & chief prog. rev. & anal. staff, Tenn. Valley Authority, 43-47; chmn, Knoxville Metrop. Planning Cmn, 56- Fel. Sociol. Asn. Sociology for schools; recent trends in rural planning. Publ: Co-auth, High school sociology, Social problem: a sociological interpretation, McKay, 65 & Social foundation of education, Am. Book Pub. Co, 68. Address: Dept. of Sociology, University of Tennessee, Knoxville, Tenn. 37916.

COLEAN, MILES L(ANIER), b. Peoria, Ill, Aug. 4, 98; m. 25; c. 1. ECONOMICS. B.Arch, Columbia, 22. Tech. dir, Fed. Housing Admin, 34-38, asst. adminstr, 38-40; dir. housing surv, Twentieth Century Fund, 40-42; v.pres, Starrett Bros. & Eken, 42-44; PRIVATE CONSULT, 44- Chmn. bus. res. adv. coun, Bur. Labor Statist, 53-54; President's Adv. Cmt. Govt. Housing Policies & Progs, 53; building res. adv. bd, Nat. Res. Coun; chmn, Conf. Bus. Economists, 60-61. Fel. AAAS; fel. Inst. Archit; fel. Statist. Asn; Conf. Bus. Econ. Mortgage finance; housing; construction economics. Publ: American Housing; Impact of Government on Real Estate Finance; Renewing Our Cities. Address: 1707 H St. N.W, Washington, D.C. 20006.

COLEGROVE, PROF. KENNETH, b. Waukon, Iowa, Oct. 8, 86. POLITICAL SCIENCE. A.B, Iowa, 09; Ph.D, Harvard, 15; hon. D.Litt, Columbia, 45. Lectr. hist, Mt. Holyoke Col, 13-16; asst. prof. European hist, Syracuse, 16-19; assoc. prof. polit. sci, Northwestern, 19-26, prof, 26-53; Queens Col. (N.Y), 53-54; ed-in-chief, Inst. Fiscal & Polit. Ed, 54-57; PROF. HIST. & POLIT. SCI, C.W. POST COL, LONG ISLAND, 58- Consult, Off. Strategic Servs, 42-46; Gen. MacArthur's Hqs, Japan, 46; U.S. Dept. State, 48; Naval War Col, 60-61. Ed, European Econ. & Polit. Surv, France, 29. Polit. Sci. Asn.(secy-treas, 36-48); Hist. Asn; Acad. Polit. Sci. Comparative government; political theory; international relations. Publ: Democracy versus communism; International control of aviation; American senate and world peace. Address: Butler Hall, 88 Morningside Dr, New York, N.Y. 10027.

COLEMAN, PROF. A(MOSS) LEE, b. Devereux, Ga, Jan. 3, 13; m. 43; c. 2. SOCIOLOGY. B.A, Emory, 37; M.A, North Carolina, 40; Ph.D, Cornell, 50. From asst. prof. to prof. sociol. & rural sociol, KENTUCKY, 49-66, PROF. SOCIOL. & DIR. GRAD STUDY, 66-, from head to chmn. depts. sociol. & rural sociol, 59-66. Soc. Sci. Res. Coun. faculty res. fel, 58-59; participant, vis. scientists prog, Am. Sociol. Asn, 67- Consult, South. Regional Coun, 57-65; mem, Ky. Adv. Cmt, U.S. Cmn. Civil Rights, 62- Managing ed, Rural Sociol, 52-58. U.S.A, 42-45, Sgt. Sociol. Asn; Rural Sociol. Soc.(v.pres, 62-63, pres, 64-65). Rural sociology; diffusion of new technology; minority groups; race and culture. Publ: Co-auth, Group influences and agricultural innovations: some tentative findings and hypotheses, Am. J. Sociol; 5/56; auth, The rural-urban variable in race relations, Rural Sociol, 12/65; Race relations, and developmental change, Soc. Forces, 9/67. Address: Dept. of Sociology, University of Kentucky, Lexington, Ky. 40506.

COLEMAN, DR. BRUCE P(UMPHREY), b. Pittsburgh, Pa, June 8, 31; m. 56; c. 2. BUSINESS ADMINISTRATION, ECONOMICS. B.S, West Virginia, 54; M.B.A, Indiana, 58, D.B.A,(mgt), 67. Admin. asst, Chesapeake & Potomac Tel. Co. W.Va, 54-55; instr. MGT, Kans. State Col. Pittsburg, 58-60, asst. prof, 60-62; teaching assoc, Indiana Univ, 62-65; ASST. PROF, MICH. STATE, 65- U.S.A.F, 55-57, Res, 57-, Capt. Acad. Mgt. Manpower and long-range corporate planning; organization theory and decision strategy; administrative theory. Address: 601 Spartan Ave, East Lansing, Mich. 48823.

COLEMAN, DR. EDMUND B(ENEDICT), JR, b. Columbia, S.C, Mar. 29, 26; m. 53; c. 3. PSYCHOLOGY, LINGUISTICS. B.S, South Carolina, 58; Gilman fel, Hopkins, 59-60, Nat. Sci. Found. fel, 60-61, U.S. Pub. Health Serv. fel, M.A. & Ph.D.(psychol), 61. Trainee, U.S. Pub. Health Serv, 58-59; res. psychologist, HumRRO, 61-62; assoc. prof. PSYCHOL, Sul Ross State Col, 62-64; New Mexico State, 64-65; PROF. & CHMN. DEPT, TEXAS, EL PASO, 65- Psychol. Asn. Readability and comprehensibility of verbal material at the multi-sentence level; pre-school reading. Publ: Extra-experimental interference demonstrated by serial reconstructions, J. Exp. Psychol; Improving comprehensibility by shortening sentences & co-auth, Comparison of several styles of typography in English, J. Appl. Psychol. Address: Dept. of Psychology, University of Texas at El Paso, El Paso, Tex. 79999.

COLEMAN, PROF. EDWARD P, Indust. Statist, see 11th ed, Phys. & Biol. Vols.

COLEMAN, DR. GEORGE W, b. Adams, Nebr, June 11, 12; m. 43. ECONOMICS. A.B, Arizona, 34; M.A, Washington (St. Louis), 35, Ph.D, 39. Economist, Mercantile Trust Co, St. Louis, 39-66; DEP. DIR. DEPT. ECON. & RES, AM. BANKERS ASN, 66- Econ. Asn; Statist. Asn. Monetary theory; banking. Address: 100 E. Palisades Ave, Englewood, N.J. 07631.

COLEMAN, DEAN JACK WILBUR, b. Wamego, Kans, Apr. 28, 23; m. 46; c. 2. ECONOMICS, ACCOUNTING. B.S, Kansas, 47; M.B.A, Michigan, 52; D.B.A, Indiana, 58. Asst. dean grad. sch. bus, U.S. Air Force Inst. Tech, 58-60, head systs. mgt. dept, eng. col, 63-65; head procurement policy, hq. U.S. Air Force Logistics Command, Wright-Patterson Air Force Base, Ohio, 60-63; head prog. costing, Hq. U.S. Air Force, Pentagon, 65-66; prof. acct. & finance, head dept. acct. & acting head dept. finance, Texas A&M, 66-68; DEAN SCH. BUS. ADMIN. & ECON, CALIF. STATE COL. FULLERTON, 68- Cost & mgt. consult, Air Force Mgt. Consult. Team for Defense Indust, 59-63. Chmn, Air Force Defense-Indust. Cmt. Competitive Reprocurement of Spares, 61-63. U.S.A.F, 45-66, Col. Am. Acct. Asn; Econ. Asn; Financial Exec. Inst. Cost behavioral analysis and simulation; management information systems and decision theory. Publ: Efficiency and working capital funds, Fed. Acct, 3/61; Incentive contracting, Air Univ. Rev, 12/64; Working capital funds—theory and practice, Munic. Finance, 2/68. Address: School of Business Administration & Economics, California State College at Fullerton, Fullerton, Calif. 92631.

COLEMAN, PROF. JAMES COVINGTON, b. Salem, N.H, Oct. 19, 14. CLINICAL PSYCHOLOGY. B.A, California, Los Angeles, 38, Ph.D, 42. Instr. psychol, California, Los Angeles, 42-45; asst. prof, Kansas, 45-47; New Mexico, 47-48; Southern California, 48-50; assoc. prof. PSYCHOL, 65, PROF, 65-, DIR. CLIN. SCH, CALIFORNIA, LOS ANGELES, 50- Consult, Adams Schs; Calif. Test Bur; elem. div. Scott, Foresman & Co. Civilian with U.S.A, 42-46. Psychol. Asn; Acad. Polit. & Soc. Sci. Personality dynamics; abnormal psychology; learning disorders. Publ: Abnormal psychology and modern life; Deep sea adventure series; Personality dynamics and effective behavior. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

COLEMAN, DR. JAMES K(ARL), b. Greenwood, S.C, May 15, 97. POLITICAL SCIENCE. B.S, The Citadel, 19; Peabody Col, 23-24; A.M, George Washington, 27; Ph.D, Columbia, 35. Prof. polit. sci, The Citadel, 22-63; RETIRED. Chmn. task force, S.C. Fiscal Surv. Cmn, 55. Polit. Sci. Asn. American government; state administration in South Carolina; cost of law administration in South Carolina. Address: 722 James Dr, Lawton Bluff, Charleston, S.C. 29407.

COLEMAN, PROF. JAMES S(AMUEL), b. Bedford, Ind, May 12, 26; m. 49; c. 2. SOCIOLOGY. B.S, Purdue, 49; Ph.D, Columbia, 55. Res. assoc. sociol, bur. appl. soc. res, Columbia, 53-55; fel, Center Adv. Study Behav. Scis, 55-56; asst. prof. SOCIOL, Chicago, 56-59; assoc. prof, HOPKINS, 59-61, PROF, 61- U.S.N, 44-46. Sociol. Asn. Mathematical sociology; processes of social conflict; diffusion processes; collective decisions; educational sociology. Publ: Community conflict; Adolescent society; Introduction to mathematical sociology, Macmillan, 64. Address: Dept. of Social Relations, Johns Hopkins University, Baltimore, Md. 21218.

COLEMAN, PROF. J(AMES) S(MOOT), b. Provo, Utah, Feb. 4, 19; m. 65; c. 2. POLITICAL SCIENCE. A.B, Brigham Young, 47; M.A, Harvard, 48, Fulbright scholar, 51-52, Ph.D.(govt), 53. Instr. polit. sci, CALIFORNIA, LOS ANGELES, 53-55, asst. prof, 55-58, assoc. prof, 58-60, PROF. POLIT. SCI, 60-, dir. African Studies Center, 60-65. Fel, Center Adv. Study Behav. Sci, 63-64; head dept. polit. sci, Makerere Univ. Col, Uganda, 65-66; dir. polit. sci. res. prog, E.African Inst, Kampala, Uganda, 65-67; dir, Inst. Develop. Studies, Univ. Col, Nairobi, Kenya, 67-69; assoc. dir. & rep. E.Africa, Rockefeller Found, New York, 67-69. Mem. bd. dirs. & cmt. comp. polit, Soc. Sci. Res. Coun, 55-67, bd. dirs, 62-64; adv. cmt. Africa, Nat. Acad. Sci, 62-64; v.pres, Int. Cong. Africanists, 62-67; mem. exec. coun, Int. African Inst, 66-68. Woodrow Wilson Found. award, Am. Polit. Sci. Asn, 59. U.S.A, 41-46, Lt. Col. Fel. Am. Acad. Arts & Sci; African Studies Asn. (pres, 63-64). Comparative government; African politics. Publ: Nigeria: background to nationalism; co-ed. & co-auth, Politics of the developing areas; ed. & co-auth, Education and political development, Princeton Univ, 65. Address: Rockefeller Foundation, 111 W. 50th St, New York, N.Y. 10020.

COLEMAN, DR. JOHN H(ARVARD), b. Rochester, N.Y, May 16, 97; m. 22; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Kalamazoo Col, 22; Ph.D, Columbia, 32. Teacher & prin, pub. schs, Mich, N.Y, Mass. & Conn, 22-36; prof. ed, Miami (Ohio), 36-47; MANAGING DIR, EXEC. ANAL. CORP, 47- Asst. to training dir, Sperry Gyroscope Co, 42-47. U.S.A, 17-19. AAAS; fel. Psychol. Asn. Personality; measurement and evaluation. Publ: Co-auth, Reading for meaning—grades 4-12, Lippincott, 40 & rev. eds, 45, 55, 62, 65. Address: Executive Analysis Corp, 76 Beaver St, New York, N.Y. 10005.

COLEMAN, PRES. JOHN R(OYSTON), b. Copper Cliff, Ont, June 24, 21; nat; div; c. 5. ECONOMICS. B.A, Toronto, 43; M.A, Chicago, 49, Ph.D.(econ), 50; hon. LL.D, Beaver Col, 63, Pennsylvania, 68. From instr. to asst. prof. indust. rels, Mass. Inst. Tech, 49-55; assoc. prof. econ, Carnegie Inst. Tech, 55-61, prof. & head dept, 61-63, prof. econ. & dean humanities & soc. sci, 63-65; assoc. dir. prog. econ. develop. & admin, Ford Found, 65-66, prog. officer in charge of soc. develop, 67; PRES, HAVERFORD COL, 67- Nat. teacher, Col. of Air, The Am. Econ, 62-63. Consult, Ford Found, India, 60-61. R.C.N, 43-45, Lt. Econ. Asn; Indust. Rels. Res. Asn. Collective bargaining; public policy; urban economics and poverty. Publ: Goals and strategy in collective bargaining, Harper, 51; The American economy, Basic Books, 67; Comparative economic systems, Holt, 68. Address: Haverford College, Haverford, Pa. 19041.

COLEMAN, DR. JULES V(ICTOR), Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

COLEMAN, DR. LEONARD, b. Malden, Mass, May 3, 25; m. 50; c. 2. CLINICAL PSYCHOLOGY. B.S, Western Reserve, 48; M.A, Kent State, 49; Ph.D. (clin. psychol), Mich. State, 55. CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, 55- U.S.A, 43-46. Psychol. Asn. Address: 166 N. Pearl St, Canandaigua, N.Y. 14424.

COLEMAN, PROF. RAYMOND W, b. Mt. Brydges, Ont, Mar. 3, 01; m. 27; c. 2. ECONOMICS. B.B.A, Washington (Seattle), 23, fel, 25-26, M.B.A, 26; Ph.D.(econ), Pittsburgh, 35. Instr. acct. & finance, Ore. State Col, 26-27; acct, Michigan, 27-28; econ. & acct, Col. City Detroit, 28-29; from asst. prof. to assoc. prof. mgt. eng, Carnegie Inst. Tech, 29-42; chief exten. serv, U.S. Dept. Commerce, 46-48; prof. econ. & bus. admin. & head dept, West Virginia, 48-52, dir. bur. bus. res, 48-56, prof. econ. & mgt. & dean col. commerce, 52-63; dean col. bus. admin, ILLINOIS, CHICAGO, 63-66, PROF. ECON. MGT, 66- Ford Found. study grant, 61-62. Consult, U.S. Dept. Commerce, 49- U.S.A.A.F, 42-46, Lt. Col. Econ. Asn; Statist. Asn; Am. Acct. Asn. Finance; accounting. Publ: Elements of accounting; Bureaus of business and economic research: a survey of objectives; Our changing American economy, Indiana Univ, 63. Address: College of Business Administration, University of Illinois, Chicago Circle, Chicago, Ill. 60680.

COLEMAN, PROF. THOMAS W(ILLIAM), JR, b. Detroit, Mich, Feb. 12, 19; m. 64; c. 3. SPECIAL EDUCATION, EDUCATIONAL PSYCHOLOGY. A.B, Michigan, 45, Ph.D.(ed. psychol), 60; M.Ed, Wayne State, 49. Dir. training handicapped children, Coleman Sch, 41-42, exec. dir, 46-50; Detroit Cerebral Palsy Clin, 50-52; PROF. EMOTIONAL DISTURBANCE, WAYNE STATE, 52- Psychotherapist, Midwest Psychiat. Clin, 59- U.S.A.A.F, 42-45, Capt. Fel. Asn. Ment. Deficiency; Psychol. Asn; Coun. Except. Children. Mental retardation; emotional disturbance. Address: College of Education, Wayne State University, Detroit, Mich. 48202.

COLEMAN, DR. WILLIAM, Hist. of Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COLEMAN, DR. WILLIAM, b. Utica, N.Y, May 30, 21; m. 43; c. 3. PSYCHOLOGY. B.A, Ohio State, 42, M.A, 46, Ph.D.(psychol), 49. Asst. psychol, Ohio State, 46; instr, Tennessee, 47-49, asst. prof, 49-51, dir. testing & guid, 51-56; soc. scientist, Rand Corp, 56-58; human factors scientist, Syst. Develop. Corp, 58-60; dir. psychol. serv, Ward J. Jenssen, Inc, 60-61; v.pres, Trans-Pac. Mgt. Serv, 61-63; PRES, COLEMAN & ASSOCS, 63- Consult, State Dept. Ed, Tenn, 51-56; Houghton-Mifflin Co, 57-; Soc. Security Admin, 65-; U.S. Employ. Serv, 65- U.S.A, 42-45. Fel. Psychol. Asn; Personnel & Guid. Asn; Nat. Employ. Counsr. Asn. Educational and psychological measurement; industrial psychology; guidance and counseling techniques. Publ: Co-auth, Clerical skills inventory & Life goals inventory; co-auth, Comparison of Davis-Eells and Kulhmann-Finch scores of children from high and low socio-economic status, J. Ed. Psychol. Address: 349 Euclid St, Santa Monica, Calif. 90402.

COLES, PROF. FLOURNOY ARTHUR, JR, b. Trenton, N.J, Apr. 25, 15; m. 66. ECONOMICS, SYSTEMS ANALYSIS. B.A, Xavier (La), 41; M.A, Pennsylvania, 42, Ph.D.(econ), 49. Instr. econ, Lincoln, 46-47; prof, Fla. Agr. & Mech, 48-50; grad. prof. bus, Texas Southern, 50-51; economist & prog. officer, Agency Int. Develop, 51-63; tech. asst. to mgt. & economist, adv. systs. div, Syst. Develop. Corp, 63-66; economist, Technomics, Inc, 66; assoc. prof. econ, FISK, 66-67, PROF. ECON. & ASSOC. DIR. RACE & POVERTY RES, 67- Consult, Syst. Develop. Corp, 66; Lear Sigler, 67; Ford Found. & Res. Group, 68. U.S.A, 42-46, 1st Lt. Econ. Asn. International and development economics; manpower development; socio-economic research, including analysis and forecasting; systems and operations analyses of socio-economic problems. Address: Dept. of Economics, Fisk University, Nashville, Tenn. 37203.

COLES, PROF. ROSWELL S(TRONG), b. Middletown, Conn, June 23, 04; m. 30; c. 2. SOCIOLOGY. B.A, Yale, 26; M.A, Columbia, 32, Ed.D, 53. Teacher, Staten Island Acad, 29-39; curator Staten Island Inst. Arts & Sci, 39-41, dir, 41-51; lectr. SOCIOL, WAGNER COL, 49-51, PROF, 51-, DIR. PLACEMENT & FINANCIAL AID, 59-, DEAN COL. SPEC. SERV, 67-, head dept. sociol, 51-59. AAAS; Sociol. Asn. Community organization; old age. Address: College for Special Services, Wagner College, Staten Island, N.Y. 10301.

COLESON, DR. EDWARD P(AUL), b. Dundee, Iowa, Aug. 26, 13; m; c. 3. SOCIAL SCIENCE. B.S, Marion Col, 41; M.A, Michigan, 51, Ph.D.(geog. & ed), 56. Prof. geog. & head dept, Huntington Col, 52-61; PROF. SOC. SCI, SPRING ARBOR COL, 61- Vis. prof, Taylor, 59-60; summer, Barrington Col, 60. Am. Sci. Affiliation. Economics and economic development; economic development of Sierra Leone, West Africa; economic development of backward areas of world. Address: Spring Arbor College, Spring Arbor, Mich. 49283.

COLFAX, DR. J(OHN) DAVID, b. Pittsburgh, Pa, May 13, 36; m. 59; c. 2. SOCIOLOGY. B.S, Pa. State, 58; M.A, Pittsburgh, 60; London Sch. Econ, 60-61; Ph.D.(sociol), Chicago, 64. ASST. PROF. SOCIOL, CONNECTICUT, 63-, CO-DIR. COMMUN. STRUCT. RES. PROJ, 65- AAAS; Sociol. Asn; Polit. Sci. Asn. Political sociology; community research; survey design and analysis; majority-minority group relations. Publ: The fate of due process in a time of crisis, In: The Kennedy assassination and the American public, Stanford, 65; The unions respond to compulsory arbitration: organizational correlates of protest and acquiescence, Indust. & Labor Rels. Rev, 10/66. Address: Dept. of Sociology, University of Connecticut, Storrs, Conn. 06268.

COLGAN, PROF. C(ARROLL) M(ONROE), b. Jacksonville, Fla, May 12, 25; m. 46; 57; c. 2. PSYCHOLOGY. U.S. Pub. Health Serv. fel, Moosehaven Res. Lab. Geront, 51-52, Florida, 52-54, Ph.D.(psychol), 54. Res. psychologist, Army Med. Res. Lab, Ky, 54-55; lectr. psychol, Louisville, 55; asst. prof, Ala. Polytech, 55-57; Lebanon Valley Col, 57-60; res. scientist, HumRRO, George Washington, 60-62; ASST. PROF. PSYCHOL, Rollins Col, 62-63; SOUTH CAROLINA, 63- Consult, res. proj, U.S. Dept. Air Force, 56-57. U.S.A.A.F, 43-46. AAAS; Psychol. Asn. Vision; thinking; psychophysiological theory. Publ: The relation between critical flicker frequency and several psychological variables; Critical flicker frequency, age and intelligence & The effect of observational technique on brightness-enhancement, 9/65, Am. J. Psychol. Address: 209 Barmount Dr, Columbia, S.C. 29210.

COLGAN, PROF. EDWARD J(OSEPH), b. Boston, Mass, May 28, 85; m. 06, 33; c. 1. EDUCATIONAL PSYCHOLOGY. A.A, Harvard, 17, A.M, 20, Univ. scholar, 20-21, Lyons, 19; Paris, 21-22; Sc.D, Maine, 58; L.H.D, Colby Col, 61. Prin, high schs, Ark, 12-14; prof. PSYCHOL. & ED, Alfred, 22-24, prof. & head dept, COLBY COL, 24-55, EMER. PROF, 55- Lectr, exten. div, Univ. Maine, 55-61. U.S.A, 17-19. AAAS; Psychol. Asn. Educational tests and measures; psychology of learning; clinical psychology and hypnotherapy. Address: 17 Church St, Ware, Mass. 01082.

COLGIN, DR. RUSSELL WEYMOUNT, b. Mich, May 10, 25; m. 46; c. 3. PSYCHOLOGY. B.A, Lake Forest Col, 49; M.A, Northwestern, 50, Ph.D.(clin. psychol), 53. Clin. psychologist, Vet. Admin. Hosp, Downey, Ill, 50-51, Hines, 52-53, Vet. Admin. Clin, Chicago, 51-52; instr, Lake Forest Col, 51-52; N.Park Col, 51-53; clin. psychologist, Los Angeles Psychol. Serv. Center, 53-61; private practice, 61-; consult, Midtown Sch, 62-67; chmn. screen cmt, Big Bros. Greater Los Angeles, 66-67. U.S.N, 43-45. Psychol. Asn. Psychotherapy; psychopathology; normal emotional behavior. Publ: Forms, norms and reliability of the MMPI test, J. Consult. Psychol; Fears, Hygiea; Attitudes, Today's Health. Address: 155 N. La Peer Dr, Los Angeles, Calif. 90048.

COLIE, DR. STUART EDGAR, b. New York, N.Y, Feb. 21, 22; m. 54. POLITICAL SCIENCE. B.A, Yale, 49; Heidelberg, 49-50; M.A, Princeton, 58, Ph.D.(polit), 63. Res. analyst pub. opinion surv, reactions anal. staff, off. pub. affairs, U.S. High Cmn, Germany, 50-52; instr. govt, Bowdoin Col, 55-58, asst. prof, 58-61; polit. studies, American Univ, Beirut, 61-67; ASSOC. PROF. POLIT. SCI, MARSHALL, 67- U.S.A.A.F, 42-46, Sgt. Polit. Sci. Asn. Comparative political systems: regional emphasis on United States, Western Europe, Soviet bloc, Middle East; institutional emphasis on interaction of parties and groups with governmental organs, especially executive-legislative. Publ: Co-auth, Soviet foreign policy process & British foreign policy process, In: Studies in international politics, Vol. I, 66 & Economic factors in British foreign policy & Economic factors in U.S. foreign policy, Vol. II, 67, Civil Serv. Coun, Lebanese Repub; auth, Confessional politics, Muslim World, 4/66. Address: 938 13th Ave, Huntington, W.Va. 25701.

COLIN, DR. DAVID H(AROLD), Econ, see 10th ed, Soc. & Behav. Vols.

COLLADO, DR. EMILIO G(ABRIEL), b. Cranford, N.J, Dec. 20, 10; m. 32; c. 2. ECONOMICS. S.B, Mass. Inst. Tech, 31; A.M, Harvard, 34. Ph.D, 36. Econ. analyst, U.S. Dept. Treas, 34-36; economist, Fed. Reserve Bank, N.Y, 36-38; asst. chief, Div. Am. Repub, U.S. Dept. State, 38-40, spec. asst. to undersecy. state, 41-44, chief div. financial & monetary affairs, 44-45, dir. off. financial & develop. policy & dep. to undersecy. econ. affairs, 45-46; U.S. exec. dir, Int. Bank Reconstruct. & Develop, 46-47; mem. staff, STANDARD OIL CO.(N.J), 47-54, treas, 54-60, DIR, 60-, EXEC.V.PRES, 66-, v.pres, 62-66. Econ. Asn. International finance and economics. Publ: Private investment and economic development & Economic development through private enterprize, 7/63, For. Affairs. Address: Standard Oil Co. (New Jersey), 30 Rockefeller Plaza, New York, N.Y. 10020.

COLLAND, FRED M(AX), Statist, see 10th ed, Soc. & Behav. Vols.

COLLAZZO, DR. CHARLES JOSEPH, JR, b. Woburn, Mass, Aug. 22, 21; m. 48; c. 2. MARKETING, ECONOMICS. B.A, Northeastern, 43; M.C.S, Boston, 48, M.A, 55; fel, Columbia, 60-61, Ph.D.(bus. econ), 63. Instr. mkt, Fisher Jr. Col, 48-50; asst. supt, Gilchrist Dept. Store, Mass, 51-53; mkt. res. analyst, Gillette Co, 53-54; asst. prof. MKT, Clark, 54-55; Hartford, 55-60; ASSOC. PROF, NORTHEASTERN, 60- Qm.C, U.S.A, 43-46, S/Sgt. Mkt. Asn; Acad. Polit. & Soc. Sci. Consumer needs and attitudes; marketing standards. Publ: Consumer frustrations in shopping, Nat. Retail Merchants Asn, 64; Do consumers really like to shop?, Northeast. Bus. Topics, 4/64; Effects of income upon shopping attitudes, J. Retailing, spring 66. Address: Dept. of Marketing, Northeastern University, Boston, Mass. 02115.

COLLERY, PROF. ARNOLD, b. Glen Cove, N.Y, Feb. 1, 27; m. 57; c. 2. ECONOMICS. B.A, Buffalo, 50, fel, 50-51; Cuyler Jr. fel, Earhart fel. & Ph.D.(econ), Princeton, 58. Instr. ECON, AMHERST COL, 53-56, asst. prof, 56-59, assoc. prof, 59-64, PROF, 64- Nat. Sci. Found. fel, 63-64; vis. prof, Mass. Inst. Tech, summer, 65; vis. lectr, Smith Col, 66. U.S.A, 45-47. Econ. Asn. Monetary and income theory; theory of international trade. Publ: National income and employment analysis, John Wiley, 66; Note on the saving-wealth relation and the rate of interest, J. Polit. Econ; On money, wealth and economic theory, J. Finance, 12/67. Address: Dept. of Economics, Amherst College, Amherst, Mass. 01002.

COLLET, DR. GRACE M(ARGARET), b. St. Louis, Mo, Sept. 21, 99. CLINICAL PSYCHOLOGY. B.Sc, Ohio State, 29, Ph.D.(clin. psychol), 53; M.A, Michigan, 39. CHIEF CLIN. PSYCHOLOGIST, HARDING HOSP, 45- Psychol. Asn. Psychopathology of adults and children. Address: Harding Hospital, Worthington, Ohio 43085.

COLLEY, DR. WILLIAM HENRY, b. Pleasant Valley, Pa, Apr. 21, 17; m. 46; c. 5. CLINICAL & COUNSELING PSYCHOLOGY. A.B, Allegheny Col, 38; M.A, Iowa, 39; Ph.D.(psychol), Washington (Seattle), 51. Instr. speech & ed, Olivet Col, 39-40; psychol, Boise Jr. Col, 40-41; traffic supvr, Bell Tel. Co, Pa, 41-42; instr. aircraft trades & foreman, Willow Run Bomber Plant, Ford Motor Co, 42-43; assoc. voc. adv, Vet. Admin. Sub-Regional Off, Erie, Pa, 46-47; Vet. Admin. voc. appraiser, Pa. State Col, 47; psychol. trainee, Vet. Admin. Regional Off, Seattle, Wash. & Vet. Admin. Hosp, American Lake, 47-51; clin. psychologist, Vet. Admin. Hosp, Seattle, 51-53; chief clin. psychol, Vet. Admin. Regional Off, Huntington, W.Va, 53-55; chief psychol. training unit, VET. ADMIN. HOSP, MARION, IND, 55-57, chief clin. psychol. serv, 57, CHIEF PSYCHOL. SERV, 57- Clin. instr, sch. med, Washington, (Seattle), 52-53. Consult. psychologist, Grant County Ment. Health Clin, 59- U.S.A, 43-46, Sgt. Psychol. Asn. Personality variables in psychosomatic diseases; critical fusion frequency as a measure of acuity in sense modalities as related to psychogenic and neurogenic pathology. Publ: Co-auth, Relationship between frequency and duration of moments of stuttering, J. Speech Disorders, 45; Temporal acuity of vision, audition, and touch in psychogenic and neurogenic pathology, J. Consulting Psychol, 55. Address: 1914 Brandon Ave, Marion, Ind. 46952.

COLLIER, DR. DONALD, b. Sparkill, N.Y, May 1, 11; m. 39; c. 2. ANTHROPOLOGY. A.B, California, 33; fel, Chicago, 34-35, 38-39, Ph.D.(anthrop), 54; Inst. Andean Res. fel, Univ. San Marcos, 37. Mem. exped. to S.Am, soil conserv. serv, U.S. Dept. Agr, 36, co-dir, Columbia Basin archaeol. surv, State Col. Wash. & Washington (Seattle), 40; instr. anthrop, State Col. Wash, 40-41; asst. curator S.Am. ethnol. & archaeol, FIELD MUS. NATURAL HIST, 41-43, curator, 43-64, CHIEF CURATOR ANTHROP, 64- Field supvr. Ecuadorean reconnaissance, Latin Am. archaeol. surv, Inst. Andean Res, 41-42; lectr, Chicago, 49- Rev. ed, Am. Anthrop, 49; Am. Antiq, 58-62. Mem. cmt. control. soc. data, Soc. Sci. Res. Coun, 41-43; Am. Anthrop. Asn. rep, Nat. Res. Coun, 49-51; chmn, Inst. Andean Res, 56-57, pres, 56, 57. Mem, exped, Peru, 37, 46, 56; Ecuador, 41-42. Fel. Anthrop. Asn; Soc. Am. Archaeol. Archaeology of North America; Middle American

and Andean archaeology; South American ethnology. Publ: Co-auth, Indians before Columbus; Cultural chronology and change in the Viru Valley, Peru; Indian art of the Americas. Address: Field Museum of Natural History, Roosevelt Rd. & Lake Shore Dr, Chicago, Ill. 60605.

COLLIER, PROF. GEORGE H(ENRY), b. Minneapolis, Minn, Jan. 3, 21; m. 52; c. 3. PSYCHOLOGY. B.A, Minnesota, 46, M.A, 47; Ph.D, Indiana, 51. Instr. PSYCHOL, Northwestern, 50-51; asst. prof, Duke, 51-55; Missouri, 55-60, assoc. prof, 60-62; PROF, RUTGERS, 62- U.S.A, 43-46. AAAS; Psychol. Asn; N.Y. Acad. Sci. Psychophysics; learning. Publ: Loci of reinforcement, J. Exp. Psychol; co-auth, Defense of water balance in rats: behavioral and physiological responses to depletion & Instrumental performance as a function of the energy content of the diet, J. Comp. & Physiol. Psychol, 67. Address: Dept. of Psychology, Rutgers, The State University, 39 Easton Ave, New Brunswick, N.J. 08903.

COLLIER, DR. G(ERALD) LOYD, b. Farmersville, Tex, Aug. 20, 28; m. 52; c. 2. GEOGRAPHY. B.A, Southern Methodist, 52; M.A, Nebraska, 54, Ph.D. (geog), 64. Intel. officer, U.S. Govt, 56-58; asst. prof. GEOG, Southern Mississippi, 58-60, assoc. prof, 60-64; asst. prof, STEPHEN F. AUSTIN STATE COL, 64-65, ASSOC. PROF, 65-, HEAD DEPT, 67- AAAS; Am. Geog. Soc; Asn. Am. Geog. Economic, regional and urban geography. Publ: Survey of Mississippi as a location for a chemical industry, Miss. Agr. & Indust. Bd. Address: Dept. of Geography, Stephen F. Austin State College, Nacogdoches, Tex. 75961.

COLLIER, PROF. JAMES E(LI), b. Mt. Sharon, Ky, Jan. 17, 13; m. 36; c. 2. GEOGRAPHY. B.S, West. Ky. State Teachers Col, 36; M.A, Cincinnati, 38; Missouri, 42-43; Ph.D.(geog), Nebraska, 51. Teacher, high sch, Ky, 38-41; instr. geog, Henderson State Teachers Col, 41-42; Missouri, 42-45; Nebraska, 45-46; asst. prof. geog. & geol, Fresno State Col, 46-47; GEOG, Missouri, Columbia, 47-52, assoc. prof, 52-64, chmn. dept, 50-56; PROF, SOUTHERN ILLINOIS, EDWARDSVILLE, 64- Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic geography. Publ: Manufacturing in economy in Missouri, Bus. & Econ. Rev; Distribution of manufacturing in Missouri, Bus. & Govt. Rev, 5-6/63; Trends in manufacturing in Missouri, Res. Center, Univ. Missouri, 7/65. Address: Dept. of Geography, Southern Illinois University, Edwardsville, Ill. 62025.

COLLIER, JOHN, Sociol, Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 68.

COLLIER, PROF. JUANITA, b. Atlanta, Ga, Jan. 5, 31. EDUCATIONAL & CLINICAL PSYCHOLOGY. A.B, Spelman Col, 51; M.A, Atlanta, 52; Ph.D. (ed. & clin. psychol), Chicago, 56. Instr. psychol, Spelman Col, 52-53; asst. prof. ED. & CLIN. PSYCHOL, WAYNE STATE, 57-63, assoc. prof, 63-67, PROF, 67- Instr, Atlanta, summer, 64. Consult. summer prog, President's Cmn, 67; chmn. curriculum & extracurricular cmt, Detroit High Sch. Study Cmn, 66. Psychol. Asn; Ed. Res. Asn. Personality dynamics and cognitive development; achievement patterns and cultural affiliations; factors related to cultural disadvantage and adjustment; creativity and giftedness. Address: Wayne State University, 337 College of Education, Detroit, Mich. 48202.

COLLIER, DR. MARY JEFFERY, b. Paris, Ont, Apr. 10, 20; m. 47, 51. PSYCHOLOGY. B.A, Queen's (Ont), 42; Austin fel, Radcliffe Col, 42-43, A.M, 43; Ph.D.(psychol), Minnesota, 46. Clin. asst, univ. hosp, Minnesota, 44-45, instr. psychol, univ, 45-46; asst. prof, Macalester Col, 46-47; instr, Indiana, 47-48, asst. prof, 48-54; res. assoc, col. med, Illinois, 54-55; U.S. Pub. Health Serv. fel, Michael Reese Hosp, 55-56; asst. prof. PSYCHOL, La. State, 56-60; assoc. prof, Western Ontario, 60-61; from assoc. prof. to PROF, KALAMAZOO COL, 61- Fund Adv. Ed. faculty fel, Chicago, 53-54. Psychol. Asn. Child, personality and clinical psychology. Address: Dept. of Psychology, Kalamazoo College, Kalamazoo, Mich. 49001.

COLLIER, DR. REX M(ADISON), b. Springport, Mich, Sept. 26, 04; m; c. 2. PSYCHOLOGY. B.A, Iowa, 27; M.A, Northwestern, 29, Ph.D.(psychol), 34. Clin. psychologist & instr. neurol, med. sch, Northwestern, 35-37; asst. prof. psychol, Vermont, 37-42; sr. counsr, New Haven Voc. Counseling Serv, Conn, 46-47; assoc. prof. & coordinator grad. clin. psychol. training, Illinois, 47-53; chief clin. psychol. serv, Vet. Admin. Hosp, Jefferson Barracks, Mo, 53-66; PROF. PSYCHOL, IDAHO, 67- Dipl, Am. Bd. Exam. Clin. Psychol. U.S.A, 42-46, Capt. AAAS; fel. Psychol. Asn. Physiology; psychotherapy; personality theory. Publ: Consciousness as a regulatory field: a theory of psychotherapy, J. Abnorm. & Soc. Psychol; Role of affect in behavior, J. Individual Psychol; A biologically derived basic value, J. Humanistic Psychol. Address: Dept. of Psychology, University of Idaho, Moscow, Idaho 83843.

COLLIER, DEAN ROBERT P(ERCY), b. Pendleton, Ore, July 18, 20; m. 43; c. 3. ECONOMICS. B.A, Reed Col, 42; Ph.D, Stanford, 55. Asst. econ. & acct, Stanford, 49-51; res. asst, Rand Corp, 51; asst. prof. econ, Washington (Seattle), 51-52; Occidental Col, 52-57, assoc. prof, 57-58; PROF, UTAH STATE, 58-, DEAN COL. BUS. & SOC. SCI, 59- Coordinator, res. coun, Southern California, 52-53, 55-56, faculty adv, 53-54; visitor, faculty econ. & politics, Cambridge, 67-68. Summers, chief party, indust. develop. team, Agency Int. Develop, Brazil, 65, Bur. Indian Affairs-Univ. Utah consult. to reservation Indians of Mont, 66. U.S.N.R, 42-46. Econ. Asn. National and regional income; tax incidence and effects. Publ: Some empirical evidence of tax incidence, Nat. Tax J; Cost plus pricing and tax incidence & Effect of a reduction in defense expenditures on Los Angeles, Proc. West. Econ. Asn. Address: College of Business & Social Science, Utah State University, Logan, Utah 84321.

COLLINS, DR. BARRY EMERSON, b. Raleigh, N.C, June 2, 37; m. 64; c. 1. PSYCHOLOGY. B.S, Northwestern, 59, M.A, 60, Ph.D.(soc. psychol), 63. Instr. PSYCHOL, Northwestern, 62-63; asst. prof, Yale, 63-66; CALIFORNIA, LOS ANGELES, 66-68, ASSOC. PROF, 68- Attitude change; small groups; research methodology. Publ: Co-auth, A social psychology of group processes for decision-making, 64 & Attitude change: a critical analysis of theory and data, 69, Wiley. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

COLLINS, DR. CHARLES W(ILLIAM), Psychother, see 10th ed, Soc. & Behav. Vols.

COLLINS, PROF. ERNEST MONROE, b. U.S. Sept. 6, 14; m. 38; c. 2. GOVERNMENT. A.B, Transylvania Col, 37; M.A, Kentucky, 40, Ph.D, 50. Instr. GOVT, Kentucky, 45-46; OHIO, 46-49, asst. prof, 49-54, ASSOC. PROF, 55-, chmn. dept, 50-57. Polit. Sci. Asn. Publ: Cincinnati Negroes and presidential politics, J. Negro Hist; Integration in public colleges of the south, J. Higher Ed; Qualities desirable in a mayor, Ohio Cities & Villages. Address: Dept. of Goverment, Ohio University, Athens, Ohio 45701.

COLLINS, DR. GARY R(OSS), b. Hamilton, Ont, Oct. 22, 34; m. 64; c. 1. PSYCHOLOGY. B.A, McMaster, 56; M.A, Toronto, 58; Ph.D, Purdue, 63. Asst. prof. psychol, Bethel Col.(Minn), 64-66, assoc. prof. & chmn. dept, 66-68; PROF. PASTORAL PSYCHOL. & DIR. CLIN. TRAINING, CONWELL SCH. THEOL, 68- R.C.N.R, 53-58, Lt. Can. Psychol. Asn; Am. Psychol. Asn; Am. Sci. Affiliation. Relationships of psychology and Christianity; manipulation of human behavior; adjustment and education of college students. Address: Conwell School of Theology, Park Ave. & Norris St, Philadelphia, Pa. 19122.

COLLINS, PROF. GEOFFREY P(HILIP), b. Eng, Feb. 15, 05; nat; m. 32; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Toronto, 28; Gen. Ed. Bd. fel, Illinois, 42-43, M.S, 43. Asst. prof. AGR. ECON, OKLA. STATE, 44-46, ASSOC. PROF, 46- Agr. Econ. Asn. Agricultural finance, policies and price analysis. Publ: Insurance as related to farm financial risk, Bull. B609, 63 & Credit and capital growth, Bull. P490, 65, Okla. State Agr. Exp. Sta; Agricultural policy and the general economy, Southwest Soc. Sci. Quart. Address: 2123 University Ave, Stillwater, Okla. 74074.

COLLINS, DR. HARDIN AMBROSE, b. Hannibal, Mo, Jan. 1, 27; m. 51; c. 3. PSYCHOLOGY, EDUCATION. A.B, Cent. Methodist Col, 51; A.M, George Peabody Col, 53; Voc. Rehab. Admin. & Dept. Health, Ed. & Welfare fels. & Ph.D.(spec. ed, psychol), St. Louis, 63. Rehab. counsr, St. Louis Area Med. Off, United Mine Workers Am. Welfare & Retirement Fund, 53-56; proj. dir. & coordinator youth and adult center, United Cerebral Palsy Asn, St. Louis, 56-60; ASST. PROF. PSYCHOL, ST. LOUIS, 62- U.S.N, 44-46. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn; Coun. Except. Children. Psychology of exceptional children; rehabilitation counseling. Publ: Introversion and depression in mothers of cerebral palsied children, Mo. Med, 65; Counseling the mentally retarded, J. Rehab, 66; co-auth, Value congruence and the vocational self concept of school counselors, Personnel & Guid. J, 67. Address: Dept. of Psychology, St. Louis University, St. Louis, Mo. 63103.

COLLINS, DR. HENRY B(ASCOM), b. Geneva, Ala, Apr. 9, 99; m. 31; c. 1. ANTHROPOLOGY. A.B, Millsaps Col, 22, hon. Sc.D, 40; A.M, George Washington, 25; American Univ, 27. Asst, Miss. Dept. Arch. & Hist, 23; aide, div. ethnol, U.S. Nat. Mus, 24-25, asst. curator, 25-37, assoc. curator, 38-39; sr. ethnologist, Bur. Am. Ethnol, SMITHSONIAN INST, 39-63, acting dir, 63-65, sr. scientist, OFF. ANTHROP, 65-66, EMER. ARCHAEOLOGIST, 67- Mem. cmt. int. rels. in anthrop, Nat. Res. Coun, 45-46. Asst, Pueblo Bonito exped, Nat. Geog. Soc, 22-24; dir, Smithsonian expeds, Fla, Miss. & La, 25, 26, 28, 29, Nunivak Island & Bering Sea, 27, Punuk Island & Bering Strait, 28, St. Lawrence Island, Norton Sound & Arctic Coast, 29, St. Lawrence Island, 30; exped. to Bering Strait, Nat. Geog. Soc-Smithsonian Inst, 36; exped. to Can. Arctic, 48-50, 53-55. Asst. dir, Ethnogeog. Bd, 43-44, dir, 45-46, chmn. directing cmt, Arctic Bibliog, 47- Chmn, Am. del. & v.pres, Int. Cong. Anthrop. & Ethnol. Sci, Copenhagen, 38; hon. v.pres, Int. Cong. Americanists, 56; v.pres, Int. Cong. Anthrop. & Ethnol. Sci, Moscow, 64. Gold medal, Royal Danish Acad, 36. U.S.A, 18. AAAS; Anthrop. Asn; Soc. Am. Archaeol. (v.pres, 42, 52); Asn. Phys. Anthrop; Arctic Inst. N.Am. Archaeology; anthropology of the Arctic; physical anthropology, chiefly Eskimo and Indians. Publ: Prehistoric art of the Alaskan Eskimo; Archaeology of St. Lawrence Island, Alaska; Arctic area. Address: Office of Anthropology, Smithsonian Institution, Washington, D.C. 20560.

COLLINS, PROF. HERBERT, b. Brooklyn, N.Y, June 21, 20; m. 47; c. 2. SOCIOLOGY, RACE RELATIONS. B.A, Brooklyn Col, 43; M.A, Duke, 46, fel, 57-58, Ph.D.(sociol), 65; Columbia, 46-47. Instr. hist, Brooklyn Col, 45-46; Hunter Col, 46-47; from asst. prof. to assoc. prof. SOCIOL, N.C. State Col, 47-66; PROF, STATE UNIV. N.Y. NEW PALTZ, 66- Vis. prof, Shaw, 63-66; State Univ. N.Y. res. grant, 66-68; summer, vis. asst. prof, Duke, 59. Sociol. Asn; Acad. Polit. & Soc. Sci; Soc. Appl. Anthrop. Race and minority relations; sociology of conflict; race and culture in diverse societies. Publ: The sociology of emancipation, Phylon, 65; Ideological assessment of negroes, J. Human Rels; Fabulous races, In: Race. Address: Dept. of Sociology, State University of New York College at New Paltz, New Paltz, N.Y. 12561.

COLLINS, DR. JOHN J, b. Lowell, Mass, Dec. 22, 23; m. 52; c. 4. PSYCHOLOGY, BIOLOGICAL SCIENCES. B.A, Missouri, 49; M.A, Georgia, 50; Ph.D. (psychol), George Washington, 65. Res. psychologist, U.S. Naval Personnel Res. Lab, 51-55, Bur. Naval Personnel, 55-56; personnel res. adv. to DEP. CHIEF NAVAL OPERS, 56-61, BEHAV. & SOC. SCI. ADV, 60- Lectr, George Washington, 55-59. Adv. to supt, U.S. Naval Acad, 67-; consult, center tech. & admin, American Univ, 67- Mem. for. area res. coord. group, U.S. Dept. State, 65-; behav. sci. forum, U.S. Dept. Defense, 65-U.S.C.G, 42-46. Psychol. Asn; Human Factors Soc; Personnel & Guid. Asn. Man-machine systems; cetacean research; education research and technology. Publ: Co-auth, Intelligence testing of Negro syphilities, J. Soc. Psychol, 54 & Men and machine in NATO, NATO Sci. Cmt, 63; auth, Advanced marine biological systems, Chief of Naval Opers, 67. Address: 11409 Hounds Way, Rockville, Md. 20852.

COLLINS, DR. JOHN NORMAN, b. Seattle, Wash, Mar. 30, 37; m. 61; c. 3. POLITICAL SCIENCE. B.A, Washington (Seattle), 60; Prog. African Studies fel, Northwestern, 63-66, M.A, 64, Ph.D.(polit. sci), 67. Instr. POLIT. SCI, MICH. STATE, 66-67, ASST. PROF, 67- U.S.A.R, 60-68, 1st Lt. Polit. Sci. Asn. Domestic and international conflict in Africa; development administration in Africa. Address: 805-207 Cherry Lane, East Lansing, Mich. 48823.

COLLINS, DR. JUNE McCORMICK, b. Seattle, Wash, Jan. 18, 20; m. 42; c. 3. ANTHROPOLOGY. B.A, Washington, 41, fel, 41-42; fel, Radcliffe Col, 42-43; M.A, Chicago, 46, Ph.D.(anthrop), 49. Asst. anthrop, Harvard, 43; instr. sociol, Wellesley Col, 44; asst. cmt. human rels, Chicago, 45-47, anthrop, 48-49; instr, Washington (Seattle), 47; Minnesota, 49; assoc, Northwestern, 49-50; asst. prof. anthrop. & sociol, Missouri, 51-52; lectr. anthrop, Seattle, 54-56; assoc. prof. clothing & textiles, Pa. State, 56-58; asst. prof. psychol. & sociol, Chicago Teachers Col, 58-59; asst. prof. anthrop. & sociol, Mich. State-Oakland, 59-64; assoc. prof. behav. sci, Southern Illinois, Edwardsville Campus, 64-68; PROF. ANTHROP, STATE UNIV. N.Y. COL. BUFFALO, 68- Anthrop. Asn; Ethnol. Soc.(secy). Cultural anthropology; ethnology; linguistics; social organization, especially kinship systems and political structure; relationship between language and other aspects of culture. Publ: John Fornsby: the personal document of a coast Salish Indian, In: Indians of the urban Northwest; Interpretation of Skagit intragroup conflict during acculturation & Growth of class distinctions and political authority among the Skagit Indians during the contact period, Am. Anthropologist. Address: Dept. of Anthropology, State University of New York College at Buffalo, 1300 Elmwood Ave, Buffalo, N.Y. 14222.

COLLINS, PROF. MARCUS W(HITFORD), b. Marion, S.C, Mar. 23, 10; m. 55. SOCIOLOGY. A.B, Alabama, 29; M.A, George Washington, 37; Hopkins, 39; A.M. & Ph.D, Harvard, 43. Prof. sociol. & chmn. dept, Pa. Col. Women; vis. prof. & lectr, St. Louis; assoc. prof. sociol, Fla. State; vis. prof, Dak. Wesleyan; prof, Stetson; ed. specialist, U.S. Dept. State; vis. prof. sociol, Hopkins; prof, Atlanta Div, Georgia; prof. & chmn. dept, Findlay Col, 60-64; chmn. dept. soc. sci, Knoxville Col, 64-66; PROF. SOCIOL, Lock Haven State Col, 66-67; BOISE COL, 67- Lectr, Heidelberg; prof, Wis. State Col; chmn. dept, Wayland Baptist & High Point Cols. Consult, Mayor's Cmt. Unity, New York; ed. specialist, U.S. Dept. State, U.S. High Cmnr. for Germany. Metrop. dir, Nat. Conf. Christians & Jews; del, Gov. Conf. Sr. Citizens, Ohio, 60. Bowdoin prize, Harvard, 43. Fel. AAAS; fel. Sociol. Asn. Marriage and the family; criminology; social pathology; urban sociology; sociological theory; empirical sociological research. Publ: Life, labor, and sorrow: a study of the Negro in the Santee-Cooper area of South Carolina; Forward steps in democracy; Clinical approach to the alleviation of prejudice against minority groups in the United States. Address: Dept. of Sociology, Boise College, Box 62, 1907 Campus Dr, Boise, Idaho 83701.

COLLINS, DR. MARY EVANS, Psychol, see 10th ed, Soc. & Behav. Vols.

COLLINS, MAJ. MICHAEL J(OHN), U.S.A.F, b. Indianapolis, Ind, May 8, 31; m. 55; c. 4. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Butler, 53, M.A, 55; M.A, Rutgers, 65, Ph.D.(polit. sci), 68. Eng. aide data processing, Allison Div, Gen. Motors Corp, 55-56; U.S. AIR FORCE, 56-, from instr. to chief of admin, McGuire Air Force Base, N.J, 57-62, instr. hist, U.S. MIL. ACAD, 64-65, ASST. PROF. POLIT. PHILOS, 65- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Comparative and American government; political philosophy. Address: 330 S. Downey Ave, Indianapolis, Ind. 46219.

COLLINS, PROF. MORRIS W(ILLIAM) H(OLLOWELL), JR, b. Athens, Ga, Aug. 13, 17; m. 47; c. 4. POLITICAL SCIENCE. A.B, Georgia, 39, M.A, 40; Wisconsin, 40-41; scholar, Harvard, 47-50, Ph.D, 53. Asst. prof. POLIT. SCI, GEORGIA, 50-54, assoc. prof, 54-62, PROF, 62-, DIR, INST. GOVT, 57- Dir, Bur. Pub. Admin, Ga, 52-54; staff dir, Gov. Cmn. Econ. Reorgn. Ga, 59; exec. dir, Gov. Cmt. Efficiency & Improv. in Govt, 63-66. U.S.A, 41-45, Maj. Polit. Sci. Asn. Public administration; political parties; local and state government. Address: Institute of Government, University of Georgia, Athens, Ga. 30601.

COLLINS, PROF. NORMAN R(ICHARDSON), b. Topeka, Kans, Dec. 18, 28; m. 52. ECONOMICS. B.S, Kans. State Col, 50; M.A, Harvard, 52, Ph.D, 56. Asst. prof. AGR. ECON. & asst. economist, Kans. State Col, 54-56; assoc. prof. CALIFORNIA, BERKELEY, 56-65, PROF, 65- U.S.A.A.F, 52-54, Lt. Econ. Asn; Farm Econ. Asn. Agricultural prices; statistics; agricultural marketing. Publ: Co-auth, Studies in simulated market, Inst. Bus. & Econ. Res, Univ. California, 66; Size structure of the largest industrial firms, Am. Econ. Rev, 7/61; Concentration and price-cost margins in food manufacturing industries, J. Indust. Econ, 7/66. Address: 207 Giannini Hall, University of California, Berkeley, Calif. 94720.

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COLLINS, DR. PETER, Foundations of Ed, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

COLLINS, DR. RICHARD C(LYDE), b. La Crosse, Wis, Aug. 6, 34; m. 58; c. 5. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Wis. State, La Crosse, 60; Nat. Defense Ed. Act fel, Colorado, 60-63, Ph.D.(polit. sci), 63. Asst. prof. polit. sci, Seattle, 63-66, chmn. dept, 66; assoc. dir, exec. seminar center, U.S. Civil Serv. Cmn, 66-68; ASSOC. PROF. PUB. AFFAIRS & ADMIN, OREGON, 68- U.S.A.F, 52-56, S/Sgt. Polit. Sci. Asn; Soc. Pub. Admin. American government; intergovernmental relations; public law. Address: University of Oregon, Eugene, Ore. 97403.

COLLINS, DR. ROBERT LOUIS, Genetics, Neurochem, see 11th ed, Phys. & Biol. Vols.

COLLINS, PROF. R(OBERT) T(HOMAS), b. Des Moines, Iowa, Apr. 25, 16; m. 40; c. 3. ECONOMICS. B.S.C, Iowa, 39; M.A, Southern California, 49, Ph.D, 54. Asst. prof. ECON, Ala. Polytech, 52-55, assoc. prof, 55-57, PROF, 57-60; Richmond, 60-62; SOUTH CAROLINA, 62- U.S.N.R, 44-46, Lt(jg). Econ. Asn. Taxation and public finance; business cycles; economic theory. Publ: Municipal finance in South Carolina, 1963, Bur. Govt. Res. & Serv, Univ. South Carolina, 65. Address: Dept. of Economics, University of South Carolina, Columbia, S.C. 29208.

COLLINS, DR. WILLIAM EDWARD, b. Brooklyn, N.Y, May 16, 32. PSYCHOLOGY. B.S, St. Peter's Col, 54; M.A, Fordham, 56, fel, 58, Ph.D.(exp. psychol), 59. Asst. psychol, Fordham, 54-56, instr. exp. psychol. & asst, Off. Naval Res. Contract, 58-59; RES. PSYCHOLOGIST, U.S. Army Med. Res. Lab, Ft. Knox, Ky, 59-61; CIVIL AEROMED. INST, FED. AVIATION ADMIN, 61-65, CHIEF PSYCHOL. LAB, 65- Med.Serv.C, 59-61, 1st Lt. AAAS; Psychol. Asn; Psychonomic Soc; Aerospace Med. Asn. Perceptual and oculomotor reactions to vestibular stimulation; visual perception; color blindness and normal color vision; psychophysiology. Publ: Effects of deuteranomaly and deuteranopia upon the foveal luminosity curve, J. Psychol; subjective responses and nystagmus following repeated unilateral caloric stimulation, Ann. Oto-Rhino-Laryngol, 65; Vestibular responses from figure skaters, Aerospace Med, 66. Address: AC-118, Civil Aeromedical Institute, Federal Aviation Administration, Box 25082, Oklahoma City, Okla. 73125.

COLLISTER, PROF. E(DWARD) GORDON, b. Utica, N.Y, Jan. 17, 14; m. 35; c. 3. PSYCHOLOGY. A.B, Princeton, 34; M.A, N.Y. Univ, 38; Ph.D. (counseling psychol), Syracuse, 53. Teacher, high schs, N.Y, 35-43, dir. guid, 46-48; coordinator counseling, psychol. servs. center, Syracuse, 48-50; PROF. ED. & DIR. GUID. BUR, KANSAS, 50- Consult, U.S. Bur. Indian Affairs, 50-; Human Resources Res. Labs, 51-53; Vet. Admin, 55- U.S.N.R, 43-46, Lt.(jg). AAAS; Psychol. Asn. Education; measurement of vocational interests; counseling methodology; selection of scholarship recipients. Publ: Co-auth, Educational achievement of Indian children; Sociometric status of 6th and 9th graders who fail to finish high school, Ed. & Psychol. Measurement; Method of reporting test results, Univ. Kansas Bull. Ed. Address: Guidance Bureau, University of Kansas, Lawrence, Kans. 66044.

COLM, DR. GERHARD, b. Hanover, Germany, June 30, 97; nat; m. 22, 66; c. 4. ECONOMICS. Dr. rer. pol, Freiburg, 21; hon. Dr, Frankfurt, 61, New Sch. Soc. Res, 64. Economist, Fed. Statist. Bur, Germany, 21-27; prof. econ. & dep. dir. res. inst. world econ, Kiel, 27-33; prof. econ, New Sch. Soc. Res, 33-39, dean grad. faculty polit. & soc. sci, 38-39; fiscal expert, U.S. Dept. Commerce, D.C, 39-40; fiscal analyst & asst. chief, U.S. Bur. Budget, 40-46; economist, U.S. Coun. Econ. Adv, Exec. Off. Pres, 46-52; CHIEF ECONOMIST, NAT. PLANNING ASN, WASH, D.C, 52- Prof. lectr, George Washington, 40-63, mem. grad. coun, 40-; prof. lectr, spec. mission, U.S. Mil. Govt, Germany, 46. Consult. to U.S. Secy. Treasury, 67-; consult, off. econ. & manpower studies & chmn. group, Nat. Sci. Found, 67- Econ. Asn; Finance Asn; Asn. Comp. Econ.(pres, 66). Public finance; fiscal policy; international economics. Publ: The American economy in 1960; Essays in Public Finance and fiscal policy; co-auth, The economy of the American people, Nat. Planning Asn, 3rd ed, 67. Address: 3507 Hamlet Place, Chevy Chase, Md. 20015.

COLMAN, DR. GOULD P, Agr. & Oral Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COLMAN, DR. ROBERT W(HEELER), b. Butte, Mont, Mar. 12, 40; m. 63. PSYCHOLOGY. A.B, Harvard, 62; M.A, North Carolina, 66, Ph.D.(psychol), 67. Psychol. asst. clin. psychol, Mont. State Hosp, 62-63, psychologist, summer 64; ASST. PROF. PSYCHOL, N.Y. UNIV, 67-, Univ. Arts & Sci. Res. Fund grant, 67- AAAS; Psychol. Asn. Experimental social psychology: cognitive and interpersonal conflict, attitude change, person perception; self theory. Address: Dept. of Psychology, New York University, New York, N.Y. 10453.

COLMEN, DR. JOSEPH GEOFFREY, b. Brooklyn, N.Y. Mar. 7, 20; m. 44; c. 2. PSYCHOLOGY, EDUCATION. B.S, City Col. New York, 39; M.A, Columbia, 40; Ph.D.(pub. admin), American Univ, 53. Occup. analyst, U.S. Employ. Serv, 40-42, 44-48; dir. res, hq, U.S. Air Force, 48-61; dep. dir. selection, U.S. Peace Corps, 61-62, dir. res. behav. sci, 62-64, dep. assoc. dir. planning, 64-66; DEP. ASST. SECY. ED, U.S. DEPT. HEALTH, ED. & WELFARE, 66- Prof, George Washington, 56-65. Consult, Industry, 54-59; Joseph P. Kennedy Found. Ment. Retardation, 64-66. Mem, President's Cmts, Scientist & Engr, 58, Fund-Raising, 59, Manpower, 66-; bd. dirs, Nat. Kidney Found, 65- U.S.N.R, 42-44, Lt.(jg). Psychol. Asn. Educational administration; industrial psychology. Publ: Discovery of commitment, Ann. Acad. Polit. & Soc. Sci, 5/66; New initiatives in international education, U.S. Dept. of State Bull, 7/66; The challenge of the manpower crisis, In: Human resources development, Iowa State Univ, 67. Address: 8009 Whittier Blvd, Bethesda, Md. 20034.

COLMEN, DR. KENNETH S(EYMOUR), b. Pittsburgh, Pa, Sept. 11, 26; m. 47; c. 1. ECONOMICS. B.A.E, Ga. Inst. Tech, 46; M.B.A, Cornell, 49; Ph.D. (econ), American Univ, 56. Mgt. trainee, Exec. Off. Secy, U.S. Dept. Navy, 49-50; tech. asst. to dir. resources, res. & develop. bd, Off. Secy. Defense, 50-54; spec. asst. to asst. dir. sci. personnel & ed, Nat. Sci. Found, 54-56; sci. manpower adv, Atomic Energy Cmn, 56-58; dir. personnel, Inst. Defense Anal, 58-60; dir. mgt. opers. & personnel, res. & develop. div, Am. Mach. & Foundry Co, Conn, 60-64, div. v.pres. personnel & indust. rels. N.Y, 64, PRES. & GEN. MGR, AMF THERMATOOL, INC, 64- U.S.N.R, 43-46, Lt. Economic effects of scientific research and development. Address: AMF Thermatool, Inc, 85 Beechwood Ave, New Rochelle, N.Y. 10801.

COLOMBINI, DR. VICTOR D, Geol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

COLOMBOTOS, DR. JOHN L, b. Mineola, N.Y, Mar. 1, 29; m. 52; c. 4. SOCIOLOGY. B.A, Columbia, 49, M.A, 52; Ph.D.(sociol), Michigan, 61. Res.

asst, bur. soc. sci. res, American Univ, 52-55; res. assoc, Med. & Health Res. Asn, New York Dept. Health, 60; res. asst. & res. assoc, SCH. PUB. HEALTH. & ADMIN. MED, COLUMBIA, 61-67, ASST. PROF. SOCIOL, 67- U.S. Pub. Health Serv. res. grants, 62- AAAS; Sociol. Asn; Pub. Health Asn; Asn. Pub. Opinion Res. Sociology of professions; social organization of medical care; survey research methodology. Address: 186 Crescent Ave, Leonia, N.J. 07605.

COLON, DR. FRANK THOMAS, b. Tarentum, Pa, Aug. 6, 32; m. 64. POLITICAL SCIENCE. A.B, Geneva Col, 54; M.A, Pittsburgh, 60, Ph.D.(polit. sci), 63. Asst. prof. polit. sci, Villanova, 62-65; ASSOC. PROF. GOVT, LEHIGH, 65- Consult, Hanover Township Bd. Supvrs, 66-67; Allentown Charter Cmn, 67. U.S.N, 55-57. Polit. Sci. Asn; Soc. Pub. Admin. Organizational study of national, state and local government; regulatory administration, budgeting and personnel. Publ: The Sangamon Valley case, Fed. Commun. Bar J, 65; The federal commissions: the Adams-Goldfine case, Duquesne Rev, 67; The elected woman, Soc. Studies, 67. Address: Dept. of Government, Lehigh University, Bethlehem, Pa. 18015.

COLSON, PROF. E(LIZABETH) F(LORENCE), b. Hewitt, Minn, June 15, 17. SOCIAL ANTHROPOLOGY. A.B, Minnesota, 38, A.M, 40; A.M, Radcliffe Col, 41, Ph.D.(soc. anthrop), 45. Asst. soc. sci. analyst, War Relocation Authority, 42-43; asst. anthrop, Harvard, 44-45; res. officer, Rhodes-Livingstone Inst, 46-47, dir, 48-51; Simon fel, Manchester, 51, sr. lectr. soc. anthrop, 51-53; assoc. prof. anthrop, Goucher Col, 54-55; assoc. prof. African studies, Boston, 55-59, res. assoc, African Res. Prog, 55-63; vis. prof, Northwestern, 63-64; PROF. ANTHROP, CALIFORNIA, BERKELEY, 64- Prof, Brandeis, 59-63; Nat. Insts. Health spec. fel, Center Adv. Study Behav. Sci, 67-68. Anthrop. Asn; African Studies Asn; Ethnol. Soc; Royal Anthrop. Inst. Gt. Brit. & Ireland; Asn. Soc. Anthrop. Brit. Commonwealth; Int. African Inst. Social anthropology of central Africa; social change; comparative political systems. Publ: Marriage and the family among the Plateau Tonga; Social organization of the Gwembe Tonga; The Plateau Tonga. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

COLTON, DR. HATTIE K(AWAHARA), b. Portland, Ore, Feb. 18, 21; m. 54; c. 3. GOVERNMENT. A.B, Mt. Holyoke Col, 43, A.M, 45; Carnegie scholar, Inter-Am. Acad. Comp. & Int. Law, Havana, 47; Ph.D, Minnesota, 49. Asst. prof. govt, Wayne State, 48-55; Int. Christian Univ, Japan, 56-58; course chmn, FOR. SERV. INST, U.S. DEPT. STATE, 61-62, CHMN. E.ASIAN STUDIES, 62- Ford Found. fel, 52-54. Consult, Brookings Inst, 67-68. Polit. Sci. Asn; Asn. Asian Studies. Government and political theory; Japanese politics and government. Address: 4619 Hunt Ave, Chevy Chase, Md. 20015.

COLTON, PROF. KENNETH E(LMER), b. Des Moines, Iowa, Feb. 3, 13; m. 54; c. 1. POLITICAL SCIENCE. S.B, Harvard, 36; M.A, Iowa, 42. Intel. specialist, Supreme Comdr. Allied Powers, Japan, 46-50, historian, civil hist. sect, 50-52; asst. prof. polit. sci, Int. Christian Univ, Tokyo, 55-58; consult, Joint Opers. Group, U.S. Dept. Defense, 58-65; ASSOC. PROF. POLIT. SCI, KENT STATE, 66- Sig.C, U.S.A, 42-46. Asn. Asian Studies. Social dynamics in foreign policy formation; factors in political leadership selection; political party systems and electoral practices. Publ: Co-ed, Outline of Japanese history in the Meiji era. Address: Dept. of Political Science, Kent State University, Kent, Ohio 44240.

COLUMBRO, P(AT) J(AMES), b. Cleveland, Ohio, June 14, 21; m. 50; c. 2. SOCIOLOGY, LAW. Ph.B, John Carroll, 43; Michigan, 44; M.A, Western Reserve, 48; LL.B, Baldwin-Wallace Col, 54, LL.M, 56. Field rep, Soc. Security Admin, 47-50, policy consult, 50-53; dir. mgt. eng. div, finance center, U.S. Dept. Navy, 53-63; ASST. REGIONAL ADMINSTR, U.S. DEPT. LABOR, 63- Instr, John Carroll, 49-50. U.S.A, 43-46. Soc. Pub. Admin. Integration of sociology and law. Address: 3471 Belvoir Blvd, Shaker Heights, Ohio 44122.

COLVARD, DR. RICHARD MALTBY, b. Weiser, Idaho, Oct. 22, 28; div; c. 2. SOCIOLOGY. B.A, Antioch Col, 52; Weyerhauser fel, Chicago, 53-54; Ph.D, California, 59. Asst. SOCIOL, California, 54-56; instr, Texas, 57-59, asst. prof, 59-63; ASSOC. PROF, STATE UNIV. N.Y. BUFFALO, 63- Summer instr, Oregon, 57. Sociol. Asn. Organizational and institutional analysis; work and professions; higher education and philanthropy. Publ: Foundations and professions, Admin. Sci. Quart, 61; Risk capital philanthropy: the ideological defense in innovation, In: Explovations in social change, 64; Interaction and identification in reporting field research, In: Ethics, politics, and social research, 67. Address: Dept. of Sociology, State University of New York at Buffalo, Hayes Hall, Administration Rd, Buffalo, N.Y. 14214.

COLVER, DR. ROBERT M(ERLE), b. Clearwater, Kans, Aug. 30, 14; m. 40; c. 2. PSYCHOLOGY. A.B, Wichita, 36, M.A, 50; Ed.D.(counseling psychol), Kansas, 52. ASST. DIR. guid. bur, Ark. Polytech, 52-53; BUR. TESTING & GUID, DUKE, 53-, ASST. TO V.PRES. FOR REGIONAL PROGS, 67- Fel. ed. res, Ed. Testing Serv, N.J, 66-67. U.S.A, 40-46, Maj. Psychol. Asn; Personnel & Guid. Asn; Asn. Instnl. Res; Ed. Res. Asn. Evaluation of measuring devices; higher education. Address: 2720 Circle Dr, Durham, N.C. 27705.

COLVIN, PROF. MILTON, b. Missoula, Mont, June 20, 23; m. 53; c. 3. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Yale, 48; Ph.D, Heidelberg, 53. Adminstr, White House Cmn. U.S. Displaced Persons, 48-50; asst. prof. anthrop, Montana State, 54-58; POLIT. SCI, Vanderbilt, 58-59, assoc. prof, 59-60;lectr, Chicago, 60-61; assoc. prof, WASHINGTON & LEE, 61-67, PROF, 67- Vis. prof, Nat. War Col, 65-66. U.S.A, 42-45, Res, 46-, Capt. Polit. Sci. Asn; Acad. Polit. Sci. Impact of culture patterns on international relations. Publ: Attitudes on German rearmament, Yale Rev; Problems of Austrian rearmament, Mil. Rev; Alfred Weber: the sociologist as humanist, Am. J. Sociol. Address: Dept. of Political Science, Washington & Lee University, Lexington, Va. 24450.

COLVIN, DR. RALPH W(HITMORE), b. Neenah, Wis, July 23, 20; m. 46; c. 2. CLINICAL PSYCHOLOGY. B.S, Lawrence Col, 42; Ph.D.(psychol), Duke, 53. Intern clin. psychol, St. Elizabeths Hosp, D.C, 43-45, 46-48; Vet. Admin. trainee, Duke, 48-53, univ. res. asst, 51; staff psychologist, F.D, Roosevelt Vet. Admin. Hosp, Montrose, N.Y, 53-55; dir. res. & psychol. serv, Astor Home for Children, Rhinebeck, 55-62, dir. psychol. res, 62-65; DIR. RES, CHILD WELFARE LEAGUE AM, 65- Adj. assoc. prof, Fordham, 60-; vis. prof, Bard Col, 61-62; summer sch. instr, Teachers Col, Columbia, 64-65. Private practice, 53-; dir. res, Kennedy Child Study Center, New York, 58-64, proj. dir, 64-66; dir, N.Y. Asn. Brain Injured Children Res. & Study Center, Kerhonkson, 64-68; dir. res. & clin. serv, Gateway Sch, New York, 65-; proj. dir, Astor Home for Children, 65-68. Consult, Astor Home for Children, 54-55; bd. regents, N.Y. State Dept. Ed, 64-; child welfare res, children's bur, Dept. Health, Ed. & Welfare, 64-67, bur. state serv, 65-68, welfare admin, off. cmnr, 66- Trustee, Lakeland Bd. Ed, Lake Mohegan, N.Y, 55-63, v.pres, 58-59, pres, 59-60; trustee, Bd. Coop. Ed. Serv, Westchester County, 58-62, clerk, 60-61, pres, 61-62, res. consult, 63- Chmn, Gov. Adv. Coun. Community Ment. Retardation Facilities, 65-; adv. coun. psychol, State Univ. N.Y, 65-; mem, Mayor's Cmt. Ment. Retardation, New York, 66- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 63. Psychol. intern asst, ed. serv, U.S. Naval Reserve Hosp. Corps, U.S.N.R, 42-46. AAAS; Psychol. Asn; Orthopsychiat. Asn; Asn. Ment. Deficiency; Soc. Proj. Tech; Interam. Soc. Psychol; Acad. Ment. Retardation (treas, 63-64, pres, 64-66); Int. Coun. Psychol. Intellectual and social development of disturbed, retarded, brain injured and normal children; residential treatment and day-care of handicapped children; foster-parent-child matching; child welfare research and community planning. Publ: Development of an integrated research-training day-care program for preschool retardates and their parents. I Development of an interdisciplinary research project & II Research data as the basis for a family study, Proc. London Conf. Sci. Study Ment. Deficiency, 61; Education of emotionally disturbed children in a residential treatment center, Am. J. Orthopsychiat, 31: 591-597; Toward the development of a foster parent attitude test, In: Quantitative approaches to parent selection, Child Welfare League Am, 61. Address: 45 Dogwood Rd, Peekskill, N.Y. 10566.

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COLYER, DR. DALE K, b. Albion, Ill, Dec. 22, 31; m. 59; c. 2. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Illinois, 54, M.S, 55; Ph.D.(econ), Wisconsin, 63. Res. asst. AGR. ECON, Fed. Res. Bank, Kansas City, Mo, 58-60; asst. prof, MISSOURI, COLUMBIA, 63-65, ASSOC. PROF, 65- U.S.A, 56-58. Farm. Econ. Asn. Production economics; agricultural credit and capital. Publ: Co-auth, Computational techniques, Res. Center Univ. Missouri, 2/67; Beef, pork and feed grain in the corn belt: supply response and resource adjustments, N.Cent. Regional Pub. 178, 67; auth, A capital budgeting, mixed integer, temporal programming model, Can. J. Agr. Econ, 1/68. Address: Dept. of Agricultural Economics, University of Missouri, Columbia, Mo. 65201.

COMALLI, DR. PETER E(LIA) JR, Psychol, see 10th ed, Soc. & Behav. Vols.

COMANOR, DR. WILLIAM S(TEPHEN), b. Philadelphia, Pa, May 11, 37. ECONOMICS. A.B, Haverford Col, 59; Nat. Sci. Found. fel, London Sch. Econ, 63-64; Ph.D.(econ), Harvard, 64. Instr. econ, Harvard, 64-65; spec. econ. asst. to asst. attorney gen, antitrust div, U.S. Dept. Justice, 65-66; ASST. PROF. ECON, HARVARD, 66- Sloan Found. res. grant, 66-67. Econ. Asn. Industrial organization; economics of research. Publ: Research and competitive product differentiation in the pharmaceutical industry in the U.S, Economica, 11/64; Research and technical change in the pharmaceutical industry, 5/65 & co-auth, Advertising market structure and performance, 11/67, Rev. Econ. & Statist. Address: Dept. of Economics, Harvard University, 1746 Cambridge St, Cambridge, Mass. 02138.

COMAS, PROF. JUAN, b. Alayor, Spain, Jan. 23, 00; nat. Mex; m. 49. ANTHROPOLOGY. M.S, Madrid, 21; Ph.D, Geneva, 39; hon. Dr, Cuzco, 49, Lima, 62. Supvr. ed, Ministry Pub. Ed, Spain, 21-39; secy, Inter-Am. Indian Inst, Mex, 42-55; RES. PROF. ANTHROP, NAT. UNIV. MEXICO, 55- Prof, Nat. Sch. Anthrop, Mex, 41-59; ed, Norm. High Sch, 46-55. Ed, Bibliog. Bull. Am. Anthrop, 43-52; América Indígena, 44-52; Anales Antropología, 63- Tech. adv, Bd. Cultural Rels, Ministry For. Affairs, Spain, 33-36. With Army, Spain, 21-24. Fel. Am. Anthrop. Asn; Asn. Phys. Anthrop.(hon. pres, 63-64); Mex. Anthrop. Soc; Mex. Natural Hist. Soc; Mex. Soc. Hist. Med; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Int. Union Anthrop. & Ethnol. Sci.(v.pres, 60-68). Physical anthropology and Indianism. Publ: Historia y Bibliografía de los Congresos Internacionales de Ciencias Antropológicas: 1865-1954, 56; Somatometria Indios Triques de Oaxaca, México, 65; Características físicas familia, linqüística Maya, 66. Address: Sección de Antropología, Universidad Nacional de México, Ciudad Universitaria, México, 20, D.F.

COMBS, PROF. ARTHUR WRIGHT, b. Newark, N.J, June 3, 12; m. 34; c. 2. PSYCHOLOGY. B.Sc, Ohio State, 35, M.A, 41, Ph.D.(psychol), 45. Psychologist, schs, Ohio, 35-41; asst. psychol, Ohio State, 41-42; instr, Syracuse, 42-44, asst. prof. clin. psychol, 44-48, assoc. prof, 48-54, head ment. hyg. serv, 44-54; PROF. ED, FLORIDA, 54-, CHMN. DEPT. FOUND. OF ED,

67- Awards, Am. Personnel & Guid. Asn, 63 & John Dewey Soc, 66 & 67. Fel. Psychol. Asn; fel. Soc. Psychol. Study Social Issues. Personality; client-centered psychotherapy; personality theory; educational psychology; nature of the helping relationship. Publ: Co-auth, Individual behavior; ed, Perceiving, behaving, becoming: a new focus on education; auth, The professional education of teachers, Allyn & Bacon, 65. Address: College of Education, University of Florida, Gainesville, Fla. 32601.

COMBS, DR. JERRY W(ALKER), JR, b. Monticello, Ga, Mar. 7, 13; m. 44; c. 2. SOCIOLOGY. B.A, Presby. Col, 34; M.A, Tennessee, 48; Ph.D. (sociol), Columbia, 54. Res. assoc, bur. appl. soc. res, Columbia, 49-51, lectr. sociol, sch. gen. studies, 50-51; asst. prof. sociol, Emory, 51-53; ANAL. STATISTICIAN, manpower res. br, Human Resources Res. Inst, 53-56; personnel lab, Air Force Personnel & Training Res. Center, 56-57; FOR. DEMOG. ANAL. DIV, U.S. BUR. CENSUS, 57- U.S.A, 42-46, Lt. Col. AAAS; Sociol. Asn; Pop. Asn. Demography; social structure; family. Publ: Co-auth, Pattern of Puerto Rican fertility, Pop. Studies; Demographic changes in eastern Europe, In: Population trends in Eastern Europe, the U.S.S.R. and Mainland China; contrib, Urban growth as world phenomenon, In: Dynamic urban society. Address: Foreign Demographic Analysis Division, U.S. Bureau of the Census, Dept. of Commerce Bldg, Washington, D.C. 20230.

COMBS, PROF. WILLIAM F(RANCIS). b. Keystone, W.Va, Mar. 6, 24; m. 49. SOCIAL PSYCHOLOGY, SOCIOLOGY. B.A, West Virginia, 48, M.A, 49; Am. Found. Blind fel, Oklahoma, 56, Ph.D.(psychol), 57. Vis. asst. prof. PSYCHOL, Tulsa, 58-59; asst. prof, Otterbein Col, 60-62, assoc. prof, 62-65; PROF, CLARION STATE COL, 65- AAAS; Psychol. Asn. Ego stability of the blind as affected by structuredness of social and physical space conditions; personality organization as affected by perceptual and conceptual factors. Address: 15 Riverview Ave, Clarion, Pa. 16214.

COMBS, PROF. WILLIAM HOBART, b. Ind, Oct. 5, 96; m. 16; c. 2. POLITICAL SCIENCE. A.B, Indiana, 24, A.M, 26; fel, Cincinnati, 26-27; fels, Pennsylvania, 27-28, 30-31, Ph.D, 33. Instr. hist. & polit. sci, Tennessee, 31-38; from asst. prof. hist. & polit. sci. to prof. pub. admin. & head dept, MICH. STATE, 39-49, admin. asst. to pres, 47-56, dean all-col. div, 49-56, univ. serv, 56-67, secy. faculties, 59-67, EMER. PROF. PUB. ADMIN, EMER. DEAN UNIV. SERV, ASST. DEAN CONTINUING ED. ARTS & LETTERS & ARCHIVIST, LAND GRANT RES. CENTER, 67- Consult, State Dept. Pub. Welfare, Tenn, 38; Joint Legis. Cmt. Reorgn. State Govt, 50. Staff dir, Gov. Constitutional Convention Preparatory Cmn, 61; co-dir. res. & drafting, State Constitutional Conv, Mich, 61-62. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Int. City Mgrs. Asn. Public and educational administration. Publ: Co-auth, Constitutional problems in Tennessee & Tennessee, a political study. Address: 427 Orchard St, East Lansing, Mich. 48823.

COMFORT, PROF. GEORGE O, JR, b. Kalamazoo, Mich, Dec. 29, 08. POLITICAL SCIENCE. A.B, West. Mich. Col, 32; A.M, Michigan, 34; Ph.D, Kentucky, 39. Assoc. prof, West. Mich. Col, 34-46; ASSOC. PROF. POLIT. SCI. & HEAD DEPT, Dennison, 46-49; BUTLER, 49- Mem, Midwest Conf. Polit. Scientists. Publ: Your government; Professional politicians. Address: Dept. of History & Political Science, Butler University, Indianapolis, Ind. 46208.

COMHAIRE, PROF. JEAN L(OUIS LÉOPOLD), b. Seraing, Belgium, June 29, 13; m. 36; c. 1. ANTHROPOLOGY, SOCIOLOGY. Ph.B, Brussels, 32, J.D, 36; London, 36; Ph.D, Oxford, 48. Lectr. soc. sci, sch. letters, Haiti, 37-41; mem. res. staff, Nuffield Col, Oxford, 46-48; assoc. prof, Seton Hall, 49-60; urban sociologist, UN Econ. Cmn. Africa, 60-65; PROF. ANTHROP, Univ. Addis Ababa, Ethiopia, 65-67; STATE UNIV. CONGO, 67- Free Belgian Forces, 41-43, Belgian Congo Govt, 43-46. Fel. Anthrop. Asn; Sociol. Asn; Soc. Hist. & Geog. Haiti. African and Afro-American areas studies; urbanization; culture contact, especially government and religion. Publ: Co-auth, How cities grew; auth, Aspects of urban administration in tropical and southern Africa; Addis Ababa, French Document, France, 68. Address: Dept. of Anthropology, State University of the Congo, Box 1825, Lubumbashi, Congo.

COMIEZ, DR. MAYNARD S, b. Syracuse, N.Y, Dec. 2, 31. PUBLIC FINANCE. A.B, Syracuse, 53, M.A, 55; Ph.D.(econ), Wisconsin, 61. Economist, bd. governors, Fed. Reserve Syst, 59-62; fiscal economist, Exec. Off. of the President, U.S. Bur. Budget, 62-66; economist, Int. Bank Reconstruct. & Develop, 66-67; SR. ECONOMIST, OFF. ASST. SECY. ECON. AFFAIRS, U.S. DEPT. COMMERCE, 67- Econ. Asn. Money and banking. Publ: A capital budget statement for the U.S. government, Brookings, 66; Problems in measuring the value of federal wealth, Am. Statist. Asn, 64; Notes on budget concepts in selected developed countries, In: President's Commission on Budget concepts, 67. Address: Office of the Assistant Secretary for Economic Affairs, U.S. Dept. of Commerce, Washington, D.C. 20230.

COMITAS, DR. LAMBROS, b. New York, N.Y, Sept. 29, 27; m. 52. SOCIAL & CULTURAL ANTHROPOLOGY. A.B, Columbia, 48, fels, Res. Inst. Study Man, 56 & 59-61 & Fulbright, 57-58, Ph.D.(anthrop), 62. Asst. anthrop, COLUMBIA, 56-57, instr, 58-61, asst. prof, 62-64, assoc. prof. anthrop. & ed, 65-68, PROF. ANTHROP. & ED. & DIR. CENTER ED. LATIN AM, 67- Assoc. dir, Res. Inst. Study Man, 62-; dir. training, Peace Corps Unit Jamaica, 62. Consult, div. prog. develop. & oper, Peace Corps, 61-63, div. eval, 62- Contrib. ed, annual, Encyclop. Americana, 63-; Handbook Latin Am. Studies, 65- Mem. soc. sci. cmt, Planned-Parenthood-World Pop, Inc, 64- Sig.C, U.S.A, 46-47. Fel. Anthrop. Asn; fel. Ethnol. Soc; fel. Soc. Appl. Anthrop. Functional analysis of fishing villages; applied anthropology; comparative education Latin America and the Caribbean. Publ: Caribbeana 1900-1965: a topical bibliography, Univ. Washington & London, 68; Education and social stratification in contemporary Bolivia, Trans. N.Y. Acad. Sci, Series II, 29: 935-948; Ethnology: West Indies, In: Handbook of Latin American Studies, 67. Address: Teachers College, Columbia University, New York, N.Y. 10027.

COMITINI, DR. SALVATORE, b. New York, N.Y, Feb. 6, 28; div; c. 2. ECONOMICS. B.S, Alabama, 51, M.S, 55; Ph.D.(econ), Washington (Seattle), 60. Instr. econ, Oregon State, 59-60; anal. statistician, U.S. Bur. Commercial Fisheries, 60-61; asst. prof. ECON, Texas, Arlington, 61-63, assoc. prof, 63-66; Mershon res. fel, Ohio State, 66-67, ASSOC. PROF, 67-68; HAWAII, 68- Ford Found. faculty res. fel. econ. develop, 60; lectr, Catholic Univ, 60-61. Consult, inst. social, govt. & econ. res, Univ. Alaska, 67-68. U.S.M.C, 51-53. Econ. Asn; Economet. Soc; Marine Tech. Soc. Economic development; international economics; economics of development and exploitation of marine resources. Publ: Marine resources exploitation and management in the economic development of Japan, Econ. Develop. & Cultural Change, 7/66; co-auth, A study of production and factor shares in the halibut fishing industry, J. Polit. Econ, 8/67; auth, Economic and legal aspects of Japanese fisheries management and control, Wash. Law Rev, 10/67. Address: Dept. of Economics, University of Hawaii, Honolulu, Hawaii 96822.

COMMINS, PROF. W(ILLIAM) D(OLLARD), b. St. Stephen, N.B, Dec. 7, 99; nat; m. 29; c. 1. PSYCHOLOGY. B.A, St. Joseph's (Can), 21; A.M, Catholic Univ, 22; Ph.D.(psychol), Stanford, 31. Instr. PSYCHOL, St. Louis, 24-29; CATHOLIC UNIV, 31-37, asst. prof, 37-47, assoc. prof, 47-57, PROF, 57- AAAS; fel. Psychol. Asn. Animal learning; personality. Publ: Co-auth, Principles of educational psychology. Address: Dept. of Psychology, Catholic University of America, Washington, D.C. 20017.

COMPTON, DR. ROBERT D, b. San Luis, Colo, Nov. 25, 37; m. 61; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Adams State Col, 63, M.A, 64; Nat. Defense Ed. Act fel, Nebraska, 65-67, Ph.D.(ed. psychol), 67. ASST. PROF. PSYCHOL, ADAMS STATE COL, 67- U.S.A.F, 57-60. Nat. Soc. Col. Teachers Ed. Conditioned response technique for the treatment of chronic enuresis; aversion therapy. Address: Dept. of Psychology, Adams State College, Alamosa, Colo. 81101.

COMPTON, DR. WILSON, Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

COMREY, PROF. ANDREW L(AURENCE), b. Charleston, W.Va, Apr. 14, 23; m. 44; c. 2. PSYCHOLOGY. B.S, Union (N.Y), 43; M.A, Southern California, 47, Ph.D, 49. Asst. prof. PSYCHOL, Illinois, 49-50; Southern California, 50-51; CALIFORNIA, LOS ANGELES, 51-62, PROF, 62- Guggenheim fel, 57-58; Fulbright res. fel, Italy, 57-58; Nat. Sci. Found. sr. fel, 61-62. Consult, res. proj, U.S. Dept. Navy, 51-54. U.S.N.R, 43-46, Lt.(jg). Psychol. Asn; Psychomet. Soc; Psychonomic Soc. Psychometrics; personality measurement; factor analysis. Publ: An operational approach to some problems in psychological measurement, Psychol. Rev. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

CONANT, PROF. F(RANCIS) P(AINE), b. New York, N.Y, Feb. 27, 26; m. 52; c. 2. ANTHROPOLOGY, ETHNOLOGY. B.A, Cornell, 50; Ford Found. fel, Columbia, 57-59, Ph.D.(anthrop), 60. Lectr. ANTHROP, Columbia, 56-57; vis. lectr, Hunter Col, 60; asst. prof, Massachusetts, Amherst, 60-62; assoc. prof, HUNTER COL, 62-65, PROF. & CHMN. DEPT, 66- Asst. prof. & res. anthropologist, proj. culture & ecol. E.Africa, California, Los Angeles, 61-62; Fulbright res. award, Oxford, 68-69. U.S.A, 44-46. Fel. Anthrop. Asn; Ethnol. Soc; fel. African Studies Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Int. African Inst. General anthropology and ethnology, especially linguistics and archaeology. Publ: Dodo of Dass: study of a pagan religion in northern Nigeria; Jarawakin systems of reference and address, a componential comparison, Anthrop. Ling; co-auth, Pagan peoples of Middle Niger region of northern Nigeria. Address: Dept. of Anthropology, Hunter College, New York, N.Y. 10021.

CONANT, PROF. MICHAEL, b. Peoria, Ill, Aug. 9, 24; m. 48. ECONOMICS, LAW. B.Sc, Illinois, 45; A.M, Chicago, 46, Ph.D, 49, J.D, 51. Attorney, Chicago, Ill, 51-54; from asst. prof. to PROF. BUS. ADMIN, CALIFORNIA, BERKELEY, 54- Econ. Asn. Industrial organization; antitrust law; railroad regulations; administrative and commercial law. Publ: Antitrust in the motion picture industry, 60 & Railroad mergers and abandonments, 64, Univ. California; Competition in the farm machinery industry, J. Bus, Univ. Chicago, 1/53. Address: 1227 Queens Rd, Berkeley, Calif. 94708.

CONARD, PROF. JOSEPH WICKERSHAM, Int. Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

CONAWAY, DEAN ORRIN BRYTE, JR, b. Middlebourne, W.Va, Feb. 14, 18; m. 47; c. 2. POLITICAL SCIENCE. B.A, W.Va. Wesleyan Col, 40; M.A, American Univ, 44; Maxwell fel, Syracuse, 46-47, Ph.D.(polit. sci), 50. Info. officer, U.S. Dept. Agr, 41-42, admin. asst, 42-43, agr. historian, 43-46; instr. polit. sci, Syracuse, 46-50; asst. prof. & acting dir. bur. pub. admin, Boston, 50-51; asst. dir, U.S. Dept. Agr. Grad. Sch, 51-57; DEAN, Albany Grad. Prog. Pub. Admin, STATE UNIV. N.Y. ALBANY, 57-62, GRAD. SCH. PUB. AFFAIRS, 62- UN adv, Hebrew Univ, Jerusalem, 55; Int. Coop. Admin. adv, Govt. Pakistan, 59, Ceylon, 62; adv, Irish Inst. Pub. Admin, 67. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; American political institutions; American politics. Publ: Ed, Democracy in federal administration, Legislative-executive relationships in the government of the United States & Administration and race relations. Address: 17 Clarkson Rd, Delmar, N.Y. 12054.

CONDLIFFE, DR. J(OHN) B(ELL), b. Melbourne, Australia, Dec. 23, 91; nat; m. 16; c. 3. INTERNATIONAL ECONOMICS. B.A, Canterbury Univ. Col, N.Z, 12, M.A, 14, Sc.D, 28, Litt.D, 58; Cambridge, 19, Sir Thomas Gresham studentship, 20; LL.D, Occidental Col, 42. Prof. econ, Canterbury Univ. Col, N.Z, 20-26; res. secy, Inst. Pac. Rels, 27-31; prof. econ, Michigan, 30-31; mem. secretariat, League of Nations, 31-37; prof. commerce, London, 37-39; econ, California, 40-58; adv. Nat. Coun. Appl. Econ. Res, New Delhi, 59-60; STAFF SCIENTIST, STANFORD RES. INST, 61- Howland mem. prize, 39; Wendell L. Willkie Prize, 50; Gold Cross, Royal Order Phoenix (Greece), 55. Fel. AAAS; Econ. Asn. History of New Zealand; problems of the Pacific; reconstruction of world trade. Publ: Commerce of nations. Address: 257 Stanford Ave, Berkeley, Calif. 94708.

CONDOIDE, PROF. MIKHAIL, b. St. Petersburg, Russia, Sept. 29, 98; nat; m. 29. ECONOMICS. PROF. ECON, OHIO STATE & BUR. BUS. RES, 55-

Econ. Asn; Statist. Asn. International economic relations; economic history. Publ: The Soviet Financial System; Russian American Trade. Address: 155 W. Beechwold Blvd, Columbus, Ohio 43214.

CONDON, DR. GEORGE ANDREWS, b. Detroit, Mich, June 26, 34. POLITICAL SCIENCE. B.A, Michigan, 56; M.A, Tennessee, 58, Ph.D.(polit. sci.), 62. Instr. polit. sci, Texas Tech. Col, 59-60; acting instr, Washington State, 61-62; Am. Polit. Sci. Asn. Congressional fel. polit. sci, 62-63; asst. prof. POLIT. SCI, WASHINGTON STATE, 63-68, ASSOC. PROF, 68-, DIR. GOVT. STUDIES & SERV, 64- Summers, asst. to U.S. Senator Birch Bayh, 64, res. specialist, Wash. State Asn. County Cmnrs, 65, legis. asst. to Gov. Daniel J. Evans, Wash, 66 & co-staff dir, Nat. Gov. Cmt. Constitutional Revision & Govt. Reorgn, 67-68. Mem. urban affairs cmt, State of Wash, 66, constitutional revision cmt, 67, exec. dir, Wash. Constitutional Revision Cmn, 68. U.S.A.R, 57. Polit. Sci. Asn; Soc. Pub. Admin. State and local politics and administration. Publ: Co-auth, The formation of a coalition in the 1963 Washington State House of Representatives, Res. Studies, 6/66; The executive veto in Washington: a comparison and evaluation, Quorum, fall 66; co-auth, State constitutional revision and governmental reorganization, 1963-1967, Coun. State Govts, 5/68. Address: Division of Governmental Studies & Services, Washington State University, Pullman, Wash. 99163.

CONDOS, DR. APOSTOLOS, b. Volos, Greece, Aug. 13, 35; m. 65; c. 2. ECONOMICS. LL.B, Athens, 58; M.Sc, Iowa State, 62, Ph.D.(econ), 66. Econ. adv, Nat. Planning Inst, Lima, Peru, 63-65; instr. ECON, Iowa State, 65-66; ASST. PROF, DUKE, 66- Prof, N.C. Col, 67-68. Econ. Asn; Economet. Soc; Royal Econ. Soc. Economic planning and theory; statistics; law. Publ: Co-auth, Macroeconomic growth and development models of the Peruvian economy, Johns Hopkins, 66. Address: Dept. of Economics, Duke University, Durham, N.C. 27706.

CONE, VIRGINIA (WILLIAMS), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CONGER, DR. LOUIS H(ERBERT), JR, b. Muskegon, Mich, Mar. 22, 15; m. 44; c. 3. STATISTICS. S.B, Harvard, 37, M.A, 41; Ed.D, Columbia, 51. Instr. math. & physics, Muskegon Community Col, 40-42, 45-48; assoc. & chief bur. statist. serv, State Ed. Dept, N.Y, 53-56; chief estimates & projections, U.S. Off. Ed, 57-62, dir. statist. anal, 57-65; chief ed. statist, U.S. Census Bur, 66-67; CHIEF STATISTICIAN, U.S. BUR. INDIAN AFFAIRS, 67- U.S.A.A.F, 42-45, 1st Lt. Statist. Asn; Pop. Asn; Ed. Res. Asn. Projections of educational statistics; demography. Address: U.S. Bureau of Indian Affairs, Washington, D.C. 20240.

CONKEY, DR. HARLAN D(ON), b. Edmond, Kans, May 1, 34; m. 59; c. 3. AUDIOLOGY. B.S, Kansas, 50, M.S, 61, Ed.D.(counseling), 64; Ore. Col. Ed, 64. AUDIOLOGIST, Univ. Tulsa, 62-64; ORE. COL. ED, 64- Counsr. trainee, Cent. Mo. State Col, summer 64. Consult, Ore. Fairview Hosp, Salem, Salem Pub. Schs, Ore. State Sch. Deaf & Polk County Child Develop. Clin, Dallas, Ore, 64-; Salem Mem. Hosp, 66- U.S.A, 54-56, Sgt. Speech & Hearing Asn; Coun. Except. Children. Deafness; hearing problems of aged; hearing and reading problems. Publ: Co-auth, Articulatory responses of children, J. Speech & Hearing Disorders, 3/63; auth, Behavior considerations of the hard of hearing adult, Audecifel, 9/65; co-auth, The effect of contralateral routing of sound on auditory localization and mobility of a blind person, Except. Children, 4/68. Address: Dept. of Education & Psychology, Oregon College of Education, Monmouth, Ore. 97361.

CONKLIN, EDMUND HOLBROOK, b. Eugene, Ore, Nov. 25, 19; m. 43; c. 2. ENGINEERING PSYCHOLOGY, ANTHROPOLOGY. A.B, Indiana, 42; M.A, Ohio State, 50. Proj. officer psychol, Human Resource Res. Inst, U.S. Air Force, 51-52, res. & develop. staff officer, crew res. lab, Personnel & Training Res. Center, 54-55, asst. chief tech. info. & intel. div, 55-57; sr. adv. ed, Repub. Korea Air Force Command & Staff Col, 58, chief eng, Develop. Eng. Lab, 59-61, dep. chief human eng, human eng. lab, Rome Air Develop. Center, 61-63; eng. psychologist, Bendix Systs. Div, Mich, 63-64; STAFF ENG. PSYCHOLOGIST, McDONNELL DOUGLAS CORP, ST. LOUIS, 64- U.S.A.F, 41-63, Lt. Col. Psychol. Asn; Socio1. Asn; Human Factors Soc. Social Psychology; human engineering; psychological warfare. Address: 1032 Old Towne Dr, University City, Mo. 63132.

CONKLIN, DR. GEORGE T, JR, b. Merrick, N.Y, Dec. 18, 14; m. 58; c. 3. FINANCE, ECONOMICS. A.B, Dartmouth Col, 36, M.C.S, 37; New Sch. Soc. Res, 40-44; Columbia, 42-44; Ph.D.(finance), N.Y. Univ, 43. V.pres, Haas & Conklin, 37-39; sr. v.pres, GUARDIAN LIFE INS. CO, 39-64, EXEC. V.PRES, 64- Adj. prof, N.Y. Univ, 53- U.S.A, 44-46. Econ. Asn; Finance Asn.(pres, 63); Statist. Asn; Asn. Bus. Econ. Investment and corporate financial policy; monetary and debt management. Publ: Direct placements & Corporate bond market, J. Finance; Century of life insurance portfolio management, In: Investment of life insurance funds. Address: Guardian Life Insurance Co, 201 Park Ave. S, New York, N.Y. 10003.

CONKLIN, DR. HAROLD C(OLYER), b. Easton, Pa, Apr. 27, 26; m. 54. ANTHROPOLOGY. A.B, California, Berkeley, 50; Soc. Sci. Res. Coun. fel, Philippines, 52-53; Ford Found. overseas fel, Yale, 53-54, Ph.D.(anthrop), 55. Instr. ANTHROP, Columbia, 54-55, lectr, 55-56, asst. prof, 56-60, assoc. prof, 60-62; PROF, YALE, 62-, chmn. dept, 64-68. Lectr, Rockefeller Inst, 61. Mem. Pac. Sci. Bd, Nat. Acad. Sci-Nat. Res. Coun, 62-66; probs. & policy cmt. & bd. dirs, Soc. Sci. Res. Coun, 64- U.S.A, 44-46. AAAS; fel. Anthrop. Asn.(book. rev. ed, 60-62); Ethnol. Soc; Ling. Soc; Soc. Archaeol; Asn. Asian Studies; N.Y. Acad. Sci; Royal Anthrop. Inst. Gt. Brit. & Ireland. Ethnography; linguistics; Malaysian studies. Publ: Hanunóo agriculture: report on an integral system of shifting cultivation in the Philippines; Lexicographical treatment of folk taxonomies, Int. J. Am. Ling; Ethnography, In: International encyclopedia of the social sciences, vol. 5, 68. Address: Dept. of Anthropology, Yale University, New Haven, Conn. 06520.

CONKLIN, PROF. HOWARD E(MERSON), b. Ischua, N.Y, Jan. 23, 17; m. 40; c. 3. AGRICULTURAL ECONOMICS, STATISTICS. B.S, Cornell, 37, Ph.D. (land econ), 48; M.S, California, 39. Asst. prof. LAND ECON, CORNELL, 48-51, assoc. prof, 51-59, PROF, 59- Vis. prof, Inter-Am. Inst. Agr. Sci, Costa Rica, 55-56. Consult, Food & Agr. Orgn, UN, 55; Coun. Rural Welfare, Venezuela, 59-60. U.S.A, 43-45. AAAS; Farm Econ. Asn; Soc. Am. Foresters. Land classification; farm management; statistical sampling; agricultural resource appraisal and development. Publ: Getting facts for developing land policies in Central America; co-auth, Agricultural regions of New York State, State Univ. N.Y. Col. Agr. Classification Leaflet 8, 64; auth, The family farm and the coming of revolutions, J. Am. Soc. Farm Mgrs. & Rural Appraisers, 66. Address: Dept. of Agricultural Economics, Cornell University, Ithaca, N.Y. 14850.

CONKLIN, DR. J(ACK) E(RVIN), Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

CONKLIN, MAXWELL R(OBERTSON), b. Santa Maria, Calif, Aug. 12, 06; m. 32; c. 2. ECONOMICS, POLITICAL SCIENCE. A.B, California, 28, fel, 28-29. Asst. mgr. div. anal. & res, Fed. Reserve Bank San Francisco, 29-35; asst. chief bus. sect, bd. gov, Fed. Reserve Syst, D.C, 35-41; chief indust. div, U.S. BUR. CENSUS, 41-67, ASST. DIR. ECON, 67- U.S. del, Int. Conf. Indust. Statist, Switz, 51, 58, 60, Chile, 60, Thailand, 61. Fel. AAAS; fel. Statist. Asn. Analysis of economic conditions; measurement of industrial production; development of basic industrial statistics for the United States and other countries. Publ: New federal reserve index of industrial production, Fed. Reserve Bull; Standard industrial classification; co-auth, Manufacturing, In: Government statistics for business use. Address: 4822 Cumberland Ave, Chevy Chase, Md. 20015.

CONKLIN, PROF. PATRICK J(AMES), b. Flint, Mich, Feb. 1, 28; m. 51; c. 5. POLITICAL SCIENCE. A.B, Notre Dame, 49; Wayne State, 49-50; A.M, Michigan, 55, Ph.D.(polit. sci), 58. Asst. prof. polit. sci, Tulsa, 58-62; assoc. prof, Missouri, Columbia, 62-66; PROF. PUB. ADMIN. & EXEC. DEVELOP. PROG, GRAD. SCH. PUB. AFFAIRS, STATE UNIV. N.Y. ALBANY, 66- Am. Polit. Sci. Asn. congressional fel, 60-61. Consult, U.S. Cmn. Civil Rights, Wash, D.C, 66-68; summer consult, U.S. Bur. Budget, Wash, D.C, 66-67. Asst. dir. res, Mo. State Reorgn. Cmn, 64-65; assoc. dir, exec. seminar center, U.S. Civil Serv, 65-66. U.S.A, 50-53, 1st Lt. Polit. Sci. Asn; Soc. Pub. Admin. Public executive development; planning, programming and budgeting; mobility and race in the public service. Publ: Co-auth, Report of Missouri State Reorganization Commission-1965, State of Mo, 65. Address: Graduate School of Public Affairs, State University of New York at Albany, 179 Partridge St, Albany, N.Y. 12203.

CONKLING, DR. EDGAR CLARK, b. Marion, Ind, Mar. 29, 21; m. 52. GEOGRAPHY. B.A, Morehead State Col, 43; M.A, Chicago, 57; M.S, Northwestern, 60, Ph.D.(geog), 62. Export traffic mgr, Signode Int, Ill, 52-58; asst. prof. ECON. GEOG, Kent State, 61-64; ASSOC. PROF, QUEEN'S (ONT), 64- Asn. Am. Geog; Regional Sci. Asn; Inst. Brit. Geog. Diversification of industry; relationships between international trade and economic development; dynamic aspects of land use theory. Publ: A geographical analysis of diversification in South Wales, Northwestern Univ, 62; co-auth, Geography of international trade, Prentice-Hall, 67; Geography of economic activity, McGraw, 68. Address: Dept. of Geography, Queen's University, Kingston, Ont, Can.

CONLEY, DR. ALBERT R(OLLAND), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

CONLEY, GARLAND B, b. Columbia, Mo, Feb. 15, 00; m. 43; c. 4. ECONOMICS. A.B, Missouri, 22, B.S, 23; dipl, Paris, 31; Chicago, 39-40; George Washington, 44-45. Mem. staff, Stevenson-Jordan & Harrison, 36-40; econ. statistician, War Prod. Bd, 41-45; chief prog. & statist. sect, div. statist. & res, War Shipping Admin, 45-46; econ. statistician, off. surv. standards, Nat. Housing Agency, 46-47; TRANSPORTATION ECONOMIST, INTERSTATE COMMERCE CMN, 47- Econ. Asn; Statist. Asn. Transportation and transportation costs, rail, pipeline, water and motor. Address: 3208 Porter St, Washington, D.C. 20008.

CONLIN, JAMES J, S.J, b. Philadelphia, Pa, Jan. 6, 21. SOCIOLOGY. A.B, St. Louis, 46, Ph.L, 47, M.A, 51, Ph.D, 61; S.T.L, Woodstock Col.(Md), 54. Instr, high sch, D.C, 47-50; sociol, Loyola Col.(Md), 55-59, asst. prof, 59-67; fel, Pennsylvania, 67-68; ASSOC. PROF. SOCIOL, SCRANTON, 68- Participant, Int. Conf. Sci. Study Pop, 61. Sociol. Asn; Acad. Polit. & Soc. Sci; Soc. Study Social Probs; Pop. Asn. Factor analytic study of juvenile delinquency; intracity migration and social status; sociology of child development. Publ: Area study of juvenile delinquency: a factor analysis. Address: Dept. of Sociology, University of Scranton, Scranton, Pa. 18510.

CONLON, CHARLES F(RANCIS), JR, b. Providence, R.I, June 3, 10; m. 37. PUBLIC LAW. LL.B, George Washington, 38. Res. dir, FEDN. TAX ADMINSTRS, 39-40, asst. dir, 40-41, EXEC. DIR, 41- Exec. secy, N.Am. Gasoline Tax Conf, 41- Adv, Am. Mission for Aid to Greece, 47-48; revenue & tax admin. consult. U.S.N.R, 42-46, Lt. Soc. Pub. Admin; Int. City Mgrs. Asn. Public finance and administration; intergovernmental tax relationships. Address: 5000 S. Cornell Ave, Chicago, Ill. 60615.

CONLY, DR. GLADYS N, b. Camp Hill, Pa, Aug. 29, 20. ECONOMICS. M.A, Columbia, 43; univ. fel, Wisconsin, 45, 46, Ph.D.(econ), 51. Lectr. econ. & statist, Claremont Col, 47-48; asst, John Randolph Haynes Found, 48-49; mem. statist. div, Int. Labour Off, 50-53; assoc. statistician, UN, 55-63; STATISTICIAN, WHO-PAN AM. HEALTH ORGN, 63- Royal Soc. Trop. Med. & Hyg. Public health statistics; economic development; international comparisons of living costs. Publ: La erradicación de la malaria como factor en la reducción de las defunciones tempranas, Bull. Pan Am. Sanit. Bur, 10/64. Address: World Health Organization, 525 23rd St. N.W, Washington, D.C. 20037.

CONNER, PROF. MAYNARD CALVIN, b. Stuart, Va, Nov. 20, 12; m. 41; c. 1. AGRICULTURAL ECONOMICS. B.S, Virginia, 36; M.S, Va. Polytech, 38; Ph.D, Cornell, 57. Jr. economist farm mgt, bur. agr. econ, U.S. Dept. Agr, 39-41; asst. prof, AGR. ECON, VA. POLYTECH, 46, assoc. prof, 47-57, PROF, 57-, AGR. ECONOMIST, EXP. STA, 46- U.S.M.C, 41-45, Maj. Agr. Econ. Asn. Analysis of operations and costs for dairy plants engaged in the processing and distribution of milk the marketing and pricing problems of

the dairy industry. Publ: Economic analysis of model dairy plants & milk delivery practices, Va. Exp. Sta. Bull. Address: Dept. of Agricultural Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

CONNER, DR. PAUL W(ILLARD), b. Oak Park, Ill, Apr. 16, 37. POLITICAL SCIENCE. B.A, California, Riverside, 59; M.A, Princeton, 61, Ph.D.(polit), 63. Asst. prof. polit. sci, George Washington, 62-63; Int. Sch. Am, 63-64; vis. lectr. POLIT, PRINCETON, 64-65, ASST. PROF, 65- Dir, Int. Honors Prog, 65-67. Polit. Sci. Asn. Eighteenth-century American and English political thought. Publ: Poor Richard's politicks: Benjamin Franklin and his new American order, Oxford Univ, 65; Patriarchy, old world and new, Am. Quart, 65; Maynard unmasked: Oglethorpe and Sharp vs. the press gangs, Proc. Am. Philos. Soc, 8/67. Address: Dept. of Politics, Princeton University, Princeton, N.J. 08540.

CONNERS, DR. C. KEITH, b. Bingham, Utah, Mar. 20, 33; m. 56; c. 1. CLINICAL PSYCHOLOGY. B.A, Chicago, 53; Rhodes scholar & M.A, Oxford, 55; U.S. Pub. Health Serv. fel. & Ph.D, Harvard, 61. U.S. Pub. Health Serv. fel, sch. med, Colorado, 60-61; instr. med. psychol, sch. med, Hopkins, 61-62, asst. prof. pediat. & med. psychol, 62-67; ASST. PROF. PSYCHOL. & ASSOC. PSYCHIAT, MASS. GEN. HOSP, 67- Nat. Inst. Ment. Health grant & co-investr, drugs & cognition, 64-; dir, child develop. lab, Mass. Gen. Hosp, 67- Mem, Nat. Insts. Health psychopharmacol. rev. cmt, 67- Psychol. Asn. Needs for affiliation and response to social influence. Publ: Verbal and visual approach motives as a function of adaptation level; Transfer of information from touch to vision in brain-injured and emotionally disturbed children, J. Nerv. & Ment. Disease, 67; The syndrom of minimal brain dysfunction: psychological aspects, Pediat. Clin. N.Am, 11/67. Address: Dept. of Psychiatry, Massachusetts General Hospital, Boston, Mass. 02114.

CONNERS, DR. J(OHN) EDWARD, b. Brookline, Mass, May 6, 20; m. 43; c. 3. PSYCHOLOGY. B.S, Col. Holy Cross, 43; M.Ed, Boston, 51, D.Ed, 54. Counsr, Am. Epilepsy League, Boston, Mass, 45-46; counseling psychologist, Vet. Admin. Hosp, Framingham, 47-52, Boston, 52-54, Brockton, 54-56, chief counseling psychol. prog, psychiat. rehab, 56-59; res. assoc. community ment. health, sch. pub. health, Harvard, 59, instr, 59-62; PROF. PSYCHOL. & CHMN. DEPT, MASS. STATE COL. BOSTON, 62- Res. consult, State Depts. Ment. Health & Ed, 61-; consult. clin-counseling psychol, Vet. Admin; voc. consult, soc. security disability prog, U.S. Dept. Health, Ed. & Welfare. U.S.M.C, 42-45, Capt. Psychol. Asn; Personnel & Guid. Asn. Rehabilitation of psychiatric patients; epidemiology of emotional disorders of school children and the development of special educational programs in combination with psychiatric treatment for emotionally disturbed children. Publ: Member-employee follow-up and implications for rehabilitation of the psychiatric patient, Personnel & Guid. J; New step in the rehabilitation of the chronic mental patient & Outcome of post-hospital rehabilitative treatment patients as a function of ego strength, J. Counseling Psychol. Address: 16 Country Way, Needham, Mass. 02192.

CONNERY, PROF. ROBERT H(OWE), b. St. Paul, Minn, Oct. 1, 07. POLITICAL SCIENCE. A.B, Minnesota, 29, A.M, 30; fel, Brookings Inst, 32-33; Ph.D, Columbia, 35. Instr, Columbia, 33-39; assoc. prof. polit, Catholic Univ, 39-41; Stanford, 46-48; prof, Illinois, 48-49; polit. sci, Duke, 49-66; PROF. GOVT. & EXEC. DIR. ACAD. POLIT. SCI, COLUMBIA, 66- Dep. City Adminstr, New York City, 65. Assoc. consult, Nat. Resources Bd, 34; cmt. pub. admin, Soc. Sci. Res. Coun, 45; President's Cmt. Admin. Mgt, 36; State Joint Legis. Cmt. Interstate Co-op, N.Y, 37-38; dir, Cmn. Am. Citizenship, 39-41; consult, Hoover Cmn, 48; Bur. Budget, 50; dir. reports, Off. City Adminstr, N.Y, 54-55. U.S.N.R, 42-46, Comdr. Polit. Sci. Asn. Publ: The navy and industrial mobilization in World War II; co-auth, Federal government and metropolitan areas; Forrestal and the navy, Columbia Univ, 62. Address: Dept. of Public Law & Government, Columbia University, New York, N.Y. 10027.

CONNOLLY, DR. DONALD W(ILLIAM), Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

CONNOLLY, DR. WILLIAM E, b. Flint, Mich, Jan. 6, 38; m. 64; c. 1. POLITICAL SCIENCE. B.A, Michigan, 60, M.A, 62, Ph.D.(polit. sci), 65. Asst. prof. polit. sci, Ohio, 65-68, res. grant, 67-68; ASST. PROF. POLIT. SCI, MASSACHUSETTS, AMHERST, 68- Polit. Sci. Asn. Contemporary theory; history of theory; scope of politics. Publ: Political science and ideology, Atherton, 67. Address: Dept. of Political Science, University of Massachusetts, Amherst, Mass. 01003.

CONNOR, PROF. JOHN, b. Glasgow, Scotland, Sept. 3, 34; m. 60; c. 1. ECONOMICS. B.Comm, Dublin, 57, B.A, 58, M.A, 61. ASSOC. PROF. ECON, ACADIA, 59-, EXEC. DIR. UNIV. INST, 64- Dep. prof, Trinity Col.(Dublin), 65-67. Consult, spec. res. cmt, N.S. Med. Soc, 61. Can. Polit. Sci. Asn. Economics of social services; regional socio-economic development. Publ: Musquodoboit River Valley study, 63, Three-five mile plains study, 65 & Yarmouth County study, 65, Acadia Univ. Inst. Address: Dept. of Economics, Acadia University, Wolfville, N.S, Can.

CONNOR, DEAN JOHN V(INCENT), b. Wilmington, Ill, Feb. 6, 01. ECONOMICS. A.B, St. Viator Col, 22; A.M, Catholic Univ, 23, Ph.D, 26. PROF. ECON, LOYOLA (LA), 26-, EMER. DEAN, COL. BUS. ADMIN, 54-, dean, 26-54. Econ. Asn; Acad. Polit. & Soc. Sci. Address: 6363 St. Charles Ave, New Orleans, La. 70118.

CONNOR, DR. LARRY J(EAN), b. North Platte, Nebr, Nov. 7, 34; m. 65; c. 1. AGRICULTURAL ECONOMICS. B.S, Nebraska, 56; M.S, Okla. State, 60, Ph.D.(agr. econ), 64. Agr. economist, agr. res. serv, U.S. Dept. Agr, 56-61; res. asst. agr. econ, Okla. State, 62-64, res. assoc, 64; agr. economist, econ. res. serv, U.S. Dept. Agr, 64-66; ASST. PROF. AGR. ECON, MICH. STATE, 66- U.S.A, 57, Res, 57-64, Capt. Agr. Econ. Asn. Farm management and resource economics, specifically agricultural firm adjustments and resource development. Publ: Dependency of commercial farmers upon nonfarm income, South. Agr. Workers Asn, 60; co-auth, Potential economic and social adjustments in the Southwest, Southwest Soc. Sci. Asn, 64; co-auth, Potential long-run adjustments for Oklahoma Panhandle farms, Okla. Agr. Exp. Sta, 65. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

CONNOR, PROF. RALPH G(ORDON), b. Puyallup, Wash, Jan. 16, 18; m. 54. SOCIOLOGY. B.Sc, Washington (Seattle), 49, M.A, 53, Ph.D.(sociol), 61. Instr. exten, Washington (Seattle), 51-58, assoc, sociol, 56-58; instr. sociol. & chmn. soc. sci. prog, Illinois, 58-60; asst. prof. SOCIOL, EAST. WASH. STATE COL, 60-63, assoc. prof, 63-66, PROF, 66- Res. consult, Wash. State Dept. Health, 63- U.S.A, 41-46, Capt. Sociol. Asn; Soc. Study Soc. Probs. Alcoholism; alcoholics anonymous; self-concepts. Publ: Skid road alcoholic & Attitudes of the parents of alcoholics, moderate drinkers and non-drinkers toward drinking, Quart. J. Studies Alcohol; Self-concepts of alcoholics, In: Society, culture and drinking patterns. Address: Dept. of Sociology, Eastern Washington State College, Cheney, Wash. 99004.

CONNOR, PROF. SEYMOUR V(AUGHAN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CONNOR, DR. WALKER F(RANCIS), b. South Hadley, Mass, June 19, 26; m. 51; c. 3. POLITICAL SCIENCE, INTERNATIONAL POLITICS. B.A, Massachusetts, 51; M.A, Georgetown, 58, Ph.D.(int. rels), 62. Res. archivist, Nat. Arch, 55-56; sr. res. specialist Far East, Dept. Defense, 56-61; ASSOC. PROF. POLIT. SCI, Nasson Col, 61-65; RENSSELAER POLYTECH, 65- Summers, vis. prof, Nat. Defense Ed. Act Inst, Russell Sage Col, 67, vis. lectr, Union Col, 68. Consult, U.S. Dept. Defense, 63. U.S.A, 44-46. Polit. Sci. Asn. Frictions caused by the failure of political borders to coincide with the global distribution of racial and ethnic groups, languages and religions; self-determination movements; contemporary nationalism. Publ: Self-determination: the new phase, World Polit, 10/67; Self-determination, Nichibei Forum, 68; Contemporary nationalism, Rensselaer Rev, 3/68. Address: 804 Dean St, Schenectady, N.Y. 12309.

CONNORS, DR. ROBERT G(LENNON), b. St. Louis, Mo, Jan. 29, 23; m. 48; c. 5. ECONOMICS, FINANCE. B.S.C, St. Louis, 45, M.S.C, 47, Ph.D.(econ, finance), 55. Instr. econ, St. Louis, 46-47, 48-51; instr. econ, Loyola (Ill), 47-48; financial analyst, Ford Div, Ford Motor Co, 51-53, sales planning mgr, paint & chem. prod. plants, 53-55, controller, 55-57; comptroller, Dodge Main Assembly Plant, CHRYSLER CORP, DETROIT, 58, car & truck assembly group, 58-64, mgr. investment anal. dept, corp. finance staff, 64-67, COMPTROLLER, U.S. AUTOMOTIVE MFG. GROUP, 67- Spec. lectr, grad. sch, Detroit, 60-; Indust. Col. Armed Forces, 64-67; inst. labor & indust. rels, Univ. Michigan & Wayne State Univ, 65-67. U.S.A.A.F, 43. Econ. Asn; Nat. Asn. Accts. Monetary theory; economic theory; accounting and philosophy. Address: 1114 Berkshire Rd, Grosse Pointe Park, Mich. 48230.

CONNORS, THEODORE T, b. San Diego, Calif, Dec. 11, 25; m. 57. ECONOMIC GEOGRAPHY, OPERATIONS RESEARCH. A.B, San Diego State Col, 50; M.A, California, Los Angeles, 63. Asst. geog, California, Los Angeles, 53-54; asst. soc. scientist, Rand Corp, 54-55, 56; geog. analyst, Cent. Intel. Agency, 55-56; Asia Found. guest lectr. Eng, Okayama, 56-58; assoc, intel. sect, systs. res. div, Planning Res. Corp, 58-64; PHYS. SCIENTIST, RAND CORP, 64- U.S.A.A.F, 44-45. Asn. Am. Geog; Opers. Res. Soc. Economic and cultural geography of Latin America and Japan; methods of manual and computerized war gaming; operations analysis of tactical air warfare; applications of computerized mapping techniques. Address: Rand Corp, 1700 Main St, Santa Monica, Calif. 90406.

CONOVER, ARTHUR G, b. Freehold, N.J, Feb. 5, 12; m. 36; c. 3. AGRICULTURAL ECONOMICS. A.B, Rutgers, 32; M.A, American Univ, 39. Asst. economist, U.S. Dept. Agr, 41-43; asst. chief econ. sect, War Food Admin, 44-46; econ. statistician, BUR. AGR. ECON, U.S. DEPT. AGR, 46-48, HEAD TOBACCO SECT, ECON. RES. SERV, 48- Econ. adv, Nat. Tobacco Indust; mem. adv. cmt, Secy. Agr, 63-67. U.S. Merchant Marine, 43-44. Farm Econ. Asn; Econ. Asn. Economics of tobacco; agricultural economic policy and prices; participation in congressional hearings on legislation affecting tobacco; long-term projections and forecasts on consumption of tobacco. Address: 4129 Leland St, Chevy Chase, Md. 20015.

CONOVER, DR. DONALD W(ILLIAM), b. Boone, Iowa, May 15, 18; m. 57; c. 1. HUMAN ENGINEERING, EXPERIMENTAL PSYCHOLOGY. B.S, Iowa State Col, 46, M.S, 47; Navy Res. fel, Ohio State, 53, univ. fel. & Ph.D, 55. Instr. psychol, Iowa State Col, 48; res. psychologist human eng, U.S. Navy Electronic Lab, Calif, 48-50, sect. head human eng. group, 50-56; sr. res. engr, Convair Div, Gen. Dynamics Corp, 56-59, design specialist, human factors sect, 59-60, chief human factors, 60-62, staff asst. to mgr. life sci. sect, Astronautics Div, 62-63; staff asst. to mgr. Apollo Prog, Manned Space Craft Center, Tex, 63; group engineer, Convair Div, Gen. Dynamics, 64-66; V.PRES. DEVELOP. RES, MAN FACTORS, INC, 66- Staff scientist, Inst. Defense Anal, D.C, 59. Mem, vision cmt, Armed Forces-Nat. Res. Coun, 51-53. C.Eng, 41-44, 1st Lt. Psychol. Asn; Human Factors Soc.(secy, 57-60; secy treas, 61-62, 67-68); Inst. Aeronaut. & Astronaut; Ord. Asn. Engineering psychology; analysis of man-machine systems; Publ: Co-auth, Human engineering guide for equipment designers, Univ. California 2nd ed, 64; Use of color in coding displays & Selection and training of bio-satellite crews, In: Advances in astronautical sciences, Vol. II. Address: 2819 Maple St, San Diego, Calif. 92104.

CONOYER, PROF. JOHN W(EEDON), b. St. Charles, Mo, Jan. 6, 05; m. 38; c. 3. GEOGRAPHY. A.B, Culver-Stockton Col, 36; M.S, Washington (St. Louis), 41. PROF. GEOG. & CHMN. DEPT, ST. LOUIS, 43-, PROF, CLASSROOM ON WHEELS ANNUAL BUS. TOUR FIELD GEOG, 61- TV prof, series on mod. world in perspective & Russia, Latin America & Anglo-America in perspective. Consult, William H. Sadlier Col. Asn. Am. Geog; Nat. Coun. Geog. Ed. Human geography; regional geography of Africa; geography of commerce. Publ: The geography of Missouri; Better living in today's world; St. Louis, gateway to the West. Address: 18 Blackberry Dr, St. Charles, Mo. 63301.

CONRAD, DR. AGNES, Psychiat, see 10th ed, Phys. & Biol. Vols, deceased 66.

CONRAD, PROF. ALFRED H(ASKELL), b. New York, N.Y, Jan. 2, 24; m. 53; c. 3. ECONOMICS. A.B, Harvard, 47, M.A, 49, Ford Found. fel, 51-52, Ph.D, 54. Economist, bd. gov, Fed. Reserve Syst, 50-51; mem. sr. staff, econ. res. proj, Harvard, 52-59, asst. prof. ECON, 56-59, lectr, 59-61, assoc. prof, 61-66; PROF. & CHMN. DEPT, CITY COL. NEW YORK, 66- Asst. prof, Northwestern, 55-56; Guggenheim Mem. fel. & vis. prof, Netherlands Econ. Inst, 61-62; res. assoc, Nat. Bur. Econ. Res, 68- Consult, joint econ. cmt, U.S. Cong, 59; Cmn. Money & Credit, 59-60; United Res. Corp, 61; Harvard Develop. Adv. Serv. adv, Pakistan, Argentina, Liberia & Ghana, 64-; UN Tech. Assistance Bd. consult, Israel, 66; consult, Int. Bank Reconstruct. & Develop, 66- U.S.A, 43-45. Econmet. Soc; Econ. Asn; Econ. Hist. Asn. Econometrics; economic forecasting and policy; input-output analysis; statistical inference in economic history; econometric models in development planning; technological change. Publ: Co-auth, The economics of slavery and other studies in econometric history, Aldine, 64; co-auth, Influence of research and education on CES production relations, Nat. Bur. Econ. Res, 67; auth, Income growth and structural change, In: American economic history. Address: Dept. of Economics, City College of New York, Convent Ave. at 137th St, New York, N.Y. 10031.

CONRAD, DR. DOROTHY CLIFTON, b. Ky, Oct. 23, 14; m; c. 1. PSYCHOLOGY. A.B, Kentucky, 34; M.A, Ohio State, 35; Ph.D, Illinois, 44. Instr. psychol, Bard Col, 44-47; clin. psychologist, Vet. Admin. Hosp, Framingham, Mass, 47-48, Vet. Admin. Ment. Hyg. Clin, San Francisco, Calif, 48-52; instr, West. Carolina Col, 53-55; dir. psychol. serv, reception center, Commonwealth Ment. Health Center, Phila, 56-57; psychotherapist, Devereux, Pa, 57-60; CLIN. PSYCHOLOGIST, 60- Psychol. Asn. Psychotherapy; small groups. Publ: An empirical study of the concept of psychotherapeutic success; Duration of psychotherapy and therapists successive judgment of patients mental health; Use of the personal pronouns as categories in studying small groups. Address: 307 Overhill Rd, Wayne, Pa. 19087.

CONRAD, PROF. F(REDERICK) A(LLEN), b. Sterling, Ohio, July 26, 85; m. 11; c. 1. SOCIOLOGY. A.B, Goshen Col, 12; A.M, Indiana, 13; S.T.B, Boston, 16; Chicago, 18-20; Ph.D, Stanford, 32. Prof. SOCIOL, Lawrence Col, 20-22; asst. prof, ARIZONA, 22-33, assoc. prof, 33-43, prof. & head dept, 43-57, EMER. PROF, 57- Sociol. Asn; Pop. Asn. Population; urban-rural society; social theory. Address: 2162 E. Edison, Tucson, Ariz. 85719.

CONRAD, DR. HERBERT S(PENCER), b. New York, N.Y, Jan. 7, 04; m. 33; c. 2. EDUCATIONAL RESEARCH. A.B, Columbia, 26; A.M, California, 30, Ph.D.(psychol), 31. Asst, Columbia, 26-28; statistician & res. assoc, inst. child welfare, California, 28-43, asst. prof. ed, 34-38, assoc. prof. psychol, 38-43; mem. war res. proj, Col. Entrance Exam. Bd, 43-45, tech. consult, 45-47; Ed. Testing Serv, 48; dir. res. & statist. serv. br, U.S. OFF. ED, 48-60, coordinator res, div. higher ed, 60-62, prog. develop. officer, bur. ed. res. & develop, 62-65, RES. ADV, BUR. RES, 65- Chief exam. methods & statist. anal. unit, U.S. Civil Serv. Cmn, 45; pres, Psychomet. Corp, 52-55. Consult, Am. Coun. Ed. & Ed. Testing Serv; opers. res. off, Hopkins, 49; expert consult, U.S. Secy. War, 47. Ed, Col. Bd. Rev, 47-48. Asst, New Eng. Ment. Surv. Cmt, 26; mem. expert cmt. standardization int. ed. statist, UNESCO, 51, 58; eval. surv. cmt, pub. adv. bd, Mutual Security Agency, 52. AAAS (v.pres. sect. Q, 64); fel. Psychomet. Soc; Social Health Asn; Nat. Coun. Measurement in Ed. Educational tests and measurements; research methods in education. Publ: Ed, Studies in human development, Appleton, 66; auth, Research in education: directions and misdirections, Teachers Col. Record, 10/62; Clearance of questionnaires with respect to invasion of privacy, public sensitivities, ethical standards, etc, J. Ed. Measurement, 4: 23-28. Address: Bureau of Research, U.S. Office of Education, Washington, D.C. 20202.

CONRAD, DR. JACK RANDOLPH, b. Atlanta, Ga, July 25, 23; m. 48; c. 3. ANTHROPOLOGY. A.B, Emory, 49, M.A, 51; Ph.D.(anthrop), Duke, 54. Community surv. consult, State Dept. Pub. Health, Ga, 52-53, 54-55; asst. prof. ANTHROP, SOUTHWESTERN AT MEMPHIS, 55-57, assoc. prof, 57-61, PROF, 61- Grants, Nat. Sci. Found, 60-61 & 67-69; Rockefeller Found, 66-68; fels, Nat. Inst. Ment Health, California, Berkeley, 63-64, Yale, 65-66. U.S.A.F, 43-46, Res, 46-, Maj. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; fel. Royal Anthrop. Inst. Gt. Brit. Society, culture and personality; anthropology and art; comparative social systems. Publ: The horn and the sword, Dutton, 57, Macgibbon & Kee, 59, Payot, 61; Museum of man; Univ. Wisconsin, 62; The many worlds of man, Crowell, 64, Macmillan, 67. Address: 1751 Forrest Ave, Memphis, Tenn. 38112.

CONRAD, PROF. RICHARD, b. Castrop, Germany, Sept. 27, 17; m. 47; c. 1. SOCIOLOGY. A.B, Harvard, 48; M.A, Stanford, 49, Ph.D.(sociol), 51. Instr. sociol, Stanford, 51-52; res. sociologist, Human Resources Res. Inst, 52-53; ASST. PROF. SOCIOL, West. Carolina Col, 53-55; DREXEL INST, 55- Ford Found. faculty fel, 51-52; instr, Alabama, 52-53. U.S.A, 41-46, Lt. AAAS; Sociol. Asn; Soc. Appl. Anthrop. Industrial and educational sociology; social psychology. Publ: Newspaper images in East and West Germany, Soc. Forces; A systematic analysis of research in the sociology of education, Am. Soc. Rev; co-auth, The use of personal pronouns as categories in the study of small groups, J. Abnorm. & Soc. Psychol. Address: 307 Overhill Rd, Wayne, Pa. 19087.

CONRAD, DR. W(ILLARD) GLENN, b. Rockton, Pa, July 10, 29; m. 55; c. 1. CLINICAL PSYCHOLOGY, SOCIOLOGY. B.A, Pa. State, 52, M.S, 56, U.S. Pub. Health Serv. fel, 57-58, Ph.D.(clin. psychol), 59. Trainee acct, Gen. Elec. Co, N.Y, 52-55; psychol, Vet. Admin. Hosp, Wilkes-Barre, Pa, 56-57; instr. psychol, sch. med, Rochester, 59-63; staff psychologist, SCHENECTADY COUNTY CHILD GUID. CENTER, 63-65, CHIEF PSYCHOLOGIST, 65- N.Y. State Dept. Ment. Hyg. res. grant, 64-68. U.S.A, 46-48. Psychol. Asn. Predicting response to amphetamine therapy in hyperkinetic children; identification of emotional and learning disorders at the kindergarten level; personality development in the pre-school and latency aged child. Publ: Psychological correlates of abnormal electroencephalographic patterns in familial retardates, J. Clin. Psychol, 7/64; co-auth, The development of kindergarten behavior rating scales for the prediction of learning and behavior disorders, Psychol. Schs, 10/67; Anticipating the response to amphetamine therapy in the treatment of hyperkinetic children, Pediatrics, 7/67. Address: Schenectady County Child Guidance Center, 821 Union St, Schenectady, N.Y. 12308.

CONRATH, DR. DAVID W, b. Brooklyn, N.Y, Sept. 6, 34; m. 57; c. 3. BUSINESS ADMINISTRATION, OPERATIONS RESEARCH. A.B, Stanford, 56; Nat. Sci. Found. fel. & M.S, Carnegie Inst. Tech, 62; Ford Found. fel. & M.A, California, Berkeley, 64, Ford Found. fel. & Ph.D.(bus. admin), 65. Res. economist, Space Sci. Lab, California, 63-65; ASST. PROF. INDUST. & OPERS. RES, WHARTON SCH, PENNSYLVANIA, 65- Consult, Midwest Res. Inst, Kansas City, 60-61; Tech. Opers, Inc. 67-; Mathematica, 67-; Comput. Command & Control Corp, 67- Lt, U.S.N, 56-59, Res. Inst. Mgt. Sci; Econ. Asn. Group decision making. Publ: Organizational decisions making behavior under varying conditions of uncertainty, Mgt. Sci, 4/67; Team versus individual decision making: a study of rational behavior, In: Research toward the development of management thought, 67; Budgeting for R&D in the federal government, In: Management action: models of administrative decisions, 68. Address: Dept. of Industry, Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

CONROY, EDWARD G(ALLAGHER), Pub. Admin, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

CONSTANTIN, PROF. JAMES A(LFORD), b. Tulsa, Okla, June 15, 22. BUSINESS ADMINISTRATION. B.B.A, Texas, 43, M.B.A, 44, Ph.D, 50. Instr. bus. admin, Texas, 46-47; asst. prof. finance, Alabama, 47-53; assoc. prof. mkt, OKLAHOMA, 53-57, PROF. MKT. & TRANSPORTATION, 57- Transportation Res. Forum; Soc. Traffic & Transportation; Econ. Asn. Logistics; resources; economic development. Publ: Co-auth, Motor transportation: Ronald, 58; auth, Principles of logistics management, Appleton, 66. Address: Dept. of Marketing, University of Oklahoma, Norman, Okla. 73069.

CONSTAS, DR. HELEN, Sociol, see 10th ed, Soc. & Behav. Vols.

CONVERSE, PROF. PAUL D(ULANEY), b. Morristown, Tenn, Mar. 8, 89; m; c. 2. MARKETING. A.B, Washington & Lee, 13, A.M, 14, LL.D, 44. Instr, Washington & Lee, 12-15; from instr. to prof. & head dept, Pittsburgh, 15-24; from assoc. prof. to PROF. MKT. & head dept, ILLINOIS, URBANA, 24-57, EMER. PROF, 57- Prof, Texas, 59; European Prod. Agency, 59-60; vis. prof, Utah, summer, 61; prof, Oregon, 63. Exam. & spec. expert, Fed. Trade Cmn, 17-19, 34; U.S. Dept. Commerce, 44. Mkt. Asn.(Paul D. Converse award estab, 49); Econ. Asn. General marketing; marketing methods and policies; selling policies. Publ: Trade areas; Marketing history; auth, Elements of marketing, & co-auth 7th ed, 65. Address: 17 Montclair Rd, Urbana, Ill. 61801.

CONVERSE, PROF. PHILIP E(RNEST), b. Concord, N.H, Nov. 17, 28; m. 51; c. 2. SOCIOLOGY, PSYCHOLOGY. B.A, Denison, 49; M.A, Iowa, 50; Paris, 53-54; M.A, Michigan, 56, Ph.D.(soc. psychol), 58. Asst. prof. sociol, MICHIGAN, 60-64, assoc. prof, 64-65, polit. sci, 63-65, PROF. SOCIOL. & POLIT. SCI, 65-, PROG. DIR. SURV. RES. CENTER, 65-, asst. study dir, polit. behav, 56-58, study dir, 58-61, sr. study dir, 61-65; assoc. dir. Inter-Univ. Consortium Polit. Res, 62- Fulbright res. award, 59-60; Soc. Sci. Res. Coun. res. grant, 61-62; Nat. Sci. Found. sr. fel, 67-68. Mem. cmt. govt. & legal processes, Soc. Sci. Res. Coun, 64-67, cmt. comp. polit, 67-; cmt. info. behav. sci, Nat. Acad. Sci, 65- U.S.A, 50-52. Sociol. Asn; Polit. Sci. Asn. Political behavior; social decision making; attitude formation and change; cross-national social research; social stratification; information theory; philosophy of science. Publ: Co-auth, The American voter, 60 & Elections and the political order, 66, Wiley; co-auth, Social psychology: the study of human interaction, Holt, 65. Address: 1312 Cambridge, Ann Arbor, Mich. 48104.

CONWAY, DR. LAWRENCE V, b. Moline, Ill, Apr. 2, 22; m. 49; c. 3. ECONOMICS. B.S, M.S. & Ph.D.(econ), Illinois, 53; scholar, Wisconsin, 51. Asst. prof. statist. & chmn. dept, St. Louis, 53-55; assoc. economist, Am. Med. Asn, 55; V.PRES. ED. DEPT. & DIR. PUBS, AM. SAVINGS & LOAN INST, 55- Lectr, Northwestern, chmn, grad. sch. thesis rev. bd, 57- Econ. consult. U.S.A, 43-46. Econ. Asn; fel. Statist. Asn; Mkt. Asn; Finance Asn; Inst. Mgt. Economic theory; monetary theory; business and economic statistics. Publ: The information revolution—its impact on management; Mortgage lending; Savings and loan accounting. Address: Educational Dept, American Savings & Loan Institute, 221 N. La Salle St, Chicago, Ill. 60601.

CONWAY, DR. M(ARY) MARGARET, b. Terre Haute, Ind, May 14, 35. POLITICAL SCIENCE. B.S, Purdue, 57; Heller grant, Mortar Bd. fel, Int. Rels. fel. & M.A, California, Berkeley, 60; Ph.D.(govt), Indiana, 65. Res. assoc. econ, Stanford Res. Inst, 59-60; legis. intern polit, Ind. Legis. Adv. Cmn, 62-63; lectr. GOVT, MARYLAND, 63-65, ASST. PROF, 65-, Gen. Res. Bd. res. grant, 67. Polit. Sci. Asn. Public policy; political behavior, methodology. Publ: Voter information sources in a non-partisan local election, West. Polit. Quart, 3/68; Party responsibility, In: Empirical studies of Indiana politics, Indiana Univ, 68. Address: Dept. of Government & Politics, University of Maryland, College Park, Md. 20742.

CONWELL, PROF. RALPH E(DWARDS), b. Grand River, Iowa, Feb. 17, 02; m. 26; c. 1. ECONOMICS. A.B, Wyoming, 24, LL.B, 28; A.M, Colorado, 29; N.Y. Univ, 35-36; California, Los Angeles, 36; Chicago, 38 & 52. From instr. to assoc. prof. econ, WYOMING, 25-40, prof, 40-66, head dept. anthrop, econ. & sociol, 30-56, EMER. PROF. ECON, 66- Econ. Asn. Money and banking; consumer economics. Publ: Says a Wyoming economist. Address: Dept. of Anthropology, Economics & Sociology, University of Wyoming, Laramie, Wyo. 82070.

CONYERS, DR. JAMES ERNEST, b. Sumter, S.C, Mar. 6, 32; m. 56; c. 1. SOCIOLOGY. A.B, Morehouse Col, 54; M.A, Atlanta, 58, Ph.D.(sociol), Washington State, 62. Instr. soc. sci, Le Moyne Col.(Tenn), 55-56; asst. prof. SOCIOL, Indiana State, 62-64; ASSOC. PROF, ATLANTA, 64- Atlanta Univ. Corp. res. grants, 66-67. Field reader, bur. res, U.S. Off. Ed, 66-67. Summer consult, Atlanta poverty prog, Emory Univ, 66 & 67. Sociol. Asn. Negro doctorates in sociology; employed mothers; musical tastes of college students; Negro leaders and the poverty question; Negro passing; Negro high

school students in Atlanta. Publ: Employees attitudes toward working mothers, In: Employed mothers in America, Rand McNally, 63; co-auth, Negro passing: to pass or not to pass, Phylon, 63 & Black youth in a Southern metropolis, South. Regional Coun, 1/68. Address: Dept. of Sociology, Atlanta University, Atlanta, Ga. 30314.

COOGAN, DR. JAMES F(RANCIS), b. Everett, Mass, May 7, 18; m. 56; c. 2. ECONOMICS. A.B, Harvard, 42, fel, 49-51, Ph.D, 52. Asst. prof, George Washington, 51-54, assoc. prof, 54-55; investment v.pres, Union Serv. Corp, 55-65; PRES, B.C. MORTON FUND, BOSTON, 65- C.Eng, U.S.A, 42-46. Econ. Asn; Statist. Asn. Soviet economy; securities market. Publ: Bread and the Soviet fiscal system, Rev. Econ. & Statist; Soviet economic growth, Soc. Sci. Address: 12 Whiting Rd, Wellesley Hills, Mass. 02181.

COOK, DR. ALVIN A, b. Chicago, Ill. Dec. 10, 38; m. 64. ECONOMICS, STATISTICS. B.A, Seattle, 61; M.A, Washington (Seattle), 66, Ph.D.(econ), 68. Res. engr, Boeing Co, 62-63; ECONOMIST, RAND CORP, 67- Econ. Asn; Statist. Asn. Analyses of production processes, especially input demands and productivity. Address: Rand Corp, 1700 Main St, Santa Monica, Calif. 90406.

COOK, DR. ARTHUR JOHN DAVID, b. Quillota, Chile, Dec. 15, 18; U.S. citizen; m. 51; c. 2. LABOR ECONOMICS. B.A, Kansas, 42, M.A, 47, Ph.D. (econ), 57. Asst. econ. & human rels, Kansas, 49-51; instr. mgt. develop, Ohio, 53-54, econ. & human rels, 54-55; asst. prof. econ. & mgt, Univ. Kansas City, 55-57; training dir, paper div, W.R. Grace & Co, 57-60; ASSOC. PROF. econ. & mgt, Fairleigh Dickinson, 60-62; MGT, TEMPLE, 62- Prof, Syracuse Univ-U.S. Agency Int. Develop. Proj, Sch. Admin. & Finance, 65-66. Sig.C, 42-46, Sgt. Latin Am. Studies Asn; Indust. Rels. Res. Asn. Management organization and development in underdeveloped countries, particularly South America. Publ: Economic growth and the Alliance for Progress, 6/63 & American labor economics in perspective, 6/67, Econ. & Bus. Bull, Temple; Personnel practices in a developing area, Personnel J, 5/67. Address: Dept. of Management, School of Business Administration, Temple University, Philadelphia, Pa. 19122.

COOK, DR. BEVERLY BLAIR, b. Chicago, Ill, Dec. 10, 26; m. 66; c. 8. POLITICAL SCIENCE. B.A, Wellesley Col, 48; M.A, Wisconsin, 49; Ford Found. fel. & Ph.D.(polit. sci), Claremont Grad. Sch, 62. Instr. POLIT. SCI, Iowa State, 49-50; asst. prof, Calif. State Col. Fullerton, 62-66; LECTR, WISCONSIN-MILWAUKEE, 67- Participant, summer conf. math. in polit. sci, Nat. Sci. Found, 66; Am. Philos. Soc. res. grant, 67. Polit. Sci. Asn. Judicial process in urban courts and inferior federal courts; comparative judicial systems in appellate courts. Publ: The judicial process in California, Dickenson, 67. Address: Dept. of Political Science, University of Wisconsin-Milwaukee, Milwaukee, Wis. 53201.

COOK, PROF. DESMOND LAWRENCE, b. Cleveland, Ohio, Sept. 5, 20; m. 46; c. 2. PSYCHOLOGY. B.A, Ohio, 47, M.A, 48; Ph.D, Iowa, 55. Asst, exten. div, Ohio, 47; from asst. to assoc. prof. psychol, Ark. State Col, 48-52; asst. ed, exam. serv, Iowa, 52-54, asst. dir, 54-55, assoc. dir, 55-56; asst. prof. ed. psychol, Purdue, 56-60, assoc. prof, 60-62; assoc. prof. ED, bur. ed. res. & serv, OHIO STATE, 62-64, PROF, 64-65, sch. ed, 65-68, COL. ED, 68- Vis. prof, Nebraska, 61; Illinois, summer 66; consult, U.S. Off. Ed, 66-U.S.A, 42-45, 50-58, Capt. Psychol. Asn; Nat. Coun. Measurement in Ed; Ed. Res. Asn. Educational psychology and measurement; research management. Publ: PERT: applications in educations, U.S. Off. Ed, 66; A note on relevance categories and item statistics, Ed. & Psychol. Measurement; Teaching machine terms: a glossary, Audiovisual Instr. Address: College of Education, Ohio State University, Columbus, Ohio 43210.

COOK, DR. EDGAR MARION, b. Beaumont, Ga, July 16, 97; m. 24; c. 2. PSYCHOLOGY. B.A, Carson-Newman Col, 23; M.A, George Peabody Col, 28, Ph.D.(psychol), 36. Prin, high sch, Tenn, 23-31; instr. PSYCHOL. & ED, Tenn. Polytech, 31-33; assoc. prof, CARSON-NEWMAN COL, 34-39, PROF, 39-, EMER. DEAN, 62-, dean men, 34-57, acad. dean, 57-62. U.S.A, 17-19. Fel. AAAS; fel. Psychol. Asn. Learning, individual differences; educational tests and measurements. Address: Dept. of Psychology, Carson-Newman College, Jefferson City, Tenn. 37760.

COOK, PROF. EDWARD J(OSEPH), b. Brooklyn, N.Y, July 8, 25; m. 51; c. 2. ECONOMICS. B.S, Fordham, 49, Ph.D, 58; M.A, Columbia, 50. Assoc. prof. econ. & chmn. dept, sch. bus, Fordham, 50-62; St. John's (N.Y), 62-64; PROF. ECON. & DIR. DIV. BUS. ADMIN, C.W. POST COL, LONG ISLAND, 64- Consult, U.S. Navy Ship's Store Off, 59- U.S.A, 43-45. Econ. Asn. Business economics; macro-economics. Publ: The cost of living as a criterion in wage adjustment; Commercial bank failures in New York State, 1930-1940; co-auth, Adoption of the marketing concept, Sales Exec. Club, 67. Address: Dept. of Economics, C.W. Post College, Long Island University, Greenvale, N.Y. 11548.

COOK, DR. EDWIN AUBREY, b. Honolulu, Hawaii, Sept. 7, 32; m. 55; c. 2. ANTHROPOLOGY. A.B, Arizona, 59; Ph.D.(anthrop), Yale, 67. ASST. PROF. ANTHROP, Hawaii, 65-67, mem. Res. Coun, 65-66; CALIFORNIA, DAVIS, 67- U.S.N, 51-54. Am. Anthrop. Asn; Am. Ethnol. Soc; Polynesian Soc; Royal Anthrop. Inst. Gt. Brit. & Ireland. Kinship; social structure; psychological anthropology; language and culture. Publ: Cultural flexibility: myth and reality, Anthropos, 66; A preliminary statement of Narak Spatial Diexis, Anthrop. Ling, 67; Narak: language or dialect, J. Polynesian Soc, 67. Address: Dept. of Anthropology, University of California, Davis, Calif. 95616.

COOK, DR. ELLSWORTH B(ARRETT), Pharmacol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

COOK, PROF. FRANKLIN H(ENRY), b. Vicksburg, Pa, Apr. 9, 11; m. 58; c. 1. GOVERNMENT. A.B, Bucknell, 33; LL.B, Duke, 36; M.A, Pa. State, 40. Instr. acct. & bus. law, PA. STATE, 37-42, asst. prof. BUS. LAW, 42-47, assoc. prof, 47-54, PROF, 54- Summers, law clerk, Knight & Kivok, 33-37, cost acct, Armstrong Cork Co, 37, vis. assoc. prof, California, 48. U.S.A, 43-46, Sgt. Econ. Asn. Analysis of electric power industry from 1939 to present. Publ: Business and the federal law; Analysis of the electric power industry in the United States, Bur. Bus. Res, Pa. State Univ, 63; The sale as a test of income realization, Acct. Rev. Address: 325 W. Park Ave, State College, Pa. 16801.

COOK, DR. HARRY L, b. Portland, Ore, Dec. 15, 19; m. 51; c. 2. ECONOMICS. B.A, Southern California, 48; Ph.D.(econ), Claremont Grad. Sch, 61. Asst. prof. ECON, Whittier Col, 59-66; ASSOC. PROF, SOUTH. ORE. COL, 66- Haynes Found. fel, 62; Ford Found. faculty fel, 64. U.S.A, 44-46. Econ. Asn; Finance Asn; Regional Sci. Asn. Money and banking; public finance; underdevelopment economics; international finance and trade. Address: Dept. of Economics, Social Sciences Bldg, Southern Oregon College, Ashland, Ore. 97520.

COOK, PROF. H(ERBERT) C(LAIRE), b. Durango, Iowa, Aug. 30, 93; m. 22; c. 3. GOVERNMENT. A.B, Iowa State Teachers Col, 22; A.M, Iowa, 25, Ph.D, 26. Prof. polit. sci. & head dept, Miss. State Col. Women, 26-27; asst. prof. soc. sci, Iowa State Teachers Col, 27-28; asst. prof. GOVT, IOWA STATE, 28-32, assoc. prof, 32-58, PROF, 58- Polit. Sci. Asn; Soc. Pub. Admin. Public administration; administrative functions of the superintendent of public instruction in Iowa. Collab, An evaluation of Iowa County government, Welfare and highway function of Iowa counties & A survey study of Mahaska (Iowa) County government with recommendations for reorganization. Address: Dept. of History & Government, Iowa State University, Ames, Iowa 50010.

COOK, HOWARD A(LEXANDER), b. New Rochelle, N.Y, Apr. 4, 15; m. 42; c. 5. POLITICAL SCIENCE. B.S, Harvard Col, 37; M.A, Stanford, 47. Asst. dir, World Affairs Coun. North. Calif, 48, dir, 49-52; chief div. pub. liaison, U.S. Dept. State, 52-55; PRES, INT. HOUSE, 55- Mem. Coun. For. Rels, 55-; youth activities cmt, White House Conf. Int. Coop, 65. U.S.A.A.F, 41-45, Maj. Asn. For. Student Adv. (pres, 62-63). Public opinion; adult education in foreign affairs; international exchange of persons. Address: International House, 500 Riverside Dr, New York, N.Y. 10027.

COOK, DR. HUGH L, b. Prattville, Ala, Dec. 6, 11; m. 37; c. 6. AGRICULTURAL MARKETING, ECONOMIC DEVELOPMENT. A.B, Piedmont Col, 35; B.S, Auburn, 40, M.S, 42; Ph.D.(agr. econ), Wisconsin, 49. Jr. mgt. pool, U.S. Steel Corp, 42-43; AGR. ECONOMIST, War Food Admin, 43-45; U.S. Bur. Agr. Econ, 45-49, WISCONSIN, 49-64, PROF. AGR. ECON, 64- Agr. economist, Agency Int. Develop, 57-58; Coun. of Rural Comfort, 60. Consult, Vendo Corp, Kans, 54-56; East. Milk Producers Asn, 56, 59; World Bank, 60- Mem, Int. Conf. Agr. Econ. Econ. Asn; Agr. Econ. Asn. Agricultural market structures, especially for dairy products; international development. Publ: Consequences of structural change in the ice cream industry, Wis. Res. Bull; Irish dairy industry organization, Dept. Agr. & Fisheries, Dublin, 68; Some structural characteristics of the Venezuelan milk industry, J. Farm Econ, 2/65. Address: 316 Agriculture Hall, University of Wisconsin, Madison, Wis. 53706.

COOK, PROF. JAY DEARDORFF, JR, b. Chester, Pa, Apr. 26, 21; m. 46; c. 2. ACCOUNTING, FINANCE. B.A, Washington & Lee, 43; M.B.A, Pennsylvania, 48; Ph.D.(mkt), Ohio State, 56. Instr. econ, Denison, 48-51, asst. prof, 51-53; assoc. prof. ACCT, WASHINGTON & LEE, 53-56, PROF. & HEAD DEPT, 56- Summers, consult, Shenandoah Life Ins. Co, 56-59, mem, Ford Found. Seminar Acct. Probs, 60. U.S.M.C, 43-46, Capt. Acct. Asn; Econ. Asn. Accounting theory; corporation finance. Address: Dept. of Accounting, School of Commerce, Washington & Lee University, Lexington, Va. 24450.

COOK, PROF. JOHN OLIVER, b. Gilmore, Idaho, Mar. 10, 16; m. 54; c. 2. PSYCHOLOGY. B.A, Chicago, 38; M.A, Iowa, 39; Ph.D.(psychol), N.Y. Univ, 54. Instr. Eng, Iowa, 41-42; Amherst Col, 46-47; psychol, N.Y. Univ, 48-54, asst. psychol. res. center, 51-53; res. psychologist, maintenance lab, Air Force Personnel Training Res. Center, Ill, 54-56; lectr, Aberdeen, 56-57; from asst. prof. to assoc. prof. PSYCHOL, N.C. STATE, 57-64, PROF, 64-U.S.A.A.F, 43-45. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc; Philos. Sci. Asn. Psychology of learning; methodological problems in psychology; psychology of language. Publ: Response analysis in paired associate learning experiments, In: Student response in programmed instruction, Nat. Acad. Sci, 61; A gradient theory of multiple-choice learning, Psychol. Rev, 53; co-auth, Choice of delay of inevitable shock, J. Abnorm. & Soc. Psychol, 64. Address: Dept. of Psychology, North Carolina State University, Raleigh, N.C. 27607.

COOK, J(OHN) SYDNEY, JR, b. Union Springs, Ala, Jan. 24, 17: m. 48; c. 4. ECONOMICS. B.S, Auburn, 39; LL.B, Alabama, 47, Ford Found. summer grants, N.Y. Univ, 57 & 59-60, LL.M, 60. Asst. prof. ECON. & BUS. ADMIN, Auburn, 48-66; PROF. LECTR, UNIV. VIRGINIA CENTER, 66- U.S.A, 40-45, Capt. Business and law. Publ: Co-auth, Workbook in business law & Workbook in business law II. Address: University of Virginia Center, Abingdon, Va. 24210.

COOK, DR. KENNETH G(RAHAM), b. Philadelphia, Pa, Aug. 21, 31; m. 55; c. 2. PSYCHOLOGY. B.S, Pa. State, 54, M.S, 55; Ph.D.(psychol), American Univ, 67. Personnel asst, Chrysler Corp, Mich, summer 55; surv. res. specialist, personnel mgt. br, Adj. Gen. Off, U.S. Army, 56-57, statist. res. assoc, personnel res. br, 57-59; res. assoc. CENTURY RES. CORP, 59-62, V.PRES, 62- U.S.A, 55-57. AAAS; Psychol. Asn; Human Factors Soc. Experimental and research design; safety research; human factors in military intelligence systems; personnel tests and measures; attitude and opinion research. Publ: Co-auth, Pilot judgments of simulated collisions and near misses, J. Appl. Psychol, 61, Aircraft exterior lights for preventing mid-air collisions, Illum. Eng, 62 & Flight simulator test of an altitude-coded aircraft light, J. Eng. Psychol, 63. Address: 6542 N. 35th Rd, Arlington, Va. 22213.

COOK, DR. LLOYD ALLEN, b. Marietta, Ind, Apr. 15, 99. EDUCATIONAL SOCIOLOGY. A.B, Franklin Col, 22; Chicago, 24-26, fel, 26-27; Ph.D, Ohio State, 32. Assoc. prof. sociol, Kans. State Teachers Col, 27-30; asst, Ohio State, 30-32, instr, 32-34, asst. prof, 34-38, assoc. prof. sociol. & ed, 38-43, prof, 43-46; prof. & chmn. dept, WAYNE STATE, 46-50, Franklin prof, 50-57, acting dean acad. admin, 53-54, v.pres. of instr. & res, 56-57, dean grad. div. & v.pres, 57-59, EMER. V.PRES, 60- Dir, Ogden Park & Com-

munity Center, Chicago, Ill, 25-26, investr, Dept. Pub. Welfare, 26; dir. int. day inst, Wilberforce, 30- Consult, Kellogg Found; Detroit Citizenship Study; Hogg Found; Ed. Policies Cmn; Nat. Conf. Christians & Jews; Ohio Family Life Conf. Mem. cmt. coop. teacher training, N.Cent. Asn. Cols. & Sec. Schs, 38-; chmn. local area, White House Conf. Child Health & Protection, Kans, 28; mem. Conf. Family Rels; Nat. Coun. Soc. Studies. Sociol. Asn; Asn. Adv. Colored People. Community backgrounds of education; school curriculums; community action and the school. Publ: Sociological approach to education; Intergroup education; School problems in human relations. Address: P.O. Box 69, Union, Wash. 98592.

COOK, PROF. LORNE D, Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

COOK, PRES. PAUL W(EST), JR, b. Evanston, Ill, Nov. 7, 26; m. 50; c. 3. ECONOMICS. A.B, Brown, 48; Ph.D.(econ), Chicago, 52; LL.D, Butler, 67. Instr. econ, Northwestern, 50-51; econ. analyst, Standard Oil Co.(Ind), 52; asst. prof. bus. econ, Chicago, 53-55; bus. admin, Harvard, 55-66; PRES, WABASH COL, 66- Ind. rep, Ed. Cmn. of States, 67. Econ. Asn. Anti-trust; government and business; business policy. Publ: Ed, Cases in anti-trust policy, Holt, 61; co-auth, Problems of corporate power, Irwin, 66. Address: Wabash College, 301 W. Wabash Ave, Crawfordsville, Ind. 47933.

COOK, LT. COL. RICHARD A(RTHUR), U.S.A, b. St. Louis, Mo, Aug. 10, 22; m. 47; c. 3. PSYCHOLOGY. A.B, Missouri, 46; Ph.D.(psychol), Washington (St. Louis), 52. U.S. ARMY, 51-, chief clin. psychologist, Tokyo Army Hosp, Japan, 54-57, U.S. Disciplinary Barracks, Ft. Leavenworth, Kans, 57-61, clin. psychologist, LETTERMAN GEN. HOSP, 61-67, CHIEF PSYCHOL. SERV, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 65. U.S.A.A.F, 43-45. Psychol. Asn. Programmed instruction; assessment of organic deficit; use of operant condition in behavior modification; learning disabilities of children. Publ: Indentification and ego defensiveness in thematic apperception, J. Proj. Tech; Verbal and performance IQ discrepancies on the Wechsler Adult Intelligence Scale and Wechsler-Bellevue, Form I, J. Clin. Psychol. Address: 71 Duran Dr, San Rafael, Calif. 94903.

COOK, PROF. ROBERT GRANT, b. New Britain, Conn, Dec. 5, 21; m. 61. BUSINESS ADMINISTRATION. B.S, Rhode Island, 49, M.S, 51; D.B.A, Indiana, 58. Time & motion study analyst indust. eng, Taunton-New Bedford Div, Revere Copper & Brass, Inc, 40-42; sr. indust. engr, Bendix Radio & Commun. Div, Bendix Aviation Corp, 51-52; field instr. data processing & computers, Int. Bus. Mach. Corp, 52-53; teaching assoc. mgt, Indiana, 53-54, faculty lectr, 54-56; assoc. prof. prod. mgt, Air Force Inst. Tech, 56-58; MGT, MISSOURI, 58-65, PROF, 65-, ASST. DIR. RES. ADMIN, GRAD. SCH, 67-, campus coordinator Whiteman-Air Force Grad. Prog. in Bus, 63-67. Ford Found. fel, Carnegie Inst. Tech, 60 & Kansas, summer 63. Consult, Reid Mem. Hosp. & Sch. Nursing, Richmond, Ind, 56. U.S.M.C, 42-45; U.S.A.R, 49-53, 2nd Lt. Acad. Mgt; Soc. Adv. Mgt; Econ. Asn. Production management; industrial engineering and management; systems analysis for the administration of college and universities. Publ: Contrib, Organization study, In: Critical incidents in management, Irwin, 63; co-auth, Operations analysis for the business manager, Bus. & Govt. Rev, 9-10/67. Address: 2700 Bayonne Court, Columbia, Mo. 65201.

COOK, ROY C, b. Wolf Mountain, N.C, Jan. 8, 09; m. 35; c. 2. ECONOMICS, LAW. A.B, South Carolina, 31; A.M, George Washington, 41; LL.B, Georgetown, 49, J.D, 67. Economist, Nat. Recovery Admin, 33-36; Nat. Resources Cmt, 36; U.S. Bur. Labor Statist, 36-37; Nat. Bituminous Coal Cmn, 37-38; BUS. ECONOMIST, ANTITRUST DIV, U.S. DEPT. JUSTICE, 38- Econ. Asn. Industrial organization; industry studies; labor economics. Publ: Control of the petroleum industry by major oil companies; co-auth, The newsprint industry, 5/58 & Book and magazine paper, 5/59, U.S. Govt. Printing Off. Address: 3370 Highwood Dr. S.E, Washington, D.C. 20020.

COOK, PROF. RUTH COOPER, b. U.S, May 7, 21; m. 61. CHILD PSYCHOLOGY, FAMILY RELATIONS. B.S, Chicago, 42, M.S, 44, Ph.D.(human develop), 57. Asst. human develop, Chicago, 44-47, instr, 47-51; asst. prof. child develop, Illinois, 51-53; CHILD DEVELOP. & FAMILY LIFE, MISSOURI, COLUMBIA, 55-57, assoc. prof, 57-59, PROF, 59- Psychol. Asn; Soc. Res. Child Develop; Nat. Coun. Family Rels. Personality and character development. Publ: Co-auth, Psychology of character development. Address: 2700 Bayonne Court, Columbia, Mo. 65201.

COOK, DR. SAMUEL DuBOIS, b. Griffin, Ga, Nov. 21, 28. POLITICAL SCIENCE. A.B, Morehouse Col, 48; univ. scholar, Ohio State, 49-50, A.M, 50, Whitney Found. fel, 52-53, Ph.D, 54. Assoc. prof. POLIT. SCI, Southern Univ, 55-56; assoc. prof. & head dept, Atlanta, 56-66; ASSOC. PROF, DUKE, 66- Rockefeller fel, 58-59. Vis. prof, Illinois, 62-63; California, Los Angeles, summer, 66. Consult, White House Conf. To Fulfill These Rights, 65-66; U.S. Off. Ed, 66- U.S.A, 53-55. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Political philosophy. Publ: Liberal democracy and social control, Am. Polit. Sci. Rev; Is a Christian grounding of democracy necessary, J. Relig. Thought; Tragic conception of Negro history, J. Negro Hist. Address: Dept. of Political Science, Duke University, Durham, N.C. 27706.

COOK, PROF. STUART WELLFORD, b. Richmond, Va, Apr. 17, 13; m. 38; c. 4. PSYCHOLOGY. A.B, Richmond, 34, A.M, 35; Ph.D.(psychol), Minnesota, 38. Lab. asst. psychol, Richmond, 34-35; asst, Minnesota, 35-38, instr, psychol. & clin. psychologist, 38-41; head, Bur. Psychol. Serv, 41-42; dir. res. center human rels, New Sch. Soc. Res, 48-49; dir. res. center human rels, N.Y. Univ, 49-56, head dept. psychol, grad. sch. arts & sci, 49-63; PROF. PSYCHOL. & HEAD DEPT, COLORADO, 63- Mem. nat. adv. cmt, John F. Kennedy Center Res. Ed. & Human Develop, 66. U.S.A.A.F, 42-46. AAAS; fel. Psychol. Asn. Attitude measurement; intergroup relations; conformity behavior. Publ: Co-auth, Research methods in social relations & Human relations in interracial housing; ed, Psychological research in radar observer training. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

COOK, DR. THOMAS I(RA) b. Suffolk, Eng, Mar. 31, 07. POLITICAL SCIENCE. B.Sc, London, 28; Ph.D, Columbia, 37. Asst. prof. POLIT. SCI, California, Los Angeles, 36-39; assoc. prof, Washington (Seattle), 39-47, prof, 47-49; vis. prof, Hopkins, 49-50, prof, 50-66, chmn. dept, 61-66; H.Y. BENEDICT PROF, TEXAS, EL PASO, 66- Vis. prof, Chicago, 48-49. Polit. Sci. Asn. Political theory; history of political philosophy; modern democracy. Publ: History of political thought from Plato to Burke; co-auth, Power through purpose. Address: Dept. of Political Science, University of Texas at El Paso, El Paso, Tex. 79999.

COOK, PROF. WALTER WELLMAN, Ed. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

COOK, DR. WARREN L(AWRENCE), Latin Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COOK, DR. WILLIAM E(RLAND), b. Minn, Nov. 12, 22; m. 46; c. 2. PSYCHOLOGY. B.A, Minnesota, 48; M.S, North Dakota, 49, Ph.D.(psychol), 52; Iowa, 49-50. Instr. psychol. & ed, East. Wash. Col. Ed, 50-51; asst. prof. psychol, Richmond Prfnl. Inst, Col. William & Mary, 52-54; supv. psychologist, State Hosp, Alton, Ill, 54-63. Psychol. Asn. Psychotherapy; learning theory; research methodology. Publ: A study of anxiety and conditioning; A study of anxiety in the Minnesota multiphasic personality inventory, Va. J. Sci; co-auth, Proficiency in drawing and placement of hands in drawing of the human figure, J. Consult. Psychol. Address: 527 N. Galbraith, Blue Earth, Minn. 56013.

COOK, WILLIAM H, Math. Statist, see 11th ed. Phys. & Biol. Vols.

COOK, WILLIAM J(AMES), b. Ft. Smith, Ark, Mar. 7, 25; m. 46; c. 4. POLITICAL SCIENCE. B.S, U.S. Naval Acad, 46; S.T.B, Boston, 52; Northwestern, 59-60. Pastor, First Methodist Church, Franklin, Mass, 51-53, Medford, 53-56; nat. field dir, Coun. Relig. & Int. Affairs, 56-68; ED. CONSULT. TO PRES, KRITCHEVER CORP, 68- U.S.N, 46-49, Lt.(jg). Polit. Sci. Asn; Adult Ed. Asn. Ethics and United States foreign policy; United States public and foreign policy processes; Christian ethics. Publ: Political aspects of power, Peace & Power; Education toward changing social environment, Adult Ed; Christian social and political thought on nuclear warfare: a Protestant and summary. Address: Kritchever Corp, 1836 Stanley St, Northbrook, Ill. 60062.

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COOKE, DR. DENNIS H(ARGROVE), b. Maiden, N.C, Feb. 23, 04; m. 25; c. 2. PSYCHOLOGY. A.B, Duke, 25, A.M, 28; Ph.D.(ed. admin. & psychol), George Peabody Col, 30. Assoc. prof. ed. admin, George Peabody Col, 30-32, prof, 32-40, head dept, 40-46; pres, E.Carolina Teachers Col, 46-47; HIGH POINT COL, 49-59, DIR. TEACHER ED, 59- N.C. del, White House Conf. Ed, 55. Educational administration and statistics; teaching personnel. Publ: Minimum essentials of statistics as applied to education and psychology; administering the teaching personnel; Principles of school administration. Address: Dept. of Education, High Point College, High Point, N.C. 27262.

COOKE, DOROTHY ST. JOHN, b. Chicago, Ill, Aug. 2, 06; m. 33; c. 2. ECONOMICS, STATISTICS. Ph.B, Chicago, 38; M.S, Iowa State Col, 46; Michigan, 49. Field analyst, price div, Off. Price Admin, 41-42; economist, Smaller War Plants Corp, 42-44; res. assoc. & instr, Iowa State Col, 44-50; training officer statist, off. coordinator int. statist, Bur. Census, 51-53; statistician, Ord. Eng. Corp, 53-54; ed, 'Estadistica,' Inter Am. Statist, Inst, Pan Am. Union, 54-58; statist. adv. govt. Pakistan, 58-62; Govt. Jordon, 62-63; CHIEF training br, off. inst. statist, Bur. Census, 63-66; INT. RES. BR, NAT. CENTER HEALTH STATIST, U.S. PUB. HEALTH SERV, 66- Mem. staff, statist. br, Int. Labour Orgn, 64-65. Statist. Asn; Pop. Asn; Int. Union Sci. Study Pop. Consumption economics; survey and demographic statistics. Address: Room 3058, South Bldg, National Center for Health Statistics, U.S. Public Health Service, Washington, D.C. 20201.

COOKE, PROF. GILBERT W(ILLIAM), b. Hammond, Minn, Dec. 4, 99; m. 26; c. 6. BUSINESS ADMINISTRATION, ECONOMICS. B.S, Minnesota, 23, M.A, 26; Ph.D.(econ, finance), Wisconsin, 36. Instr. polit. sci, Pittsburgh, 29-33; asst. prof. econ, North Dakota, 34-37; bus. admin, BOWLING GREEN STATE, 37-39, assoc. prof, 39-48, PROF, 48-67, FINANCE, 67- Legis. asst, Wisconsin, 34; Joint Cmt. Ed. fel, 54. Econ. Asn; Polit. Sci. Asn; Finance Asn. Business finance, investments, fluctuations and national income; public finance. Publ: Co-auth, Financial institutions, 62 & auth, The stock market, 64, Simmons Boardman, rev. ed, Schenkman, 68; co-auth, Business Financial Management, Houghton, 67. Address: 27 Ranch Court, Bowling Green, Ohio 43402.

COOKE, PROF. HELEN J. (MELLON), b. Dec. 2, 13; m. 41; c. 2. ECONOMICS. B.A, Brooklyn Col, 35; M.A, Columbia, 36, Ph.D, 41. Econ. analyst int. rels, Nat. Indust. Conf. Bd, 40-43; economist & ed, Economet. Inst, 44-45; economist, Amos Parrish & Co, 45-46; treas. financing, Fed. Reserve Bank N.Y, 46-54; assoc. prof. ECON, RUTGERS, 54-62, PROF, 62-, CHMN. DEPT, NEWARK COL. ARTS & SCI, 62- Econ. Asn; Statist. Asn; Finance Asn. Money and banking; treasure financing, fiscal policy and debt management; business fluctuations. Publ: The role of debt in the economy; British postwar planning; co-auth, The treasury and the money market. Address: 35 Woodmont Rd, Upper Montclair, N.J. 07043.

COOKE, PROF. ROBERT J, Am. Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COOKE, RONALD CHARLES, Econ, see 10th ed, Soc. & Behav. Vols.

COOKER, DR. HARRY S(IDNEY), b. Gloversville, N.Y, May 9, 30; m. 57; c. 1. SPEECH PATHOLOGY, AUDIOLOGY. A.B, State Univ. N.Y. Albany, 57; fel,

Iowa, 58-61, M.A, 61, Ph.D.(speech path), 63. Res. assoc. speech path, Iowa, 61-62; asst. prof. SPEECH SCI, CONNECTICUT, 63-68, ASSOC. PROF, 68- U.S.A.F, 49-52. AAAS; Acoustical Soc; Speech & Hearing Asn. Speech physiology, especially investigation of articulatory movements; human communication. Publ: Co-auth, A disfluency index, J. Speech & Hearing Diseases, 64; Perceived nasality in the speech of the deaf, J. Speech & Hearing Res, 68. Address: Dept. of Speech, Box U-85, University of Connecticut, Storrs, Conn. 06268.

COOL, DR. JOHN COLE, b. Massillon, Ohio, Nov. 7, 26; m. 52. SOCIAL ANTHROPOLOGY. B.S, Northwestern, 46; Ph.D, London Sch. Econ, 58. Staff anthropologist, Govt. Am. Samoa, 52-53, Samoan affairs officer, 53-55, dir. local govt, 55-57, territorial develop. officer, 56-57; chief field servs, U.S. Opers. Mission to Laos, 58-59, rural develop. div, 59-61; Far East br, community develop. div, AGENCY INT. DEVELOP, 61-65, DEP. DIR, AID TO KATMANDU, NEPAL, 65- Adv, S.Pac. Conf. Del, 53, 56; mem. U.S. del, S.Pac. Cmn, 53; U.S. mem. S.Pac. Res. Coun, 55-56. U.S.N.R, 43-46, Ens. Am. Anthrop. Asn; Royal Anthrop. Inst. Gt. Brit. & Ireland; Polynesian Soc. N.Z. Acculturation among the Samoans; effect of introduction of Western political institutions upon the traditional authority structure of a central Polynesian society. Address: American Embassy, AID, APO 674, New York 09674.

COOLEY, PROF. RITA W(EBER), b. New York, N.Y, Nov. 21, 19; m. 57. GOVERNMENT. A.B, Hunter Col, 40; A.M, N.Y. Univ, 46, Ph.D, 49. Instr. GOVT, N.Y. UNIV, 44-49, asst. prof, 49-53, assoc. prof, 53-64, PROF, 64-, great teacher award, 67. Government in American society; political behavior. Address: Dept. of Government, New York University, Washington Square, New York, N.Y. 10003.

COOLSEN, DR. FRANK G(ORDON), b. Chicago, Ill, Sept. 26, 15; m. 42; c. 2. MARKETING, ECONOMICS. B.S, Northwestern, 37; M.S, Illinois, 42, Ph.D, 58. Instr, col. commerce, Illinois, 42-43; asst. prof. econ. & mkt, Rensselaer Polytech, 46-49; assoc. prof. mkt, Kentucky, 49-59; prof, Tex. Tech. Col, 59-61; American Univ, 61-63; SR. ECONOMIST, FED. TRADE CMN, 64- Agency Int. Develop. lectr, Spain, 63. Econ. Asn; Mkt. Asn. Industrial organization and industry studies; industrial marketing and purchasing; development of marketing thought. Publ: Kentucky retail marketing areas and trading centers; pioneers in the development of advertising; Marketing thought in the United States. Address: 5905 Greenlawn Dr, Bethesda, Md. 20014.

COOMBS, PROF. CLYDE H(AMILTON), b. Paterson, N.J, July 22, 12; m. 39; c. 2. PSYCHOLOGY. A.B, California, 35, A.M, 37; Ph.D.(psychol), Chicago, 40. Asst. math. biophys, Chicago, 40-41, instr. psychol, univ. col, 40-41; personnel res. psychologist, U.S. War Dept, 41-43; asst. prof. PSYCHOL, MICHIGAN, 47-48, assoc. prof, 48-51, PROF, 51- Dir. res, bur. psychol. serv, Inst. Human Adjust, 47-50; vis. assoc. prof, Harvard, 48-49. U.S.A, 43-47, Maj. AAAS; fel. Psychol. Asn; Psychomet. Soc; Statist. Asn; Inst. Math. Statist. Measurement theory; psychological scaling; decision making. Publ: Theory of psychological scaling; Nonmetric factor analysis; Theory of data. Address: 3419 Daleview Dr, Ann Arbor, Mich. 48105.

COOMBS, DR. ROBERT H(OLMAN), b. Salt Lake City, Utah, Sept. 16, 34; m. 58; c. 3. SOCIOLOGY. B.S, Utah, 58, M.S, 59; Nat. Sci. Found. summer fels, Washington State, 62, 63, Ph.D.(sociol), 64. Instr. SOCIOL, Iowa State, 63-64, asst. prof, 64-66; BOWMAN GRAY SCH. MED, 66-68, ASSOC. PROF, 68-, summer fel, 66. U.S. Pub. Health Serv. grant, 68. Mem. exec. cmt. & membership chmn, Nat. Coun. Family Rels, 67-; Groves Family Conf. Bobbs-Merrill award sociol, 62. U.S.A.R, 58-64. Sociol. Asn; Asn. Am. Med. Cols. Socialization and marital stresses during medical training; mate selection. Publ: Karl Mannheim, epistemology and the sociology of knowledge, Sociol. Quart, spring 66; Value consensus and partner satisfaction among dating couples, J. Marriage & Family, 5/66; co-auth, Self conception and the relationship between high school and college scholastic achievement, Sociol. & Soc. Res, 7/66. Address: Behavioral Sciences Center, Bowman Gray School of Medicine, Winston-Salem, N.C. 27103.

COON, DR. CARLETON S(TEVENS), b. Wakefield, Mass, June 23, 04; m. 45; c. 2. ANTHROPOLOGY. A.B, Harvard, 24, A.M, 28, Ph.D.(anthrop), 28. From tutor to prof. anthrop, Harvard, 27-48, asst. curator, Peabody Mus, 36-48; curator ethnol, UNIV. MUS, PENNSYLVANIA, 48-63, RES. CURATOR ANTHROP, 63- Spec. asst. to Am. Legation, Tangier, Morocco, 42-43; hon. curator. anthrop, Peabody Mus, Salem, Mass, 66- Consult, Arabian-Am. Oil Co, Saudi Arabia, 52; Life Mag, 54-55; Pan-African Prehist. Cong, Rhodesia, 55; Scott Foresman Co, Ill, 56-; cmt. sci. personnel, Nat. Sci. Found, 61-64; Smithsonian For. Currency Prog, 64-; Archaeol. TV Show, 66-67. Sheldon traveling fel, exped, Morocco, 25; Bur. Int. Res. exped, Morocco, 26-27; private exped, Senhaja & Ghomara, 28; fel, exped, North. Albania, 29-30; Peabody Mus. exped, Ethiopia & South. Arabia, 33-34, Morocco, 39; Am. Sch. Prehist. Res. exped, Morocco, 47-; Univ. Pennsylvania exped, Iraq & Iran, 48-49, Iran, 51, Afghanistan & Australia, 54, Syria, 55; Jebel Ighoud Man number 2 exped, Morocco, 62-63; Yengema Cave excavation exped, Sierra Leone, 65; Saharan rock paintings exped, Chad & Libya, 66-67. Mem, Nat. Res. Coun; Soc. Sci. Res. Coun, 48-49. Viking medal, Nat. Acad. Sci. & Am. Acad. Arts & Sci, 51; Gold medal, Phila. Athenaeum, 62. U.S.A, 42-46, Maj; Legion of Merit. Asn. Anthrop; Asn. Phys. Anthrop.(pres, 62-64). Physical anthropology; ethnography of the Middle East; archaeology of North Africa and the Middle East. Publ: Races of Europe; Caravan; The origin of races. Address: 207 Concord St, Gloucester, Mass. 01930.

COONEY, PROF. MICHAEL J(OSEPH), Econ, Statist, see 10th ed, Soc. & Behav. Vols.

COONROD, DEAN ROBERT W, Russian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COONS, PROF. ALVIN E(MERY), b. Webster City, Iowa, Feb. 3, 08. ECONOMICS. B.A, Iowa, 32; M.S, Iowa State Col, 39, Ph.D.(econ), 46; Chicago, 40-41. Instr. econ, Iowa State Col, 38-40; asst. prof, S.Dak. State Col, 40-42; OHIO STATE, 46-51, assoc. prof. ECON, 51-57, PROF, 57-, ASST. TO DIR. RES. FOUND. & COORDINATOR RES. SOC. SCIS, 52-, asst. dir. leadership studies, personnel res. bd, 48-52. U.S.A.A.F, 42-45, Maj. Econ. Asn. National income accounting and analysis; economic development; leadership in business organization; urban economics. Publ: Co-auth, Housing market research and the rise in home ownership, Ohio State Bur. Bus. Res; auth, The income of nations and persons; A predictive study of administrative work patterns. Address: 347 Kendall Place, Columbus, Ohio 43205.

COONS, DR. ARTHUR G(ARDINER), b. Anaheim, Calif, June 13, 00; m. 27; c. 1. ECONOMICS. A.B, Occidental Col, 20; A.M, Pennsylvania, 22, Harrison scholar, 25-26, Ph.D.(econ), 27; LL.D, Lewis & Clark Col, 46, William Jewell Col, 49, Pomona Col, 51, California, 58, Whittier Col, 64, Southern California, 64, Claremont Grad. Sch, 65, Occidental Col, 65; Sc.D, Pennsylvania, 57; L.H.D, Univ. Judaism, 62, Santa Clara, 66. From Assoc. to asst. prof. econ, California, Los Angeles, 24-25, 26-27; asst. prof. econ. & exec. secy, Occidental Col, 27-31, from assoc. prof. to prof. econ. & dean men, 31-38; prof. econ, grad. sch, Claremont Col, 38-43, dir. grad. studies, 41-43; dean faculty & prof. econ, OCCIDENTAL COL, 43-45, pres, 45-65, EMER. PRES, 65- Vis. prof. & res. fel, Calif. Col. in China, 33-34; res. assoc, Haynes Found, 39-42. Consult, Nat. Resources Planning Bd, 40-41. Pres, Pac. Coast Soc. Sci. Res. Conf, 40; mem, U.S. Reparations Mission, Japan, 45-46; chmn, Master Plan Surv. Higher Ed, Calif, 59-60, mem, Coord. Coun. Higher Ed, 60-, pres, 65-68; mem, Pac. Region Marshall Scholar. Cmt, 66-, chmn, 67- Econ. Asn; Acad. Polit. & Soc. Sci; Asn. Am. Cols.(pres, 56). International economics; American Oriental policy. Publ: Foreign public dept of China; Five years of national government finance. Address: 240 Via Genoa, Lido Isle, Newport Beach, Calif. 92660.

COONS, PROF. W(ESLEY) H(ARRISON), b. Lamont, Alta, June 29, 24; m. 54; c. 1. PSYCHOLOGY. B.A, Alberta, 48; M.A, Toronto, 50, Ph.D, 55. Asst, inst. aviation med, Royal Can. Air Force, 48-50; staff psychologist, Toronto Ment. Health Clin, 50-52; chief psychologist, Ont. Hosp, Hamilton, 52-61; assoc. prof. PSYCHOL, Dalhousie, 61-64; YORK (ONT), 64-66, PROF, 66- Spec. lectr, McMaster, 56-61. Consult, Ont. Hosp, Whitby, 65- R.C.A.F, 42-45, Flying Officer. Am. Psychol. Asn; Can. Psychol. Asn.(pres. elect, 66-67, pres, 67-68). Behavioral correlates of brain damage; behavior modification; social interaction. Publ: Interaction and insight in group psychotherapy, Can. J. Psychol, 57; The dynamics of change in psychotherapy, Can. Psychiat. Asn. J, 67; co-auth, Verbal conditioning, acceptance of self and acceptance of others, Psychol. Reports, 67. Address: Dept. of Psychology, York University, Toronto 12, Ont, Can.

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COOPER, PROF. CLARA CHASSELL, b. Sundance, Wyo, Mar. 24, 93; m. 22; c. 2. PSYCHOLOGY. A.B, Cornell Col, 12; M.Di, Iowa State Teachers Col, 13; M.A, Northwestern, 14; summer, Chicago, 15; fel, American Univ, 16-17; scholar, Columbia, 17, Ph.D.(ed. res), 20. Head dept. philos. & ed, William Woods Col, 14-15; asst. prof. Eng. lit, Simpson Col, 15-16; psychologist, Horace Mann Sch. & instr. exp. ed, teachers col, Columbia, 17-22; asst, inst. ed. res, Columbia, 22; instr. psychol, Drew Theol. Sem, 20-23; sr. acct. clerk, exten. serv, Maryland, 43-46; assoc. Eng, George Washington, 46; asst. prof. psychol, Wilson Col, 46-48; dean women & head dept. psychol, Lebanon Valley Col, 48-51; assoc. prof. PSYCHOL, Berea Col, 51-57, prof, 57-61, chmn. dept, 52-61; vis. prof, W.Va. Wesleyan Col, 61-63; prof, Tunghai, 63-65; VIS. PROF, TALLADEGA COL, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn; Soc. Sci. Study Relig; Int. Coun. Psychol. Morality and intellect; delinquency and feeblemindedness; psychology applied to national and international problems. Publ: Relation between morality and intellect; Comparative study of delinquents and non-delinquents; ed, Education for a free society. Address: 318 Jackson St, Berea, Ky. 40403.

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COOPER, DR. G. DAVID, b. Hagerstown, Md, July 7, 35. PSYCHOLOGY. A.B, Shepherd Col, 57; Ph.D.(psychol), Duke, 62. Chief psychologist, Petersburg Training Sch, 61-63; res. psychologist, Friends of Psychiat. Res, 63-64; RES. CLIN. PSYCHOLOGIST, VET. ADMIN. CENTER, MARTINSBURG, W.VA, 64- Lectr. Richmond Prfnl. Inst, 62; clin. assoc, West Virginia, 67-Consult, Bur. Crippled Children, Richmond, Va, 59-61. Psychol. Asn. Applications of ego-analytic personality theory to problems of personality de-

scription and behavior modification, especially special environments. Publ: Ego strength changes following perceptual deprivation, AMA Arch. Gen. Psychiat, 62; Personality changes after sensory deprivation, J. Nerv. & Ment. Diseases, 65; The Porteus test and various measures of intelligence with southern Negro adolescents, Am. J. Ment. Deficiency, 67. Address: 42 N. Locust St, Hagerstown, Md. 21740.

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COOPER, PROF. JAMES G(ORDON), b. Palo Alto, Calif, Aug. 30, 18; m. 41; c. 1. EDUCATION. B.S, Maine, 46; M.A, Stanford, 48, Ed.D.(ed. psychol, guid), 49. Asst. prof. psychol, San Francisco State Col, 48-51; dir. guid, Modoc County Schs, Calif, 51-53; prof. ED, State Univ. N.Y. Teachers Col, New Paltz, 53-56; prof. ed. & chmn. div. ed. & psychol, Col. Guam, 56-62; assoc. prof. guid, NEW MEXICO, 62-66, PROF. RES, 66- U.S. Off. Ed. res. grants, 62-64, 64-65 & summer, 67. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Educational research and statistics via computers; teacher effectiveness, behavior and personality and their relation to pupil achievement. Publ: Inspection Rorschach in the prediction of college success, J. Ed. Res; Predicting school achievement for bilingual pupils, J. Ed. Psychol; Basic statistical analyses for educational research, Col. Ed, Univ. New Mexico, 66. Address: College of Education, University of New Mexico, Albuquerque, N.Mex. 87106.

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COOPER, DR. JOSEPH, b. Boston, Mass, Sept. 10, 33; m. 65. POLITICAL SCIENCE. A.B, Harvard, 55, A.M, 59, Ph.D.(polit. sci), 61. Instr. govt, Harvard, 60-63, asst. prof, 63-67; ASSOC. PROF. POLIT. SCI. & CHMN. DEPT, RICE, 67- Brookings res. fel, 66-67. Consult, Arthur D. Little, Inc, 64-65; U.S. Senate Cmt. Rules, 65-66. Polit. Sci. Asn. Legislative behavior. Jeffersonian theory and committee development, West. Polit. Quart, 3/65; The functions of Congress, Rice Univ. Studies, summer 68; co-auth, Presidential leadership and party success, J. Polit, 11/68. Address: Dept. of Political Science, Rice University, Houston, Tex. 77001.

COOPER, PROF. JOSEPH BONAR, b. Indianapolis, Ind, Dec. 10, 12; m. 46; c. 4. PSYCHOLOGY. A.B, California, Los Angeles, 36, Ph.D.(psychol), 40. Asst, California, Los Angeles, 37-40; instr. PSYCHOL, SAN JOSE STATE COL, 40-42, asst. prof, 46-48, assoc. prof, 48-51, PROF, 51- U.S.N, 42-46; U.S.P.H.S, 58-, Sr. Scientist. Fel. AAAS; fel. Psychol. Asn; Inter-Am. Soc. Psychol. Comparative and social psychology; learning. Publ: Co-auth, Integrating principles of social psychology, Schenkman, 63; auth, Emotion in prejudicial attitudes, Science; Role of parent in attitude development, Genetic Psychol. Address: Dept. of Psychology, San Jose State College, San Jose, Calif. 95114.

COOPER, PROF. JOSEPH D(AVID), b. Boston, Mass, May 25, 17; m. 42; c. 2. PUBLIC ADMINISTRATION, POLITICAL SCIENCE. A.B, George Washington, 44; M.A, American Univ, 47, Ph.D, 51. Chief procedural coord. br, U.S. State Dept, 47-51; exec. dir, U.S. Stabilization Bd, 51-53; exec. asst. to Dep. Postmaster Gen. U.S, 53-58; dir. mgt. eng. div, Corp. Econ. Indust. Res, 58; asst. to exec. v.pres, Emertron, Inc. Div. Emerson Radio & Phonograph Corp, 58-60; PROF. GOVT, HOWARD, 65- Adj. prof, American Univ, 52- Consult, Audio-Visual, U.S. Photo Supply Co, D.C, 61-65; cmn. res, Am. Med. Asn, 65-67. AAAS; Soc. Pub. Admin; Polit. Sci. Asn; Int. Acad. Law & Sci. Sociology of innovation; role of government in support of medical research and in evolution of health services; dynamics of public policy formation. Publ: Art of decision making; Pills & politics, Doubleday, (in press); How to communicate policies and instructions. Address: 2810 Blaine Dr, Chevy Chase, Md. 20015.

COOPER, DR. JUNE M, Speech Path, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

COOPER, PROF. LESLIE M(UIR), b. Salt Lake City, Utah, May 18, 30; m. 54; c. 3. PSYCHOLOGY. B.S, Brigham Young, 54, M.S, 58; fel, Illinois, 58-59, U.S. Pub. Health Serv. fel, 59-61, Ph.D.(psychol, personality), 62. Spec. instr. PSYCHOL, Brigham Young, 57-59, asst. prof, 62-64; Stanford, 64-66; ASSOC. PROF, BRIGHAM YOUNG, 66- Consult. psychometrician, Utah State Training Sch, 57-58. U.S.A.F, 54-56, Res, 56-, 1st Lt. AAAS; Psychol. Asn; Psychonomic Soc. Learning theory; psychodiagnosis; motivation; hypnosis. Publ: Operant behavior as a function of stimulus complexity, J. Comp. & Physiol. Psychol, 63; Spontaneous and suggested posthypnotic source amnesia, Int. J. Clin. & Exp. Hypnosis, 66; co-auth, Patterns of parental discipline, J. Soc. Psychol, 67. Address: Dept. of Psychology, Brigham Young University, Provo, Utah 84601.

COOPER, DR. MARCIA MANN, b. Canandaigua, N.Y, Apr. 3, 03. PSYCHOLOGY. M.A, Hopkins, 40, Sc.D.(ment. hyg), 47. Asst. supvr. nursery schs, Md, 34-39; psychologist ment. hyg. study, SCH. HYG, HOPKINS, 41-43, clin. dir, mother's adv. serv, 43-52, asst. prof. pub. health admin, 52-66, ASSOC. PROF. MENT. HYG, 66- WHO consult, inst. hyg, Univ. Philippines, 60; consult, Health Minister, India, 63-64. AAAS; Psychol. Asn; Soc. Res. Child Develop; Pub. Health Asn; N.Y. Acad. Sci. Child psychology and development; mental hygiene; epidemiological study of physical, psychiatric and nutritional status of a rural Yugoslav population; mental hygiene in developing countries. Publ: Pica; Manual of mental hygiene for the Philippines; Methodological problems in the epidemiological study of Deboleza, Psychol. Spectator, 1/66. Address: Johns Hopkins University School of Hygiene, 615 N. Wolfe St, Baltimore, Md. 21205.

COOPER, PROF. MATTHEW N(ATHANIEL), b. Macomb, Ill, Oct. 29, 14; m. 41; c. 2. EDUCATIONAL PSYCHOLOGY. B.Ed, West. Ill. State Teachers Col, 40; M.A, Illinois, 46; Ph.D.(ed. psychol), N.Y. Univ, 55. PROF. ED. PSYCHOL, TEXAS SOUTHERN, 47- Mem. adv. cmt. counseling, U.S. Off. Ed, 65-; voc. consult, Bur. Soc. Security & Bur. Hearings & Appeals, 65- Psychol. Asn; Personnel & Guid. Asn; Nat. Ed. Asn. Learning; personality development; self-rating of skin complexion among Negroes and the attribution of selected characteristics. Publ: To determine the nature and significance, if any, of certain differences in the social and emotional adjustments of fifty-one academically successful and fifty-one non-successful college students at Texas Southern University; co-auth, Sophomore college students and the conversion of common fractions, decimals and percents. Address: 4749 Alvin St, Houston, Tex. 77033.

COOPER, MAURICE R(OYCE), Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

COOPER, DR. MAX, b. Newark, N.J, Feb. 28, 10; m. 32; c. 2. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 31, M.S, 34; Ph.D, N.Y. Univ, 44. Psychologist, N.Y. State Inst, Napanoch, 36-46; chief clin. psychol, Vet. Admin. Hosps, Framingham, Mass, 46-51, chief psychologist, Northport, N.Y, 51-58; CONSULT. PSYCHOLOGIST, 58- Attend. psychologist, Montefiore Hosp, 51-56; dir, Fifth Ave. Center Counseling & Psychother, Inc, 64-; secy, Metrop. Inst. Psychoanal. Study, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol, 49. Fel. Psychol. Asn. Group psychotherapy; prediction of success in psychotherapy; interdisciplinary professional relations. Publ: Evaluation of Rorschach patterns in headache syndromes, N.Y. State Med. J; Group therapy with headache patients, Int. J. Group Psychother; collab, Use of Metrazol with geriatric patients, Geriatrics. Address: 16 W. 16th St, New York, N.Y. 10011.

COOPER, DR. MORTON, b. Newark, N.J, Feb. 23, 30; m. 56; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Rutgers, 51; M.S, City Col. New York, 52; fel. & Ph.D, American Univ, 58. Intern psychol, St. Elizabeth's Hosp, D.C, 54-55; clin. psychologist, legal psychiat. serv, U.S. Court, 55-57; dept. corrections, Lorton Reformatory, Va, 57-58; child guid. clin, Juvenile Court, D.C, 58-63; CHIEF CLIN. PSYCHOLOGIST, MONTGOMERY COUNTY MENT. HEALTH CENTER, 63- Instr, American Univ, 56-60; private practice, 58- Med.C, 52-54, Sgt. Psychol. Asn. Development of two mental health exchanges open to general public for discussion of mental health topics and giving information and referral data. Publ: Co-auth, The response of chronic juvenile delinquents to a program of close supervision, Juvenile Gangs in Context, 67; auth, The mental health exchange: an important function of a community mental health center, winter 66 & PEPY, the parents exchange on problems of youth, winter 67, Community Ment. Health J. Address: 8500 Colesville Rd, Silver Spring, Md. 20910.

COOPER, PROF. PETER PENN, II, b. Frederick Hall, Va, June 26, 25; m. 47; c. 3. POLITICAL SCIENCE, ANTHROPOLOGY. B.A, Catawba Col, 49; M.A, North Carolina, 50, summers, 63 & 64; summer, Yale, 51. Aircraft electrician, U.S. Naval Air Base, 41-43; dir, dept. ed, Rowan County Alcoholic Beverage Control Bd, 50-52; exec. dir, Tri-State United World Federalists, 52-55; dir. pub. rels. & commun. CATAWBA COL, 55-59, instr. soc. sci, 59, CHMN. dept. soc. & polit. sci, 60-64, DEPT. POLIT. SCI, 64- Res. grants New World archaeol, 65-68; summer fels, Colorado, 66, North Carolina, 67. Consult, various alcoholic beverage control bds, 52- N.C. Chmn. Hoover Cmn. Report Proj, 55; chmn. N.C. Gov. Cmt. UN Affairs, 60. U.S.A, 43-46, Res, 46-66, Maj. AAAS; Soc. Am. Archaeol. International political organization; political theory; problems related to use of alcoholic beverages; prehistoric New World archaeology, especially tools and weapons. Address: Dept. of Political Science, Catawba College, Salisbury, N.C. 28144.

COOPER, PROF. REUBEN, b. Liverpool, Eng, July 31, 10; U.S. citizen; m. 35; c. 1. SPEECH PATHOLOGY. B.S.S, City Col. New York, 33, M.S, 47; La. State, 54-55. Instr. English, OLD DOM. COL, 46-55, assoc. prof. SPEECH, 55-64, PROF, 64- A.U.S, 43-46, Sgt. Speech & Hearing Asn; Speech Asn. Am; Cleft Palate Asn. Stuttering approaches; cleft palate rehabilitation; articulation testing; semiology. Publ: Approaches to stuttering therapy, 62 & A revised developmental articulation test, fall 67, J. Speech & Hearing Asn. Va; co-auth, Varying concepts in bone grafting of alveolar palatal defects, Cleft Palate J. 1/64. Address: 1341 Surrey Crescent, Norfolk, Va. 23508.

COOPER, PROF. RICHARD N(EWELL), b. Seattle, Wash, June 14, 34; m. 56; c. 2. ECONOMICS. B.A, Oberlin Col, 56; M.Sc, London Sch. Econ, 58; Ph.D. (econ), Harvard, 62. Sr. staff economist, Coun. Econ. Advisers, Exec. Off. of the President, 61-63; asst. prof. econ, Yale, 63-65; dep. asst. secy. of state for int. monetary affairs, U.S. Dept. State, 65-66; PROF. ECON, YALE, 66- Consult, Coun. Econ. Advisers, 63-; U.S. Treas. Dept, 64-; Rand Corp, 64-65; UN, 64-67; U.S. State Dept, 66- Econ. Asn; Royal Econ. Soc. Theory of national economic policy in a world of interdependent nations; trade problems of less developed countries. Publ: The economics of interdependence, McGraw, 68; Growth and trade: some hypotheses about long-term trends, J. Econ. Hist, 12/64; The balance of payments in review, J. Polit. Econ, 8/66. Address: Dept. of Economics, Yale University, Box 1987, Yale Station, New Haven, Conn. 06520.

COOPER, DR. R(ODERICK) M(ELVIN), b. Winnipeg, Man, Oct. 11, 33; m. 59; c. 2. PSYCHOLOGY. B.A, Manitoba, 56, M.A, 58; Ph.D.(psychol), McGill, 61. From lectr. to asst. prof. psychol, Manitoba, 60-63; fel. pharmacol, Albert Einstein Col. Med, 63-64; from asst. prof. to ASSOC. PROF. PSYCHOL, CALGARY, 64- AAAS; Psychol. Asn; Can. Psychol. Asn. Physiological psychology. Publ: Co-auth, Effects of enriched and restricted environments on bright and dull rats, Can. J. Psychol, 58; co-auth, Effects of posterior cortical lesions on performance of a brightness discrimination task, J. Comp. & Physiol. Psychol, 64; co-auth, Thalamic reticular system and central grey: self-stimulation, Science, 67. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

COOPER, DEAN RUSSELL M(ORGAN), b. Newton, Iowa, Dec. 6, 07; m. 30; c. 4. INTERNATIONAL RELATIONS. A.B, Cornell Col, 28, LL.D, 53;

Roberts fels, Columbia, 28-29, 32-33, A.M, 29, Ph.D, 34; Geneva, 32-33. Prof. hist. & polit. sci, Cornell Col, 34-44; prof. gen. studies, chmn. dept. & asst. dean col. sci, lit. & arts, Minnesota, 44-59; DEAN LIB. ARTS COL, SOUTH FLORIDA, 59- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Higher education. Publ: American consultation in world affairs; Two ends of the log; co-ed, Preparation of college teachers. Address: 10617 Carrollwood Dr, Tampa, Fla. 33618.

COOPER, DR. RUTH, b. Poland, Mar. 11, 18; nat; m. 36; c. 2. PSYCHOLOGY. B.A, Queens Col.(N.Y), 55; M.A, Columbia, 57, Ph.D.(psychol), 59. Sr. psychologist, CITY HOSP, ELMHURST, 61-65, CHIEF PSYCHOLOGIST, 65- Instr, Queens Col.(N.Y), 60-; asst. clin. prof, Mt. Sinai Sch. Med, 66- Private practice, 60- Psychol. Asn. Perception in schizophrenia; ego strength; effect of drugs in psychosis. Publ: Objective measures of perception in schizophrenia, J. Consult. Psychol. Address: 36-05 166th St, Flushing, N.Y. 11358.

COOPER, DR. SHERWIN H(ARRY), b. New York, N.Y, Mar. 1, 27; m. 51; c. 2. GEOGRAPHY. B.S, Cornell, 49; M.A, Michigan, 52, fels, 52-54, 56-57, Ph.D. (geog), 60. Instr. GEOG, Georgia, 54-56; North Carolina, 57-60, asst. prof, 60-62, ASSOC. PROF, CINCINNATI, 62- Nat. Insts. Health res. grants, environ. health center, Cincinnati, 66-68; Nat. Sci. Found. res. grant, 68-70. U.S. Merchant Marine, 44-46, 49-50; Sig.C, U.S.A, 54-56. AAAS; Am. Geog. Soc; Asn. Am. Geog; Royal Geog. Soc. Historical and bio-physical geography; historical and ecological studies in the great Miami River Basin of Ohio. Publ: Rural settlement of the Savannah country, In: Papers of the Michigan academy of arts, science and letters, 62; Census county division: a major revision of the minor civil division, 63 & Theoretical geography, applied geography and planning, 66, Prfnl. Geog. Address: Dept. of Geography, University of Cincinnati, Cincinnati, Ohio 45221.

COOPER, PROF. WELDON, b. Kirbyville, Tex, Nov. 12, 06; m. 30. POLITICAL SCIENCE. A.B, Abilene Christian Col, 26; A.M, Texas, 32; Ph.D.(polit. sci), Chicago, 39. Asst. prof. polit. sci, Alabama, 38-40, assoc. prof, 40-41, asst. dir. bur. pub. admin, 38-41, prof. pub. admin, 46-47; admin. analyst, U.S. Bur. Budget, 41-44, 45-46; prof. polit. sci, VIRGINIA, 47-65, PROF. GOVT, 65-, ADMIN. ASST. TO PRES, 59-, DIR. INST. GOVT, 64-, assoc. dir. bur. pub. admin, 47-56, dir, 56-64. Exec. asst. to gov, Va, 50-51; consult, Alaska Constitutional Convention, 55. Ed, Newsletter, Univ. Virginia, 57-, secy, bd. visitors, 58- U.S.A, 44-45. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; state, local and metropolitan government. Address: Institute of Government, 207 Minor Hall, University of Virginia, Charlottesville, Va. 22903.

COOPER, PROF. W(ILLIAM) W(AGER), b. Birmingham, Ala, July 23, 14; m. 44. ECONOMICS. A.B, Chicago, 38; Columbia, 40-42. Res. asst, Tenn. Valley Authority, 38-40; prin. economist, U.S. Bur. Budget, 42-46; PROF. ECON, CARNEGIE-MELLON UNIV, 46- Instr, Chicago, 44-46; Ford Found. distinguished res. prof, 58-59 & faculty fel, 62-63. Consult, U.S. Bur. Budget, 46-; Econ. Coop. Admin, 48-50. Award, Am. Inst. Acct, 45. AAAS; Inst. Mgt. Sci.(pres, 54); Opers. Res. Soc; Economet. Soc; Am. Acct. Asn. Publ: Co-auth, Management models and industrial applications of linear programming, Introduction to linear programming & New perspectives in organizational research. Address: Dept. of Economics, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

COOPERMAN, PROF. D(AVID), b. New York, N.Y, Jan. 27, 27; m. 52. POLITICAL SCIENCE. B.A, Minnesota, 47, M.A, 52, Ph.D, 54. Rockefeller fel, 54-55; ASSOC. PROF, SOC. SCI. PROG, MINNESOTA, MINNEAPOLIS, 56- Minnesota teaching award, 66. Sociol. Asn; Polit. Sci. Asn; Int. Polit. Sci. Asn. Political and legal theory; comparative law and government; philosophy of social science; sociology of knowledge. Publ: Co-auth, Power and civilization, Crowell, 62. Address: 2208 N. Willow Lane, Minneapolis, Minn. 55416.

COOPERSMITH, PROF. STANLEY, b. New York, N.Y, July 15, 26; m. 55; c. 2. PSYCHOLOGY. B.A, Yeshiva, 46; fel, Brandeis, 53-55, M.A, 55; Ph.D, Cornell, 57. From asst. to res. assoc. physiol, sch. med, Creighton, 50-52; asst. child develop, Cornell, 55-57; asst. prof. PSYCHOL, Wesleyan, 57-63; ASSOC. PROF, CALIFORNIA, DAVIS, 63-, chmn. dept, 63-66. Soc. Sci. Res. Coun. faculty res. fel, 60-61; Nat. Sci. Found. fel, 65-66. Psychol. Asn; Soc. Res. Child Develop. Personality development; self esteem. Publ: Auth. & ed, Frontiers of psychological research, 66 & auth, antecedents of self esteem, 67, Freeman; Clinical exploration of self esteem. Address: Dept. of Psychology, University of California, Davis, Calif. 95616.

COOR, DR. LATTIE F, b. Phoenix, Ariz, Sept. 26, 36; m. 64; c. 1. POLITICAL SCIENCE. A.B, Northern Arizona, 58; M.A, Washington (St. Louis), 60, Ph.D.(polit. sci), 64. Instr. polit. sci, Washington (St. Louis), 59, res. assoc, Carnegie Proj, 59-61; admin. asst, Off. Gov. Mich, 61-63; asst. to chancellor, WASHINGTON (ST. LOUIS), 63-67, lectr, 64-67, ASST. PROF. POLIT. SCI, ASST. DEAN GRAD. SCH. ARTS & SCI. & DIR. INT. STUDIES, 67- Polit. Sci. Asn. Political vulnerability of the American governor; American national policy making process. Address: 7029 Kingsbury Blvd, St. Louis, Mo. 63130.

COOTNER, PROF. PAUL H(AROLD), b. Logansport, Ind, May 25, 30. ECONOMICS. B.S, Florida, 49, M.A, 50; Ph.D.(econ), Mass. Inst. Tech, 53. Asst. ECON, Mass. Inst. Tech, 52-53; instr, Brown, 55-56; res. assoc, Resources for Future, D.C, 56-59; asst. prof, MASS. INST. TECH, 59-62, assoc. prof, 62-66, PROF, 66- Ford Found. intern 55-56 & faculty fel, 65-66. Consult, indust. & govt, 62- U.S.A, 53-55. Econ. Asn; Finance Asn; Economet. Soc; Inst. Math. Statist. Economics of expectations; price behavior in futures and stock markets; stochastic processes. Publ: Ed, Random character of stock market prices, M.I.T. Press, 64; auth, Social overhead capital and economic growth, Proc, Int. Econ. Asn. Conf; Returns to speculators: Telser vs. Keynes, J. Polit. Econ. Address: 6 Walnut St, Boston, Mass. 02108.

COOX, DR. ALVIN DAVID, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COPE, PROF. ALFRED HAINES, b. Oakbourne, Pa, May 29, 12; m. 37; c. 1. POLITICAL SCIENCE. A.B, Earlham Col, 34; Ph.D.(polit. sci), Pennsylvania, 48. Asst, inst. local & state govt, Pennsylvania, 40-42, instr. polit. sci, 46-48; sr. admin. aide, U.S. Civil Serv. Cmn, 42-43; asst. dir. citizenship prog, SYRACUSE, 48, asst. prof. citizenship, 48-51, assoc. prof, 51-56, prof, 56-62, PROF. CITIZENSHIP & POLIT. SCI, 62-, ASST. DEAN COL. LIB. ARTS, 60-, Utica Col. Div, 56-60. Researcher, Am. Coun. Ed, 50-53; capt. Syracuse workshop team, Danforth Found. workshop, Colo, summer 67. Consult, 50-54. U.S.A, 43-46, Capt. AAAS; Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. State and local government; industrial management; public administration. Publ: Administration of civil service in cities of the 3rd class in Pennsylvania; co-ed, Current defense of the United States & Franklin D. Roosevelt and the Supreme Court. Address: 201 Houston Ave, Syracuse, N.Y. 13224.

COPEL, DR. SIDNEY LEROY, b. Philadelphia, Pa, Aug. 31, 30; m. 54; c. 1. PSYCHOLOGY. B.A, Temple, 51, M.Ed, 53, Ed.D.(psychol), 58. Psychologist, Camden Pub. Schs, N.J, 53-56; asst. dir. clin. psychol, DEVEREUX FOUND, DEVON, 56-66, ADMINSTR. PSYCHOL. CLIN, 66- Lectr, sch. nursing, Jefferson Med. Col. Hosp, 64-; sch. nursing, Bryn Mawr Hosp, 65-66; clin. psychologist, Chester Pub. Schs, Pa, 67- AAAS; fel. Soc. Proj. Tech. Individual and group psychotherapy; diagnostic testing; training interns in clinical psychology. Publ: Psychodiagnostic study of children and adolescents, C.C. Thomas, 67. Address: 615 E. Manoa Rd, Havertown, Pa. 19083.

COPELAND, DR. HERMAN A(BNER), b. Wapakoneta, Ohio, June 23, 06; m. 36; c. 4. INDUSTRIAL PSYCHOLOGY. A.B, Ohio, 27; Wesleyan, 27-28; M.A, Ohio State, 29, scholar, 33-34, Ph.D.(indust. psychol), 42. Instr. psychol, Ohio State, 42-43; Temple, 46-53; chief personnel exam, State Civil Serv. Cmn, Pa, 55-57, dir. bur. exam, 57-66; PROG. DIR, PRFNL. EXAM. SERV, AM. PUB. HEALTH ASN, 66- Res. asst, Atlantic Ref. Co, Pa, 44-45; instr, Pa. Area Cols, 47-48; vis. prof, Iowa State Col, 55. Personnel technician, Adj. General's Off, 43-45. Psychol. Asn; Psychomet. Soc. Clerical, trade and executive tests. Publ: Reliability of personnel records; Characteristics of clerical tests. Address: 909 Atwood Rd, Philadelphia, Pa. 19118.

COPELAND, PROF. LEWIS C(AMPBELL), b. Houston, Tex, Feb. 10, 09; m. 33; c. 3. STATISTICS. A.B, Texas Christian, 31; M.A, Chicago, 37; Rosenwald fel, Duke, 37-39, univ. fel, 38-39, Ph.D.(statist, sociol), 39. Research, 39-43; Tennessee, 43-44; statist. & econ, Tenn. Valley Authority, 44-53; PROF. STATIST, TENNESSEE, 53- Statist. Asn; Sociol. Asn; Rural Sociol. Soc. Statistical methods; social science research methods; distribution of income; market analysis. Publ: North Carolina's statewide travel business, 1966, an economic survey; Tourist and travel business in Kentucky, 1948 to 1966, an economic analysis; Tourists and the travel-serving business in Tennessee, 1948-1966. Address: Dept. of Statistics, College of Business Administration, University of Tennessee, Knoxville, Tenn. 37916.

COPELAND, DR. MORRIS A(LBERT), b. Rochester, N.Y, Aug. 6, 95; m. 29; c. 2. ECONOMICS. A.B, Amherst Col, 17, L.H.D, 57; Ph.D, Chicago, 21. Instr. econ, Cornell, 21-25, asst. prof, 25-28, prof, 28-30; Michigan, 30-36; exec. secy, U.S. Cent. Statist. Bd, 33-39; dir. res, U.S. Bur. Budget, 39-41; chief munitions div, War Prod. Bd, 41-44; mem. staff, Fed. Reserve Bd, 47-48; from prof. to Robert J. Thorne prof. ECON, CORNELL, 49-65, EMER. ROBERT J. THORNE PROF, 65- Mem. staff, Nat. Bur. Econ. Res, 45-64; Fulbright lectr, India, 51; vis. prof, Missouri, Columbia, 66-67; State Univ. N.Y. Albany, 68-69. Chmn. exec. cmt, Conf. Nat. Income & Wealth, 40. Econ. Asn.(pres, 57); fel. Statist. Asn.(v.pres, 36); Int. Asn. Res. Income & Wealth. Theory; national income and money flows; relations of economics to other fields of knowledge. Publ: Fact and theory in economics, Cornell; Our free enterprise economy, Macmillan, 65; Study of moneyflows in the United States, 1936-1942, Bur. Econ. Res. Address: Box 295, Sodus, N.Y. 14551.

COPES, PROF. PARZIVAL, b. Nakusp, B.C, Jan. 22, 24; m. 46; c. 3. ECONOMICS. B.A, British Columbia, 49, M.A, 50; Brit. Coun. fel, Soc. Sci. Res. Coun. Can. fel. & Ph.D, London Sch. Econ, 56. Statistician & economist, Dom. Bur. Statists, Ont, 53-57; assoc. prof. econ, Memorial Univ, 57-62, prof, 62-64, head dept. & dir. econ. res, inst. soc. & econ. res, 61-64; PROF. ECON. & HEAD DEPT. ECON. & COMMERCE, SIMON FRASER UNIV, 64- Can. Coun. sr. fel, 64-65. Dir, Atlantic Prov. Econ. Coun, 63-64; mem, nat. coun, Can. Credit Inst, 65-; nat. cmt. ed, Financial Exec. Inst, 66-; bd. gov, Inst. Can. Bankers. Can. Army, 45-46, 50-51, Res, 53-63, Maj. Can. Econ. Asn; Am. Econ. Asn; Regional Sci. Asn; Inst. Pub. Admin. Can. Regional and fisheries economics. Publ: Statistical measurement of morbidity frequency; Place of forestry in the economy of Newfoundland, Forestry Chronicle; St. John's and Newfoundland: an economic survey. Address: Dept. of Economics & Commerce, Simon Fraser University, Burnaby 2, B.C, Can.

COPLIN, DR. HASKELL R(OBERT), b. Okla, Jan. 9, 22; m. 43; c. 4. CLINICAL PSYCHOLOGY. A.B, Michigan, 47; M.A, 48, Ph.D.(clin. psychol), 51; hon. M.A, Amherst Col, 51. Staff psychologist, health serv, Michigan, 49-51, instr. psychol, 50-51; assoc. prof. psychol. & student counsr, AMHERST COL, 51-57, PROF. PSYCHOL, 57- Chmn, Franklin-Hampshire Area Ment. Health & Ment. Retardation Bd, 67- U.S.A.A.F, 42-45, Lt. Psychol. Asn. Personality theory; psychotherapy. Address: Fort Hill, Amherst, Mass. 01002.

COPLIN, DR. WILLIAM D(AVID), b. Baltimore, Md. Sept, 22, 39; m. 62; c. 2. POLITICAL SCIENCE. B.A, Hopkins, 60; M.A, American Univ, 62, Ph.D. (int. rels), 64. Asst. prof. POLIT. SCI, WAYNE STATE, 64-67, ASSOC. PROF, 67- Res. grant-in-aid, 66; Nat. Sci. Found. sci. faculty fel, 68-69. U.S. Dept. State contract, 66- Consult, Indust. Col. Armed Forces, 67- Polit. Sci. Asn; Soc. Int. Law. International politics and law; development of theory in the fields of international law and politics using simulation and related techniques. Publ: The functions of international law, Rand McNally, 66; International law and the assumptions of the state system, World Polit, 7/65; Inter-nation simulation and contemporary theories of international relations, Am. Polit. Sci. Rev, 9/66. Address: Dept. of Political Science, Wayne State University, Detroit, Mich. 48202.

COPP, DR. JAMES H(ARRIS), b. Thief River Falls, Minn, Apr. 28, 25; m. 53; c. 5. SOCIOLOGY. B.A, Minnesota, 49, M.A, 51; Ph.D.(sociol), Wisconsin, 54. Asst. prof. rural sociol, Kans. State Col, 54-55; Wisconsin, 55-56; from asst. prof. to assoc. prof, Pa. State, 56-66, prof, 66-67; CHIEF HUMAN RESOURCES BR, ECON. RES. SERV, U.S. DEPT. AGR, 67- AAAS; Sociol. Asn; Rural Sociol. Soc.(secy-treas, 59-62, v.pres, 67-68). Social organization; technological change; sociology of leisure. Publ: Ed, Our changing rural society, Iowa State Univ, 64; auth, Adoption of recommended farm practices among cattlemen, Kans. Agr. Exp. Sta. Bull; The roots of loyalty in a farmer cooperative, Rural Sociol, 63. Address: Human Resources Branch, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

COPP, PROF. JOHN D(IXON), b. Sackville, N.B, Jan. 31, 08; m. PSYCHOLOGY. B.A, Mt. Allison, 32; dipl, Toronto, 35, B.D, 37; dipl, London, 38; M.A, New Zealand, 45; Ph.D.(psychol. relig), Boston, 53. Asst. prof. psychol. relig, sch. theol, Boston, 53-57; PROF. psychol. & philos, Dakota Wesleyan, 57-58; PSYCHOL, GROVE CITY COL, 58- Psychol. Asn. Anthropology; psychology of religion; counseling. Publ: The Samoan dance of life: an anthropological narrative. Address: Dept. of Psychology, Grove City College, Grove City, Pa. 16127.

COPPINGER, DR. N(EIL) W(ILSON), b. Whitwell, Tenn, July 26, 22; m. 45; c. 2. PSYCHOLOGY. B.S, Tulane, 47, M.S, 49, Ph.D.(psychol), 52. Chief clin. psychologist, Vet. Admin. Center, Wadsworth, Kans, 51-55, CHIEF psychol. training unit, Vet. Admin. Hosp, Augusta, Ga, 55-57, PSYCHOL. SERV. & RES. UNIT ON AGING, VET. ADMIN. CENTER, VA, 57- U.S.N, 42-45, Lt.(jg). Maturity and old age. Publ: Full-range picture vocabulary test, a normative study of Southern Negro children, J. Clin. Psychol; Relationship between CFF and chronological age for varying degrees of stimulus brightness, J. Geront. Address: Veterans Administration Center, Hampton, Va. 23367.

COPPLE, DR. LEE BIGGERSTAFF, b. Albemarle, N.C, Mar. 13, 23; m. 52; c. 3. PSYCHOLOGY. A.B, North Carolina, 47; M.A, Michigan, 50, Ph.D. (Eng), 54; Ph.D.(psychol), Vanderbilt, 61. Asst. prof. Eng, Davidson Col, 54-55; dean of men, Hanover Col, 55-57; asst. prof. PSYCHOL, Vanderbilt, 60-61; ASSOC. PROF, AGNES SCOTT COL, 61- Summer prof. ed, Emory, 62-66. Consult, Fulton County Child Guid. Clin. & div. except. children, State Dept. Ed, Ga, 62-; State Voc. Rehab. Dept, Ga, 65-; Atlanta Asn. Retarded Children, 66- U.S.A, 43-46, Sgt. Psychol. Asn. Causes of reading disability; childhood behavioral disturbances; student values. Address: Dept. of Psychology, Agnes Scott College, Decatur, Ga. 30030.

COPPOCK, PROF. H(AROLD) W(EST), Psychol, see 11th ed, Phys. & Biol. Vols.

COPPOCK, PROF. JOSEPH D(AVID), b. Peru, Ind, Feb. 10, 09; m. 40; c. 4. ECONOMICS. A.B, Swarthmore Col, 33; A.M, Columbia, 34, Ph.D, 40; Chicago, 37; Pennsylvania, 38. Teacher econ, Hendrix Col, 34-37; Swarthmore Col, 37-39; California, 39-41; spec. asst. to v.chmn, War Prod. Bd, 42; price exec, chem. br, Off. Price Admin, 43; econ. adv, int. trade policy, U.S. Dept. State, 45-53; prof. ECON, Earlham Col, 53-63; vis. prof, American Univ. Beirut, 63-65; PROF, PA. STATE, 65- Researcher, Nat. Bur. Econ. Res, N.Y, 38-39; teacher, Haverford Col, 41; Oregon, 41; economist, U.S. Dept. Agr, 41; planning officer, Off. Strategic Servs, 44-45; teacher, American Univ, 46; vis. prof, Nat. War Col, 51-53; vis. prof, econ. ed. prog, Purdue, 55; mem. price discrimination study, Brookings Instn, 56, nat. res. prof, 59-60; mem. Ford faculty res. seminar, Wisconsin, 57, vis. prof, 59; participant, res. proj. ed. bus, Carnegie Corp, 57-58; vis. prof. Indiana, 58; Michigan, 61; dir. for. econ. adv. staff, U.S. Dept. State, 61-62. Mem. U.S. delegation, UN Econ. & Soc. Coun. & Econ. & Employ. Cmn, 46-52; consult, U.S. Dept. State, 62- Publ: Economics of the business firm, 59; International economic instability: the experience after world war II, 62; Foreign trade of the Middle East, Am. Univ. Beirut, 66. Address: Dept. of Economics, Pennsylvania State University, University Park, Pa. 16802.

COPPOCK, DR. W(ALTER) J, b. Moylan, Pa, Jan. 30, 27; m. 50; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, California, 52, Ph.D.(psychol), 56. Eng. aide, California, 54; instr. psychol, Oregon State Col, 56-57; res. fel. surg, med. sch, Oregon, 57-59; asst. prof. PSYCHOL, SAN FRANCISCO STATE COL, 59-64, assoc. prof, 64-68, PROF, 68- AAAS; Psychol. Asn; Soc. Psychol. Study Soc. Issues. Neuro-psychology of learning, motivation, perception. Address: Dept. of Psychology, San Francisco State College, San Francisco, Calif. 94132.

COPPS, PROF. JOHN ALDEN, b. Marshfield, Wis, July 10, 20; m. 44; c. 2. ECONOMICS. B.S, Wisconsin, 47, M.S, 48, Ph.D, 53. Instr. ECON, Kalamazoo Col, 50-53, asst. prof, 53-56; assoc. prof, Stetson, 56-59; WESTERN MICHIGAN, 59-65, PROF, 65- U.S.A.A.F, 42-46. Econ. Asn; Indust. Rels. Res. Asn. Foreign labor movements; social security; monetary theory. Publ: On the meaning of monopoly power in labor relations, Labor Law J; Role of the union in British socialist thought, South. Econ. J; Influence of size on employee relations, Personnel Admin. Address: Dept. of Economics, Western Michigan University, Kalamazoo, Mich. 49001.

COPULSKY, DR. WILLIAM, b. Zhitomir, Russia, Apr. 4, 22; U.S. citizen; m. 48; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. B.A, N.Y. Univ, 42, Ph.D.(econ), 57; M.B.A, City Col. New York, 48. Asst. to pres, R.S. Aries & Assocs, 47-51; MGT. COMMERCIAL DEVELOP, W.R. GRACE & CO, 51- Lectr, grad. div, Baruch Sch, City Col. New York, 67- Sig.C, U.S.A, 42-46, S/Sgt. Chem. Soc; Statist. Asn; Mkt. Asn. Long range planning; forecasting of new technology; correlation techniques in forecasting. Publ: Co-auth, Marketing of chemical products, R.S. Aries & Assocs, 48 & Forecasting in the chemical industry, Chemonomics, Inc, 50; auth, Forecasting chemical demand, Jordan Assocs, 61. Address: W.R. Grace & Co, 3 Hanover Square, New York, N.Y. 10004.

CORAH, DR. NORMAN L(EWIS), b. Kenmore, N.Y, July 18, 33; m. 58; c. 2. PSYCHOLOGY. B.A, Buffalo, 55, Ph.D.(psychol), 60. Instr. psychol, Buffalo, 59-60; res. instr. med. psychol, sch. med, Washington (St. Louis), 60-65, chief res. psychologist, div. child psychiat. & asst. prof. psychol, univ, 61-65; ASSOC. PROF. PSYCHOL. & BEHAV. SCI. IN DENT, STATE UNIV. N.Y. BUFFALO, 65- AAAS; Psychol. Asn; Soc. Res. Child Develop. Individual differences in perception and personality; objective assessment of personality; psychological stress in dentistry; perceptual development. Address: 253 Roycroft Blvd, Snyder, N.Y. 14226.

CORAZZINI, DR. ARTHUR JOHN, b. Chelsea, Mass, Aug. 29, 39; m. 67. ECONOMICS. A.B, Boston Col, 62; M.A, Princeton, 64, U.S. Dept. Health, Ed. & Welfare grant, 65-66, Ph.D.(econ), 67. Res. assoc. ECON, Princeton, 65-66; asst. prof, Dartmouth Col, 66-67; fel. econ. policy, Brookings Inst, 67-68; ASST. PROF, DARTMOUTH COL, 68- Econ. Asn. Economics of education; wage and employment policy in the public sector. Publ: Vocational education—a study of benefits and costs, Indust. Rels. Sect, Princeton, 9/66; When should vocational education begin? winter 67 & The decision to invest in vocational education, summer 68, J. Human Resources. Address: Dept. of Economics, Dartmouth College, Hanover, N.H. 03755.

CORBET, DR. JOHN HARRY, Geog, see Suppl. V to 11th ed, Phys. & Biol. Vols.

CORBETT, DR. JOHN MAXWELL, b. New York, N.Y, July 4, 13; m. 39; c. 3. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Southern California, 37, M.A, 39; fel, Columbia, 46-47, Ph.D, 51. Field supvr, State Mus, N.Mex, 39-40; Sch. Am. Res, 40-41; Inst. Andean Res, Peru, 41; lab. archaeologist, NAT. PARK SERV, U.S. DEPT. INTERIOR, Miss, 47-48, archaeologist, D.C, 48-58, CHIEF ARCHAEOLOGIST, 58- U.S.A, 42-45, 51-52, Capt. Fel. Anthrop. Asn; Soc. Archaeol; Inter-Am. Soc. Anthrop. & Geog. Archaeology of the coast of Ecuador, Peru, southwestern United States, Mississippi and River Basins of the United States. Address: National Park Service, Washington, D.C. 20240.

CORBETT, SISTER THOMAS ALBERT, O.P, b. Columbus, Ohio, Feb. 9, 14. POLITICAL SCIENCE. B.A, Col. St. Mary of the Springs, 35; scholar. & M.A, Ohio State, 36; Ph.D.(polit), Catholic Univ. 50. Res. Asst, U.S. Nat. Youth Admin, 36-39; instr. soc. & polit. sci, Col. St. Mary of Springs, 41-44 & 49-52; asst. prof. polit, Catholic Univ, 52-53; prof. soc. & polit. sci, Albertus Magnus Col, 53-56, acad. dean, 56-62; DIR. INSTNL. RES. OHIO DOMINICAN COL, 62- Polit. Sci. Asn; Asn. Instnl. Res. Political theory; world peace poverty; racial problems. Publ: People or masses: a comparative study in political theory, Cath. Univ, 50; Nation & Masses, In: New Catholic Encyclopedia, McGraw, 67. Address: Ohio Dominican College, Columbus, Ohio 43219.

CORBIN, PROF. ARNOLD, b. New York, N.Y, Feb. 16, 11; m. 37; c. 2. MARKETING. S.B, Harvard, 31, Sheldon traveling fel, 31-32, M.B.A, 34; Ph.D.(mkt. urban land econ), N.Y. Univ, 54. Mem. buying & merchandising staff, R.H. Macy & Co, 34-39; L. Bamberger & Co, 39-40; pres. & owner, Corbin Foods Co, 46-47; chief technologist, inspection serv, U.S. Army Qm. Corps, 47-49; asst. prof. MKT, Baruch Sch, City Col. New York, 47-54; assoc. prof, GRAD. SCH. BUS. ADMIN, N.Y. UNIV, 54-57, PROF, 57- Summers, Ford Found. fel, workshop bus. admin, California, Berkeley, 60, lectr, Brit. Inst. Mgt, 65 & 66. Co-owner, Corbin Assocs, 49-; consult, Esso Chem. Co, 62-; Coca-Cola Export Corp, 63-; Am. Can Co, 64- Mem, Secy. Commerce's Nat. Mkt. Adv. Cmt, 67- Qm.C, 40-46, Lt. Col. Mkt. Asn.(v.pres, 66-67); Arbit. Asn. Publ: Co-auth, Management in marketing, 61 & Decision exercises in marketing, 64, McGraw; auth, Implementing the marketing concept, Brit. Inst. Mgt, 66. Address: New York University Graduate School of Business Administration, 100 Trinity Place, New York, N.Y. 10006.

CORBIN, PROF. CLAIRE, b. New York, N.Y, July 16, 13; m. 37; c. 2. BUSINESS ADMINISTRATION, GUIDANCE. B.S, N.Y. Univ, 33, M.S, 41, Ph.D, 56. Asst. prof. bus. admin, Long Island Univ, 39-44; owner, Guildery Gifts, 44-47; ed. 'Today's Woman,' Fawcett Pubs, 47-48; PRES, CORBIN ASSOCS, 48-; ASSOC. PROF. MKT, SCH. BUS. ADMIN. & DIR, COUNSELING LAB, FORDHAM, 57-, CHMN. DEPT. MKT. & MGT, 67- From asst. prof. to assoc. prof, Hofstra Col, 49-57. Mkt. Asn. New materials and methods for study and teaching of business areas at the college level; orientation for college freshmen; counseling. Publ: Co-auth, Decision exercises in marketing, McGraw-Hill, 64, New trends in American marketing, 65 & Implementing the marketing concept, 66, Brit. Inst. Mgt. Address: Dept. of Marketing & Management, School of Business Administration, Fordham University, Bronx, N.Y. 10458.

CORBIN, PROF. DONALD ALVIN, b. Medford, Ore, Sept. 23, 20; m; c. 2. ECONOMICS. B.S, California, Berkeley, 42, M.B.A, 43, Ph.D.(econ), 54. Asst. acct, California, Berkeley, 42-43, assoc, 47-49, lectr, exten, 46-60, eve, 47-60, Berkeley, 49-54, asst. prof. econ, Riverside, 54-56 & 57-59, assoc. prof, 59-60; expert exam, U.S. Civil Serv. Cmn, 45-46; vis. lectr, sch. indust. mgt, Mass. Inst. Tech, 56-57; assoc. prof, ACCT. & BUS. ECON, HAWAII, 60-63, PROF, 64- Acct. & auditor, private practice, 47- Pac. Mutual Life Ins. Co. summer fel, Found. Econ. Ed, 56; vis. lectr, sch. indust. mgt, Mass. Inst. Tech, 56-57; Robert G. Sproul faculty summer fel, 59. Consult. economist & accountant, Econ. Res. Center, Hawaii, 60-61, consult. res, bur. bus. res, 61-63. Mem, Univ. California Statewide Exten. Adv. Bd, 59-60, chancellors acad. adv. bd, Riverside, 59-60; cmt. income & expenditures, Econ. Res. Center, 62. U.S.A, 45-46, Sgt. Econ. Asn; Acct. Asn; Nat. Asn. Acct. Publ: Accounting and economic decision, Dodd, 64; The revolution in accounting, 10/62 & Comments on the accretion concept of income, 10/63, Acct. Rev. Address: College of Business Administration, University of Hawaii, 2500 Campus Rd, Honolulu, Hawaii 96822.

CORBIN, PROF. HARRY F(INCH), b. Latham, Kans, Feb. 7, 17; m. 40; c. 3. POLITICAL SCIENCE. A.B. Wichita, 40; B.D, Chicago, 43; LL.B, Kansas, 49; LL.D, Southwest. Col, 55; L.H.D, Phillips, 56. Asst. prof. polit. sci, relig. & philos, WICHITA STATE, 46-49, pres, 49-63, PROF. POLIT. SCI, RELIG. & PHILOS, 63- U.S.N, 43-46, Lt. Polit. Sci. Asn; Oriental Soc; Acad. Polit. & Soc. Sci. History of religions; public law. Address: 201 S. Ridgewood, Wichita, Kans. 67218.

CORBIN, DR. HORACE H(ARLAN), b. Albany, N.Y, Mar. 26, 15; m. 43; c. 5. PSYCHOLOGY. A.B, Cornell, 37; fel, Queens Col.(N.Y), 39-41; M.A, Columbia, 40, Ph.D.(psychol), 42; fel, City Col. New York, 41. Asst. psychol, Columbia, 38-39, 41-42; res. psychologist, personnel res. sect, Adjutant Gen. Off, 46-47; asst. prof. PSYCHOL. & ED, MT. HOLYOKE COL, 47-50, assoc. prof, 50-59, PROF, 59-, dir. psychophys. res. unit, 51-58, Nat. Sci. Found. prin. investr, 59-60. U.S.A.A.F, 42-46, Res, 46-52. AAAS; Psychol. Asn. Psychophysics of visual discrimination; psychological measurement, problems of scaling and discrimination of subjective relative frequency; subjective statistics; probability. Address: Dept. of Psychology, Mt. Holyoke College, South Hadley, Mass. 01075.

CORBIT, DR. JOHN DARLINGTON, b. Phildaelphia, Pa, May 30, 38; m. 67. PSYCHOLOGY. B.A, Swarthmore Col, 61; Ph.D.(psychol), Pennsylvania, 64. Nat. Insts. Health fel, 64-65; ASST. PROF. PSYCHOL, BROWN, 65- AAAS; Psychol. Asn; Psychonomic Soc. Central nervous system control of the regulation of food and water intake, and body temperature. Publ: Effect of intravenous sodium chloride on drinking in the rat, 65, Hyperphagic hyperreactivity to adulteration of drinking water with quinine hydrochloride, 65 & Effect of hypervolemia on drinking in the rat, 67, J Comp & Physiol Psychol. Address: Dept. of Psychology, Brown University, Providence, R.I. 02912.

CORBRIDGE, PROF. IVAN LAWRENCE, b. Layton, Utah, Feb. 18, 17; m. 42; c. 4. AGRICULTURAL ECONOMICS. B.S, Utah State, 47; M.S, Chicago, 49; Ph.D.(agr. econ), Washington State, 52. Instr. AGR. ECON, Washington State, 49-52; PROF. & CHMN. DEPT, BRIGHAM YOUNG, 52- Tech. adv, Nat. Inst. Farming Tech, Argentina, 66-68. U.S.A.A.F, 42-45, Maj. Agr. Econ. Asn. Production economics. Address: Dept. of Agricultural Economics, Brigham Young University, Provo, Utah 84601.

CORBY, PHILIP G(ARNER), Mkt, see 10th ed, Soc. & Behav. Vols, deceased 64.

CORCORAN, PROF. BOBBY NEAL, b. Wheeler, Tex, Aug. 14, 34; m. 56; c. 4. ECONOMICS. B.B.A, Oklahoma, 59. Asst. Prof. ECON, MIDDLE TENN. STATE, 62-66, ASSOC. PROF, 66- U.S.M.C, 54-57, Sgt. Econ. Asn. Efficacy of foreign aid to accelerate economic development of developing nations, especially the Alliance for Progress program. Address: Dept. of Economics, Middle Tennessee State University, Murfreesboro, Tenn. 37130.

CORCORAN, DR. THOMAS JOSEPH, Forest Econs & Opers. Res, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CORD, JOEL (HARVEY), Econ, Economet, see 10th ed, Soc. & Behav. Vols.

CORD, DR. STEVEN B, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CORDASCO, DR. FRANCESCO, b. New York, N.Y, Nov. 2, 20; m. 46; c. 2. SOCIOLOGY. B.A, Columbia, 42; M.A, N.Y. Univ, 45, Ph.D.(sociol. ed), 59. From instr. to assoc. prof. Eng, L.I. Univ, 46-53; adj. lectr. ed, Fairleigh Dickinson, 53-58; lectr, Seton Hall, 58-63; PROF. ED, MONTCLAIR STATE COL, 63- Summers, vis. prof, City Univ. New York, 59, 66, 68, N.Y. Univ, 62. Fel. Sociol. Asn; Soc. Adv. Ed; Ed. Res. Asn; Hist. Ed. Soc; Brit. Sociol. Asn. Sociology of education; European and comparative education; eighteenth century political and social history. Publ: Co-auth, Italo-American child in the American school, Brill, 67 & The urban community and the school, Am. Book Co, 68; auth, Jacob Riis revisited: poverty in another era, Doubleday, 68. Address: Dept. of Education, Montclair State College, Upper Montclair, N.J. 07043.

CORDIER, DR. SHERWOOD S, Twentieth Century Europe, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CORDREY, PROF. JOHN B, b. Mansfield, Ohio, Feb. 21, 39; m. 62; c. 3. ECONOMICS. B.S, Ohio State, 61, M.S, 62. Teacher, pub. sch, Ohio, 62-63; instr. agr. policy & price theory, N.C. State, 66-67; ASST. PROF. ECON, WRIGHT STATE, 67- Economic price theory; econometrics; agricultural policy. Address: Dept. of Economics, Wright State University, Dayton, Ohio 45431.

COREY, PROF. C(YRUS) STANLEY, b. Blaine, Maine, Feb. 25, 08; m. 34; c. 2. ECONOMICS. A.B, Colby Col, 28; A.M, Illinois, 31; Ph.D.(econ), 33. Prin, Aroostook Cent. Inst, Maine, 33-34; prof. ECON, Keuka Col, 34-37; assoc. prof, KENT STATE, 37-46, PROF, 46-, CHMN. DEPT, 66- U.S.N, 43-45, Lt. Econ. Asn; Finance Asn; Tax Inst. Taxation and other aspects of public finance; money and banking. Address: 573 Vine St, Kent, Ohio 44240

COREY, PROF. STEPHEN M(AXWELL), b. Rochester, N.Y, July 21, 04; m. 29, 53; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Eureka Col, 26, LL.D, 60; A.M, Illinois, 27, Ph.D.(ed. psychol), 30. Instr. ed. psychol, Illinois, 28-30; assoc. prof, DePauw, 30-31; prof, Nebraska, 31-36; prof. ed. & asst. dean grad sch, Wisconsin, 36-40; prof. ed. psychol, Chicago, 40-48, supt. lab. schs. 40-44, dir. audiovisual instr. materials center, 44-48, dean students, soc. sci. div, 44-48; PROF. ED, Teachers Col, Columbia, 48-65, dean, 55-59, chmn. dept. psychol. founds. & servs, 55-59; MIAMI (FLA), 65- Exec. officer, Horace Mann-Lincoln Inst. Sch. Exp, 48-55, dean, 55-59. Consult, Encyclop. Britannica Films, 44-48; res. consult, teachers col, Columbia-Int. Coop. Admin. contract, Nat. Inst. Basic Ed, New Delhi, India, 59-62. Trustee, Eureka Col, 40. AAAS; fel. Psychol. Asn. Psychology of learning; human relations; psychology and administration. Publ: Action research to improve school practices; co-auth, Instructional leadership; Helping other people change, Ohio State, 63. Address: School of Education, University of Miami, Coral Gables, Fla. 33124.

CORFIELD, PROF. GEORGE S(IBLEY), b. Cato, N.Y, June 17, 95; m. 38. GEOGRAPHY. B.Ed, Clark, 30, M.A, 31. Prof. GEOG, State Teachers Col, 32-43; asst. prof, Okla. Agr. & Mech. Col, 46-53; prof. & head dept, Nebr. Wesleyan, 54-66, EMER. PROF, 66- Vis. prof, Miss. State, summer 66; Oklahoma, 66-67. Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic and physical geography. Publ: Netherlands West Indies, Life and Work. Address: 3920 N. 42nd St, Lincoln, Nebr. 68504.

CORKERN, DR. RAY S, b. Isabel, La, Aug. 30, 29; m. 65; c. 1. AGRICULTURAL ECONOMICS. Ph.D.(agr. econ), La. State, 62. AGR. ECONOMIST, U.S. DEPT. AGR, 62- Agr. Econ. Asn; Statist. Asn; Can. Agr. Econ. Asn. Agricultural marketing. Address: Economics Research Service, U.S. Dept. of Agriculture, Washington, D. C. 20250.

CORKRAN, PROF. HERBERT, JR, b. Baltimore, Md, Jan. 16, 24; m. 48; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Hopkins, 45, M.A, 46; Ph.D, Indiana, 61. For. affairs officer, Wash. Pub. Liaison & Spec. Consular Serv, U.S. Dept. State, 46-50, v.consul, Am. Consulate, Le Havre, France, 50-52, for. serv. officer, off. security & consular affairs, 52-56, Am. Consulate, Aruba, Netherlands Antilles, 56-58; asst. prof. GOVT, SOUTHERN METHODIST, 61-65, ASSOC. PROF, 65-, ACTING CHMN. DEPT, 67- Polit. Sci. Asn. International affairs; international organization, especially in Caribbean area. Publ: From formal to informal international cooperation in the Caribbean, Arnold Found. Monogr, 11/66. Address: Dept. of Government, Southern Methodist University, Dallas, Tex. 75222.

CORLEY, DR. EDWARD McCRORY, b. Mattoon, Ill, Jan. 11, 35; m. 64. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Colorado State, 57; M.S, Illinois, 58; Eastern Illinois, fall 60; Chicago Bd. Trade fel, 62-63; Ph.D.(agr. econ), Oklahoma State, 64. ASST. PROF. agr. econ, Clemson, 64-67; ECON, EASTERN ILLINOIS, 67- U.S.A, 58-60. Agr. Econ. Asn. Grain-marketing costs for country elevators; consumer preference testing of modified milk beverages. Publ: Co-auth, Effects of wheat production variations on country elevator handling costs in northwestern Oklahoma, In: Oklahoma State Univ. Processed Series P-516, 9/65 & Consumer preference for modified whole beverage milks in South Carolina, S.C. Agr. Exp. Sta. Bull. 522, 12/65; auth, Contracting as a coordinating tool, In: Organizational arrangements and future requirements for processing and marketing Southeastern food products, Clemson Univ. AE 293, 7/66. Address: Dept. of Economics, Eastern Illinois University, Charleston, Ill. 61920.

CORLEY, DR. KARL C, JR, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CORLIS, DR. RAHE B(ASSETT), b. Cincinnati, Ohio, Aug. 30, 33; div. CLINICAL PSYCHOLOGY. B.A, Florida, 55, M.A, 57, Ph.D, 60. Psychologist, Columbus Psychiat. Clin, Ohio, 60-62; Columbus Psychiat. Inst. & Hosp, 62-63; COORDINATOR CLIN. PSYCHOL. TRAINING, OHIO STATE UNIV. HOSP, 63- Psychol. Asn. Factors involved in initial interviewing; treatment prognosis of patients seeking outpatient psychiatric treatment. Address: Clinical Psychological Training, Ohio State University Hospital, Columbus, Ohio 43210.

CORMACK, PROF. ROBERT H, b. Dayton, Ohio, Feb. 20, 34; m. 61; c. 1. PSYCHOLOGY. A.B, Cincinnati, 55, M.A, 56, U.S. Pub. Health Serv. fel, 60-61, Ph.D.(exp. psychol), 62. Res. asst, Cincinnati, 58-60, asst. & lectr, 61-62; asst. prof. PSYCHOL, Alfred, 62-65, assoc. prof. & chmn. dept, 65, 66; PROF. & HEAD PSYCHOL. & SOCIOL. DEPT, ARMSTRONG STATE COL, 66- Res. psychologist, Longview State Hosp, 61-62. U.S.A.F, 56-58, 1st Lt. AAAS; Psychol. Asn. Physiological basis of visual perception; perception of motion; binocular interaction. Publ: Response to change of pattern and of depth in the rat, Psychol. Reports, 62; Ocular tracking as a measure of autokinetic movement, 63 & Necker cube perspective dominance as a function of retinal disparity, 68, Perceptual Motor Skills. Address: Dept. of Psychology & Sociology, Armstrong State College, Savannah, Ga. 31406.

CORMAN, PROF. BERNARD R(OBERT), b. Greensburg, Pa, Jan. 26, 15; m. 38. EDUCATIONAL PSYCHOLOGY. A.B, Akron, 38; M.A, Columbia, 50, Ph.D, 54. Res. dir, citizenship ed. proj, teachers col, Columbia, 50-54; assoc. prof. ED. PSYCHOL, Florida, 54-56; prof. Mich. State, 56-66, res. dir, student teacher exp. proj, 58-66; PROF. & HEAD DEPT, ALBERTA, 66- U.S.N, 42-44. Address: Faculty of Education, University of Alberta, Edmonton, Alta, Can.

CORMIER, DR. BRUNO M, b. Laurierville, Que, Nov. 14, 19; m. PSYCHIATRY. B.A, Montreal, 42, M.D, 47; Allan Mem. Inst, 48-50; Maudsley Hosp, London Psychiat. Inst, 50-53; dipl. psychiat, McGill, 52. Asst. prof. psychiat, McGILL, 53-57, assoc. prof, 58-67, DIR. CRIMINAL RES, 67-, LECTR. PSYCHIAT, 63-; PSYCHIATRIST IN CHIEF, ST. VINCENT DE PAUL PENITENTIARY, 57- Clin. asst. psychiat, Royal Victoria Hosp, Montreal, 53-55, assoc. psychiatrist, 56-63; consult, N.Y. State Correctional Serv. Am. Psychiat. Asn; Can. Psychiat. Asn; Can. Corrections Asn; Can. Psychoanal. Soc. Clinical criminology; psychopathology of deprivation of liberty; persistent criminality. Publ: Depression and persistent criminality, Can. Psychiat. Asn. J, Spec. Suppl, Vol. 2, 66; On the history of men and genocide, Can. Med. Asn. J, 2/66; A criminological classification of criminal process, In: Crime, law and corrections, C.C. Thomas, 66. Address: Dept. of Psychiatry, McGill University, Montreal, Que, Can.

CORNEHLSEN, PROF. JOHN HENRY, JR, b. New York, N.Y, Dec. 27, 06; m; c. 1. PSYCHOLOGY. A.B, Dartmouth Col, 29; M.A, Harvard, 38; Columbia, 36-37; Rockefeller fel, Bennington Col, 40-41; univ. fel, Stanford, 41-42, Ph.D.(psychol. & ed), 42. Dept. store buyer, James McCreary & Co, N.Y, 29-31; instr. & asst. coach, Dartmouth Col, 31-32; instr. Worcester Acad, 34-35; ed. & dist. dir, Civilian Conserv. Corps, N.Y, 35-37; asst. prof. & dir. res, St. Lawrence Col, 37-39; organizing & develop. personnel serv, Stanford, 39-40; sr. ed. specialist, Off. Price Admin, 42-43; consult. psychologist, Stevenson, Jordan & Harrison, N.Y, 46-47; dean men & assoc. prof. psychol, San Francisco State Col, 47-49; prof. guid. & personnel admin, N.Y. Univ, 49-51; consult, human resources res. & develop. bd, U.S. Dept. Defense, 51-54; bus. & indust, Mahler Assoc, 54-63; PROF. PSYCHOL, C.W. POST COL, LONG ISLAND, 63- Pres, Cornehlsen & Assocs, 68- Dipl. coun. psychol, Am. Bd. Exam. Prfnl. Psychol. Consult. for vet, P.R. U.S.N.R, 43-46, Lt. Comdr. Fel. Psychol. Asn. Naval per-

sonnel selection; executive selection and appraisal; career development and counseling; presonnel selection and guidance. Address: Depts. of Psychology & Business Administration, C.W. Post College, Long Island University, Greenvale, L.I, N.Y. 11548.

CORNELISON, DR. FLOYD S, JR, Psychiat, see Suppl. IV to 11th ed, Phys. & Biol. Vols.

CORNELISSEN, DR. FRED(ERICK) C(HRISTIAN), Econ, Geog, see 10th ed, Soc. & Behav. Vols.

CORNELIUS, PROF. EDWARD G(ORDON), b. Berea, Ky, Feb. 13, 96; m. 32. MARKETING, ECONOMICS. A.B, Maryville Col, 25; A.M, Vanderbilt, 26, Ph.D, 36; Indust. Col. Armed Forces, 49-51. Supv. prin, pub. schs, Franklin Co, N.C, 26-28; head dept. econ. & bus. admin, Southwest. Col, 29-34; head secretarial div, Ga. State Col. for Women, 34-37; assoc. prof. commerce & finance, Bucknell, 37-46; prof. mkt. & mgt. & chmn. dept, La. Polytech, 47-51; PROF. mgt. & head dept, Tenn. Polytech, 51-67; BUS. ADMIN, BELMONT COL, 67- Soc. Adv. Mgt; Mgt. Asn; Arbit. Asn; Inst. Mgt. Business; management. Publ: Consumers in wartime; Pleasure boating industry in Tennessee; Taxation in Kansas. Address: Dept. of Business Administration, Belmont College, Nashville, Tenn. 37212.

CORNELIUS, PROF. WILLIAM G(RIGSBY), b. Nashville, Tenn, Oct. 16, 12; m. 39; c. 1. POLITICAL SCIENCE. B.A, Vanderbilt, 34, M.A, 35; Ph.D. (pub. law, govt), Columbia, 56. Soc. sci. specialist, Library of Cong, 37-43; asst. prof. govt, Miami (Fla), 47-52; POLIT. SCI, Florida, 54-55; lectr, Wisconsin, 56; assoc. prof, Willamette, 56-58; Agnes Scott Col, 58-68, PROF, 68; SOUTH. ORE. COL, 68- U.S.A, 43-46. Polit. Sci. Asn; Am. Soc. Int. Law. International relations, organization and law; political processes and parties; changing Southern politics; legal and institutional bases of world order; county, congressional district and state Democratic executive committees. Publ: Ed, Southeastern state legislatures, Emory, 68; auth, The General Assembly of Georgia, In: Southeastern state legislatures, Emory, 68; Latin American patterns of voting in the United Nations. Address: Social Sciences Division, Southern Oregon College, Ashland, Ore. 97520.

CORNELL, DR. F(RANCIS) G(RIFFITH), b. Red Springs, N.C, Oct. 10, 06; m. 28; c. 2. STATISTICS, EDUCATION. A.B, Columbia, 27, M.A, 30, Ph.D. (ed), 36. Teacher high sch, N.J, 32-34; res. assoc, Teachers Col, Columbia, 34-39; dir. res. & sec. ed, Harrisburg, Pa, 39-40; asst. to cmnr. defense, U.S. Off. Ed, 40-41, asst. dir. voc. war training, 41-45, chief res. & statist, 45-47; prof. ed. & dir. bur. res. & serv, col. ed, Illinois, 47-55; ed. consult, Engelhardt, Engelhardt, Leggett & Cornell, 55-60; PRES, ED. RES. SERV, INC, 60- Consult, cmt. labor & pub. welfare, U.S. Senate, 47; Off. Mil. Govt. of U.S. in Germany, U.S. Dept. Army, Nuremburg, 48. U.S.A.F, 50-51, Lt. Col. Fel. AAAS; fel. Statist. Asn; Psychol. Asn; Psychomet. Soc; Inst. Math. Statist; Ed. Res. Asn.(pres, 55). Educational administration and finance; educational evaluation. Publ: Essentials of educational statistics; Measure of taxpaying ability of local school units; co-auth, American schools in transition. Address: Educational Research Services, Inc, 7 Holland Ave, White Plains, N.Y. 10603.

CORNELL, DR. JAMES M(ORRIS), Animal Behav. See 11th ed, Suppl. II to Phys. & Biol. Vols.

CORNELL, PROF. JOHN B(ILHEIMER), b. Chicago, Ind, Nov. 25, 21; m. 53; c. 1. ANTHROPOLOGY. Chinese scholar, 47-48; Soc. Sci. Res. Coun. fel, Japan, 50-51; Ph.D, Michigan, 53. Lectr. ANTHROP, Michigan, 53-54, instr, 54; Wayne, 54-55; asst. prof, TEXAS, 55-61, assoc. prof, 61-65, PROF, 65-, PROJ. DIR, 65-, chmn. undergrad. prog. Asian studies, 59-64, acting chmn. dept. anthrop, 62-64. Fulbright res. prof, Kyoto, Japan, 57-58; vis. asst. prof, Michigan, 58-59; vis. prof. Sch. Sociol. & Polit. São Paulo, Brazil, 65-66; Nat. Sci. Found. res. grant, Texas-Cornell field study in Brazil, 65-68; Wenner-Gren Found. res. grant, 66-67. U.S.A, 43-46, Capt. AAAS; Anthrop. Asn; Ethnol. Soc; Asn. Asian Studies; Soc. Appl. Anthrop; Japanese Soc. Ethnol. Acculturation and assimilation of Japanese immigrants and their descendants in southern Brazil; sociocultural integration of Japanese immigrants in the New World; theory of contexts and processes of acculturation. Publ: Co-auth, Two Japanese villages, bibliographic materials in the Japanese languages in Far Eastern archaeology and ethnology & Japanese and their descendants in Brazil, Centro de Estudos Nipo-Brasileiros, 67. Address: Dept. of Anthroplogy, University of Texas, Austin, Tex. 78712.

CORNELL, PROF. MERRISS, b. Ohio, Nov. 3, 11; m. 47; c. 2. SOCIAL WORK, STATISTICS. B.Sc, Otterbein Col, 33; M.A, Ohio State, 37; Columbia. Instr. res. & statist, sch. soc. admin, Ohio State, 40-41; statistician, prod. div, U.S. Army Air Force Material Command, Ohio, 42; res. dir. hosp. surv, State Dept. Health, 47; asst. prof. SOC. WORK RES. & STATIST, sch. soc. admin, OHIO STATE, 48-54, assoc. prof, 54-56, PROF, SCH. SOC. WORK, 56-, lectr, med. sch, 54-60. Lectr, sch. soc. work, Cincinnati, 63-Consult, United Community Coun. Columbus, Ohio, 52-; res. consult, Nat. Conf. Soc. Work, 52- Mem. nat. res. adv. cmt, United Community Funds & Couns. Am, 58-63. U.S.A.A.F, 43-46, Lt. AAAS; Am. Statist. Asn; Pop. Asn; Acad. Cert. Soc. Workers; Royal Statist. Soc. Social work; teaching research method in social science; population and vital statistics. Publ: An analysis of attenders in 1953, Bull. Nat. Conf. Soc. Work; Census tract street directory for Columbus, Ohio; co-auth, Our hospital needs. Address: 201 S. State St, Westerville, Ohio 43081.

CORNELL, DR. P(ETER) M(cCAUL), b. Ft. William, Ont, Nov. 28, 26; m. 49; c. 3. ECONOMICS. B.A, Queen's (Ont), 51; M.A, 52; fel, Harvard, 54-56, Ph.D.(econ), 56. Res. officer, Bank of Can, 56-66; ECONOMIST, ECON. COUN. CAN, 66- Res. economist, Royal Cmn. on Pub, 61. R.C.N, 45-47, Comdr. Am. Econ. Asn; Can. Econ. Asn. Urban economics; money, banking and international trade, especially international financial problems; public finance. Publ: Exchange flexibility in Canada: some underlying factors, In: Public policy; Economic implications of overflow advertising, In: Report of the Royal Commission on Publications. Address: Economic Council of Canada, P.O. Box 527, Station B, Ottawa, Ont, Can.

CORNELL, DR. RICHARD, b. Glen Ridge, N.J, Nov. 11, 27; m. 67. POLITICAL SCIENCE. B.A, Ohio State, 52; M.I.A, Columbia, 54, cert, Russian Inst, 57, Ph.D.(pub. law, govt), 65. For. affairs officer, Off. Secy. Defense, 54-59; participant, U.S-U.S.S.R. ed. exchange prog, 60-61; lectr. govt, Barnard Col, Columbia, 63-64; from lectr. to ASSOC. PROF. POLIT. SCI, STATE UNIV. N.Y. BUFFALO, 64- U.S.N, 46-48. Asn. Adv. Slavic Studies. History of the national and international communist movement; comparative study of contemporary non-ruling communist movements. Publ: Youth and communism, Walker, 65; Comparative analysis of communist movements, J. Polit, 2/68; Students and politics in the communist countries of Eastern Europe, Daedalus, winter 68. Address: Dept. of Political Science, State University of New York at Buffalo, Buffalo, N.Y. 14214.

CORNELL, PROF. RICHARD G(ARTH), Statist, see 11th ed, Phys. & Biol. Vols.

CORNELL, PROF. WILLIAM A(UGUSTUS), Sociol, see 10th ed, Soc. & Behav. Vols. Latest known address: 435 Starin Rd, Whitewater, Wis. 53190.

CORNFIELD, JEROME, Statist, see 11th ed, Phys. & Biol. Vols.

CORNOG, DOUGLAS Y(ATES), b. Philadelphia, Pa, Apr. 10, 20; m. 55. INDUSTRIAL & EXPERIMENTAL PSYCHOLOGY. B.S, Pa. State, 52, M.S, 53; Pennsylvania, 58-59. Transportation officer relief work, Europe & Middle East, Am. Friends Serv. Cmt, 47-49; indust. psychologist, H.L. Yoh Co, Inc, 53-55; res. assoc. eng. psychol, Courtney & Co, Inc, 55-58; sr. engr, air arm & systs. div, Westinghouse Elec. Corp, 59-62; res. psychologist, Nat. Bur. Standards, D.C, 62-67; CHIEF HUMAN FACTORS BR, BUR. RES. & ENG, U.S. POST OFF. DEPT, 67- U.S.A.A.F, 41-45, M/Sgt. Psychol. Asn; Statist. Asn; Human Factors Soc. Engineering psychology problems of information handling and communication systems; systems research involving experimentation, simulation and operational design. Publ: Co-auth, Legibility of alphanumeric characters and other symbols, Part I, 12/64 & Part II, 2/67, Nat. Bur. Standards; co-auth, Annotated bibliography of applied physical anthropology in human engineering. Address: 2853 Ontario Rd. N.W, Apt. 405, Washington, D.C. 20009.

CORNOG, DR. GEOFFREY Y(ATES), b. Philadelphia, Pa, Aug. 30, 23; m. 51; c. 2; div; m. 64. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Antoich Col, 52; fel, Minnesota, 53-55, M.A, 54, Ph.D.(polit. sci), 60. Exec. dir, Minn. Citizenship Clearing House, 56-57; asst. prof, Mich. State, 57-60; staff ed. & pub. officer, Am. Soc. Pub. Admin, 61-63; assoc. prof. inst. govt. & dept. polit. sci, GEORGIA, 64-66, ASSOC. PROF. POLIT. SCI. & DIR. INTRODUCTORY PROGS, 66- Assoc. prof, eve. prog, Northwestern, 61-62; Roosevelt, 61-63; lectr, downtown center, Chicago, 62-63. Consult, State Dept. Aeronaut, Mich, 57. U.S.C.G, 41-44; U.S.N.R, 44-45. Polit. Sci. Asn; Soc. Pub. Admin. Effects of the interaction between individuals and groups in organizations, especially government organizations in the political environment. Publ: Co-auth, Public administration, 67 & Electronic data processing systems in public management, 68, Rand McNally; auth, Michigan Department of Aeronautics: an organization survey. Address: 515 Rivermont Rd, Athens, Ga. 30601.

CORNOG, DR. JUNE R(OBERTS), b. Tacoma, Wash, June 27, 13; m. 55. INDUSTRIAL & EXPERIMENTAL PSYCHOLOGY. B.A, Pa. State, 34, Ph.D, 55; Temple, 37-38; Lit.M, Pittsburgh, 38; M.S, George Washington, 52. Instr. secretarial sci, Williamsport-Dickinson Jr. Col, 38-40; assoc. prof. commercial ed, Shippensburg State Col, 40-42; test constructor, cent. exam. bd, Naval Air Training Command, Pensacola, Fla, 47-49; teacher, high sch, Fla, 49-50; motivation researcher, Nat. Analysts, Inc, Phila, Pa, 56-58; mkt. res. analyst, Campbell Soup Co, Camden, N.J, 58-59; RES. PSYCHOLOGIST, NAT. BUR. STANDARDS, D.C, 61- Lectr, human eng. summer conf, Univ. Michigan, 66-68. U.S.N.R, 42-47, Res, 47-, Comdr. AAAS; Psychol. Asn; Statist. Asn. Human problems connected with development or modernization of systems; attitude measurement and survey techniques. Publ: Address encoding—a study of the double-binary keyboard in machine sorting of mail, Am. Soc. Mech. Eng, 10/63; How people influence experimental results, Am. Statist. Asn. Soc. Statist. Proc, 63; Search methods used with transistor patent applications, Inst. Elec. & Electronics Engrs. Spectrum, 2/66. Address: Ontario Apts, Apt. 405, 2853 Ontario Rd. N.W, Washington, D.C. 20009.

CORNS, PROF. MAMIE E(LLEN), b. Syracuse, Nebr, Nov. 22, 90. ECONOMICS. B.S, Nebraska, 29, A.M, 30. From instr. to assoc. prof. econ. & bus. admin, NEBR. WESLEYAN, 29-61, EMER. PROF. BUS. ADMIN, 61- Address: 2729 N. 46th, Lincoln, Nebr. 68504.

CORNSWEET, PROF. TOM N(ORMAN), Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CORNWALL, DR. JOHN LALLY, b. Spencer, Iowa, Apr. 27, 28; m. 51; c. 2. ECONOMICS. B.A, Iowa, 50; M.Sc, London, 52; Ph.D.(bus. cycles), Harvard, 58. Instr. ECON, TUFTS, 57-58, asst. prof, 58-65, ASSOC. PROF, 65-Economics of growth; portfolio management of commercial banks. Publ: Economic implications of the Klein-Goldberger model & co-auth, Problems of growth policy, Rev. Econ. & Statist. Address: Dept. of Economics, Tufts University, Medford, Mass. 02155.

CORNWELL, DR. ANNE CHRISTAKE, b. Philadelphia, Pa, June 1, 31; m. 58; c. 1. PHYSIOLOGICAL PSYCHOLOGY. B.S, City Col. New York, 52, fel, 52-55, M.A, 55; Ph.D, McGill, 58. Res. psychologist, Jewish Hosp, Brooklyn, N.Y, 54-55; asst. physiol. psychol, McGill, 55-57; staff scientist psychopharmacol, Jackson Mem. Lab, 57-59; sr. fel. neuro-pharmacol, ALBERT EINSTEIN COL. MED, 60-63, ASST. RES. PROF. DEVELOP. NEUROPSYCHOL, 63- AAAS; Psychol. Asn; Int. Soc. Clin. Electroretinography. Comparative psychology; brain mechanisms and behavior; developmental sensory physiology. Publ: Conditioned responses in young puppies, J. Comp. & Physiol. Psychol; Temporal conditioning of the arousal response, Physiol. & Behav, 1/67; Electrophysiological retinal changes and visual deprivation, Vision Res, 12/67. Address: Dept. of Pediatrics, Albert Einstein College of Medicine, Yeshiva University, New York, N.Y. 10461.

CORNWELL, PROF. CLIFTON, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

CORNWELL, PROF. ELMER E(CKERT), JR, b. Holyoke, Mass, July 6, 24; m. 49, 68; c. 2. POLITICAL SCIENCE. A.B, Williams Col, 48; A.M, Harvard, 51, fel, 51-53, Ph.D, 53. Instr. polit, Princeton, 53-55; asst. prof. POLIT. SCI, BROWN, 55-60, assoc. prof, 60-65, PROF, 65-, CHMN. DEPT, 62- U.S.N, 43-46. Polit. Sci. Asn. Political parties and leadership. Address: Dept. of Political Science, Brown University, Providence, R.I. 02912.

CORNWELL, PROF. HENRY G(ILBERT), b. Newport News, Va, Dec. 15, 11; m. 46; c. 3. PSYCHOLOGY. A.B, Lincoln (Pa), 33; M.A, Pennsylvania, 38, Ph.D.(psychol), 52. Ed. adv, Civilian Conserv. Corps, 38-42; translator, Off. of Censorship, N.Y, 42-43; instr. PSYCHOL, LINCOLN (PA), 46-48, asst. prof, 48-52, assoc. prof, 52-59, PROF. & HEAD DEPT, 59- Peace Corps field assessment officer, 63-67. U.S.A, 43-46. Psychol. Asn. Learning; perception. Publ: Prior experience as a determinant of figure-ground organization, 63 & Effect of training on figure-ground organization, 64, J. Exp. Psychol; Personality variables in autokinetic figure writing, Perceptual & Motor Skills, 66. Address: P.O. Box 114, Lincoln University, Pa. 19352.

CORONIOS, PROF. JAMES D(EMOSTHENES), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

COROTTO, DR. LOREN V(INCENT), b. Hollister, Calif, Nov. 20, 29; m. 57; c. 5. CLINICAL PSYCHOLOGY. B.A, San Jose State Col, 51, M.A, 52; Ph.D, Houston, 58. Lectr. psychol. remedial reading & study skills, Houston, 56-57, asst. reading clin, 56-57; intern clin. psychol, Southwest Med. Sch, Texas, 57-58; clin. psychologist, DEPT. MENT. HYG, NAPA STATE HOSP, IMOLA, 58-65, SR. PSYCHOLOGIST, 65- Consult, spec. teaching proj, sch. nursing, California, San Francisco, 65- U.S.A, 53-55, Res, 55-61, Sgt. AAAS; Psychol. Asn. Assessment techniques; personality theory; decision and choice behavior; education methodology; volunteer behavior; cognitive and intellectual processes; emotiona' influences on economic decision-making. Publ: Effectiveness of the Bender-Gestalt in differentiating a flight group from an aggressive group of adolescents; Use of Bender-Gestalt cut-off scores in identifying juvenile delinquents; The excluded research subjects impact on results, J. Nerv. & Ment. Diseases, 65. Address: 1056 Vassar Dr, Napa, Calif. 94558.

CORREA, DR. HECTOR, b. Quito, Ecuador, Jan. 28, 30; m. 58; c. 5. MATHEMATICAL ECONOMICS, EDUCATION. L.L.B, Cent. Univ. Ecuador, 53; M.S, Kansas, 56; Madrid, 57; Ph.D.(math. econ), Netherlands Sch. Econ, 61. Prof. math, statist. & econ, Cent. Univ. Ecuador, 57-58; Int. Labour Orgn. expert, Latin Am. Inst. Soc. & Econ. Develop, Santiago, Chile, 62-63; staff mem, Int. Inst. Ed. Planning, Paris, 64-65; ASSOC. PROF. ECON, Wayne State, 66-67; TULANE, 67- Res. dir. inst. econ. invest, Cath. Univ. Ecuador, 57-59; head dept. statist, Ecuadorean Nat. Planning Bd, 57-59. Adv, Pichincha Chamber of Indust, Ecuador, 59-60; consult, Orgn. Econ. Coop. & Develop, Paris, 65; Agency Int. Develop. Proj. Ed. & Soc. Develop, 66; Dept. Econ. & Soc. Affairs, UN, 66; dept. ed, Govt. of P.R, 66. Ecuadorean Army. Economet. Soc; Econ. Asn. Construction of mathematical models for analysis or planning of the economy, educational system, health and employment. Publ: The economics of human resources, North Holland, 63; Health planning, Kyklos, Band IV, 67; A model of the psychological and social determinants of education, Dept. Health, Ed. & Welfare, (in press). Address: Dept. of Economics, Tulane University, New Orleans, La. 70118.

CORRELL, PROF. PAUL THOMAS, b. Brooklyn, N.Y, Mar. 11, 22; m. 46; c. 1. PSYCHOLOGY. B.S, Ball State Teachers Col, 51, M.A, 52; Ed.D, Missouri, 55. Counsr, testing & counseling serv, Missouri, 52-55; asst. prof. guid. & spec. ed, Southern Illinois, 55-56; psychol, Ohio State, 56-60, assoc. prof, 60-64, supvr. counseling div, counseling & testing center, 57-64, sr. counsr, 56-57; PROF. ED. & DIR. COUNSELING CENTER, MISSOURI, KANSAS CITY, 64- Consult, Vet. Admin, 59-; Int. Farm Youth Exchange, 55-; voc. consult, bur. hearings & appeals, Soc. Security Admin, 63-67. Med. Dept, U.S.A, 43-45. Psychol. Asn; Personnel & Guid. Asn. Counseling theory and practice; individual productivity in varying social environments. Publ: Role conflicts among student personnel workers, J. Counseling Psychol; co-auth, Evaluating psychological interns, J. Consult. Psychol, 66. Address: Counseling Center, University of Missouri, Kansas City, Mo. 64110.

CORRELL, DR. ROBERT EUGENE, b. Paducah, Ky, Aug. 27, 29; m. 51; c. 2. PSYCHOLOGY. B.A, Iowa, 52, M.A, 54, Ph.D, 56. Res. assoc. psychiat. & anat, Iowa, 56-57; intern clin. psychol, psychopathic hosp, Iowa, 56-57; res. asst, dept. neurosurg. & clin. psychologist HARTFORD HOSP, CONN, 57-58, CONSULT. PSYCHOL. & NEUROPHYSIOL, 58-, SR. PSYCHOLOGIST & DIR. NEUROPHYSIOL. LAB, 60- Psychol. Asn; Asn. Anat. Neuro-physiology; neuropsychology; effects of central nervous system changes on behavior. Publ: Co-auth, Variations in after-discharge from the hippocampus, Proc. Soc. Exp. Biol. & Med, 93: 240-245, Effect of bilateral hippocampal stimulation on the acquisition and extinction of an instrumental response, J. Comp. & Physiol. Psychol, 12/57 & Effects of certain subcortical lesions on learning and performance in the cat, Am. Med. Asn. Arch. Neurol, 3/60. Address: 108 Dale Rd, Wethersfield, Conn. 06109.

CORRIE, DR. CHRISTOPHER CLAIR, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

CORRIE, PROF. GEORGE BRUCE, b. Crewe, Va, Feb. 26, 14; m. 41; c. 1. ECONOMICS. B.S, Wake Forest Col, 37; M.A, North Carolina, 41. Instr. ECON, Pineland Col. Girls & Edwards Mil. Inst, Salemburg, N.C, 41-42; The Citadel, 42-43; prof. & chmn. dept. bus. admin, Howard Col, 43-46; asst. prof, Alabama, 46-48; ASSOC. PROF, MARSHALL, 48- Econ. Asn; Acad. Polit. & Soc. Sci. Economic theory; public policy; economy of the Southern Appalachian bituminous coal areas. Address: Dept. of Economics, Marshall University, Huntington, W.Va. 25701.

CORRIGAN, PROF. F(RANCIS) J(OSEPH), b. St. Louis, Mo, Feb. 27, 19. FINANCE. B.S, St. Louis, 41, Ph.D.(econ), 52; M.B.A, Stanford, 43. Instr. finance, St. Louis, 49-52, asst. prof, 53-56, assoc. prof, 56-67, dir. dept. mgt, 57-67; vis. prof. BUS. ADMIN, SANTA CLARA, 67-68, PROF, 68- Lectr, Am. Inst. Banking, 49-61. Consult, City Dept. Pub. Welfare, 54-55; Freund Baking Co, 55; Chrysler Corp, 55. Finance Asn; Acad. Mgt. Financial management; management; collegiate business education. Publ: Co-auth, Financial management: policies and practices, Houghton, 63. Address: School of Business, University of Santa Clara, Santa Clara, Calif. 95053.

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CORRY, DR. J(AMES) A(LEXANDER), b. Millbank, Ont, Nov. 29, 99. POLITICAL SCIENCE. LL.B, Saskatchewan, 23, LL.D, 51; Rhodes scholar, Oxford, 24-27, B.C.L, 27; spec. fel, Columbia, 34-45, LL.M, 35; hon. LL.D, Toronto, 62, St. Andrews, 63, Western Ontario, 65, Manitoba, 67; hon. Dir. Jur. Sci, Montreal, 65; hon. D.U.C, Calgary, 67. Prof. law, Saskatchewan, 27-36; from assoc. prof. to prof. polit. sci. Queen's (Ont), 36-51, v.prin, 51-61, prin, 61-68. Mem. res. staff, Sirois Cmn, 37-39; chmn. Soc. Sci. Res. Coun. Can, 47-49; Coun. Surv. Legal Profession in Can, 49-52; bd. gov, Can. Broadcasting Corp, 49-58; chmn, Asn. Univs. & Cols, Can, 64-65; cmt. of pres. of Ont. Univs, 66-68. Royal Soc. Can; Can. Polit. Sci. Asn.(pres, 54). Administrative law; judicial control of administrative action in England; growth of government activities since confederation. Publ: Elements of democratic government; Law and Policy; The changing conditions of politics. Address: Queen's University, Kingston, Ont, Can.

CORRY, PROF. MARTHA L(UCILLE), b. Springfield, Ohio, Feb. 27, 19. GEOGRAPHY. Ph.D.(geog), Iowa, 53. Instr. soc. sci. & geog, Iowa, 49-51; asst. prof. SOC. STUDIES & GEOG, STATE UNIV. COL. ONEONTA (N.Y), 51-54, assoc. prof, 54-59, PROF, 59- Summers, Danforth res. grant, 62, Fulbright travel grant, Summer Inst. Indian Civilization, Osmania, India, 62, geog. field study, U.S.S.R, 67. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Geography of Soviet Union and Asia; economic geography. Address: Dept. of Social Science, State University of New York College at Oneonta, Oneonta, N.Y. 13820.

CORSINI, DR. RAYMOND J(OSEPH), b. Rutland, Vt, June 1, 14; m. 41; c. 1. PSYCHOLOGY. B.S, City Col. New York, 39, M.S, 41; Ph.D, Chicago, 55. Sr. psychologist, State Dept. Corrections, Calif, 47-51; supvr. psychol, State Dept. Pub. Welfare, Wis, 51-53; instr, Chicago City Jr. Col, 53-55; dir. appraisals and evals, indust. rel. center, Chicago, 55-58; ASSOC. DIR. & MGT. CONSULT, DANIEL D. HOWARD ASSOCS, 58- Lectr, State Col. Wash, 59; California, Berkeley, 64-65; Hawaii, 65-; R.I. Col, 67; private practice, 65- James McKeen Cattell award, 43. Psychol. Asn; Group. Psychother. Asn.(pres, 58-). Test construction; executive behavior and selection; group dynamics and psychotherapy psychodrama. Publ: Roleplaying in business and industry; co-auth, Adlerian family counseling, Univ. Oregon, 59; auth, Roleplaying in psychotherapy, Aldine, 65. Address: 140 Niuiki Circle, Honolulu, Hawaii 96821.

CORSO, PROF. JOHN F(IERMONTE), b. Oswego, N.Y, Dec. 1, 19; m. 43; c. 3. PSYCHOLOGY. B.Ed, State Univ. N.Y. Col. Oswego, 42; M.A, Iowa, 48, Ph.D.(psychol), 50. Asst. psychol, Iowa, 47-50; chief sound & vibration sect, Army Med. Res. Lab, Ft. Knox, Ky, 50-51; supv. physiol. & exp. psychologist, chief human factors off, Griffiss Air Force Base, 51-52; assoc. prof. PSYCHOL, Pa. State, 52-57, prof, 57-62; prof. & dir. dept, St. Louis, 62-63; PROF. & CHMN. DEPT, COL. ARTS & SCI, STATE UNIV. N.Y. COL. CORTLAND, 63- Consult, 52- U.S.A, 42-46, Capt. AAAS; Psychol. Asn; Acoustical Soc; Human Factors Soc; Psychonomic Soc; N.Y. Acad. Sci; Int. Soc. Cybernet. Med. Experimental and theoretical psychology; psychoacoustics and psychophysics; research design and administration. Publ: Co-auth, Contemporary approaches to psychology, Van Nostrand, 67; auth, The experimental psychology of sensory behavior, Holt, 67; A theoretico-historical review of the threshold concept, Psychol. Bull, 63. Address: Dept. of Psychology, College of Arts & Sciences, State University of New York College at Cortland, Cortland, N.Y. 13045.

CORSON, DR. JOHN A, Psychol. See 11th ed, Suppl. II to Phys. & Biol. Vols.

CORSON, DR. JOHN J, b. Washington, D.C, Dec. 8, 05. ECONOMICS. B.S, Virginia, 26, M.S, 29, Ph.D, 32. Ed. assoc, News Leader, Richmond, Va, 29-33; prof. econ, Richmond, 33-38; dir. bur. old-age & survivors ins, Soc. Security Bd, 38-41, bur. employ. security & U.S. Employ. Serv, 41-43; consult, soc. security, Mex. Govt, 43; deputy dir. gen, UNRRA, 44-45; exec, Wash. Post, 45-50; mem. staff, McKinsey & Co, Mgt. Consults, 51-66; CONSULT, GOVT, INDUST. & UNIVS, 66- Soc. Pub. Admin. Publ: Governance of colleges and universities; co-auth, Economic needs of older people; auth, Men near the top. Address: 4775 Old Dominion Dr, Arlington, Va. 22207.

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CORTER, DR. HAROLD M(AXWELL), b. Mill Hall, Pa, Dec. 9, 15; m. 41; c. 4. PSYCHOLOGY. B.S, Pa. State Teachers Col, Lock Haven, 36; M.Ed, Pa. State, 46, Ph.D.(psychol), 49. Clin. psychologist, Vet. Admin, 46-49; PROF. PSYCHOL. & DIR. PSYCHOL. CLIN, N.C. STATE, 49- U.S.N.R, 43-46, Lt. (jg). Cognition; cognitive training; school psychology. Publ: Factor analysis of some reasoning tests, Psychol. Monogr. Address: Dept. of Psychology, Tompkins Hall, North Carolina State University, Raleigh, N.C. 27607.

CORTES, DR. CARLOS FELIPE, b. Vina del Mar, Chile, Aug. 15, 17; U.S. citizen; m. 52. EDUCATIONAL PSYCHOLOGY. M.A, Wyoming, 52; M.A, Case Western Reserve, 61, Ph.D.(ed. psychol), 63. Guid. counsr, Vet. Admin, Wyo, 46-50; student counsr, Univ. Wyoming, 50-52; Univ. Chicago, 52-53; Western Reserve, 53-54; clin. psychologist intern, Vet. Admin, Ohio, 54-56; clin. psychologist, Cuyahoga County Juvenile Court, 56-59; sch. psychologist, Cleveland Bd. Ed, 59-63; ASST. PROF. ED. PSYCHOL, CASE WESTERN RESERVE, 63- Consult, Cleveland Bd. Ed, 65- U.S.A.A.F, 43-46, Sgt. Psychol. Asn. Developmental, clinical and school psychology. Address: 312 Overlook Park Dr, Cleveland, Ohio 44110.

CORTÉS, JUAN BUATISTA, S.J, b. Alicante, Spain, Jan. 6, 25. CLINICAL PSYCHOLOGY. M.A, Col. St.Francis, Barcelona, 51; S.T.L, Weston Col, 58; Ph.D.(clin. psychol), Harvard, 61. Asst. prof. PSYCHOL, GEORGETOWN, 62-65, ASSOC. PROF, 65- Off. Ed. study grant, 63-67. AAAS; Psychol. Asn; Acad. Relig. & Ment. Health. Personality; constitutional psychology; human motivation; crime and delinquency. Publ: Religious aspects of mental illness, J. Relig. & Health, 7/65; co-auth, Physique and self-description of temperament, J. Consult. Psychol, 10/65; auth, Yet another look at John 7: 37-38, Cath. Biblical Quart, 1/67. Address: Dept. of Psychology, Georgetown University, Washington, D.C. 20007.

CORTNER, LT. COL. ROBERT HAROLD, U.S.A.F, b. Kansas City, Mo, Sept. 27, 24; m. 49; c. 5. EDUCATIONAL PSYCHOLOGY. A.B, St. Benedict's Col, 46; Ed.M, St. Louis, 49, M.S, 54, fel, 56-58, Ph.D.(ed. psychol), 61. Dir. arts & sci, St. Louis, 48-51; U.S. AIR FORCE, 51- clin. psychologist, Air Force Hosp, Chanute Air Force Base, Ill, 51-53, ed. adv, Gunter br, Sch. Aviation Med, 53-56, tech. writer, mil. psychol, Med. Serv. Sch, 58-62, chief med. training dept, Inter Am. Acad, Albrook Air Force Base, 62-65, CHIEF PRFNL. ED, WILFORD HALL HOSP, 65- Inst, Canal Zone Col. & ext. div, Fla. State, 63-65; prof, St. Mary's (Tex) & Our Lady of the Lake Col, 66- Psychol. Asn. Clinical psychology; educational administration; hospital administration. Publ: Co-auth, Modified group therapy in training psychiatric aides, Psychiat. Quart. Suppl, 57; auth, Educational psychology applied on the job, Nursing Outlook, 1/62; co-auth, Clinical validity of the Rorschach and Szondi tests, Proc. Conf. Air Force Behav. Scientists, 1/64. Address: Wilford Hall U.S. Air Force Hospital, Lackland Air Force Base, Tex. 78236.

CORTNEY, DR. PHILIP, Econ, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

CORTY, PROF. FLOYD L(OUIS), b. Central City, Pa, Mar. 26, 16; m. 45; c. 2. AGRICULTURAL ECONOMICS. B.S, Pa. State, 40, M.S, 49; Ph.D, Cornell, 55. Instr. & admin. asst, Pa. State, 49-53; coop. agent, Southeast Milk Marketing Cmt, 55-58; asst. prof. teaching & res. land econ, LA. STATE, 58-67, PROF. LAND ECON, 67- Consult. to Secy. Gen, Ministry Agr, Morocco, 63; agr. econ. consult, U.S. Agency Int. Develop, Morocco, 65-67. U.S.A.A.F, 41-45, Res, 45-62. Agr. Econ. Asn. Land economics and marketing of agricultural products. Publ: Co-auth, Rural land tenure in the United States, 62 & Rural-urban consolidation, 64, La. State Univ. Address: Dept. of Agricultural Economics, Louisiana State University, University Station, Baton Rouge, La. 70803.

CORWIN, DR. NORMAN R(OBERT), b. Los Angeles, Calif, Nov. 13, 35; m. 58; c. 2. SOCIOLOGY, SOCIAL ETHICS. B.S, Calif. State Polytech. Col, 57; Th.M, South. Calif. Sch. Theol. Claremont, 60; Dempster fel, Boston, 61-62, Ph.D.(soc. ethics), 63. ASST. PROF. SOCIOL, LYCOMING COL, 63- Soc. Study Social Probs; Acad. Polit. & Soc. Sci. Sociology of science; sociological theory; social problems theory and application. Address: Dept. of Sociology, Lycoming College, Williamsport, Pa. 17701.

CORWIN, DR. RONALD G, b. Waterloo, Iowa, Jan. 14, 32; m. 53; c. 3. SOCIOLOGY. B.A, Iowa State Teachers Col, 54; Iowa, 56-57; M.A, Minnesota, 58, fel, 59-60, Ph.D, 60. Instr. sociol. & res. proj. dir, Minnesota, 59-60, asst. prof. ed, 60-61; asst. prof. SOCIOL, OHIO STATE, 61-67, ASSOC. PROF, 67- Res. coordinator, bur. res, U.S. Off. Ed, 66-67; summers, res. assoc. & prin. investr, Minnesota, 61, vis. lectr, Teachers Col, Columbia, 65. Consult, U.S. Off, Ed, 67- U.S.A, 54-56, Res, 56-62, Sgt. Sociol. Asn. Sociology of education and complex organization; sociology of research. Publ: A sociology of education, Appleton, 65; The professional employee, Am. J. Sociol; Educational and complex organization, In: On education, Wiley, 67. Address: Dept. of Sociology, 163 A Hagerty Hall, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

CORY, BERTHA HARPER, b. Rochester, N.Y, Dec. 17, 17; m. 41; c. 1. PSYCHOLOGY, COMPUTER SCIENCE. A.B, Rochester, 39, M.A, 41. Instr. measurement & statist, Rochester, 41-49, acting dir. bur. ed. statist, 43-49; statist. adv. psychol. res, Army Personnel Res. Off, 49-54, asst. chief statist. res. & anal. lab, 54-63, CHIEF STATIST. SYSTS. & COMPUT. BR, ARMY BEHAV. SCI. RES. LAB, 63- Instr. psychol, nursing sch, Genesee Hosp, Rochester, N.Y, 42-49. Consult, test processing, Sci. Res. Assocs, Ill, 58; data processing for res, D.C. Health & Welfare Coun, 58-60; computerized methods for Proj. Talent, Am. Inst. Res, 59-60. Panel mem, Bd. U.S. Civil Serv. Exam. Res. Psychol, 53-; mem. steering cmt. Army Group Sci. & Tech. Info, 62-63. Psychol. Asn.(ed, J. Ed. Psychol, 43-49); Asn. Comp. Mach; Psychomet. Soc. Behavioral science research; statistical methodology; computer applications. Address: Chestertown, Md. 21620.

CORY, DR. ROBERT H(ASKELL), JR, b. New York, N.Y, Oct. 1, 14; m. 43; c. 4. POLITICAL SCIENCE, SOCIOLOGY. A.B, Yale, 36; A.M, Harvard, 37, Ph.D, 51. Asst. prof. soc. sci, Ohio, 51-55; govt, Denison, 55-61; prog. assoc, Quaker UN Prog, New York, 61-66; DIR, WILLIAM PENN HOUSE, 66- Polit. Sci. Asn; Soc. Appl. Anthrop. Public opinion in institutional development; decision making in national and international affairs; cultural impact of international economic development programs. Publ: Communicating information and ideas about the United Nations to the American people; Forging a public information policy for the United Nations, Int. Orgn. Address: William Penn House, 515 E. Capitol St, Washington, D.C. 20003.

COSER, PROF. LEWIS A, b. Berlin, Germany, Nov. 27, 13; nat; m. 42; c. 2. SOCIOLOGY. Sorbonne, Paris, 34-37; univ. fel, Columbia, 50-51, Ph.D. (sociol), 54. Instr. soc. sci, Chicago, 48-50; lectr. SOCIOL, BRANDEIS, 51-53, asst. prof, 54-57, assoc. prof, 58-60, PROF, 60- Vis. assoc. prof, California, 57-58; Fulbright sr. res. scholar, Oslo, 61; fel, Center Adv. Behav. Sci, 68-69. Ed. Dissent. Sociol. Asn; Soc. Study Soc. Probs.(pres, 67-68). Sociological theory; political and industrial sociology. Publ: The functions of social conflict, Macmillan, 54, Routledge & Keegan Paul, London, 54, Spanish ed, Mex, 61, Luchterhand, German ed, 66 & Feltrinelli, Italian ed, 67; Men of ideas, 65 & Continuities in the study of social conflict, 67, Macmillan. Address: Dept. of Sociology, Brandeis University, Waltham, Mass. 02154.

COSER, DR. ROSE LAUB, b. Berlin, Germany, May 4, 16; nat; m. 42; c. 2. SOCIOLOGY. M.A, Columbia, 51, Ph.D, 57. Asst, René Spitz, New York, 47-48, 50-51; res. assoc. to Dr. David Reisman, 48-50; instr. SOCIOL, Wellesley Col, 51-57, asst. prof, 58-59; asst, DEPT. PSYCHIAT, HARVARD MED. SCH, 59-61, assoc, 64-66, RES. ASSOC, 66- ASSOC. PROF, NORTHEASTERN, 65- Nat. Inst. Ment. Health res. grant, 59-64. Assoc. sociologist, McLean Hosp, Belmont, 58-; consult, adolescent unit, Children's Hosp, Harvard Med. Sch, 64-65. Sociol. Asn; Soc. Study Social Probs. Bureaucratic organization; socialization; social structure. Publ: The family, its structure and functions, St. Martins, 64; Alienation and the social structure, In: Studies of the Hospital; Role distance, sociological ambivalence and transitional status systems, Am. J. Soc, 66. Address: Dept. of Sociology, Northeastern University, Boston, Mass. 02115.

COSGROVE, DR. DON J(AMES), b. Cincinnati, Ohio, June 8, 26; m; c. 4. INDUSTIRAL PSYCHOLOGY. B.A, Dayton, 51; fel, Detroit, 52-54, M.A, 54; Ph.D, Ohio State, 57. Asst, Ohio State, 55-56, asst. instr, 56-57; STAFF PSYCHOLOGIST, PROCTER & GAMBLE CO, 57- U.S.A, 44-46. Psychol. Asn; Psychomet. Soc. Personnel research, especially the measurement area. Publ: Diagnostic rating of teacher performance, J. Ed. Psychol. Address: 6305 Parkman Place, Cincinnati, Ohio 45213.

COSLETT, DR. STEPHEN B, b. Pittsburgh, Pa, Mar. 17, 31; m. 55; c. 2. CLINICAL PSYCHOLOGY. B.S, Pittsburgh, 53; M.A, Denver, 57, Ph.D. 60; fel, West. Psychiat. Inst. & Clin, 59-60. Asst. prof. PSYCHOL, DICKINSON COL, 60-63, ASSOC. PROF, 63-, DIR. COUNSELING, 60- Fel. clin. psychol, East. Pa. Psychiat. Inst, Phila, 66-67. U.S.A.F, 54-56, 1st Lt. AAAS; Psychol. Asn. Psychosomatic disorders among college students as well as personality dynamics of adolescents; psychoanalytically oriented psychotherapy. Publ: Semantic generalization and manifest anxiety, Am. Psychologist; Parallel observations on avoidance behavior and endocrine response under reserpine, J. Genetic Psychol; The WAIS masculinity-femininity index in a paranoid-schizophrenic population, J. Clin. Psychol, 1/65. Address: 121 Conway St, Carlisle, Pa. 17013.

COSMAN, DR. BERNARD, b. Stamford, Conn, Jan. 16, 32; m. 53; c. 4. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Alabama, 54, M.A, 58, Ph.D, 60. Mgt. intern, U.S. Dept. Navy, summer 58; asst. prof. POLIT. SCI, Alabama, 60-61; Detroit, 61-62; ALABAMA, 62-63, ASSOC. PROF, 64-, admin. secy. self-study implementation cmt, 64-66, spec. asst. to v.pres. acad. affairs, 65-67. Consult, Nat. Broadcasting Co. & Pub. Broadcast Lab, 67-68. U.S.A, 55-56, 1st Lt. Polit. Sci. Asn. Political behavior. Publ: Five states for Goldwater, Univ. Alabama, 66; co-auth, Republican party politics, Praeger, 65; auth, Presidential Republicanism in the South, 1960, J. Polit, 5/62. Address: Dept. of Political Science, Drawer I, University of Alabama, University, Ala. 35486.

COSNECK, DR. BERNARD J(OSEPH), b. St. Louis, Mo, Jan. 29, 12. SOCIOLOGY. B.S, Illinois, 30; M.A, California Western, 64; Ph.D.(sociol), Florida, 66. Psychotherapist & counsr, 30-63; asst. SOCIOL, Florida, 65-66; asst. prof, Lamar State Col, 66-67; ASSOC. PROF, VALDOSTA STATE COL, 67- Instr. & lectr. psychother, various hosps, clins, govt. agencies & insts, also regional dir, psychol. div, Ministry of Ed. & guest lectr. U.S. Opers. Mission, Ministry of Agr, Israel, 59-63; guest lectr, Hykko Univ. & Correction Bur, Ministry of Justice, Tokyo, Univ. Rangoon, Burma & Uruguay Psychoanal. Asn. U.S.C.G, 42-46. Sociol. Asn; Gerontol. Soc. Problems of the aged and the widowed. Publ: A preventive mental hygiene program for public schools, Orient/West, Tokyo, 1/63. Address: Dept. of Sociology, Valdosta State College, Box 69, Valdosta, Ga. 31601.

COSTA, DR. LOUIS D(AVID), b. New York, N.Y, Aug. 20, 32; m. 57; c. 2. PSYCHOLOGY. A.B, City Col. New York, 53; U.S. Pub. Health Serv. fel, Columbia, 56-57, M.A. & Ph.D.(psychol), 57. Trainee clin. psychol, U.S. Vet. Admin, 54-56; instr. NEUROL, ALBERT EINSTEIN COL. MED, YESHIVA, 59-65, VIS. RES. ASST. PROF, 65-; ASST. PROF, QUEENS COL.(N.Y), 61-U.S. Pub. Health Serv. fel. neurol, 57-61. Psychol. Asn. Relation of the structure and function of the nervous system to behavior, especially cognitive processes. Publ: Co-auth, Performance of patients with lateralized cerebral lesions: verbal and perceptual tests & Performance of patients with lateralized cerebral lesions: sensory and motor tests, J. Nervous & Ment. Disease. Address: Dept. of Psychology, Queens College, Flushing, N.Y. 11367.

COSTANTINO, PROF. ANTHONY, b. Dunkirk, N.Y, Sept. 6, 10; m. 48; c. 2. ECONOMICS, LAW. A.B, Cornell, 31, LL.B, 36; Stanford, 31-33; Ph.D. (econ), California, Berkeley, 55. Assoc. prof. ECON, IOWA, 56-64, PROF, 64- Macro-theory; monetary economics; economic policy; comparative economic systems. Address: Dept. of Economics, University of Iowa, Iowa City, Iowa 52240.

COSTANZO, DR. G(ESUALDO) A(NTHONY), b. Birmingham, Ala, Nov. 20, 16; m. 40; c. 1. INTERNATIONAL FINANCE. A.B, Birmingham-South. Col, 37;

du Pont fel, Virginia, 37-39, M.A, 40, Ph.D, 41; fel, Brookings Instn, 39-40. Assoc. economist, U.S. Dept. Commerce, 41-42; sr. economist, U.S. Dept. State, 46-48; asst. treas. rep, U.S. Dept. Treas, Italy, 48-50, economist, D.C, 50-51; U.S. mem, Greek Currency Bd, 51-55; dep. dir. West. Hemisphere Dept, Int. Monetary Fund, 55-61; v.pres, FIRST NAT. CITY BANK, 61-64, sr. v.pres, S.Am. group, 64-67, EXEC. V.PRES. ADMIN, OVERSEAS DIV, 67- Asst. prof, Maryland, 41-42; econ. adv, Govt. Greece, 53, Bolivia, 56, Paraguay, 57, Argentina, 58, Venezuela, 60, Brazil, 61. U.S.N, 42-46, Lt.(jg). Money and banking; international finance, especially monetary, fiscal and exchange policies appropriate for economic development in underdeveloped countries. Publ: Economic stabilization programs in Latin America. Address: First National City Bank, 399 Park Ave, New York, N.Y. 10022.

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COSTELLO, FRANK B(ARTHOLOMEW), S.J, b. Spokane, Wash, June 12, 21. POLITICAL SCIENCE. A.B, Gonzaga, 45, M.A, 46; M.A, Fordham, 49; S.T.L, Alma Col.(Calif), 53; Ph.D.(polit. sci), Georgetown, 59. Teacher, pub. sch, Wash, 46-48; instr. polit. sci, Gonzaga, 53-54; asst. prof. polit. sci, dean grad. sch. & acad. v.pres, SEATTLE, 59-66, ASSOC. PROF. POLIT. SCI, 66- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Sixteenth century Spanish political thought, especially political ideas of the Spanish Jesuits. Publ: Co-auth, Better a day; I lift my lamp. Address: Dept. of Political Science, Seattle University, Seattle, Wash. 98122.

COSTIN, PROF. FRANK, b. Louisville, Ky, Jan. 15, 14; m. 50; c. 2. PSYCHOLOGY. A.B, Louisville, 36; A.M, Chicago, 41, Ph.D, 48. Teacher, pub. sch, Ky, 36-42; asst. psychol. & ed, Chicago, 46-48; asst. prof. PSYCHOL, ILLINOIS, 48-54, assoc. prof, 55-62, PROF, 63-, clin. counsr, 48-65. Psychologist, Chicago State Hosp, 49; summers, vis. asst. prof, Oregon, 50, 54, assoc. prof, 56. Eval. consult, & co-dir, Nat. Inst. Health proj, Human Rel. Cmn, Ill, 61-64. U.S.A.A.F, 42-46, Sgt. AAAS; fel. Psychol. Asn; Psychonomic Soc. Teaching of psychology, instructional procedures, learning processes and outcomes, with emphasis on affective and other personality correlates of learning; training of college teachers; televised instruction. Publ: Dogmatism and learning: a follow-up of contradictory findings, J. Ed. Res, 65; Behavioral and attitudinal changes resulting from an intergroup youth project, J. Intergroup, Rels, 66; Dogmatism and the retention of psychological misconceptions, Ed. & Psychol. Measurement summer 68. Address: 701 W. Healey, Champaign, Ill. 61820.

COSTIS, DR. HARRY G, b. Jan. 1, 28; U.S. citizen; m. 63; c. 2. STATISTICS. Dipl, Nat. Univ. Athens, 57; M.A, Georgia, 60; Ph.D.(statist, econ), Texas, Austin, 66. Instr. STATIST, St. Mary's (Tex), 61-66; ASST. PROF, Va. Polytech, 66-67; FRESNO STATE COL, 67- Statist. Asn; Econ. Asn. Application of statistical and operations research methodology to business and economics decision making problems. Publ: Co-auth, Statistics in Greece, Am. Statistician, 10/63. Address: Dept. of Statistics, Fresno State College, Fresno, Calif. 93705.

COSTLEY, DR. DAN L, b. Oklahoma City, Okla, Dec. 16, 34; m. 57; c. 2. COMMUNICATIONS, BUSINESS ADMINISTRATION. B.A, Oklahoma, 57, M.A, 58; Ph.D.(commun), Mich. State, 64. Instr. commun, Kansas, 60-61; asst. dir. Agency Int. Develop commun. seminars, Mich. State, 61-62; asst. prof. commun, Calif. State Col, 64-65; ASSOC. PROF. ADMIN. & HEAD DEPT, WICHITA STATE, 65- Mem. staff, Mgt. Res. & Develop, Inc, 65-; faculty, Am. Inst. Banking, 65- Consult, Cessna Aircraft Co, 65-66; Hesston Mfg. Co, 65-; E.S. Edgerton Med. Res. Found, 66-; Cent. Comput, Inc, 66- U.S.A.F, 57-60, Capt. Soc. Study Commun; Speech Asn; Soc. Automation in Bus. Ed. Analysis of communication and information systems in organizations. Publ: Co-auth, Report of public attitudes toward and information about civil defense, Mich. State, 63; An annotated bibliography of research on communication in small groups, Univ. Kansas, 66; auth, Management, the computer and the information revolution, Bus. Jour, 7/66. Address: Dept. of Administration, Wichita State University, Wichita, Kans. 67208.

COSTNER, PROF. HERBERT LEE, b. Sparks, Okla, Apr. 5, 30; m. 54; c. 3. SOCIOLOGY. B.A, Oklahoma, 53; M.A, Indiana, 56, Ph.D.(sociol), 60. Asst. prof. SOCIOL, WASHINGTON (SEATTLE), 59-65, ASSOC. PROF, 65- Sociol. Asn. Publ: Co-auth, Deductions from axiomatic theory, 12/64 & auth, Criteria for measures of association, 6/65, Am. Sociol. Rev; co-auth, The multivariate analysis of dichotomized variables, Am. J. Sociol, 1/65. Address: Dept. of Sociology, University of Washington, Seattle, Wash. 98105.

COSTON, DR. HERBERT REECE, Hist, Soc. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COTE, DR. THEODORE JOHN, b. Leominster, Mass, Nov. 27, 22; m. 47; c. 4. GUIDANCE, VOCATIONAL PSYCHOLOGY. B.S.E, Mass. State Col. Fitchburg, 43, Ed.M, 48; Ph.D, Connecticut, 60. Dir. student personnel, Vinal Regional Tech. Sch, Conn, 47-51; dir. indust. ed, W.F. Kaynor Regional Tech. Sch, 53-61; ed. res. & prog. specialist, indust. ed, U.S. Off. Ed, Dept. Health, Ed. & Welfare, 61-65; asst. state dir. voc. ed, N.J. State Dept. Ed, 65-66; CHMN. DEPT. INDUST. ED, COL. ED, TEMPLE, 66- Consult, Eyelet Specialty, Inc. & Waterbury Pressed Metal Co, 53-61; U.S. Armed Forces Inst, 54- U.S.N, 42-46, 51-53, Lt. Comdr. Dir. adv. counsr. workshop, Univ. North Carolina, Chapel Hill, 67- Psychol. Asn; Personnel & Guid. Asn; Voc. Asn; Voc. Ed. Res. Asn. The inter-relationships of psychological characteristics and specialized education as determinants in career development. Publ: Manpower legislation of the sixties—a threat and a promise, George Washington, 65; Challenges to vocational education during the decade ahead, Rutgers, 66; co-auth, Functional patterns for guidance and manpower structure in office occupations, Yearbook East. Bus. Teachers Asn, 66. Address: 1652 Edison Dr, Maple Glen, Pa. 19002.

COTHRAN, PROF. TILMAN C(HRISTOPHER), b. Hope, Ark, Nov. 17, 18; m. 40; c. 2. SOCIOLOGY. B.A, Agr, Mech. & Norm. Col, Ark, 39; M.A, Indiana, 42; Gen. Ed. Bd. fel, Chicago, 45-47, Ph.D.(sociol), 49. Registr. & cashier, Agr, Mech. & Norm. Col, Ark, 39-42, chmn. soc. sci. dept, 42-47, prof. sociol. & chmn. dept, 49-59, coordinator Ford Exp. Prog. Teacher Ed, 51-59, chmn. div. soc. sci, 55-59; prof. sociol. & chmn. soc. sci. div, Dillard, 47-49; PROF. SOCIOL, CHMN. DEPT. & ED, PHYLON, ATLANTA, 59- Assoc. dir. prog, Econ. Opportunity Atlanta, Inc, 65-66; dir, Off. Econ. Opportunity Multi-Purpose Training Center, Southeast. Region, 67- Sociol. Asn; Acad. Polit. & Soc. Sci; Soc. Study Social Probs; Nat. Asn. Community Developers. Race relations; social psychology; sociological theory. Publ: Negro leadership in a crisis situation, Phylon; Negro suffrage in Arkansas, J. Negro Ed; Desegregation in the Atlanta public school system, Monogr, summer 65. Address: Dept. of Sociology, Atlanta University, 223 Chestnut St, Atlanta, Ga. 30314.

COTTER, DR. CORNELIUS P(HILIP), b. New York, N.Y, Mar. 18, 24; m. 45; c. 8. POLITICAL SCIENCE. A.B, Stanford, 49; M.P.A, Harvard, 51, Ph.D. (govt), 53; Sheldon fel, London Sch. Econ, 51-52. Instr. govt, Columbia Col, 52-53; asst. prof. POLIT. SCI, Stanford, 53-57, assoc. prof, 57-62; PROF, Wichita State, 63-67; WISCONSIN, MILWAUKEE, 67-; ASST. STAFF DIR, U.S. CMN. CIVIL RIGHTS, 60-61, 62- Citizenship Clearing House-Nat. Cmt. faculty fel, 58-59. Regional consult, U.S. Cmn. Civil Rights, 63- U.S.N, 43-46. Polit. Sci. Asn. Government and national economy; emergency powers; civil rights; parties and politics. Publ: Co-auth, Powers of the President in crises; Government and private enterprise; Politics without power, Atherton. Address: Dept. Political Science, University of Wisconsin, 616 Bolton Hall, Milwaukee, Wis. 53201.

COTTER, DR. JOHN L(AMBERT), b. Denver, Colo, Dec. 6, 11; m. 41; c. 2. ANTHROPOLOGY. A.B, Denver, 34, A.M, 35; Harrison fel, Pennsylvania, 35-37, Ph.D, 59. Field worker paleont. & archaeol, Colo. Mus. Natural Hist, 34-35; field & lab. archaeologist, Acad. Natural Sci. Phila, 36-37; state supvr, Archaeol. Surv. Ky, 37-40; jr. archaeologist, U.S. NAT. PARK SERV, 40-47, supv. archaeologist, Miss. & D.C, 47-54, Colonial Natural Hist. Park, 54-57, DIR. ARCHAEOL. RES. NORTHEAST, 57- Assoc. prof, Pennsylvania, 60- Fel. AAAS; fel. Anthrop. Asn; Soc. Archaeol; Soc. Hist. Archaeol.(first pres, 67). Early man in North America; prehistoric cultures of eastern United States; historic sites archaeology. Publ: Co-auth, Archaeology of Bynum Mounds; Archaeological discoveries at Jamestown, Virginia; Handbook and bibliography of historical archaeology. Address: U.S. National Park Service, 143 S. Third St, Philadelphia, Pa. 19106.

COTTER, DR. RICHARD V(ERN), b. Long Prairie, Minn, June 27, 30; m. 52. FINANCE, ECONOMICS. B.S, Lewis & Clark Col, 52; M.S, Oregon, 63, D.B.A, 65. ASSOC. PROF. FINANCE & CHMN. DEPT, NEVADA, 65- Finance Asn; Econ. Asn. Commercial banking; international banking and finance; corporate financial management. Publ: Capital ratios and capital adequacy, Nat. Banking Rev, 3/66; co-auth, ATGSB as used by graduate schools of business, AACSB Bull, 1/67. Address: Dept. of Finance, University of Nevada, Reno, Nev. 89507.

COTTERMAN, DR. THEODORE E(UGENE), b. Louisville, Ky, Jan. 15, 28; m. 54; c. 2. PSYCHOLOGY. A.B, Wittenberg Col, 50; M.A, Ohio State, 53, Ph.D, 56. Res. psychologist, AEROSPACE MED. DIV, WRIGHT-PATTERSON AIR FORCE BASE, 56-60, chief oper. training br, 61-64, RES. PSYCHOLOGIST, 65- U.S.A, 46, 50-52, Sgt. AAAS; Psychol. Asn. Theoretical and experimental study of learning with emphasis on human learning; development of training technology; human performance; engineering psychology; behavioral measurement. Publ: Co-auth, Discrimination reversal learning in marmosets, J. Comp. Physiol. Psychol, 49: 539-541; auth, Task classification: an approach to partially ordering information on human learning, Wright Air Develop. Center Tech. Note, 1/59 & Effects of variations in specificity of knowledge of results on the improvement of a perceptual skill, Wright Air Develop. Center Tech. Report, 8/60. Address: 255 Green Valley Dr, Enon, Ohio 45323.

COTTINGHAM, PROF. JOHN E, b. Fennimore, Wis, Aug. 5, 38; m. 60; c. 3. AGRICULTURAL ECONOMICS. B.S, Wis. State, Platteville, 61; M.S, Wisconsin, 63, Ph.D.(agr. econ), 65. Asst. AGR. ECON, Wisconsin, 61-64; asst. prof, WIS. STATE, PLATTEVILLE, 64-66, assoc. prof, 66-67, PROF, 67-, HEAD DEPT. AGR. INDUSTS, 66- Summer res. consult, Univ. Wisconsin, 68. U.S.A.R, 57-61, Sgt. Agr. Econ. Asn. Livestock, meat and agricultural marketing; food and agriculture policy. Address: Dept. of Agricultural Industries, Wisconsin State University, Platteville, Wis. 53818.

COTTLE, PROF. W(ILLIA)M C, b. Hartlot, N.Y, Aug. 12, 13; m. 38; c. 2. PSYCHOLOGY. Ed.D, Syracuse, 49. Instr. & clin. counsr, psychol. servs. center, Syracuse, 45-47; asst. prof. ed, Kansas, 47-49, assoc. prof, 49-52, prof, 52-61, counsr, guid. bur, 47-52, asst. dir, 52-61; PROF. ED. & DIR. COUNSR. ED. & COUNSELING PSYCHOL. PROG, BOSTON COL, 61-, acting dean, 66-67. Consult, 51- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Personnel & Guid. Asn.(award, 52). Counseling techniques; interest and personality measurement; identifying and counseling potential high school and college dropouts. Publ: Co-auth, Procedures and preparation for counseling; auth, School interest inventory (dropout scale), 67 & Using personality and interest inventories in the schools, 68, Houghton. Address: School of Education, 312 Campion Hall, Boston College, Chestnut Hill, Mass. 02167.

COTTON, PROF. JACK C(HILTON), Mass Commun, Speech Path, see 10th ed, Soc. & Behav. Vols, deceased 60.

COTTON, PROF. JAMES V, b. Jamestown, N.Y, Sept. 4, 30; m. 58; c. 1. GEOGRAPHY. B.S, Pa. State Teachers Col, Slippery Rock, 56; M.Ed, Pa. State, 58. ASSOC. PROF. GEOG. & CHMN. DEPT, FROSTBURG STATE COL, 58- U.S.M.C, 51-54, Sgt. Asn. Am. Geog; Nat. Coun. Geog. Ed; Am. Geog. Soc. Status of public high school geography in Maryland. Address: Dept. of Geography, Frostburg State College, Frostburg, Md. 21532.

COTTON, PROF. JOHN W(HEALDON), b. McMinnville, Ore, Oct. 8, 25; m. 47; c. 2. PSYCHOLOGY . A.B, Willamette, 47; M.A, Indiana, 50, Ph.D. (psychol), 52. Instr. psychol, Northwestern, 51-53, asst. prof, 53-59, assoc. prof, 59-60; CALIFORNIA, SANTA BARBARA, 60-63, PROF, 63-66, ED. & PSYCHOL, 66-, chmn. dept. psychol, 61-64, assoc. dean grad. div, 63-65. Fel. statist, Chicago, 57-58. U.S.N, 43-46. Psychol. Asn; Statist. Asn; Psychomet. Soc; Ed. Res. Asn. Learning; statistics; educational psychology. Publ: Running time as a function of food deprivation; Elementary statistical theory for behavior scientists, Addison-Wesley, 67; co-auth, Elementary statistics, Appleton, 2nd ed, 68. Address: 609 San Roque Rd, Santa Barbara, Calif. 93105.

COTTRELL, ALDEN T(UCKER), b. Boston, Mass, Dec. 27, 01; m. 25; c. 2. FOREST ECONOMICS. B.B.A, Boston, 24; M.F, Yale, 26. From jr. asst. forester to sr. asst. forester, State Dept. Conserv, N.J, 27-44, chief bur. pub. rels, 45-48; dir. admin. div, STATE DEPT. CONSERV. & ECON. DEVELOP, 49-56, chief bur. forestry, parks & historic sites, 53-58, state forester & chief bur. forestry, 57-64; CONSULT. FORESTER, 64- Soc. Am. Foresters. State government administration; conservation; historical research. Publ: Story of Ringwood Manor; Old barracks at Trenton; Deserted village at Allaire. Address: 5 Grandview Ave, Lawrenceville, N.J. 08648.

COTTRELL, PROF. F(REDERICK), b. Idaho Falls, Idaho, Aug. 19, 03; m. 25; c. 3. SOCIOLOGY, GOVERNMENT. A.B, Occidental Col, 25; Utah, 26; California, 28; A.M, Stanford, 29, Ph.D.(polit. sci), 30. Instr, Westminster Col. (Utah), 26-28; asst. prof. SOCIOL. & GOVT, MIAMI (OHIO), 30-37, assoc. prof, 37-46, PROF, 46-, CHMN. DEPT, 58- Franklin lectr, Wayne State, 55; Admin. Aging res. grant, 66-68. Consult, White House Conf. Aging, 61. Sociol. Asn; Polit. Sci. Asn; Soc. Study Social Probs; Gerontol. Soc. Effects of technology upon society. Publ: Railroader; Men cry peace; Energy and society. Address: 210 N. Campus, Oxford, Ohio 45056.

COTTRELL, JAMES WILLIAM, b. Louisville, Ky, June 18, 21; m; c. 4. CLINICAL & INDUSTRIAL PSYCHOLOGY. B.A, Louisville, 48, M.A, 50. Clin. psychologist, State Dept. Health, Ky, 50-51; asst. sales personnel mgr, Reynolds Metals Co, 51-60, hq. personnel mgr, 60-66; mgr. & indust. psychologist, Eng. Assocs, 66-67; INDUST. PSYCHOLOGIST, PSYCHOL. CONSULTS, 68- U.S.A.A.F, 42-47, Capt. Psychol. Asn. Personnel appraisals; executive evaluations; vocational and educational guidance; installation of personnel programs; attitude, consumer and advertising research studies; workshops and seminars in personnel and psychological techniques; programmed instruction courses and materials. Address: 8813 Watlington Rd, Richmond, Va. 23229.

COTTRELL, DR. LEONARD S(LATER), JR, b. Hampton Roads, Va, Dec. 12, 99; m. 27; c. 2. SOCIAL PSYCHOLOGY. B.S, Va. Polytech, 22; M.A, Vanderbilt, 26; Ph.D.(sociol, soc. psychol), Chicago, 33. Assoc. res. sociologist, Inst. Juvenile Res, Ill, 28-29, clin sociologist, 29-31; res. analyst, Fed. Emergency Relief Admin. & Works Prog. Admin, D.C, 35; asst. prof. sociol, Cornell, 35-38, prof, 38-48, chmn. dept. sociol. & anthrop, 39-42, dept. sociol. & anthrop. & dept. rural sociol, 45-48, dean col. arts. & sci, 48-51; soc. psychologist, Russell Sage Found, 51-67, secy, 59-67; VIS. PROF. SOC. PSYCHOL, NORTH CAROLINA, 68- Instr, Chicago, 29-35; chief sociologist & dir. surv. anal, res. br, spec. serv. div, serv. of supply, U.S. War Dept, D.C, 42-45; vis. prof, Cornell, 51-54; adj. prof, N.Y. Univ, 52-68, mem. dean's adv. coun, grad. sch. soc. work, 63-67, chmn, 64-65. Consult, Scott, Foresman & Co, 59- Mem. bd. dirs, Soc. Sci. Res. Coun, 44-52, chmn. cmt. probs. & policy, 48-51; mem. study sect, Nat. Inst. Ment. Health, 51-55, nat. adv. ment. health coun, 55-60, bd. sci. counsrs, 61-62, chmn, 64-65, cmt. juvenile delinquency, 61-63, mem. ment. health proj. grants delinquency rev. cmt, 63-64; chmn, adv. group psychol. & unconventional warfare, res. & develop. bd, U.S. Dept. Defense, 52-53; mem. sci. adv. bd, U.S. Dept, Air Force, 54-58; tech. adv. panel spec. opers, Off. Asst. Secy. Defense, Res. & Develop, 54-60; sci. adv. panel, U.S. Dept. Army, 56-58; adv. cmt. soc. sci, Nat. Sci. Found, 59-61, div. cmt. soc. sci, 61-65; sci. res. adv. bd, Nat. Asn. Retarded Children, 59-65; chmn. adv. cmt. behav. res, off. emergency planning, Nat. Acad. Sci-Nat. Res. Coun, 60-62; mem. cmt. welfare res, Community Serv, 60-67; President's Panel Ment. Retardation, 61-62; chmn, citizens adv. coun. to President's Cmt. Juvenile Delinquency & Youth Crime, 62-65, crime cmn. assistance subcmt, 66-67, mem. demonstration proj. tech. res. panel, Dept. Health, Ed. & Welfare, 62-68, chmn, 62-65; mem. cmt. on use of pub. funds promote soc. change, Nat. Asn. Soc. Workers, 65-66; bd. dirs, Center Community-Action Ed, 65-66; adv. cmt. community orgn. curriculum develop. proj, Coun. Soc. Work Ed, 65-; chmn. res. rev. cmt, Human Resources Admin, New York, 66- Fel. AAAS; fel. Sociol. Asn. (pres, 50, ed, Sociometry, 56-59); Psychol. Asn; Philos. Soc; Sociol. Res. Asn.(pres, 49). Social interaction. Publ: Co-auth, Predicting success or failure in marriage, Prentice-Hall, 39 & Identity and interpersonal competence, Univ. Chicago, 55; auth, The analysis of situational fields in social psychology, Am. Sociol. Rev, 42. Address: Dept. of Sociology, University of North Carolina, Chapel Hill, N.C, 27514.

COTTRELL, DR. NICKOLAS B(ALFE), b. New York, N.Y, Jan. 5, 37; m. 62; c. 1. PSYCHOLOGY. B.A, Swarthmore Col, 58; M.S, Washington (Seattle), 60, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, Kent State, 65-67; ASSOC. PROF, IOWA, 67- Nat. Inst. Ment. Health fel, res. center group dynamics, Michigan, 63-65; prin. investr, Nat. Sci. Found. res. grants, 65-69. AAAS; Psychol. Asn. Cognitive and social determinants of human performance. Publ: Energizing effects of cognitive dissonance upon dominant and subordinate responses, J. Personality & Soc. Psychol, 67; Performance in the presence of other human beings, Proc. 1967 Miami Univ. Symp. Social Behav, Allyn, 68. Address: Dept. of Psychology, University of Iowa, Iowa City, Iowa 52240.

COUCH, DR. ARTHUR STEPHEN, b. U.S, Nov. 28, 24. PSYCHOLOGY. B.S, Rochester, 50; fel, Harvard, 55-60, Ph.D, 60. Asst. soc. psychol, HARVARD, 52-60, ASST. PROF. PERSONALITY PSYCHOL, 60- Nat. Inst. Ment. Health spec. fel. psychoanal training & res, London, 67-70. U.S.A, 44-46. Psychol. Asn. Personality theory and assessment; interpersonal behavior; factor analysis and computer methods of research. Publ: Data-text systems, Spaulding, 67; co-auth, Yeasayers and naysayers: agreeing response set as a personality varible; auth, Psychological determinants of interpersonal behavior. Address: Dept. of Social Relations, Prince House Annex, Harvard University, Cambridge, Mass. 02138.

COUEY, DR. FRED, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

COUGHENOUR, PROF. C(HARLES) M(ILTON), b. Brooklyn, N.Y, Mar. 9, 26; m. 50; c. 2. RURAL SOCIOLOGY. A.B, Kansas, 48; A.M, Missouri, 50, Ph.D, 53. Instr. rural sociol, Missouri, 49-52, asst. prof, 53-56; assoc. rural sociologist, KENTUCKY, 56-65, PROF. RURAL SOCIOL, 65-, ACTING DEAN HOME ECON, 67-, acting dir. home econ, 65-67. Fel, Ohio State, 63-64. U.S.N.R, 44-46; U.S.A.F.R, 53-, Capt. Sociol. Asn; Rural Sociol. Soc. Social psychology and organization; rural church; diffusion of farm technology; control processes in cooperatives; decision processes in rural families; communication processes. Publ: Rate of technological diffusion among locality groups, Am. J. Soc, 1/64; Technology, diffusion and the theory of action, Indian J. Exten. Ed, 65; Reliability of adoption data in survey research, Rural Sociol, 6/65. Address: Dept. of Rural Sociology, University of Kentucky, Lexington, Ky. 40506.

COUGHLAN, JOHN APPLEBY, O.S.A, b. Silver Spring, Md, Feb. 16, 29. ECONOMICS. A.B. Villanova, 52; M.A, Catholic Univ, 58, Ph.D.(econ), 65. Teacher, high sch, D.C, 56-63, head soc. studies dept, 60-63; ASSOC. PROF. ECON. & CHMN. DEPT, VILLANOVA, 64- Lectr, Clergy Econ. Ed. Found. Regional Confs, 67. Consult, inst. contemporary econ, California, Los Angeles, 67. Acad. Polit. & Soc. Sci; Econ. Asn. Economic problems; value issues in economics; history of economic and statistical thought; approaches to economic theory and its teaching. Address: Dept. of Economics, Villanova University, Villanova, Pa. 19085.

COUGHLIN, PROF. RICHARD J(AMES), b. Buffalo, N.Y, Dec. 12, 17; m. 46; c. 2. SOCIOLOGY. B.S, N.Y. State Col, 41; M.A, Yale, 50. Soc. Sci. Res. Coun. fel, 51-52, Ph.D.(sociol), 53; Fulbright grant, Thailand, 51-52. V.consul, U.S. Dept. State, Indochina, 46-48, head Indochina desk, div. res. on Far East, 48-49; asst. instr. Southeast Asia Studies. Yale, 52-53, instr. sociol, 53-55, asst. prof, 55-60; assoc. prof, York (Ont), 60-63, PROF. SOCIOL. & ANTHROP, VIRGINIA, 63-, CHMN. DEPT. 67-, acting chmn, 65-66. Sr. rep, Asia Found, Hong Kong, 57-59; chmn, behav. sci. panel, NATO Postdoctoral fels. sci, Nat. Acad. Sci, 67. Sociol. Asn; Asn. Asian Studies; Soc. Study Social Probs; Soc. Appl. Anthrop; Pop. Asn. Minorities: sociology of human fertility; urbanization in Asia; deviant behavior: studies of Southeast Asia and East Asia; sociology of religion. Publ: Double identity; co-auth, Southeast Asian birth customs: three studies in human reproduction, Taplinger, 65 & Fertility and birth control among low income Chinese families in Hong Kong, Marriage & Family Living, 5/63. Address: Dept. of Sociology & Anthropology, University of Virginia, Charlottesville, Va. 22903.

COULES, DR. JOHN, b. Boston, Mass, July 28, 23; m. 48; c. 3. PSYCHOLOGY. Ph.D.(psychol), Boston, 53. Res. assoc. phys. res. lab, Boston, 51-53; instr. psychol, New Hampshire, 53-55, asst. prof, 55-56; asst. prof. & res. assoc, Tufts, 56-58; res. psychologist, Electronic Systs. Div, U.S. Air Force, 58-66; sr. prfnl. staff mem, systs. eng. sect, Arthur D. Little, Inc, 66-68; SR. RES. SCIENTIST, AM. INSTS. RES, 68- Lectr, Metropolitan Col, Boston, 62- U.S.A.A.F, 43-46. Psychol. Asn. Visual perception: human engineering; human performance under stress: man-machine system design. Publ: The role of communication in the reduction of interpersonal hostility; Human performance and basal skin conductance in the vigilance-type task with and without knowledge of results. Address: American Institutes for Research, 4 De Angelo Dr, Bedford, Mass. 01730.

COULOUMBIS, DR. THEODORE ALEXANDER, b. Athens, Greece, June 25, 35; U.S. citizen. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Connecticut, 56, M.A, 58; Georgetown, 56-57; Ph.D.(int. rels), American Univ, 64. Opers. res. analyst, res. & develop, U.S. Dept. Navy, 60-65; ASST. PROF. INT. RELS, AMERICAN UNIV, 65- Lectr, bus. coun. internat. understanding, American Univ, 65-66; Defense Intel. Agency, 67. U.S.A, 58-60, Res, 60-65, Capt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Int. Law. Greece, foreign policy formulation; foreign relations; national-foreign politics interaction. Publ: Greek political reaction to American & NATO influences, Yale, 66. Address: Dept. of International Relations, American University, Washington, D.C. 20016.

COULSON, DR. JOHN E, b. Atlanta, Ga, Mar. 11, 29; m. 56. EXPERIMENTAL PSYCHOLOGY. B.S, Arizona, 50, B.A, 52; M.A, Columbia, 53, Ph.D.(psychol), 56. Physicist, Mare Island Naval Shipyard, Calif, 50-51; asst. psychol, Columbia, 54-55; soc. scientist, syst. develop. div, Rand Corp, 55-57; training specialist, SYST. DEVELOP. CORP, 57-59, sr. human factors scientist, res. directorate, 59-65. SR. RES. LEADER, ED. & TRAINING STAFF, RES. & TECH. DIV, 65- U.S.A.R, 50-62. Psychol. Asn; Coun. Measurement in Ed; Ed. Res. Asn. Research on and applications of programmed instruction, automation and data processing capabilities to educational systems; experimental research of visual perception. Publ: Ed, Programmed learning and computer based instruction; auth, Automation, electronic computers, and education, Phi Delta Kappan, 66; Effects of three variables in a teaching Machine, J. Ed. Psychol. Address: Systems Development Corp, 2500 Colorado Ave, Santa Monica, Calif. 90406.

COULSON, DR. MICHAEL R(OBERT) C(UMMINS), b. Gloucester, U.K, Nov. 29, 35; m. 63; c. 2. GEOGRAPHY. B.A, Durham, 59; Community Studies Inc. fel, Kansas, 61-63, M.A, 63, Ph.D.(geog), 66. ASST. PROF. GEOG, CALGARY, 63- Nat. Adv. Coun. Geog. Res. grant, 65- Asn. Am. Geog; Can. Asn. Geog; Regional Sci. Asn; Am. Geog. Soc; Can. Asn. Univ. Teachers; Can. Inst. Surv; Brit. Cartog. Soc. Urban geography; cartography; analysis of population age structures; federal and provincial electoral boundaries. Publ: Co-auth, Class intervals for statistical maps, Int. Yearbook Cartog; auth, The distribution of population age structures in Kansas City, Ann. Asn. Am. Geog, 3/68. Address: Dept. of Geography, University of Calgary, Calgary, Alta, Can.

COULSON, DR. WILLIAM R(ODNEY), b. Compton, Calif, Nov. 3, 33; m. 55; c. 7. PSYCHOLOGY, PHILOSOPHY. B.A, Arizona State, 55; M.A, Notre

Dame, 60, Ph.D.(philos), 63; Ed.D.(counseling psychol), California, Berkeley, 64. Asst. dean students, Arizona State, 56-58; instr. Great Books, St. Mary's Col.(Calif), 60-61; res. fel, psychiat. inst, Wisconsin, 63-64; fel, West. Behav. Sci. Inst, 64-65; trainee clin. psychol, Vet. Admin. Hosp, Phoenix, Ariz, 65-66; RES. PSYCHOLOGIST, WEST. BEHAV. SCI. INST, 66- Psychol. Asn. Educational innovation studies; philosophy of science; group problem solving; group psychotherapy. Publ: Co-auth, Man and the science of man: issues in the philosophy of the human sciences, C.E. Merrill, 68. Address: Western Behavioral Science Institute, 1150 Silverado St, La Jolla, Calif. 92037.

COULTER, DR. EDWIN M(ARTIN), b. Waynesboro, Va, July 18, 37; m. 63; c. 2. POLITICAL SCIENCE. B.A, Furman, 62; Ph.D.(for. affairs), Virginia, 65. ASSOC. PROF. POLIT. SCI. & CHMN. DIV. POLIT. SCI, SOCIOL. & GEOG, ARK. STATE, 65- U.S.N, 55-58. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. International politics and diplomacy; South Asian politics. Address: Dept. of Political Science, Arkansas State University, Drawer 850, State College, Ark. 72467.

COULTER, DR. ELIZABETH JACKSON, b. Baltimore, Md, Nov. 2, 19; m. 51; c. 1. DEMOGRAPHY, PUBLIC HEALTH STATISTICS. A.B, Swarthmore Col, 41; A.M, Radcliffe Col, 46, Ph.D.(econ), 48. Res. asst, Milbank Mem. Fund, N.Y, 48-51; economist, Defense Prod. Admin, 51; res. analyst, Children's Bur, D.C, 52-53; statistician, State Dept. Health, Ohio, 54-55, chief statistician, 55-65; ASSOC. PROF. BIOSTATIST. & ECON, NORTH CAROLINA, 65- Lectr, Ohio State, 54-55; adj. asst. clin. prof, grad. sch. pub. health, Pittsburgh, 58-60; clin. asst. prof, Ohio State, 63-65. AAAS; Econ. Asn; Statist. Asn; Sociol. Asn; Biomet. Soc; Pub. Health Asn; Acad. Polit. & Soc. Sci. Health and medical economics; international health; socio-economic and environmental factors and health; follow-up studies on newly married couples; economics of health care; health planning; cancer mortality in various population groups. Publ: Co-auth, Cancer mortality among native white, foreign born white and non-white male residents of Ohio, J. Nat. Cancer Inst, Analysis of vital statistics by census tract, J. Am. Statist. Asn. & Methods of studying the relation of employment and long-term illness, Am. J. Pub. Health. Address: 1825 N. Lake Shore Dr, Chapel Hill, N.C. 27514.

COULTER, PROF. JOHN WESLEY, Geog, see 10th ed, Soc. & Behav. Vols, deceased 67.

COULTER. DR. PHILIP BROOKS, b. Elizabethtown, Ky, Feb. 27, 39; m. 62. POLITICAL SCIENCE & SOCIOLOGY. A.B, Centre Col, 61; Kentucky, 61-62; Ph.D.(polit. sci), State Univ. N.Y. Albany, 66. Instr. POLIT. SCI, MASSACHUSETTS. AMHERST, 64-66, ASST. PROF, 66- Faculty res. grant, Massachusetts, 66-67, res. comput. center grant, 66-68. Consult, Redevelop. Authority, Springfield, Mass, 67-68. Polit. Sci. Asn. Urban and metropolitan political systems; political theory and methodology. Publ: Co-auth, Voting patterns in Massachusetts, Univ. Massachusetts, 67; Theory of ecology and party competition, West. Polit. Quart, 68 & Sociological bases of competition between parties, Sociol. Quart, summer 68. Address: 137 Columbia Dr, Amherst, Mass. 01002.

COULTER, DR. WALTER McLEAN, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

COUNT. PROF. EARL W(ENDEL), b. Irvington-on-Hudson, N.Y, Oct. 22, 99; m. 28. ANTHROPOLOGY. A.B, Williams Col, 22; Northwestern, 24-26, 27-28; B.D, Garrett Theol. Sem, 26; Rockefeller fel, California, 34, Ph.D.(anthrop), 35. Instr, zool, San Jose State Col, 28-35, asst. prof, 35-37; anat, N.Y. Med. Col, 37-41, assoc. prof, 41-45, Viking Fund fel, 45-46; PROF. ANTHROP, HAMILTON COL, 46- Res. grant, Nat. Inst. Ment. Health, Nat. Insts. Health, 61-62. Vis. prof, Brandeis, summer, 58; Syracuse, summer, 59; Tulane, 66; Northwestern, 68. U.S.A, 18. Fel. AAAS; fel. Anthrop. Asn; Ling. Soc; Asn. Phys. Anthrop. Physical and cultural anthropology. Publ: This is race; 4,000 years of Christmas; co-auth, Fact and theory in social science, Syracuse Univ, 64. Address: Dept. of Anthropology, Hamilton College, Clinton, N.Y. 13323.

COUPE. PROF. JOHN DONALD, b. Holyoke, Mass, Aug. 29, 31; m. 58; c. 2. ECONOMICS. B.S, Worcester Polytech, 53; M.A, Clark, 57, fel, 56-58, Ph.D.(econ), 60. Asst. prof. ECON, Maine, 58-61; Kent State, 61-62; PROF, MAINE, 62- Ord.C, 53-55, Res, 55-61. Econ. Asn; Economet. Soc. Economic theory; mathematical economics; econometrics. Publ: Co-auth, Study of the vacation industry in Maine; The Bangor area economy, 67. Address: Dept. of Economics, University of Maine, Orono, Maine 04473.

COUPER, DR. WALTER J(AMES), Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

COUR. RAYMOND F(RANCIS), C.S.C, b. Springfield, Ill, Feb. 22, 15. POLITICAL SCIENCE. A.B, Notre Dame, 37, A.M, 43, Ph.D.(polit. sci), 52. Instr. POLIT. SCI, NOTRE DAME, 45-50, asst. prof, 50-62, assoc. prof, 62-66, PROF, 66-, chmn. dept, 49-53. Polit. Sci. Asn; Am. Studies Asn. American political theory; church and state; civil liberties. Publ: Catholic action and politics in the writings of Pius XI; Democratic features of religious institutes. Address: Dept. of Government, University of Notre Dame, Box 175, Notre Dame, Ind. 46556.

COURTLESS, DR. THOMAS F(RANCIS), b. Downingtown, Pa, Sept. 5, 31; m. 56; c. 2. SOCIOLOGY. B.A, Pa. State, 55; M.A, Maryland, 60, Ph.D. (sociol), 66. Caseworker, Patuxent Inst. Defectives, 57-62; instr. sociol, Maryland, 61-65; asst. prof. SOCIOL. & LAW, GEORGE WASHINGTON, 65-66. ASSOC. PROF, 66- Sociologist, Ment. Retardation Res. Pub. Health Serv, 62-65; consult, President's Cmn. Law Enforcement, 66; consult. corrections, Sterling Inst. Wash, 67- U.S.A, 53-54. Sociol. Asn; Correctional Asn; Law & Society Asn. Criminological research, especially evaluation of correctional systems and goodness of fit of criminological theory and correctional practice. Publ: Co-auth, Mentally retarded offenders, President's Cmn. Law Enforcement, 67. Address: 17 Midhurst Rd, Silver Spring, Md. 20910.

COURTNEY, PROF. DALE E(LLIOTT), b. Ashton, Idaho, Mar. 3, 18; m. 42. GEOGRAPHY. B.A, West. Wash. Col. Ed, 40; M.A, Washington (Seattle), 50, Ph.D.(geog), 59. Instr.GEOG, Bowling Green State, 52-56; from instr. to assoc. prof, PORTLAND STATE COL, 56-67, PROF, 67- U.S.A.F, 42-46, Res, 46-, Maj. Asn. Am. Geog; Nat. Coun. Geog. Ed; Asn. Pac. Coast Geog. (pres, 67). Geography of Latin America; low latitude agriculture and land use; cartography; historical geography. Address: 3105 S.W. Sherwood Place, Portland, Ore. 97201.

COURTNEY, DR. DOUGLAS, b. Boston, Mass, Mar. 12, 16; m. 41; c. 3. PSYCHOLOGY. B.S, Boston, 37, Ed.M, 41; Bigelow & Milton fels, Harvard, 46-48; Ed.D.(psychol), 49. Sch. psychologist, The Cambridge Sch, 40-42; assoc. prof. psychol, Ohio State, 48-50; prog. dir, Inst. Res. Human Rel, 51-54; dir, Courtney & Co, 54-62; sr. v.pres, Matrix Corp, 62-65; V.PRES, HEDBERG & GORDON, 65- Asst. to dir, psycho-ed. clin, Harvard, 46-48; mem. div. personnel, U.S. Pub. Health Serv, 47-; Vet. Admin, 54- U.S.N, 43-46. Psychol. Asn; Mkt. Asn. Human engineering; personnel and operations research. Publ: Co-auth, Operation tulip, a study of the military contribution to the Netherlands food disaster & The naval aviator and reserve participation; auth, Functional research on aircraft carrier. Address: Hedberg & Gordon, 1 Station Square, Paoli, Pa. 19301.

COURTNEY, DR. JOHN CHILDS, b. Regina, Sask, Oct. 4, 36; m. 59; c. 2. POLITICAL SCIENCE. B.A, Manitoba, 58; M.B.A, Western Ontario, 60; M.A, Duke, 62, Ph.D.(polit. sci), 64. ASST. PROF. POLIT. SCI, Brandon Col, 63-65; SASKATCHEWAN, 65- Can. Polit. Sci. Asn. Canadian royal commissions; Canadian political parties and voting behavior. Publ: Ed, Voting in Canada, Prentice-Hall, 67; auth, Saskatchewan election: 1964, Can. Forum, 64; co-auth, Voting in Saskatoon City, Can. J. Econ. & Polit. Sci, 66. Address: Dept. of Economics & Political Science, University of Saskatchewan, Saskatoon, Sask, Can.

COURTNEY, JOSEPH F(RANCIS), b. Lancashire, Eng, Mar. 12, 26; U.S. citizen; m. 53. PUBLIC ADMINISTRATION, POLITICAL SCIENCE. A.B, Northeastern, 48; M.A, Boston, 50; LL.B, Suffolk, 63. Instr. polit. sci, Northeastern, 49-51; asst. city mgr, Medford, Mass, 51-54; town mgr, Wilmington, 54-58; assoc. dir, spec. cmn. audit state needs, 58-59; dir. prog. planning, State Cmn. Admin. & Finance, 59-60, mgt. improv, 60-63; bur. prog. planning & res, Commonwealth Mass, 63-64; RES. ASSOC. PROF. GOVT, GRAD. SCH, BOSTON, 64-, DIR. AREA DEVELOP. CENTER, 65- Lectr, grad. sch, Northeastern, 62- Consult, mgt, planning & develop, 64- U.S.N, 44-45. Soc. Pub. Admin; Int. City Mgr. Asn; Acad. Polit. & Soc. Sci; Regional Sci. Asn. Public administration; municipal management; economic development; regional and state planning; intergovernmental relations. Publ: Massachusetts needs in urban and industrial renewal; Planning development and renewal, In: State Government and public responsibility; co-auth, State agencies and regional development, Mass. Dept. Commerce & Develop, 67. Address: 398 Andover St, Wilmington, Mass. 01887.

COURTNEY, PROF. ROBERT J(AMES), b. Ardmore, Pa, Dec. 23, 19; m. 45; c. 4. POLITICAL SCIENCE. A.B, La Salle Col, 41; A.M, Niagara, 46; Ph.D, Pennsylvania, 57. Instr. POLIT. SCI, La SALLE COL, 46-48, asst. prof, 48-58, assoc. prof, 58-64, PROF, 64- Mem. For. Policy Asn-World Affairs Coun. U.S.N.R, 42-46, Lt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. State and local government. Address: Dept. of Political Science, La Salle College, Philadelphia, Pa. 19141.

COURTS, PROF. FREDERICK A(DELBERT), b. Ft. Smith, Ark, June 26, 08; m. 36; c. 4. PSYCHOLOGY. A.B, Reed Col, 33; A.M, Oregon, 35; Ph.D. (psychol), Stanford, 38. Asst. psychol, Oregon, 34-35; Reed Col, 35-36; asst. instr, Stanford, 36-38, instr, Missouri, 38-40, asst. prof, 40-45, chmn. dept, 41-45; asst. prof. psychol. & ed, REED COL, 45-48, assoc. prof. PSYCHOL, 48-55, PROF, 55-, dir. Vet. Guid. Center, 45-49. Vis. prof, Stanford, 49-50; res. statistician, Am. Cancer Soc, 58-59. Consult, Palo Alto Vet. Admin. Hosp, 49-50. Psychonomic Soc; fel. Psychol. Asn. Human learning; relations of performance to muscular tension; statistics; psychology in the high school curriculum. Publ: Psychological statistics· an introduction, Dorsey, 66. Address: Dept. of Psychology, Reed College, Portland, Ore. 97202.

COUSINS, PROF. ALBERT N(EWTON), b. Cleveland, Ohio, May 7, 19; m. 44; c. 2. SOCIOLOGY. A.B, Ohio State, 42; fel, Harvard, 47-49, M.A, 49, Ph.D. (sociol), 51. Asst. prof. sociol. Fla. State, 49-51; lectr, Western Reserve, 52; assoc. prof. AM. STUDIES, CLEVELAND STATE, 52-64, PROF, 64- Lectr, Ohio State, 65-68; Nat. Sci. Found. fel, 66. Dir. anti-poverty inst, Cleveland State, 67; co-dir, Nat. Defense Ed. Act Inst, Ursuline Col, 67-68. Ord. Dept, U.S.A, 42-46, M/Sgt. Sociol. Asn; Am. Studies Asn. Social structure; sociology of literature; domestic institutions. Publ: Contrib, A modern introduction to the family, Macmillan, 60. Address: Dept. of Sociology, Cleveland State University, Cleveland, Ohio 44115.

COUSINS, DR. WILLIAM J(AMES), b. Derby, Conn, Jan. 25, 24; m. 54. SOCIOLOGY. Brooker scholar, Yale, 41-44, B.A, 44, Cuyler-Foote-Hurt fel, 46-47, Larned fel, 47-48, Sterling fel, 48, Rosenwald fel, 48-49, Ph.D. (sociol), 53; scholar, Fisk, 44-45. Instr. soc. sci, Knoxville Col, 45-46; sociol, Wellesley Col, 49-52; dir. int. student seminars, Am. Friends Serv. Cmt, India & Pakistan, 53-55; community develop. proj. adv, W.Bengal Govt, Int. Coop. Admin, 55-58, Meshed, Iran, 59-60, chief training & resources br, community develop. div, 60-62; Peace Corp. rep, Iran, 62-64; dir. community work, Baroda community develop. serv, India, Am. Friends Serv. Cmt, 64-66; ASSOC. PROF. SOCIOL, EARLHAM COL, 66- AAAS; Sociol. Asn; Acad. Polit. & Soc. Sci. Intergroup relations; social psychology; social change. Address: Dept. of Sociology, Earlham College, Richmond, Ind. 47374.

COUTINHO, PROF. JOAQUIM DE SIQUEIRA, b. Portugal, Aug. 4, 85; nat; wid; c. 2. GEOGRAPHY. C.E, Technic Univ. of Lisbon, Portugal, 06, Sc.D, 07. Prof. GEOG, SCH. FOR. SERV, GEORGETOWN, 20-54, EMER. PROF, 54- Portuguese Govt. traveling fel, London & Oxford, 07-09; lectr, Harvard; Columbia; N.Y. Univ; Fordham; Pennsylvania; Hopkins; vis. prof, Univ. Berlin, 25-38; dir. jr. year prog, Univ. Madrid, 54-62; summer adv, Univ.

Coimbra, 25 & 36. Knight of Santiago, Portugal, 10, Knight Officer, 20; Int. Found, Eloy Alfaro medal, Ecuador, 49; Vicennallium medal, Georgetown, 50; Benemerenti medal.Holy See, 50; Axacan award, 60; Knight Commander of Prince Henry, 62. Geography, geopolitics and Portuguese philology; Portuguese grammar; survey of Portuguese culture. Address: 1890 Ontario Place N.W, Washington, D.C. 20009.

COUTU, PROF. A(RTHUR) J(AMES), b. Hartford, Conn, Sept. 14, 24; m. 47; c. 2. AGRICULTURAL ECONOMICS. B.S, Connecticut, 49, M.S, 50; Ph.D. (agr. econ), N.C. State Col, 55. Asst. mkt. res, Connecticut, 50-51; instr. PROD. ECON. RES, N.C. STATE, 52-53, asst. prof, 54-57, assoc. prof, 58-61, PROF, 62- Econ. adv, Agrarian Univ, Peru, 63, hon. prof. fac. sci, 65-; chief of party, North Carolina State Univ. agr. mission to Peru, Lima, 64-65, dir, Raleigh, N.C, 66- Participant, World Food Study, President's Sci. Adv. Cmt, 66-67. U.S.M.C, 43-46. Production and marketing; soil and water conservation; economic development, particularly in Peru. Publ: Methods for an economic evaluation of soil conservation practices. Address: Dept. of Economics, North Carolina State University, Raleigh, N.C. 27607.

COUTU, PROF. WALTER, b. Brainerd, Minn, Aug. 10, 96; m. 31. SOCIOLOGY. A.B, Wisconsin, 24, Ph.D, 35. Admin. officer, labor inventory sect, div. soc. res, Works Progress Admin, Wash, D.C, 35-36; assoc. prof. sociol, Georgia, 36-41; Texas, 41-43; chief res. sect, soc. protection div, Fed. Security Agency, Wash, D.C, 43-44; prof. SOCIOL, PA. STATE, 44-62, EMER. PROF, 62- U.S.A, 17-19, Sgt. Sociol. Asn. Social psychology. Publ: Role-taking versus roleplaying; Emergent human nature; An operational definition of meaning. Address: P.O. Box 205, Greenvalley, Ariz. 85614.

COVAULT, DR. RICHARD EARL, b. Ft. Wayne, Ind, May 5, 27; m. 54; c. 3. CLINICAL PSYCHOLOGY. A.B, Indiana, 50; Ph.D, Nebraska, 55. Clin. psychologist, Vet. Admin, 51-58; Ventura County Ment. Health Serv, 58-62; private practice, 62- Consult, State Dept. Ed, Calif, 58-62. Dipl, Am. Bd. Exam. Prfnl. Psychol, 62. U.S.N, 45-46. Psychol. Asn. Community mental health outpatient treatment; mental health education and consultation. Publ: Influence of test anxiety and task complexity on the learning of mazes. Address: 118 Via Baja, Ventura, Calif. 93003.

COVER, DR. JOHN H(IGSON), b. Johnstown, Pa, Oct. 29, 91. ECONOMICS. B.S, Columbia, 15, A.M, 19, Ph.D, 27. Attache, Am. Embassy, Vienna, 15-16; ed. staff, Iron Age, & spec. writer, New York Evening Post, 16; with dept. surv. & exhibs, U.S. Food Admin, 17; dir. welfare pubs, Metropolitan Life Ins. Co, 20; Near East Relief, 18-21; instr. econ. & bus, Columbia, 21-23; prof. econ, Colo. Col, 23-24; prof. statist. & mkt. & dir. bur. bus. & soc. res, Denver, 24-27; prof. statist. & dir. bur. bus. res, Pittsburgh, 27-30; prof. statist, Chicago, 28-40; consult. economist, 40-42; mem. staff, lend-lease, U.S. Dept. State, UNRRA, U.S. Army & U.S. Dept. Commerce, 42-46; dir. bur. bus. & econ. res, Univ. Maryland, 46-61; CONSULT. ECON, GOVTS, BUS. & ACAD. INSTS, 61- Economist, Fed. Home Loan Bank, Chicago, 37; lectr, Univ. Rotterdam, 45-46; European Inst. Grad. Bus. Admin, France, Univ. Palerno & Univ. Athens, 63. Consult, Fed. Emergency Relief Admin, U.S. Dept. Commerce & Bur. Labor Statist, 34-40; consult, mem. bd. trustees & secy, Nat. Parks Asn, 60-; UN econ. planning consult & ad interim country rep, Syria, 62-63; UN econ. planning consult, Barbados, 64-65; consult, Agency Int. Develop. Pop. Ref. Bur, 66. Mem, Cmt. Govt. Statist. & Info. Servs, 33; chmn, S. Asia res. proj, California, 55-56. Fulbright award, India, 52-53. Fel. AAAS; Econ. Asn; Statist. Asn.(v.pres, 37). International economic analysis; research methodology; regional analysis. Publ: Retail price behavior; Regulation of economic activities in foreign countries; co-auth, Economy of India. Address: 211 Fairfield Pike, Yellow Springs, Ohio 45387.

COVER, PROF. VIRGIL DALE, b. Ely, Iowa, Apr, 18, 09; m. 35; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.S.C, Iowa, 30; M.B.A, Northwestern, 31; Ph.D, Illinois, 35. Asst. econ, Illinois, 31-35; from instr. to asst. prof, Arkansas, 35-41; from economist to sr. economist transport econ, U.S. Dept. Commerce, 41-42; sr. economist statist, U.S. Bur. Budget, 42-43; from assoc. prof. to prof. TRANSPORTATION, SYRACUSE, 46-51, FRANKLIN PROF, 51- Res. assoc, Pittsburgh, 49-50; Ford Found. vis. prof, Rangoon, Burma, 55-56; chief of party, Sch. Admin. & Finance, Syracuse Univ. in Colombia, 62-65. Summer, economist, Tenn. Valley Authority, 40. Consult, U.S. Dept. Commerce, 51-59; Cmn. Reorgn. Exec. Br. Govt, 54; Temp. State Cmn. Econ. Expansion, N.Y, 60. Mem. transportation adv. coun, U.S. Dept. Commerce, 56-61. U.S.N.R, 43-46, Lt. Comdr. Econ. Asn; Soc. Traffic & Transportation; Transportation Res. Forum. Transportation organization and regulation; underdeveloped countries. Publ: Co-auth, Rate of return, Class I line haul railways; auth, Policy for highway transport in Burma, J. Burma Res. Soc; Government procurement of and provision of transport services, U.S. Dept. Commerce Monogr. Address: Syracuse University College of Business Administration, Syracuse, N.Y. 13210.

COVILLE, DR. WALTER J(OSEPH), b. Grand Rapids, Mich, June 16, 14; m. 40; c. 3. PSYCHOLOGY. M.A, Fordham, 40, Ph.D.(psychol), 42. Technician supvr, Citizenship Ed. Prog, Works Proj. Admin, New York, 42; clin. psychologist, psychopath. clin, Recorder's Court, Detroit, Mich, 42-44; safety engr, Timken Detroit Axle Co, 43; aviation psychologist, U.S. Bur. Med. & Surg, Wash, D.C, 44; clin. psychologist, U.S. Pub. Health, 44-46; adult guid clin, Cath. Charities, Brooklyn, 47-51; dir. dept. psychol, ST. VINCENT'S HOSP. & MED. CENTER, 47-65, CONSULT. CLIN. PSYCHOL, 65- Adj. assoc. prof, Fordham, 54-65; private practice. Consult, St. Clare's Hosp, New York; Archdiocese of N.Y; Diocese of Rockville Centre, N.Y, 66- Mem, WHO. Fel. Psychol. Asn; Asn. Adv. Psychother; Acad. Psychother; Acad. Relig. & Ment. Health. Diagnostic psychological evaluation; psychotherapy; marriage counseling; human relations training; personality assessment of candidates for the priesthood and the religious life. Publ: Co-auth, Abnormal psychology. Address: 229 Willetts Lane, West Islip, N.Y. 11795.

COVINGTON, PROF. EVABELLE SIMMONS, Econ, see 10th ed, Soc. & Behav. Vols.

COVINGTON, PROF. JAMES WARREN, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COVINGTON, DR. MARTIN V, b. San Bernardino, Calif, Feb. 14, 36; m. 62; c. 2. PSYCHOLOGY, EDUCATION. B.A, Redlands, 57; Ph.D.(psychol), California, Berkeley, 62. Asst. prof. PSYCHOL, CALIFORNIA, BERKELEY, 64-67, ASSOC. PROF, 67- Assoc. res. psychologist, Inst. personality assessment & res, California, Berkeley, 61-, co-dir, Carnegie Creative Thinking Proj, 64- Co-recipient, Carnegie Corp. grant, 61- Consult, joint cmt. prog. instr. & teaching mach, Am. Ed. Res. Asn-Am. Psychol. Asn; 61-; mem. psychol. adv. panel, Calif. Statewide Soc. Sci. Study Cmn, 66- Psychol. Asn. Study of teaching-learning relationship and factors which facilitate acquisition of high-level concepts; fostering of creative thinking and problem solving efficiency. Publ: Productive thinking program. I. General problem solving, Brazelton, 66; Promoting creative thinking in the classroom, In: Research of significance to education, Univ. Wisconsin, 67. Address: Dept. of Psychology, University of California, Berkeley, Calif. 94720.

COVNER, DR. BERNARD J(EROME), b. New York, N.Y, Sept. 26, 17; m. 43; c. 2. PSYCHOLOGY. A.B, Colgate, 38; M.A, Pennsylvania, 39; Ph.D.(psychol), Ohio State 42. From jr. analyst to sr. analyst, Nat. Defense Res. Cmt. Proj, Pennsylvania, 42-45; counsr. & indust. consult, Voc. Counseling Serv, 45-46; supvr. training, Berger Bros. Co, 46-49; asst. prof. psychol. & indust. admin, Yale, 49-50; psychol, City Col. New York, 50-51; from res. dir. to asst. v.pres, Dunlap & Assocs, Inc, 51-57; DIR, MAN-MANAGEMENT CENTER, 57- Lectr, Wesleyan, 45-50; Yale, 62. Personnel consult. Dipl, Am. Bd. Exam. Prfnl. Psychol. Civilian with Off. Sci. Res. & Develop. Fel. Psychol. Asn. Manager and employee development; key personnel appraisal: vocational and educational counseling. Publ: Communication of merit ratings; Management factors affecting absenteeism: Measuring the engineer. Address: 75 Barrett Ave, Stamford, Conn. 06902.

COWAN, PROF. DONALD R(OSS) G(RANT), b. Stroud, Ont, May 5, 97: nat: m. 23; c. 4. ECONOMICS. B.A, Queen's (Can), 17; M.A, Toronto, 18, MacKenzie fel, 19; Ph.D.(econ), Minnesota, 34. Jr. exec. Goodyear Tire & Rubber Co. of Can, 20-22; instr, Minnesota, 22-23; asst. prof. Missouri. 23-25; chief statistician in charge mkt. res, Swift & Co, 25-40; mgr. commercial res. dept, Repub. Steel Corp, 40-44; owner, Donald R.G. Cowan & Assocs, 44-50; prof. MKT, MICHIGAN, 50-67, EMER. PROF, 67- Lectr. Chicago, 29-35; Northwestern, 30-40; Western Reserve, 44-49; dir. steel indust. study, Brookings Inst, 56-; economist, U.S. Agency Int. Develop. Taiwan, 65; energy & elec. study team, U.S. Agency Int. Develop, Thailand, 66. Consult, Nat. Coal Asn; Standard Oil & Gas Co. & Continental Oil Corp. 56. Mem. adv. cmt, U.S. Bur. Census, 45-55. Can. Army, 16, Lt. Econ. Asn; Statist. Asn; Mkt. Asn.(v.pres, 39, pres, 40; award, 60). Marketing and statistics; industry economics; management; growth aspects of the steel industry in the United States. Publ: Sales analysis from the management standpoint, Univ. Chicago, 38; More capital equipment, coal's foremost economic need; auth, Marketing channels, In: The marketing of meat and related products, Irwin. Address: Graduate School of Business Administration, University of Michigan, Ann Arbor, Mich. 48104.

COWAN, J. M(ILTON), Gen. Ling, see 5th ed, Dir. of Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

COWAN, PROF. L(AING) GRAY, b. Galt, Ont, May 31, 22. INTERNATIONAL RELATIONS. B.A, Toronto, 43; A.M, Columbia, 44, Ph.D, 50. Asst. prof. govt, SCH. INT. AFFAIRS, COLUMBIA, 50-59, PROF. GOVT. & DIR. PROG. STUDIES AFRICA, 59-, asst. dir. sch, 48-53. Mem. Coun. For. Rels. Polit. Sci. Asn. African affairs; western Europe. Publ: Local government in West Africa; Dilemmas of African independence. Address: School of International Affairs, Columbia University, New York, N.Y. 10027.

COWAN, DR. THADDEUS McKELVEY, b. Bridgeport, Conn, Dec. 26, 34; m. 59; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Centre Col, 57; M.A, Connecticut, 59, Ph.D.(exp. psychol), 64. Instr. PSYCHOL, Connecticut, 62-64; ASST. PROF, Albion Col, 64-66; OKLA. STATE, 66- Res. consult, Hissom Mem. Center, 66- AAAS; assoc. Psychol. Asn; Psychonomic Soc. Verbal behavior; memory; learning; mathematical models of behavior. Publ: An Urn model for recall organization, Psychonomic Sci, 66; A Markov model for the order of emmission in free recall, J. Math. Psychol, 66; An observing response analysis of visual search, Psychol. Rev, (in press). Address: Dept. of Psychology, Oklahoma State University, Stillwater, Okla. 74074.

COWDEN, PROF. DUDLEY JOHNSTONE, b. Grinnell, Iowa, Jan. 10, 99; m. 26. STATISTICS, ECONOMICS. A.B, Grinnell Col, 19; A.M, Chicago, 22; Roberts fel, Columbia, 29-30, univ. fel, 30-31, Ph.D, 31. Instr, St. John's (N.Y), 31-34; Williams Col, 34-35; assoc. prof. econ, NORTH CAROLINA, 35-41, PROF. ECON. STATIST, 41- Hon. res. assoc, Univ. Col, London, 58. AAAS; Econ. Asn; fel. Statist. Asn; Soc. Qual. Control. The statistical method in economics; business statistics; measures of exports of the United States. Publ: Applied General Statistics; Practical Business Statistics; Statistical Methods in Quality Control. Address: Dept. of Economics, University of North Carolina, Chapel Hill, N.C. 27514.

COWDEN, DEAN T(HOMAS) K(YLE), b. Hickory, Pa, June 14, 08; m. 37; c. 2. AGRICULTURAL ECONOMICS. B.S, Ohio State, 30, M.S, 31; Ph.D.(agr. econ), Cornell, 37; hon. Ph.D, Purdue, 66. Instr, Pa. State Col, 31-36; prof, Purdue, 37-43; dir. res. agr. policy, Am. Farm Bur. Fedn, Chicago, 43-49; prof. & head dept. agr. econ, MICH. STATE, 49-54, DEAN COL. AGR. 54- Econ. Asn; Agr. Econ. Asn.(v.pres, Farm Econ. Asn, 48, pres, 55). Agricultural policy and marketing. Address: 831 Collingwood Dr, East Lansing, Mich. 48823.

COWELL, DR. DAVID A(RTHUR), b. Teaneck, N.J, May 2, 38; m. 62; c. 2. POLITICAL SCIENCE. B.A, Drew, 61; fel, Georgetown, 62-63, Relm Found. H.B. Earhardt fels, 63-65, M.A, 63, Ph.D.(polit. sci), 68. ASST. PROF. POLIT. SCI, LYCOMING COL, 66- U.S.C.G.R, 56-64. Polit. Sci. Asn. Comparative government, especially Canadian federal problems;

European political systems and comparative political development. Address: Dept. of Political Science, Lycoming College, Williamsport, Pa. 17701.

COWEN, PROF. DAVID L(AURENCE), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COWEN, PROF. EMORY L(ELAND), b. New York, N.Y, Apr. 20, 26; m. 47; c. 4. PSYCHOLOGY. A.B, Brooklyn Col, 44; A.M, Syracuse, 48, univ. fel, 49-50, Ph.D.(psychol), 50. Asst. prof. PSYCHOL, ROCHESTER, 50-55, assoc. prof, 55-60, PROF. & ASSOC. CHMN. DEPT, 60-, DIR. CLIN. TRAINING, 58-, ASSOC. PSYCHIAT, 61- U.S. Pub. Health Serv. sr. res. fel, Paris, 61-62. Consult. psychologist, Vet. Admin, 55- Mem. study sect, U.S. Pub. Health Serv, 63-64; State Bd. Exam. of Psychologists, N.Y, 63-, chmn, 64-66; psychol. training cmt, Nat. Inst. Ment. Health, 64- U.S.N, 44-46, Lt.(jg). Psychol. Asn. Early detection and prevention of emotional disorder; training new sources of nonprofessional mental health manpower; basic personality research; anxiety; rigidity; self concept; motivational factors in learning, perception and memory. Publ: Co-auth, Adjustment to visual disability in adolescence, Am. Found. for Blind, 62 & Emergent approaches to mental health problems, Appleton, 67; Personality and field factors related to psychological rigidity. Address: Dept. of Psychology, University of Rochester, Rochester, N.Y. 14627.

COWGILL, PROF. DONALD O(LEN), b. Wood River, Nebr, May 10, 11. SOCIOLOGY. A.B, Park Col, 33; A.M, Washington (St. Louis), 35, univ. fel, 35-36; Harrison fel, Pennsylvania, 36-37, Ph.D, 40; Minnesota, 41; Missouri, 42-43. Assoc. prof. sociol. & dean men, Drury Col, 37-42; sr. res. analyst, State Soc. Security Cmn, Mo, 42-43; res. asst. to v.pres, Studebaker Corp, 43-45; PROF. SOCIOL, Drake, 45-46; Wichita State, 46-67; MISSOURI, 67- Fulbright lectr, Univ. Chiengmai, 64-65; summers, fel, inter-univ. inst. soc. geront, California, Berkeley, 59, lectr, Mindolo Ecumenical Centre, Zambia, 62. Consult, Wichita Community Planning Coun, 46-67. Sociol. Asn; Geront. Soc; Pop. Asn. Urban ecology, gerontology and population movements. Publ: Mobile homes; co-auth, People of Wichita, Metro Plan Cmn, 61; auth, Demographic transition theory, Soc. Forces, 65. Address: Dept. of Sociology, University of Missouri, Columbia, Mo. 65201.

COWGILL, DR. GEORGE L, b. Grangeville, Idaho, Dec. 19, 29. ANTHROPOLOGY. B.S, Stanford, 52; Minneapolis-Honeywell Regulator Co. fel, Iowa State, 52-53, M.S, 54; Nat. Sci. Found. fel, Chicago, 55-56, M.A, 56; Doherty Found. fel, Harvard, 58-59, Nat. Sci. Found. fel, 59-60, Ph.D.(anthrop), 63. Instr. ANTHROP, BRANDEIS, 60-62, asst. prof, 62-67, ASSOC. PROF, 67- Res. assoc, Rochester, 67. Assoc, René Millon, 64- AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol. Middle American prehistory; computer and mathematical methods in anthropology; cultural ecology; archaeological theory. Publ: The end of classic Maya culture: a review of recent evidence, Southwest. J. Anthrop, 64; Statistics and sense: more on the Purum case, Am. Anthrop, 64; Computers and prehistoric archaeology, In: Computers and humanistic research, Prentice-Hall, 67. Address: Dept. of Anthropology, Brandeis University, Waltham, Mass. 02154.

COWHIG, DR. JAMES D(ANIEL), b. Minneapolis, Minn, Jan. 22, 25. SOCIOLOGY. Fel, Mich. State, 51-52, Ph.D.(sociol), 54. Res. instr, Mich. State, 54; sociol. res. analyst, State Dept. Ment. Health, Mich, 54-56; res. officer, nat. hqs, Fed. Civil Defense Admin, 56-57; SOC. SCIENTIST, econ. res. serv, U.S. Dept. Agr, WASH, D.C, 57-64; U.S. DEPT. HEALTH, ED. & WELFARE, 64- U.S.A, 43-46. Sociol. Asn; Pop. Asn. Human ecology; labor force analysis. Address: 333 S. Glebe Rd, Arlington, Va. 22204.

COWLES, ALFRED, b. Chicago, Ill, Sept. 15, 91; m. 23; c. 2. ECONOMICS. A.B, Yale, 13. Investment res. 23-32; PRES. COWLES CMN. RES. IN ECON, CHICAGO, 32- Dir, Tribune Co. & subsidiary corps, 39-; Passavant Mem. Hosp, 48-65, hon. dir, 65- Fel. AAAS; Econmet. Soc; Int. Statist. Inst. Statistics. Address: 435 N. Michigan Ave, Chicago, Ill. 60611.

COWLES, PROF. JOHN T(ODD), b. Burlington, Vt, July 31, 11; m. 37; c. 4. PSYCHOLOGY. A.B, Princeton, 34; Ph.D.(psychol), Yale, 37. Asst. psychobiol, Yale, 34-37; Nat. Res. Coun. fel. psychol, California, 37-38; instr, Alabama, 38-39; asst. prof, Illinois, 39-46; res. psychologist, Aeromed. Lab, Wright Field, Ohio, 46; dir. aviation psychol. res. unit, Air Training Command, Tex, 46-47, dir. res, 47-48; sr. proj. dir, Ed. Testing Serv, 48-54; asst. personnel servs. to v.chancellor, schs. health professions, PITTSBURGH, 54-57, assoc. dir, off. ed. res, 57-59, dir. ed. planning, 59-61, prof. psychol, sch. med, 54-61, PROF. PSYCHOL. & ED, 63-; pres, Maurice Falk Med. Fund, 61-63. Vis. lectr. & assoc. prof, Princeton, 48-53; vis. prof, Columbia Univ. team in India, 64-65. Expert consult, Dept. Defense, 51-55; Nat. Insts. Health, 58-64. U.S.A.A.F, 42-45. AAAS; fel. Psychol. Asn; Psychomet. Soc. Evaluation in higher education; psychometric techniques. Address: Dept. of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15213.

COWLES, PROF. MILLY, b. Ramer, Ala, May 29, 32. EDUCATION, DEVELOPMENTAL PSYCHOLOGY. B.S, Troy State, 52; M.A, Alabama, 58, fel, 59-62, Ph.D.(elem. ed), 62. Teacher, elem. sch, 52-59; asst. prof. EARLY ELEM. ED, grad. sch. ed, Rutgers, 62-65, assoc. prof, 65-66; Georgia, 66-67; PROF, SOUTH CAROLINA, 67 Participant, inst. higher ed, Georgia, 66-67. Consult, KeKalb County Sch. Syst, 67-68. Dir, South. Regional Conf. Early Childhood Ed, 67; mem. early childhood adv. cmt, South. Ed. Found, 67-68. AAAS; Soc. Res. Child Develop; Ed. Res. Asn. Early childhood education; teaching of reading and language. Publ: Ed, Perspectives in the education of disadvantaged children, World, 67; auth, One front in the war on poverty: Operation Head Start, Am. Asn. Univ. Women J, 10/65; co-auth, Visual-perceptual training for kindergarten pupils, Urban Ed, 10/66. Address: School of Education, University of South Carolina, Columbia, S.C. 29208.

COWLEY, PROF. W(ILLIAM) H(AROLD), b. Petersburg, Va, May 28, 99; m. 34. EDUCATIONAL PSYCHOLOGY. A.B, Dartmouth Col, 24; fel, Chicago, 25-27, Ph.D.(psychol), 30; LL.D, Hamilton Col, 38, St. Lawrence, 43; L.H.D, Hobart Col, 39; Litt.D, Union Col, 40. With Bell Tel. Labs, Inc, New York, 24-25; asst. to pres, Hamilton Nat. Bank, 24; dir. bd. voc. guid. & placement, Univ. Chicago, 27-29; res. assoc. & asst. prof. psychol, bur. ed. res, Ohio State, 29-34, assoc. prof, 34-35, prof, 35-38; pres, Hamilton Col, 38-44; prof. HIGHER ED, STANFORD, 45-54, DAVID JACK PROF, 54- Psychol. Asn. History of educational ideas; organizational taxonomy. Address: Dept. of Education, Stanford University, Stanford, Calif. 94303.

COWNE, PROF. LESLIE JOAN, b. London, Eng; nat; m. 54; c. 1. PSYCHOLOGY. A.B, Hunter Col, 51, M.A, 52; Ed.D, Columbia, 55. Asst. psychol, Columbia, 52-54; Sch. psychologist, New Lincoln Sch, 56-57; assoc. prof. psychol, Newark State Col, 57-59; ASST. PROF. ED, BROOKLYN COL, 59- Asst, Hunter Col, 53-54. Psychol. Asn. Intelligence testing; adolescent adjustment problems. Publ: A study of the California Short Form Test of Mental Maturity & Reliability of the Crary American History Test, Form Bm, and correlation of scores with school marks, Ed. Records Bull. Address: 305 E. 24th St, Apt. 15C, New York, N.Y. 10010.

COX, PROF. A(LONZO) B(ETTIS), b. Enfield, Ill, Apr. 2, 84. ECONOMICS. A.B, Texas, 11, A.M, 14; Ph.D, Wisconsin, 20; LL.D, Abilene Christian Col, 38. Asst. to Dr. Richard T. Ely, Wisconsin, 18-20; head div. farm & ranch econ, exp. sta, Agr. & Mech. Col, Tex, 20-23; agr. economist, U.S. Dept. Agr, Europe, 24-25; prof. cotton mkt. res, Tex. resources, industs. & cotton, TEXAS, AUSTIN, 26-65, organizer & dir, bur. bus. res, 26-45, EMER. PROF. COTTON MKTS, 65- Res. economist, Edward T. Robinson & Son, Europe, 28. Adv, Nat. Cotton Coun, 40-; spec. consult, U.S. Govt, 43- Supvr. cotton econ. res, Tex. Cotton Cmt, 47- Mem. Int. Cotton Cong, Prague, 33, Cairo, 37, 51. AAAS; Statist. Asn; Econ. Asn; Agr. Econ. Asn; Geog. Soc; Land Econ. Asn.(secy, 18-20). Cotton prices and markets; services in cotton marketing. Publ: Supply-demand merchandising; The know in the economics of cotton merchandising by laboratory measured fiber properties; Cotton, In: Encyclop. Brittanica. Address: 2700 Cherry Lane, Austin, Tex. 78703.

COX, DR. CLIFTON BENJAMIN, b. Brewton, Ala, Mar. 28, 16; m. 42; c. 3. AGRICULTURAL ECONOMICS. B.S, Auburn, 42, M.S, 48; Gen. Ed. Bd. fel, Purdue, 49-50, Ph.D, 50. Supvr, Farmers Home Admin, U.S. Dept. Agr, 41-47; teacher voc. agr, Bd. Ed, 47; instr. & asst. prof. agr. econ, Auburn, 48-49; asst. prof. Purdue, 50-54, assoc. prof, 54-57, prof, 57-60; dir, econ. res. dept, ARMOUR & CO, 60-61, econ. div, 61-63, v.pres, 63-67, GROUP V.PRES. FOODS, 67- Vis. res. prof, Harvard Bus. Sch, 57-58; summer, econ-in-action fel, Case, 52. Bus. consult, 55-60. Econ. Asn; Farm Econ. Asn; Statist. Asn. Price and supply analysis, especially on application to firm decisions; operational efficiency, especially microeconomic analysis; social science research methodology, especially computers. Publ: Competitive potential of the cotton industry; Predicting hog prices & Application of queueing theory in determining livestock unloading facilities, J. Farm Econ. Address: Armour and Company, Box 9222, Chicago, Ill. 60690.

COX, PROF. EDWARD F(RANKLIN), Mod. Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

COX, PROF. EDWIN B(URK), b. Philadelphia, Pa, Apr. 3, 30; m. 56; c. 2. STATISTICS, ECONOMICS. A.B, Pennsylvania, 51, M.A, 53, Fuld Found. fel, 58-60, Ph.D.(econ), 60; Ohio State, 54-55. Instr. statist, Wharton Sch, Pennsylvania, 51-54, 56-60; econ, Wittenberg Col, 55-56; asst. prof. bus. admin, BOSTON, 60-62, assoc. prof. econ. & statist, 62-64, PROF. BUS. ADMIN, 64-, ASST. DEAN COL. BUS. ADMIN, 65- U.S.A.F, 54-56. Statist. Asn; Econ. Asn. Measurement of distributions of income and wealth; applied quantitative economic analysis for the firm and industry. Publ: Trends in distribution of stock ownership; Henry L. Moore and the statistical complement to pure economics, Am. Statistician; Changes in the size distribution of dividend income, J. Am. Statist. Asn, 61. Address: Boston University College of Business Administration, Boston, Mass. 02215.

COX, DR. ELI PEACE, b. Lampasas Co, Tex, June 15, 11; m. 39; c. 4. MARKETING, BUSINESS ECONOMICS. B.S, North Texas State, 32, M.S, 38; Ph.D. (mkt), Texas, 56. Prof. mkt. & dir. div, North Texas State, 46-49, 52-55 & 56-58; chief regional economist, region X, Off. Price Stabilization, 50-52; assoc. prof. mkt, Texas, 55-56; PROF. MKT. & DIR. DIV. BUS. & ECON. RES, MICH. STATE, 58- Chief of party, Mich. State group, Turkey, 64-67. Consult, bus. & econ. res, Brazil, spring 60 & fall 61. Mem. Assoc. Univ. Bur. Bus. & Econ. Res. U.S.N.R, 43-46, Lt. Mkt. Asn. Consumer research, especially consumer trade flows and the reaction of consumers to changing economic and social environments. Publ: Co-auth, Economic and population base study of the Lansing tri-county area, 60 & Retail decentralization, 67, Bur. Bus. & Econ. Res; auth, Changes in retail trade flow, J. Mkt, 1/64. Address: Division of Research, 5-I Berkey Hall, Michigan State University, East Lansing, Mich. 48823.

COX, PROF. GARFIELD V, b. Fairmount, Ind, May 4, 93; m. 17; c. 3. ECONOMICS. A.B, Beloit Col, 17; LL.D, 46; Ph.D, Chicago, 29; LL.D, Earlham Col, 63. Prof. pub. speaking, Wabash Col, 17-20; instr. bus. admin, CHICAGO, 20-25, asst. prof, 25-29, assoc. prof, 29-30, prof. FINANCE, 30-36, Robert Law prof, 36-58, acting dean sch. bus, 42-45, dean, 45-52, ROBERT LAW EMER. PROF, 58- Lectr, South. Calif. Sch. Theol, 61-63; Claremont Grad. Sch, 62-63; Chicago Theol. Sem, 64. Consult, Armour & Co, 31-34. Chmn. bd. dirs, South East. Nat. Bank, Chicago, Ill, 35-60; Chicago regional off, Am. Friends Serv. Cmt, 46-55; trustee, Earlham Col, 54-59. Econ. Asn; Finance Asn.(pres, 54). Monetary and banking policy; forecasting business fluctuations; ethical issues in business and government. Publ: Co-auth, Forecasting business conditions; auth, An appraisal of American business forecasts; Forecasting plant and equipment expenditures, J. Bus. Address: 660 Bonita Ave, Apt. 24E, Claremont, Calif. 91711.

COX, DR. GRACE BELDEN, b. Staunton, Ill, Dec. 8, 06. CLINICAL PSYCHOLOGY. B.Ed, Ill. State Nor. Univ, 32; Ill. Inst. Juvenile Res, 37-38; M.A, Illinois, 39; Mooseheart Lab. Child Res, 42-43; Ed.D, Temple, 58. Teacher, pub. schs, Ill, 26-38; guid. counsr. remedial instr, Lanphier High Sch, Ill, 38-42; clin. psychologist, State Dept. Pub. Welfare, Ill, 42-43; dir. child study dept, pub. schs, Iowa, 43-46; clin. psychologist, Tri-County Child Guid. Center, Pa, 46-47; bur. ment. health, State Dept. Welfare, Pa,

47-50; chief northeast area psychologists, State Dept. Pub. Instr. & Div. Spec. Ed, Ill, 50-53; chief psychol. serv, off. ment. health, Pa. State Dept. Pub. Welfare, 53-64; DIR. PSYCHOL, HAMBURG STATE SCH. & HOSP, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Psychol. Asn; Asn. Ment. Deficiency; Soc. Proj. Tech. Planning new facilities for mentally retarded and emotionally disturbed children; raising professional standards and compensation for psychologists in the mental health systems. Publ: Present status of psychological services in state hospitals and training schools in Pennsylvania, Dissertation Abstracts; Day hospitals: new techniques for the emotionally and socially maladjusted, Pa. Psychiat. Quart; co-auth, Study of teachers responses to problem situations in school as reported by teachers and by students. Address: Hamburg State School & Hospital, Hamburg, Pa. 19526.

COX, DR. GRACE GOLUB-GREEN, b. Boston, Mass, Nov. 6, 17; m. 43; c. 1. PSYCHOLOGY. B.A, Smith Col, 39; M.A, Columbia, 40; Nat. Inst. Ment. Health fel, California, Berkeley, 59-61, Ph.D.(child develop), 62. Psychologist, U.S. Govt, 41-48; chief clin. psychologist, Child Guid. Clin, Calif, 50-58; psychologist, Tamalpais Union High Sch. Dist, Larkspur, 61-66; ASST. PROF. PSYCHOL, SAN FRANCISCO STATE COL, 66-, 52, 53 & 61. Psychol. Asn. Child development; parent child relationships; ego psychology. Address: 370 Lovell Ave, Mill Valley, Calif. 94941.

COX, DR. JAMES LEE, b. Limon, Colo, Feb. 6, 40; m. 62; c. 2. POLITICAL SCIENCE. B.A. & Nat. Defense Ed. Act fel, Colorado, 62, M.P.A, 65, Ph.D. (polit. sci), 65. ASST. PROF. govt. & polit, Maryland, 65-68; POLIT. SCI, DELAWARE, 68- Nat. Sci. Found. res. grant & vis. scholar, inter-univ. consortium polit. res, Michigan, summer, 67. Consult, Prince George's County, Md. Govt. Study Cmn, summer, 66. Polit. Sci. Asn; Soc. Pub. Admin. Urban affairs; state and local government; intergovernmental relations. Publ: Metropolitan water supply: the Denver experience, Bur. Govt. Res. & Serv, Univ. Colorado, 67; Federal urban development policy and the Metropolitan Washington Council of Governments: a reassessment, Urban Affairs Quart, 9/67. Address: Division of Urban Affairs, University of Delaware, Newark, Del. 19711.

COX, DR. JOHN A(RLINGTON), b. Ardmore, Okla, Apr. 26, 22; m. 42; c. 3. PSYCHOLOGY. B.S, N.Tex. State Col, 46, M.S, 48; Ph.D.(ed. psychol), Texas, 54. Res. psychologist, Air Force Personnel & Training Res. Center, 48-59; Trinity (Tex), 59-61; sr. scientist, HumRRO, 61-67; MEM. FACULTY, HOUSTON, 67- C.W.S, U.S.A.A.F, 42-45. Psychol. Asn. Construction of measuring instruments; social psychology. Publ: Development and validation of the MDAP English proficiency examinations; Race bias in peer ratings of basic airmen; A correlation analysis of adolescent sociometric scores. Address: Counseling & Testing, University of Houston, Houston, Tex. 77004.

COX, PROF. JOHN R(OBERT), b. Winter Park, Fla, Feb. 21, 19; m. 51; c. 4. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Indiana, 47; M.B.A, Chicago, 48; Ford Found. fel, Southern California, 58, Haynes Found. fel, 60, Ph.D.(econ), 62. Staff weather officer, U.S. Air Force, 52-53; instr. econ, Southern California, 53-55; asst. prof. FINANCE, CALIF. STATE COL. LOS ANGELES, 55-62, assoc. prof, 62-66, PROF, 66- U.S.A.F.R, 42-, Lt. Col. Finance Asn. Urban mortgage lending. Publ: Co-auth, Real estate finance syllabus, Real Estate Cmnr, State of Calif, 59. Address: Dept. of Finance, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

COX, DR. KEVIN ROBERT, b. Warwick, Eng, Mar. 22, 39; m. 65. GEOGRAPHY. B.A, Cambridge, 61; M.A, Illinois, 63, Ph.D.(geog), 66. ASST. PROF. GEOG, OHIO STATE, 65- Nat. Sci. Found. res. grant, 66-68. Asn. Am. Geog; Regional Sci. Asn; Polit. Sci. Asn; Sociol. Asn. Behavior in a spatial context. Publ: The application of linear programming to geographic problems, Tidjschrift voor Economische en sociaale Geografie, 11/65; Suburbia and political behavior in the London metropolitan area, Ann. Asn. Am. Geog, 3/68; Spatial structuring of information flow and partisan attitudes, In: Quantitative ecological analysis in the social sciences, Mass. Inst. Tech, 68. Address: Dept. of Geography, Ohio State University, Columbus, Ohio 43210.

COX, DR. MARION MONROE, b. Mt. Vernon, Ind, Feb. 4, 98; m. 42; c. 3. PSYCHOLOGY. A.B, Oklahoma, 19; A.M, Chicago, 24, Ph.D.(psychol), 29. Res. psychologist, behav. res. fund, Inst. Juvenile Res, 29-32; chief psychologist, Child Guid. Center, 32-36; specialist remedial instr, Bd. Ed, Pa, 36-42; consult. reading, child guid. dept, pub. schs, Calif, 44-45; supvr. reading div, psychol. serv. center, Southern California, 45-51; ED. CONSULT, 52- Psychol. Asn. Clinical psychology; methods for diagnosis and treatment of reading disability. Publ: Growing into reading; Foundations for reading; co-auth, Language arts, Scott, Foresman & Co. Address: 1790 Sunningdale Rd, Apt. 15 A, Seal Beach, Calif. 90740.

COX, PROF. OLIVER C(ROMWELL), b. Trinidad, B.W.I, Aug. 25, 01. SOCIOLOGY. B.S.L, Northwestern, 28; fel, Chicago, 32, A.M, 32, Ph.D, 38; LL.D, Wiley Col, 45. PROF. sociol. & econ, Wiley Col, 38-44; SOCIOL, Tuskegee Inst, 44-49; LINCOLN, 49- Fel. Sociol. Asn; Econ. Asn. Social change; race relations; sex ratio and marital status. Publ: Capitalism and American leadership; Caste, class and race, Doubleday, 48; Capitalism as a system, Monthly Rev, 64. Address: Dept. of Sociology, Lincoln University, Jefferson City, Mo. 65101.

COX, PROF. RACHEL DUNAWAY, b. Murray, Ky; m. 28; c. 2. PSYCHOLOGY, EDUCATION. A.B, Texas, 25; A.M, Columbia, 30; Ph.D.(ed, psychol), Pennsylvania, 43. Lectr. PSYCHOL. & ED, BRYN MAWR COL, 44-45, asst. prof, 45-49, assoc. prof, 49-55, PROF, 55-, DIR. CHILD STUDY INST, 44- Psychol. Asn; Soc. Proj. Tech; Personnel & Guid. Asn; Nat. Asn. Soc. Workers. Clinical psychology; child development; counseling; normal adults; adolescent cliques. Publ: Counselors and their work; The normal personality, J. Proj. Tech; Motivating students of all levels of ability, J. Women Deans & Counsrs. Address: 503 Walnut Lane, Swarthmore, Pa. 19081.

COX, PROF. REAVIS, b. Guadalajara, Mex, Sept. 2, 00; U.S. citizen; m. 28; c. 2. MARKETING. A.B, Texas, 21; Ph.D, Columbia, 32. Market ed, J. Commerce, 26-31; instr. bus. admin, Columbia, 31-35; from assoc. prof. to prof. MKT, PENNSYLVANIA, 35-67, S.S. KRESGE PROF, 67- Consult, 33-; mem, nat. mkt. adv. cmt, U.S. Dept. Commerce, 66- Ed, Mkt. in Am. Econ, 52. Fel. AAAS; Econ. Asn; Statist. Asn; Mkt. Asn.(ed, Jour, 43-44; pres, 59-60). Economics; consumer credit; comparative marketing. Publ: Co-auth, Distribution in a high-level economy, Prentice-Hall, 65. Address: Dept. of Marketing, University of Pennsylvania, Philadelphia, Pa. 19104.

COX, PROF. REX W(ARFIELD), b. Cerro Gordo, Ill, Oct. 12, 88; m. 44. AGRICULTURAL ECONOMICS. B.S, Illinois, 14; M.S, Cornell, 23, Ph.D, 30. Mem. faculty, East. Ky. Teachers Col, 18-22, 23-27; asst. prof. agr. econ, Minnesota, 29-48, assoc. prof, 48-57; prof. econ, S.Dak. State Col, 57-59; agr. economist, upper midwest econ. study, Minnesota, Minneapolis, 59-62; PROF. AGR. ECON, N.DAK. STATE, 62- Farm Econ. Asn. Marketing and prices of agricultural products; outdoor recreation. Address: Dept. of Agricultural Economics, North Dakota University, Fargo, N.Dak. 58102.

COX, PROF. RICHARD H, b. Hammond, Ind, Mar. 3, 25; m. 53. POLITICAL SCIENCE. B.S, Northwestern, 49, M.A, 52; Asher fel, Chicago, 51-53, Carnegie fel, 53-54, Ph.D.(polit. sci), 55; Rockefeller fel, Oxford, 54-55. Instr, govt, Harvard, 55-57; asst. prof. POLIT. SCI, California, Berkeley, 57-63; assoc. prof, STATE UNIV. N.Y. BUFFALO, 63-65, PROF, 65- Chester Nimitz Chair soc. & polit. philos, U.S. Naval War Col, 67-68. U.S.A, 43-46. Polit. Sci. Asn; Soc. Legal & Polit. Philos. Seventeenth century political theory; international relations. Publ: Locke on war and peace, Oxford Univ, 60; The state in international relations, Chandler Pub, 65. Address: 836 Tacoma Ave, Buffalo, N.Y. 14216.

COX, PROF. ROY LEONARD, b. Knoxville, Tenn, Apr. 8, 23; m. 54. SOCIOLOGY OF EDUCATION. B.S, Tennessee, 53, M.A, 54, M.S, 55, Ed.D.(ed. sociol), 61; Ed.S, George Peabody Col, 60. Teacher, high sch, Tenn, 54-57; instr. sociol, Tennessee, 57-62; assoc. prof. ED. & SOC. FOUND, MISS. STATE COL. WOMEN, 62-63, PROF, 63-, CHMN. ED. DEPT. & DIR. TEACHER ED, 64-, faculty res. grant, 63, 64. Consult, Ford Found, 57-60. U.S.A.A.F, 42-46; U.S.A, 50-51, 1st Lt. Sociol. Asn; Acad. Polit. & Soc. Sci. The family; curriculum change; family systems. Publ: Co-auth, Southern citizenship problems, Harlow, 60; Social foundations of education. Am. Book Co, 68; auth, Curriculum standards, Clearing House, 65. Address: Dept. of Education, Mississippi State College for Women, Drawer 280, Columbus, Miss. 39701.

COX, PROF. WILLIAM E(DWIN), JR, b. Miami, Fla, Feb. 20, 30; m. 55; c. 2. MARKETING, STATISTICS. B.S.B.A, Florida, 52; Yellow Transit Freight Lines, Inc. fel, Michigan, 56-57, M.B.A, 57, univ. scholar, 57-58, Ph.D. 63. Trainee mgt, Procter & Gamble Co, 54-56; asst, Brookings Inst. Steel Study, Mich, 57-58; asst. prof. MKT, CASE WESTERN RESERVE, 58-63, assoc. prof, 63-67, PROF, 67-, DIR. BUR. BUS. RES, 64-, res. assoc, 58-64. Consult, Ferry Cap & Set Screw Co, Ohio, 60-62. U.S.A, 52-54, 1st Lt. Mkt. Asn; Statist. Asn; Econ. Asn. Marketing and opinion research: application of mathematics and statistics to marketing problems. Publ: Response patterns to mail surveys, J. Mkt. Res, 11/66; The census of business: some contrary evidence, J. Mkt, 7/67; Product life cycles as marketing models, J. Bus, 10/67. Address: School of Management, Case Western Reserve University, Cleveland, Ohio 44106.

COXE, DR. WARREN W(INFRED), b. Belvidere, Ill, July 19, 86; m. 35; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Dakota Wesleyan, 11; Chicago, 12, 14, 15-16; fel, Ohio State, 21-23, Ph.D.(sch. admin), 23. Instr. & prin, pub. schs, Minn, 11-15; asst. dir, voc. bur, Cincinnati, 16-21; chief bur. ed. measurements, State Ed. Dept, N.Y, 23-29, dir. div. res, 29-56; RETIRED. Psychologist, Cincinnati Gen. Hosp, Ohio, 16-17; regional coordinator, Proj. Talent, 59-65. Psychol. exam, U.S.A, 18. Fel. Psychol. Asn; fel. Ed. Res. Asn. Educational administration; secondary education; measurement of intelligence. Publ: Co-auth, Performance ability scale: state school administration, In: Encyclop. of Educational Research; auth, The function of the school psychologist, Psychol. Schs, 10/64. Address: 120 Salisbury Rd. Delmar, N.Y. 12054.

COY, DR. GENEVIEVE L(ENORE), Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

COYLE, DR. EMERSON, b. Brooklyn, N.Y, Oct. 13, 14; m. 46; c. 2. PSYCHOLOGY. S.B, Harvard, 37; Ph.D, Columbia, 56. Statistician, R.H. Macys Co. Inc, 38-39; advert. & personnel worker, J.C. Penney Co, Inc, 39-42; price analyst econ, Off. Price Admin, 42-43; counseling psychologist, Vet. Admin, 46-50; COORDINATOR, GEN. COUNSELING PROG, SCH. GEN. STUDIES, BROOKLYN COL, 50-; PSYCHOLOGIST, 50- Lectr, Brooklyn Acad. Mus, 62-; Cooper Union, 64. Panelist, Long John Radio Show, 56-; panel psychologist, New York State Div. Voc. Rehab, 62-; consult, Soc. Security, 62- U.S.C.G, 43-45. Psychol. Asn; Mensa; Inter-Am. Soc. Psychol; Personnel & Guid. Asn; Nat. Rehab. Asn; Soc. Sci. Study Sex. Philosophy; clinical versus statistical prediction; longitudinal mortality study of college students; motivation; common pitfalls facing college students; communication; human relations; motivation; maturity; growth. Publ: Ed, The branch counselor, The Brooklyn psychologist & Vocational speaking. Address: 49 Russell Rd, Garden City, N.Y. 11530.

CRABB, PROF. CECIL V, JR, b. Clarksdale, Miss, July 18, 24; m; c. 2. POLITICAL SCIENCE. A.B, Centre Col, 47; M.A, Vanderbilt, 48, univ. fel, 50-51, Hull fel, 51-52; univ. fel, Hopkins, 51-52, Ph.D.(polit. sci), 52. Instr. POLIT. SCI, VASSAR COL, 52-53, asst. prof, 53-59, assoc. prof, 59-62, PROF, 62- U.S.A, 42-46. United States foreign policy; international relations; diplomacy of the neutralist world. Publ: Bipartisan foreign policy: myth or reality?; American foreign policy in the Nuclear Age; The elephants and the grass: a study of nonalignment. Address: 31 Homer Place, Poughkeepsie, N.Y. 12603.

CRABB, DR. DAVID WENDELL, b. North Adams, Mass, Sept. 10, 25. ANTHROPOLOGY, LINGUISTICS. B.A, Colorado Col, 51; Ph.D.(anthrop), Co-

lumbia, 62. ASSOC. PROF. ANTHROP, PRINCETON, 63- African Studies Asn. Symbolics and language; the new ethnography. Publ: Ekoid Bantu languages of Ogoja, Cambridge Univ, 66. Address: Dept. of Anthropology, 2-C-1 Green Hall, Princeton University, Princeton, N.J. 08540.

CRABBS, PROF. RICHARD F, Polit. Sci, see 10th ed, Soc. & Behav. Vols. Latest known address: The American University in Cairo, 113 Sharia Kasr El Aini, Cairo, Egypt, U.A.R.

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CRADDOCK, DR. WILLIAM JOHN, b. Rosetown, Sask, Mar. 20, 38; m. 60; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Saskatchewan, 62; M.S.A, Toronto, 63; Ph.D.(agr. econ), Iowa State, 66. Res. asst. econ. div, Can. Dept. Agr, 61; AGR. ECON, Saskatchewan, 62; Iowa State, 63-66, res. assoc, 66; asst. prof, MANITOBA, 66-68, ASSOC. PROF, 68- Am. Econ. Asn; Am. Agr. Econ. Asn; Can. Agr. Econ. Soc; Can. Econ. Asn; Economet. Soc. Statist. Asn. Optimal resource allocation and adjustment in agriculture. Address: Dept. of Agricultural Economics, University of Manitoba, Winnipeg 19, Man, Can.

CRAFT, DEAN JAMES P(RESSLEY), JR, b. Louisville, Ga, Nov. 1, 13; m. 37; c. 3. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.S, U.S. Naval Acad, 34; U.S. Naval Postgrad. Sch, 40-42; M.S, Mass. Inst. Tech, 43; U.S. Naval War Col, 52-53; fel, Pennsylvania, 62-68. Teacher naval eng. & asst. head dept, U.S. Naval Postgrad. sch, 48-51; DEAN MEN, PENNSYLVANIA, 64- U.S.N, 34-64, Capt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. International politics; comparative government of Western Europe; American government. Address: 459 Montgomery Ave, Haverford, Pa. 19041.

CRAFT, DR. JESSE H(ERMAN), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

CRAFT, DR. ROLF V, b. Waterloo, Iowa, Nov. 1, 37; m. 61; c. 2. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Iowa State, 59, M.S, 65, Ph.D.(agr. econ), 68. Assoc. ECON, Iowa State, 66-67; ASST. PROF, LUTHER COL, 67- U.S.A, 60, 1st Lt. Econ. Asn; Agr. Econ. Asn. Agricultural policy; economics of education. Address: 503 Mound St, Decorah, Iowa 52101.

CRAFTS, PROF. LELAND W(HITNEY), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 68.

CRAGER, DR. RICHARD LYNN, b. Milwaukee, Wis, July 8, 30; m. 52; c. 3. CLINICAL & CHILD PSYCHOLOGY. B.A, Valparaiso, 54; M.A, Bowling Green State, 55; Ph.D, Washington (Seattle), 59. Intern instr. psychol, Bowling Green State, 55-56; U.S. Pub. Health Serv. trainee CLIN. PSYCHOL, Washington (Seattle), 56-59; INSTR, Bowling Green State, 60-61; MED. CENTER, COLORADO, 61-, U.S. Pub. Health Serv. fel, 59-60. U.S.N, 49-50. Psychol. Asn. Psychopathology in childhood; early learning and development; anxiety. Publ: Co-auth, Standardization of the children's picture information test, J. Clin. Psychol. Address: Dept. of Psychiatry, University of Colorado Medical Center, 4200 E. Ninth Ave, Denver, Colo. 80220.

CRAIG, DR. ALAN K(NOWLTON), b. Ft. Sill, Okla, Mar. 7, 30; m. 59. GEOGRAPHY. B.S, La. State, 58, Ph.D.(geog), 66. ASST. PROF. GEOG, DePaul, 66; FLORIDA ATLANTIC, 66- Off. Naval Res. grant, 67-68. C.Eng, U.S.A, 51-55, 1st Lt. AAAS; Asn. Am. Geog; Am. Geog. Soc. Origin and dispersal of folk fishing techniques; physical ecology of the marine littoral; photo interpretation of natural resources and coastal geomorphology; culture history of Latin America. Publ: The geography of fishing in British Honduras and adjacent coastal areas, La. State Univ, 66; Brief ethnography of the Campa Indians, eastern Peru, America Indigena, 67; Lithophagic snail from southern British Honduras, Science, 67. Address: Dept. of Geography, Florida Atlantic University, Boca Raton, Fla. 33432.

CRAIG, PROF. EUGENE A(RNOLD), b. Wichita, Kans, Dec. 22, 22; m. 46; c. 1. PSYCHOLOGY. B.A, Tulsa, 48, M.A, 49; Ph.D.(psychol), Colorado, 50. Asst. prof. psychol, Whittier Col, 50-51; res. psychologist, Navy Electronics Lab, 51-54; HumRRO, George Washington, 54-55; asst. prof. PSYCHOL, Trinity (Tex), 55-58; res. assoc, Missouri, 59-60; assoc. prof, Lehigh, 60-66; PROF, CALIFORNIA STATE COL.(Pa), 66- U.S.N, 42-45. AAAS; Psychol. Asn; N.Y. Acad. Sci. Visual perception; human engineering. Publ: Perceptual-motor task achievement under two conditions of stimulus display, J. Gen. Psychol; co-auth, Visibility-invisibility cycles as a function of stimulus-orientation, Am. J. Psychol & Effect of figural reproduction on recognition, J. Psychol. Address: 19 Jefferis St, Uniontown, Pa. 15401.

CRAIG, DR. JAMES CHARLES, b. Cleveland, Ohio, June 14, 42; m. 64. PSYCHOLOGY. B.A, DePauw, 64; M.A, Princeton, 66, Ph.D.(psychol), 67. INSTR. PSYCHOL, PRINCETON, 67- AAAS; Psychol. Asn; Acoustical Soc. Sensory psychophysiology; signal detection and psychophysics; perception. Publ: Vibrotactile loudness addition, Perception & Psychophys, 66. Address: Dept. of Psychology, Green Hall, Princeton University, Princeton, N.J. 08540.

CRAIG, DR. KENNETH DENTON, b. Calgary, Alta, Nov. 21, 37. PSYCHOLOGY. B.A, Sir George Williams, 58; M.A, British Columbia, 60; fel, Oregon, 63; Ph.D.(psychol), Purdue, 64. Res. asst. PSYCHOL, Purdue, 60-62; ASST. PROF, BRITISH COLUMBIA, 63- Am. Psychol. Asn; Can. Psychol. Asn. Social learning; psychophysiology of emotion; behavioral influence. Address: Dept. of Psychology, University of British Columbia, Vancouver 8, B.C, Can.

CRAIG, DEAN PAUL G(ENE), b. Middletown, Ohio, Sept. 13, 26; m. 48. ECONOMICS. Ph.D.(econ), Ohio State, 53. Res. economist, Ohio Bur. Unemploy. Compensation, 53; instr. ECON, OHIO STATE, 53-54, asst. prof. & res. asst, bur. bus. res. 54-57, assoc. prof, 57-61, PROF, 61-, DEAN COL. SOC. & BEHAV. SCI, 68-, dept. chmn, 63-68. Ford Found. fel, Harvard, 59-60; vis. prof, Hawaii, 62-63. U.S.A, 45-47, 2nd Lt. Econ. Asn. Monetary theory and policy; business cycles; regional growth and development. Publ: Co-auth, Financing unemployment compensation, Ohio's experience; auth, The future growth of Hawaiian tourism, monogr, Univ. Hawaii, 63; Location factors in the development of steel centers, J. Regional Sci, 3/57. Address: 3122 Mt. Holyoke Rd, Columbus, Ohio 43221.

CRAIG, PROF. ROBERT C, b. Mich, Mar. 9, 21; m. 50; c. 4. PSYCHOLOGY. B.S, Mich. State, 43, M.A, 48; Ph.D.(psychol), Columbia, 52. Res. assoc. psychol, teachers col, Columbia, 50-52; asst. prof. ed, State Col. Wash, 52-55; res. scientist psychol, Am. Inst. Res, 55-58; assoc. prof. ed, Marquette, 58-61, prof, 61-66; prof. ed. & asst. dir. sch. adv. studies, MICH. STATE, 66-67, CHMN. DEPT. COUNSELING PERSONNEL SERV. & ED. PSYCHOL, 67- Lectr, Pittsburgh, 56-57. Consult, Am. Inst. Res, 58-; Bel-Mort Films, 58- Fel. AAAS; fel. Psychol. Asn; Statist. Asn. Learning; training; personnel evaluation; research methodology. Publ: Co-auth, American education, origins and issues, Bruce, 63; auth, Psychology of learning in the classroom, Macmillan, 66; Learning: understanding, transfer and retention, Rev. Ed. Res. Address: 1006 Wildwood Dr, East Lansing, Mich. 48823.

CRAIG, DR. WILLIAM JOHN, b. Sault Ste Marie, Ont, Feb. 23, 23; m. 57; c. 3. PSYCHOLOGY. B.A, Queen's (Ont), 49, M.A, 50; Ph.D, London, 60. Psychologist, Prince Albert & Regina Jails, 50-54; psychiat. res, Sask. Hosp, Weyburn, 54; Dept. Pub. Health, Sask, 54-65; lectr. exp. psychol, Saskatchewan, 65-66; ASST. PROF. PSYCHIAT, QUEEN'S (ONT), 66-, PSYCHOL, 67- Res. psychologist, Ont. Hosp, Kingston, 66- Can. Army, 44-45. Psychol. Asn. Disorders of thinking; retardation and motivation in psychiatric patients; objective tests; symptom ratings; behavior scales. Publ: Objective measures of thinking integrated with psychiatric symptoms, Psychol. Reports, 65; Breadth of association in psychiatric patients, J. Clin. Psychol, 67. Address: Dept. of Psychology, Ontario Hospital, Kingston, Ont, Can.

CRAIG, PROF. WILLIAM W(ARNELL), Geog, Conserv, see 10th ed, Soc. & Behav. Vols.

CRAIGHEAD, PROF. CARL F(AUBION), b. Carrington, Mo, July 6, 98; wid; c. 1. POLITICAL SCIENCE. B.A, William Jewell Col, 21; M.A, Oklahoma, 29. Head dept. hist, high sch, Okla. 21-43; instr. aircraft mechanics, Spartan Sch. Aeronaut, 43; aircraft carburetion, Sheppard Field, Tex, 43; U.S. Dept. Army Air Force, procurement inspector, Consol-Vultee Plant, 44; instr, Texas A&M, civilian counselor & coordinator, Bryan Field, 44-46; registrn. & training officer, Vet. Admin, 46-47; assoc. prof. govt. & hist, CORPUS CHRISTI, 47-66, EMER. PROF. POLIT. SCI, 66- U.S.A, 18. Polit. Sci. Asn. Education; history. Address: 701 N. Union, Coffeyville, Kans. 67337.

CRAIK, DR. KENNETH H(ENRY), b. Pawtucket, R.I, Apr. 10, 36; m. 57; c. 2. PSYCHOLOGY. A.B, Brown, 58; U.S. Pub. Health Serv. fels. & Ph.D, California, Berkeley, 64. ASST. PROF. PSYCHOL, CALIFORNIA, BERKELEY & ASST. RES. PSYCHOLOGIST, INST. PERSONALITY ASSESSMENT & RES, 64- Psychol. Asn. Personality theory and assessment; environmental psychology; temporal behavior; political behavior. Publ: Co-auth, Effect of covert alterations in clock rate upon time estimations and personal tempo, Perceptual & Motor Skills, 16: 597-610; co-auth, Relationship between motoric and ideational activity preference and time perspective in neurotics and schizophrenics, J. Consult. Psychol, 29: 460-467; The comprehension of the everyday physical environment, J. Am. Inst. Planners, 34: 29-37. Address: Dept. of Psychology, 3210 Tolman Hall, University of California, Berkeley, Calif. 94720.

CRAIN, DR. ALAN JOSEF, b. Rochester, N.Y, Sept. 10, 33; m. 59; c. 2. SOCIOLOGY. B.A, Col. Wooster, 55; Pittsburgh, 57-58; M.A, Western Reserve, 59, Ph.D.(sociol), 63. From instr. to asst. prof. family rels, Connecticut, 62-65; ASSOC. PROF. SOCIOL, ALLEGHENY COL, 65- Consult-dir. day care centers proj, Dept. Pub. Welfare, Conn, 64-65. Med.C, U.S.A, 55-57. Sociol. Asn; Nat. Coun. Family Rels. Sociology of the family with specialization in impact of crisis on parent-child and marital relations; minority relations; sociology of religion. Publ: Parental acceptance of mothers of diabetic children, J. Home Econ, 11/64; co-auth, Intermittent absence of fathers and children's parental perceptions, J. Marriage & Family, 8/65 & Family interaction, diabetes and sibling relationships, Int. J. Soc. Psychiat, winter 66. Address: Dept. of Sociology, Allegheny College, Meadville, Pa. 16335.

CRAIN, PROF. CLARK N(IXON), b. Ft. Collins, Colo, Apr. 3, 14; m. 41; c. 4. GEOGRAPHY. A.B, Colorado, 39, M.A, 40; Ph.D, Clark, 51. Asst. geog, Colorado, 40-41; instr, Monticello Col, 43-44; field supvr. agr. census, Bur. Census, 44-45; asst. prof. geog, DENVER, 45-46, assoc. prof, 46-59, PROF. GEOG. & REGIONAL DEVELOP, 59-, head dept, 46-66. Chief consult, Upper Indus Basin Develop. Plan, 66- U.S.N, 42-43. Asn. Am. Geog; Nat. Coun. Geog. Ed; Acad. Polit. & Soc. Sci; Astronaut. Soc; fel. Int. Inst. Arts & Letters. Interstate water distribution; climate and irrigation; agricultural and human resources in semiarid west; geomorphology and regional development. Publ: Military population impact on parts of Santa Barbara

County, California; Prediction model for population impact; Economics of development, In: Vol. II, Regional plan: northern Indus plain. Address: Dept. of Geography, University of Denver, Denver, Colo. 80210.

CRAIN, DR. KENNETH J(ONES), b. New Orleans, La, May 19, 31; m. 58; c. 2. PSYCHOLOGY. B.A, La. State, 53, scholar, Ohio State, 53-54, M.A, 55, Ph.D, 57. Asst. psychol, Ohio State, 55-57; res. assoc. exp. psychol, Appl. Psychol. Serv, 60-61; sr. res. engr. & head behav. sci. unit, Los Angeles div, N.Am. Aviation, Inc, 61-63; ASST. PROF. PSYCHOL. & RES. ASSOC. NEUROPSYCHOL, WHITTIER COL, 63- Instr, eve. div, Utica Col, 59; lectr, eve. div, Villanova, 60-61. U.S.A.F, 58-60, Capt. AAAS; Psychol. Asn. Neuropsychology; origins of consciousness. Publ: Analogy of all being, (in prep); Specification and description of surface colors; Binocular rivalry: its relation to intelligence and general theory of its nature and physiological correlates, J. Gen. Psychol, 64: 259-283. Address: Dept. of Psychology, Whittier College, Whittier, Calif. 90638.

CRAIN, DR. MELVIN, b. Ananeim, Calif, Nov. 16, 21; m. 44; c. 4. POLITICAL SCIENCE. A.B, Redlands, 46; M.A, Southern California, 47, fel, 47-50, Ph.D, 57. Res. analyst polit-mil. affairs, U.S. Dept. Air Force, 50-51; U.S. Intel, 51-59; asst. prof. POLIT. SCI, SAN DIEGO STATE COL, 59-62, ASSOC. PROF, 62- U.S.N.R, 43-46, Lt.(jg). Polit. Sci. Asn. Politics; American government; comparative government; political theory. Address: 8835 Harbison Canyon Rd, El Cajon, Calif. 92021.

CRAIN, DR. ROBERT L(EE), b. Louisville, Ky, Jan. 28, 34. SOCIOLOGY. B.A, Louisville, 56; North Carolina, 56-57; Nat. Sci. Found. fel, Chicago, 60-62, Ph.D.(sociol), 63. Asst. Prof. Sociol, Chicago, 62-68, sr. study dir, Nat. Opinion Res. Center, 64-68; ASSOC. PROF. SOC. RELS, HOPKINS, 68- U.S. Off. Ed, contract, 64; Ford Found. & Carnegie Corp. res. grants, 67. Sociol. Asn. Urban political sociology; race relations; math models. Publ: Co-auth, Politics of community conflict, Bobbs, 68; auth, Politics of school desegregation, Aldine, 68. Address: National Opinion Research Center, University of Chicago, Chicago, Ill. 60637.

CRAIN, DR. WILLIAM WILLIS, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

CRAINE, PROF. LYLE E(GGLESTON), b. Geneva, Ohio, Aug. 16, 08; m. 42; c. 3. CONSERVATION, PUBLIC ADMINISTRATION. A.B, Oberlin Col, 31; Ph.M, Wisconsin, 37; M.P.A, Syracuse, 50; Ph.D, Michigan, 56. Admin. analyst fed. orgn, U.S. Bur. Budget, 40-42, 45-47; dir. orgn. planning, War Prod. Bd, 42-44; asst. dir. prog. planning, U.S. Dept. Interior, 49-53; from lectr. to assoc. prof. CONSERV, MICHIGAN, 55-58, PROF, 58- Asn. Am. Geog; Soc. Pub. Admin. Planning and administration of natural resources. Publ: Muskingum watershed conservancy district: a study in local control, Law & Contemporary Prob; co-auth, Organizational arrangements for water development, Natural Resources J, 4/62. Address: 1520 Morton, Ann Arbor, Mich. 48104.

CRALLE, PROF. W(ALTER) O(DRO), b. Meeting Creek, Ky, Oct. 21, 91. SOCIOLOGY. A.B, Oklahoma, 15, A.M, 25; Ph.D, Minnesota, 34. Prof. sociol. & head dept. sociol. & econ, SOUTHWEST MO. STATE COL, 25-61, EMER. PROF. SOCIOL, 61- Sociol. Asn. The family; criminology; rural sociology. Address: 2267 S. Utica St, Tulsa, Okla. 74114.

CRAM, PROF. DOROTHY F(RANCIS), b. Mena, Ark, Feb. 23, 10. SOCIAL WORK. A.B, Oklahoma, 33; M.S.W, Washington (St. Louis), 42. Assoc. prof. SOC. WORK, OKLAHOMA, 38-66, EMER. ASSOC. PROF, 66- Dir. med. soc. work, War Relocation Authority, Idaho, 41-43. Asn. Soc. Workers. Address: Route 1, Box 96, Norman, Okla. 73069.

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CRAMER, DR. CURTIS A(LBERT), b. Lander, Wyo, Mar. 21, 39. ECONOMICS. B.S, Maryland, 60, fel, 60-63, Ph.D.(econ), 66. Asst. prof. econ, Houston, 63-65; vis. asst. prof, Washington Col, 66; indust. economist, U.S. Fed. Power Cmn, D.C, summer 66; ASST. PROF. ECON, WYOMING, 66- Consult, U.S. Fed. Power Cmn. & U.S. Bur. Pub. Roads, 66-67. AAAS; Econ. Asn; Acad. Polit. & Soc. Sci. Economic theory, growth theory; public utilities; fiscal theory. Publ: Interconnection and peak responsibility in the natural gas pipeline industry, Land Econ, 5/68. Address: Dept. of Economics, University of Wyoming, Laramie, Wyo. 82070.

CRAMER, PROF. D(ALE) L(OUIS), b. Dixon, Ill, June 25, 24; m. 46; c. 3. ECONOMICS. M.A, Bradley, 49; Earhart Found. fel, La. State, 54-55, Ph.D. (econ), 57. Asst. prof. ECON, Tex. West. Col, 55-58; assoc. prof, ALABAMA, 58-63, PROF, 63- U.S.A, 43-46. Econ. Asn. Economic development; economy of Latin America; development of economic thought. Publ: Co-auth, Economics: principles of income, prices and growth, Macmillan, 66, Workbook and study guide to accompany economics: principles of income, prices and growth, Macmillan, 66 & Variation of definitions of degrees of competition, Am. J. Econ. & Sociol. Address: Dept. of Economics, University of Alabama, University, Ala. 35486.

CRAMER, DR. EDISON H(ENRY), b. Mich, May 17, 95; m. 20; c. 2. ECONOMICS. A.B, M.A. & Ph.D, Michigan, 40. Prof. finance, sch. bus, Colorado, 27-47; exec. v.pres, Mercantile Bank & Trust Co, Boulder, Colo, 47-49; chief div. res. & statist, Fed. Deposit Ins. Corp, 49-64; ECON. ADV, AM. BANKERS ASN, WASH, D.C, 64- U.S.A, 17-19. Econ. Asn; Finance Asn; Statist. Asn. Money and banking. Address: Rutland Rd, Davidson, Md. 21035.

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CRAMPTON, HENRY EDWARD, b. New York, N.Y, Oct. 27, 06; m. 30; c. 3. ECONOMICS. A.B, Columbia, 28, B.S, 29, C.E, 30. Engr, N.Y. Tel. Co, 30-42; engr. oper. results, Am. Tel. & Tel. Co, 42-46; valuation & depreciation engr, Mich. Bell Tel. Co, 46-52, engr. & asst. v.pres, 52-57; gen. financial supvr, AM. TEL. & TEL. CO, 57-59, ENG. DIR. DEPRECIATION & VALUATION, 59- Mem, Governor's Cmt. Automation, Mich, 57. Econ. Asn; Statist. Asn; Soc. Prfnl. Eng; Inst. Elect. Eng. Principles and application of engineering economics; techniques and philosophy of depreciation; impact of price level changes on economics of the telephone business and national economy. Publ: Price level depreciation; Long range outlook for Michigan economy, Mich. Bus. Rev. Address: American Telephone & Telegraph Co, 195 Broadway, New York, N.Y. 10007.

CRANDALL, PROF. BURTON B(ENJAMIN), b. Rawlins, Wyo, Aug. 16, 06; m. 39; c. 4. ECONOMICS. A.B, California, 28; M.B.A, Harvard, 30; Ph.D. (econ), American Univ, 55. Assoc. prof. econ, Alfred, 30-36, treas. & bus. mgr, 36-46; assoc. prof. transportation & bus. admin, Syracuse, 46-62; chmn. econ-bus. admin. dept, Milton Col. 62-65; PROF. BUS. ADMIN, STATE UNIV. N.Y. AGR. & TECH. COL, ALFRED, 65- Vis. lectr, Wisconsin, 64. Res. & info. technician, Syracuse City Planning Cmn. & Housing Authority, 49-50; res. dir, Army Comptrollership Res. Prog, 52; reader gen. bus. exam. accreditation, Am. Soc. Traffic & Transportation, 62- Consult, bus. div, Bur. Census, 48; county & local planning bds, Allegany County, N.Y, 67- Econ. Asn; Mkt. Asn; Soc. Traffic & Transportation; Transportation Res. Forum. Motor transportation; traffic problems, especially truck. Publ: Growth of the intercity bus industry. Address: State University of New York Agricultural & Technical College at Alfred, Box 608, Alfred, N.Y. 14802.

CRANDALL, DR. JAMES E(DWARD), b. Hutchinson, Kans, Nov. 5, 30; m. 59; c. 1. PSYCHOLOGY. B.A, Colorado, 55, M.P.S, 56; U.S. Pub. Health Serv. fel, Oregon, 60, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, State Univ. N.Y. Col. Oswego, 63-64, ASSOC. PROF, 64-67; IDAHO, 67- Res. Found. State Univ, N.Y. faculty res. fel, 65. U.S.A, 50-53, Sgt. Psychol. Asn. Personality processes; motivation; cognition. Publ: Some relationships among sex, anxiety, and conservatism of judgment, J. Personality, 65; Familiarity, preference and expectancy arousal, J. Exp. Psychol, 67; Satiation of interest in words as a function of their familiarity, J. Verbal Learning & Verbal Behav, 67. Address: Dept. of Psychology, University of Idaho, Moscow, Idaho 83843.

CRANDALL, DR. ROBERT WARREN, b. Akron, Ohio, Feb. 28, 40; m. 66. ECONOMICS. A.B, Cincinnati, 62; M.A, Northwestern, 65, Ph.D.(econ), 68; Johnson res. fel, Brookings Inst, 65-66. ASST. PROF. ECON, MASS. INST. TECH, 66- Econ. Asn. Industrial organization and public policy. Publ:

Vertical integration in the U.S. automobile industry, J. Indust. Econ, 68. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

CRANE, PROF. BILL G(ENE), b. Bethany, La, Oct. 7, 26. POLITICAL SCIENCE, GOVERNMENT. B.A, N.Tex. State Col, 51, M.A, 53; fel. & Ph.D, Texas, 60. Instr. govt, Navarro Jr. Col, 53-55; Nat. Acad. Sci-Nat. Res. Coun. res. grant, 57-58; asst. prof. GOVT, ST. MARY'S (TEX), 58-65, PROF. 65-, Piper Prof. award, 65. U.S.A, 46-48, 51, Sgt. Intergovernmental relations; federalism; American politics. Publ: Co-auth, Urban politics in the Southwest, Inst. Pub. Admin, Arizona State Univ, 67. Address: Dept. of Government, St. Mary's University, San Antonio, Tex. 78228.

CRANE, DR. DIANA MARILYN (MRS. MICHEL HERVÉ), b. Toronto, Ont, Apr. 5, 33; U.S. citizen; m. 65. SOCIOLOGY. A.B, Radcliffe Col, 53; M.A, Columbia, 61, Pres. fel, 62-64, Ph.D.(sociol), 64. ASST. PROF. SOCIOL, Yale, 64-68; HOPKINS, 68- Sociol. Asn. Sociology of science and of religion. Publ: Scientists at major and minor universities: a study of productivity and recognition, Am. Sociol. Rev, 10/65. Address: Division of Behavioral Sciences, Johns Hopkins University, Baltimore, Md. 21218.

CRANE, PROF. (LAUREN) EDGAR, b. Hastings, Minn, Dec. 3, 17; m. 55; c. 3. MASS COMMUNICATIONS. B.A, Minnesota, 39; M.S, Iowa State, 46; Ford Found. fel. & Ph.D, Stanford, 61. Instr. journalism, Minnesota, 46-53; info. specialist, Am. Friends Serv. Cmt, Pa, 54-55; instr. journalism, Iowa, 55-56; lectr, North Carolina, 57-58; asst. res. prof, communication res, Mich. State, 58-61; assoc. prof. mkt. mgt, & dir. res. prog. mkt. communication, Notre Dame, 61-67; PROF. MKT, HOUSTON, 67- Reporter, Minneapolis Tribune, Minn, 46-53; Ford Found. fel. quant. res, Carnegie Inst. Tech, 64; California, Berkeley, 65. Mkt. Asn; Soc. Study Commun; Psychol. Asn; Sociol. Asn; Asn. Pub. Opinion Res; Asn. Ed. Journalism. Interactive effects of product, appeal and context upon attitudes toward advertising media; segmented media audiences; influence of personality and situation upon communicators' decisions; role conflict among communications gatekeepers; cross-cultural study of role expectations for businessmen in relation to national images. Publ: Marketing communications, Wiley, 65; co-auth, Program preferences: their implications for the educational broadcaster, AV Commun. Rev; auth, How product, appeal and program affect attitudes toward commercials, J. Advert. Res, 3/64. Address: Dept. of Marketing, University of Houston, Houston, Tex. 77004.

CRANE, DR. EDMUND H(AROLD), Econ, see 10th ed, Soc. & Behav. Vols.

CRANE, PROF. FREDERICK G, b. Rochester, N.Y, Aug. 17, 26; m. 52; c. 3. ECONOMICS. B.A, St. Lawrence, 51; M.A, Ohio State, 57, Murray D. Lincoln fel, 60-61, Ph.D.(econ), 61. Casualty underwriter, Aetna Casualty & Surety Co, 51-56; asst. instr. econ, Ohio State, 57-61; asst. prof. INS, DRAKE, 61-66, PROF, 66- Chartered Property & Casualty Underwriter prfnl. designation, 66. U.S.A, 45-46. State regulation of insurance rates. Publ: Automobile insurance rate regulation; Public control of automobile insurance rate adequacy and excessiveness, J. Ins, 9/63. Address: College of Business Administration, Drake University, Des Moines, Iowa 50311.

CRANE, PROF. HARRY W(OLVEN), Psychol, Sociol, see 10th ed, Soc. & Behav. Vols, deceased 64.

CRANE, PROF. JOHN B, b. Chicago, Ill, July 20, 03; m. 38; c. 2. ECONOMICS. A.B, Northwestern, 24; A.M, Harvard, 26, Sheldon fel, 30, Ph.D, 32. Instr. & tutor econ, Harvard, 27-37; asst. prof, Northwestern, 37-42; prof. econ. & hist, Earlham Col, 59-60; prof. econ, Kansas State, 60-61; prof. econ. & v.pres, Ind. Tech. Col, 61-62; MUSSER PROF. ECON, CHMN. DEPT. ECON. & BUS. ADMIN. & DIV. SOC. SCI, IOWA WESLEYAN COL, 62- Dir, Cong. Air Mail Invest, 32-33; Soc. Sci. Res. fel, England, 34-35; prin. economist & chief transportation div, U.S. Dept. Commerce, 43-44; lectr, Hopkins, 44-45; dir. econ. & mkt. res, Martin Co, Md, 44-45; econ. adv. & dep. chief econ. policy sect, Am. Mil. Govt, Berlin, 46-47; dir, Senate Cmt. Nat. Econ. Resources, 47-50. Consult, Northwest & West. Airlines, 38-39. Econ. Asn; Mkt. Asn; Acad. Polit. & Soc. Sci; Nat. Planning Asn. Economic history; economic characteristics of air, highway and water transport affecting appropriateness of government regulations and controls; theories of economic integration, especially allocation of economic resources on the European common market; development of the American aviation industry prior to World War 1. Publ: Analysis of air cargo potentials by countries and continents; Western Europe today; co-auth, The story of the Soviet Union, McCormick-Mathers, 68. Address: Dept. of Economics & Business Administration, Iowa Wesleyan College, Mt. Pleasant, Iowa 52641.

CRANE, DR. JULIA G(ORHAM), b. Mt. Kisco, N.Y, Nov. 8, 25. ANTHROPOLOGY. B.S, Columbia, 59, Nat. Insts. Health fel, 61-66, Ph.D.(anthrop), 66. Res. asst. anthrop. to Dr. Margaret Mead, 56-61, at Columbia, 59-61; ASST. PROF. ANTHROP, NORTH CAROLINA, CHAPEL HILL, 67- Fel. Anthrop. Asn. Cultural anthropology; Caribbean studies; social organization. Publ: Concomitants of selective emigration on a Caribbean island, Univ. Microfilms, 66. Address: Dept. of Anthropology, University of North Carolina, Chapel Hill, N.C. 27514.

CRANE, ROBERT DICKSON, b. Cambridge, Mass, Mar. 26, 29; m. 51; c. 3. POLITICAL SCIENCE. B.A, Northwestern, 55; LL.B, Harvard, 59. Res. principal, Center Strategic Studies, 63-66; MEM. STAFF POLIT. SCI, HUDSON INST, 66- Consult, U.S. Air Force Syst. Command; systs. div, Bendix Corp; cmt. aeronaut. & space sci, U.S. Senate. Inst. Aeronaut. & Astronaut. Address: Morningview Dr, Yorktown Heights, N.Y. 10598.

CRANE, DR. ROBERT T(REAT), Govt, see 9th ed, Soc. & Behav. Vols, deceased 62.

CRANE, PROF. RODERIC B(AIRD), b. Omaha, Nebr, Dec. 24, 98. ECONOMICS. M.E, Cornell, 22; Harvard, 22-23; M.B.A, Chicago, 41; hon. LL.D, Omaha, 64. Prof. ECON. & head dept, OMAHA, 44-64, EMER. PROF, 64- Econ. Asn. Address: Florence Station, Box 55, Omaha, Nebr. 68112.

CRANE, DR. VIRGINIA G, Contemporary Soc. & Intellectual Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CRANE, PROF. WILDER WILLARD, JR, b. Chippewa Falls, Wis, Apr. 7, 28. POLITICAL SCIENCE. B.A, Carleton Col, 50; A.M, Harvard, 51; Fulbright scholar, Vienna, 52-53; Ph.D.(polit. sci), Wisconsin, 59. Supvr, Chippewa County Bd. Supvrs, Wis, 53-56; assemblyman, State Legis, Wis, 57-58; asst. prof. POLIT. SCI, Vanderbilt, 59-62; WISCONSIN, MILWAUKEE, 62-63, assoc. prof, 63-67; PROF, 67-, DEPT. CHMN, 65- Jr. exec, Crane Lumber Co, Wis, 53-55. Polit. Sci. Asn.(Owen award, 60). Comparative European government; state government. Publ: Legislature of Lower Austria; co-auth, Government and politics, Random, 66 & State legislative systems, Prentice-Hall, 68. Address: Dept. of Political Science, University of Wisconsin, Milwaukee, Wis. 53201.

CRANE, WILLIAM A(RTHUR), Econ, Bus. Mgt, see 10th ed, Soc. & Behav. Vols.

CRANE, DR. WILLIAM JOSEPH, b. Warwick, R.I, Sept. 8, 19; m. 41; c. 2. PSYCHOLOGY, SOCIOLOGY. B.A, Wisconsin, 42; M.A, Colorado, 50; Ph.D, Yale, 52. Student counsr, Cent. State Col.(Wis), 46-49; assoc. prof. ed. & psychol, Eastern Illinois, 52-56; assoc. dean of men, Eastern Michigan, 56-61; ASSOC. PROF. ED. PSYCHOL. & GUID, EASTERN ILLINOIS, 61- Voc. consult, soc. security div, U.S. Dept. Health, Ed. & Welfare, 63-Med.C, 42-46, Sgt. Psychol. Asn; Personnel & Guid. Asn; Higher Ed. Asn. Small group processes; leadership; classroom learning. Publ: Sociometry and the classroom, Councilor; Discussing Michigan's counselor approval plan, Mich. Ed. J; Administrative practices in men's housing, Personnel & Guid. J. Address: Dept. of Educational Psychology & Guidance, Eastern Illinois University, Charleston, Ill. 61920.

CRANFILL, PROF. E(LMA) B(EATTY), Sociol, see 10th ed, Soc. & Behav. Vols.

CRANFILL, DR. SAMUEL E(LLIOTT), b. Anderson Co, Ky, Sept. 18, 96; m. 20; c. 2. ECONOMICS. B.A, Georgetown Col, 20; M.A, Michigan, 25; fel, La. State, 38-39, Ph.D.(econ), 41. Prof. econ, Bowling Green Col. Commerce, 25-35; econ. & sociol, Miss. Col, 35-45; econ, Baylor, 45-48; econ. & bus. admin, Georgetown Col, 48-65; RETIRED. U.S.N, 18-22. Acad. Polit. & Soc. Sci; Inst. Mgt. Economic theory; business management; finance. Publ: Fundamentals of business. Address: 1977 N. Conference Dr, Boca Raton, Fla. 33432.

CRANFORD, DR. PETER G(ORDON), b. New York, N.Y, Nov. 9, 08. PSYCHOLOGY. A.B, Florida, 32, M.A, 33; Ph.D, Tex, 49. Consult, News Serv, Ga, 37-38; dir. res, State Ed. Asn, 38-40; psychol. testing, 40-42; capt, U.S. Pub. Health Serv, 43-49; practicing psychologist, 49-51; chief clin. psychologist, State Hosp, Ga, 51-52; private practice, 52- Consult, Lynndale Sch. for Retarded Children, 53-56; Tuttle-Newton Home, 54-56; Juvenile Court Adv. Coun, 55-56; Juvenile Court, 56-61. Mem, Am. Asn. State Psychol. Bds, 64-66; Ga. State Bd. Psychol. Exam, 64-67. AAAS; Psychol. Asn. Psychological and psychiatric history; lay psychotherapy. Publ: Psychology applied to golf; Disciplining your child, Prentice-Hall, 63; The worried mind, United Features Syndicate, 68. Address: 2108½ Walton Way, Augusta, Ga. 30904.

CRANMER, PROF. H(ORACE) JEROME, b. Morristown, N.J, June 2, 20; m. 47; c. 4. ECONOMICS. A.B, Drew, 47; A.M, Columbia, 49, Soc. Sci. Res. Coun. grant, 49, Ph.D.(econ), 55. Instr. ECON, DREW, 49-52, asst. prof, 52-56, assoc. prof, 56-59, PROF, 59-, CHMN. DEPT, 60- Economist, Am. Bankers Asn, 61-; dir. col. & univ. prog, Joint Coun. Econ. Ed, 67- Consult, Bankers Trust Co, 57-61; Am. Car & Foundry Indust, Inc, 59-61; Gen. Time Corp, 60-61; N.J. Bell Tel. Co, 65-; Irving Trust Co, N.Y, 65-66. U.S.A, 43-46, Capt. Econ. Asn; Statist. Asn; Finance Asn. American economic history; economic research and business forecasting. Publ: New Jersey in the automobile age, Van Nostrand, 66; The structure of N.J. banking, Cmnr. Banking, N.J, 67. Address: Dept. of Economics, Drew University, Madison, N.J. 07940.

CRANNELL, PROF. CLARKE W(INSLOW), Psychol, see 10th ed, Soc. & Behav. Vols.

CRARY, PROF. DOUGLAS D(UNHAM), b. Warren, Pa, Sept. 1, 10; m. 34; c. 4. GEOGRAPHY. A.B, Michigan, 33, M.A, 34, Ph.D, 47; Harvard, 38-41. Instr. GEOG, MICHIGAN, 43-49, asst. prof, 49-55, assoc. prof, 55-63, PROF, 63-U.S. Dept. State lectr, 60-61. Consult. res. & develop. bd, U.S. Dept. Defense, 49-51. Mem. cmt. Near East, Soc. Sci. Res. Coun, 51-53. Asn. Am. Geog; Am. Geog. Soc; African Studies Asn; Mid. East Inst. Geography of the Near East and Africa; applied urban geography; land use, settlement and man-land relationships in the Far East, Near East and Africa. Publ: Irrigation and land use in Zeiniya Bahari, Upper Egypt & Recent agricultural developments in Saudi Arabia, Geog. Rev; A geographer looks at the landscape, Landscape. Address: Dept. of Geography, University of Michigan, Ann Arbor, Mich. 48104.

CRASILNECK, DR. HAROLD B(ERNARD), b. San Antonio, Tex, Apr. 4, 21; m. 59; c. 5. CLINICAL PSYCHOLOGY. B.A, Trinity (Tex), 45; M.A, Texas, 48; Ph.D.(clin. psychol), Houston, 54. Asst. prof. psychol. & sociol, Trinity (Tex), 48-50; instr. psychol, Houston, 50-52; lectr. Southern Methodist, 52-53; asst. prof. psychiat, southwest. med. sch, Texas, 54-60; psychologist, Dallas Neurol. Clin, 60-62; private practice, 62- U.S.N, 42-45. Psychol. Asn; Soc. Clin. & Exp. Hypnosis (pres, 63-65). Medical hypnosis; projective testing; experimental psychology. Publ: Hypnosis and psychology; co-auth, Hypnoanesthesia, J. Nursing; Further studies in suppression amblyopia, J. Ophthal. Address: 5635 Yolanda Circle, Dallas, Tex. 75229.

CRAVEN, DR. ETHEL CASE, b. Brooklyn, N.Y, Sept. 23, 12; m. 53. PSYCHOLOGY. B.A, Columbia, 34, M.A, 46, Ph.D, 58. Voc. counsr, Polytech. Inst. Brooklyn, 46-58, COUNSELING PSYCHOLOGIST, 58-62; Vet. Admin. Regional Off, Brooklyn, 62-65; VET. ADMIN. HOSP, BROOKLYN, 65- Psychol. Asn; Personnel & Guid. Asn. Psycho-social origins and development

of values and interests. Publ: Use of interest inventories in counseling; Tests and examinations used for promoting learning. Address: 185 Hall St, Apt. 613, Brooklyn, N.Y. 11205.

CRAVEN, DR. JOHN V, b. Portland, Maine, Jan. 23, 21; m. 49; c. 2. ECONOMICS. A.B, Bowdoin Col, 43; A.M, Colorado, 47; Ph.D, Syracuse, 57. Instr. econ, Ohio, 47-49; economist, Fed. Trade Cmn, 51-53; instr. ECON, Colgate, 54-56; asst. prof, MIDDLEBURY COL, 56-64, ASSOC. PROF, 64- Ford Found. faculty res. fel, Harvard, summer 64. U.S.A.A.F, 43-45. Econ. Asn. Industrial organization; public control of industry, competition and monopoly; labor economics; medical economics; the Belgian case. Publ: A strike of self-employed professionals: Belgian doctors in 1964, Indust. & Labor Rels. Rev, fall 67. Address: Dept. of Economics, Middlebury College, Middlebury, Vt. 05753.

CRAVENS, DR. H(ENDERSON) L(AMAR), JR, b. Big Lake, Tex, May 27, 29; m. 54. POLITICAL SCIENCE, EDUCATIONAL PSYCHOLOGY. B.A, North Texas State, 50, M.Ed, 51; Ed.D, Colo. State Col, 61. PROF. SOC. SCI, HOWARD PAYNE COL, 56- Address: 1901 Austin Ave, Brownwood, Tex. 76801.

CRAVENS, PROF. M(ETELLUS) E(UGENE), b. Livia, Ky, Oct. 5, 13; m. 39; c. 3. AGRICULTURAL ECONOMICS. B.S, Kentucky, 35; M.S, Cornell, 37, Ph.D, 41. Asst. prof. AGR. ECON, Agr. & Mech. Col, Tex, 40-41; exten. specialist, Cornell, 46; asst. prof, Mich. State Col, 46-52; assoc. prof, OHIO STATE, 53-58, PROF, 58- Consult, Food Dept, Govt. E.Pakistan, 64, 67. U.S.A, 42-46, Capt. Agr. Econ. Asn; Mkt. Asn. Agricultural marketing. Publ: Co-auth, Grower-processor agreements in the sweet corn for processing industry & Retail markets as a means of direct sales to consumers, 6/62, Bull. Ohio Agr. Exp. Sta; Retail margins on tomatoes, Ohio Agr. Res. & Develop. Center, 2/66. Address: 2305 Eastcleft Dr, Columbus, Ohio 43221.

CRAVENS, DR. RICHARD B(ALDWIN), b. Excelsior Springs, Mo, Jan. 11, 28; m. 54; c. 2. CLINICAL PSYCHOLOGY. B.A, Willamette, 49; M.A, Ohio State, 51, Ph.D, 54. Intern psychol, Harding Sanitarium, 51-52; asst. instr, Ohio State, 52-53; clin. psychologist, Letterman Army Hosp, 54-57; instr. psychol, Hawaii, 57-59; consult. clin. psychol, MO. DIV. MENT. DISEASES, 59-64, prfnl. asst. to dir, 64-66, chief community ment. health serv, 66-67, ASST. DIR. COMMUNITY MENT. HEALTH, 67- Res. assoc, Stanford, 56-57; psychol. servs. adminstr, State Dept. Health, Hawaii, 57-59; private practice, 58-; vis. lectr, Missouri, 66- Consult, Robert S. Craig Assocs, Hawaii, 58-59; Greater Kansas City Ment. Health Found, 60. U.S.N, 46; U.S.A, 53-57, Res, 57-, 1st Lt. Psychol. Asn. Community mental health education, programs and legislation. Publ: Co-auth, Preschool IQ's after twenty-five years, J. Ed. Psychol, 58 & Intensive psychiatric treatment hospitals and Missouri's state mental hospitals, Mo. Med, 9/62; auth, Impact of recent federal legislation: community mental health services, Am. J. Pub. Health, 7/67. Address: Missouri Division of Mental Diseases, 722 Jefferson St, Jefferson City, Mo. 65101.

CRAWFORD, DR. ALBERT B(EECHER), b. Viborg, Finland, June 10, 91; m. 38. PSYCHOLOGY. A.B, Yale, 13, A.M, 25, Ph.D.(psychol), 28. Asst. to secy, YALE, 19-20, dir. student appointment bur, 21-59, dept. personnel study, 27-59, EMER. DIR. STUDENT APPOINTMENT BUR, 59- Ed. & dir, Men of Yale Series, 62- Yale medal, 59. U.S.N, 17-19. Fel. Psychol. Asn. Educational psychology; tests and measurements; college student personnel educational and occupational guidance. Publ: The choice of an occupation, 29, rev, 58; ed, Football men of Yale, 3 vols, 62-63 & Phi Beta Kappa men of Yale, 68, Yale. Address: 319 Winthrop Ave, New Haven, Conn. 06511.

CRAWFORD, DR. ARTHUR WHIPPLE, Econ, see 10th ed, Soc. & Behav. Vols.

CRAWFORD, BOYD, b. Washington, D.C, Apr. 13, 06; m. 27; c. 1. POLITICAL SCIENCE. Secy. to mem. of Cong, 32-36; chief of staff, U.S. Constitution Sesquicentennial Cmn, 36-39; STAFF ADMINSTR. & CLERK, CMT. FOR. AFFAIRS, U.S. HOUSE OF REP, 39- Mem. U.S. del, UN Conf. Int. Orgn, Calif, 45; UN Gen. Assembly, London, 46, N.Y, 46, 49, 50, 53, Paris, 51; Coun. Meeting, UNRRA, 46, secy, UN Cmt. on UNRRA, 46; staff mem, Spec. Congressional Study Mission, Alaska, 47, Europe, 51, Far East, 54, Mediterranean, 56, Guatemala, 57, Colombia, Japan, Thailand & Vietnam, 65; congressional del, NATO Parliamentary Conf, Paris, 60-65, Bermuda, 61; Congressional del, Consultative Assembly, Strasbourg, 65-67; U.S. del, Commonwealth Parliamentary Conf, Wellington, N.Z, 65; U.S. del, Brit-Am. Parliamentary Conf, Burmuda, 61-66. Polit. Sci. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci. International relations; American government; international organizations. Publ: Report of U.S. Constitution Sesquicentennial Commission. Address: 7401 Idylwood Rd, Falls Church, Va. 22043.

CRAWFORD, DR. CHARLES BATES, b. High Prairie, Alta, Apr. 5, 37; m. 61; c. 1. PSYCHOLOGY. B.A, Alberta, 61, M.S.C, 64; Ph.D.(psychol), McGill, 66. ASST. PROF. PSYCHOL, SIMON FRASER UNIV, 66- AAAS; Statist. Asn; Psychomet. Soc; Can. Psychol. Asn. Factor analysis; multivariate experimental psychology; nature and development of intelligence. Address: Dept. of Psychology, Simon Fraser University, Burnaby 2, B.C, Can.

CRAWFORD, PROF. C(HARLES) MERLE, b. Kirksville, Mo, Oct. 5, 24; m. 48; c. 4. MARKETING. B.S, Illinois, Urbana, 48, M.S, 49, Ph.D.(bus), 53. Instr. mkt, Florida, 49-51, asst. prof, 53-55; res. asst, Illinois, Urbana, 51-53; proj. mgr. mkt. res, Mead Johnson & Co, Ind, 55, dir, 55-62, prod. mgt, 62-65; assoc. prof. MKT, MICHIGAN, 65-66, PROF, 66- U.S.A, 43-45. Mkt. Asn. Strategy; retailing; new product development. Publ: Sales forecasting, methods of selected firms, Univ. Illinois, 53; The trajectory theory of goal setting, J. Mkt. Res, 66; Business bigotry, Mich. Bus. Rev, 66. Address: Dept. of Marketing, Graduate School of Business Administration, University of Michigan, Ann Arbor, Mich. 48104.

CRAWFORD, DR. CHARLES O, b. West Chester, Pa, Sept. 19, 34; m. 60; c. 2. SOCIOLOGY, RURAL SOCIOLOGY. B.S, Pa. State, 56, M.S, 58; Ph.D.(rural sociol), Cornell, 63. Instr. rural sociol, Cornell, 58-59; asst. prof, Connecticut, 63-65; pub. health behav. scientist, PA. DEPT. HEALTH, 65-66, DIR. DIV. BEHAV. SCI, 66- U.S.A.R, 56-62. Sociol. Asn; Pub. Health Asn; Rural Sociol. Soc. Medical sociology including the application of scientific research findings to solution of public health problems; family sociology and community analysis. Publ: Family factors in migration plans of youth, Cornell Univ. Agr. Exp. Sta, 12/64; Family attachment, family support for migration and migration plans of young people, Rural Sociol, 9/66. Address: Division of Behavioral Science, Pennsylvania Dept. of Health, Box 90, Harrisburg, Pa. 17120.

CRAWFORD, ELIZABETH T, b. Stockholm, Sweden, Feb. 19, 37; m. 62; c. 1. SOCIOLOGY, POLITICAL SCIENCE. Fil. Kand, Stockholm, 58, Fil. Lic, 62; cert. polit. sci, Paris, 60. Res. analyst defense, Hudson Inst, N.Y, 62-64; SOCIOL, BUR. SOC. SCI. RES, 64-65, RES. ASSOC, 65- Int. Studies Asn. Political and military sociology; sociology of science and social science; organizational theory; research methodology. Publ: Organization and values in social science research on international and military policy, Background, 8/66; Foreign area research: a background statement, Am. Behav. Scientist, 6/67. Address: Bureau of Social Science Research, 1200 17th St. N.W, Washington, D.C. 20036.

CRAWFORD, DR. F(ARNAM) T(HEODORE), b. Billings, Mont, July 10, 25. EXPERIMENTAL PSYCHOLOGY. B.A, Montana, 51; M.A, Texas, 53, Ph.D.(psychol), 56. Instr. PSYCHOL, Emory, 56; asst. prof, Ga. State Col, 56-59; FLA. STATE, 59-67, ASSOC. PROF, 67- Med.C, U.S.A, 43-46. Psychol. Asn; Psychonomic Soc. Animal behavior; learning theory; physiological psychology. Address: Dept. of Psychology, Florida State University, Tallahassee, Fla. 32306.

CRAWFORD, PROF. F(INLA) G(OFF), Pub. Admin, see 10th ed, Soc. & Behav. Vols.

CRAWFORD, FRED G(EORGE), Pub. Admin, see 10th ed, Soc. & Behav. Vols.

CRAWFORD, DR. FRED R(OBERTS), b. San Antonio, Tex, Mar. 16, 24; m. 51; c. 2. SOCIOLOGY. B.A, Trinity (Tex), 48; M.S, Agr. & Mech. Col, Tex, 50; Ph.D, Texas, 57. Soc. Sci. Res. Coun. assoc. sociol, Texas, 53-55, Hogg Found. Ment. Health, 58-60; asst. prof, Tex. Tech. Col, 55-57; assoc. prof. sociol. & dean student life, Trinity (Tex), 57-58; res. consult, div. ment. health, State Dept. Health, Tex, 60-63; dir. res, Timberlawn Found, 63; res. dir. ment. health, Tex. Ment. Health Planning Cmt, 63-65; dir. opers. res, Tex. Dept. Ment. Health & Ment. Retardation, 65-66; PROF. SOCIOL, EMORY, 66-, DIR. RES, CENTER RES. SOC. CHANGE, 66- Consult, Nat. Inst. Ment. Health, 61-66; South. Regional Ed. Bd, 62-67; voc. rehab. div, Ga. Dept. Ed, 66-67. Prin. investr, Off. Econ-War on Poverty Prog, Atlanta, Ga. U.S.A.F, 42-45, 51-53. Fel. Sociol. Asn. Medical sociology; social psychiatry; communities. Publ: Variations between Negroes and whites in concepts of mental illness and its treatment; Epidemiology of mental illness in Texas; The forgotten egg: a study of Latin American emotionally disturbed children. Address: 2507 Cravey Dr. N.E, Atlanta, Ga. 30329.

CRAWFORD, PROF. FRED ROY, b. Winters, Tex, Apr. 3, 16; m. 40; c. 2. PSYCHOLOGY. B.S, Santa Barbara State Col, 41; M.S, Southern California, 45, Ed.D, 47. Exam, Knox Col, 47-48; assoc. prof. ed, Arizona State, 48-52, prof, 52-56, dir. grad. studies, 49-54; private practice indust. psychol, 56-59; asst. prof. PSYCHOL, Oregon State, 59-66; PROF, GRAD. SCH, CALIF. STATE POLYTECH. COL, 67- Publ: Co-auth, Thesis and project manual & Human factors in engineering. Address: Dept. of Psychology, Graduate School, California State Polytechnic College, San Luis Obispo, Calif. 93401.

CRAWFORD, PROF. JAMES F(RANKLIN), b. Iowa, May 16, 20; m. 49; c. 1. ECONOMICS. B.A, Peru State Col, 41; M.A, Colorado, 52; Ph.D.(econ), Wisconsin, 56. Instr. indust. rels, Wisconsin, 55-56; PROF ECON, GA. STATE COL, 56-, CHMN. DEPT, 62- U.S.N.R, 42-46, Lt.(jg). Econ. Asn; Indust. Rels. Res. Asn. Industrial relations; labor-management relation; wages. Address: Dept. of Economics, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

CRAWFORD, DR. JOHN E(DMUND), b. Pittsburgh, Pa, Jan. 21, 04; m. 36. CLINICAL PSYCHOLOGY. B.S, Carnegie Inst. Tech, 32; B.S, Pittsburgh, 32; M.A, 34, Ed.D, 40; Columbia, 42. Training specialist, John A. Roebling's Sons Co, N.J, 43-46; prof. psychol. & dir. guid, Wagner Mem. Col, 47-51; clin. psychologist & supvr. spec. servs, Lawrence County Schs, 54-62; prof. & dir. res. Millersville State Col, 62-63; CLIN. PSYCHOLOGIST, East. State Sch. & Hosp, Pa, 63-67; ALLEGHENY COUNTY SCHS, 67- Lectr, grad. div, N.Y. Univ, 46. Mem. Gov. cmt. for handicapped children & revised sci. curricula, Pa, 59- Private practice, 50- Fel. Psychol. Asn. Clinical evaluation and guidance of school age children; practical psychology and mental health for young adults; improvement of clinical diagnostic techniques; screening test for young children with possible cerebral damage. Publ: Crawford small parts dexterity test; Children with subtle perceptual-motor difficulties, Stanwix, 67; Being the real father now that your teenager will need, Fortress, 68. Address: Lebanon House, Apt. 601, 520 Washington Rd, Pittsburgh, Pa. 15228.

CRAWFORD, PROF. K(ENNETH) GRANT, b. Great Village, N.S, May 27, 04. GOVERNMENT. B.A, Western Ontario, 24, M.A, 26. Dep. city clerk, London, Can, 26-34, city clerk, 34-44; asst. prof. LOCAL GOVT, QUEEN'S (ONT), 44-47, assoc. prof, 47-53, PROF, 53-, DIR. INST. LOCAL GOVT, 44- Dep. minister, Ont. Dept. Munic. Affairs, 56-58. Can. Econ. Asn; Inst. Pub. Admin. Can. Address: Institute of Local Government, Queen's University, Kingston, Ont, Can.

CRAWFORD, DR. MARY M(AZEPPA), b. Mitchell, Ind. ECONOMICS. A.B, Wellesley Col, 22; A.M, Columbia, 30, Ph.D, 42. Instr. ECON, INDIANA, 36-42, asst. prof, 42-50, ASSOC. PROF, 50- Econ. Asn. Student folkways and spending at Indiana University; economic theory. Address: Dept. of Economics, Indiana University, Bloomington, Ind. 47401.

CRAWFORD, DR. MEREDITH P(ULLEN), b. Sweet Briar, Va, Oct. 13, 10; m. 36; c. 3. PSYCHOLOGY. A.B, Vanderbilt, 31; A.M, Columbia, 32, fel,

33-34, Ph.D.(psychol), 35. Asst, primate biol. labs, Yale, 34-39; instr. psychol, Barnard Col, Columbia, 39-40; asst. prof, Vanderbilt, 40-45, prof, 45-51, dean jr. col, 46-49, instr, 49-51, col, 51; DIR. HUMRRO, GEORGE WASHINGTON, 51- U.S.A.A.F, 42-46. Fel. AAAS; fel. Psychol. Asn.(treas, 58-67). Experimental, military and industrial psychology. Publ: Cooperative solving of problems by young chimpanzees, Psychol. Monogr; Psychological research on operational training in the continental air forces, U.S. Govt; Concepts of training, In: Psychological principles in system development. Address: HumRRO, 300 N. Washington St, Alexandria, Va. 22314.

CRAWFORD, DR. PAUL LEONIDAS, b. Olive Hill, Ky, Nov. 13, 21; m. 44; c. 3. PSYCHOLOGY. A.B. & M.A, Ohio, 53, Ph.D.(clin. counseling), 67. Mem. staff personnel safety training, Ohio Power Co, 53-62, ASST. PROF. PSYCHOL, OHIO, 62-, lectr, 58-62. Ed. surveyor, Wheelerburg High Sch, Ohio, 54-57; asst, lab. psycho-path, Portsmouth Receiving Hosp, 56-66. Consult, Psychiat. Correctional Institute, Chillicothe, Ohio, 66- Abstr, Psychol. Abstracts, 60- U.S.A.A.F, 42-46, Sgt. Psychol. Asn. Accident prevention and proneness; diagnostic classification of mentally ill patients on basis of objective measures; industrial psychology; psychological measurement. Publ: Hazard exposure differentiation necessary in identification of the accident-prone employee, J. Appl. Psychol, 60; Comparison of two attitude scaling methods, Psychol. Reports, 65; co-auth, Differentiating the psychopath and psychoneurotic with the LAIS, J. Consult, Psychol, 66. Address: Dept. of Psychology, Ohio University, Athens, Ohio 45701.

CRAWFORD, R(OBERT) W(ALTON), b. Cleveland, Ohio, Apr. 8, 15. ECONOMICS, STATISTICS. B.A, Amherst Col, 37; M.B.A, Harvard, 39. Mem. staff, sales, tech. serv. & prod. develop, Monsanto Chem. Co, 39-47, sales res. mgr, 47-51, bus. res. mgr, 51-58, develop. assoc, 58-62; MEM. STAFF, MKT. DEVELOP. DEPT, ELASTOMER CHEM. DEPT, E.I. DU PONT DE NEMOURS & CO, 62- Opers. Res. Soc; Econmet. Soc; Soc. Adv. Mgt; Chem. Soc; Mkt. Asn; Chem. Mkt. Res. Asn. Forecasting economy; forecasting the specific products; operations research and computers. Publ: Operations research and its role in business decisions; Unsolved problems in distribution; co-auth, Sealants for metal castings for varying degrees of porosity. Address: 222 Alders Dr, Wilmington, Del. 19803.

CRAWFORD, PROF. W(ILLIAM) REX, b. Beaver, Pa, May 13, 98. SOCIOLOGY. A.B, Pennsylvania, 19, A.M, 22, Ph.D, 26. Instr. Eng, PENNSYLVANIA, 19-20, Romanics, 20-22, SOCIOL, 22-27, asst. prof, 27-35, chmn. dept, 34-40, 42, assoc. prof, 35-39, prof, 39-64, EMER. PROF, 64- Soc. Sci. Res. Coun. res. fel, 33-34; exchange prof, Chile, 41; cultural attache, Brazil, 43-45; Fulbright lectr, Portugal, 63-64. Dir, Salzburg Seminar Am. Studies, 53-54; Inst. Humanistic Studies Execs, 54-60. Social theory; Latin America; Soviet Union. Publ: Critique of the philosophy of Remy de Gourmont; Century of Latin American thought; Panorama da cultura Norte-Americana. Address: Dept. of Sociology, University of Pennsylvania, Philadelphia, Pa. 19104.

CRAWLEY, PROF. S(UMNER) L(EE), b. Hebbardsville, Ky, June 17, 01; m. 26; c. 1. PSYCHOLOGY. A.B, Indiana, 22; A.M, Columbia, 23, fel, 25-26, Ph.D.(psychol), 26. Asst. psychol, Indiana, 20-22; asst. prof. & chmn. dept, Occidental Col, 23-25; Indiana, 26-29; assoc. prof, Cleveland Col, Western Reserve, 29-36, prof, 36-39; prof. ed. psychol. & dir. dept. student personnel, Colo. State Col. Ed, 39-47; assoc. dean students, City Col, 47-49; PROF. PSYCHOL, UTAH, 49-, head dept, 49-63. Fel. Psychol. Asn. Social attitudes and beliefs; study methods; history and systems. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

CRAWSHAW, DR. MARSHALL RICHARD, b. Minneapolis, Minn, May 10, 12; m. 41; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, California, Los Angeles, 34, M.S, 37, Ed.D.(ed. psychol), 50. Instr, Los Angeles City Schs, 37-48, coordinator driver ed, 49-52; instr. methods pub. safety, exten, California, Los Angeles, 50-60; dir. skills center learning lab, East Los Angeles City Col, 60-61; res. asst. simulation, inst. transportation, California, Los Angeles, 61-62; dir. res. & develop. ed. equip, Evans Industs, 62-66; DIR. CURRICULUM TRAINING, ECON. & YOUTH OPPORTUNITIES LOS ANGELES, 66- Summer instr, Southern California, 50-58. Consult, various orgn. & co, 52- Mem. simulation cmt. driver ed. res, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 63- U.S.A.A.F, 42-45, 1st Lt. Psychol. Asn; Human factors Soc. Driving behavior as measured by instrumentation incorporated in driving simulation laboratories and training. Publ: Course of study in driver education, Los Angeles City Schs, 50; California guide for driver education, Calif. State Dept. Ed, 52. Address: 1080 Busch Gardens Court, Pasadena, Calif. 91105.

CRAYCRAFT, PROF. JOSEPH L(EE), b. Muncie, Ind, Apr. 2, 32; m. 55; c. 5. ECONOMICS. B.S, Wisconsin, Milwaukee, 54; A.M, Chicago, 57. Asst, center econ. res, Chicago, 45-57; instr. ECON, Villa Madonna Col, 57-60, asst. prof, 60-61; instr, col. bus. admin, CINCINNATI, 61-63, asst. prof, 63-65, ASSOC. PROF, 65-67, UNIV, 67- Vis. lectr, Air Force Logistics Sch, 58; vis. instr, Cincinnati, 59-60, summers, res. assoc, 60, vis. asst. prof, 62; bus-indust. summer fel, Found. Econ. Ed, 64 & 66. U.S.A, 54-57, Res, 57- Econ. Asn. Economic history; monetary theory; price theory; managerial economics; public policy. Publ: Co-auth, College business mathematics. Address: Dept. of Economics, University of Cincinnati, Cincinnati, Ohio 45221.

CREAGAN, DR. JAMES F(RANCIS), b. Elyria, Ohio, Dec. 28, 40; m. 66. POLITICAL SCIENCE. A.B, Notre Dame, 62; Ph.D.(for. affairs), Virginia, 65; For. Serv. Inst, 66-67; Harvard, 67. Asst. prof. govt, St. Mary's (Tex), 65-66; for. serv. officer, U.S. DEPT. STATE, 66-67, ASST. ATTACHÉ, V.CONSUL & SECOND SECY, U.S. EMBASSY, MEX, 67-, AGENCY INT. DEVELOP. LABOR OFFICER, 67- Consult, trade union prog, Harvard, 67. Polit. Sci. Asn; Soc. Int. Develop; Soc. Int. Law. Latin American political systems; United States foreign policy; international organizations; role of labor movements in politics and economics. Publ: Public law 78: a tangle of domestic and international relations, J. Inter-Am. Studies, 10/65. Address: Foreign Service Lounge, U.S. Dept. of State, Washington, D.C. 20521.

CREAGER, DR. JOHN A(LDEN), b. New Brunswick, N.J, Mar. 20, 22; m. 52; c. 3. PSYCHOLOGY. B.S, Rutgers, 43; M.S, Purdue, 50, Ph.D.(psychol), 52. Chemist, Naval Res. Lab, 43-45; res. psychologist, U.S. Air Force Personnel & Training Res. Center, 52-60; off. sci. personnel, Nat. Acad. Sci, 60-66; RES. ASSOC. ED. RES, AM. COUN. ED, 66- AAAS; Psychol. Asn; Ed. Res. Asn; Psychomet. Soc; Personnel & Guid. Asn. Psychometrics; multivariate analysis; evaluation in higher education. Publ: Study of graduate fellowship applicants in terms of Ph.D. attainment; co-auth, A. program of longitudinal research in higher education system, Am. Coun. Ed. Reports, fall 66; auth, The use of publication citations in educational research, J. Ed. Measurements, fall 66. Address: 1101 N. Potomac St, Arlington, Va. 22205.

CRECELIUS, DR. DANIEL, Mod. Mid. East. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CRECINE, DR. JOHN PATRICK, b. Detroit, Mich, Aug. 22, 39. ORGANIZATIONAL BEHAVIOR, PUBLIC POLICY. B.S, Carnegie Inst. Tech, 61, M.S, 63, Ph.D.(org. & polit. behav), 66; Stanford, 61-62. Asst. prof. polit. sci. & sociol, Michigan, 65-67; economist, Rand Corp, 67-68; ASSOC. PROF. POLIT. SCI. & SOCIOL, UNIV. & DIR. INST. PUB. ADMIN, MICHIGAN, 68- Summer economist, U.S. Dept. Commerce 66. Consult, U.S. Dept. Commerce, 66-67; U.S. Dept. Transportation, 67; U.S. Bur. Budget, 67. Inst. Mgt. Sci; Polit. Sci. Asn.(Leonard D. White award, 67); Inst. Planners; Soc. Pub. Admin; Sociol. Asn; Econ. Asn. Public policy research and administration; bureaucratic decision making; urban and regional economics cognitive processes; empirical research emphasizing simulation and econometric models. Publ: Governmental problem solving: a computer simulation of municipal budgeting, Rand, 68; co-auth Urban property markets: some empirical results and their implications for municipal zoning, J. Law & Econ, 10/67; auth, Computer simulation in urban research, Pub. Admin. Rev, 2/68. Address: Institute of Public Administration, University of Michigan, Ann Arbor, Mich. 48104.

CRECINK, DR. JOHN C(ALVIN), b. Meadville, Miss, Dec. 4, 21; m. 50; c. 4. AGRICULTURAL ECONOMICS. B.S, Miss. State, 43; M.A, Virginia, 48; Ph.D.(econ), Iowa State, 56. AGR. ECONOMIST, BUR. AGR. ECON, U.S. DEPT. AGR, 50- Adj. prof, Miss. State, 57- Farm Econ. Asn. Economic development; land and production economics. Publ: Incomes and resources of rural families in the Clay-Hills of Mississippi; Employment opportunities in farming with varying levels of income in the Sand-Clay Hills, Miss. Agr. Exp. Sta, 67. Address: Dept. of Agricultural Economics, Mississippi State University, Box 862, State College, Miss. 39762.

CREECH, DR. HENRY B(RYANT), Audiol, Speech Path, see 11th ed, Phys. & Biol. Vols.

CREEGAN, PROF. ROBERT F(RANCIS), b. Battle Creek, Mich, Mar. 27, 15; m. 40; c. 1. PSYCHOLOGY. B.A, Marietta Col, 36; M.A, Duke, 37, Ph.D, 39. Asst. philos. & psychol, Col. William & Mary, 39-40; instr, Cumberland, 40-43; asst. prof. psychol, Mississippi, 43-44; Bucknell, 44-45; philos. & psychol, Whitman Col, 45-47; psychol, Carleton Col, 47-48; philos, Ohio, 48-52; PROF. PSYCHOL. & PHILOS, STATE UNIV. N.Y. ALBANY, 52-, HEAD PHILOS. DEPT, 52-, acting head psychol. dept, 53-56. Abstr, Psychol. Abstracts, 54- AAAS; Psychol. Asn. Symbolic behavior; cognitive shock; personal document analysis; status; rituals of logic; belief and doubt. Publ: The shock of existence; Ritualistic cognition, J. Philos; Personal document analysis, Encyclop. Psychol. Address: 28 Wellington Rd, Delmar, N.Y. 12054.

CREELMAN, DR. C. DOUGLAS, b. New York, N.Y, July 27, 33; m; c. 3. PSYCHOLOGY. A.B, Harvard, 56; M.A, Michigan, 58, Ph.D, 61. Asst. psychol, Michigan, 56-60; res. fel, Hopkins, 60-63; assoc. dir. res. subcmt. on noise, Res. Center, 63-64; asst. prof. PSYCHOL, TORONTO, 64-65, ASSOC. PROF, 65- Lectr, Univ. Southern California, 63-64. Consult, Defense Res. Med. Labs, 64- AAAS; Am. Psychol. Asn; Acoustical Soc; Psychonomic Soc; Speech & Hearing Asn; Can. Psychol. Asn. Psychophysics; signal detection; decision theory. Publ: Detection, discrimination, and the loudness of short tones, 64 & Human discrimination of auditory duration, 65, J. Acoustical Soc. Am; Detectability scaling without the J.N.D, Perceptual & Motor Skills, 67. Address: Dept. of Psychology, University of Toronto, Toronto, Ont, Can.

CREELMAN, DR. MARJORIE B(ROER), b. Toledo, Ohio, Dec. 5, 08; div; c. 3. CLINICAL PSYCHOLOGY. A.B, Vassar Col, 31, fel, 31-32; M.A, Columbia, 32; Ph.D.(clin. psychol), Western Reserve, 54. Clin. asst, Psychiat. Inst, N.Y, 32-33; clin. asst. psychol, Western Reserve, 47-49, supvr. field work, 49-54; res. assoc, Edward A. Berk & Assocs, 52-53; consult, Midwest Training Center Human Rels, 56-60; res. psychologist, St. Elizabeths Hosp, Wash, D.C, 63-65, dir. prog. psychophysiol, 65-67; DIR. PSYCHOL. SERV, ALEXANDRIA COMMUNITY MENT. HEALTH CENTER, 67- Consult. & partner, Creelman Assocs, 54-58; private practice, 54-; consult, psychol. br, St. Elizabeths Hosp, 67- Ed, Persona, 47-50. AAAS; fel. Soc. Group Psychother. & Psychodrama; fel. Int. Coun. Psychol.(secy, 64-65); Acad. Psychother.(secy, 60-61, dir. ed, 63-); Psychol. Asn; Soc. Psychol. Study Soc. Issues; Soc. Sci. Study Sex; assoc. Int. Soc. Gen. Semantics; assoc. World Fedn. Ment. Health. Children's self conception test. Publ: Experimental investigation of meaning, Springer, 66; co-auth, Parent education in a group therapy setting, Int. J. Group. Psychother. Address: Alexandria Community Mental Health Center, 720 N. St. Asaph St, Alexandria, Va. 22314.

CREGO, DR. CLYDE A, b. Missoula, Mont, June 6, 36; m. 58; c. 2. PSYCHOLOGY. B.A, Montana, 58, Ph.D.(psychol), Mich. State, 66. Instr. psychol, counseling center, Mich. State, 64-66; ASST. PROF. psychol. & psychiat, North Carolina, Chapel Hill, 66-67; PSYCHOL, WASHINGTON STATE, 67- Psychol. Asn. Configural personality variables; application of configural methods to psychological data. Address: Dept. of Psychology, Washington State University, Pullman, Wash. 99163.

CREMIN, PROF. LAWRENCE A(RTHUR), Hist, Ed, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CRENSHAW, DR. JOSEPH W(ILLIAM), b. Millington, Tenn, Nov. 7, 14; m. 51; c. 2. PSYCHOLOGY. B.S, Memphis State, 35; M.A, Columbia, 47, Ed.D. (student personnel admin), 53. Asst. dir. student personnel & counsr, Pratt Inst, 46-56, dean students, 56-57; prof. ed. & dean students, Jersey City State Col, 57-61; curriculum specialist, FLA. STATE DEPT. ED, 61-65, ASST. SUPT. CURRICULUM & INSTR, 65- Lectr, teachers col, Columbia, 50-51, 55-56; vis. prof, Western Carolina, summers, 63-67. Personnel consult, 54; consult, center sch. servs, N.Y. Univ, 57. Mem. bd. dirs, Interstate Migrant Ed. Proj. & Six-State Regional Curriculum Proj, 65-; mem, Southeastern Ed. Lab. Adv. Coun. U.S.A, 42-46. Psychol. Asn. Computer-assisted instruction; school psychology; adolescent and educational psychology. Publ: Student administration of activity funds; College life, Nat. Ed. Asn. J; Individualizing education, Fla. Sch, 12/65. Address: 2314 W. Indian Head Dr, Tallahassee, Fla. 32301.

CRESAP, PROF. DEAN R(USSELL), b. Trenton, Nebr, Oct. 21, 12; m. 36; c. 2. POLITICAL SCIENCE. A.B, Nebr. State Col, 34; A.M, Stanford, 41, Ph.D, 52. From asst. prof. to PROF. POLIT. SCI, SAN JOSE STATE COL, 47- Vis. prof, California, Los Angeles, 58; Stanford, 59; Southern California & Bahia, 59-61. Consult, Govt. Peru, 65-67. Mem. Palo Alto City Coun, 54-59, mayor, 63-64. Haynes Found. award, 50. U.S.N.R, 42-46, Lt. Polit. Sci. Asn. American politics. Publ: Party politics in the golden state. Address: Dept. of Political Science, San Jose State College, 125 S. Seventh St, San Jose, Calif. 95114.

CRESHKOFF, PROF. AJAY J(OSEPH), b. Philadelphia, Pa, Nov. 7, 15; m. 45; c. 1. ECONOMICS, PUBLIC ADMINISTRATION. B.A, Pennsylvania, 37, M.A, 38. Economist, Off. Prod. Mgt. & War Prod. Bd, 41-43; Civilian Prod. Admin, 46; Robert R. Nathan Assocs, Inc, 46-62; World Bank, 62-65; ASSOC. PROF. ECON. & SOC. DEVELOP, PITTSBURGH, 65- Finance C, U.S.A, 42-46, 1st Lt. Econ. Asn; Soc. Int. Develop; Soc. Pub. Admin. National development planning; development project planning; fiscal economic analysis; process and strategy of development. Publ: Strengthening development project planning in low-income countries, GSPIA Pub. Series, 2/68. Address: 5100 Fifth Ave, Apt. 411, Pittsburgh, Pa. 15232.

CRESPI, DR. LEO P(AUL), b. Aurora, Ill, July 23, 16; m. 42; c. 3. SOCIAL PSYCHOLOGY. A.B, California, Los Angeles, 38, univ. fel, 39; Walker fel, Princeton, 39-40, A.M, 41, Procter fel, 41, Ph.D.(psychol), 42. Instr. psychol, Princeton, 42-43, physics, 43-44, biol, 43-44, psychol, 44-45, asst. prof, 45-48; chief opinion surv. br, Off. Mil. Govt. of U.S, Germany, 48-49; reactions anal. staff, U.S. High Cmnr. for Germany, 49-53, eval. staff, 53-54; external res. div, U.S. INFO. AGENCY, 55-59, surv. res. div, 59-62, asst. dir. res. & reference serv, 62-66, DEP. ASST. DIR. FOR RES. DEVELOP, OFF. POLICY & RES, 66- Superior serv. award, U.S. Info. Agency, 62. Fel. Psychol. Asn; Am. Asn. Pub. Opinion Res; fel. Soc. Psychol. Study Soc. Issues; World Asn. Pub. Opinion Res.(pres, 54-56). Public opinion research; propaganda and international communication. Publ: Amount of reinforcement and level of performance, Psychol. Rev, 44; Are Kinsey's methods valid?, In: Sex habits of American men, Prentice Hall, 48; Image of U.S. versus Soviet science in western European public opinion, In: Western European perspectives on international affairs, Praeger, 67. Address: Office of Policy & Research, U.S. Information Agency, 1750 Pennsylvania Ave, N.W, Washington, D.C. 20547.

CRESSEY, PROF. DONALD R(AY), b. Fergus Falls, Minn, Apr. 27, 19; m. 43; c. 3. SOCIOLOGY. B.S, Iowa State, 43; Ph.D, Indiana, 50. Sociologist, State Div. Criminol, Ill, 49; from instr. to prof. sociol, CALIFORNIA, Los Angeles, 49-62, chmn. dept. anthrop. & sociol, 58-61, acting dean div. soc. sci, 60-61, PROF. SOCIOL, SANTA BARBARA, 62-, dean col. letters & sci, 62-67. Russel Sage Found. res. grant, 55-56; vis. fel, Cambridge, 61-62; vis. prof, Univ. Oslo, 65. Spec. consult, President's Cmn. Law Enforcement & Admin. Justice, 65-66; consult, N.Y. State Joint Legis. Cmt. Crime, 67- Mem, cmt. res. correctional orgn, Soc. Sci. Res. Coun, 55-56; cmt. soc. sci, training & manpower resources br, Nat. Inst. Ment. Health, 63-67. Res. citation, Ill. Acad. Criminol, 64; Sutherland award, Am. Soc. Criminol, 67. U.S.A.A.F, 43-46. Sociol. Asn; Correctional Asn; Law & Society Asn; Int. Soc. Criminol. Sociology of crime, punishment and correctional organization; criminal behavior systems. Publ: Principles of criminology; Theoretical studies in social organization of the prison; The structure and functions of confederated crime. Address: Dept. of Sociology, University of California, Santa Barbara, Calif. 93106.

CRESSEY, PROF. PAUL F(REDERICK), b. Dayton, Ohio, June 13, 99; m. 31; c. 2. SOCIOLOGY. Ph.B, Denison, 21; Yale, 24-25; Ph.D, Chicago, 30. Asst. prof. sociol, Reed Col, 27-28; instr, Chicago, 29-30; urban sociologist, Laymen's For. Missions Inquiry in India, Inst. Soc. & Relig. Res, 30-31; asst. prof. SOCIOL, McGill, 31-32; prof, WHEATON COL, 31-64, EMER. PROF, 64- Vis. prof, Stanford, 43-44; Fulbright vis. prof, Rangoon, 49-50; Silliman Univ, P.I, 56-57, 64-65. Trustee, Pine Mt. Settlement Sch, Ky, 46-49, mem. adv. bd, 49- U.S.A, 18. Sociol. Asn. Influence of the literary examination system on the development of Chinese civilization; social survey of Rangoon, Burma; Chinese traits in European Civilization. Address: 1516 37th Ave, Seattle, Wash. 98122.

CRESSMAN, DR. CHARLES PHILIP, b. White Haven, Pa, June 16, 14; m. 39; c. 3. SOCIOLOGY. A.B, Muhlenberg Col, 35; B.D, Lutheran Theol. Sem, 39, S.T.M, 41; Pa. Sch. Soc. Work, 44-46; Ed.D.(sociol, counseling), Pennsylvania, 51. Pastor, Lutheran Churches, Pa, 38-46; asst. prof. sociol, Wittenberg, 46-51; pastor, Lutheran Churches, Ky, 51-53, Md, 53-58; PROF. SOCIOL, GROVE CITY COL, 58- Fel. Sociol. Asn; Nat. Coun. Family Rels; Acad. Polit & Soc. Sci. Marriage and family education; marriage counseling. Publ: Ministers and marriage instruction, Soc. Forces, 3/42; The church's role in the stabilization of marriage and family life, Lutheran Church Quart, 3/46; chap. In: Introduction to sociology, Stackpole, 52. Address: Dept. of Sociology, Grove City College, Grove City, Pa. 16127.

CRESSMAN, PROF. L(UTHER) S(HEELEIGH), b. Pottstown, Pa, Oct. 24, 97; m. 28; c. 1. ANTHROPOLOGY. A.B, Pa. State Col, 18; S.T.B, Gen. Theol. Sem. New York 23; A.M, Columbia, 23, Ph.D.(sociol), 25. Mem. staff, dept. govt, City Col, Columbia, 27-28; prof. soc. sci, Wash. State Norm. Sch, 28-29; sociol, OREGON, 29-34, ANTHROP, 34-63, head dept, 36-63, EMER. PROF, 63- Leader archaeol. field parties, Oregon, 32-35, 37-42, 46-63, curator anthrop, 33-63, dir. mus. nat. hist, 36-63, res. assoc, 63- Res. assoc, Carnegie Inst, 37-42; Guggenheim fel, 40-41, 49-50. Distinguished serv. award, Oregon, 68. U.S.A, 17-19. Fel. AAAS (pres, Pac. Div, 48); fel. Anthrop. Asn; Soc. Am. Archaeol. Early man in the new world; Great Basin & Far Western North American prehistory. Publ: Archaeological researches in the Northern Great Basin, Pub, Carnegie Inst; Klamath prehistory & Cultural sequences at The Dalles, Oregon, Trans. Am. Philos. Soc. Address: Dept. of Anthropology, University of Oregon, Eugene, Ore. 97403.

CRESSY, PROF. ARTHUR CHEEVER, JR, Polit. Sci, Int. Rels, see 10th ed, Soc. & Behav. Vols.

CREVENNA, THEO R(EGINALD) B(OLONGARO), b. Frankfurt, Germany, May 22, 20; nat; m. 42; c. 2. SOCIOLOGY. B.A, New Mexico, 43, M.A, 44. Asst, Sch. Inter-Am. Affairs, New Mexico, 41-43; chief soc. sci. sect, GEN. SECRETARIAT, ORGN. AM. STATES, 46-61, DEP. DIR. DEPT. SOC. AFFAIRS, PAN AM. UNION, 61- Ed, Ciencias Sociales. U.S.A, 43-46. AAAS; Sociol. Asn; Geog. Soc. Social structure, social mobility and ethnohistory of Latin America. Publ: Materiales para el estudio de la clase media en la América Latina; Role of sociology and anthropology in economic development. Address: Dept. of Social Affairs, Pan American Union, Washington, D.C. 20006.

CREWSON, PROF. HARRY B(ERNARR), JR, Econ, see 10th ed, Soc. & Behav. Vols.

CRIBBIN, DR. JAMES J(OSEPH), b. New York, N.Y, Feb. 2, 15; m. 44; c. 4. INDUSTRIAL MANAGEMENT & RELATIONS. A.B, St. Louis, 41, M.A, 42, Ph.L, 43; Ph.D.(ed. psychol. & guid), Fordham, 51; dipl, Columbia, 57. Instr. ed. psychol. & guid, Fordham, 47-51, asst. prof, 51-55, assoc. prof, 55-57; mgt. & indust. rels, N.Y. Univ, 57-61; CHMN. DEPT. MGT, GRAD. DIV, ST. JOHN'S (N.Y), 61- Indust. & govt. lectr. & consult; pres, Consults. to Indust, Inc; sr. consult, Alihan Assocs. U.S.N, 44-46. Psychol. Asn; Soc. Adv. Mgt; Personnel & Guid. Asn; Acad. Polit. & Soc. Sci. Organization problems and theory; executive development policy formulation and implementation; training. Publ: Management of training programs, Irwin, 60; The insight series (4 vols), Harcourt, 64-65; Sense and nonsense about leadership, United Hosp. Fund, N.Y. 67. Address: 1771 Madison Place, Brooklyn, N.Y. 11229.

CRICKMAN, C(HLORUS) W(ILLIAM), b. Clay City, Ill, Aug. 30, 98; m. 29; c. 4. AGRICULTURAL ECONOMICS. B.S, Illinois, 21; M.S, Iowa State, 24; Soc. Sci. Res. Coun. fel, Harvard, 31-32. Asst. head north. field res. sect. prod. econ, U.S. DEPT. AGR, 29-60, asst. chief agr. adj. br, FARM PROD. ECON. DIV, 60-62, chief, 62-64, FIELD RES. COORDINATOR, ECON. RES. SERV, 64- Agr. Econ. Asn. Publ: Feed grains and meat animals in war and peace; Postwar agricultural problems in the corn belt, J. Farm Econ; Looking ahead with feed grain and livestock farmers. Address: Farm Production Economics Division, U.S. Dept. of Agriculture, Washington, D.C. 20250.

CRIDER, DR. ANDREW B(LAKE), b. Cleveland, Ohio, June 11, 36; m. 64; c. 1. PSYCHOLOGY. B.A, Colgate, 58; Fulbright scholar, Brussels, 58-59; M.S, Wisconsin, 60; univ. fel, Harvard, 60-61, Nat. Inst. Ment. Health fel, 61-63, Ph.D.(psychol), 64. Nat. Inst. Ment. Health res. training prog, 64-66; res. fel. PSYCHOL, DEPT. PSYCHIAT, HARVARD MED. SCH, 64-66, RES. ASSOC, 66-, LECTR, DEPT. SOC. RELS, UNIV, 65- AAAS; Psychol. Asn; Soc. Psychophysiol. Res. Classical and operant conditioning of autonomic nervous system functions; autonomic nervous system correlates of behavior. Publ: Co-auth, Reinforcement of spontaneous electrodermal activity, J. Comp. & Physiol. Psychol, 61: 20-27, Operant electrodermal conditioning under multiple schedules of reinforcement, Psychophysiology, 4: 168-175 & Psychophysiological approaches in social psychology, In: Handbook of social psychology, Rev. Vol. III, Addison-Wesley, 68. Address: Massachusetts Mental Health Center, 74 Fenwood Rd, Boston, Mass. 02115.

CRIDER, PROF. BLAKE, b. Mexia, Tex, Aug. 7, 01; m. 32; c. 2. PSYCHOLOGY. A.B, Missouri, 24; A.M, Chicago, 28; Ph.D.(psychol), Western Reserve, 33. Teacher, high sch, Tex, 24-26; instr, Albion Col, 26-29; dir. res, Shaker Heights Bd. Ed, 29-31; PROF. PSYCHOL. & HEAD DEPT, CLEVELAND STATE, 34- Psychologist, St. Luke's Hosp, 35-50. Fel. Psychol. Asn. Clinical psychology. Address: Dept. of Psychology, Cleveland State University, Cleveland, Ohio 44114.

CRIDER, DR. CHARLES CLIFFORD, b. Brunswick, Md, Aug. 16, 13; m. 39; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. A.B, Columbia Union Col, 40; A.M, Seventh Day Adventist Theol. Sem, 51; Ph.D.(sociol), Southern California, 62. Pastor, Ohio Conf, Seventh Day Adventists, 40-43, dir. Iran mission, Mid. East Union, 44-50, pastor, Ala-Miss. Conf, 51-53, pres. Iraq mission, East Mediterranean Union, 53-57, supt. schs, 57-59; asst. prof. sociol, La Sierra Col, 60-64; PROF. SOCIOL. & CHMN. DEPT. BEHAV. SCI, ANDREWS, 64- Sociol. Asn; Coun. Soc. Work Ed. Group dynamics ethnic relations and sociology of religion. Address: Dept. of Behavioral Sciences, Andrews University, Berrien Springs, Mich. 49104.

CRIGLER, DR. T. P, b. Newark, Ark, Mar. 31, 33; m. 57; c. 1. ECONOMICS. B.S, Ark. State Col, 52; M.S, Cornell, 56; Ph.D, Okla. State, 58. Asst. econ, Cornell, 54-55; Okla. State, 55-57; mkt. analyst, E.I. du Pont de Nemours & Co, 57-61; PRICE ECONOMIST, ARMOUR & CO, 61- U.S.A, 52-54, Res, 54-, Capt. Agr. Econ. Asn. Methods of forecasting gross national product and its components by using quantitative techniques; development of a price equilibrium model for animal feed ingredients. Address: Armour & Co, 401 N. Wabash Ave, Chicago, Ill. 60611.

CRIM, PROF. ED. F(RANKLIN), JR, b. Okmulgee, Okla, Aug. 18, 23; m. 59; c. 2. ECONOMICS. B.S, Oklahoma, 43; M.S, Illinois, 53, Ph.D, 60. Chemist, Trop. Oil Co, 44, Stanolind Oil & Gas Co, 47-50; assoc. prof. bus. statist, OKLAHOMA, 55-65, PROF. ECON, 65-, ASST. DEAN GRAD. COL, 68- Prof. econo-met, Nat. Univ. Honduras, 63-64. U.S.A, 45-46, 2nd Lt. Econ. Asn; Statist.

Asn; Economet. Soc. Business statistics; econometrics. Publ: Quantitative methods in logistics analysis, In: Principles of logistics management, Appleton, 66. Address: Dept. of Economics, University of Oklahoma, Norman, Okla. 73069.

CRIMI, PRES. JAMES E(RNEST), b. Toledo, Ohio, Aug. 27, 16. SOCIOLOGY. A.B, Aurora Col, 38; A.M, Southern California, 41; Ph.D, Chicago, 59. Instr. sociol, AURORA COL, 41-42, asst. prof. & registr, 46-55, prof. sociol. & dean col, 55-62, PRES, 62- Classification & assignment officer, U.S.A, 42-46. Sociol. Asn; Adult Ed. Asn; Acad. Polit. & Soc. Sci. Race relations; adult education. Address: Dept. of Sociology, Aurora College, Aurora, Ill. 60507.

CRIPPS, PROF. THOMAS R(OBERT), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CRISAFULLI, PROF. VIRGIL C(HARLES), b. Clarksburg, W.Va, Apr. 22, 12; m. 38. ECONOMICS. A.B, Ohio State, 38, M.A, 40, Ph.D.(econ), 54. Asst. prof. ECON, UTICA COL, 46-54, assoc. prof, 54-61, PROF, 61-, chmn. div. bus. & econ, 46-47, dir. res. center, 57-61. Consult, Wage Stabilization Bd. Constitutional del, N.Y. State Constitutional Convention, 67. U.S.N.R, 43-46, Lt. Econ. Asn; Indust. Rels. Res. Asn; Arbit. Asn. Labor economics; community planning. Publ: An economic analysis of the Utica-Rome area, Utica Col. Res. Center, 60; Co-auth, Community economic development efforts. Cmt. Econ. Develop, 64. Address: Division of Business & Economics, Utica College, Utica, N.Y. 13502.

CRISLER, PROF. ROBERT M(ORRIS), b. Columbia, Mo, Jan. 5, 21; m. 43; c. 2. GEOGRAPHY. A.B, Missouri, 41; M.S, Northwestern, 47, Ph.D, 49. Instr, U.S. Army Univ.(Italy), 46; Northwestern, 47-48; asst. prof. geog, Washington (St. Louis), 48-54; from assoc. prof. to PROF. SOC. STUDIES & HEAD DEPT, SOUTHWESTERN LOUISIANA, 54- With U.S. Govt, D.C, 50-52. Asn. Am. Geog; Geog. Soc; Nat. Coun. Geog. Ed. Economic geography of the United States; geography of voting habits; road maps. Publ: Republican areas in Missouri, Mo. Hist. Rev; Recreation regions of Missouri, J. Geog: Road maps for tourists, Consumers' Res. Bull. Address: Dept. of Social Studies, University of Southwestern Louisiana, Lafayette, La. 70501.

CRISPO, PROF. JOHN H(ERBERT) G(ILLESPIE), b. Toronto, Ont, May 5, 33; c. 1. ECONOMICS, INDUSTRIAL RELATIONS. B.Com, Toronto, 56; Ph.D, Mass. Inst. Tech, 60. Asst. prof. econ, Huron Col.(Ont), 60-61; ECON. & INDUST. RELS. SCH. BUS. TORONTO, 61-64, assoc. prof, 64-65, PROF, 65-, DIR. CENTRE INDUST. RELS, 65- Dir. res, Royal Cmn. Labor-Mgt. Rels, Construct. Indust, Ont. 61-62; mem, Prime Minister's Task Force Labour Rels, 67. Econ. Asn; Indust. Rels. Res. Asn; Can. Industr. Rels. Res. Inst. Labor relations in public utilities and in the construction industry. Publ: International unionism, McGraw, 67; The role of international unionism, Wash-Can. Am. Cmt, 67. Address: University of Toronto School of Business, Toronto 5, Ont, Can.

CRISSEY, DR. ORLO L(EE), b. Norfolk, Nebr, Dec. 29, 04; m. 28, 67; c. 3. INDUSTRIAL PSYCHOLOGY. B.A, Minnesota, 27; B.A.S, George Williams Col, 29; M.A, Chicago, 31; Ph.D, Iowa, 36. Dir. mobile ment. health clin, div. child welfare serv, State Soc. Welfare Bd, Iowa, 36-37; child guid. clin, Flint Guid. Center, Mich, 37-42, resident dir. youth guid. proj, 38-42; ed. dir. & indust. psychologist, AC spark plug div, Gen. Motors Corp, 42-48, DIR. PERSONNEL EVAL. SERV, GEN. MOTORS INST, 48- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. AAAS; fel. Psychol. Asn. Industrial selection and placement; management development, manpower planning; performance appraisal; organizational analysis. Publ: Employment testing, In: Industrial medicine and surgery; Mental development as related to institutional residence and educational achievement, Univ. Iowa Studies in Child Welfare; Selective placement: proceedings of conference on selective placement of disabled veterans and other handicapped. Address: General Motors Institute, Third & Chevrolet Ave, Flint, Mich. 48473.

CRISSY, PROF. W(ILLIAM) J(OSEPH) E(LIOT), b. Philadelphia, Pa, Aug. 25, 12; m; c. 1. INDUSTRIAL PSYCHOLOGY. B.S, West Chester State Teachers Col, 35; Ed.M, Harvard, 37; Ph.D.(ed. psychol), North Carolina, 42. Mem. faculty, North Carolina, 37-39; New Hampshire, 39-41; assoc. prof. psychol, Queens Col.(N.Y), 47-57; PROF. MKT, GRAD. SCH. BUS. ADMIN, MICH. STATE, 60-, assoc. dean, 64-67. Mem. faculty, N.Y. Univ. & Fordham, 47-57; vis. prof, Simon Fraser Univ, 67-68. Pres, Personnel Develop, Inc, 53-60; v.pres, Ed. Res. Corp, 54-59. Consult, Coop. Test Serv. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 42-46, Comdr. Fel. Psychol. Asn; Psychomet. Soc; Mkt. Asn. Applications of psychology to marketing strategy and tactics. Publ: Co-auth, Psychology of selling, Personnel Develop. Assocs, 57-65; Matrix models for marketing planning, Bus. Topics, 64. Address: 4479 Wausau Rd, Okemos, Mich. 48864.

CRIST, PROF. JOHN R(ICHARD), b. Washington, Ind, May 31, 18; m. 43; c. 4. SOCIOLOGY. A.B, Pacific Col, 44; M.A, Iowa, 45; Iowa State Col, 48; Ph.D. (sociol, family), Missouri, 51. Chmn. dept. sociol, Friends Univ, 45-48; instr. sociol, Missouri, 48-51; asst. prof. marriage & family living, Fla. State, 51-52; assoc. prof. SOCIOL, Denison, 52-65; PROF, LEWIS & CLARK COL, 65- Menninger Found. fel, 54; Ford Found. summer res. grant, Bogota, Colombia, 64. Sociol. Asn; Coun. Family Rels; fel. Asn. Marriage Counsr. Marriage and the family; marriage counseling; social psychology. Publ: Co-auth. & contrib, Counseling in marital & sexual problems, Williams & Wilkins, 65; auth, Experiment in marriage counseling training & Use of literature in marriage counseling, J. Counseling Psychol. Address: Dept. of Sociology, Lewis & Clark College, Portland, Ore. 97219.

CRIST, PROF. RAYMOND E(VERETT), Geog, see 10th ed, Soc. & Behav. Vols.

CRIST, PROF. ROBERT LaFOLLETTE, b. Chicago, Ill, Oct. 9, 24; m. 49; c. 3. PSYCHOLOGY, EDUCATION. B.S, Illinois, 49; M.S, Purdue, 58, Ph.D. (ed. psychol), 60. Instr. civil eng, Purdue, 53-61; assoc. dir. res, Midwest Prog. Airborne TV Instr, 61-62; PROF. PSYCHOL, ILLINOIS STATE, 62- U.S. Off. Ed. res. grants, 65-67; Nat. Inst. Ment. Health res. grant, 66. U.S.A, 43-45. Psychol. Asn. Human learning and reinforcement. Publ: Overt vs. covert responding and retention by sixth-grade students, J. Ed. Psychol, 4/66; Use of multiplication program under group-paced conditions, winter 66 & Role of peer influence during group use of programmed materials, winter, 67, Audiovisual Commun. Rev. Address: Dept. of Psychology, Illinois State University, Normal, Ill. 61761.

CRISTANTIELLO, DR. PHILIP DANIEL, b. New York, N.Y, Aug. 19, 27; m. 51; c. 4. PSYCHOLOGY. B.S, Fordham, 51, M.A, 53, Ph.D.(ed. psychol, guid, measurement), 59. Counseling psychologist, Archdiocesan Voc. Serv, 52-54; assoc. dir. guid, St. Peter's Col.(N.J), 54-67; CONSULT. COUNSELING PSYCHOL, ST. JOSEPH'S SEM, 67- Lectr, Fordham, 57-61. Consult, Brothers of Christian Schs. & St. Vincent's Sch. Nursing, 66- U.S.A, 46-47. Psychol. Asn; Personnel & Guid. Asn. Psychotherapy; attitudinal and personality correlates of success in mathematics; assessment and counseling of candidates for religious vocations; communication in counseling and therapy. Publ: Study skills problem, J. Higher Ed; Coping with problems of confidentiality in a college setting, Cath. Psychol. Record, winter 67; Group process for developing a faculty adviser program, Nursing Outlook, 68. Address: St. Joseph's Seminary, 130 Sherwood Ave, Yonkers, N.Y. 10704.

CRISTIANI, PROF. VINCENT A, b. Boston, Mass, Apr. 10, 32; m. 62; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Mass. State Col. Boston, 53; Ed.M, Boston, 54, Ed.D, 60. Substitute teacher, Boston Sch. Syst, 52-53; teacher, Boston Tech. High Sch, 54-55; instr. & res. specialist, Qm. Sch, Va, 55-57; teacher, Deer Hill Sch, Mass, 57-58; teaching fel, sci-math. reading clin, Boston, 58-60, registr, 60-66; PROF. ED. PSYCHOL, MASS. STATE COL. BOSTON, 66- Lectr, New Hampshire, summers, 59 & 60; Nat. Defense Ed. Act res. grant teaching disadvantaged, Inst. Adv. Study, 66-67. Mem, Nat. Cmn. Teacher Ed. & Prfnl. Standards, 62-; bd. dirs, Coun. Urban Ed, 66-U.S.A, 55-57. Education methodology, psychology, role-playing techniques in normal classroom use; sociometric measurement; disadvantaged youth; urban education. Publ: Auth, Team learning and related techniques, Am. Bus. Ed, 5/62; Is there a doctor in the house?, Nat. Asn. Doctors in U.S, 6/65. Address: Dept. of Psychology, Massachusetts State College at Boston, 625 Huntington Ave, Boston, Mass. 02115.

CRISWELL, DR. JOAN H(ENNING), b. Chicago, Ill, Oct. 14, 06; div; c. 1. PSYCHOLOGY. B.A, Wellesley Col, 29; M.A, Columbia, 31, Ph.D.(psychol), 39. Personnel res. technician psychol, Soc. Security Bd, 41-42; Soc. Security Admin, 45-46; personnel res. analyst, Bur. Naval Personnel, 46-50; asst. head group psychol. br, Off. Naval Res, 50-60; exec. secy. psycho-soc. study sect, off. voc. rehab, U.S. DEPT. HEALTH, ED. & WELFARE, 60-64, asst. chief div. res. & demonstrations, SOC. & REHAB. SERV, 64-67, CHIEF REHAB. RES. BR, 67- Psychol. Asn. Group interaction; sociometric measurement. Publ: Sociometric study of race clevage in the classroom, Arch. Psychol; Sociometric concepts in personnel administration & Notes on the constant frame of reference problem, Sociometry. Address: 1435 Fourth St. S.W, Washington, D.C. 20024.

CRITCHFIELD, PROF. HOWARD J(OHN), b. Vernon, Colo, Sept. 24, 20; m. 50; c. 2. GEOGRAPHY. B.A, Washington (Seattle), 46, M.A, 47, Ph.D, 52. Instr. GEOG, Washington State, 47-48; vis. lectr, Canterbury, 48-50; from asst. prof. to PROF, WEST. WASH. STATE COL, 51- Carnegie travel grant, New Zealand, 48; Fulbright travel award, 50; Weyerhaeuser Conserv. travel award, 56; New Zealand Univ. travel grant, 59; vis. prof, Univ. Canterbury, 59; hon. res. assoc, dept. geog, Univ. Col, London, 64; summer vis. prof, Univ. Waikato, N.Z, 66. U.S.A.A.F, 42-46. AAAS; Asn. Am. Geog; Am. Meteorol. Soc; Am. Geog. Soc; Nat. Coun. Geog. Ed; Can. Asn. Geog; N.Z. Geog. Soc. Agricultural geography; climatology; Pacific Islands; Australia; New Zealand. Publ: General climatology, Prentice-Hall, 2nd ed, 66; Growth of pastoralism in Southland, New Zealand, Econ. Geog, 10/54; Water balance analogues in the marine climates of New Zealand and North America, N.Z. Geogr, 10/66. Address: Dept. of Geography, Western Washington State College, Bellingham, Wash. 98225.

CRITES, DR. DENNIS M, b. Wichita Falls, Tex, Nov. 22, 20; m. 42; c. 3. MARKETING, COMMUNICATION. B.S, Oklahoma, 47, M.B.A, 49; D.B.A, Indiana, 56. Cost analyst, Wilson & Co, 47-48; instr. mkt, Oklahoma, 49-52, asst. prof, 52-56, assoc. prof, 56-60, chmn. dept, 56-60; prof, consult. & co-chmn. mkt. exec. develop, Istituto Direzionale e Tecnicoeni, Milan, Italy, 60-61; assoc. prof, MKT, OKLAHOMA, 61-62, PROF, 62-, CHMN. DEPT, 68- Grants, Case Study Seminar, Harvard Bus. Sch, summer, 58; South. Case Writers Asn, 63-64; Univ. Chicago Mkt. Res. Workshop, 64-65. Adj. Gen. Corps, U.S.A, 41-45, 45-, Lt. Col. Mkt. Asn. Interpersonal communication; dyadic interaction and communication; buyer behavior. Address: Dept. of Marketing, University of Oklahoma, Norman, Okla. 73069.

CRITES, PROF. JOHN O(RR), b. Kansas City, Mo, July 22, 28; m. 52; c. 2. PSYCHOLOGY. Stevens mem. scholar. & Ph.D.(psychol), Columbia, 57. Lectr, health ed, Columbia, 56-57; couns. psychologist, testing & guid. bur, Texas, 57-58; asst. prof. PSYCHOL, IOWA, 58-67, PROF, 67-, DIR. UNIV. COUNSELING SERV, 65-, sr. counsr, 58-65. Res. assoc, Harvard, 66-67. U.S.M.C.R, 48-50; U.S.A.F, 50-53. Psychol. Asn; Personnel & Guid. Asn. (res. award, 66); Ed. Res. Asn. Vocational and normal psychology; relationship of parental attitudes and behavior to vocational development; theory and measurement of normal personality. Publ: Co-auth, Appraising vocational fitness, Harper, 62; Vocational psychology, McGraw, 68. Address: University Counseling Service, University of Iowa, Iowa City, Iowa 52240.

CRITOPH, DR. GERALD ERNEST, Am. Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CRITTENDEN, DR. CHARLES V(AN VALKENBURG), b. Olivet, Mich, May 11, 04; m. 30; c. 2. GEOGRAPHY. A.B, Michigan, 26, M.A, 28, fel. & Ph.D. (geog), 40. Instr. econ. & econ. geog, Toledo, 29-31; asst. prof. geog, womans col, North Carolina, 31-37; tech. & res. asst. geog, Michigan, 40-42; from geogr. to sect. chief & map intel. officer, map div, res. & anal. br, Off. Strategic Serv, Wash, D.C. & Switz, 42-45; asst. prof. geog, Ohio State, 46; George Washington, 46-47; sr. & chief researcher, Va. Geog. Inst, Virginia, 47-56; earth sci. staff ed, Mc-Graw-Hill Encyclop. Sci. & Tech, 56-60; tech. ed, Sourcebook Geol. & Related Earth Sci, Nat. Acad. Sci-Am.

Geol. Inst, 60-67; GEOGR, OFF. REGIONAL DEVELOP. PLANNING, U.S. DEPT. COMMERCE, 67- Asn. Am. Geog. Costal-zone regions; southeastern North America; cartography and regional airphoto techniques. Publ: Bud Flat as type area on Cumberland & Local relief of southern Appalachian Mountains, Papers, Mich. Acad. Sci, Arts & Letters; Objectives and methods of photo interpretation research on the Mediterranean Basin. Address: 6 Parkside Rd, Silver Spring, Md. 20910.

CRITTENDEN, DR. JOHN A, b. Milwaukee, Wis, May 7, 27; m. 53; c. 2. POLITICAL SCIENCE. B.A, Wesleyan, 50; M.A, North Carolina, 57, Ph.D, 61; fel, Chicago, 59-60. Staff asst, Mutual Security Agency, 52-53; instr. govt, Wesleyan, 57-59; asst. prof. POLIT. SCI, Southern California, 60-63; State Univ. N.Y. Buffalo, 63-65; ASSOC. PROF, INDIANA STATE, 65- U.S.N, 45-46. Polit. Sci. Asn. Political behavior. Publ: Dimensions of modernization in the American states, Am. Polit. Sci. Rev, 12/67. Address: Dept. of Political Science, Indiana State University, Terre Haute, Ind. 47809.

CROBAUGH, PROF. CLYDE J(ULIAN), Econ, Bus. Admin, see 10th ed, Phys. & Biol. Vols. Latest known address: 1219 Buena Drive, Lakeland, Florida 33801.

CROCETTI, DR. CARLO P, Psychol, see 11th ed, Phys. & Biol. Vols.

CROCETTI, PROF. GUIDO M, b. New York, N.Y, Jan. 2, 20; m. 41; c. 1. SOCIOLOGY. B.S, Rutgers, 41; Columbia, 45-48. Instr. sociol, Dickinson Col, 48-50; res. assoc, bur. appl. soc. res, Columbia, 51; Richard Manville Res. Inst, 53-54; Hosp. Coun. of Greater New York, 54-55; staff sociologist, New York Community Ment. Health Bd, 55-58; ASST. PROF. MENT. HYG, SCH. HYG. & PUB. HEALTH, HOPKINS, 58- Lectr, City Col. New York, 53-54. Consult, Div. Consumer Res, Int. Bus. Mach. Corp, 60-; Md. State Dept. Health, 61-; Md. State Dept. Ment. Hyg, 62-; Staten Island Ment. Health Soc, 62-; Henry Phipps Psychiat. Clin, Johns Hopkins Hosp, 62-; N.Y. State Dept. Ment. Hyg, 67- Mem. spec. adv. cmt. ment. health communications, Nat. Inst. Ment. Health. U.S.C.G, 42-45. Sociol. Asn; Pub. Health Asn. (award). Mental health; medical care; attitudinal; sociology of public health. Publ: Co-auth, Selected aspects of the epidemiology of schizophrenia in Croatia, Yugoslavia, Milbank Mem. Fund Quart, 4/64; co-auth, Epidemiology of mental illness & Epidemiology of schizophrenia, In: Comprehensive textbook of psychiatry, Waverly, 67. Address: School of Hygiene and Public Health, Johns Hopkins University, 615 N. Wolfe St, Baltimore, Md. 21205.

CROCKER, DR. JON CHRISTOPHER, b. Chicago, Ill, Feb. 7, 38; m. 62. SOCIAL ANTHROPOLOGY. B.A, Duke, 60; Fulbright fel, Paris, 60-61; Arnold fel, Harvard, 61-62, Nat. Inst. Ment. Health fel, 62-63, Ph.D.(soc. anthrop), 67. Vis. asst. prof. ANTHROP, DUKE, 66-67, ASST. PROF, 67-, Int. Studies Cmt. grant, 67. Am. Anthrop. Asn; Royal Anthrop. Inst. Gt. Brit. & Ireland. Social organization and kinship analysis; ritual, primitive religion and the analysis of symbolic behavior; political anthropology. Publ: Brazil: a consideration of an urban oriented society, High Sch. J,(in press). Address: Dept. of Anthropology, Duke University, Durham, N.C. 27706.

CROCKER, DR. WILLIAM H(ENRY), b. San Francisco, Calif, Aug. 20, 24; div. CULTURAL ANTHROPOLOGY. B.A, Yale, 50; M.A, Stanford, 53; Ph.D, Wisconsin, 62. ASSOC. CURATOR S.AM. ETHNOL, SMITHSONIAN INST, 62- Grants, Nat. Sci. Found, 64 & Wenner-Gren Found. Anthrop. Res, 64. U.S.A, 43-46. AAAS; Anthrop. Asn; Asn. Latin Am. Studies. Ethnology, especially of the Ramkokamekra-Canela Indians of Maranhão, Brazil; processes of cultural change and conservatism over a long period of time. Publ: Extra marital sexual practices of the Ramkokamekra-Canela Indians, In: Niedersachsisches Landesmuseum, Germany, 64; Ethnology: South America, In: Handbook of Latin American studies, Hispanic Found, Library Cong, 65; The Canela messianic movement, In: Atas do Simposio sôbre a Biota Amazônica, vol. 2, Antropologia, Brazil, 67. Address: Division of Latin American Anthropology, Office of Anthropology, Smithsonian Institution, Washington, D.C. 20560.

CROCKETT, DR. EARL C(LARKSON), b. Preston, Idaho, May 13, 03; m. 25; c. 4. ECONOMICS. A.B, Utah, 27; Ph.D, California, 31; J.D, Brigham Young, 68. Asst. prof. finance, North Dakota, 31-34; econ, Colorado, 34-37, assoc. prof, 37-41, prof, 41-57, chmn. dept. soc. sci, 41-43, 47-49, 56-57, acting dean grad. sch, 49-50; ACAD. V.PRES, BRIGHAM YOUNG, 57-, acting pres, 64-65. Prof, overseas prog, Maryland, 52-53; faculty res. lectr. Colorado, 52. Mem. higher cmn, Northwest Asn. Secondary & Higher Schs, 58- Prin. economist, War Prod. Bd, 42-43. Econ. Asn. History of California labor legislation, 1910-1930. Publ: Colorado's income tax; Colorado's old age pensions. Address: Brigham Young University, Provo, Utah 84601.

CROCKETT, DR. HARRY JENNINGS, JR, b. Burlington, Kans, Aug. 31, 27; m. 55; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Kansas, 53; M.A, Washington (St. Louis), 55; Ph.D, Michigan, 61. Asst. prof. SOCIOL, North Carolina, 60-65; ASSOC. PROF, NEBRASKA, 65- U.S.M.C, 45-46. Sociol. Asn; Soc. Psychol. Study Social Issues. Social structure and personality; sociolinguistics. Publ: Psychological origins of mobility, In: Social structure and mobility in economic development, Aldine, 66; Smelser & Seymour M. Lipset, ed; Social structure and mobility in economic development, Aldine, 66; co-auth, Achievement in American society, Schenckman, 67. Address: Dept. of Sociology, University of Nebraska, Lincoln, Nebr. 68508.

CROCKETT, PROF. JEAN A(NDRUS), b. Tucson, Ariz, Apr. 20, 19; m. 53; c. 3. ECONOMETRICS, FINANCE. B.A, Chicago, 39, M.A, 48, Ph.D, 50; M.A, Colorado, 45. Instr. math, Arizona, 45-46; asst. prof. econ, Illinois, 51; bus. analyst, econ. & statist, off. bus. econ, U.S. Dept. Commerce, 49-50, 52-53; asst. prof, FINANCE, PENNSYLVANIA, 55-59, assoc. prof, 59-66, PROF, 66- Statist. Asn; Econom. Soc; Inst. Math. Statist. Consumer expenditure relationships; anticipatory data for plant and equipment expenditures; least squares bias in econometric relationships. Publ: Sources and size of least squares bias in a two-equation model, In: Studies in econometric method; co-auth, Plant and equipment programs and their realization, In: Studies in income and wealth; Complete set of consumer demand relationships, Proc. Conf. Consumption & Savings. Address: Wharton Graduate School, University of Pennsylvania, Philadelphia, Pa. 19104.

CROCKETT, PROF. WALTER H(OBSON), b. Strawn, Kans, Apr. 8, 21; m. 43; c. 3. SOCIAL PSYCHOLOGY. A.B, Kansas, 47, M.A, 49; Ph.D.(soc. psychol), Michigan, 53. Asst. study dir, Michigan, 52-53; asst. prof. PSYCHOL, Kans. State Col, 53-57; from asst. prof. to assoc. prof, CLARK, 57-65, PROF, 65- Summers, Nat. Sci. Found. sci. faculty fel, 57-59. U.S.A, 40-42; U.S.A.A.F, 43-45. Psychol. Asn. Perception of people; attitudes. Address: Dept. of Psychology, Clark University, Worcester, Mass. 01610.

CROFT, PROF. KENNETH, Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

CROLEY, DR. HUGH T(HOMAS), b. Pocatello, Idaho, Feb. 24, 24; m. 49; c. 3. PSYCHOLOGY. Fel, Denver, 50-51, Ph.D.(psychol), 51; M.P.H, California, 59. Chief clin. psychologist, Colo. State Hosp, 51; asst. prof. psychol, Tex. Col. Arts & Indust, 51-53; chief clin. psychologist, Winfield State Training Sch, Kans, 53-58; res. specialist, State Dept. Pub. Health, Calif, 60-63; CHIEF ADV. FAMILY PLANNING, UNIV. CALIFORNIA, BERKELEY, RES. & EVAL. CENT, E.PAKISTAN, 63- Lectr, California, 59- U.S.A.A.F, 43-46. Psychol. Asn; Pub. Health Asn. Evaluation of consultation in public health; role of psychology in public health; family planning and population. Publ: Method of analyzing group psychotherapy, Trans. Kans. Acad. Sci; The consultative process, Continuing Ed. Monogrs; Characteristics and utilization of midwives in rural East Pakistan, Demography, 66. Address: Public Health Education Research Project, University of California, P.O. Box 177, Ramna Dacca, E.Pakistan.

CROLL, DR. ROBERT FREDERICK, b. Evanston, Ill, Feb. 3, 34. BUSINESS ADMINISTRATION. B.Sc, Northwestern, 54; French fel, Michigan, 54-55, M.B.A, 55; D.B.A, Indiana, 68. Instr. bus. hist, Indiana, 55-59; managing dir, Motor Vehicle Indust. Res. Assocs, 60-63; personal asst. to speaker, Ill. House Rep, 63-65; ASST. PROF. bus. admin, Kansas State, 65-66; INDUST. RELS, LOYOLA (ILL), 66- Soc. Automotive Eng. Business-government relations; business history; public administration. Publ: Co-auth, Open occupancy versus forced housing under the Fourteenth Amendment, Bookmailer, 63. Address: 2332 Prairie Ave, Evanston, Ill. 60201.

CROM, DR. ROBERT LOUIS, b. Hampton, Iowa, Feb. 15, 26; m. 50; c. 4. COMMUNICATION. B.S, Iowa State, 50; M.S, N.Dak. State, 56; Univ. Grad. Coun. fel, Mich. State, 63-64, Ph.D.(commun), 67. Exten. 4-H Club agent, Iowa State Univ, summer, 47; farm serv. dir, Radio Sta. KGLO, Iowa, 50-51; info. specialist, U.S. Dept. Agr, D.C, 51-53; instr. commun, N.Dak. State, 53-57, asst. prof, 57-59, dir. commun, 53-59, asst. to pres, 59-61, 62-66, assoc. prof. commun, 62-66; ASST. PROF. TECH. JOURNALISM, IOWA STATE, 66-, DIR. ALUMNI AFFAIRS, 68-, assoc. dir, 66-68. Staff mem, commun. seminars for. nationals, Mich. State Univ-Agency Int. Develop, 61-67; faculty consult. to regional training officer, regional off, U.S. Vet. Admin, N.Dak, 65-66. U.S.N.R, 44-46. Nat. Soc. Study Commun; Asn. Ed. Journalism. Adult education via television; communication within academic organizations. Publ: Communication patterns and administrative evaluation of professions within an academic research organization, Univ. Microfilms, 67; Which comes first—image or organization, Vol. 6, No. 3 & Public consumption of science news, Vol. 6, No. 4, Search. Address: Room 242 Memorial Union, Iowa State University, Ames, Iowa 50010.

CROMWELL, PROF. RUE L(eVELLE), b. Linton, Ind, Nov. 17, 28; m. 50; c. 1. CLINICAL PSYCHOLOGY. A.B, Indiana, 50; M.A, Ohio State, 52, Ph.D.(clin. psychol), 55. Asst. prof. PSYCHOL, GEORGE PEABODY COL, 55-59, assoc. prof, 59-62, PROF, 62-; PROF. CLIN. PSYCHOL. IN PSYCHIAT, VANDERBILT, 64-, asst. clin. prof, 62-63, assoc. prof, 63-64. Consult, Vet. Admin, 63-; U.S. Off. Ed, 66- Mem. res. rev. cmt, Nat. Inst. Ment. Health, 65- Psychol. Asn. Schizophrenia; emotionally disturbed children; stress factors in myocardial infarction. Publ: Chap. 2, A social learning approach to mental retardation, In: Handbook of mental deficiency, McGraw, 63; Chap. 4, Personality evaluation, In: Mental retardation, Aldine, 67; co-auth, Schizophrenic language, In: Applied psycholinguistics, Macmillan, 68. Address: Dept. of Psychology, Vanderbilt University, Nashville, Tenn. 37203.

CRONBACH, PROF. LEE J(OSEPH), b. Fresno, Calif, Apr. 22, 16; m. 38; c. 5. EDUCATIONAL PSYCHOLOGY. A.B, Fresno State Col, 34; A.M, California, 37; Ph.D.(ed), Chicago, 40; hon. L.H.D, Yeshiva, 66. Instr. psychol, State Col. Wash, 40-46; asst. prof. ed, Chicago, 46-48; assoc. prof, Illinois, Urbana, 48-50, prof, 48-58, ed. & psychol, 58-64; ED, STANFORD, 64-67, VIDA JACKS PROF, 67- Assoc. psychologist, div. war res, California, 44-45; mem, Inst. Adv. Study, 60-61; fel, Center Adv. Study Behav. Sci, 63-64; Fulbright lectr, Univ. Tokyo, 67-68. Sci. liaison officer, Off. Naval Res, Eng, 55-56. Consult, U.S. Off. Ed, 62-64; explor. cmt, Appraisal Ed. Prog, 64-67; Carnegie Study of Ed. of Educators, 66-68. Mem. ment. health study group, Nat. Inst. Ment. Health, 53-58. Consult, U.S. War Dept, Japan, 47. Fel. AAAS; fel. Psychol. Asn.(pres, 57); Psychomet. Soc.(pres, 54); fel. Statist. Asn; Ed. Res. Asn.(pres, 65); Nat. Acad. Ed; Am. Acad. Arts & Sci; Philos. Soc. Design and use of psychological tests; research methodology; application of psychology to education. Publ: Educational psychology; Psychological tests and personnel decisions; Essentials of psychological testing. Address: School of Education, Stanford University, Stanford, Calif. 94305.

CRONEMEYER, CORA SISAM, b. Champaign, Ill, Jan. 24, 13; m. 42; c. 1. ECONOMICS. A.B, Illinois, 34; M.A, Western Reserve, 38. Dir. group work, Abraham Lincoln Center, 38-39; jr. labor economist, Nat. Resources Planning Bd, 41-42; labor economist, Bur. Labor Statistics, 46-51; SR. LABOR ECONOMIST, BUR. EMPLOY. SECURITY, 51- Statist. Asn. Agricultural labor market analysis; occupational outlook; older worker problems. Publ: Ed, Farm labor developments, 61-; co-auth, Problems involved in applying a federal minimum wage law to agricultural workers. Address: 4346 Alton Place N.W, Washington, D.C. 20016.

CRONIN, JOHN F(RANCIS), S.S, b. Glens Falls, N.Y, Oct. 4, 08. ECONOMICS. Col. Holy Cross, 23-25, hon. D.S.S, 47; Ph.D, Catholic Univ, 35. Prof. econ, St. Mary's Sem, 33-45; asst. dir. dept. soc. action, Nat. Cath. Wel-

fare Conf, 45-67; PROF. PASTORAL THEOL. & SOC. ETHICS, ST. MARY'S SEM, 67- Econ. Asn. Economic analysis and problems; Catholic social action, and principles; problems and opportunities in a democracy. Publ: Christianity and social progress, Taplinger, 65; Government in freedom, Holt, 65; The church and the workingman, Hawthorne, 65. Address: St. Mary's Seminary, 5400 Roland Ave, Baltimore, Md. 21210.

CRONIN, PROF. MARY JANE, b. Cambridge, Mass, Nov. 14, 27; m. 56; c. 4. ECONOMICS. A.B, Trinity Col, 49; M.A, Radcliffe Col, 51; George Washington, 61-67. Asst. prof. ECON, Trinity Col, 53-61; teaching fel, George Washington, 61-67; ASST. PROF, TRINITY COL.(D.C), 67- Consult, off. prog. anal, Dept. Health, Ed. & Welfare, 67- Econ. Asn; Indust. Rels. Res. Asn. Collective bargaining contracts; cost-benefit analysis of programs under Title V of the Economic Opportunity Act. Address: 109 James Dr, S.W, Vienna, Va. 22180.

CROOG, DR. SYDNEY H, b. New Haven, Conn, Dec. 18, 26; m. 53; c. 3. SOCIOLOGY. B.A, Yale, 46, jr. Sterling fel. & M.A, 47, Soc. Sci. Res. Coun. fel. & Ph.D.(sociol), 54; fel. & cert, Copenhagen, 49. Instr. sociol. & anthrop, Connecticut, 49-52; staff sociologist, Vet.Admin. Hosp, West Haven, Conn, 53; proj. dir, Russell Sage Found. proj, Children's Med. Center, Boston, Mass, 56-60; res. assoc, SCH. PUB. HEALTH, HARVARD, 59-61, asst. prof. SOCIOL, 61-67, ASSOC. PROF, 67-, lectr. soc. rels, univ, 60-65. U.S.A, 54-56, 1st Lt. Fel. Sociol. Asn; Pub. Health Asn. Medical sociology; hospital and public health organization; social psychiatry; recovery process and rehabilitation. Address: School of Public Health, Harvard University, 55 Shattuck St, Boston, Mass. 02115.

CROOK, PROF. DOROTHEA JOHANNSEN, b. Ithaca, N.Y, Oct. 14, 03; m. 35. PSYCHOLOGY. A.B, Cornell, 24; Vienna, 24-25; A.M, Clark, 27, Ph.D.(psychol), 29. Instr. psychol, Wellesley Col, 29-30; Rochester, 30-31; asst. prof, Skidmore Col, 31-34, assoc. prof, 34-45; lectr, Barnard Col, Columbia, 45; supvr. grad. students in psychol. counseling univ, 46; res. assoc, col. med, N.Y. Univ, 45-46; lectr. PSYCHOL, TUFTS, 46-48, assoc. prof, 48-53, PROF, 53-, RES. ASSOC, 46-, CHMN. DEPT, 59- AAAS; fel. Psychol. Asn; Psychomet. Soc; Soc. Res. Child Develop. Psychology of visual field; personality; quantitative study of binocular color vision. Publ: Co-auth, Studies on dark adaptation. I & II, J. Optical Soc. Am, 56; auth, Black-white relation of figure and ground in nursery school children's figure perception, Perceptual & Motor Skills, 60; Perception, Annual Rev. Psychol, 67. Address: Dept. of Psychology, Tufts University, Medford, Mass. 02155.

CROOK, PROF. FRANCES E(LIZABETH), Math, Psychol, see MORRISON, PROF. FRANCES E(LIZABETH).

CROOK, DR. MASON N(ELSON), b. Ronceverte, W.Va, Apr. 17, 04; m. 35. PSYCHOLOGY. A.B, Marietta Col, 25; A.M, Clark, 28, fel, 28-30, Ph.D. (psychol), 30. Instr, Dartmouth Col, 30-31; California, Los Angeles, 31-35; assoc. prof, Skidmore Col, 35-45; res. psychologist, off. sci. res. & develop. proj, Columbia, 44-46; RES. ASSOC. INST. PSYCHOL. RES, TUFTS, 46-, SCI. DIR, 52- AAAS; Psychol. Asn; Optical Soc. Vision; legibility; perception. Address: Institute for Psychological Research, Tufts University, Medford, Mass. 02155.

CROOK, PROF. MILTON PRICE, JR, b. Chattanooga, Tenn, Oct. 1, 19; m. 57; c. 2. POLITICAL SCIENCE. A.B, California, 50, M.A, 51, 52-55; summers, Northwestern, 51; Columbia, 62. Instr. polit. sci. & acting head dept, Lincoln (Pa), 51-52, asst. dir. summer session, 52; ASST. PROF. GOVT, TEXAS SOUTHERN, 55- U.S.A, 42-45, Sgt. AAAS; Polit. Sci. Asn; African Studies Asn. Political problems of African states; economic and political development of underdeveloped areas; political and social effects of technological change in selected countries. Address: 2320 Rosewood Ave, Houston, Tex. 77004.

CROOK, PROF. ROBERT B, b. U.S, Jan. 9, 22. PSYCHOLOGY, GUIDANCE. Ed.D.(guid), Columbia, 52. Asst. prof. group develop, Fels Group Dynamics Center, Temple, 52-53; ED, QUEENS COL.(N.Y), 53-62, ASSOC. PROF, 62- Consult, Prince George's County Cent. Sch. Dist, 55-; Baruch Sch, City Col. New York, 57-; Registered Nurses Asn, Can, 58-; Nat. Conf. Christians & Jews, 62-; North. Elec. Co. Can, 65-67; West. Elec. Co, 66-67. Psychol. Asn; Nat. Ed. Asn. Assessment of training processes or designs; leadership; individual change. Publ: Communication and group structure, J. Commun; co-auth, Assessing emerging leadership behavior in small discussion groups, J. Ed. Psychol. Address: Dept. of Education, Queens College, Flushing, N.Y. 11367.

CROOK, DR. STANLEY K(EITH), b. U.S, Sept. 19, 13; m. 62; c. 2. ECONOMICS. A.B, California, 36, fel, 38-42, Ph.D, 58. Regional economist, U.S. Off. Price Stabilization, 51-53; assoc. prof. world bus, San Francisco State Col, 53-58; dir. econ. & bus. res. develop, State Dept. Commerce & Econ. Develop, Wash, 58-59; lectr. econ, California, 60-61; consult, U.S. Small Bus. Admin, 61-62, dir, off. econ. adv, 62-63; asst. adminstr. area & indust. econ, bus. defense serv. admin, U.S. DEPT. COMMERCE, 63-64, DIR. DOMESTIC & INT. BUS. & ECON, LOS ANGELES FIELD OFF, 64- Int. Economist, Tidewater Oil Corp, 55-58; lectr, Seattle, 58-59; dep. cmnr, Calif. Econ. Develop. Agency, 59-61. U.S.N, 42-46, Res, 46-, Comdr. AAAS; Econ. Asn; Regional Sci. Asn. Problems of regional economic growth and development; conditions influencing the survival and development of small business units in industrial environments and regional contexts. Publ: Right to work: historical review of the evolution of the concept and related ideas. Address: 245 Waterview, Playa Del Rey, Calif. 90291.

CROOK, PROF. WILFRID H(ARRIS), Econ, see 9th ed, Soc. & Behav. Vols, deceased 63.

CROOKS, DR. EDWIN WILLIAM, b. Parkersburg, W.Va, July 29, 19; m. 52; c. 3. BUSINESS ADMINISTRATION. B.S, West Virginia, 41, M.A, 42; M.B.A, Harvard, 47; D.B.A, Indiana, 59. Asst. to pres, Halle Bros. Co, 47-54; asst. prof. mkt, West Virginia, 54-56, assoc. prof, mkt. & mgt, 59-65, prof. mkt, 65-66, asst. dean sch. bus, 61-66; PROF. BUS. ADMIN. & DEAN SOUTHEAST CAMPUS, INDIANA, 66- U.S.N.R, 42-67, Lt. Comdr. Mkt. Asn. Retailing management, including procurement, credit, selling and personnel management. Publ: Buying practices of independent retailers in W.Va, 10/63 & Retail credit policies in W.Va, 12/65, W.Va. Univ. Bur. Bus. Res; The case for concentration of purchases, J. Retailing, summer 66. Address: Dept. of Business Administration, Indiana University, Southeastern Campus, Jeffersonville, Ind. 47130.

CROOKS, PROF. WILLIAM R(AMSDEN), b. Modesto, Calif. Sept. 3, 12; m. 42; c. 3. PSYCHOLOGY. B.A, California, 37; M.A, Connecticut, 39; Ph.D.(ed. psychol), Minnesota, 52. Asst. prof. psychol, Suffolk, 39-41; indust. researcher & consult, 41-42, 46-47; from assoc. prof. to PROF. PSYCHOL. & CHMN. DEPT, OREGON STATE, 47-49, 50- Personnel consult, Life Off. Mgt. Asn, 41; Edwin Shields Hewitt & Assocs, 46-47. U.S.N, 42-46, Comdr. Psychol. Asn. Student personnel prediction; test construction, validation. Publ: Item validities of Otis selfadministering tests of mental abilities for colleges, J. Exp. Ed; Life office job evaluation plans, Report, Life Off. Mgt. Asn. Address: Dept. of Psychology, Oregon State University, Corvallis, Ore. 97331.

CROOKSTON, DR. BURNS B(ALLANTYNE), b. Logan, Utah, Dec. 6, 22; m. 52; c. 3. COUNSELING PSYCHOLOGY. B.S, Utah State, 45; California, 45-46; A.M, Columbia, 51, Ed.D, 53. Asst. dir. correspondence study, Utah State, 44-45; sales mgr, L.G. Balfour Co, 48-50; residence hall counsr, Columbia, 51-52, asst. guid, 52, lectr. psychol, 52-53; asst. prof. ed. psychol, Utah, 54-60, assoc. prof, 61-62, asst. dean students, 54-62; MEM. GRAD. FACULTY PSYCHOL. & DEAN STUDENTS, COLORADO STATE, 62- Lectr, Maine, 58; assoc, Inst. Appl. Behav. Sci, Nat. Training Labs, 60-, consult, 58-62; dean, Inter-Mt. Lab. Group Develop, 61; summer asst. camp dir, Boy Scouts Am, 45. Consult, Vet. Admin. Hosp, 59-60; cancer control div, U.S. Pub. Health Serv, 65; Rocky Mt. Mgt. Asn, 65; U.S. Int. Revenue Serv, 65; training consult, VISTA, 66; Indian ed. proj, Arizona State, 66. U.S.A, 43-44. Psychol. Asn; Personnel & Guid. Asn; Adult Ed. Asn. Higher education; sensitivity training; management development. Publ: Co-auth, Student personnel work in colleges and universities, In: Encyclopedia of educational research; National versus local autonomy: some problems for administration, Ed. Record; co-auth, An approach to planned change in a college setting, Personnel & Guid. J. Address: 213 Student Services Bldg, Colorado State University, Ft. Collins, Colo. 80521.

CROSBY, G(EORGE) REGINALD, b. Boston, Mass, Dec. 8, 99; m. 28; c. 2. ECONOMICS. A.B, Harvard Col, 22, summer, 27; A.M, Columbia, 26; Grad. Sch. U.S. Dept. Agr, 35-36; Southeastern, 35-37. Asst. secy, Am. Inst. Banking, New York, 23-24; instr. econ, Lehigh, 24-25; sect. mgr, Lord & Taylor, New York, 25-26; instr. contemporary civilization, Columbia, 26-28; asst. prof. econ, Dartmouth Col, 28-34; econ. analyst, President's Cmt. Econ. Security, 34-35; spec. agent & statistician, U.S. Dept. Commerce, 35-36; chmn. personnel cmt, Soc. Security Bd, 36-37; asst. regional rep, Bur. Old Age & Survivors Ins, 37-43, 44-50; dir. wage stabilization, War Labor Bd, 43-44; sr. liaison officer, BUR. OLD AGE & SURVIVORS INS, 50-54, ASST. REGIONAL REP, 54-; LECTR. ECON, WESTERN RESERVE, 60- Dir. & sales rep, New Eng. Panel Co, 29. U.S.A, 18. Econ. Asn. Social security; interviewing. Address: 20330 Marian Lane, Rocky River, Ohio 44116.

CROSBY, DR. JOHN ALBERT, b. Chicago, Ill, Feb. 2, 21; m. 51; c. 4. GEOGRAPHY, GEOLOGY. B.S, Chicago, 43; M.S, Washington, 50, Ph.D. (geog), 59. Instr. geog. & geol, East. Wash. Col. Ed, 51; lectr. geog, Toronto, 53-56; asst. prof. GEOG. & GEOL, FRESNO STATE COL, 56-60, ASSOC. PROF, 60- Lectr, Nat. Defense Ed. Act Geog. Inst, Calif, 65-67. Consult, Ginn & Co, Can, 53-56; J.M. Dent & Sons, 53-56; climat. lab. in N.J, Hopkins, 55; Nevada Sch. Syst, 66-67; Tulare County Sch. Syst, Calif, 66-67. U.S.A.A.F, 43-46, Sgt. AAAS; Asn. Am. Geog. Cartography; urban geography. Publ: Two current trends in cartography, Can. Geogr; Analyzing metropolitan dominance, Soc. Forces; Geographical background of Seattle's wholesale trade territory, Calif. Geogr. Address: Dept. of Geography, Fresno State College, Fresno, Calif. 93726.

CROSBY, DR. RICHARD C(OLLIER), b. Washington, D.C, Dec. 11, 09; m. 33; c. 2. PSYCHOLOGY. B.S, Cornell, 31; M.S, 37, Ph.D.(ed. psychol), 41; Stanford, 39. Instr. ed, Miami (Ohio), 41-42, asst. prof, 42-44, prof. psychol. & dir. student counseling, 44-49; mem. staff, Ala. Ed. Found, 49-52; ASSOC. DIR, INDIAN SPRINGS SCH, 52- Psychol. Asn; Personnel & Guid. Asn. Interest measurement; student achievement; measurement of interest and ability. Address: Indian Springs School, Helena, Ala. 35080.

CROSLAND, PROF. HAROLD R(ANDOLPH), b. Blackville, S.C, Feb. 19, 93; m. 44; c. 2. PSYCHOLOGY. A.B, South Carolina, 13; fel, Clark, 13-16, A.M, 14, Ph.D.(exp. psychol), 16. Instr. PSYCHOL, Minnesota, 16-17; asst. prof, Arkansas, 17-18; Pittsburgh, 18-20; OREGON, 20-25, assoc. prof, 25-58, EMER. ASSOC. PROF, 58- Fel. Psychol. Asn. Tachistoscopic studies of position and other effects in reports of letters of alphabet; inefficient reading; guilt detection; forgetting; proofreader's illusions; history of conceptions of sense-perceptions. Address: 195 Van Ness Ave, Ashland, Ore. 97520.

CROSS, DR. CLAUDE B(YRAM), b. St. George, Kans, Sept. 30, 19; m. 44; c. 2. POLITICAL SCIENCE. B.A, Okla. State, 40, M.A, 49; fel, Iowa, 51-53, Ph.D, 53. Acting instr. polit. sci, Washington State, 53-55; vis. asst. prof, Idaho, 55-56; mem. for. serv, U.S. INFO. AGENCY, 56-62, supvry. employ. develop. officer & chief training aids & mat. br, TRAINING DIV, 62-66, SUPVRY. EMPLOYEE DEVELOP. OFFICER, 62-, ADMIN. OFFICER, 67-, chief admin. br, 66-67. Summer vis. prof, Col. Idaho, 55. U.S.M.C, 40-46, Maj. International organization with reference to regional structures; aspects of administrative law; new concepts in positive democracy. Publ: Removal power of the President and the test of responsibility, Law Quart, Cornell; Question of collective security; Recognition of international responsibility. Address: 4742 First St. N, Arlington, Va. 22203.

CROSS, PROF. HENRY A(LLEN), b. Oklahoma City, Okla, Mar. 11, 27; m. 48; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Bethany Nazarene Col, 49; M.S, Oklahoma, 51; Ph.D, Ohio State, 59. Asst. prof. PSYCHOL, Olivet Col, 54-56; proj. assoc, Ohio State, 57-58, asst. instr, 58-59; proj. assoc, Wis-

consin, 59-60; asst. prof, Northern Illinois, 60-61; from asst. prof. to assoc. prof, Okla. State, 61-64; assoc. prof, Tex. Tech. Col, 64-66; PROF. & CHMN. DEPT, WITTENBERG, 66- U.S.N, 45-46. Psychol. Asn. Primary stimulus generalization; social behavior in primates, and experimental analysis of animal learning. Publ: Co-auth, CS termination and the response strength acquired by elements of a stimulus complex: J. Exp. Psychol. and Effects of large and small rewards on maze performance after different prior experiences with reward amounts, J. Comp. & Physiol. Psychol; Inhibition in the learning of a visual habit, Perceptual Motor Skills. Address: Dept. of Psychology, Wittenberg University, Springfield, Ohio. 45501.

CROSS, DR. HERBERT JAMES, b. Ashland, Va, Mar. 18, 34; m. 54; c. 2. PSYCHOLOGY. B.A, Randolph-Macon Col, 58; M.A, Richmond, 60; fel, State Univ. N.Y, 63-64; Ph.D.(psychol), Syracuse, 65. Instr. PSYCHOL, Richmond, 59-61; ASST. PROF, CONNECTICUT, 65- Res. consult, youth develop. center, Syracuse, 65-67. U.S.A, 54-56, Res, 57-60, S/Sgt. Psychol. Asn. Parental influence on children's personality development; cognitive development. Publ: Co-auth, Further relationship between the digit symbol scale and anxiety, 62 & auth, Outcome of psychotherapy: a selected analysis of research, 64, J. Consult. Psychol; Relation of parental training conditions to conceptual level in adolescent boys, J. Personality, 66. Address: Dept. of Psychology, University of Connecticut, Storrs, Conn. 06268.

CROSS, DR. JAMES S(HORTEN), b. Scranton, Pa, Feb. 6, 17. ECONOMICS. A.B, Pa. State Col, 38, M.A, 40; Ph.D, Ohio State, 47. Asst. econ. & bus. orgn, Ohio State, 40-42; asst. prof. econ, Pa. State Col, 45-47; mkt, Mass. Inst. Tech, 47-53; MGR. ECON. DEPT, SUN OIL CO, 53- With War Prod. Bd, 42. Econ. Asn; Statist. Asn; Mkt. Asn. Industrial marketing; statistics. Publ: Co-auth, Industrial marketing. Address: Sun Oil Co, 1608 Walnut St, Philadelphia, Pa. 19101.

CROSS, DR. K(ATHRYN) PATRICIA, b. Normal, Ill, Mar. 17, 26. PSYCHOLOGY. B.S, Ill. State Norm. Univ, 48; A.M, Illinois, 51, U.S. Pub. Health Serv. fel, 58, Ph.D.(psychol), 58. Asst, Illinois, 49-53, asst. dean women, 53-59; dean women, Cornell, 59-60, dean students, 60-63; prog. dir. instnl. res. prog, ED. TESTING SERV, 63-65, SR. PROG. DIR. COL. & UNIV. PROGS, 65-; COORDINATOR DEVELOP, CENTER RES. & DEVELOP. HIGHER ED, CALIFORNIA, BERKELEY, 66- Psychol. Asn. Educational and personality research. Address: Educational Testing Service, 1947 Center St, Berkeley, Calif. 94704.

CROSS, DR. ORRIN H(ARTSHORN), b. Erie, Pa, Jan. 27, 14; m. 51. PSYCHOLOGY. A.B, Clark, 42; M.S, Minnesota, 45; Ph.D, Pittsburgh, 53. Asst. prof. PSYCHOL, Alabama, 47-51; instr, WEST VIRGINIA, 51-53, asst. prof, 53-57, ASSOC. PROF, 57- Lectr, Pittsburgh, 48-49. Psychol. Asn. Psychological test construction; social class structure; personality. Publ: Braille edition of the Minnesota personality inventory for use with the blind, J. Appl. Psychol; Study of faking on the Kuder preference record, Ed. & Psychol. Measurement. Address: Dept. of Psychology, West Virginia University, Morgantown, W.Va. 26506.

CROSS, PROF. WILLIAM CARL, b. Edgemont, Ark, Sept. 20, 12; m. 44; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Kans. State Col. Pittsburg, 41; Ed.D, Utah, 52. Teacher & prin, pub. sch, Kans, 32-38; teacher, jr. high sch, 38-42; training officer, Vet. Admin, Utah, 46-48; counsr. & instr, Col. East. Utah, 48-52; asst. supt. & dir. sec. ed, Carbon County Sch. Dist, Utah, 52-59; assoc. prof. & head dept. guid, NEW MEXICO STATE, 59-62, dir. guid. center, 59-66, prof. guid. & psychol. serv. & head dept, 62-66, PROF. ED. PSYCHOL, 66- U.S.A.A.F, 42-46, 1st Lt. Personnel & Guid. Asn; Psychol. Asn. The processes of counseling for academic, vocational and personal problems, especially pertaining to college and junior college students; counselor education procedures, state and national certification standards. Address: New Mexico State University College of Education, Las Cruces, N.Mex. 88001.

CROSSER, PROF. PAUL, b. Windau, Latvia, Aug. 11, 02; nat; m. 43. ECONOMICS. Dr. Econ, Berlin, 32; Ph.D, Columbia, 42. Economist, housing bank, German Govt, 30-33; tech. umemploy. res. proj, U.S. Govt, 36-39; econ. adv. pub. sch. financing, teachers col, Columbia, 39-41; PROF. ECON, ADELPHI, 56- Lectr, City Col. New York, 39- Civilian econ. adv, U.S. War Dept, 41-45. AAAS; Econ. Asn; Philos. Asn; Brit. Econ. Hist. Soc; Royal Inst. Philos. Epistemology and methodology of social sciences; history of ideas in the course of economic history. Publ: Ideologies and American labor, Oxford Univ, 41; Economic fictions, a critique of subjectivism; State capitalism in the economy of the United States. Address: Dept. of Economics, Adelphi University, Garden City, N.Y. 11530.

CROSSLAND, DR. FRED E(UGENE), b. Snydertown, Pa, Oct. 3, 20; m. 47; c. 2. POLITICAL SCIENCE. A.B, Brooklyn Col, 42; A.M, N.Y. Univ, 47, Ph.D.(hist. & govt), 53. Instr. hist. col. arts & sci, Wash. Sq. Col, N.Y. Univ, 47, asst. prof. polit. sci, 47-62, assoc. prof, 62-64, dir. admissions, 59-62, dean admissions, 62-64; PROG. OFFICER ED. & RES. FORD FOUND, 64- Sig.C, U.S.A, 42-45. Hist. Asn. Basic education in the social sciences at the collegiate level; political philosophy; local government and administration. Publ: Introduction to political principles and practices; British Labor Party in the general elections, 1900-1950. Address: Ford Foundation, 320 E. 43rd St, New York, N.Y. 10017.

CROSSLAND, DR. PETER N, b. Cleveland, Ohio, May 8, 37; m. 62; c. 2. POLITICAL SCIENCE. B.A, Miami (Ohio), 59, M.A, 62; B.D, Yale, 63; Ph.D.(polit. sci), Duke, 66. Vis. lectr. POLIT. SCI, Ohio Wesleyan, 65-66; ASST. PROF, KENT STATE, 66- Polit. Sci. Asn. Party politics and elections; political behavior; political theory; public policy. Address: Dept. of Political Science, Kent State University, Kent, Ohio 44240.

CROSSMAN, DR. EDWARD KOONCE, b. Knoxville, Tenn, Nov. 13, 38; m. 66. EXPERIMENTAL PSYCHOLOGY. B.A, Depauw, 60; M.A, Arizona State, 63, Ph.D.(psychol), 66. RES. PSYCHOLOGIST, NEUROBIOL. BR, AMES RES. CENTER, NASA, 63- Part time instr, San Jose City Col, 66-67; part time asst. prof, San Jose State Col, 67. AAAS; Psychol. Asn. Operant conditioning; schedules of reinforcement; animal psychophysics; effects of unusual environments on behavior; space factors and behavior; comparative psychology; conditioned reinforcement. Publ: Approaches to the study of animal behavior, Sci. Teacher, 66; co-auth, A comparison of two types of extinction following fixed-ratio training, 66 & auth, Pause relationships in multiple and chained fixed-ratio schedules, 68, J. Exp. Anal. of Behav. Address: NASA Ames Research Center N-239, Moffett Field, Calif. 94035.

CROSSMON, PROF. BRADFORD DEAN, b. New Milford, Conn, Nov. 24, 14; m. 40; c. 4. ECONOMICS, MANAGEMENT. B.S, Connecticut, 37, M.S, 43; M.P.A, Harvard, 49, D.P.A.(econ. & pub. policy), 63. Instr. farm mgt, Connecticut, 38-39, agr. planning, 40-42, asst. prof. agr. econ, 42-45; instr, Rhode Island, 39-40; chief farm & home mgt. sect, 11 northeast. states, Farmers Home Admin, U.S. Dept. Agr, 45-47; assoc. prof. agr. econ, Massachusetts, 48-51; res. leader New Eng. mgt. proj, Harvard, 51-52; assoc. prof. res. prod. econ, MASSACHUSETTS, 52-56, prof. in charge prod. econ. sect, 56-63, PROF. MKT. MGT, 63- Vis. scientist & res. consult, agr. exp. sta, Puerto Rico, 63-64, summers 65 & 66, vis. prof, col. agr, Mayaguez campus, summer 66 & 67; Ford & Rockefeller Funds Agr. Develop. Coun. res. grant, to study agr. mkt. in Malaysia, spring 67. Econ. Asn; Agr. Econ. Asn. Production and marketing adjustments of representative agricultural firms; farm labor performance by type of worker. Publ: Research into management problems of corporate farming, J. Farm Econ, 12/53; co-auth, Production adjustments on Massachusetts farms with tobacco allotments, exp. sta. bull. 529, 5/62 & Massachusetts dairy farm adjustments—an economic analysis, exp. sta. bull. 528, 12/63, Univ. Massachusetts. Address: 235 Draper Hall, University of Massachusetts, Amherst, Mass. 01002.

CROSSWHITE, DR. WILLIAM M(ACK), b. West Chester, Pa, July 18, 30; m. 54; c. 2. AGRICULTURAL ECONOMICS. B.S, Berea Col, 53; M.S, Mich. State, 57, Ph.D, 60. Asst, Mich. State, 55-59, asst. prof. agr. econ, Delaware, 60-66, ASSOC. PROF, 66-67; ECON. N.C. STATE, 67- U.S.N, 48-49, 53-55, Res, 55-, Lt. Comdr. Farm econ. Asn. Land and water resources economics, especially water quality control and regional economics. Publ: Part-time farming; part-time jobs, In: A place to live, Yearbook of Agr, 63; co-auth, Suburban development in metropolitan Northern Delaware, 66 & Selecting feed handling methods, 67, Agr. Exp. Sta, Delaware. Address: Dept. of Economics, North Carolina State University, Raleigh, N.C. 27607.

CROTEAU, PROF. JOHN T(OUGAS), b. Holbrook, Mass, Mar. 10, 10; m. 36. ECONOMICS. A.B, Holy Cross Col, 31; M.A, Clark, 32, fel. & Ph.D.(econ), 35; hon. LL.D, St. Joseph's, 56. Prof. econ. & sociol, Prince of Wales Col. & St. Dunstan's Col, 33-45; assoc. prof. ECON, Xavier, 46-47; Catholic Univ, 47-53; NOTRE DAME, 53-56, PROF, 56- Managing dir, P.E.I. Credit Union League, 46; proj. dir. credit union use by low income groups, Soc. Security Admin, 62-63. Consult, Bur. Fed. Credit Unions, 56; Nat. Credit Union Mgt. Asn, 58-67. Am. Econ. Asn; Finance Asn; Agr. Hist. Soc; Can. Polit. Sci. Asn; Royal Econ. Soc. Credit unions; cooperatives. Publ: Federal credit union; Cradled in the waves: the story of a people's co-operative achievement in economic betterment on Prince Edward Island, Canada; The economics of the credit union, Wayne State, 63. Address: 124 N. Eddy St, South Bend, Ind. 46617.

CROTTY, DR. WILLIAM J, b. West Somerville, Mass, Apr. 14, 36; m. 59; c. 3. POLITICAL SCIENCE. A.B, Massachusetts, 58; M.A. & Ph.D.(polit. sci), North Carolina, 63. ASST. PROF. POLIT. SCI, Georgia, 63-66; NORTHWESTERN, 66- Center Adv. Study Ed. Admin. fel, Oregon, 65-66. Polit. Sci. Asn. Political parties; electoral and comparative political behavior; research methodology. Publ: Co-auth, Political parties and political behavior, 66 & Approaches to the study of party organization, 68, Allyn & Bacon; auth, A methodological primer for political scientists, Rand McNally, 68. Address: Dept. of Political Science, Northwestern University, Evanston, Ill. 60201.

CROUCH, DR. ARCHIE R, b. Veblen, S.Dak, May 7, 09; m. 36; c. 4. SOCIOLOGY. B.A, Jamestown Col, 30, Hon. D.D, 49; B.D, Princeton, 33; M.Sc, Cornell, 51; Ph.D.(sociol), Southern California, 54. Pastor, Morro Bay Community Church, Calif, 34-36; teacher Eng, Riverbend Mid. Sch, China, 36-41; eng. secy, Church of Christ, 44-46; west. area secy, Nat. Coun. Presby. Men, Calif, 49-50; univ. pastor, Westminster House, 50-52; west. area secy, Presby. Bd. For. Missions, 52-61; SECY. COMMUN, CMN. ECUMENICAL MISSION & RELS, UNITED PRESBY. CHURCH, 61- Sociol. Asn. Sociology of religion. Publ: Rising through the dust; Eye of the storm; co-auth, The missionary, World Horizons, 65. Address: 325 Murray Ave, Englewood, N.J. 07631.

CROUCH, PROF. WINSTON W(INFORD), b. Vandalia, Ill, July 4, 07; m. 37; c. 1. POLITICAL SCIENCE. A.B, Pomona Col, 29; A.M, Claremont Col, 30; Ph.D, California, 33. From instr. to PROF. POLIT. SCI, CALIFORNIA, LOS ANGELES, 36-, chmn. dept, 56-59, dir. bur. govt. res, 48-62. Fulbright scholar, India, 54-55. Trustee, John R. Haynes Found, 53- Mem, Los Angeles County Civil Serv. Cmn, 47-54, 55-61; Los Angeles City Reorgn. Cmn, 52; State Legis. Interim Cmt, 52-53; Legis. Adv. Cmn, 57-61. U.S.N.R, 43-46, Comdr. Polit. Sci. Asn; Soc. Publ. Admin; Indust. Rels. Res. Asn. Public administration; state and local government; comparative administration. Publ: Initiative and referendum; co-auth, Southern California Metropolis, Univ. California, 64; California government and politics, Prentice-Hall, 67. Address: 1035 Anoka Place, Pacific Palisades, Calif. 90272.

CROUSE, DR. JAMES H, b. York, Pa, Aug. 13, 38; m. 61; c. 1. PSYCHOLOGY. A.B, Col. William & Mary, 60; M.A, Northwestern, 63, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, Washington & Lee, 65-66; STATE UNIV. N.Y. BINGHAMTON, 66- Psychol. Asn. Verbal learning and retention. Address: Dept. of Psychology, State University of New York at Binghamton, Binghamton, N.Y. 13901.

CROVITZ, DR. HERBERT F, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

CROW, ELEANOR G(ISH), b. Lincoln, Nebr, Oct. 29, 17; m. 42; c. 2. PSYCHOLOGY, STATISTICS. B.A, Oberlin Col, 38; M.A, Wisconsin, 40; Chicago, 41-42; summers, California, 47-48, Colorado, 54-61. Statist. asst, Chicago, 41, computer, metall. proj, 42; statistician, Davee, Koehnlein &

Keating, 41-42; mathematician & computer, Carnegie Inst. Dept. Terrestrial Magnetism, 42-44; teacher, pub. schs, 44-45; statistician, Dr. Kuder, 45-46; U.S. Naval Ord. Test Sta, 46-49, 53-55; psychologist, Colorado, 55-57; Mendota Res. Group, 60-61; CIVIL RIGHTS SPECIALIST & DIR. RES. & ED. CIVIL RIGHTS, COLO. CIVIL RIGHTS CMN, DENVER, 65- Lab. asst, Chicago City Cols, 41. Asn. Intergroup Rels. Officials. Application of statistics to problems in exterior ballistics and education; social psychology; socialization; women's roles; civil rights; discrimination and prejudice in housing; employment and testing. Publ: Colorado Civil Rights Commission activities report 1964-65, 66. Address: 605 20th St, Boulder, Colo. 80302.

CROW, DR. JOHN EDWARD, b. Seattle, Wash, Sept. 17, 34; m. 59; c. 2. POLITICAL SCIENCE. B.A, Washington (Seattle), 57, Ph.D.(polit. sci), 65; M.A, Chicago, 58. ASST. PROF. polit. sci, Oregon State, 63-64; Washington (Seattle), 64-66; GOVT, ARIZONA, 66- Asst. prof, Lewis & Clark Col, summer, 64. Consult, polit. ed. dept, Ore. Am. Fed. Labor-Cong. Indust. Orgn, 64; President's Cmt. Equal Opportunity, 65; Off. Career Develop, U.S. Civil Serv. Cmn, 66; contract res. assoc, Coun. Orgn. Ariz. State Govt, 68. U.S.A, 54-55. Polit. Sci. Asn; Law & Society Asn. General American politics and political processes, including opinion formation, legislation and judicial studies. Publ: Race, poverty and the Negro: Arizona in the national context, Univ. Arizona Inst. Govt. Res, 68; Subterranean politics: a judge is chosen, J. Pub. Law, 63; Public opinion and cold warfare, Hartwick Rev, 68. Address: Dept. of Government, University of Arizona, Tucson, Ariz. 85716.

CROW, DR. LESTER D, b. Beach City, Ohio, Mar. 31, 97; m. 27. EDUCATIONAL PSYCHOLOGY. A.B, Ohio, 23; M.A, N.Y. Univ, 24, Ph.D.(ed. psychol), 27. Prin, high schs, Ohio, 18-22; teacher, N.Y, 24-26; prof. ed, Mary Washington Col, Virginia, 27-28; asst. prof, Lehigh, 28-29; dir. instr, Pelman Inst. Am, 29-32; mem. staff, ed, BROOKLYN COL, 32-46, asst. prof. & chmn. dept, 46-49, dep. chmn. dept, 49-50, assoc. prof, 49-56, prof, 56-67, EMER. PROF. ED, 67- Mem. cmn. teacher ed. prog, U.S. Dept. Army, Japan, 50-51. Psychol. Asn; Personnel & Guid. Asn; N.Y. Acad. Sci; fel. Int. Inst. Arts & Letters. Mental hygiene; guidance. Publ: Understanding interrelations in nursing; Child development and adjustment; Psychology of human adjustment, 67. Address: 5300 Washington St, Hollywood, Fla. 33021.

CROW, PROF. ROBERT P, b. San Bernardino, Calif, May 5, 19; m. 41; c. 2. POLITICAL SCIENCE. B.S, Maryland, 61, M.A, 66. Prof. commun. & head dept, Air Univ, 52-57; asst, Joint Chief of Staff & Congressional Matters, Hq, U.S. Air Force, 61-65; PROF. AEROSPACE STUDIES & HEAD DEPT, GEORGIA, 65- U.S.A.F, 35-65, Col. Polit. Sci. Asn. Committees of Congress and their staffs, especially the qualification and use of the staff; teaching of the art of listening. Address: 125 Valleywood Dr, Athens, Ga. 30601.

CROW, PROF. WAYMAN J(OSEPH), b. Waterbury, Conn, June 29, 23; m. 48; c. 1. PSYCHOLOGY. B.A, Colorado, 48, M.A, 51, Ph.D.(psychol), 54. Res. assoc. psychol. behav. res. lab, Colorado, 54-57; asst. prof, San Diego State Col, 57-60, assoc. prof, 60-65; ASSOC. DIR, WEST. BEHAV. SCIS. INST, 60-, dir. res, 59-60. U.S.N.R, 41-45, Res, 45-52, Ens; Distinguished Flying Cross; Air Medal with Oak Leaf Cluster. Social processes; simulation; human relations. Address: Western Behavioral Sciences Institute, La Jolla, Calif. 92037.

CROW, WILLIAM C(ECIL), b. Oneonta, Ala, Oct. 4, 04; m. 35; c. 1. ECONOMICS, MARKETING. A.B, Maryville Col, 24; A.M, Chicago, 29. Asst. prof. econ, Ala. Polytech. Inst, 30-35; economist, bur. agr. econ, U.S. Dept. Agr, 35-42; chief transportation & warehousing br, War Food Admin, 42-43; dir. mkt. facilities br. & dep. asst. admin. food distribution, 44-45; mkt. & facilities res. br, U.S. DEPT. AGR, 46-53, DIR. TRANSPORTATION & FACILITIES RES. DIV. & LIAISON OFFICER STATE DEPT. AGR, AGR. MKT. SERV, 53- Chevalier de l'Ordre du Merite Agricole, Rep. France. Agr. Econ. Asn. Food distribution; transportation; warehousing. Address: 1258 N. Buchanan St, Arlington, Va. 22205.

CROWDER, DR. EDWARD T(OMLIN), b. Springfield, Ill, Mar. 20, 10; m. 41; c. 2. ECONOMICS, ECONOMIC STATISTICS. A.B, Pittsburgh, 31; fel. & M.A, N.Y. Univ, 34, Ph.D.(econ), 42. From asst. to instr. econ, N.Y. Univ, 35-39; instr, Rutgers, 39-40; economist, U.S. BUR. BUDGET, 40-62, assoc. clearance officer, 62-65, ASST. DIR. CLEARANCE OPERS, OFF. STATIST. STANDARDS, 65- Mem. faculty, North. Va. Center, Univ. Virginia, 58- Econ. Asn; Statist. Asn. Development of government statistical programs and development and application of statistical standards in economic fields. Publ: Co-auth, Government statistics for business use; Economic behavior; auth, Centralized internal control of data collection by federal agencies, J. Am. Statist. Asn. Address: 6312 Wiscassett Rd, Washington, D.C. 20016.

CROWDER, DR. ROBERT G(EORGE), b. Waterloo, Iowa, Sept. 16, 39; m. 62. PSYCHOLOGY. B.A, Michigan, 60, Ph.D.(psychol), 65; Bordeaux, 60-61. ASST. PROF. PSYCHOL, YALE, 65- Psychol. Asn. Human verbal learning and memory, particularly short term retention and information processing; the relation of memory theory to general behavior theory. Publ: Short-term memory for words with a perceptual-motor interpolated activity, J. Verbal Learning & Verbal Behavior, 8/67; Proactive and retroactive inhibition in the retention of a T-maze habit in rats, J. Exp. Psychol, 67; Reciprocity of retention and interpolated-task scores in short-term memory, Perceptual & Motor Skills, 67. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06510.

CROWDER, PROF. WALTER F(REDERICK), b. Bethany, Ill, Nov. 25, 03. MARKETING, ECONOMICS. B.S, Illinois, 26, M.S, 29; Ph.D, Iowa, 32. Assoc. econ, Iowa, 32-36; chief econ. analyst, bur. for. & domestic commerce, U.S. Dept. Commerce, 36-45, chief distribution div, 41-45; ed-in-chief, Indust. Distribution, McGraw Hill Pub. Co, 45-66; PROF. MKT. & CHMN. DEPT, PACE COL, 66- Lectr, George Washington, 38-42. Ed, Surv. Current Bus, 37-38. Mkt. Asn; Econ. Asn; Statist. Asn. Distribution policies; structure and concentration of American industry; marketing management; industrial marketing. Publ: Methods of statistical analysis; Structure of industry; Government statistics for business use. Address: Indian Waters Dr, New Canaan, Conn. 06840.

CROWE, DR. CHARLES, U.S. Soc. & Intellectual Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CROWELL, DR. DAVID H, b. Trenton, N.J, July 5, 19; m. 47; c. 4. PSYCHOLOGY. B.A, Drew, 46; U.S. Pub. Health Serv. grant, Iowa, 48-49, Ph.D. (clin. psychol), 50. Psychol. intern, Children's Hosp, Univ. Iowa, 48-49; asst, psychol. clin, Hawaii, 50-53, assoc. prof. psychol, 53-58, chmn. dept, 57-58; asst. prof, child welfare res. sta, Iowa, 58-59; assoc. prof. & chmn. dept, HAWAII, 59-60, PROF. PSYCHOL. & DIR. NEWBORN PSYCHOL. RES. LAB, 60- Vis. fel. pediat. & psychiat, Yale, 66-67; Nat. Inst. Child Health & Human Develop, 67-68. Ord.C, 41-42, 1st Lt. AAAS; Asn. Psychophysiol. Study Sleep; Soc. Psychophysiol. Res; Psychol. Asn; Soc. Res. Child Develop. Infant responsiveness, psychophysiology, behavior and development. Publ: Galvanic skin reflex in newborn humans, Science; co-auth, Arousal level in neonates and olds infants under continuous auditory stimulation. Address: University of Hawaii, 2538 The Mall, Snyder 308, Honolulu, Hawaii 96822.

CROWIN, DR. ARTHUR F, Latin Am. Hist, Soc. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CROWLEY, PROF. DANIEL J, b. Peoria, Ill, Nov. 27, 21; m. 58; c. 3. CULTURAL ANTHROPOLOGY. A.B, Northwestern, 43, Ph.D.(anthrop), 56; M.A, Bradley, 48. Instr. hist. of art, Bradley, 48-50; tutor anthrop, Univ. Col, B.W.I, 53-56; instr, Northwestern, 56-57; res. assoc, 57-58; asst. prof. sociol, Notre Dame, 58-61; ANTHROP. & ART, CALIFORNIA, DAVIS, 61-62, assoc. prof, 62-67, PROF, 67-, CHMN. DEPT. ANTHROP, 66- Ford Found. for. area training fel, 59-61; Univ. Calif. Humanities Inst. fel, summer, 67. Anthrop. Asn; Soc. Ethnomusicol; Soc. Aesthetics; African Studies Asn; Royal Anthrop. Inst. Gt. Brit. Art, folklore and music of African and African-derived cultures; Chokwe, Luena of Congo, Angola, Makonde-Mawia of Tanganyika; Caribbean Creole cultures; multicultural societies. Publ: I could talk old-story good: creativity in Bahamian folklore, Univ. California, 66; Plural and differential acculturation in Trinidad, Am. Anthrop; Toward a definition of calypso, Ethnomusicol. Address: Dept. of Anthropology, University of California, Davis, Calif. 95616.

CROWLEY, DR. DAVID E(SMOND), b. Boston, Mass, Dec. 23, 38; m. 65. PSYCHOLOGY. B.A, Middlebury Col, 61; M.A, Vermont, 63; Ph.D.(psychol), Princeton, 65. Vis. fel. sensory physiol, Princeton, 65-66; ASST. PROF. PSYCHOL, MIDDLEBURY COL, 66- Prin. investr, Nat. Insts. Health res. grant, 67-70. Acoustical Soc; Psychol. Asn. Auditory neurophysiology; functions of lower auditory centers; computer simulation of neural processes; computer processing of electrophysiological data. Publ: Auditory responses in the alligator lizard, 11: 135-143 & Cochlear potentials in the albino rat, 5: 307-316, J. Auditory Res; Development of cochlear functions in the ear of the infant rat, J. Comp. Physiol. Psychol, 22: 427-432. Address: Dept. of Psychology, Middlebury College, Middlebury, Vt. 05753.

CROWLEY, DR. FRANCIS J(OSEPH), b. Washington, D.C, May 15, 22; m. 51; c. 8. PSYCHOLOGY. B.S, Fordham, 43, M.S, 49, Ph.D, 55. Teacher, New York Bd. Ed, 47-54; lectr. ED. PSYCHOL, SCH. ED, FORDHAM, 49-54, instr, 54-55, asst. prof, 55-59, ASSOC. PROF, 59-, chmn. div. ed. psychol, measurements & guid, 64-65. U.S.A.F, 43-46, 1st Lt. AAAS; Psychol. Asn. Educational and psychological measurement; experimental design; computing techniques. Publ: Co-auth, Basic facts of statistics, Collier, 63; auth, How well can teachers estimate students' goals, Ed. Admin. & Supv; Compensation of subjects for participation in research, Sch. & Soc. Address: School of Education, Fordham University, 302 Broadway, New York, N.Y. 10007.

CROWLEY, PROF. HARRY LEROY, b. Beals, Maine, Feb. 9, 21; m. 49; c. 4. EDUCATIONAL MEASUREMENT, PSYCHOMETRICS. B.S, Bates Col, 47; Ed.M, Boston, 51, Ed.D.(measurement & eval), 54. Jr. high sch. prin, pub. schs, Maine, 41-42; teacher, high sch, 47; math, Cushing Acad, Mass, 47-50; instr. PSYCHOL, MASS. STATE COL. North Adams, 52-56, PROF. & CHMN. DEPT, FITCHBURG, 56- Consult. remedial reading prog, pub. schs, Leominster, Mass, 67-68. U.S.N, 42-46, Lt.(jg). Ed. Res. Asn; Nat. Coun. Measurement in Ed; Psychol. Asn. Psychology of learning; learning problems of the culturally disadvantaged; techniques of instruction and motivation effective with the socially handicapped children in elementary and secondary schools. Address: Dept. of Psychology, State College at Fitchburg, Fitchburg, Mass. 01420.

CROWLEY, DR. JOHN M(AX), Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

CROWLEY, DR. RONALD WILFRED, b. Toronto, Ont, May 31, 44. ECONOMICS. B.A, Bishop's (Can), 64; Ph.D. (econ), Duke, 68. Res. asst. econ, Du-Pont of Can, summer 65; instr, Duke, 66-67; ASST. PROF. ECON. QUEEN'S (ONT), 67- Mem, Can. Tax Found. Am. Econ. Asn; Nat. Tax Asn; Can. Econ. Asn; Royal Econ. Soc. Migration; grants-in-aid; intergovernmental spillovers, especially public finance. Address: Dept. of Economics, Queen's University, Kingston, Ont, Can.

CROWTHER, DR. BETTY I(SABEL), b. Schenectady, N.Y, Nov. 7, 39. SOCIAL PSYCHOLOGY. B.A, Brown, 61; M.H, Cornell, 62; Ph.D.(soc. psychol), Wisconsin, 65. Res. asst. ed. psychol, Wisconsin, 63-65; asst. prof. sociol, Nevada, 65-67; RES. DIR. ED, COOP. ED. RES. LAB, 67- Desert Res. Inst. study grant, summer 66. Regional coordinator, Proj. Talent, 66-67. Sociol. Asn. Methodology; personality research; study of perceived personality traits as function of minimal ratee cues and rater characteristics. Publ: Co-auth, A workbook for the study of social interaction processes: direct observation procedures in the study of individual and group, Rand McNally, 65; Three factors of school achievement, 67 & Sociological background variables affecting school achievement, 68, J. Ed. Res. Address: Cooperative Educational Research Laboratory, 540 W. Frontage Rd, Northfield, Ill. 60093.

CROXTON, PROF. FREDERICK E(MORY), b. Washington, D.C, May 23, 99; m. 21; c. 2. STATISTICS. A.B, Ohio State, 20, A.M, 21; fel, Columbia, 24-26, Ph.D.(econ), 26. Asst. econ, Ohio State, 19-21, instr, 21-26; assoc. statist, COLUMBIA, 26-27, asst. prof, 27-37, assoc. prof, 37-44, prof, 44-64, EMER. PROF, 64- Interim dir. admissions & spec. asst. to v.pres. & provost, 51-53. Lectr, Ohio Wesleyan, 30-31; N.Y. Sch. Soc. Work, 30-32, 44. Mem. staff, Nat. Bur. Econ. Res, 29-30. U.S.A, 18-19, 2nd Lt. Fel. AAAS; fel. Statist. Asn. Statistical and graphic methods. Publ: Elementary statistics with applications in medicine and the biological sciences, Dover, 53; co-auth, Practical business statistics, 3rd ed, 60 & Applied general statistics, 3rd ed, 67, Prentice-Hall. Address: Columbia University, New York, N.Y. 10027.

CRUIKSHANKS, PROF. A(NDREW) N(ORMAN), b. Northern Ireland, Feb. 28, 08; nat; m. 37; c. 2. POLITICAL SCIENCE. A.B, California, 31; A.M, Stanford, 33, Ed.D, 57. Instr, prin. adult sch. & dir. community forum, pub. schs, Calif, 37-47; PROF. SOC. SCI, CALIF. STATE POLYTECH. COL, 47-, head dept, 51-63. International relations; education. Publ: Co-auth, Introduction to American government & Educating citizens for democracy. Address: Dept. of Social Sciences, California State Polytechnic College, San Luis Obispo, Calif. 93402.

CRUM, DR. LAWRENCE LEE, b. Brownsville, Tex, July 25, 33. FINANCE. B.B.A, Texas, 54, M.B.A, 56, fels, 56-58, Ph.D.(finance, econ), 61. Lectr. FINANCE, Texas, 58-59; asst. prof, Florida, 59-63, ASSOC. PROF, 63-65; TEXAS, 65- Ford Found. faculty res. fel, Fed. Reserve Bank Atlanta, 63-64. Consult, Irving Trust Co, New York, 61- Econ. Asn; Finance Asn. Monetary economics; significance of changes in banking structure; evaluation of regulation of commercial banking; economics of time deposit banking; innovations in payment systems and banking operations. Publ: Time deposits in present-day commercial banking, Univ. Florida, 64; Discretionary authority for the President to change tax rates as an instrument of economic stabilization policy, Grad. Sch. Bus, Univ. Tex, 67; The commercial banking industry in Texas: transition and innovation, Bur. Bus. Res, Univ. Texas, 68. Address: Dept. of Finance, University of Texas, Austin, Tex. 78712.

CRUMB, PROF. JOSEPH A(LBERT), Econ, see 10th ed, Soc. & Behav. Vols.

CRUMBAUGH, DR. JAMES C(HARLES), b. Terrell, Tex, Dec. 11, 12; wid; c. 1. PSYCHOLOGY. A.B, Baylor, 35; A.M, Southern Methodist, 38; Ph.D. (psychol), Texas, 53. Instr. psychol, Memphis State Col, 47-56; Vet. Admin. trainee, clin. psychol, Tennessee, 56-57; chmn. dept. psychol, MacMurray Col, 57-59; res. dir, Bradley Center, Inc, 59-64; RES. DIR. & COORDINATOR UNIT I PSYCHOL. SERV, VET. ADMIN. HOSP, 64- Parapsychol. Found. grant, Duke, 54; Memphis State Col, 55-56. Consult, Mix Mem. Fund, Inc, 57-59. U.S.A.A.F, 42-45. Psychol. Asn. Existential psychotherapy, especially logotherapy; parapsychology; temporally progressive memory changes. Publ: Temporal changes in the memory of visually perceived form, Am. J. Psychol; The application of logotherapy, J. Existentialism, spring 66; A scientific critique of parapsychology, Int. J. Neuropsychiat, 4/67. Address: Psychology Service, Station B, Veterans Administration Hospital, Gulfport, Miss. 39502.

CRUMLEY, DR. LLOYD MORRIS, b. Pittsburgh, Pa, Nov. 10, 24; m. 47; c. 4. PSYCHOLOGY. B.S, Pittsburgh, 50; A.M, Temple, 54; Ph.D.(psychol), Pa. State, 64. Exp. & physiol. psychologist, aeronaut. med. equip. lab, Naval Air Exp. Sta, Phila, 50-54; sr. psychologist, HRB-Singer, Inc, 58-61; supv. psychologist, missile & space dept, GEN. ELEC. CO, 61-62, mgr. man-mach. systs, adv. space projs. dept, 62-64, CONSULT. ENGR. HUMAN FACTORS, RE-ENTRY SYSTS. DEPT, 64- U.S.N, 43-46. Psychol. Asn. Quantification and control of human performance in manufacture, test, and operation of complex systems; development of techniques to incorporate human error data into quantitative reliability calculations. Publ: Co-auth, Man-computer roles in space navigation and guidance, Franklin Inst. Res. Labs, 67 & Armnet: a quantitative approach to the evaluation of man-machine system availability, Ann. Reliability & Maintainability, 66. Address: 17 Fairway Rd, Paoli, Pa. 19301.

CRUMLEY, DR. WILMA BRUNER, b. Shelton, Nebr, Feb. 26, 27; wid; c. 2. JOURNALISM, SOCIAL PSYCHOLOGY. B.A, Midland Col, 49; A.M, Missouri, 63, Ph.D.(journalism), 66. Mem. advert. sales staff, Fremont Guide & Tribune, 45-50; Lincoln J. & Star, 53-54; Manhattan.Mercury, Kans, 57-60; instr, Missouri, 60-63; mem. faculty, Stevens Col, 63-65; ASSOC. PROF. JOURNALISM, NEBRASKA, 65- Journalism, advertising and research. Address: School of Journalism, University of Nebraska, Lincoln, Nebr. 68508.

CRUMP, DR. WILLIAM LEVERN, b. Enid, Okla, July 21, 20; m; c. 3. BUSINESS ADMINISTRATION. B.S, Lincoln (Mo), 42; M.A, Northwestern, 46, Ph.D.(bus), 49. Assoc. prof. bus. admin. & chmn. dept, Md. State Col, Princess Anne, 48-49; prof. & chmn. dept, Tennessee State, 49-53, dir. bur. pub. rels. & univ. press, 53-58; prof. bus. admin. & chmn. dept, Ky. State Col, 58-60; Central State, 60-67; CONSULT, NASA, D.C, 67- Ford Found. summer fel. mgt, Indiana, 60. Prog. dir, Nat. Negro Bus. League, 53-55. U.S.A, 42-46. Soc. Adv. Mgt. Business organization and management. Publ: Co-auth, The story of Kappa Alpha Psi, Kappa Alpha Psi Fraternity, 67. Address: 607 Sixth Place, S.W, Washington, D.C. 20024.

CRUMPTON, DR. EVELYN, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

CRUSE, DR. DANIEL B(OYD), b. Beaumont, Tex, July 31, 28; m. 50; c. 3. PSYCHOLOGY. Ph.D, Texas, 60. Asst. prof. PSYCHOL, Arkansas, 59-61; MIAMI (FLA), 61-66, ASSOC. PROF, 66- U.S.M.C, 51-53, Sgt. Psychol. Asn; Soc. Res. Child Develop. Psychology of learning and development. Address: Dept. of Psychology, University of Miami, P.O. Box 8185, Coral Gables, Fla. 33124.

CRUTCHFIELD, PROF. RICHARD S(TANLEY), b. Pittsburgh, Pa, June 20, 12; m. 47; c. 2. PSYCHOLOGY. B.S, Calif. Inst. Tech, 34; Ph.D.(psychol), California, 38. Res. assoc. psychol, Swarthmore Col, 38-39, asst. prof, 40-41; instr, Mt. Holyoke Col, 39-40; head methodology sect, prog. surys. div, U.S. Dept. Agr, 42-44; res. dir. surys. div, Off. War Info, 44; dir. field surys, morale div, U.S. Strategic Bombing Surv, 45; prof. psychol. & chmn. dept, Swarthmore Col, 46-53; PROF. PSYCHOL. & DIR. INST. PERSONALITY ASSESSMENT & RES, CALIFORNIA, BERKELEY, 53-, RES. PROF, MILLER INST. BASIC RES. SCI, 61- Medal of Freedom, U.S. War Dept, 46. Fel. Psychol. Asn. Social psychology; perception; personality assessment. Publ: Theory and problems of social psychology; Assessment of persons through a quasi group-interaction technique, J. Abnorm. & Soc. Psychol; Conformity and character, Am. Psychologist. Address: Dept. of Psychology, University of California, Berkeley, Calif. 94720.

CRUTTENDEN, DR. CHARLES H(ERBERT), b. Inkster, N.Dak, July 9, 24; m. 55; c. 2. GEOGRAPHY. A.B, California, 49; M.A, Syracuse, 52, Ph.D, 58. City planner, Syracuse City Planning Cmn, N.Y, 52-54; instr. geog, Syracuse, 54-55; indust. analyst, Doane, Inc, 57-58; res. analyst, Larry Smith & Co, Wash, 58-60; asst. prof. geog, San Diego State Col, 60-63; planning consult, Frank L. Hope & Assocs, 63-64; SR. PLANNER, SAN DIEGO COUNTY PLANNING DEPT, 64- U.S.A.A.F, 43-46; U.S.A.R, 50-58, 1st Lt. Asn. Am. Geog. Urban information systems; land use classification; computer mapping; models for urban and regional planning. Address: Planning Dept, Co. of San Deigo, 1600 Pacific Highway, San Diego, Calif. 92101.

CRYNS, DR. ARTHUR G(ERARD), b. Brunssum, Netherlands, Feb. 22, 30; m. 57; c. 2. PSYCHOLOGY. B.A. & B.S, Nijmegen, 53, M.A, 55, Ph.D, 60. Head psychol. res, Nat. Dutch Coal Mines, 55-57; sr. lectr. PSYCHOL, Univ. Col. Basutoland, S.Africa, 58-60; asst. prof, DETROIT, 60-63, ASSOC. PROF, 63- Psychol. consult, St. John's Prov. Sem, 63- Am. Psychol. Asn; Soc. Int. Develop; Int. African Inst; Psychol. Asn. Netherlands. Race relations; cross cultural survey of personality studies in Africa; African basic personality structure. Publ: African basic personality structure, Gawein, Netherlands, 66; Race relations and race attitudes in South Africa: a socio-psychological study of human relationships in a multi-racial society; African intelligence: a survey of cross-cultural intelligence research in Africa. Address: Dept. of Psychology, University of Detroit, Detroit, Mich. 48221.

CSENDES, DR. ERNEST, Org. Chem, see 11th ed, Phys. & Biol. Vols.

CSIKSZENTMIHALYI, DR. MIHALY, b. Fiume, Italy, Sept. 29, 34; U.S. citizen; m. 60; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Chicago, 59; fel, 60-62, Ph.D.(psychol), 65. Res. asst. human develop, Chicago, 62-64, res. assoc, 64-65; instr. SOCIOL. & ANTHROP, LAKE FOREST COL, 65-67, ASST. PROF. & CHMN. DEPT, 67- Artistic and scientific creativity; culture change; psychology of play; theory of power and control. Publ: Co-auth, Scientific creativity, Sci. J, 67; auth, Art and life: an existential approach to the psychology of artistic creation, J. Existentialism, 68; A cross-cultural comparison of some structural characteristics of group drinking, Human Develop, 68. Address: Dept. of Sociology & Anthropology, Lake Forest College, Lake Forest, Ill. 60045.

CUADRA, DR. CARLOS A(LBERT), b. San Francisco, Calif, Dec. 20, 25; m. 47; c. 3. PSYCHOLOGY. A.B, California, 49, Kofoid fel, 50-51, Ph.D. (psychol), 53. Asst. psychol, California, 49-50; intern clin. psychol, Contra Costa County Probn. Dept, 50; Berkeley State Ment. Hyg. Clin, 51; trainee, Vet. Admin, San Francisco, Calif, 51-53, staff psychologist, Downey, Ill, 53-55, clin. psychol. res. supvr, 55-56; human factors scientist, Rand Corp, 56-57; head intel. systs, SYST. DEVELOP. CORP, 57-63, spec. develop. staff, 63-64, info. systs. tech. staff, 65-68, MGR. LIBRARY & DOCUMENT. SYSTS. DEPT, 68- U.S.N, 44-46. Soc. Info. Sci. Man-machine systems; intelligence techniques; social perception; selection techniques; air defense; information use; information system design and evaluation; professional communication. Publ: Ed, Annual review of information science and technology, Interscience, Vol. 1, 9/66, Vol. II, 10/67; co-auth, Introduction to MMPI, Italian J. Appl. Psychol. & Sociol. & Opening the black box of relevance, J. Document, 12/67. Address: Systems Development Corp, 2500 Colorado Ave, Santa Monica, Calif. 90406.

CUBAN, LARRY, Negro Hist, Urban Ed, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CUBBAGE, PROF. MOYNE L, Speech Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

CUBER, PROF. JOHN F(RANK), b. Chicago, Ill, Aug. 31, 11. SOCIOLOGY. A.B, West. Mich. State Teachers Col, 32; Ph.D, Michigan, 37. Head dept. econ. & sociol, Sioux Falls Col, 34-36; asst. prof. SOCIOL, Marietta Col, 36-37; Kent State, 37-39, assoc. prof, 39-42, prof, 42-44; assoc. prof, OHIO STATE, 44-46, PROF, 46- Ed, Sociol. Series, 48- Sociol. Asn. Social organization; the family. Publ: Co-auth, Social stratification in the United States; Readings in sociology: sources & comment, 62 & The significant American, 65, Appleton. Address: Route 1, Cardington, Ohio 43315.

CUFF, JAMES V(INCENT), b. New York, N.Y, Apr. 29, 15; m. 45; c. 1. PSYCHOLOGY. B.S, Fordham, 41; M.A, Columbia, 48. Instr. mil. sci. & tactics, St. Cloud Col, 43; Arizona State, 43-44; psychologist, Vet. Admin. Regional Off, N.Y, 46-50; private practice, 50-53; V.PRES. PSYCHOL, REED, CUFF & ASSOCS, INC, 53- U.S.A.A.F, 42-46, Maj. AAAS; Psychol. Asn; Int. Asn. Appl. Psychol. Human relations counseling and consulting; executive development; personnel selection; psychological testing and evaluation; design and development of psychological tools; perception and behavioral problems; motivational research; industrial organization and operations analyses. Address: Reed, Cuff & Associates, 420 Lexington Ave, 1645, New York, N.Y. 10017.

CUFFEY, ELEANOR, b. Waukegan, Ill, June 7, 16. STATISTICS. B.S, Northwestern, 38; fel. & M.A, Smith Col, 39. Asst. to ed, Math. Rev, Brown, 39-40; asst. state & local govt. surv, Princeton, 40-41, statist. supvr. fire control res, 41-45; statistician, Tenn. Valley Authority, 45-54; Rock Island Arsenal, 54-63; MATH. STATISTICIAN, TREAS. DEPT, INTERNAL REVENUE SERV, 63- Statist. Asn. Mathematical and business statistics; digital computer programing. Address: 6100 Breezewood Dr, Apt. 304, Greenbelt, Md. 20770.

CUJES, DR. RUDOLF, b. Celje, Yugoslavia, June 14, 16; Can. citizen; m. 43; c. 2. SOCIOLOGY. Dipl. iur, Ljubljana, 39; Dr. rer. pol.(soc. sci), Graz, 47. Asst. prof. SOCIOL, ST. FRANCIS XAVIER, 61-67, ASSOC. PROF, 67- Sociol. Asn; Can. Sociol. & Anthrop. Asn. Marriage and family; multi-problem families in Antigonish-Guysborough Counties, Nova Scotia and Prince County, Prince Edward Islands. Publ: Co-auth, This is Slovenia, Slovenian Nat. Fedn. Can, 58; auth, His story, N.S. Credit Union League Ltd, 65; Ninidjanissidog Saiagiinagog: contribution of the Slovenes to the socio-cultural development of the Canadian Indians, St. Francis Xavier Univ, 68. Address: Dept. of Sociology, St. Francis Xavier University, Antigonish, N.S, Can.

CULBERT, PROF. JAMES I(RVING), b. Soudan, Minn, Mar. 25, 02; m. 32; c. 1. GEOGRAPHY, GEOLOGY. A.B, Minnesota, 23; A.M, Clark, 38, Ph.D, 39. Prof. geog. & geol, W.Liberty State Col, 42-43; assoc. prof. geog, N.Mex. Col, 43-45; petrol. engr, Stanolind Oil & Gas Co, 45-46; assoc. prof. geog. & geol, Ariz. State Col, Flagstaff, 46-47; PROF. EARTH SCI. & HEAD DEPT. EARTH SCI. & ASTRON, NEW MEXICO STATE, 47- Asn. Am. Geog; Geog. Soc; Asn. Petrol. Geol. Economic and human geography; geomorphology. Address: Dept. Earth Science & Astronomy, New Mexico State University, P.O. 3526. Las Cruces, N.Mex. 88001.

CULBERT, PROF. SIDNEY S(PENCE), b. Miles City, Mont, May 14, 13. PSYCHOLOGY. Ph.D.(psychol), Washington (Seattle), 50. From asst. prof. to ASSOC. PROF. PSYCHOL, WASHINGTON (SEATTLE), 60- Psychol. Asn. Perception; psycholinguistics; human factors research. Address: 15857 15th N.E, Seattle, Wash. 98155.

CULBERT, DR. THOMAS PATRICK ANTHONY, b. Minneapolis, Minn, June 13, 30; m. 58; c. 4. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Minnesota, 51; M.A, Chicago, 57, Nat. Sci. Found. fels, 58-60, Ph.D.(anthrop), 62. Acting asst. prof. anthrop, Mississippi, 60-61; ceramicist, Archaeol. Tikal Proj, univ. mus, Pennsylvania, 61-62; asst. prof. ANTHROP, Edwardsville Campus, Southern Illinois, 62-64; ARIZONA, 64-67, ASSOC. PROF, 67- Lectr, San Carlos, Guatemala, 62. Chem.C, U.S.A, 53-55. Anthrop. Asn; Soc. Am. Archaeol.(secy, 68-72). Civilizations of Mexico and Central America. Publ: The ceramic history of the central highlands of Chiapas, Mexico, Papers New World Archaeol. Found. 19, 65; co-auth, Introducing culture, Prentice-Hall, 67. Address: Dept. of Anthropology, University of Arizona, Tucson, Ariz. 85721.

CULBERTSON, DR. JOHN, b. Madison, Wis, June 23, 37; m. 59; c. 2. ECONOMICS, POLITICAL SCIENCE. S.B, Wisconsin, 59; M.B.A, Maryland, 61; D.B.A.(econ, polit. sci), Harvard, 65. Res. assoc. bus. admin, Harvard, 62-65; asst. prof, Maryland, 65-67; CONSULT. ECON, BOOZ, ALLEN & HAMILTON, INC, 67- Consult, NASA & Am. Iron & Steel Inst, 65-67; U.S. Dept. Commerce & Md. State Dept. Econ. Develop, 66-67, Am. Asn. Chiefs Police, 67. Participant, Ford Found. Conf. Bus. & Soc, 66. Med.C, U.S.A, 56-57. Polit. Sci. Asn; Econ. Asn; Acad. Polit. & Soc. Sci. American domestic economic policy; regulated industries; public policy formulation processes; technology dissemination. Publ: What ever happened to space spin off, Calif. Mgt. Rev, spring 68. Address: 3676 Sutherland Rd, Shaker Heights, Ohio 44122.

CULBERTSON, PROF. JOHN M(ATHEW), b. Detroit, Mich, Aug. 25, 21; m. 47; c. 4. ECONOMICS. Ph.D.(econ), Michigan, 56. Economist, bd. governors, Fed. Reserve Syst, D.C, 50-57; assoc. prof. econ. & commerce, WISCONSIN, 60-62, PROF. ECON, 62- U.S.A.A.F, 43-46. Econ. Asn; Statist. Asn; Finance Asn. Monetary theory and policy; public finance; economic theory. Publ: Full employment or stagnation?, 64 & Macroeconomic theory and stabilization policy, 68, McGraw; Term structure of interest rates, Quart. J. Econ. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

CULBERTSON, PROF. PAUL T(HOMAS), b. Ashland, Ore, Mar. 13, 05. PSYCHOLOGY. A.B, California, 31, A.M, 33; Ph.D, Oregon, 41. Prof. hist. & psychol, PASADENA COL, 41-48, PROF. PSYCHOL, 48-, dean col, 48-67. Correlation of mental abilities; mental hygiene; psychology of religion. Publ: Co-auth, Building a bridge to a better world; auth, More like the Master, 66 & Psychological portraits of Old Testament personalities, 67, Beacon Hill. Address: Dept. of Psychology, Pasadena College, 1539 E. Howard St, Pasadena, Calif. 91104.

CULBERTSON, ROBERT E, b. Los Angeles, Calif, Aug. 6, 16; m; c. 2. INTERNATIONAL AFFAIRS. B.S, Southern California, 38, M.S, 42. Personnel methods consult, Soc. Security Bd, 40-43; regional personnel rep, Fed. Security Agency, Alaska, Hawaii & West. Coast, 46-48, chief personnel standards br, off. adminstr, 50-51; dir. div. indust, govt. & tech. serv, Inst. Inter-Am. Affairs, 51-53; dep. Near East Rep, Ford Found, 53-56, Pakistan rep, 58-61; v.pres, American Univ. Cairo, 56-58; dir. mission Lima, Peru, U.S. AGENCY INT. DEVELOP, 61-66, ASSOC. DIR, MISSION VIETNAM, 66- Dep. adminstr, Greek Soc. Security Inst, 48-50. Mem. sr. seminar for. policy, Dept. State, 65-66. U.S.N.R, 43-46, Lt.(jg). Polit. Sci. Asn; Soc. Pub. Admin; Pub. Personnel Asn. Publ: Post war civil service in Great Britain, Pub. Personnel Rev. Address: Dept. of State, Bureau of American Republics Affairs, Washington, D.C. 20031.

CULLEN, PROF. DONALD E(UGENE), b. Palmyra, N.Y, Nov. 12, 23; m. 49; c. 3. ECONOMICS. B.A, Hobart Col, 47; Chicago, 47-48; M.S, Cornell, 49, Ph.D.(labor econ), 53. Instr. labor rels, St. Bonaventure, 49-51; asst. prof. collective bargaining & labor econ, N.Y. SCH. INDUST. & LABOR RELS, CORNELL, 53-58, assoc. prof, 58-67, PROF. INDUST. & LABOR RELS, 67- U.S.N.R, 43-46, Ens. Econ. Asn; Indust. Rels. Res. Asn. Labor relations. Publ: Minimum wage laws; Interindustry wage structure, 1899-1950, Am. Econ. Rev; Labor-market aspects of the St. Lawrence Seaway, J. Polit. Econ. Address: 265 Ives, Cornell University, Ithaca, N.Y. 14850.

CULLEN, DR. JOHN W(ILLIAM), b. Pittsfield, Mass, Sept. 27, 26; m. 55. EXPERIMENTAL PSYCHOLOGY. B.A, California, Los Angeles, 49, Ph.D. (psychol), 54. Asst. neurophysiol, California, Los Angeles, 52-54; proj. dir. Am. Inst. Res, 54-56; training specialist, Rand Corp, 56-57; div. training leader, SYST. DEVELOP. CORP, 58-63, br. head, 63-65, HUMAN FACTORS SR. SCIENTIST, 65- U.S.A.A.F, 44-46. Psychol. Asn; Human Factors Soc. Behavior theory; test construction; system training and analysis; personnel selection; computer assisted instruction and counseling. Publ: Co-auth, Operational specification for a computer directed training subsystem, 67 & Computer operator material for a computer directed training subsystem, 67, Syst. Develop. Corp; auth, Effect of brain stimulation during black-white discrimination on learning behavior in the white rat, J. Comp. Physiol. Psychol. Address: System Development Corp, 2500 Colorado Ave, Santa Monica, Calif. 90406.

CULLEY, PROF. JACK F(REDERICK), b. Marshalltown, Iowa, Jan. 17, 19; m. 56; c. 3. INDUSTRIAL RELATIONS. A.B, Grinnell Col, 48; M.S, Cornell, 49, Ph.D.(personnel admin), 52. Asst. prof. econ, Allegheny Col, 49-50; labor economist, indust. manpower br, Air Materiel Command, U.S. Dept. Air Force, Ohio, 51; dir. indust. rels, A.L. Garber Co, 52-54; assoc. prof. mgt, COL. BUS. ADMIN, IOWA, 55-67, PROF. INDUST. RELS, 67-, DIR. BUR. LABOR & MGT, 55- Dean col. lib. & fine arts, Liberia, 65-67. Indust. consult, 48- U.S.A.A.F, 41-45, Res, 45-54, Maj. Indust. Rels. Res. Asn; Mgt. Asn; Econ. Asn. Management development and manpower utilization. Publ: Unionization of salaried engineers; Common misconceptions concerning the older worker, Wilson, 61; Is management research on the right track?, Houghton, 62. Address: 1644 Morningside Dr, Iowa City, Iowa 52240.

CULLEY, DR. PAUL G, Phys. Anthrop, see 10th ed, Soc. & Behav. Vols.

CULLISON, DR. WILLIAM EUGENE, b. Ponca City, Okla, Nov. 15, 35; m. 57; c. 2. ECONOMICS. B.B.A, Oklahoma, 58, M.A, 60, Ph.D.(econ), 67. Instr. ECON, West. Md. Col, 62-63; N.C. State, 63-66; ASST PROF, VA. POLYTECH, 66- Am. Econ. Asn; Royal Econ. Soc. Wage and employment theory; macroeconomics; regional employment problems. Publ: Secondary boycotts in the United States since 1947, Labor Law J, 5/61; co-auth, Oligopoly, intergroup conflict and the growth of the firm, Am. J. Econ. & Sociol, 7/65; auth, Estimates of union membership from labor-management reporting and disclosure act data: an extension, South. Econ. J, 1/68. Address: Dept. of Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

CULLITY, DR. JOHN P, b. Jersey City, N.J, Nov. 3, 28. ECONOMICS. B.S, St. Peter's Col, 52; M.A, Columbia, 55, Ph.D.(econ), 64. ASST. PROF. ECON, St. Peter's Col, 55-63; RUTGERS, 63- U.S.A, 52-54. Econ. Asn; Acad. Polit. Sci. Employment trends; stock price fluctuations. Publ: The difficulty of achieving the full employment goal, Rev. Soc. Econ, 9/65; An alternative index of stock price diffusion, Quart. Rev. Econ. & Bus, 11/67; The growth of governmental employment in Germany, Zeitschrift Die Gesamte Staatswissenschaft, 4/67. Address: 209 Belvidere Ave, Jersey City, N.J. 07306.

CULLUM, JAMES B(ARLOW), JR, Econ, see 10th ed, Soc. & Behav. Vols.

CULVER, PROF. DWIGHT W(ENDELL), b. New Haven, Conn, Feb. 15, 21; m. 43; c. 4. SOCIOLOGY. A.B, Carleton Col, 41; B.D, Yale, 44, Rosenwald Fund fel, 46-47, Ph.D, 48. Asst. prof. sociol, Purdue, 47-52, assoc. prof, 52-63; prof. & chmn. dept, St. Olaf Col, 63-68; PROF. SOCIOL. & ACAD. DEAN, COL. ST. CATHARINE, 68- Exec. dir, Nat. Coun. for Panel Americans, 56-58; assoc. dir, Lilly Endowment Study Pre-Seminary Ed, 61-63. Fel. Sociol. Asn; Soc. Sci. Study Relig. Minority groups; sociology of religion. Publ: Negro segregation in the Methodist church; co-auth, The making of ministers, 64 & Pre-seminary education, 65, Augsburg. Address: 2126 Edgcumbe Rd, St. Paul, Minn. 55116.

CULVER, PROF. JERRY BAYLEY, b. Platteville, Wis, Dec. 17, 26; m. 51; c. 2. GEOGRAPHY. B.S, Wis. State Col. & Tech. Inst, 48; M.S, Wisconsin, 52, 52-55. Instr. GEOG, exten, Wisconsin, 54-55; from instr. to ASSOC. PROF, WIS. STATE, LA CROSSE, 56- Proj. asst, Off. Naval Res. Contracts on Terrain Anal, 53-56. Asn. Am. Geog; Geog. Soc. Cartography and terrain analysis; landform geography. Publ: Cartographic aids in economics research, J. Land Econ. Address: Dept. of Geography, Wisconsin State University, La Crosse, Wis. 54601.

CULVER, PROF. WALLACE W, Sociol, Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

CUMBERLAND, PROF. JOHN H(AMMETT), b. Yosemite Nat. Park, Calif, May 29, 24; m. 48; c. 1. ECONOMICS. B.A, Maryland, 47; M.A, Harvard, 49, fel, 50-51, Ph.D.(econ), 51. Chief critical mat. sect, off. chief economist, U.S. Bur. Mines, 51-53; assoc. prof. econ, MARYLAND, 53-62, PROF. BUS. & ECON. RES, 62- Founding incorporator, Am. Col, Paris, 61; lectr, Indust. Col. Armed Forces, 62-64; U.S. Civil Serv. Cmn, 65. Consult, Resources for the Future, Inc, 56-59; U.S. Dept. Interior, 62; NASA, 63-66; U.S. Dept. Commerce, 66- Econ. adv, Orgn. European Econ. Coop, France, 59-60. Mem, NASA Adv. Cmt. Econ. Implications of Space Prog, 63-65; U.S. Dept. Commerce Independent Study Bd. to Eval. Effects of Procurement, Sci. & Related Policies on Regional Develop, 67; Nat. Trust for Hist. Preservation. U.S.A.A.F, 43-45. Econ. Asn; Statist. Asn; Regional Sci. Asn. Regional analysis; inter-industry analysis; economic development. Publ: Contrib, Methods of regional analysis: an introduction to regional science; co-ed. & contrib, Regional economic planning, Orgn. European Econ. Coop; auth, A regional interindustry model for analysis of development objectives, Regional Sci. Asn. Papers, 65. Address: 4200 Clagett Rd, Hyattsville, Md. 20740.

CUMMING, DR. M(ARGARET) ELAINE, b. Victoria, B.C, Dec. 24, 15; m. 39; c. 2. SOCIOLOGY. B.A, Saskatchewan, 48, M.A, 49; Ph.D, Harvard, 54. Biologist cytol, Saskatchewan, 49-50; genetics, Prov. Dept. Health, Sask, 50-52, sociologist, div. ment. hyg, 54-55; res. assoc. sociol, Cornell, 55-56; asst. prof, cmt. human develop, Chicago, 56-59; assoc. res. scientist, ment. health res. unit, N.Y. STATE DEPT. MENT. HYG, 59-65, SOCIOLOGIST, 65- Consult, Royal Cmn. Agr. & Rural Life, Sask, Can, 54-55; Joint Cmn. Ment Illness & Health, 57; Nat. Opinion Res. Center, 62- Fel. Sociol. Asn; Psychol. Asn; Pub. Health Asn. Social structure theory; social psy-

chology theory; empirical and theoretical studies of systems of social control. Publ: Co-auth, Closed ranks; Growing old; Ego and milieu. Address: 339 State St, Albany, N.Y. 12225.

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CUMMINGS, H(ERBERT) J(AMES), b. Knox Dale, Pa, Sept. 2, 15; m; c. 2. ECONOMICS. B.S, Pittsburgh, 37; M.A, Northwestern, 40. Instr. econ, Pittsburgh, 38-41; div. asst, U.S. Dept. State, 41-42, asst. chief div. for. activity correlation, 45-47, rep. on U.S aid to Turkey, 47, econ. officer, U.S. Diplomatic Mission to Israel, 48; dir. Africa-Near East Div, bur. for. commerce, U.S. DEPT. COMMERCE, 50-62, DIR. FOR. SERV. DIV, 62- Econ. officer, U.S. Consulate Gen, Istanbul, 43-44; guest lectr, Indust. War Col. Armed Forces, 51-56. Consult, off. polit. adv, Supreme Hq, Allied Exped. Forces, 45; adv, U.S. del, UN Econ. & Soc. Coun, Geneva, 51. Chief, Spec. U.S. Trade Mission, Greece, 55, Turkey, 56; dir, U.S. Trade Mission, Nigeria, 59, E.Africa, 60, Ethiopia, Sudan & Somali, 65, U.S. Trade & Investment Mission, Pakistan, 68. Econ. Asn. International trade and investment; economic problems of Africa and Middle East countries. Address: 1435 Fourth St. S.W, Washington, D.C. 20024.

CUMMINGS, DR. JONATHAN W(ALKLEY), b. U.S, Sept. 23, 25. PSYCHOLOGY. B.A, Vermont, 49; Ph.D.(clin. psychol), Illinois, 54. Clin. psychologist, Vet. Admin. Hosp, Hines, Ill, 54-59, CHIEF PSYCHOL. SERV, Vet. Admin. Center, Fargo, N.Dak, 60-62, VET. ADMIN. HOSP, D.C, 62- Lectr, sch. nursing, Loyola (Ill), 56-57; instr, DePaul, 57-59; asst.prof, N.Dak. State, 60-62; part-time prof, Maryland, 63- Consult, Childrens Village, 61-62. Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. U.S.M.C.R, 43-46. Psychol. Asn. Electroencephalographic changes as a function of experimentally induced emotional states; relationship between non-psychiatric hospital adjustment and various psychosocial variables. Publ: Co-auth, Demographic study of irregular hospital discharge, Newsletter Psychologist in Tuberc; One year's experience with an intermittent dialysis program, Ann. Int. Med, 9/64 & Chronic intermittent hemodialysis: clinical considerations, Med. Ann. D.C, 6/67. Address: Psychology Service, Veterans Administration Hospital, 50 Irving St. N.W, Washington, D.C. 20422.

CUMMINGS, DR. MILTON CURTIS, Sociol, see 10th ed, Soc. & Behav. Vols.

CUMMINGS, PROF. SAMUEL B(ILLINGS), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

CUMMINGS, DR. S(AMUEL) THOMAS, b. Pittsburgh, Pa, July 29, 21; m. 51; c. 3. PSYCHOLOGY. A.B, Princeton, 43; M.S, Pittsburgh, 48, Ph.D, 50. Staff psychologist, Vet. Admin. Ment. Hyg. Clin, Pittsburgh, Pa, 50-51, chief psychologist, Vet. Admin. Hosps, Pittsburgh & Aspinwall, 51-55; asst. prof. PSYCHOL, DEPT. PSYCHIAT, DIV. BIOL. SCI, CHICAGO, 55-61, ASSOC. PROF, 61- Lectr, Pittsburgh, 48-55. U.S.A, 43-46. Psychol. Asn; Orthopsychiat. Asn; Asn. Ment. Deficiency; Soc. Res. Child Develop. Family dynamics and children's ego development; training in child clinical psychology; development of parental caretaking competence. Publ: Co-auth, Effects of the child's deficiency on the mother: a study of mothers of mentally retarded, chronically ill and neurotic children, Am. J. Orthopsychiat, 36: 595-608; auth, Psychotic dwarfs with good prognoses or what? Developmental stage contingencies in clinical child psychology, Psychol. Reports, 20: 451-456; co-auth, Maternal personality and the externalizing-internalizing symptom dimension in neurotic children, Proc. Annual Convention Am. Psychol. Asn, 67. Address: 646 Argyle Ave, Flossmoor, Ill. 60422.

CUMMINS, PROF. L(ESTER) ROSS, b. Orange, N.J, Apr. 1, 19; m. 42; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Yale, 41, M.A, 50, Ph.D.(ed. psychol), 52. Asst. guid, grad. sch, Yale, 49-52; from assoc. prof. to PROF. ED, BATES COL, 52-, DIR. GUID. & PLACEMENT, 53- U.S.A, 42-45, 2nd Lt. Psychol. Asn; Personnel & Guid. Asn. Counseling theories; conflict and cooperation among the helping professions. Publ: Helping professions, Sch. & Soc; Non directive placement in liberal arts colleges, Personnel & Guid. J; Address: 32 Frye St, Lewiston, Maine 04240.

CUMMINS, WILLIAM H(ERSCHEL), Econ, see 10th ed, Soc. & Behav. Vols.

CUNDIFF, PROF. EDWARD WILLIAM, b. Long Beach, Calif, Sept. 28, 19; m. 56; c. 3. MARKETING. B.A, Stanford, 40, M.B.A, 42, Ed.D.(admin), 52. Acct, Haskins & Sells, 45-46; mgr, Row Furniture, Calif, 46-47; owner, Ben Franklin Store, Calif, 47-48; instr. mkt, Syracuse, 48-49, assoc. prof. & assoc. dean, bus. admin, 52-58; instr. MKT, San Jose State Col, 49-52; PROF. & CHMN. DEPT, TEXAS, 58- Consult, Orgn. Econ. Coop. & Develop, Paris, France, 60-61; Ford Found. summer res. fel, California, 63. U.S.N.R, 42-45, Lt. Mkt. Asn. Consumer behavior. Publ: Co-auth, Sales management, 58, Basic marketing, 64 & Essentials of marketing, 65, Prentice-Hall. Address: Dept. of Marketing, University of Texas, Austin, Tex. 78712.

CUNKLE, DR. A(RTHUR) L(EE), b. Ft. Smith, Ark, Aug. 16, 11; m. 40; c. 3. ECONOMICS. A.B, Ark. State Teachers Col, 38; A.M, Kansas, 39; Arkansas, 40; Chicago, 42; Ph.D, Virginia, 47. Asst. prof, Richmond, 47-48; econ, Florida, 48-52; ECONOMIST, STATE LEGIS. REFERENCE BUR, FLA, 52- U.S.N.R, 44-46. Government finance; public school problems; highways. Publ: Florida primary roads; Racing taxes in Florida; Financing government in Florida. Address: Legislative Reference Bureau, Holland Bldg, Tallahassee, Fla. 32304.

CUNNEA, DR. PATRICIA E(DGEWORTH), b. Chicago, Ill, Feb. 19, 29; m. 56. POLITICAL SCIENCE. A.B, Chicago, 50, A.M, 55, Univ, Resources for Future, Soroptimist Int. & Carnegie fels, 55-63, Ph.D.(polit. sci), 63. Instr. POLIT. SCI, Mills Col, 59-61; WASHINGTON STATE, 61-63, asst. prof, 63-68, ASSOC. PROF, 68- Consult, constitution & by-laws cmt, Columbia Plateau Resources Coun, 66. Polit. Sci. Asn. Public policy formation, especially water resources politics and politics of the appropriations process in Congress; American political parties, pressure groups, and electoral behavior. Publ: A political scientist looks at soil and water resources, Columbia Plateau Resources Coun, 66; Political and historical background of regional water organization, Tech. Exten. Serv, Wash. State Univ, 66; Tollgate politics in Congress, In: Cases in American national government and politics, Prentice-Hall, 66. Address: Dept. of Political Science, Washington State University, Pullman, Wash. 99163.

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CUNNINGHAM, DEAN FIRMAN L, b. McMinnville, Tenn, Oct. 3, 19; m. 41; c. 2. ECONOMICS. B.S, Middle Tenn. State, 46; M.S, Tennessee, 48; Gen. Elec. fel. & Ph.D.(econ), Vanderbilt, 63. Instr. econ, Bluefield Col, 48-52; MIDDLE TENN. STATE, 52-56, asst. prof, 56-61, assoc. prof, 61-64, PROF. ECON. & DEAN SCH. BUS. & INDUST, 64- Consult, Bur. Employ. Security, 60- U.S.A, 42-45, Res, 45-67, Maj. Econ. Asn; Mgt. Asn. Development of local labor markets, especially agricultural labor markets. Address: Dept. of Economics, Middle Tennessee State University, Murfreesboro, Tenn. 37130.

CUNNINGHAM, DR. FLOYD F(RANKLIN), b. Flat Rock, Ill, Dec. 24, 99; m. 26; c. 2. GEOGRAPHY. Ed.B, Illinois State, 26; Chicago, 27; A.M, Clark, 28, fel, 28-29, Ph.D.(geog), 30. Ed.B, Illinois State, 26; Chicago, 27; A.M, Clark, 28, fel, 28-29, Ph.D.(geog), 30. Prof. geog. & head dept, Ala. State Col, Florence, 29-47; chmn. dept. geog. & geol, SOUTHERN ILLINOIS, 47-54, dept. geog, 54-59, prof. GEOG, 59-66, EMER. PROF, 66- Prof, U.S. Army Univ, France, 45-46; lectr, U.S. Army Lect. Bur, Germany, 46; Fulbright lectr, Ain Shams & American Univ, Cairo, 53-54, distinguished vis. prof, Western Kentucky, 66- Asn. Am. Geog; Coun. Geog. Ed.(secy, 37-41, v.pres, 37, pres, 42-44). Economic and social geography of United States, France, Germany, Poland, Middle East, India, Indonesia, Australia, Japan, England, Norway, Sweden, Greece, Italy, Burma, Pakistan, and Malaya. Publ: Co-auth, You and the Americas, & You and the world, Benefic 66; auth, 1001 questions answered about water resources, Dodd, 67. Address: Longview Farms, P.O. Box 267, Carbondale, Ill. 62901.

CUNNINGHAM, DR. JOSEPH W(ILLIAM), b. Tampa, Fla, Oct. 23, 36; m. 60; c. 1. PSYCHOLOGY. B.S, Fla. State, 58; M.S, N.C. State, 61; Ph.D.(psychol), Purdue, 64. Personnel psychologist, Armed Forces Examining Sta, Abilene, Tex, 64-65; assoc. prof. PSYCHOL. & head dept, Lamar State Col, 65-67; ASSOC. PROF, N.C. STATE, 67- Adj. Gen. C, U.S.A, 64-65, Res. 65-66, Capt. Psychol. Asn. Job analysis and requirements; learning and motivation. Publ: Co-auth, Asymmetry in stimulus-term and response-term recall following paired-associate learning, Psychonomic Sci, 65; Job dimensions based on factorial analyses of worker-oriented job variables, 67 & The prediction of job requirements by a structured job analysis procedure, Personnel Psychol, 67. Address: Dept. of Psychology, North Carolina State University, Raleigh, N.C. 27607.

CUNNINGHAM, MARVIS DOYLE, b. Rogersville, Ala, Nov. 22, 26; m. 48; c. 2. AGRICULTURAL ECONOMICS. B.S,Tennessee Tech, 49; M.S, Tennessee, 59; Cornell, summer 59. Soil conservationist, soil conserv. serv, U.S. Dept. Agr, 49-57; resource develop. specialist, Agr. Ext. Serv, Tennessee, 58-63, AREA REP, TENN. VALLEY AUTHORITY, 63- U.S.A.A.F, 45-46. Soil Conserv. Soc. Economic analysis and development. Publ: Co-auth, An economic analysis of Lick Creek watershed, Univ. Tennessee, 62. Address: Tennessee Valley Authority, 261 Daylight Blvd, Knoxville, Tenn. 37902.

CUNNINGHAM, DR. RAYMOND JOSEPH, Am. Intellectual Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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CUNNINGHAM, PROF. WARREN, b. Calif, Apr. 19, 07. GOVERNMENT. A.B, California, 27, univ. fel, 27-29, J.D, 30, traveling fel, 35; Ph.D, Washington (Seattle), 46. Consult, County Govt, Calif, 30-39; asst. dir. bur. pub. admin, California, 39-41; admin. asst, Henry J. Kaiser, Ore, 41-44; asst. dir. bur. pub. admin, Washington (Seattle), 44-46, assoc. dir. inst. govt, 45-46; asst. prof. GOVT, MIAMI (OHIO), 46-47, assoc. prof, 48-68, PROF, 68- Lectr, eve. col, Cincinnati, 47-62; Earlham Col, 47-53; res. assoc, Wilder Found, Cincinnati, 49-51; dir. European study group, U.S. Dept. State, 50. Consult, Brookings Instn, 51. Polit. Sci. Asn; Soc. Pub. Admin. Federal, state and local government; public law and administration. Publ: Judiciary in Ohio, Univ. Cincinnati Law Rev; Analysis and appraisal of the Ohio state constitution, 1851-1951; co-auth, Jurisdiction to pronounce void foreign ceremonies of marriage, Calif. Law Rev. Address: Dept. of Political Science, Miami University, Oxford, Ohio 45056.

CUNNINGHAM, PROF. WILLIAM BANNERMAN, b. Stellarton, N.S, July 16, 24; m. 51; c. 6. ECONOMICS. B.A, Acadia, 47; A.M, Brown, 50, univ. fel, 51, Ford Found. fel, 56, Ph.D.(econ), 57. Lectr. ECON, Acadia, 47-48; instr, Brown, 52-53; asst. prof, MT. ALLISON, 53-54, assoc. prof, 54-57, PROF. & HEAD DEPT, 57- Can. Dept. Labor int. fel, Int. Inst. Labor Studies, Geneva, Switz, 65-66. Mem. exec. coun, Can. Indust. Rels. Res. Inst, 67. Can. Polit. Sci. Asn. Labor law; industrial dispute settlement. Publ: Compulsory conciliation and collective bargaining: the New Brunswick experience, Indust. Rels. Center, McGill, 58; Labour relations boards and the courts, Can. J. Econ. & Polit. Sci, 11/64; Public employment, collective bargaining and the conventional wisdom: U.S.A. and Canada, Indust. Rels-Rels. Industrielles, 7/66. Address: Dept. of Economics, Mt. Allison University, Sackville, N.B, Can.

CUNNINGHAM, PROF. W(ILLIAM) GLENN, b. West Liberty, W.Va, Feb. 11, 08. GEOGRAPHY. B.A, California, Los Angeles, 31; M.A, Pennsylvania, 40, Ph.D, 50. Instr. geog, California, Los Angeles, 31-35, lectr, 46-51; instr. geog. & indust, Pennsylvania, 37-42; rep. econ. res. Am. Can. Co, 51-53; asst. field prod, Herbert Knapp Prods, 55-56; from instr. to PROF. EARTH SCI, LOS ANGELES CITY COL, 58- Prof, Seven Seas Div, Chapman Col, 66. Consult, Nat. Res. Planning Bd, 40-42. Ed. publications, Los Angeles Geog. Soc, 61- U.S.A, 42-46, Lt. Col. Asn. Am. Geog; Royal Geog. Soc. Economic geography; geography of manufacturing; geography of California and the Pacific, especially Polynesia; cultural geography; Melanesia. Publ: Aircraft industry: a study in industrial location; A map of flying weather, Ann. Asn. Am. Geog; Food for Tahiti, Econ. Geog. Address: Dept. of Earth Sciences, Los Angeles City College, 850 N. Vermont, Los Angeles, Calif. 90029.

CUNNYNGHAM, DR. JON, b. Jefferson City, Mo, Mar. 3, 35; m. 58; c. 3. ECONOMICS. B.A, Oberlin Col, 57; Ph.D.(econ), Chicago, 64. Instr. econ, Chicago, 61-62; econ. statistician, U.S. Bur. Census, 62-63; asst. prof. ECON, Columbia, 63-65, ASSOC. PROF, 65-66; OHIO STATE, 66-, DIR. FINANCIAL RES. CENTER, 67- Vis. res. assoc, econom. res. prog, Princeton, 62-63; res. assoc, Nat. Bur. Econ. Res, 63-; Ford Found. faculty res. fel, 65-66. Econ. Asn; Statist. Asn; Econom. Soc. Economic and econometric theory; the evaluation of econometric model forecasting. Publ: The spectral analysis of economic time series, U.S. Bur. Census, 63. Address: Dept. of Economics, Ohio State University, Columbus, Ohio 43210.

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CUPP, DR. WILLIAM L(EE), b. Davenport, Iowa, Sept. 23, 23; m. 46; c. 2. SOCIOLOGY. B.A, Iowa, 49, M.A, 50; fel, North Carolina, 53-54, Ph.D, 55. Instr. soc. sci, Iowa, 49-50; rehab. counsr, Umstead Youth Center, N.C, 50-51; instr. sociol, North Carolina, 51-53; pub. health & prev. med, upstate med. center, State Univ. N.Y, 54-57; from asst. prof. to ASSOC. PROF. SOCIOL, Butler, 57-64; ST. OLAF COL, 64- U.S.A.A.F, 43-45, Sgt. Fel. Sociol. Asn. Sociology of corrections; opinion process. Address: Dept. of Sociology, St. Olaf College, Northfield, Minn. 55057.

CURETON, DR. CHARLES BARTON, b. Newport, Tenn, Nov. 6, 31; m. 55; c. 4. PSYCHOLOGY. B.R.E, Ft. Wayne Bible Col, 58; Arizona State, 59-60; M.A, Memphis State, 61; Ed.D.(ed. psychol), Tennessee, 64. Guid. counsr, high sch, Tenn, 61-63; asst. prof. PSYCHOL, Huntington Col, 63-65; ASSOC. PROF, Asbury Col, 65-67; MALONE COL, 67- U.S.A, 51-53. Psychol. Asn; Nat. Ed. Asn. Experimental research in how the existing psychological presses affect student motivation as measured by academic achievement; personality development and counseling techniques. Address: Dept. of Psychology, Malone College, 515 25th St. N.W, Canton, Ohio 44709.

CURETON, PROF. EDWARD E(UGENE), b. San Jose, Calif, Jan. 16, 02; m. 31; 48; c. 2. PSYCHOLOGY. A.B, San Jose State Col, 25; M.A, Stanford, 27; Ph.D.(ed. psychol), Columbia, 31. Instr. ed, Territorial Nor. & Training Sch, Honolulu, 28-30; from assoc. prof. to prof, Ala. Polytech, 31-41; sr. ed. statistician, U.S. Off. Ed, D.C, 41-42; head test unit, civilian personnel br, U.S. Army Serv. Forces, 42-43; chief civilian personnel res, U.S. War Dept, 43-46; staff mem, Off. Naval Res. contract, Richardson, Bellows, Henry & Co, Inc, N.Y.C, 46-48; PROF. PSYCHOL, TENNESSEE, 48- Fel. AAAS; fel. Psychol. Asn; Psychomet. Soc.(pres, 46, treas, 47); Statist. Asn; Inst. Math. Statist. Psychological statistics; test construction; theory of mental measurement. Publ: Errors of measurement and correlation, Arch. Psychol, 31; Reliability and validity: basic assumptions and experimental designs, Ed. & Psychol. Measurement, 25: 327-346; Psychometrics, In: International encyclopedia of the social sciences, 68. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37916.

CURETON, DR. LOUISE W(ITMER), b. Washington, D.C, Apr. 8, 11; m. 48. PSYCHOLOGY. Litt.B, Rutgers, 31; M.S, Yale, 33, Ives fel. & Ph.D.(psychol), 35; Missouri, 33-34. Psychometrist, Warren State Hosp, Pa, 34; asst. & supvr. personnel standards, State Emergency Relief Admin. & State Dept. Pub. Assistance, Pa, 34-38; asst. prof. psychol, Fla. State Col. for Women, 38-41; psychologist, Adj. Gen's. Off, U.S. War Dept, Wash, D.C, 41-44; chief test develop. unit, U.S. Employ. Serv, 44-46; tests & measurement specialist, Off. U.S. Secy War, 46-47; psychologist, Adj. Gen's. Off. Dept. of Army, 47-48; assoc. prof. psychol, Tennessee, 48-50; indust. psychologist, 50-67; SR. SCIENTIST, AM. INSTS. RES, 67- Lectr, Tennessee, 58- Fel. AAAS; fel. Psychol. Asn; Psychomet. Soc. Test and measurement; learning and retention; association value of consonant syllables. Publ: Factor analysis of occupational apititude tests, Ed. & Psychol. Measurements; Association value of consonant syllables, J. Genetic Psychol; co-auth, The multi-aptitude test. Address: 2008 Velmetta Circle, Knoxville, Tenn. 37920.

CURNUTT, ROBERT HENRY, b. Oklahoma City, Okla, May 3, 26; m. 54; c. 2. PSYCHOLOGY. B.A, Okla. State, 50; M.S, Oklahoma, 51; Stanford, 56-57; U.S. Pub. Health Serv. grant, Utah, 67-68. Staff psychologist, Wichita Falls State Hosp, 51-52, chief psychologist, 52-53, 55-56; CLIN. PSYCHOLOGIST, Mendocino State Hosp, 57; NAPA STATE HOSP, 57- U.S.N, 44-46, 53-55, Lt.(jg). Psychol. Asn; Inter-Am. Soc. Psychol. Bender-Gestalt. Publ: Bender Gestalt test: diagnostic interpretation; Use of Bender Gestalt cut-off scores in identifying juvenile delinquents, J. Proj. Tech; The role of visual perception in the reproduction of Bender-Gestalt designs, J. Proj. Tech. & Personality Assessment, 65. Address: Dept. of Psychology, Napa State Hospital, Box A, Imola, Calif. 94558.

CURRAN, PROF. CHARLES A(RTHUR), b. Philadelphia, Pa, Oct. 9, 13. PSYCHOLOGY. B.A, St. Charles Col, 35; M.A, Ohio State, 41, Ph.D.(psychol), 44. PROF. PSYCHOL, St. Charles Col, 44-53; LOYOLA (ILL), 55- Vis. prof, Louvain, 54. AAAS; Psychol. Asn. Process and techniques of counseling therapy; personality dynamics; function of psychologists in psychosomatic research. Publ: Personality factors in counseling, Grune, 45; Counseling in Catholic life and education, Macmillan, 52; Counseling and psychotherapy: the pursuit of values, Sheed, 68. Address: Dept. of Psychology, Loyola University, 820 N. Michigan Ave, Chicago, Ill. 60611.

CURRAN, CHARLES D(ANIEL), b. Boston, Mass, Oct. 21, 06; m. 33; c. 3. ECONOMICS. B.S, U.S. Mil. Acad, 28; C.E, Cornell, 32, M.C.E, 33. Engr, Mass, Pa. & U.S. Govt, 35-40; exam, bur. budget, Exec. Off. President, 40-47; engr, Int. Boundary & Water Cmn, 47-50; sr. specialist eng. & pub. works, legis. reference serv, Library of Cong, 50-53; adminstr. task force water res. & power, Second Cmn. Orgn. Exec. Br. Govt, 53-55; private consult, 55-58; exec. dir, U.S. Study Cmn, Tex, 59-62; dir, waterway anal, Asn. Am. Railroads, 62-66; CONSULT. WATER RESOURCES, 66- Staff dir, subcmt. study civil works, U.S. House Reps, 51-53; consult. water resources, Food & Agr. Orgn. UN, Uruguay, Brazil & Libya, 67. C.Eng, 28-35, Lt. Soc. Civil Eng; Nat. Soc. Prfnl. Eng. Water resource development; planning; organization. Publ: Evaluation of federal navigation projects, Task Force Report Water Resources & Power, 6/55; Land and water resources planning in Texas, Paper 2989, Proc. Am. Soc. Civil Eng, 11/61; The high cost of low cost transportation, Proc. Am. Railway Eng. Asn, 6/64. Address: 4106 46th St. N.W, Washington, D.C. 20016.

CURRAN, DR. DANIEL JOHN, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CURRAN, DONALD JOSEPH, S.J, b. Buffalo, N.Y, Sept. 15, 26. ECONOMICS. A.B, St. Louis, 50, Ph.L, 51; Th.L, Innsbruck, 58; M.A. & Ph.D.(econ), Wisconsin, 63. Asst. prof. econ, Canisius Col, 63-67; RES. ASSOC, CAMBRIDGE CENTER SOC. STUDIES, 67- Summers, Resources For Future, Inc. grant, 64, vis. lectr, Wisconsin, 66. Res. assoc, N.Y. State Constitutional Convention, 67. Econ. Asn; Nat. Tax Asn. Public finance. Publ: The metropolitan problem: solution from within?, 9/63 & co-auth, Positive and negative tax credits, 3/66, Nat. Tax J; auth, Infra-metropolitan competition, Land Econ, 2/64. Address: Cambridge Center for Social Studies, 42 Kirkland St, Cambridge, Mass. 02138.

CURRAN, REV. GEORGE A(RTHUR), S.J, Philos, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

CURRAN, DEAN KENNETH J, b. Chicago, Ill, Nov. 29, 03; m. 30. ECONOMICS. B.S, Princeton, 25, M.A, 26, Ph.D.(econ), 41. For. mgr, Americo-Persian Develop. & Trading Corp, 26-30; asst. to mgr, Standard Brands, Inc, Ill, 30-36; instr. econ, Princeton, 38-41, asst. prof, 41-50; PROF. ECON, COLO. COL, 50-, DEAN, 63-, head dept. econ. & bus. admin, 50-63, acting pres, col, 67-68. U.S.A, 43-46, Lt. Col. Econ. Asn; Mkt. Asn. Antitrust policy. Publ: Excess profits taxation; Legal developments in marketing, J. Mkt. Address: Dept. of Economics & Business Administration, Colorado College, Colorado Springs, Colo. 80903.

CURRAN, DR. WARD S(CHENK), b. Springfield, Ill, June 26, 35. ECONOMICS, BUSINESS FINANCE. B.A, Trinity Col.(Conn), 57; Edward John Noble Found. grant, Columbia, 57-60, M.A, 58, Ph.D, 61. Instr. ECON, TRINITY COL.(CONN), 60-62, asst. prof, 62-67, ASSOC. PROF, 67-, FERRIS LECTR, FINANCE, 61- Econ. Asn; Finance Asn. Corporation finance; capital budgeting; public utilities. Address: Dept. of Economics, Trinity College, Hartford, Conn. 06106.

CURREY, DR. VIRGINIA, b. Gowrie, Iowa, May 6, 27; m. 54, 64; c. 3. GOVERNMENT. B.A, Iowa, 48, Ph.D.(polit. sci), 68; M.I.A, Columbia, 50; cert, Georgetown, 52; Fulbright scholar, Ankara, 52-53. Researcher Russian area, U.S. Govt, 50-52; INSTR. Eng, French Lycee, Cairo, Egypt, 54-55; Southern Methodist, 55-56; Eng. & govt, Texas, Arlington, 57-61; GOVT. & NATURE OF MAN, SOUTHERN METHODIST, 64- Mid. East Studies Asn. N.Am. Soviet and Middle East comparative politics; Soviet-Turkish relations; interdisciplinary studies. Address: 931 E. Mitchell St, Arlington, Tex. 76010.

CURRIE, DR. CARLETON H(AMMOND), b. Orleans, Mich, Jan. 9, 99; m. 26. SOCIOLOGY. B.S, Mich. State, 20; S.T.B, Boston, 24, M.S, Michigan, 25; A.M, Ohio State, 40, Ph.D, 46. Prof. sociol, W.Va. Wesleyan Col, 45-50; assoc. prof, Mt. Union Col, 50-55; asst. prof, Wayne State, 56-57; assoc. prof, Franklin Col, 57-65; admin. consult, Mackinac Col, 65-66, records officer, 66-67; RETIRED. Sociol. Asn. Factors affecting marital adjustment. Address: R.1, Harbor Springs, Mich. 49740.

CURRIER, FREDERICK P, b. Grand Rapids, Mich, Dec. 6, 23; m. 51; c. 3. ECONOMICS. A.B, Illinois, 48, M.A, 49; Chicago, 49-51. Co-pub, Morristown Sun, Tenn, 52-54; credit analyst, Detroit Bank, 54-55; asst. res. dir, Detroit Free Press, 55-59, res. mgr, 59-62; PRES, MKT-OPINION RES. CO, 62- Polit. consult. U.S.A, 43-46. Econ. Asn; Mkt. Asn. Studies of industries, the firm and markets. Publ: Economic theory and its application to newspapers, Journalism Quart; co-auth, What makes Romney run, Data Systs. News. Address: 1762 Fairway, Birmingham, Mich. 48009.

CURRY, PROF. LESLIE, b. Newcastle, Eng, Nov. 23, 22; m. 52; c. 3. GEOGRAPHY. B.A, Durham, Eng, 49; fel. & M.A, Hopkins, 51; Ph.D.(geog), New Zealand, 59. Res. officer, North. Indust. Group, 49-50; econ. affairs officer,

UN Secretariat, 51; asst, climat. lab, Hopkins, 52; instr. GEOG, Washington (Seattle), 52; lectr, New Zealand, 53-60; asst. prof, Maryland, 60-63; assoc. prof, Arizona State, 63-64; PROF, TORONTO, 64- Consult, C.W. Thorathwaite Assocs, 62- R.N, 41-46. Asn. Am. Geog; Regional Sci. Asn; Am. Geog. Soc. Climatology; economic and quantitative geography. Publ: Climatic change as a random series, Asn. Am. Geog. Ann, 62; Wave statistics model for climatic time series, Kans. Geol. Surv, 67; Central places in the random spatial economy, J. Regional Sci, 67. Address: Dept. of Geography, University of Toronto, Toronto, Ont, Can.

CURTI, DR. G(ABRIEL) PHILIP, b. San Francisco, Calif, Jan. 28, 14; m. 60; c. 1. EDUCATIONAL GEOGRAPHY. B.A, California, Los Angeles, 53, M.A, 55, Ph.D, 60. Asst. geog, California, Los Angeles, 52-57; simulation data specialist, Syst. Develop. Corp, 57-58, tech. asst, 58-59, tech. writer & ed, 59-63; asst. prof. GEOG, Calif. Lutheran Col, 63-66; ASSOC. PROF, CALIF. STATE COL. HAYWARD, 66- R.A.F, 40-45, Sgt. Asn. Am. Geog; Am. Geog. Soc; fel. Royal Geog. Soc. Cultural geography, especially European and Mediterranean, including North Africa; Via Egnatia; multicultural impact on the Macedonian tri-borderland. Publ: San Francisco-Oakland metropolitan area, W.C. Brown, 68; Colorado river, its utilization in southern California, Geography; Isle of man: geographical factors in the evolution of a political enclave, Asn. Pac. Coast Geogr. Yearbook, 61. Address: 833 Bedford St, Fremont, Calif. 94538.

CURTIN, PROF. WYLMA R(OSE), b. Williston, N.Dak, Dec. 6, 14; m. 46. STATISTICS, PSYCHOLOGY. A.B, Trinity Col.(D.C), 36; A.M, Catholic Univ, 37, Ph.D.(ed), 39. Assoc. prof. ed, Boston Col, 39-49; asst. prof, Catholic Univ, 49-54; prof, Loyola (La), 54-55; res. statistician, U.S. Dept. Commerce, Wash, D.C, 55-57; PROF. ED, CATHOLIC UNIV, 57- Psychol. Asn. Psychological testing; statistical analysis; psychology of learning. Publ: Basic statistics programmed for the IBM 1620 computer, Culverton, 65; Relative contribution of certain factors to individual differences in algebraic problem solving ability, J. Exp. Ed; Instructional research in the Boston public schools, Rep. Surv. Pub. Schs. Address: 9600 Culver St, Kensington, Md. 20795.

CURTIS, PROF. C(HARLES) G(RANT), b. Ft. Scott, Kans, May 12, 25; m. 51; c. 2. SOCIOLOGY. A.B, Indiana, 49; M.A, Chicago, 50; Pittsburgh, 50-52; Wisconsin, 52-61. From asst. prof. to ASSOC. PROF. SOCIOL, BELOIT COL. 52-, DIR, BELOIT COUNS. CENTER, 55-, ACAD. ADV. 64-, chmn. dept, 62-67. Grants, Danforth, 58-59; Eli Lilly Found, 60-61; Wis. fel, 61-62. Vis. prof, Assoc. Cols. Midwest's Cent. Am. Field Prog, Costa Rica, 65-66. Consult, Durand State Farm for Boys, Ill, 52; Wis. State Youth Cmt, 54-56; Wis. Cmt. Alcoholism, 55-61. U.S.N, 43-46. Sociol. Asn. Race and culture; alcoholism; delinquency and crime; current research in Central America: primary and secondary teachers' attitudes toward social change; continuing research in problems of alcoholism and drug use. Publ: How to pick the perfect mate & How to raise your children sucessfully, Coronet Mag; Relationship between principle and practice in interracial church congregations. Address: Dept. of Sociology, Beloit College, Beloit, Wis. 53512.

CURTIS, DEAN CLIFFORD A(USTIN), b. Lindsay, Ont, Nov. 23, 99. ECONOMICS. B.A, Toronto, 22; fel, Chicago, 23-26, Ph.D, 26. Assoc. prof. econ, Florida, 26-27; prof, QUEEN'S (ONT), 27-56, Sir John A. Macdonald prof. polit. & econ. sci. & head dept, 56-67, PROF. ECON. & DEAN SCH. GRAD. STUDIES, 67- Mem. bd. dirs, Can. Nat. Rwy, 67- Mayor, Kingston, Ont, 48-52. Chmn, Royal Cmn. Prices, 48-49. Econ. Asn; Can. Polit. Sci. Asn.(pres, 50). Government control of business; government finance. Address: Dept. of Economics, Queen's University, Kingston, Ont, Can.

CURTIS, PROF. E. LEWIS B, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

CURTIS, PROF. FRANK J(UDSON), JR, b. Philadelphia, Pa, Oct. 20, 21; m. 55; c. 3. POLITICAL SCIENCE. A.B, Ursinus Col, 43; M.A, Pennsylvania, 48. Vice consul, U.S. Foreign Serv, Am. Consulate Gen, Hamburg, Germany, 50-54, vice consul & sec. secy, Am. Embassy, London, Eng, 54-55; lectr. govt, McGill, 55-56; instr. AM. GOVT, Pittsburgh, 56-60; asst. prof, FERRIS STATE COL, 60-66; ASSOC. PROF, 66- U.S.A.F, 43-46, Res, 46-52, Sgt. Polit. Sci. Asn; Soc. Int. Law; Econ. Asn; Hist. Asn; Modern Lang. Asn. Am. Historical origin of states and other political institutions in northern Europe. Address: Dept. of History, Political Science and Economics, Ferris State College, Big Rapids, Mich. 49307.

CURTIS, DR. HENRY S(TODDARD), b. Washington, D.C, Feb. 7, 10; m. 37; c. 4. PSYCHOLOGY. A.B. Oberlin Col, 31, A.M, 32; Western Reserve, 34-36; Ph.D.(psychol), Michigan, 42. Voc. counsr, Cuyahoga County Child Welfare Bd, Cleveland, 37-41, chief voc. counsr, 42; chief clin. psychologist, Cleveland Regional Off, Vet. Admin, 46-65, chief psychologist, out patient sect, 65-66; PSYCHOL. CONSULT, U.S. PUB. HEALTH SERV. REGIONAL OFF. 1, NAT. INST. MENT. HEALTH, 66- Consult. clin. psychologist, Oberlin Col, 59-64. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 42-46, Capt. AAAS; fel. Psychol. Asn. Individual and group psychotherapy; projective techniques; mental health program development. Address: U.S. Public Health Service, M-H, J.F. Kennedy Federal Bldg, Boston, Mass. 02203.

CURTIS, PROF. JACK H(OMER), b. Brea, Calif, Apr. 21, 21; m. 47; c. 3. SOCIOLOGY. B.S, St. Louis, 48; M.A, New Mexico, 49; Ph.D, Stanford, 54. Instr. SOCIOL, Duquesne, 50-51; Idaho State Col, 51-53; res. assoc, Stanford Surv. Res. Facility, 53-54; asst. prof, St. Louis, 54-56; assoc. prof. & chmn. dept, Canisius Col, 56-60; PROF, Marquette, 60-63; SAN FRANCISCO, 63- Adv. ed, Sociol. Anal. U.S.N, 43-46. Fel. Sociol. Asn. Social psychology; urban and medical sociology. Publ: Social psychology, McGraw, 60; Psicologia social, Barcelona, Ed. Grijalbo, 62; Sociology: a high school text, Bruce, 66. Address: Dept. of Sociology, Urban Life Institute, University of San Francisco, San Francisco, Calif. 94117.

CURTIS, JAMES WYLIE, b. Madison, Ind, July 3, 13; m. 42; c. 2. PSYCHOLOGY. A.B, Kentucky, 37, M.S, 38. Res. psychologist, U.S. Forest Serv, Ky, 38-39; acting head psychol, Pikeville Col, 39-41; SUPVR. PSYCHOLOGIST, STATE DIV. VOC. REHAB, ILL, 47- Staff psychologist, sch. nursing, Springfield Mem. Hosp, 55-; consult. psychologist, Capitol Bank Springfield, 57- Mem. Am. Res. Center, Egypt, 58. U.S.A.A.F, 41-47, Lt. Col. Fel. AAAS; Psychol. Asn; Archaeol. Inst; Royal Numis. Soc; Indian Numis. Soc; Mex. Numis. Soc. Archaeological numismatics; semiprojective tests for personality analysis; aptitude and interest tests; media of exchange in ancient Egypt and India; personnel selection techniques in industry. Publ: Tetradrachms of Roman Egypt; Study of the relationship between hypnotic susceptibility and intelligence, J. Exp. Psychol. Address: 2117 Noble Ave, Springfield, Ill. 62704.

CURTIS, PROF. L(UCIEN) SIMINGTON, b. Montgomery, Ala, Dec. 9, 93; m. 62; c. 2. ECONOMICS. A.B, Harvard, 19; A.M, Columbia, 25; Ph.D. (econ), Chicago, 47. Prof. econ. & govt, Lincoln (Mo), 26-30; soc. sci, Stowe Teachers Col, 30-54; econ. & govt, Harris Teachers Col, 54-64; RETIRED. Vis. prof, Fisk, 47-48; guest prof, Atlanta, 48-49; lectr, Washington (St. Louis), 64-68; Fulbright-Hays vis. prof, Al-Hikma Univ. Baghdad, 66-67. Econ. Asn. Labor problems; economic theory; business combination and monopoly. Publ: Contrib, An introduction to modern economics; Economics, In: People's Encyclopedia. Address: 5857 Waterman, St. Louis, Mo. 63112.

CURTIS, PROF. MICHAEL RAYMOND, b. London, Eng, Sept. 11, 23; m. 56. COMPARATIVE GOVERNMENT. B.Sc, London Sch. Econ, 51; Ph.D, Cornell, 58. Lectr. POLIT. SCI, London Polytech, 51-54; asst, Cornell, 54-56; instr, Yale, 56-58; vis. asst. prof, Conn. Col, 58-59; Oberlin Col, 59-60; assoc. prof, Massachusetts, 60-61; RUTGERS, 61-65, PROF, 65- Polit. Sci. Asn; Soc. Polit. & Legal Philos. Publ: Central government; Western European integration, 65 & Comparative government and politics, 68, Harper. Address: Dept. of Political Science, Rutgers, The State University, New Brunswick, N.J. 08903.

CURTIS, PROF. QUIN F(ISCHER), b. Saginaw, Mich, Mar. 20, 08; m. 36; c. 4. PSYCHOLOGY. A.B, Michigan, 30, Ph.D.(psychol), 36; fel, Ohio Wesleyan, 30-31, A.M, 35. Asst. psychol, Michigan, 31-34, Rackham Brain Psychol. Res. Fund, 34-36; Nat. Res. Coun. fel, Cornell, 36-37, instr. physiol, 37-38; instr. PSYCHOL, Ohio State, 38-41; asst. prof. WEST VIRGINIA, 41-43, assoc. prof, 43-48, PROF, 48-, chmn. dept, 48-68. Fel. Psychol. Asn. Animal learning; experimental neurosis; interpersonal relations; history of psychology; undergraduate instruction. Address: Dept. of Psychology, West Virginia University, Morgantown, W.Va. 26506.

CURTIS, DR. RICHARD FARNSWORTH, b. Washington, D.C, Nov. 9, 31; m. 53; c. 2. SOCIOLOGY. B.A, Oberlin Col, 53; M.A, Michigan, 54, fel. 54-56, Ph.D, 59. Instr. SOCIOL, Michigan, 56-57; Yale, 57-60, asst. prof. 60-64; ASSOC. PROF, ARIZONA, 64- Sociol. Asn. Social organization; social stratification and mobility in the urban community; sociology of religion. Publ: Occupational mobility and membership in formal voluntary associations, Am. Sociol. Rev; Occupational mobility and urban social life, Am. J. Sociol; Occupational mobility and church participation, Soc. Forces. Address: Dept. of Sociology, University of Arizona, Tucson, Ariz. 85721.

CURTIS, PROF. ROBERT F(RANKLIN), b. Waltham, Mass, Sept. 20, 20; m. 48. POLITICAL SCIENCE. A.B, Bates Col, 42; lic, Geneva, 48; Ph.D, Georgetown, 59. Instr. polit. sci, Michigan, 52-55; polit. sci. & hist, WILSON COL, 55-57, asst. prof, 57-61, ASSOC. PROF. POLIT. SCI. & CHMN. DEPT, 61-U.S.N.R, 42-46, Lt. Polit. Sci. Asn. History; comparative government; French government and politics; international organization and relations; American government. Address: Dept. of Political Science, Wilson College, Chambersburg, Pa. 17201.

CURTIS, DR. WILLIAM DOUGLAS, b. Redlands, Calif, July 14, 22; m. 55; c. 1. PSYCHOLOGY. B.A, Redlands, 48; M.A, California, Los Angeles, 51; Ph.D.(psychol), Denver, 60. Probtn. officer, Riverside County, Calif, 51-52; sch. psychologist, Calif, 52-53; instr. psychol, San Bernardino Valley Col, 53-61; ASSOC. PROF. PSYCHOL. & COORDINATOR PSYCHOL, CALIF. STATE POLYTECH. COL, 61- Summers, vis. prof, Portland State Col, 63, Hartford, 64, Nat. Sci. Found. fel, California, 65 & psychologist, VISTA, Off. Econ. Opportunity, Wash, D.C, 66. U.S.A, 42-46, Sgt. Psychol Asn. Mental health; social group phenomenon; sensitivity training and encounter groups. Address: 941 Wadsworth, Pismo Beach, Calif. 93402.

CURTIS, DR. WILLIAM R, b. Franklinville, N.C, Oct. 27, 08; m. 35; c. 3. ECONOMICS. A.B, North Carolina, 30, A.M, 31; Ph.D.(econ), Illinois, 35. Teacher econ, Alabama, 35-36; from chief res. to acting chmn, State Unemploy. Compensation Cmn, N.C, 37-45; chief admin. standards div, bur. employ. security, Soc. Security Bd, 45-48; exec. secy, Interstate Conf. Employ. Security Agencies, 48-58; DEP. ADMINSTR. BUR. EMPLOY. SECURITY, U.S. DEPT. LABOR, 58- Mem. soc. security tech. staff, ways & means cmt, House Reps, 45-46; chief U.S. del, adv. cmn. salaried employees & prfnl. workers, Int. Labor Orgn, 54. Econ. Asn. Labor; social insurance. Address: Bureau of Employment Security, U.S. Dept. of Labor, Dept. of Labor Bldg, Washington, D.C. 20210.

CURTISS, PROF. JOHN HAMILTON, b. Evanston, Ill, Dec. 23, 09. MATHEMATICS, STATISTICS. A.B, Northwestern, 30; M.S, Iowa, 31; Ph.D.(math), Harvard, 35. Instr. math, Hopkins, 35-36; Cornell, 36-39, asst. prof, 39-43; asst. to dir, Nat. Bur. Standards, 46-47, chief appl. math. div, 47-53; sr. scientist, inst. math. sci, N.Y. Univ, 53-54; exec. dir, Am. Math. Soc, 54-59; PROF. MATH, MIAMI (FLA), 59-, chmn. dept, 59-62. Vis. lectr, div. appl. sci, Harvard, 53. U.S.N, 43-46, Lt. Comdr. Fel. AAAS; fel. Statist. Asn; fel. Inst. Math. Statist; Math. Soc: Math. Asn; Soc. Indust. & Appl. Math; Economet. Soc; Asn. Comput. Mach. Functional approximation theory; probability theory. Address: Dept. of Mathematics, University of Miami, Coral Gables, Fla. 33146.

CURTISS, DR. W(ILLIAM) MARSHALL, b. Stockton, Ill, Feb. 13, 04; m. 36; c. 3. ECONOMICS. B.S, Illinois 27; Ph.D, Cornell, 36. Asst. agr. econ, Cornell, 32-36, from asst. prof. to prof, 38-46; prof, Univ. Nanking, 37-38; ECONOMIST, FOUND. ECON. ED, 46-, DIR. COL-BUS. EXCHANGE PROG, 48-, EXEC. SECY, 46-48 & 52- Econ. Asn; Farm Econ. Asn; Acad. Polit.

Sci; Int. Conf. Agr. Econ. Agricultural economics; public administration and finance; philosophy of freedom. Publ: Co-auth, Chinese farm management; Tariff idea. Address: 30 S. Broadway, Irvington-on-Hudson, N.Y. 10533.

CURWOOD, DR. SARAH T(HOMAS), b. Binghamton, N.Y, Jan. 23, 16; wid; c. 2. SOCIOLOGY. A.B, Cornell, 37; Ed.M, Boston, 47; Ph.D.(sociol), Radcliffe Col, 56. Instr. early childhood ed, grad. sch, Harvard, 52-55; asst. prof. sociol. & psychol, Antioch Col, 55-61; assoc. prof. sociol, R.I. Col, 61-67; consult. & lectr, 67-68; LECTR. SOCIOL, NEW HAMPSHIRE, 68- Ella Lyman Cabot Found. study grant, 68- Consult, Mass. Cmt. Children & Youth, 64-66; proj. dir. res. & eval. div, Proj. Head Start, 65, consult, Head Start Eval. & Res. Center, Boston Univ, 67-, regional training officer, N.H. & Vt, 68-; consult, Providence Soc. Studies Curriculum Proj, R.I, 67- Fel. Sociol. Asn. Family and social stratification; sociological theory and minority problems; urban sociology. Publ: Head Start in action, Mass. Cmt. Children & Youth, 66. Address: R.F.D. 1, Box 38, East Barrington, N.H. 03825.

CUSHING, DR. ROBERT GALE, b. Concord, N.H, Oct. 14, 38; m. 60; c. 2. SOCIOLOGY. A.B, Dartmouth Col, 60; M.A, Indiana, 64, Ph.D.(sociol), 67. ASST. PROF. SOCIOL, TEXAS, AUSTIN, 66- Sociol. Asn; Statist. Asn. Deviant behavior; social psychology; research methods and statistics. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

CUSHMAN, PROF. FRANK M, b. Malden, Mass, Oct. 2, 16; m. 45; c. 2. TRANSPORTATION ECONOMICS. B.S, Massachusetts, 38; M.A, Pennsylvania, 40. ASSOC. PROF. ECON. & DIR. TRANSPORTATION & TRAFFIC MGT. INST, NORTHEASTERN, 49- Pres, Frank M. Cushman Assocs, Transportation Consult. U.S.A, 41-45, Capt. Econ. Asn. Transportation and traffic management. Publ: Manual of transportation law; Transportation for management; co-auth, Handbook of business administration, McGraw, 67. Address: 5 Carbrey Ave, Sharon, Mass. 02067.

CUSHMAN, PROF. HAROLD ROBERT, b. Ferrisburg, Vt, Dec. 21, 20; m. 47; c. 4. AGRICULTURAL EDUCATION. B.S, Vermont, 41, M.A, 49; Ph.D. (agr. ed), Cornell, 51. Teacher, Peacham Acad, Vt, 41-42; pub. sch, 45-48; asst. state supvr. agr. ed, State Dept. Ed, 48-49; asst, Cornell, 49-51; prof. AGR. ED. & head dept,Vermont, 51-55; PROF, CORNELL, 55- Vis. prof, Philippines, 58-59. U.S.A, 42-46, 1st Lt. Voc. Asn. Off-farm agricultural occupations; occupational experience programs; young farmer programs; teaching agriculture and teacher preparation. Publ: Co-auth, Off-farm agricultural occupations in New York, 65 & Directed work-experience programs, 66, Cornell; auth, Organizing and conducting young farmer programs, Cornell, 67. Address: 305 Ithaca Rd, Ithaca, N.Y. 14850.

CUSHMAN, DR. ROBERT E(UGENE), b. Akron, Ohio, Mar. 27, 89; m; c. 2. GOVERNMENT, POLITICAL SCIENCE. A.B, Oberlin, 11, D.Litt, 46; Ph.D, Columbia, 17. Instr. polit. sci, Illinois, 15-18, assoc, 18-19; assoc. prof, Minnesota, 19-22, prof, 22-23; govt, Cornell, 23-28, Goldwin Smith prof, 28-57, head dept, 23-46, dir. res. in civil liberties, 43-57; ED-IN-CHIEF DOCUMENTARY HIST. OF RATIFICATION OF CONSTITUTION, NAT. HIST. PUB. CMN, NAT. ARCH, WASH, D.C, 58- Polit. Sci. Asn.(pres, 43); Philos. Soc. American governmental institutions; constitutional decisions of the Supreme Court; independent regulatory commissions; civil liberties. Address: River House, 1111 Army-Navy Dr, Arlington, Va. 22202.

CUSHMAN, DR. ROBERT F(AIRCHILD), b. Champaign, Ill, Nov. 28, 18; m. 42; c. 2. POLITICAL SCIENCE. A.B, Cornell, 40, M.A, 48, Ph.D.(govt), 49. From instr. to asst. prof. GOVT, Ohio State, 49-53; ASSOC. PROF, N.Y. UNIV, 53- U.S.A.A.F, 42-46. Polit. Sci. Asn. American constitutional and administrative law. Publ: Public support of religious education in American constitutional law, Ill. Law Rev; Holy Bible and the public schools & Incorporation: due process and the Bill of Rights, 66, Cornell Law Quart. Address: 27 Bennett Ave, Huntington Station, N.Y. 11746.

CUSSLER, DR. MARGARET T(HEKLA), b. Jersey City, N.J, Aug. 25, 11. SOCIOLOGY. Whitney fel. & M.A, Radcliffe Col, 41, Ph.D.(sociol), 43. Asst. tech. adv, Fed. Security Agency, 41-42; ed, info. films div, Eastman Kodak Co, 44-45; study dir. spec. surv, bur. agr. econ, U.S. Dept. Agr, 48; chief eval, int. motion pictures serv, U.S. Info. Agency, 51-53; asst. prof. SOCIOL, MARYLAND, 54-62, ASSOC. PROF, 62-, gen. res. bd. grant, 60. Nat. Inst. Ment. Health grant, 61. Pres, Soc. Documentary Films, 45-; pres, Margaret Cussler Assocs, 54-; grant, Am. Library Asn, 56; Nat. Fedn. Bus. & Prfnl. Women's Res. Found, 56-57; food economist, U.S. Dept. Agr, 58; fel, Inter-Univ. Coun. Training Inst. Soc. Geront, 59; res. contracts, U.S. Dept. State, 63 & Metrop. Wash. Coun. of Govts, 67; U.S. Pub. Health Serv. res. grant, 64-66; vis. assoc. prof, Cornell, 65-66. Consult, U.S. Dept. State, 53; Nat. Inst. Ment. Health, 55; Nat. Fedn. Bus. & Prfnl. Women's Res. Found, 59. Sociol. Asn; Soc. Appl. Anthrop. Methodology; communication; medical sociology. Publ: Twixt the cup and the lip; The woman executive; co-auth, Dentists, patients and auxiliaries, Univ. Pittsburgh, 68. Address: 4704 Harvard Rd, College Park, Md. 20740.

CUSTER, PROF. JUDSON SAMUEL, b. Lima, Ohio, Oct. 2, 18; m. 46; c. 2. EDUCATIONAL PSYCHOLOGY, COUNSELING. B.M, North Texas State, 40, M.M, 41; Ed.D.(hist. & philos. of ed, ed. psychol), 50. Prof. music, Lamar Col, 46-47; PROF. ED. & PSYCHOL, CHMN. DEPT. ED. & DIV. SOC. SCI. & DIR. TESTING & COUNSELING, SOUTHWESTERN (TEX), 49- Asst. dir. teacher ed, Tex. Ed. Agency, 56-57. U.S.A.A.F, 43-46. Psychol. Asn. History and philosophy of education; counseling psychology; assessment of college characteristics. Publ: Thought and method, Southwest. Mag. Address: 1304 Vine, Georgetown, Tex. 78626.

CUTHBERT, PROF. MARION, Sociol, Anthrop, see 10th ed, Soc. & Behav. Vols.

CUTHBERTSON, DR. GILBERT MORRIS, b. Warrensburg, Mo, Nov. 20, 37. POLITICAL SCIENCE. A.B, Kansas, 59; Woodrow Wilson fel, Harvard, 60-62, univ. fel. & Ph.D.(polit. sci.), 63. ASST. PROF. POLIT. SCI, RICE, 63-, RESIDENT ASSOC, WILL RICE COL, 64-, univ. fels, 64-65 & 66-67. Rev. consult, Choice, 66- Polit. Sci. Asn. Myth; power; value structures. Publ: Political power, Rice Univ. Studies, 68; Winston Churchill, Am. J. Correctional Ed. Address: 319 Fondren Library, Rice University, Houston, Tex. 77001.

CUTLER, DR. ADDISON T(HAYER), b. New York, N.Y, Nov. 21, 03; m. 33; c. 2. ECONOMICS, STATISTICS. A.B, Amherst Col, 24; M.A, North Carolina, 26; fel, Brookings Inst, 26-27, Ph.D, 30. Asst. prof. econ, North Carolina, 27-29; instr, Columbia, 29-37; prof. econ. & head dept, Fisk, 37-42; chief economist & price exec, Off. Price Admin, D.C, 42-47; econ. analyst & writer, Int. Labor Off, 47; trade economist, Fed. Reserve Bank, 47-50, sr. economist, 50-55, ed. res. pubs, 55-59, spec. economist & bank officer, 59-63, asst. v.pres. & economist, 63-67; PROF. ECON, CINCINNATI, 67- Econ. Asn; Statist. Asn; Regional Sci. Asn; Asn. Bus. Econ. Industrial organization; current business analysis and forecasting; monetary policy; regional economics. Publ: Co-auth, Problem economics; auth, Price control in steel; Labor legislation in thirteen southern states, South. Econ. J. Address: 4084 Reading Rd, Cincinnati, Ohio 45229.

CUTLER, PROF. H(AROLD) H(ARRIS), b. Parawan, Utah, Nov. 30, 91; m. 14; c. 6. FINANCE. B.S, Utah State Agr. Col, 33, M.S, 34; Ph.D.(econ), Iowa State Col, 49. Head dept. commerce, Ricks Col, 22-32; assoc. prof. agr. econ, Utah State Agr. Col, 33-45; prof. BANKING & FINANCE, UTAH, 46-60, EMER. PROF, 60- Fels, Equitable Life Assurance Soc, 53, New York Life Ins. Co, 53 & Am. Fore Ins. Group, 54. Treas-mgr, Univ. Utah Employees Credit Union, 56-68; dir, Utah Credit Union League, 58-, pres, 64-66. Econ. Asn. Insurance; banking. Publ: Study of property tax levies in Utah, 1900-1949; Study of bank failures in Utah, 1930-1935. Address: 535 S. Second East, Salt Lake City, Utah 84111.

CUTLER, DR. HOWARD A(RMSTRONG), b. Webster City, Iowa, Apr. 27, 18; m; c. 3. ECONOMICS. B.A, Iowa, 40, M.A, 41; Ph.D.(econ), Columbia, 52. Instr. econ, Illinois, 48-50, asst. prof, 51, asst. to dean, col. commerce & bus, 50-51; asst. prof. econ, Pa. State, 51-53, assoc. prof. & chmn. dept, 53-58, dir. gen. ed. & asst. to v.pres. acad. affairs, 58-62, prof. & asst. to pres, 62; prof. econ. & acad. v.pres, Alaska, 62-66; EXEC. V.PRES, INST. INT. ED, 66- Carnegie intern & vis. assoc. prof, Chicago, 55-56. Managing ed, J. Gen. Ed, 60-62. U.S.N.R, 42-46, Lt. Econ. Asn; Statist. Asn. Theory; psychology; human resources. Address: Institute of International Education, 809 United Nations Plaza, New York, N.Y. 10017.

CUTLER, DR. IRVING H(ERBERT), b. Chicago, Ill, Apr. 11, 23; m. 51; c. 2. GEOGRAPHY. M.A, Chicago, 48; Ph.D.(geog), Northwestern, 64. Housing investr, U.S. Dept. Labor, 46-47; teacher, high schs, Mich. & Ill, 48-57; geogr, transportation econ. br, Corps Army Eng, 57-58; instr. soc. sci, Crane Jr. Col, 58-60; teaching asst. GEOG, Northwestern, 60-61; asst. prof, CHICAGO STATE COL, 61-66, ASSOC. PROF, 66- Lectr, DePaul, 67; film script writer & consult, Ginn & Co, Mass, 64-65; Jour. Films, Ill, 67-; Consult, Off. Econ. Opportunity, Ill, 65-66. U.S.N, 43-46, Lt.(jg). Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Industrial, transportation and urban geography; geography of Anglo-America and South America. Publ: The Chicago-Milwaukee corridor: a geographic study of intermetropolitan coalescence, Northwestern Univ. Studies in Geog, 65; co-auth, Pembroke Township: a research report on problems and possibilities, Off. Econ. Opportunity, 66; auth Some aspects of passenger transportation in the Chicago-Milwaukee corridor, Mass Transportation Series, Vol. II, 67. Address: Dept. of Geography, Chicago State College, 6800 S. Stewart Ave, Chicago, Ill. 60621.

CUTLER, DR. NEAL E(VAN), b. Chicago, Ill, Aug. 31, 43; m. 66. POLITICAL SCIENCE. B.A, Southern California, 65; Woodrow Wilson fels, Northwestern, 66-68, M.A, 66, Ph.D.(polit. sci), 68. RES. SCIENTIST, OAK RIDGE NAT. LAB, 68- Summer res. assoc, Oak Ridge Nat. Lab, 66 & 67. Polit. Sci. Asn; Sociol. Asn; Asn. Comput. Mach. Political behavior as analyzed in terms of generational differences; secondary analysis of archival survey data by way of cohort analysis; further focus on statistics; methodology; applications of computers to political analysis. Publ: Co-auth, Cumulative index to Midwest J. Polit. Sci, 5/66; Time-oriented explanations of national security beliefs: cohort, life-stage..., Papers of Peace Res. Soc, (in press), 68. Address: 121 Aspen Lane, Oak Ridge, Tenn. 37830.

CUTLER, SIDNEY J(OSHUA), Med. Statist, Epidemiol, see 11th ed, Phys. & Biol. Vols.

CUTLER, PROF. T(HEODORE) H(AROLD), b. Des Moines, Iowa, Aug. 4, 07; m. 33; c. 2. PSYCHOLOGY. B.A, Drake, 29; Harvard, 29-30, 32-33; fel, Colorado, 31-32, Ph.D.(ed. psychol), 48. Instr. psychol, DENVER, 34-39, asst. prof, 39-49, prof. & chmn. personnel & indust. rels, 49-55, dean col. bus. admin, 55-66, PROF. ADMIN. SCI, 66- Indust. psychologist, Ralston Purina Mills, Mo, 30-31; asst. mgr, State Employ. Serv, Colo, 33-35; regional personnel adv. Resettlement Admin, Calif, 35-37; chief exam. & consult, Civil Serv. Cmn, Colo, 41-42; regional personnel officer, Off. Price Admin, 42-43; spec. exam, U.S. Civil Serv. Cmn, 50. Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. U.S.N.R, 43-46. Fel. Psychol. Asn; Indust. Rels. Res. Asn. Emotions in business and industry; personality; motivation. Publ: 1947 labor relations in Denver manufacturing; St. Louis Missouri employment; Personnel policies and practices for social agencies. Address: College of Business Administration, University of Denver, Denver, Colo. 80210.

CUTLIFF, DR. LUCY REED, Psychol, Ed, see WILSON, DR. LUCY REED.

CUTLIP, PROF. SCOTT M(UNSON), b. Buckhannon, W.Va, July 15, 15; m. 47; c. 1. JOURNALISM. A.B, Syracuse, 39; Ph.M, Wisconsin, 41. Dir. pub. rels, State Rd. Cmn, W.Va, 41-42; asst. prof. JOUR, WISCONSIN, 46-47, assoc. prof, 49-58, PROF, 58-, asst. to pres, 47-49. Vis. prof, Cornell, 55-56; lectr, Latin Am. Center Adv. Studies in Jour, Ecuador, 62-64, 67; vis. prof, Utah State, 67. Summers, vis. prof, Idaho, 55-58. Consult, gen. supt. schs, Chicago, 67; mem, pub. affairs adv. cmt, U.S. Air Force Acad, 68-70. U.S.A.A.F, 42-45, Maj. Asn. Ed. Journalism; Orgn. Am. Historians. History, theory and practice of public relations. Publ: Co-auth, Effective public

relations, Prentice-Hall, 3rd. ed, 64; auth, Fund raising in the United States, Rutgers, 65; A public relations bibliography, Univ. Wisconsin, 2nd ed, 65. Address: 142 Larkin St, Madison, Wis. 53705.

CUTRIGHT, DR. PHILLIPS, b. Wooster, Ohio, Mar. 1, 30; m. 65. SOCIOLOGY. B.A, Col. Wooster, 55; Ph.D.(sociol), Chicago, 60. Asst. prof. sociol, Washington State, 60-61; Dartmouth Col, 61-62; soc. sci. anal, Soc. Security Admin, 63-65; assoc. prof. SOCIOL, Vanderbilt, 65-68; PROF, WASHINGTON (ST. LOUIS), 68- Consult, Off. Ed, 65-66; Soc. Security Admin, 65-66, proj. dir. on res. grants, 65-69. U.S.A.F, 51-53. Sociol. Asn; Pop. Asn. Political sociology; family; fertility. Publ: Co-auth, Hostage America, Beacon, 63; auth, Inequality, Am. Sociol. Rev, 67; Income redistribution, Soc. Forces, 67. Address: Dept. of Sociology, Washington University, St. Louis, Mo. 63130.

CUTSHALL, PROF. ALDEN (DENZEL), b. Olney, Ill, Apr. 12, 11; m. 33; c. 2. GEOGRAPHY. B.Ed, East Ill. State Col, 32; M.A, Illinois, 35; Northwestern, 35-36; univ. scholar, Ohio State, 39-40, Ph.D.(geog), 40. Teacher, pub. sch, Ill, 32-34, 37-39; asst. GEOG, Ohio State, 36-37; from instr. to assoc. prof, ILLINOIS, URBANA & CHICAGO, 40-55, PROF, 55-, HEAD DEPT, 64-, in charge geog, 62-64. Fulbright scholar, Philippines, 50-51, Fulbright lectr, 57-58; assoc. mem, center adv. study, Illinois, 62-63. From res. analyst to acting sect. chief, Off. Strategic Serv, 44-46; specialist, UNESCO, Manila, 51. AAAS; Asn. Am. Geog; Nat. Coun. Geog. Ed. Agricultural, regional and political geography; geography of manufacturing; geography of the Philippines, Pacific Asia, humid tropics and midwestern United States. Publ: Assoc. auth, World political geography, 48 & rev. ed, 57, Crowell; auth, The Philippines: nation of islands, Van Nostrand, 64; The Philippine sugar industry; status and problems, J. Geog, Vol. 50. Address: Dept. of Geography, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

CUTSUMBIS, DR. MICHAEL NICHOLAS, b. New York, N.Y, Mar. 1, 35; m. 55; c. 3. SOCIOLOGY. B.A, Ohio State, 57, M.A, 60, Ph.D.(sociol), 65. Res. assoc, Ohio State, 57; res. exec. criminol, Ohio Bur. Parole, 58-60; instr. SOCIOL, Ohio State, 60-64; ASST. PROF, FRANKLIN & MARSHALL COL, 64- Res. assoc, Ohio Dept. Health, 59. Res. consult, Pa. State, 67. AAAS; Sociol. Asn; Acad. Polit. & Soc. Sci. Cross cultural research on mental disorders of American ethnic groups; development of social psychological instruments for use in cross cultural research. Publ: A manual for the cross-cultural study of social psychological phenomena, Surv. Center, Univ. California, 67; Relationship of sociological factors to self reported anxiety, Ed. & Psychol. Measurements, 68; Selective bibliography for the sociological study of Greek-Americans, (in prep). Address: Dept. of Sociology, Franklin & Marshall College, Lancaster, Pa. 17603.

CUTT, DR. JAMES, b. Edinburgh, Scotland, June 22, 37; m. 64; c. 2. ECONOMICS. M.A, Edinburgh, 60; M.A, Toronto, 61, Ph.D.(econ), 66. Lectr. ECON, YORK, 63-66, ASST. PROF, 66- Can. Coun. grant, India, summer, 67. Am. Econ. Asn; Can. Econ. Asn; Scottish Econ. Soc. Public finance; development economics; quantitative methods. Publ: Taxation and economic development in India, Praeger, 68; co-auth, Readings in Canadian public economics, Methuen, 68; auth, The selective employment tax, Can. Tax J, 1-2/67. Address: Dept. of Economics, York University, Toronto 12, Ont, Can.

CUTTS, DR. NORMA E(STELLE), b. New Haven, Conn, Sept. 23, 92. PSYCHOLOGY. B.A, Mt. Holyoke Col, 13; M.A, Yale, 22, Ph.D, 33. Supvr. dept. psychol, pub. schs, N.H, 18-47; dir. grad. prog, New Haven State Teachers Col, 54-57; prin, Hillsboro Country Day Sch, 58-65; RETIRED. Consult, State Cmt. Gifted, Conn, 55-56. Fel. Psychol. Asn. Education; discipline; child psychology; bright children. Publ: Ed, School psychologist at mid-century; co-auth, Teaching the bright and gifted & Providing for individual differences in the elementary school. Address: 2070 N.E. First St, Deerfield Beach, Fla. 33441.

CUTUJIAN, PROF. FRANCES C(ATHERINE), b. New York, N.Y, Oct. 28, 97. PSYCHOLOGY. A.B, Vassar Col, 20, A.M, 22; Van Loon fel. from Vassar to Yale, 27-28, Ph.D.(psychol), 37. Asst. PSYCHOL, Vassar Col, 20-23, instr, 23-27; Wheaton Col.(Mass), 29-38; HOOD COL, 38-39, asst. prof, 39-44, acting head dept, 45-46, assoc. prof, 45-48, head dept, 47-65, prof, 48-65, EMER. PROF, 65- Psychol. Asn. Child, experimental and social psychology; concept of similarity; racial awareness and preference in young children. Address: 1004 Rosemont Ave, Frederick, Md. 21701.

CUZZORT, PROF. RAY P(AUL), b. Cincinnati, Ohio, Dec. 8, 26; m. 51; c. 1. SOCIOLOGY, DEMOGRAPHY. B.A. & M.A, Cincinnati, 51; Ph.D.(sociol), Minnesota, 55. Instr. sociol, Carlton Col, 55-56; res. assoc. demog, pop. res. & training center, Chicago, 56-57; asst. prof. sociol, Kansas, 57-61, assoc. prof, 61-63; res. assoc. higher ed, Inter-Univ. Cmn. on Superior Student, Colorado, 63-65; James Center, Illinois, 65-66; PROF. INTEGRATED STUDIES, COLORADO, 66- Demography; relationship between population and economic factors. Publ: Co-auth, Statistical geography, Macmillan, 58; auth, Humanity and modern sociological thought, Holt, 69; Suburbinization of service industries within standard metropolitan areas, Scripps Found. Res. Pop. Probs. Address: Dept. of Integrated Studies, University of Colorado, Boulder, Colo. 80302.

CYERT, PROF. RICHARD MICHAEL, b. Minneapolis, Minn, July 22, 21; m. 46; c. 3. ECONOMICS, INDUSTRIAL ADMINISTRATION. B.S, Minnesota, 43; Ph.D.(econ), Columbia, 51. Asst. prof. econ. & indust. admin, CARNEGIE-MELLON UNIV, 49-55, assoc. prof, 55-60, PROF. INDUST. MGT, 60-, DEAN GRAD. SCH. INDUST. ADMIN, 62-, head dept. indust. mgt, 60-62. Ford Found. faculty res. fel, 59-60; Guggenheim fel, Univ. Cambridge, 67-68. Consult, Touche, Ross, Bailey & Smart, 53-; Gulf Oil Corp, 59- U.S.N.R, 43-46, Lt. Econ. Asn; Statist. Asn; Economet. Soc; Inst. Mgt. Sci. Decision-making within the firm; integration of organization theory and the theory of the firm in economics; statistical sampling theory in accounting. Publ: Co-auth, Sampling techniques in accounting, Behavioral theory of the firm & Market structures and the theory of the firm. Address: Dept. of Industrial Management, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

CYMBALISTY, DR. BOHDAN YAROSLAV, b. Bowsziw, Ukraine, Aug. 5, 19. PSYCHOLOGY. Ph.D, Göttingen, 48. Mem. ed. staff, J. Oriente Europeo, 52-59; dir. psychol, STATE HOME FOR BOYS, 60-62, DIR. BODMAN YOUTH CLIN, 62- Psychol. consult, Bur. Children Serv, 62-; N.J. Rehab. Cmn, 64- Psychol. Asn; Ukrainian Acad. Arts & Sci. U.S. Juvenile delinquency; cultural anthropology; social psychology. Publ: The assimilation and contrast in size in geometric optical illusions, Psychologische Forschung; The family and the national character, Problemy; The place of psychoanalysis. Address: State Home for Boys, Jamesburg, N.J. 08831.

CYNAMON, DR. MANUEL, b. New York, N.Y, Oct. 21, 15; m. 40; c. 2. PSYCHOLOGY, STATISTICS. B.S.S, Brooklyn Col, 35; M.S, City Col. New York, 40; Ph.D.(ed), Columbia, 52. Exam, U.S. Civil Serv. Cmn, 40-43; technician, personnel res. sect, Adj. Gen. Off, U.S. Dept. Army, 43-45, dir. testing, hq, First Army, 45-46; res. assoc, Am. Inst. Res, 46-47; Ed. Testing Serv, 47-49; instr. ED, BROOKLYN COL, 49-57, asst. prof, 58-66, ASSOC. PROF, 67- Psychol. Asn; Psychomet. Soc; Ed. Res. Asn; Coun. Measurement in Ed. Concept formation; thinking; computer use in educational administration. Address: Dept. of Education, Brooklyn College, Brooklyn, N.Y. 11210

CYPIN, JACK G(OODMAN), b. Bialystok, Poland, Nov. 7, 15; nat; m. 41; c. 3. ECONOMICS, SOCIOLOGY. B.S.S, City Col. New York, 38; A.M, Columbia, 47. Teacher econ. & soc. studies, City Col. New York, 47-49; instr, Long Island, 49-53; res. consult. USSR, Cmt. for Liberation, 53-54; lectr. econ, Hofstra Col, 54; Queens Col.(N.Y), 55-; sr. economist, State Dept. Labor, 60-66; SR. RES. ANALYST, STATE DEPT. SOC. SERV, 66- Res. consult, Guild Publicity Assocs, 49-50; ed. & consult, Claridge Pub. Corp, 51-52. U.S.N, 43-46. Econ. Asn; Sociol. Asn; Soc. Appl. Anthrop; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Indust. Rels. Res. Asn. Relationship of present and past social organization to social change, especially the changing role of those receiving public assistance in New York State; comparison of differing economic systems; process of organizational decision making. Publ: Democratic planning & freedom, Inst. Soc. Studies Bull; Consumer revolt in the USSR, The Call; The economic front, In: Robot revolution. Address: 15 Hill Lane, Levittown, N.Y. 11756.

CZAKO, DR. JOSEPH, b. Hungary, Jan. 19, 15; nat. ECONOMICS. Ph.D.(polit. sci), Budapest, 36, LL.D, 40. Rapporteur, Hungarian Off. For. Trade, 40; 2nd secy, Ministry For. Affairs, 40-47; secy. gen, European Fedn. Zootech, Italy, 50-51; Researcher & Cent. European Econ. Orgn. Specialist, N.Y, 51-57; proj. nat. income in East Cent. Europe, Columbia, 57-59; cent. planned economies sect, div. gen. econ. res. & policies, UN, 60; MEM. STAFF, NAT. INCOME DIV, U.S. DEPT. COMMERCE, D.C, 61- Econ. Asn. National income and income distribution; central European economic organization. Address: 4908 41st St. N.W, Washington, D.C. 20016.

CZEH, DR. ROBERT STEPHEN, b. New York, N.Y, Mar. 21, 31; m. 52; c. 8. EXPERIMENTAL PSYCHOLOGY. B.A, Queens Col.(N.Y), 52; M.A, Iowa, 54, Ph.D, 55. Res. scientist, HumRRO, George Washington, 55-58; maintenance analyst, Hughes Aircraft Co, 58-59; specialist human factors, Defense systs. dept, Gen. Elec. Co, 59-64, mem. prfnl. staff, TEMPO, D.C, 64-67; PRIN. PSYCHOLOGIST, CENT. ATLANTIC REGIONAL ED. LAB, 67- AAAS; Psychol. Asn; Psychonomic Soc. Research and development of education systems. Address: 12529 Montclair Dr, Silver Spring, Md. 20904.

CZIKANN-ZICHY, PROF. MAURICE, b. Pozsony, Hungary, Dec. 18, 07; U.S. citizen. ECONOMICS. Dr.rer.pol, Budapest, 31; Dr.Oec, Innsbruck, 35. Asst. prof. econ, Hungarian Univ. Econ, 32-38; diplomatic serv, Hungarian Ministry For. Affairs, 38-48; free lance author, Austria, 48-50; res. assoc. econ, Mid European Studies Center, New York, 51-55; asst. prof. hist. & econ, IMMACULATA COL.(PA), 56-62, assoc. prof. ECON, 62-67, PROF, 67- Ford Found. study grant economet, Pennsylvania, 64-65; Gen. Elec. Co. res. grant, Virginia, 67. Econ. Asn; Economet. Soc; Hist. Asn. Economic planning of socialist and non-socialist countries; comparative economic systems; international economics. Publ: Hungarys' foreign trade 1920-1948, 52 & Economic planning in Hungary 1948-1954, 55, Mid. European Studies Center; Turmoil in South Tyrol, Exposition, 61. Address: Dept. of Economics, Immaculata College, Immaculata, Pa. 19345.

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DAANE, DR. J(AMES) DEWEY, b. Grand Rapids, Mich, July 6, 18; m. 63; c. 2. ECONOMICS. A.B, Duke, 39; Littauer fel, Harvard, 45-47, M.P.A, 46, D.P.A, 49. Statistician, Fed. Reserve Bank Richmond, Va, 39-47, monetary economist, 47-52, asst. v.pres, 52-57, v.pres, 57-60; asst. to secy, U.S. Dept. Treas, 60-61, dep. undersecy. monetary affairs, 61-63; MEM. BD. GOV, FED. RESERVE SYST, 63- Mem. faculty, sch. bus. admin, Richmond, 47- V.pres. & econ. adv, Fed. Reserve Bank Minneapolis, Minn, 60. Econ. Asn; Finance Asn. Monetary theory and policy; money and banking; business cycles. Publ: Fifth Federal Reserve District, a study in regional economics; Interest rate movements since 1940, South. Econ. J; Balance of payments of the Fifth Federal Reserve District, Monthly Rev. Address: 1137 N. Ivanhoe St, Arlington, Va. 22205.

DABASI-SCHWENG, DR. LORAND, b. Besztercebanya, Hungary, Aug. 18, 05; U.S. citizen; m. 44. ECONOMICS, AGRICULTURAL ECONOMICS. B.Sc. & M.Sc, Palatine Joseph Univ, Budapest, 28, Ph.D.(econ), 40; cert. soc. sci, London Sch. Econ, 29. Res. asst. appl. statist, Palatine Joseph Univ, 35-40; economist analyst, Hungarian Nat. Bank, Budapest, 40-46, dir. econ. res. dept, 45, 46-48; consult. econ, Nat. Planning Asn, D.C, 49; res. assoc. econ, Mid-European Studies Center, D.C. & N.Y, 50; tech. assistance expert, Jordan, Food & Agr. Orgn, Rome, 51-53; consult. econ. appraisal of hwys, El Salvador, Mex, Panama, Haiti & Guatemala, Int. Bank Reconstruct. & Develop, 53-55; dir. rural community develop. proj. in Bolivia, Int. Labor Orgn, Geneva, 55-56; adv. agr. econ. Guatemala, Klein & Saks, D.C, 56-57; adv. statist. orgn. & census planning in Korea, Surv. & Res. Corp, D.C, 58-60; res. assoc. regional econ. planning in Venezuela, joint center urban studies, Mass. Inst. Tech-Harvard, 61-63; agr. economist econ. appraisal hwy. Colombia & Peru, Tippetts-Abbett-McCarthy, N.Y, 64; econ. appraisal irrigation projs. Pakistan, Harza Eng. Co, Ill, 65; consult. agr. econ. Afghanistan, Food & Agr. Orgn-World Bank Coop. Prog, Rome, 66; eval. irrigation proj. Argentina, FOOD & AGR. ORGN, ROME, 67, TECH. OFFICER. AGR. ECON, 67- Economist analyst, econ. secretariat of cabinet, Off. of Prime Minister, Budapest, 38-39; econ. adv. Hungarian del, Conf. of Paris, 46. Chorin prize, Hungarian Acad. Sci, 45. Econ. Asn; Agr. Econ. Asn; Soc. Int. Develop. Development economics; transformation of traditional agriculture; problems of economic appraisal of agricultural projects. Publ: An Indian community development project in Bolivia, America Indigena, Mex, 4/62; The problem of transforming traditional agriculture, World Polit, 4/65; Improving small family farms, In: International handbook of management, McGraw, 65. Address: Food & Agriculture Organization, Via Delle Terme Di Caracalla, Rome, Italy.

DABBS, DR. JAMES McBRIDE, JR, b. Sumter, S.C, Dec. 2, 37; m. 64; c. 2. SOCIAL PSYCHOLOGY. B.A, Davidson Col, 59; univ. fel, Yale, 59-60, U.S. Pub. Health Serv. fel, 60-61, Nat. Sci. Found. fel, 61-62, M.S, 62, Ph.D. (psychol), 63. Res. assoc. PSYCHOL, John Slade Ely Center Health Ed. Res, Inc, 65-66; mem. res. staff & instr, Yale, 65-67; RES. ASSOC. & LECTR, MICHIGAN, 67- Summers, res. psychologist, U.S. Naval Personnel Res. Field Activity, Conn, 61, res. analyst, Bur. Soc. Sci. Res, Inc, 62. U.S.A.R, 62-65, Capt. Psychol. Asn. Communication and persuasion; reactions to stress; individual differences in feelings of competency or coping. Publ: Self esteem, communicator characteristics, and attitude change, J. Abnorm. & Soc. Psychol, 8/64; co-auth, Effects of varying the recommendations in a fear-arousing communication, J. Personality & Soc. Psychol, 11/66; co-auth, Palmar sweating: a quick and simple measure, J. Exp. Psychol, 68. Address: Dept. of Psychology, University of Michigan, 122 S. First St, Ann Arbor, Mich. 48108.

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DACHOWSKI, DR. LAWRENCE W(ILLIAM), b. Chicago, Ill, June 19, 35; m. 60; c. 2. PSYCHOLOGY. B.S, Ill. Inst. Tech, 57; M.A, West Virginia, 59; Ph.D.(psychol), Illinois, 63. Instr. PSYCHOL, TULANE, 62-63, ASST. PROF. 63- U.S. Pub. Health Serv. res. grants, 64-65, 66- AAAS; Psychol. Asn. Motivational and emotional effects of frustrative nonreward; conditioning and learning; verbal retention. Publ: Irrelevant thirst drive and light aversion, Psychol. Reports, 64; Reward size effects in the double runway, Psychonomic Sci, 67. Address: Dept. of Psychology, Tulane University, New Orleans, La. 70118.

DAENECKE, DR. ERIC, b. Brooklyn, N.Y, Jan. 24, 14; m. 36; c. 2. POLITICAL SCIENCE, ACCOUNTING. B.S, American Univ, 44, M.A, 47, Ph.D.(pub. admin), 50; LL.B, Mt. Vernon Sch. Law, 54; LL.M, Manila, 64; D.C.L, Santo Tomas, 66. Chief of finance, U.S. Gen. Acct. Off, D.C, 35-44; U.S. Labor Dept, 44-57; PUB. ADMIN. ADV, AGENCY INT. DEVELOP-AM. EMBASSY, TEHERAN, QUITO, MANILA & SAIGON, 57- Prin. prof, Cent. Univ, Ecuador, 61-63; vis. prof, Santo Tomas & eve. vis. prof, Manila, 65-66; eve. instr, Far East div, Maryland, 67- Inst. Cert. Pub. Acct; Am. Bar Asn; Econ. Asn; Am. Acct. Asn; Fed. Bar Asn; Int. Bar Asn; Soc. Int. Law. Law; government. Publ: Tales of Mullah Nasr-ud-Din, 60 & More tales of Mullah, 61, Exposition; Spanish-English dictionary of accounting and financial terms, Cent. Univ, Ecuador. Address: USAID/PAD, APO San Francisco 96243.

DAGENAIS, PROF. PIERRE, b. Montreal, Que, Oct. 3, 09; m. 36; c. 2. GEOGRAPHY. B.A, Montreal, 32, M.A, 35; L. ès L, Paris, 38; Ph.D.(geog), Grenoble, 39. PROF. GEOG. & DIR. DEPT, MONTREAL, 46-, dean faculty letters, 62-67. Vis. prof, British Columbia, 52. Mem. Int. Geog. Union. Can. Asn. Geog.(pres, 53). Methodology; geography of Province of Quebec, New Quebec territory. Publ: Bugey of Savoie; Geographical mixtures Traveller's guides for Canada. Address: Dept. of Geography, University of Montreal, Box 6128, Montreal, Que, Can.

DAGER, PROF. EDWARD Z(ICCA), b. Warren, Ohio, Oct. 11, 21; m. 53; c. 1. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Kent State, 50; M.A, Ohio State, 51, Ph.D, 56. Asst. prof. SOCIOL, PURDUE, 56-60, assoc. prof, 60-67, PROF, 67- Mem, Nat. Coun. Family Rels, 56-, sect. chmn, 67-68. U.S.N, 42-45. Sociol. Asn. The family as an institution; personality development; socialization and social structure. Publ: Family integration and the response to heart disease; Factors related to personality change, In: Epidemiology of mental disorders; Socialization and personality development in the child, In: Handbook of marriage and the family, Rand McNally, 64. Address: Dept. of Sociology, Purdue University, Lafayette, Ind. 47907.

DAGGETT, PROF. ATHERN P(ARK), b. Springfield, Mo, Jan. 10, 04; m. 36; c. 2. GOVERNMENT. A.B, Bowdoin Col, 25; A.M, Harvard, 28, Ph.D.(govt), 31. Instr. hist. & govt, BOWDOIN COL, 30-31, 32-33, Eng, 33-34, asst. prof. Eng. & govt, 34-36, GOVT, 36-40, assoc. prof, 40-46, PROF, 46-, acting pres, 67-68. Vis. prof, Brown, 48-49. Polit. Sci. Asn; Am. Soc. Int. Law. International and constitutional law; international relations. Address: 6 Longfellow Ave, Brunswick, Maine 04011.

D'AGOSTINO, PROF. LORENZO, b. Providence, R.I, Jan. 21, 17. PSYCHOLOGY. A.B, St. Michael's Col.(Vt), 38; M.S.S.W, Catholic Univ, 45, Ph.D. (soc. work), 48. Assoc. prof. sociol, ST. MICHAEL'S COL.(VT), 48-57, PSYCHOL, 62-66, PROF, 67- Asn. Social Workers. Counseling; social work; mental health. Publ: History of public welfare in Vermont, St. Michael's, 48; Dolores, Pageant, 64. Address: Dept. of Psychology, St. Michael's College, Winooski, Vt. 05404.

DAHL, DR. DALE CURTIS, b. Watertown, S.Dak, Mar. 31, 32; m. 57; c. 2. ECONOMICS, LAW. B.S, S.Dak. State, 57, M.S, 59; Ph.D.(econ, law), Minnesota, 64. Res. asst. ECON, S.Dak. State, 57-59; MINNESOTA, 59-60, instr, 60-63, res. assoc, 63-64, asst. prof, 64-67, ASSOC. PROF, 67- Eng. consult, Walter Butler & consult, Minn. Coun. Econ. Ed, 66-; Stanford Res. Inst, 67-; Danforth Assoc, 67- Mil. Intel, U.S.A. Farm Econ. Asn; Econ. Asn. Marketing and regional economics; law. Publ: The law and the market, 66 & Minnesota Agribusiness, 67, Univ. Minnesota; co-auth, Market structure research—how and for what, J. Farm Econ, 5/65. Address: 1370 Sheldon St, St. Paul, Minn. 55108.

DAHL, FREDERICK ROY, b. Minneapolis, Minn, Apr. 16, 27. ECONOMICS. B.A, Minnesota, 50; M.A, Tufts, 51; Fulbright scholar, Paris, 51-52. Economist, div. int. finance, Fed. Reserve Bd, 52-62; res. adv, Cent. Bank Nigeria, 62-64; chief spec. studies, div. int. finance, FED. RESERVE BD, 64-66, ASST. DIR. DIV. EXAM, 66- U.S.N.R, 45-46, Lt. Econ. Asn. International finance; money and banking. Publ: International operations of U.S. banks: growth and policy implications, Law & Contemporary Probs, winter 67. Address: 4901 Baffin Bay Lane, Rockville, Md. 20853.

DAHL, DR. RANDLE E(DWIN), b. Chicago, Ill, Nov. 7, 07; m. 39. ECONOMICS. Ph.D.(econ), Clark, 41. Regional supv. analyst, bur. labor statist, U.S. Dept. Labor, 43-46; supvr. econ. div, dept. indust. rels. res, Ford Motor Co, 46-47; prof. indust. rels. & chmn. dept. personnel & labor rels, Fenn Col, 47-52; lectr. indust, grad. div, sch. bus, Western Reserve, 52-53; wage & salary adminstr. & asst. to dir. indust. rels, Weatherhead Co, 53-54; vis. prof. ORAD, GRAD. DIV, SCH. MGT, CASE WESTERN RESERVE, 54-55, ASSOC. PROF, 55- Chief case anal, Off. Salary Stabilization, Ohio, 52-53. Arbitrator & consult, 48- Econ. Asn; Arbit. Asn. Collective bargaining; industrial relations and communications. Address: Baker Memorial Bldg, Room 336, Case Western Reserve University, Cleveland, Ohio 44106.

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DAHL, PROF. ROBERT A(LAN), b. Inwood, Iowa, Dec. 17, 15; m. 40; c. 3. POLITICAL SCIENCE. A.B, Washington (Seattle), 36; Ph.D.(govt), Yale, 40. Mgt. analyst, U.S. Dept. Agr, 40; economist, Off. Prod. Mgt. & War Prod. Bd, 41-42; instr. POLIT. SCI, YALE, 46-47, asst. prof, 47-50, assoc. prof, 50-55, Meyer prof, 55-64, STERLING PROF, 64- Guggenheim fel, 50; Walgreen lectr, Chicago, 55; fel, Center Adv. Study Behav. Sci, 55-56 & 67. U.S.A, 43-45. Polit. Sci. Asn.(pres, 66-67); Soc. Pub. Admin; Philos. Soc; Am. Acad. Arts & Sci. Democratic theory; comparative political systems; political oppositions. Publ: Who governs?; Politics, economics and welfare; A preface to democratic theory. Address: Dept. of Political Science, Yale University, New Haven, Conn. 06520.

DAHLBERG, DR. ALBERT, Dent. Anthrop, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

DAHLBERG, DR. KENNETH A(RTHUR), b. Denver, Colo, Aug. 31, 35; m. 64; c. 1. POLITICAL SCIENCE. B.A, Northwestern, 57; M.A, Stanford, 61; fel, Colorado, 63-65, Ph.D.(common mkt), 66; Fulbright fel, Brussels, Belgium, 65-66. Instr. German & soc. sci, Bakersfield Col, 61-63; ASST. PROF. POLIT. SCI, WESTERN MICHIGAN, 66- U.S.A, 57-60. Polit. Sci. Asn; Int. Studies. Asn. International relations and comparative government, especially political integration as exemplified in the European economic community. Address: Dept. of Political Science, Western Michigan University, Kalamazoo, Mich. 49001.

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DAHLKE, PROF. H(ELMUT) OTTO, b. Washington, D.C, July 26, 13; m. 40; c. 1. SOCIOLOGY. A.B, Illinois, 35, A.M, 37; Northwestern, 38-39; Ph.D, Wisconsin, 50; cert. soc. work, Pennsylvania, 64. Asst. prof, Connecticut, 45-50; sociol, Ohio, 50-53; from assoc. prof. to prof, Concord Col, 53-63; assoc. prof. SOCIAL WORK, West Virginia, 64-66; PROF, RICHMOND PRFNL. INST, 66- Fel, Am. Asn. Mid. East Studies, 65. AAAS; Sociol. Asn. Sociological theory and methodology; group structures and organization; sociology of person; social welfare policy. Publ: The teacher in a context of values, Ed. Horizons, winter, 59; An existentialist examination of the naturalistic, positivistic-frame of reference, Proc. W.Va. Acad. Sci, 61; The value tangle and educational malaise, Nat. Elem. Prin, 11/62. Address: 8265 Ben Davis Dr, Richmond, Va. 23235.

DAHLSTROM, PROF. W(ILLIAM) GRANT, b. Minneapolis, Minn, Nov. 1, 22; m. PSYCHOLOGY. B.A, Minnesota, 44, Ph.D.(psychol), 49. Instr. psychol, Minnesota, 46-48; Ohio Wesleyan, 48-49; vis. asst. prof, Iowa, 49-53; dir. psychol. serv, NORTH CAROLINA, 53-56, assoc. prof. psychol. & psychiat, 53-60, PROF. PSYCHOL. & PSYCHIAT, UNIV. & RES. PROF. PSYCHOL, INST. RES. SOC. SCI, 60- Nat. Inst. Ment. Health spec. res. fel, Menninger Found, 67-68. Mem. study sect. ment. health, div. res. grants, Nat. Insts. Health, 63-67, chmn, 66-67. AAAS; Psychol. Asn; Psychomet. Soc; Soc. Res. Child Develop. Personality measurement and development; psychosomatic relations. Publ: Co-ed, Basic MMPI readings in psychology and medicine, 56 & auth, An MMPI handbook: a guide to use in clinical practice and research, 60, Univ. Minnesota & Negro and white children: a psychological study in the rural south, Acad. Pres, 68. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27514.

DAHMER, CLAUDE L(AFAYETTE), JR, b. Meridian, Miss, Oct. 20, 22. PSYCHOLOGY. A.B, Alabama, 47, M.A, 49. Res. statistician, Govt. of P.Rico, 50-51; surv. statistician, U.S. Bur. Census, D.C, 51-53; supvr. interviewing qual. control prog, DANIEL STARCH & STAFF, 53-65, CHIEF STATISTICIAN, 65- Asn. Pub. Opinion Res; Statist. Asn; Mkt. Asn. Survey methodology; interviewer training. Publ: Shifting sentiments toward civil rights in a southern university, Pub. Opinion Quart. Address: 1408 Stonybrook Ave, Mamaroneck, N.Y. 10543.

DAHMS, DR. FREDRIC ARTHUR, b. Kitchener, Ont, July 12, 35; m. 58; c. 2. GEOGRAPHY. B.A, Western Ontario, 57, M.A, 61; Ph.D.(geog), Auckland, 66. Teacher, high sch, 57-61; Kitchener-Waterloo Collegiate, 61-63; ASST. PROF. GEOG, GUELPH, 66-, CHMN. DEPT, 67- Consult, planning div, Auckland Regional Authority, N.Z, 63-66; Cent. Ont. Regional Develop. Coun, 68. Asn. Am. Geog; Can. Asn. Geog; N.Z. Geog. Soc. Urban Morphology; transport technology and commuting; historical and cross-cultural urban studies. Publ: The journey to work in Auckland. I The broad communing patterns 1963, 9/67 & II Planning in Auckland, 12/67, Town Planning Quart. Address: Dept. of Geography, Wellington College, University of Guelph, Guelph, Ont, Can.

DAI, PROF. BINGHAM, b. Kutien, China, Aug. 26, 99; m. PSYCHIATRY, PSYCHOLOGY. A.B, St. John's (China), 23; M.A, Chicago, 32, Ph.D.(sociol), 37; fel, Yale, 32-33; fel, Peiping Union Med. Col, 35-36. Assoc. med. psychol, Peiping Union Med. Col, 36-37, asst. prof, 37-39; lectr. sociol, Fisk, 39-42; ed, China at War, Chinese Ministry Info. Off. N.Y, 42-43; lectr. psychiat, MED. SCH, DUKE, 43-50, PROF. MENT. HYG, 50-, PSYCHOL, 47- Lectr, Nat. Tsing Hua Univ, Peiping, 36-37. Ed, Opium, 27-29. Head res. sect, Opium Suppression Cmt, Chinese Nat. Govt, 28-29. Sociol. Asn; Psychol. Asn; Acad. Psychother. Personality problems in Chinese culture; Negro personality problems; American culture and personality disorders; psychotherapy and training of psychotherapists. Address: Duke University School of Medicine, Durham, N.C. 27706.

DAIFUKU, DR. HIROSHI, b. Honolulu, Hawaii, Apr. 7, 20; m. 44, 57; c. 6. ANTHROPOLOGY. B.A, Hawaii, 42; fel, Harvard, 48-49, M.A, 49, Ph.D. (anthrop), 51. Instr. anthrop, Wisconsin, 49-52; curator, State Hist. Soc. Mus, Wis, 52-53; prog. specialist develop. mus, UNESCO, 54-62, conserv. sites & monuments, 62-66, HEAD SECT. DEVELOP. CULTURAL HERITAGE, 67- U.S.A, 45-46. Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop. Applied anthropology. Publ: Articles on anthrop, museography & conserv. cultural property. Address: Section for the Development of the Cultural Heritage, UNESCO, Place de Fontenoy, Paris 7, France.

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DAILEY, DR. DON M(ARCUS), b. Lansing, Mich, Nov. 22, 92; m. 37. ECONOMICS. A.B, Oberlin Col, 20; M.A, Northwestern, 22, Ph.D, 34. Assoc, bur. bus. res, Illinois, 27-31; soc. sci. res. cmt, Chicago, 34-38; dir. res, U.S. Savings & Loan League, 38-63; RES. CONSULT, COOK COUNTY COUN. INSURED SAVINGS ASN, 63- U.S.A, 17-18. Econ. Asn; Statist. Asn. Finance; money market; thrift and home financing. Publ: Chicago banks as factors in the money market; Investment banking in Chicago. Address: 5726 Stony Island Ave, Chicago, Ill. 60637.

DAILEY, PROF. EDWARD, Econ, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

DAILEY, DR. JOHN T(HOMAS), b. San Marcos, Tex, Sept. 26, 16; m. 37; c. 1. PSYCHOLOGY. B.S, Southwest Tex. Teachers Col, 36; M.S, N.Tex. State Col, 39; Ph.D.(ed. psychol), Texas, 49. Teacher & prin, pub. schs, Tex, 36-40; asst. examiner & statistician, guid. bur, Texas, 40-42; asst. dir. personnel res, U.S. Dept. Air Force, 46-48, dir, 48-51; chief scientist, res. div, Bur. Naval Personnel, 51-58; res. assoc. psychol, Pittsburgh, 58-64; RES. PROF. ED, GEORGE WASHINGTON, 64-; PROG. DIR. PROJ. TALENT, AM. INST. RES, 58- Consult, chief staff, U.S. Dept. Air Force, 58-60, defense study military compensation, 62- Mem, President's Cmt. Ment. Retardation, 66-67. U.S.A.A.F, 42-46, Maj. AAAS; fel. Psychol. Asn; fel. Psychomet. Soc; fel. Statist. Asn; Personnel & Guid. Asn; Opers. Res. Soc. Educational and psychological measurement; motivation; personnel; educational evaluation; manpower; educational and vocational guidance. Publ: Co-auth, Development of evaluative and predictive measures in the Air Force Officer Candidate School, Air Force Training Command Res. Bull, 10/47; Research planning conference on objective measurement of motivation and temperament, Air Force Human Resources Res. Center Conf. Report, 6/51; Stretching the supply of high level talent, In: Proc. invitational conf. testing probs, Ed. Testing Serv, 51. Address: 801 N. Pitt St, Alexandria, Va. 22314.

DAILY, DR. AUGUSTUS D(EE), JR, b. St. Louis, Mo, Aug. 13, 20; m. 55; c. 2. PSYCHOLOGY. A.B, Washington (St. Louis), 42, Ph.D, 51. Res. assoc, Princeton, 50-51; asst. prof. psychol, Carnegie Inst. Tech, 51-54; indust. psychologist, Allegheny Ludlum Steel Corp, 54-57; dir, A.D. Daily & Assocs, 57-59; exec. scientist, Am. Inst. Res, Calif, 59-61; sr. res. psychologist, defense res. lab, Gen. Motors Corp, 61-62; SR. HUMAN FACTORS SCIENTIST, SYSTS. DEVELOP. CORP, 62- U.S.N.R, 42-46, Lt. AAAS; Psychol. Asn. Industrial psychology; human factors; learning theory. Publ: Effects of variation of motivation of learning. Address: Systems Development Corp, 2500 Colorado Ave, Santa Monica, Calif. 90406.

DAIS, PROF. EUGENE E(LBERT), b. Redding, Calif, July 5, 32; m. 58. JURISPRUDENCE, POLITICAL SCIENCE. A.B, California, 54; LL.B, Harvard, 59, fel, 59-61. Asst. prof. LAW & POLIT, Hopkins, 61-68; ASSOC. PROF, CALGARY, 68- U.S.A, 54-56, 1st Lt. Polit. Sci. Asn. Legal and political theory and behavior. Address: Dept. of Politics, University of Calgary, Calgary, Alta, Can.

DAKIN, PROF. RALPH E(UGENE), b. Pueblo, Colo, Dec. 17, 20; m. 43; c. 5. SOCIOLOGY. B.F.A, Colorado, 42, A.M, 48, univ. fel, 51-52, Ford Ed. Forum fel, 56, Ph.D, 58. Instr. SOCIOL, Colorado, 47-48; asst. prof, Kansas State, 48-58, assoc. prof, 59-64, PROF, 64-67; MISSOURI, COLUMBIA, 67- Asst. prog. officer, U.S. Agency Int. Develop, 67- Consult, Dept. Health, Ed. & Welfare Community Leader Training Proj, 67. U.S.A.A.F, 42-46, Sgt. Sociol. Asn. Theoretical sociology; comparative social systems; community analysis. Publ: Co-auth, Approaches to the study of urbanization, Univ. Kansas, 64; auth, The process of urbanization: the social aspects, Kansas State Univ, 67. Address: U.S. Operations Mission, APO San Francisco 96346.

DALAND, PROF. ROBERT T(HEODORE), b. Milton, Wis, Oct. 3, 19; m. 42; c. 2. POLITICAL SCIENCE. B.A, Milton Col, 42; M.A, Wisconsin, 47, Ph.D.(polit. sci), 52. Asst. prof. polit. sci, Alabama, 49-56; Ford faculty fel. govt. & urbanism, California, 54-55; asst. prof. polit. sci, Connecticut, 56-58; res. fel, Columbia, 58-59; assoc. prof, North Carolina, 59-61; sch. pub. admin, Southern California, 61-63; PROF. POLIT. SCI. & DIR. PUB. ADMIN. PROG, NORTH CAROLINA, 63- Polit. Sci. Asn; Soc. Pub. Admin. Urban policy-making; development administration; state and local government. Publ: Dixie City: a portrait of political leadership; Perspectives of Brazilian public administration; Brazilian planning. Address: Dept. of Political Science, University of North Carolina, Chapel Hill, N.C. 27514.

DALE, DR. ARBIE MYRON, JR, b. Sandpoint, Idaho, Nov. 23, 24. PSYCHOLOGY, MANAGEMENT SCIENCE. A.B, Utah, 47; Ph.D.(psychol), N.Y. Univ, 57. Instr. Eng, Boston, 47-49; psychol, Northeastern, 49-51; reading consult, Union Free Sch. Dist. 3, Huntington, N.Y, 51-52; instr. psychol, Col. Wooster, 52-53; asst. bus. psychol. & mgt, SCH. COMMERCE, N.Y. UNIV, 54-55, instr. MGT. & INDUST. RELS, 55-58, asst. prof, 58-63, ASSOC. PROF, 63-, FRESHMAN ADV, 58- Private practice, 60- Test constructor & subject-area specialist, U.S. Armed Forces Inst, U.S. Dept. Defense, 58, 59, 66-; pres, A.M. Dale & Co, Inc, 61-67; indust. psychologist & mgt. consult, 61-; consult, Gamblers Anonymous, 66, 68-; psychol. consult, Am. Inst. Banking, N.Y, 67- U.S.A, 42-44. Psychol. Asn; Nat. Soc. Study Ed; Acad. Mgt. Psychological tests and measurements; organizational psychology; personnel management; statistics for the behavioral sciences. Address: School of Commerce, New York University, Washington Square, New York, N.Y. 10003.

DALE, PROF. DOUGLAS K(EITH), b. Ottawa, Ont, Oct. 10, 24; m. 51; c. 5. MATHEMATICS, STATISTICS. B.A, Queen's (Can), 47 & 49, Soc. Sci. Res. Coun. grants, 53, 57; M.Sc, North Carolina, 58. Lectr. math, Queen's (Can), 46-49; asst. to math. adv, Dom. Bur. Statist, Can, 49-51, chief sampling & anal, 51-60; chief statist. anal. div, Nat. Energy Bd, Can, 60-62; assoc. prof. MATH, CARLETON (CAN), 62-65, PROF, 65-, chmn. dept, 63-67, sessional lectr, 69-62. Consult, Can. Advert. Res. Found, 62-63; Bur. Broadcast Measurement, 63-; Can. Broadcasting Corp, 67-; Can. Dept. Manpower, 67-Math. Asn. Am; Statist. Asn; Can. Math. Cong; fel. Royal Statist. Soc. Development and application of sampling theory and designs; investigation of application of model construction for energy demand; development of energy statistical series in Canada. Publ: Sampling techniques, their application to sickness surveys; Rotation of primary sampling units in a continuing area sample; Canadian labour force survey, a comparison of two sample designs. Address: Carleton University, Colonel By Dr, Ottawa, Ont, Can.

DALE, PROF. ERNEST, U.S. citizen. INDUSTRIAL RELATIONS. B.A, Cambridge, 39, M.A, 43; A.M, Yale, 46, Ph.D, 50. Lectr. econ. & labor rels, Columbia, 46-50, asst. prof. indust. rels, 50-54; assoc. prof. bus. admin, Cornell, 54-60, res. assoc, 60-62; VIS. PROF. INDUST. ORGN, WHARTON SCH, PENNSYLVANIA, 65- Assoc. fel, Jonathan Edwards Col, Yale, 43-58, vis. lectr, Yale, 44-47. Am. Econ. Asn; Indust. Rel. Res. Asn; fel. Royal Econ. Soc. Administrative theory and managerial economics; industrial organization; the theory and practice of management, organization and long-range planning. Publ: Planning and developing the company organizations structure; The great organizers; co-auth, Staff in organization. Address: 15 E. 55th St, New York, N.Y. 10022.

DALE, DR. LEON A(NDREW), b. Paris, France, May 9, 21; nat; m. 59. ECONOMICS. B.A, Tulane, 46; M.A, Wisconsin, 47, fel. & Ph.D.(econ), 49. Asst. econ, Wisconsin, 46-48; asst. prof. labor econ, Florida, 49-50; asst. to European rep, Am. Fedn. Labor, 50-53; researcher & consult, 53-56; int. economist, U.S. Dept. Labor, 56-59; PROF. INDUST. RELS. & CHMN. DEPT, BRIDGEPORT, 60-, dir. int. center, 61-63, res. grant, 62. Lectr, Wisconsin, 60; summer vis. prof. econ, Columbia, 66 & 67. Fact finder, Bd. Mediation & Arbitration, State of Conn, 65-; consult. human rels. & mgt, 66- U.S.A, 42-45. AAAS; Econ. Asn; Indust. Rels. Res. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Acad. Mgt; N.Y. Acad. Sci; Arbit. Asn. Labor and management; international affairs. Publ: Marxism and French labor, Vantage, 56; French labor: a bibliography, Kelley, 68; The quasi-therapeutic functions of the supervisor, Personnel Admin, 67. Address: 135 York St, Stratford, Conn. 06497.

DALE, DR. MARTHA ERICSON, b. Chicago, Ill, Apr. 29, 14; m. 49; c. 3. CLINICAL PSYCHOLOGY. B.S, Northwestern, 39; M.S, Iowa State,-41; Ph.D, Chicago, 45. Assoc. prof. psychol, Merrill-Palmer Sch, 44-50; psychologist, pub. schs, Mich, 57-59; ASST. PROF. CHILD DEVELOP, MICH. STATE, 61- Psychol. Asn. Human development. Publ: Child rearing and social status, Am. J. Sociol; Study of the thematic apperception test as applied to a group of disturbed children, Am. Psychologist. Address: 4444 Oakwood Dr, Okemos, Mich. 48864.

DALE, DR. RICHARD, b. Columbus, Ohio, Oct. 22, 32; m. 67. POLITICAL SCIENCE. A.B, Bowdoin Col, 54, Columbia, 54-55; M.A, Ohio State, 57; M.A, Princeton, 61, Ph.D.(polit), 62. Instr. govt, New Hampshire, 62-63; asst. prof. polit. sci, Northern Illinois, 63-66; adj. prof. GOVT, SOUTHERN ILLINOIS, 66-67, ASST. PROF, 67- Nat. Defense For. Lang. fel. Afrikaans, California, Los Angeles, Summer 64. U.S.A, 57-59. Fel. African Studies Asn. Polit. Sci. Asn; Royal African Soc. Southern African affairs. Address: Dept. of Government, Southern Illinois University, Carbondale, Ill. 62901.

DALE, PROF. RICHARD SORENSEN, b. Denver, Colo, Dec. 19, 15; m. 43; c. 1. BUSINESS ADMINISTRATION. B.S, Cornell, 39; Ed.M, Buffalo, 49; Ed.D, N.Y. Univ, 55. Asst. prof. bus. admin, High Point Col, 49-55; New Mexico Highlands, 55-56; Tex. Col. Arts & Indust, 57-58; assoc. prof. BUS, SAN JOSE STATE COL, 58-67, PROF, 67-, col. found. grant, 67-68. U.S.A, 41-46, Lt. Nat. Bus. Ed. Asn. Business education; training high school teachers; accounting. Publ: Development of handbook of group dynamics techniques for college teachers of certain business subjects; Guidance practices of private business schools of the U.S; Teaching accounting with the overhead projector, J. Bus. Ed, 1/63. Address: Dept. of Business Education, San Jose State College, San Jose, Calif. 95114.

DALES, PROF. J(OHN) H(ARKNESS), b. Toronto, Ont, Aug. 20, 20; m. 43; c. 2. ECONOMICS. B.A, Toronto, 43, M.A, 46; Ph.D, Harvard, 53. From lectr. to asst. prof. ECON, McGill, 49-54; TORONTO, 54-63, PROF, 63- Vis. prof, Chicago, 62-63. R.C.A.F, 43-45. Can. Econ. Asn.(managing ed. jour, Can. Polit. Sci. Asn, 57-66). Recent economic history; location theory. Publ: Hydroelectricity and industrial development; The protective tariff in Canada's development, Univ. Toronto, 66. Address: 100 St. George St, Toronto 5, Ont, Can.

DALES, PROF. RUTH J, b. Niagara Falls, N.Y, Mar. 1, 11. FAMILY RELATIONS. B.S, Elmira Col, 33; M.S, Kans. State Col, 39; Ph.D.(child develop, family rels), Cornell, 53. Pre-sch. dir. family life prog, Toledo, Ohio, 39-43; field dir, Am. Red Cross, Ala, 43-47; from asst. prof. to PROF. CHILD DEVELOP. & FAMILY RELS, FLA. STATE, 48- Soc. Res. Child Develop. Child development. Publ: Method for measuring developmental tasks, Child Develop; Effective teaching family living, J. Home Econ; Afternoon sleep pre-school children, J. Genetic Psychol. Address: Dept. of Home & Family Life, Florida State University, Tallahassee, Fla. 32306.

DALEY, DR. MARVIN F(RANK), b. Haxton, Colo, Sept. 19, 33; m. 56; c. 3. PSYCHOLOGY. B.A, New Mexico, 56, M.A. 58; Ph.D.(psychol), Houston, 62. Asst. prof. PSYCHOL, Tex. Tech. Col, 61-64; Missouri, Kansas City, 64-65; ASSOC. PROF. UTAH STATE, 65-, DIR. PSYCHOL. ANIMAL LAB. 66- Summer vis. lectr, Col. Sequoias & Fresno State Col, 67, staff lectr, Off. Ed, Dept. Health, Ed. & Welfare, 67. AAAS; Psychol. Asn. Experimental analysis of behavior; animal and infant vocal behavior; aversive control; contingency management. Publ: Reinforcement and the modification of behavior, Proc. Utah, Acad. Sci, 66; co-auth, Reinforcement menus in the instruction of mentally retarded children, Proc. Far West Lab. Ed. Res, 66; concurrent schedules of reinforcement in the guinea pig, Psychol. Records, 67. Address: Dept. of Psychology, Utah State University, Education Bldg, Logan, Utah 84321.

DALL, WILLIAM, Indust. Rels, see 10th ed, Soc. & Behav. Vols.

DALLEK, DR. ROBERT, Am. Diplomatic Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DALLENBACH, PROF. KARL M, Psychol, see 11th ed, Phys. & Biol. Vols.

DALLETT, DR. KENT M, b. West Chester, Pa, Feb. 20, 31; m. 62; c. 1. PSYCHOLOGY. A.B, California, Berkeley, 57, Ph.D.(psychol), 61. ASST. PROF. PSYCHOL, CALIFORNIA, LOS ANGELES, 61- U.S.A, 51-53. Psychol. Asn. Memory. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

DALLIN, PROF. ALEXANDER, b. Berlin, Germany, May 21, 24; nat; m. 53; c. 3. INTERNATIONAL RELATIONS, GOVERNMENT. B.S, City Col. New York, 47; M.A, Columbia, 48, Soc. Sci. Res. Coun. fel, 50-52, Ph.D, 53. Res. assoc. Soviet affairs, Harvard, 50-51; assoc. dir, Res. Prog. U.S.S.R, 51-54; dir. res, War Documentation Proj, 54-56; vis. asst. prof. INT. RELS, Russian Inst, Columbia, 56-58, assoc. prof, 58-61, prof, 61-65, ADLAI E. STEVENSON PROF, 65-, dir. Russian Inst, 62-67. Lectr, George Washington, 54-56; Guggenheim Found. fel, 61-62; Albert Shaw lectr, Hopkins, 64; Fulbright-Hays fel, 65-66. Consult, Rand Corp, 55-58, 61-; U.S. Off. Ed, 65- George Louis Beer prize, Am. Hist. Asn, 57. U.S.A, 43-46, Sgt. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Soviet foreign policy and government; international communism. Publ: German rule in Russia, 1941-1945; Soviet Union at the United Nations; The Soviet Union and disarmament, Praeger, 65. Address: Dept. of Public Law & Government, Columbia University, 622 W. 113th St, New York, N.Y. 10025.

DALLMAYR, DR. WINFRIED R(EINHARD), b. Ulm, Germany, Oct. 18, 28; m. 57; c. 2. POLITICAL SCIENCE. Dr. Law, Munich, 55; M.A, Southern Illinois, 56; Ph.D.(polit. sci), Duke, 60. Instr. POLIT. SCI, Milwaukee-Downer Col, 61-62, asst. prof, 62-63; PURDUE, 63-65, assoc. prof, 65-68, PROF, 68- Polit. Sci. Asn; Sociol. Asn; Soc. Polit. & Legal Philos; Int. Asn. Philos. of Law & Social Philos. Comparative government; political theory. Publ: Co-auth, Freedom and emergency powers, Appleton, 64; auth, Public and semi-public corporations in France, Law & Contemporary Prob, fall 61; Functionalism, justice and equality, Ethics, 10/67. Address: Dept. of Political Science, Purdue University, Lafayette, Ind. 47907.

DALLYN, PROF. F(REDERICK) JOHN G(ALLINGER), Sociol, see 10th ed, Soc. & Behav. Vols.

DALRYMPLE, DR. DOUGLAS J, b. Lockport, N.Y, Oct. 1, 34; m. 58; c. 3. BUSINESS ADMINISTRATION, MARKETING. B.S, Cornell, 56, M.S, 59; Nat. Retail Merchants Asn. fel, Mich. State, 62-64, D.B.A, 64. Mkt. specialist, Cornell, 56-57, 58-60; asst. prof. MKT, CALIFORNIA, LOS ANGELES, 63- Vis. assoc. prof, Indiana, 68-69. U.S.A, 67, 1st Lt. Mkt. Asn; Inst. Mgt. Sci. Marketing management; retailing. Publ: Merchandising decision models for department stores, Bur. Bus. & Econ. Res, Mich. State Univ, 64; co-auth, Retail management cases, 69 & Retailing: an economic view, 69, Free Press. Address: Indiana University Graduate School of Business, Bloomington, Ind. 47401.

DALTON, DR. GEORGE, b. Brooklyn, N.Y, Aug. 2, 26. ECONOMIC SYSTEMS. A.B, Indiana, 50; M.A, Columbia, 51; Carnegie fel, Oregon, 51-53, Ph.D. (econ), 59. Instr. econ, Boston, 53-55, 56-60; Maryland Overseas Prog, Eng. & Germany, 55-56; asst. prof, Bard Col, 60-61; dep. dir. econ. surv. Liberia, NORTHWESTERN, 61-65, PROF. ECON. & ANTHROP, 65-, vis. fel. econ. anthrop. & develop, 63. Consult, human environments in Cent. Africa, Nat. Acad. Sci, 60-61. U.S.N, 44-46. Econ. Asn; African Studies Asn. Comparative economic systems; economic development and anthropology, especially of Africa. Publ: Co-ed, Markets in Africa; Economic theory and primitive society, Am. Anthrop; Traditional production in primitive African economies, Quart. J. Econ. Address: Dept. of Economics, Northwestern University, Evanston, Ill. 60201.

DALTON, PROF. MELVILLE, b. Elwood, Ind. SOCIOLOGY, SOCIAL PSYCHOLOGY. A.M, Chicago, 46, Ph.D, 49. From asst. prof. SOCIOL. & asst. res. sociologist to PROF. & RES. SOCIOLOGIST, INST. INDUST. RELS, CALIFORNIA, LOS ANGELES, 53- U.S. Dept. Labor res. grant, 66-67. AAAS; Sociol. Asn; Indust. Rels. Res. Asn; Hist. Asn. Industrial sociology and psychology; organization analysis; historical sociology. Publ: Men who manage; Changing staff-line relationships, Personnel Admin, 3-4/66; co-auth, Reorganization and accommodation: a case in industry, In: Institutions and the person, Aldine, 68. Address: Dept. of Sociology, University of California, Los Angeles, Calif. 90024.

DALTON, PROF. ROBERT H(ATCHER), b. Holland, Va, Jan. 30, 12; m. 37; c. 4. PSYCHOLOGY. A.B, Duke, 34; B.D, Hartford Theol. Sem, 37; M.A, Trinity Col.(Conn), 38; Ph.D, Harvard, 49. PROF. PSYCHOL, CHILD DEVELOP. & FAMILY RELATIONSHIPS, CORNELL, 44- Nat. Coun. Relig. in Higher Ed. fel; lectr, sch. med, California, 50-51. Consult, George Jr. Repub, N.Y; Div. Ment. Health, St. Thomas, Virgin Islands, 67- Psychol. Asn. Clinical psychology; personality development and social interaction; juvenile delinquency; study of the consequences of mother-child separation in Saint Thomas, Virgin Islands; comparative study of children's dreams in New York State and Saint Thomas. Publ: Personality and social interaction; Mothers and children, Dept. Health, St. Thomas, Virgin Islands, 67; Value and use of counseling techniques in the work of probation officers, Fed. Probtn. Address: Dept. of Child Development & Family Relationships, Cornell University, Ithaca, N.Y. 14850.

DALY, DR. DENNIS C, b. St. Louis, Mo, Oct. 15, 30; m. 58; c. 2. PSYCHOLOGY. B.S, St. Louis, 57, univ. fel, 57-58, Pub. Health Serv. fel, 58-61, Ph.D. (health orgn. res), 61. PSYCHOLOGIST, St. Louis State Hosp, 61-68; COCHRAN VET. ADMIN. HOSP, 68- U.S.N, 51-55. Group dynamics; group therapy. Address: 1216 DuBois Court, St. Louis, Mo. 63122.

DALY, DR. DONALD JAMES, b. Edmonton, Alta, Aug. 23, 22; m. 43; c. 3. ECONOMICS. B. Com, Queen's (Ont), 43, B.A, 46, Arts fel, 46-47, M.A, 48; Marshall Field fel, Chicago, 49-50, Can. Soc. Sci. Res. Coun. fel, 51-52, Ph.D.(econ), 53. Asst. dir. econ. br, Can. Dept. Trade & Commerce, 47-63; asst. dir. res, Royal Cmn. Banking & Finance, 62-63; ECONOMIST, ECON. COUN. CAN, 64- Mem, Can. Inst. Int. Affairs; mem. exec. cmt, Conf. Res. Income & Wealth, 64- R.C.N.V.R, 43-45, Lt. Am. Econ. Asn; Can. Econ. Asn; Int. Asn. Res. Income & Wealth. Empirical business cycle research; economic growth, specialization and international trade. Publ: Seasonal variations and business expectations, J. Bus; Canadian experience with seasonal adjustment, In: Seasonal adjustment on electronic computers; The scope for monetary policy—a synthesis, In: Conference on stabilization policies, Queen's Printer, Can, 66. Address: 440 Roger Rd, Ottawa 8, Ont, Can.

DALY, DR. REX F(ELTON), b. Panguitch, Utah, Mar. 4, 15. ECONOMICS, STATISTICS. B.S, Utah State Agr. Col, 38; M.S, Maryland, 39; Ph.D.(econ, agr), Illinois, 51. Asst. prof. agr. econ, Utah State Agr. Col, 40-42; econ. statistician, div. statist. & hist. res, U.S. Dept. Agr, 42-51, head income & demand sect, agr. econ. div, 51-58; econ. officer, Int. Coop. Admin, U.S. Opers. Mission, Pakistan, 58-60; chief outlook & projs. br, ECON. RES. SERV, U.S. DEPT. AGR, 60-65, CHMN. OUTLOOK & SITUATION BD, 65- U.S.N.R, 43-46, Lt. Agr. Econ. Asn.(award, 55); Econ. Asn. Appraisal of general business conditions and effect on agriculture and of economic growth

and development. Publ: Demand for farm products, J. Am. Statist. Asn; Some considerations in appraising the long-run prospects for agriculture, In: Studies in income and wealth. Address: 3838 Columbia Pike, Arlington, Va. 22204.

DALY, WILLIAM C(HARLES), b. Hempstead, N.Y, Jan. 16, 21; m. 52; c. 4. PSYCHOLOGY. A.B, Hofstra Col, 46; M.A, N.Y. Univ, 49; Ed.D.(ed. psychol), Western Reserve, 64. Psychol. exam, Children's Village, Dobbs Ferry, N.Y, 50-51; chief psychologist, Orient State Inst, 51-62; consult. sch. psychol, pub. schs, Md, 62-64; dir. psychol. serv, child diag. & develop. center, Georgetown Med. Center, D.C, 64-65; PROG. DIR. MENTAL RETARDATION, A.L. BOWEN CHILDREN'S CENTER, 65- Lectr, Maryland, 63-64; Southern Illinois, 65-66. U.S.A.A.F, 42-46, Sgt. Asn. Ment. Deficiency; Psychol. Asn. Mental retardation; reading; special education; guidance; delinquency; projective techniques. Publ: Minimal brain damage-an enigma, Catholic Ed. Rev, 5/65; Relationship between reading and anxiety in a group of mental retardates, Training Sch. Bull, 11/65; Survey of children observed at the Children's Diagnostic and Development Center during 1964, Georgetown Med. Bull, 8/66. Address: A.L. Bowen Children's Center, Harrisburg, Ill. 62946.

DAMANKOS, DR. FREDERICK JOHN, b. Cleveland, Ohio, Sept. 15, 35; m. 67. CLINICAL & SOCIAL PSYCHOLOGY. B.A, Western Reserve, 58, M.S, 59, Ph.D.(clin. psychol), 63. Clin-counseling psychologist, Brecksville Vet. Admin. Hosp, 62-65; res. assoc. psychosocial res, Cleveland Psychiat. Inst. & Cleveland State Hosp, 65-66; ASST. PROF. PSYCHOL, KENT STATE, 66- Lectr, Western Reserve, 65-66; dir. community psychol. & consultation, Summitt County Receiving Hosp. & Fallsview Ment. Health Center, 66- Res. consult, Gordrick Bell Neighborhood Center, 62-64; consult. psychologist, Cuyahoga County Juvenile Court, 64-; child psychol. & prog. consult, pupil serv, Cuyahoga Falls Bd. Ed, 66-; child study, Akron Bd. Ed, 66-; coordinating consult. community psychol. & ment. health, Akron City Health Dept. & Summit County Health Dept, 66-; child psychol. & prog. consult, day care center, Proj. Head Start, 67-; group ther. consult, Nat. Defense Ed. Act. Inst. Counsr. Ed, Kent State, 67- Psychol. Asn. Organizational and managerial effectiveness; the nature of effective social systems; promotion of positive child development; preventive mental health. Publ: Co-auth, Anomie: dimensions and structure, 64 & auth, Gains in IQ in schizophrenics, 64, Vet. Admin. Newsletter Psychol; co-auth, Anomie in a psychiatric population, J. Abnorm. Psychol, 68. Address: 13409 Bartlett Ave, Cleveland, Ohio 44120.

DAMARIN, DR. FRED L(OUIS), JR, b. Villa Park, Ill, May 3, 25. PSYCHOLOGY. A.B, Chicago, 47, Ph.D.(psychol), 56. Intern med. psychol, sch. med, Washington (St. Louis), 53-54; asst. med. psychologist, Univ. Texas M.D. Anderson Hosp, 55-58; RES. ASSOC. PSYCHOL, personality assessment & group behav. lab, Illinois, 58-60; RES. DEPT, ED. TESTING SERV, 60- C.W.S, U.S.A, 43-46. AAAS; Psychol. Asn; Psychomet. Soc; Soc. Multivariate Exp. Psychol. Personality theory and measurement; psychometrics, mathematical models; physiological phenomena related to personality. Address: Educational Testing Service, Princeton, N.J. 08540.

DAMAS, DR. DAVID JOHN, b. Dec. 27, 26; U.S. citizen. ANTHROPOLOGY. A.B, Toledo, 50; LaVerne Noyes fel, Chicago, 59, Nat. Inst. Ment. Health fel, 60-62, A.M, 60, Ph.D.(anthrop), 62. ARCTIC ETHNOLOGIST, NAT. MUS. CAN, 62- U.S.M.C. Fel. Anthrop. Asn; fel. Ethnol. Soc. Social anthropology; Eskimo kinship and social organization; cultural distributions and ecology; theory of band organization; museum anthropology. Publ: Igluligmiut kinship and local groupings, 63, ed, Band societies, (in press), & Ecological essays, (in press), Nat. Mus. Can. Address: National Museum of Canada, Ethnology Division, Ottawa 4, Ont, Can.

D'AMATO, DR. ANTHONY A, b. New York, N.Y, Jan. 10, 37; m. 58; c. 1. POLITICAL SCIENCE. A.B, Cornell, 58; LL.B, Harvard, 61; Ph.D.(pub. law), Columbia, 68. Instr. polit. sci, Wellesley Col, 64-67; SOC. SCI. RES. COUN. RES. FEL. STATIST, MISCO MGT, 67- Consult, Hudson Inst, Inc, 62-63; asst. counsel, S.W. Africa Cases, 63-64. Polit. Sci. Asn; Soc. Int. Law. Nonmetric statistical techniques for application in legal factor analysis; political linguistics; jurisprudence; judicial behavior. Publ: Bantustan proposals for South West Africa, J. Mod. African Studies, 10/66; Legal aspects of the French nuclear tests, Am. J. Int. Law, 1/67; Psychological constructs in foreign policy prediction, J. Conflict Resolution, 9/67. Address: 5807 Lake Shore Ave, Holland, Mich. 49427.

D'AMATO, PROF. M(ICHAEL) R(ICHARD), b. Brooklyn, N.Y, Sept. 14, 22; m. 52. PSYCHOLOGY. Ph.D.(psychol), N.Y. Univ, 54. From asst. prof. to assoc. prof. PSYCHOL, N.Y. Univ, 54-64; PROF, RUTGERS, 64- U.S.A.A.F, 42-46. AAAS; Psychol. Asn; Psychonomic Soc; Statist. Asn. Learning; physiological psychology. Publ: Secondary reinforcement and magnitude of primary reinforcement, J. Comp. Physiol. Psychol; Some effects of immediate versus randomly delayed shock on an instrumental response and cognitive processes, J. Abnorm. & Soc. Psychol; Effects of extinction trials on discrimination reversal, J. Exp. Psychol. Address: 951 Hilltop Rd, Plainfield, N.J. 07060.

DAMBAUGH, DR. LUELLA N, b. Du Bois, Pa, July 14, 08. GEOGRAPHY. B.S, Pa. State Teachers Col.(Indiana), 30; M.S, Chicago, 36; Pittsburgh, 40-44; fel, Maryland, 45-47, Ph.D.(geog), 47. PROF. GEOG, MIAMI (FLA), 47- Int. Geog. Union; Asn. Am. Geog; fel. Nat. Coun. Geog. Ed. Socioeconomic and world geography; Latin America regional geography; conservation. Publ: La geografia y las problemas de poblacion, Union Geografica Internacional Conferencia Regional, Latinoamerica, Tomo I: 82-88; Santo Domingo de los Colorados and its environs, Ecuador, Edicion de las Sociedad Mexicana de Geografia y Estadistica, 66; Human resources of Latin America, J. Geog, 4/67. Address: Dept. of Geography, Box 8272, University of Miami, Coral Gables, Fla. 33124.

D'AMBROSIO, DR. CHARLES A(NTHONY), b. Chicago, Ill, Aug. 31, 32; m. 58; c. 4. BUSINESS FINANCE. B.S.C, Loyola (Ill), 55; M.S, Illinois, 58, Ph.D, 62. Asst. prof. FINANCE, WASHINGTON (SEATTLE), 60-63, ASSOC. PROF, 63- Consult, Pac. Northwest Bell Tel. Co, 63-; asst. managing ed, J. Financial & Quant. Anal, 65- Econ. Asn; Finance Asn. Railroad finance; capital allocation; investments; security markets. Publ: Co-auth, Business finance: theory and management, 66 & The theory of business finance: a book of readings, 67, Macmillan; auth, Bulls, bears, and bucks: an elementary guide to personal investing, Prentice-Hall, 68. Address: College of Business Administration, University of Washington, Seattle, Wash. 98105.

DAMERON, DR. LAWRENCE E(DWARD), b. Centralia, Mo, Jan. 4, 18; m. 46. PSYCHOLOGY. B.A, Cent. YMCA Col, 42; Ph.D, Chicago, 52. Asst, orthogenic sch, Chicago, 42-43; instr. psychol, Denver, 46-48, asst. prof, 48-49, 53-57; lectr, Roosevelt, 49-52, asst. prof, 52-53; clin. psychologist & res. specialist, Sonoma State Hosp, Eldridge, Calif, 57-60; asst. prof. psychol, Southern Illinois, 60-64; staff psychologist, Pac. State Hosp, Pomona, Calif, 64-65; sr. psychologist, Fairview State Hosp, 65-68; PSYCHOLOGIST II, WEST. STATE SCH. & HOSP, 68- Summer lectr, Roosevelt Col, 46-48. U.S.A.A.F, 43-46. Psychol. Asn; Soc. Res. Child Develop; Asn. Ment. Deficiency. Clinical, general and developmental psychology; behavioral therapy. Address: Western State School & Hospital, Canonsburg, Pa. 15317.

DAMGAARD, PROF. JOHN A(NDREASEN), JR, b. New Rochelle, N.Y, Nov. 19, 17; m. 54; c. 1. MANAGEMENT, LAW. A.B, Colo. Col, 39; M.B.A, Michigan, 42; Ed.D, Utah, 56; dipl. law, LaSalle Exten. Univ, 67, L.L.B, 68. Personnel asst, personnel planning dept, Detroit Edison Co, 46-48; asst. prof. & head indust. admin. concentration, col. bus. admin, New Mexico, 48-53; prin, Utah State Indust. Sch, 53-54; asst. prof. ed. & soc. sci, Col. South. Utah, 55-56; consult. & dir. training; U.S. Navy Sch, 56-57, prof. indust. mgt, 57-61; asst. prof. soc. sci, COLO. STATE COL, 62-66, ASSOC. PROF. BUS, 66- Chmn, N.Mex. Econ. Develop. Conf, 49. U.S.N.R, 42-46, Lt. Comdr. Soc. Int. Law. Labor management arbitration; behavioral science and sensitivity training. Publ: Team vs. individual performance in a job evaluation exercise; The mediation process; Teacher training programs, East. Bus. Teachers Asn, 64. Address: School of Business, Colorado State College, Greeley, Colo. 80631.

DAMIANOPOULOS, DR. ERNEST N, b. Parori, Florina, Greece, July 10, 28; m. 54; c. 3. PSYCHOLOGY. A.B, Syracuse, 50, A.M, 51, Ph.D.(psychol), 62: Illinois, 51-53; Minnesota, 53-54; M.A, Vermont, 59. Res. asst. bioacoustics, Syracuse, 63; ASST. PROF. PSYCHOL, Fairleigh Dickinson, 63-64; SOUTHEAST. CAMPUS, INDIANA, 64-, res. grant-in-aid, 65, summer res. fels, 66 & 67. U.S.A, 54-56. Learning, verbal learning and classical conditioning; scientific method as an area of study. Publ: S-R contiguity and delay of reinforcement in classical aversive conditioning, Psychol. Rev, 67. Address: Dept. of Psychology, Indiana University, Southeastern Campus, Warder Park, Jeffersonville, Ind. 47130.

DAMIEN, GEORGE D, b. Sofia, Bulgaria, Aug. 28, 14; U.S. citizen; m. 43; c. 3. POLITICAL SCIENCE, PHILOSOPHY. LL.B. & B.A, Geneva, 38, M.A, 40. Polit. correspondent, League of Nations, 35-40; for. serv. officer, Bulgarian Legation, Paris, 46-48; press ed, French Prime Minister, 51-54; lectr, prog. East & Cent. European affairs, Columbia, 57-62; LECTR. POLIT. PHILOS. & SR. ED-WRITER, 62- Lectr. French lang, Sofia State Univ, 44-45. For. areas consult, Free Europe Inc, New York, 54-; consult. reliability sci. conflict anal, For. Policy Res. Inst, Pennsylvania, 67- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Normative and functional structure of the philosophy of conflict thought and development as the essential form of progress; importance and scientific reliability of the dialectical conflict analysis of East-West relationships to the security of the United States. Publ: The Cuban crisis—advancing by retreating, Est & Oueste, 12/62; On the philosophy of contradictions and the categorial conflict development—the Sino-Soviet dispute as a case study in communist conflict thinking, Orbis, winter 68. Address: 924 West End Ave, New York, N.Y. 10025.

DAMON, DR. ALBERT, Internal Med, Phys. Anthrop, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DAMRAU, DR. WILLIAM FRANCIS, b. New York, N.Y, Dec. 15, 15; m. 49. ECONOMICS, STATISTICS. A.B, Brooklyn Col, 38; LL.B, Fordham, 51; Ph.D, N.Y. Univ, 57. FINANCE ANALYST, NEW YORK CITY COUN. 62- Lectr, Bernard Baruch Sch. Bus. & Pub. Admin, City Col, 61- U.S.A, 42-45. 1st Lt. Econ. Asn; Statist. Asn; Finance Asn. Economics of hospital operations; municipal revenue; municipal debt policy. Address: 185 Park Row, New York, N.Y. 10038.

DANA, PROF. RICHARD H(ENRY), b. Bronxville, N.Y, June 14, 27; m. 65. PSYCHOLOGY. B.A, Princeton, 49; M.S, Illinois, 51, Ph.D.(psychol), 53. Clin. psychologist, med. div, Vet. Admin, Denver, Colo, 53; Minn. Dept. Pub. Welfare, 54; res. assoc, St. Louis State Hosp, 55; asst. prof. PSYCHOL, Wisconsin, Milwaukee, 56-57; Nevada, 57-61; assoc. prof, West Virginia, 61-63, prof, 63-64; vis. prof, South Florida, 64-65; PROF, Wyoming, 65-67; MARQUETTE, 67-, CLIN. PROF, SCH. MED, 67- Consult, Vet. Admin, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. Sig.C, U.S.A, 45-46. Psychol. Asn. Personality theory; clinical projective techniques; psychotherapy. Publ: A manual for objective TAT scoring; Foundations of clinical psychology, Van Nostrand, 66; The clinical psychologist, Psychol. Reports, 66. Address: Dept. of Psychology, Marquette University, Milwaukee, Wis. 53233.

DANCE, DEAN MAURICE, b. Bismarck, N.Dak, Jan. 14, 23; m. 44. ECONOMICS. B.A, Washington (Seattle), 47; fel, Wisconsin, 48-49, M.S. 49, Ph.D. 53. Asst. prof. ECON, Los Angeles State Col, 50-56, assoc. prof, 56-57; SAN FERNANDO VALLEY STATE COL, 58, PROF. & CHMN. DEPT, 59-, DEAN LETTERS & SCI, 65- Fel, Claremont Men's Col, 56. Consult, Int. Coop. Admin, Mex, 60. U.S.A.A.F, 43-46, Lt. Econ. Asn. Labor economics; monetary policy. Publ: Current status of agricultural labor in the U.S, Proc. West. Econ. Asn. Address: Dept. of Economics, San Fernando State College, 18111 Nordhoff St, Northridge, Calif. 91324.

D'ANDRADE, DR. ROY G, b. New York, N.Y, Nov, 6, 31; m. 55; c. 3. ANTHROPOLOGY. B.A, Connecticut, 57; Ph.D.(soc. rels, anthrop), Harvard, 62. ASST. PROF. ANTHROP, STANFORD, 62- Carnegie Corp. N.Y. grant African res. & ed. develop, 66-67. U.S.A, 51-53, 2nd Lt. Anthrop. Asn.

Psychological aspects of cultural beliefs and practices; mathematical and computer applications to cultural data. Publ: Transcultural studies in cognition, Am. Anthropologist, 6/64. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

D'ANDREA, DR. THOMAS JAMES, b. Keewatin, Minn, Feb. 11, 35; m. 63; c. 1. PSYCHOLOGY. B.A, Minnesota, 57, Ph.D.(psychol), 64. From res. asst. to res. fel. PSYCHOL, Minnesota, 57-64; ASST. PROF, HAVERFORD COL, 64- Participant-observer, Dept. Health, Ed. & Welfare res. grant, 66; prog. dir, Nat. Inst. Ment. Health training grant, 67- Psychol. Asn. Operant conditioning. Address: Dept. of Psychology, Haverford College, Haverford, Pa. 19041.

DANELSKI, DR. DAVID J(OSEPH), b. Green Bay, Wis, Oct. 29, 30; m. 54; c. 5. POLITICAL SCIENCE, SOCIAL PSYCHOLOGY. LL.B, De Paul, 53; B.A, Seattle, 55; M.A, Chicago, 57, Asher fel, 57-58, univ. fel, 58-59, Ph.D, 61. Private practice, 55-56; res. attorney, Am. Bar Found, 57-60; asst. prof. POLIT. SCI, Washington (Seattle), 61-64, ASSOC. PROF, 64-65; YALE, 65-, lectr, 64-65. From instr. to asst. prof, Illinois, 59-61; Fulbright lectr, Tokyo Univ, 68-69; Guggenheim fel, 68-69. Mem. govt. & legal processes cmt, Soc. Sci. Res. Coun, 66- U.S.N.R, 53-55, Lt.(jg). Polit. Sci. Asn. Empirical study of legal and political phenomena, particularly the American judiciary, in terms of concepts and hypotheses derived from social psychology. Publ: A Supreme Court Justice is appointed, Random, 64; Values as variables in judicial decision-making: notes toward a theory, Vanderbilt Law Rev, 66; Conflict and its resolution in the Supreme Court, J. Conflict Resolution, 67. Address: Dept. of Political Science, Yale University, 1303 A Yale Station, New Haven, Conn. 06520.

DANFORD, DR. BART H, b. Wichita, Kans, Apr. 26, 30; m. 52; c. 2. CLINICAL PSYCHOLOGY. B.A, Wichita, 52; M.A, Houston, 56, Ph.D.(psychol), 64. Instr. psychol, med. br, Texas, 58-64; ASST. PROF. PSYCHIAT. & PEDIAT, MED. CENTER, ARKANSAS, 64- U.S.A.F, 52-54, Capt. Psychol. Asn. Address: Dept. of Psychiatry, University of Arkansas Medical Center, Little Rock, Ark. 72005.

DANFORTH, DR. WALTER J(AMES), b. Kansas City, Mo, Feb. 9, 34; m. 61; c. 3. PSYCHOLOGY, CLINICAL PSYCHOLOGY. B.S, Kansas State, 59; M.A, Missouri, Kansas City, 65, Ph.D.(clin. psychol), 68. ASST. PROF. PSYCHOL, ARKANSAS, 67- U.S.A, 56-58. Psychol. Asn. Conceptual organization; client-therapist variables and conceptual processes in psychotherapy. Address: Dept. of Psychology, University of Arkansas, Fayetteville, Ark. 72701.

D'ANGELO, DR. RITA Y, b. New York, N.Y, Apr. 21, 28. PSYCHOLOGY. B.A, Hunter Col, 48; M.A, Fordham, 50, Ph.D.(clin. psychol), 61. Intake worker child placement, Cath. Home Bur, 49-50; clin. psychologist-intern, Cath. Charities Guid. Inst, 50-51, jr. psychologist, 51-53; asst. prof. acad. psychol, Marymount Col.(N.Y), 53-57; supv. clin. psychologist, Mt. Florence Residential Treatment Center, 57-62; ASST. PROF. ACAD. PSYCHOL, Long Island, 62-64; HUNTER COL, 64- Coordinator clin. res. Nat. Inst. Ment. Health grant, 64-67; dir. psychol. serv, Head Start Prog, Archdiocese New York, 67- Consult, Cath. Charities Guid. Inst, 53- Psychol. Asn; Soc. Proj. Tech. & Personality Assessment. Evaluation of therapy effectiveness; clinical child psychology; community psychology. Publ: Co-auth, A comparison of Negro and white pre-school children in language development and Good-enough IQ, J. Genetic Psychol, 52; auth, Attitudes, values and motivational systems of American college students, Cath. Psychol. Record, 65; co-auth, An evaluation of various therapy approaches with lower socio-economic group children, J. Psychol, 67. Address: Dept. of Psychology, Hunter College in the Bronx, New York, N.Y. 10468.

DANHOF, PROF. CLARENCE H(ENRY), b. Sully, Iowa, Sept. 12, 11; m. 35; c. 4. ECONOMICS. A.B, Kalamazoo Col, 32; M.A, Michigan, 33, Ph.D, 39. Asst. prof. econ, Lehigh, 37-42; br. chief, War Labor Bd, 42-43; ed, Surv. Current Bus, 43-45; br. chief, U.S. Bur. Budget, 45-47; dir. off. defense hist, 51-53; asst. prof. pub. & int. affairs, Princeton, 46-51; prof. econ, Tulane, 53-61; mem. sr. staff, Brookings Inst, 61-66, PROF. ECON, GEORGE WASHINGTON, 66- Lectr, Columbia, 49. Consult, Coop. State Govt. Orgn, 49; Econ. Coop. Admin, 51. Econ. Asn; Econ. Hist. Asn; Agr. Hist. Soc; Brit. Econ. Hist. Soc. Economic and agricultural history; science and technology policy. Publ: Change in agriculture, the northern states, Harvard, 68; Government contracting and technological change, Brookings, 68; Four decades of thought on the south's economic problems, In: Essays in southern economic development, Univ. North Carolina, 64. Address: 7811 Hamilton Spring Rd, Bethesda, Md. 20034.

DANIEL, CHARLES THOMAS, b. Oxford, N.C, Feb. 15, 23. SOCIOLOGY. B.A, North Carolina, 47; M.A, Columbia, 50. Assoc. ed, Dun's Rev. & Mod. Indust, 54-55; researcher, West. Union Tel. Co, 55-56; acct. res. supvr, Kenyon & Eckhardt Advert. Co, 56-64; acct. res. supvr, William ESTY Co, 64-65; ASSOC. RES. DIR, SULLIVAN, STAUFFER, COLWELL & BAYLES ADVERT. CO, 65- U.S.N.R, 43-46, Lt.(jg). Sociol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Public opinion research; theory; social stratification. Address: 765 Riverside Dr, Apt. 1K, New York, N.Y. 10032.

DANIEL, PROF. COLDWELL, III, b. New Orleans, La, Aug. 30, 26; m. 59; c. 2. ECONOMICS. B.B.A, Tulane, 49; M.B.A, Indiana, 50; Du Pont fel, Virginia, 53-56, univ. fel, 57-58, Ph.D.(econ), 59. Asst, Indiana, 49-50; instr. statist, Virginia, 55-56; econ, Pomona Col, 57-58; prof. & chmn. dept, Southern Mississippi, 58-65, acting dir, bur. bus. & econ. res, 63-65, faculty res. grants, 62-64; PROF. ECON, HOUSTON, 65- Polit. Econ. Conf. fel, North Carolina, 59; Fulbright vis. prof, Dacca, Pakistan, 61-62; fel, Inst. Paper Chem, 62; proj. dir, Miss. Test Facility Econ. Impact Study, 63; Nat. Sci. Found. sci. faculty fel, Chicago, 64-65; Conferee, seminar econ. of regulated pub. utilities, grad. sch. bus, Chicago & Am. Tel. & Tel. Co, 67. Consult, South. Bell Tel. & Tel. Co, 61, 63. U.S.A.A.F, 45-46; U.S.A, 51-53, 1st Lt. Econ. Asn. Mathematical economics; econometrics; political economy. Publ: Price regulation through guideposts: the 1965 aluminum case and its implications, West. Econ. J, 3/67; Freedom, equity, and the war on poverty, Am. J. Econ. & Sociol, 10/67; The market for a consumers' good under universally competitive conditions: a complete summary, Soc. & Econ. Studies, 12/67. Address: Dept. of Economics, University of Houston, Houston, Tex. 77004.

DANIEL, ELEANOR S, b. New York, N.Y, Feb. 8, 17; m. 52; c. 2. ECONOMICS. B.A, Mt. Holyoke Col, 36; M.A, Columbia, 37. Econ. analyst, U.S. Steel Corp, 38-39; instr, Brooklyn Col, 39-40; supvr. res. div, MUTUAL LIFE INS. CO, NEW YORK, 40-46, res. assoc, 46-55, DIR. ECON. RES, 55- Chmn, Downtown Economists, 64-66; mem. cmt. econ. growth, bus. res. adv. coun, U.S. Dept. Labor, 66-68. Econ. Asn; Statist. Asn; Finance Asn; Nat. Asn. Bus. Econ; Planning Asn. Monetary problems; insurance and investments; urban land economics. Publ: Our national debt and our savings; Some observations on recent studies of investment risk, J. Finance; Retirement funds, capital markets and growth. Address: 34 North Dr, East Brunswick, N.J. 08816.

DANIEL, JOHN C(ARL), Econ, Finance, see 10th ed, Soc. & Behav. Vols.

DANIEL, DR. KATHRYN BARCHARD, b. Foley, Ala, Jan. 9, 31; m. 54; c. 1. EDUCATIONAL PSYCHOLOGY, COUNSELING. B.S, Alabama, 52, Nat. Defense Ed. Act fels, 60-63, M.A, 61, A.A, 62, Ph.D.(ed. psychol), 63. Teacher Baldwin County Bd. Ed, Ala, 52-60; asst. prof. ED. PSYCHOL, Monmouth Col.(N.J), 63-64; ASSOC. PROF, Newark State Col, 64-66; SOUTH CAROLINA, 66- Consult, schs, N.J, 63-66 & S.C, 66-; Regional Ed. Lab. Carolinas & Va, 67- Psychol. Asn; Personnel & Guid. Asn. Effects of reinforcement and research in disadvantaged youth. Publ: Two chapters, In: Perspectives in the education of disadvantaged children, World, 67. Address: 301 N. Stonehedge Dr, Columbia, S.C. 29210.

DANIEL, PROF. LARK, b. Dallas, Tex, Nov. 25, 22; m. 49. PSYCHOLOGY. B.A, Southern Methodist, 51, M.A, 52; fel, Purdue, 54-55, Ph.D.(appl. soc. psychol), 55. Sr. asst, dept. psychol, Southern Methodist, 51-52; instr. PSYCHOL, Oregon State Col, 52-54; asst. prof, SAN DIEGO STATE COL, 55-64, PROF, 64- Dir, Nat. Sci. Found. res. projs, 62-64; summer participant, Center Adv. Study Behav. Sci. seminar, 66. U.S.A, 42-46, 1st Lt. Nat. Ed. Asn; Asn. Ed. Broadcasters; Psychol. Asn. Human communication; production, utilization and evaluation of new teaching devices and methods in education. Publ: An outline of variables related to research in automated teaching, 62; Guide for the application of behavior principles to the improved production and use of televised instruction, 66; Five year comparative study of student attitude and learning in conventional and television sections of general psychology, 67. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

DANIEL, DR. ROBERT S(TRONGMAN), Psychol, see 11th ed, Phys. & Biol. Vols.

DANIEL, DEAN V(ATTEL) E(LBERT), Sociol, see 10th ed, Soc. & Behav. Vols.

DANIEL, PROF. WILLIAM J(OHN), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

DANIELIAN, DR. JACK, b. Methuen, Mass, Oct. 25, 34. SOCIAL PSYCHOLOGY. B.A, Harvard, 56; M.A, N.Y. Univ, 60; Ph.D.(soc. psychol), Columbia, 64. RES. SCIENTIST, HUMRRO, GEORGE WASHINGTON, 64- Am. Psychol. Asn. travel grant to Moscow, U.S.S.R, Aug, 66. U.S.A, 57-59. Psychol. Asn; Soc. Psychol. Study Social Issues. Interpersonal perception; cross-cultural research; psychology of value systems. Publ: Co-auth, An analysis of human relations training and its implications for overseas performance, HumRRO Tech. Report, George Washington, 8/66; auth, Live simulation of affect-laden cultural cognitions, J. Conflict Resolution, 9/67; Psychological and methodological evaluation of the components of judging accuracy, Perceptual & Motor Skills, 67. Address: 5055 Seminary Rd, Apt. 231, Alexandria, Va. 22311.

DANIELS, DR. ARLENE K, b. New York, N.Y, Dec. 10, 30; m. 56. SOCIOLOGY. A.B, California, Berkeley, 52, M.A, 54, Ph.D.(sociol), 60. Prin. investr. surv. dentists, sch. pub. health, California, Berkeley, 57-58, instr. speech, 58-60; res. assoc. SOCIOL, Ment. Res. Inst, 60-66; lectr, SAN FRANCISCO STATE COL, 66-67, ASSOC. PROF, 67- Nat. Inst. Ment. Health fel. law & psychiat, sch. criminol, California, Berkeley, 65-66; prin. investr. soc. control in professions, Nat. Inst. Child Health & Human Develop, 66-69. Consult, Monteith Col, Wayne State, 61-64; State Dept. Ment. Health, Calif; Calif. State Legis. Fel. Sociol. Asn; Soc. Study Social Probs; Law & Society Asn. Social psychology; medical sociology; sociology of occupations and professions. Publ: Co-auth, Social function of the career fool, Psychiatry, 64; Ideological resolution of role conflicts in military psychiatry, J. Am. Psychol. Asn, 66; auth, The low caste stranger, In: Politics, ethics and social research, Schenkman, 67. Address: Dept. of Sociology, San Francisco State College, San Francisco, Calif. 94132.

DANIELS, DR. EDGAR E, b. Elkins, W.Va, May 8, 08; m. 42; c. 4. PSYCHOANALYSIS. B.A, Southern California, 30, M.A, 31; Vienna Psychoanal. Inst, 33-34; Ph.D.(psychol), Vienna, 34. Private practice, 34-41; with U.S. Govt. & private indust, 43-49; private practice, 49- Fel. AAAS; Asn. Appl. Psychoanal; sr. mem. Psychol. Asn. for Psychoanal; fel. Psychol. Asn, Asn. Appl. Psychoanal. Private and group psychoanalysis. Address: 2565 Pacific Ave, Long Beach, Calif. 90806.

DANIELS, DR. GERT L, Zool, Anthrop, see 11th ed, Phys. & Biol. Vols.

DANIELS, DR. HARRY WALLER, Psychol, see 10th ed, Soc. & Behav. Vols.

DANIELS, DR. PHILIP B(LISS), b. Annabella, Utah, Nov. 9, 28; m. 51; c. 5. SOCIAL PSYCHOLOGY. B.S, Brigham Young, 54, M.S, 56; Nat. Inst. Ment. Health fel, Harvard, 59-61, Ph.D, 62. Asst. prof. PSYCHOL, BRIGHAM YOUNG, 61-65, ASSOC. PROF, 65- Appl. behav, sci. intern, Nat. Training Labs, 65-66, assoc, Nat. Training Labs-Inst. Appl. Behav. Sci, 66- U.S.A.F, 54-56, Res, 56-62, 1st Lt. Psychol. Asn. Training for interpersonal and organizational effectiveness through laboratory methods and consultation;

the role of collaboration and conflict in change and growth; planned change. Publ: Strategies to facilitate problem solving, Brigham Young, 64. Address: Dept. of Psychology, Brigham Young University, Provo, Utah 84601.

DANIELS, DR. ROBERT VINCENT, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DANIELS, DR. WILLIAM JAMES, b. Chicago, Ill, Mar. 7, 40; m. 63. POLITICAL SCIENCE. B.A, Upper Iowa, 62; M.A, Iowa, 64, Ph.D.(polit. sci), 68. ASST. PROF. POLIT. SCI, UNION COL.(N.Y.), 66- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Judicial process and jurimetrics. Address: Dept. of Political Science, Union College, Schenectady, N.Y. 12308.

DANIELSON, DEAN WAYNE ALLEN, b. Burlington, Iowa, Dec. 6, 29; m. 55; c. 4. JOURNALISM, COMMUNICATION. B.A, Iowa, 52; M.A, Stanford, 53, Ph.D.(mass commun), 57. Asst. prof. JOURNALISM, Wisconsin, 57-59; assoc. prof, NORTH CAROLINA, 59-63, PROF, 63-, DEAN SCH. JOURNALISM, 64- Vis. prof, Texas, Austin, 67-68. Ed, Journalism Abstracts, Vols. 1-5, Asn. Ed. Journalism, 63-67. Mem. steering cmt, Am. Newspaper Pub. Asn. News Res. Center, 65- Asn. Ed. Journalism; Asn. Schs. & Depts. of Journalism (pres, 67-68); Asn. Pub. Opinion Res; Sociol. Asn. Surveys; content analyses; experiments in field of mass communication and its effects in society; use of computer in the analysis of verbal data. Publ: Co-auth, A computerized bibliography of mass communication research, 1944-1964, Mag. Pub. Asn, 67; Diffusion of knowledge of the major news story, Journalism Quart, 60. Address: University of North Carolina School of Journalism, Chapel Hill, N.C. 27514.

DANKERS, PROF. WILLIAM HENRY, b. Lake City, Minn, Feb. 26, 03. AGRICULTURAL ECONOMICS. B.S, Minnesota, 29, M.S, 31, Ph.D.(agr. econ), 36; Cornell, 32. Asst. farm mgt, div. agr. econ, Minnesota, 26-29, farm cost acct. proj, 29-30, instr. & asst. prof. mkt, sch. agr, 30-38, prof. & exten. economist, agr. exten. serv, 38-49, 51-53; consult. agr. mil. govt, Bavaria, Germany, 49, chief food, agr. & forestry, High Cmn. Govt. & Mutual Security Admin, 49-51; spec. lectr. agr. policy & rural youth, off. pub. affairs, High Cmn. Govt, U.S. Dept. State, West. Germany, 53-54; PROF. AGR. ECON. & EXTEN. ECONOMIST, AGR. EXTEN. SERV, MINNESOTA, ST. PAUL, 54- Mem. U.S. For. Serv. Surv. & Study Team, results of Marshall Plan projs. west. European countries, 57, food mkt. trends & develops. west. Europe, 60; spec. lectr, U.S. Specialists Exchange Prog, Dept. State, north. Europe, 57. Superior serv. award, U.S. Dept. Agr, 62. Dairy and poultry marketing; agricultural policy and general economics. Publ: Marketing Minnesota eggs and poultry & Some legal requirements for cooperative associations, Agr. Exten. Bull; Prospects for the development of Germany based on agricultural research, Battelle Mem. Inst. Rep. Address: Agricultural Extension Service, College of Agriculture, University of Minnesota, St. Paul, Minn. 55101.

DANKERT, PROF. C(LYDE) E(DWARD), b. Hepworth, Ont, Jan. 28, 01; nat; m. 34; c. 2. LABOR ECONOMICS. A.B, McMaster, 26; A.M, Chicago, 27, Ph.D, 30. Lectr, Saskatchewan, 29; from instr. to prof. ECON, DARTMOUTH COL, 30-66, chmn. dept, 49-53, EMER. PROF, 66- Lectr, Chicago. Pub. rep. indust. cmts, Fair Labor Standards Act. Econ. Asn; Indust. Rels. Res. Asn. Technology and labor; economics of labor; trade unionism. Publ: Contemporary unionism in the United States; Introduction to labor. Address: Dept. of Economics, Dartmouth College, Hanover, N.H. 03755.

DANLEY, PROF. ROBERT A, b. Frankfort, Ind, Nov. 25, 20; m. 58; c. 2. RURAL SOCIOLOGY. A.B, Illinois, 48; M.S, Rochester, 50; Ph.D, Cornell, 58. Instr. soc. welfare, Cornell, 57-58; asst. prof. rural sociol, Kentucky, 58-59; Cornell, 59-64, RES. ASSOC. soc. psychiat, 64-66; BEHAV. SCI, SCH. PUB. HEALTH, HARVARD, 66- Rural Sociol. Soc. Methodology of sociology; measurement; social disintegration; mental health; psychiatric epidemiology. Publ: Co-auth, Validity in mental health surveys, Can. Psychiat. Asn. J, 5-6, 66. Address: Dept. of Behavioral Sciences, Harvard University School of Public Health, 55 Shattuck St, Boston, Mass. 02115.

DANNENBERG, F(REDERICK) M, Econ, see 10th ed, Soc. & Behav. Vols.

DANNENFELDT, PROF. KARL H(ENRY), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DANNER, PROF. M(AURICE) J(USTON), b. Okla, Apr. 18, 17; m. 52; c. 3. AGRICULTURAL ECONOMICS. B.S, Tex. Tech. Col, 41; M.S, Tennessee, 42; Illinois, 42-43. Asst. prof. AGR. ECON, AUBURN, 43-44, assoc. prof, 44-56, PROF. & AGR. ECONOMIST, 56- Agr. Econ. Asn. Livestock and meats marketing; consumer economics. Publ: Marketing cattle and calves on Alabama auction markets; Beef preferences and purchasing practices; Decision making in meat buying. Address: Dept. of Agricultural Economics, Auburn University, Auburn, Ala. 36830.

DANNER, DR. PETER L(YN), b. Follansbee, W.Va, Apr. 7, 21; m. 52; c. 7. ECONOMICS. A.B, St. Louis, 45, Ph.L, 48, M.A, 49; Ph.D.(econ), Syracuse, 64. Instr, high sch, 49-50; cost acct, Allis-Chalmers Mfg. Co, 50-52; instr. ECON, St. Ambrose Col, 52-54, asst. prof, 54-55, assoc. prof. & chmn. dept, 58-61. asst. prof, LeMoyne Col, 55-58; MARQUETTE, 61-67, ASSOC. PROF, 67- Soc. Relig. Higher Ed. fel, 64-65. Econ. Asn. The interrelation between moral and economic principles as norms of action; the development of Adam Smith's and Karl Marx' philosophies of wealth. Publ: The forgotten virtue, America, 4/59; A justification of self-interest, Rev. Soc. Econ, 9/61; Affluence and the Christian conscience, Thought, 6/67. Address: College of Business Administration, Marquette University, Milwaukee, Wis. 53233.

DANSKIN, PROF. DAVID G(UILD), b. Boston, Mass, Apr. 17, 25; m. 50; c. 1. PSYCHOLOGY. A.B, Redlands, 50; M.A, Ohio State, 51, Ph.D.(psychol), 54. Asst. counsr, Ohio State, 51-52, res. assoc. psychol, 52-53, asst. instr, 53-54; asst. prof. ed, Hopkins, 54-59; PROF. PSYCHOL. & DIR. COUNSELING CENTER, KANSAS STATE, 59- Psychol. Asn; Personnel & Guid. Asn. Campus ecology; student development. Address: Counseling Center, Kansas State University, Manhattan, Kans. 66502.

DANSON, DR. CARL M, b. New York, N.Y, May 1, 39, m. 63; c. 1. PSYCHOLOGY. B.A, Ohio State, 60, M.A, 63, Ph.D, 65. ASST. PROF. PSYCHOL, CALIF. STATE COL. LONG BEACH, 65- Experimental analysis of behavior. Publ: The effects of extinction on two concurrent verbal responses, J. Verbal Learning & Verbal Behavior, 66. Address: Dept. of Psychology, California State College at Long Beach, Long Beach, Calif. 90804.

DANSON, DR. EDWARD BRIDGE, b. Glendale, Ohio, Mar. 22, 16; m. 42; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Arizona, 40; M.A, Harvard, 48, Ph.D.(anthrop), 52. Asst. prof. anthrop, Colorado, 48-50; prof, Arizona, 50-56, asst. dir. archaeol. field sch, 52-53, acting dir, 54; asst. dir, MUS. NORTH. ARIZ, 56-58, DIR, 59- Mem. adv. bd, Nat. Park Serv, 58-64, adv. coun, 64-; adv. cmt. multiple-use mgt, Coconino Nat. Forest, 64-; Ariz. Hist. Cmn, 67- U.S.N.R, 42-45, Lt. Comdr. Fel. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; Soc. Hist. Archaeol. Museology. Publ: An archaeological survey of west central New Mexico and east central Arizona, Papers Peabody, Mus, Harvard. Address: Museum of Northern Arizona, Box 1389, Flagstaff, Ariz. 86001.

DANTE, PROF. HARRIS L, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DANTON, PROF. LAWRENCE A(LONZO), b. Waterloo, Iowa, Aug. 31, 22; m. 44; c. 3. ECONOMICS. B.A, Northern Iowa, 47; M.S, Iowa State, 48; Ph.D.(bus. admin), Nebraska, 64. Instr. econ, Kent State, 49-52; sales rep, United Biscuit Co, 52-54; purchasing agent, Prawl Eng. Corp, 55-59; teaching asst. bus. admin, Nebraska, 59-62; asst. prof. econ, Omaha, 62-64, assoc. prof, 64-67, dir. Bur. Socio-econ. Res. & Omaha urban area res. proj, 66-67; PROF. ECON. & BUS. ADMIN. & CHMN. DEPT, CENT. WASH. STATE COL, 67- U.S.A, 43-46, 1st Lt. Econ. Asn; Indust. Rels. Res. Asn. Labor economics; industrial relations; urban development. Publ: Co-auth, Vocational training for industry in the Northern Plains, Midcontinent Res. & Develop. Coun, 65; auth, The potential additional supply of labor available to the Omaha SMSA, Univ. Omaha, 67; The decline of an oligopoly, changes in the structure of the meat packing industry since W.W.II, Rocky Mt. Soc. Sci. J, 4/68. Address: Dept. of Economics & Business, Central Washington State College, Ellensburg, Wash. 98926.

D'ANTONIO, PROF. WILLIAM V(INCENT), b. New Haven, Conn, Feb. 7, 26; m. 50; c. 6. SOCIOLOGY. B.A, Yale, 49; M.A, Wisconsin, 53; Ph.D.(sociol, anthrop), Mich. State, 58. Master Spanish, Loomis Sch, Conn, 49-54; instr. SOCIOL, Mich. State, 57-59; asst. prof, NOTRE DAME, 59-62; assoc. prof, 62-67, PROF, 67-, CHMN. DEPT. SOCIOL. & ANTHROP, 66- Field dir, U.S. Pub. Health Serv. res. proj. Anglo-Latino rel. in communities & hosps, Mich. State, 58-59; summers, Soc. Sci. Res. Coun. res. grant, 62, 64. U.S.N, 44-46. Sociol. Asn; Asn. Latin Am. Studies. Political sociology, especially community power structures; political and economic institutions of Mexican society; party structures and ideologies in a Mexican community; recruitment to community leadership, the role of the voluntary association. Publ: Co-ed, Power and democracy in America, 61, Spanish trans, 65 & co-auth, Influentials in two border cities, 65, Univ. Notre Dame; co-ed, Religion, revolution and reform: new forces for change in Latin America, Praeger, 64, Spanish trans, 67. Address: Dept. of Sociology, University of Notre Dame, 323 O'Shaughnessy Hall, Notre Dame, Ind. 46556.

DANZIG, DR. MARTIN E, b. Jerusalem, Israel, Dec. 22, 11; U.S. citizen; m. 40; c. 3. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, St. John's, 39; Columbia, 40-42; M.A, N.Y. Univ, 54, Ph.D.(human rels, sociol, soc. psychol), 58; U.S. Dept. Agr. Grad. Sch, 62-63. Exec. dir. adult ed. & admin, Community Coun, 47-60; Children's Serv, 60-61; dir. res. & assoc. prof. soc. & behav. res, Howard, 61-64; dir. res, U.S. Pub. Health Serv. grant, 64-65; dir. urban studies, Briarcliff Col, 65-67; COORDINATOR STUDIES, KINGSBOROUGH COMMUNITY COL, 67-, res. consult, 66-67. Lectr, New Sch. Soc. Res, 60-61; Hofstra, 65-67; N.Y. Univ, 66-67. Consult, Center Youth & Community Develop, D.C, 61-64; Bd. Ed, Phila, 65-66; Franklin D. Roosevelt Hosp, Montrose, N.Y, 65-67. AAAS; Acad. Polit. & Soc. Sci; Ed. Res. Asn; Sociol. Asn; Soc. Study Social Probs; Pub. Health Asn. Education; mental health; environmental forces and urban problems; teaching and administration of behavioral division in sociology. Publ: A study of patterns facilitating participation and the deterrents that hinder cooperation, Sch. Soc. Work, Howard, 64; An analysis of inter-agency operating coordination existing between public welfare departments and community services agencies, as reported by public welfare supervisors in five states, U.S. Pub. Health Serv, 65; Paramedical health careers: an analysis of emerging manpower needs in urbanized society, Kingsborough Community Col, City Univ. New York, 67. Address: 900 Madison Place, North Merrick, N.Y. 11566.

DANZIGER, PROF. KURT, b. Breslau, Germany, June 3, 26; m. 51; c. 3. PSYCHOLOGY. M.Sc, Cape Town, 49; D.Phil.(psychol), Oxford, 52. Lectr. psychol, Melbourne, 51-54; Natal, 54-57; prof. soc. psychol, Gadjah Mada, Jogjakarta, 58-59; head dept. PSYCHOL, Cape Town, 60-65; PROF, YORK, 65-, CHMN. DEPT, 66- Publ: Parental demands and social class in Java, J. Soc. Psychol, 60; The psychological future of an oppressed group, Soc. Forces, 63; The effect of variable stimulus intensity on estimation of duration, Perceptual & Motor Skills, 65. Address: Dept. of Psychology, York University, Toronto, Ont, Can.

DANZIGER, LAWRENCE, Statist, see 11th ed, Phys. & Biol. Vols.

DAOUST, CHARLES F(RANKLIN), Econ. & Urban Geog, see 10th ed, Soc. & Behav. Vols.

DARBES, PROF. ALEX, b. Cleveland, Ohio, Mar. 12, 19; m. 48; c. 2. PSYCHOLOGY. Ph.D, Western Reserve, 51. Instr. PSYCHOL, Western Reserve, 48-52; dir. res, Cleveland State Hosp, 52-57; PROF, Marshall, 57-63; Morris Harvey Col, 63-67; Slippery Rock State Col, 67-68; AKRON, 68- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 66. U.S.A, 41-44. Psychol. Asn. Personality theory; psychotherapy. Address: Dept. of Psychology, University of Akron, Akron, Ohio 44304.

DARBY, R(ALPH) L(EWIS), Info. Sci, Chem. Eng, see 11th ed, Phys. & Biol. Vols.

DARBYSHIRE, PROF. LESLIE, b. Blackburn, Eng, Nov. 13, 25; m. 49; c. 2. ECONOMICS, FINANCE. B.A, Bristol, 50; D.B.A, Washington (Seattle), 57. Teaching fel. acct, Washington (Seattle), 50-51, assoc. prof, 51-52, instr. banking, statist. & mgt, 52-54; asst. prof. econ. & finance, St. Louis, 54; assoc. prof. bus, San Jose State Col, 56-62; prof. mgt, U.S. Naval Postgrad. Sch, 62-66; vis. prof. finance & mgt, col. bus. admin, Hawaii, 66-67; PROF. MGT, NAVAL POSTGRAD. SCH, 67- Consult, Int. Bus. Mach. Corp, Calif, 58-66; Gen. Elec. Atomic Energy Div, 61-62; Lockheed Missiles & Space Corp, 61-63; New York Stock Exchange, 63-66; Am. Factors, Hawaii, 67. R.N, 44-46. Financial Anal. Fedn; Econ. Asn; Finance Asn. Integration of behavior and organization theory with microeconomic assumption of profit maximization; essential characteristic of organizational growth. Publ: The competitive position of imported automobiles in the American market, Univ. Washington, 57. Address: Dept. of Management, Naval Postgraduate School, Monterey, Calif. 93940.

DARCY, PROF. NATALIE TERESA, b. Brooklyn, N.Y, July 29, 09. EDUCATIONAL PSYCHOLOGY & MEASUREMENT. B.S, N.Y. Univ, 31; M.A, Columbia, 36; Ph.D.(ed. psychol), Fordham, 45. Teacher pub. schs, N.Y, 32-46; PROF. ED, BROOKLYN COL, 46- Adj. prof, sch. ed, Fordham, 47-; psychol. consult, U.S. Dept. State res. grant, Uruguay, summer, 58; Fulbright sr. lectr. & res, Eng, 59-60. Fel. Psychol. Asn; Nat. Ed. Asn; fel. Ed. Res. Asn. Bilingualism and the measurement of intelligence; reading improvement in economically deprived areas. Publ: The effects of bilingualism on the measurement of intelligence of children of preschool age, J. Ed. Psychol, 46; The performance of bilingual Puerto Rican children on verbal and on non-language tests of intelligence, J.Ed. Res, 52; Bilingualism and its effects on measured intelligence—review of literature of past decade, J. Genetic Psychol, 103: 259-282. Address: 3 Sheridan Square, New York, N.Y. 10014.

DARCY, DR. ROBERT LELAND, b. Chicago, Ill, May 21, 28; m. 51; c. 4. ECONOMICS. B.A, Knox Col, 50; M.A, Indiana, 53; Develop. fund fel, Colorado, 56-57, Ph.D.(econ), 57. Merchandiser, Montgomery Ward & Co, 53-55; asst. prof. econ, Oregon State, 57-60; Kansas State, 60-61; assoc. prof, Ohio, 61-68, dir. center econ. ed, 66-68; PROF. ECON, COLORADO STATE, 68- Ford Found. summer faculty res. fel, 59. Consult, Colo. Labor Coun, 57; Minn. Nat. Lab, Univ. Minnesota, 63; Scholastic Book Serv, N.Y, Joint Coun. Econ. Ed, New York & Ohio State Univ, 64-65; Consortium Prfnl. Asns, D.C, 66; U.S. Off. Ed, 66-67. Exec. dir, Ohio Coun. Econ. Ed, 61-66. U.S.A, 46-47, 51-53, 1st Lt. Econ. Asn; Asn. Evolutionary Econ; Indust. Rels. Res. Asn. Poverty and human resources; manpower and economic education; measurement of economic understanding and changes in values. Publ: The municipal income tax, Colo. Labor Coun, 57; First steps toward economic understanding, Ohio Univ, 66; Manpower and economic education, Joint Coun. Econ. Ed, 68. Address: Dept. of Economics, Colorado State University, Ft. Collins, Colo. 80521.

DARDANO, DR. JOSEPH F(RANCIS), b. Newton, Mass, Nov. 2, 30; m. 59. EXPERIMENTAL PSYCHOLOGY. B.A, Brown, 52; M.A, Boston, 53; Ph.D, Maryland, 59. Res. psychologist, human eng. lab, Aberdeen Proving Ground, 57-59; med. res. assoc, Anna State Hosp, Md, 59-61; instr. psychol, Rhode Island, 61-62, asst. prof, 62-65; PRIN. INVESTR. BEHAV. RES, SPACE RES. LAB, MARYLAND, 65- U.S. Pub. Health Serv. fel, 64-65. U.S.A, 53-55. AAAS; Psychol. Asn. Learning; human vigilance. Publ: Conductance levels during vigilance task performance; Discriminability of AAOO symbols; Evaluation of radar symbols for target identification. Address: Space Research Lab, Heavy Research Bldg, Unit B, University of Maryland, College Park, Md. 20742.

DARDEN, DR. BILL RAY, b. Lenox, Ga, Jan. 1, 36; m. 61; c. 1. MARKETING. B.S, Ga. Inst. Tech, 59, M.S, 61; Ph.D.(mkt), North Carolina, 66. ASST. PROF. MKT, LA. STATE, 66-, univ. found. res. grant, 67-68. Lectr, Great Books Mgt. Series & Mid-South Exec. Develop. Prog, 67- U.S.N.R, 58-60. Inst. Mgt. Sci. Stochastic models of consumer behavior; operational aspects of decision making; effects of profession on brand choice. Publ: Comments on the rearing of EDP analysts, South. J. Bus, 4/67; An operational approach to product pricing, J. Mkt, 4/68. Address: College of Business, Himes Hall, Box 93, Louisiana State University, Baton Rouge, La. 70803.

DARITY, DR. WILLIAM ALEXANDER, b. Flat Rock, N.C, Jan. 15, 24; m. 50; c. 2. HEALTH EDUCATION. B.S, Shaw, 48; M.S.P.H, N.C. Col. Durham, 49; Ph.D.(pub. health, health ed), North Carolina, Chapel Hill, 63. Pub. health ed, County Health Dept, Charlotte, N.C, 49-50; Dept. Pub. Health, Danville, Va, 50-52; Anti-Tuberc. League, Norfolk, 52-53; WHO health ed. consult, UN Relief & Works Agency, 53-56, WHO prof. health ed, American Univ. Beirut, 56-58, WHO regional adv. health ed, 58-61, WHO staff, North Carolina, 61-63, WHO short-term consult, 63; dir. prog. develop, N.C. Fund, Durham, 64-65; PROF. PUB. HEALTH, MASSACHUSETTS, 65- Lectr, Training Headstart Teachers & Supvrs, faculty mem, Peace Corps Training Prog. Physicians & Conf. Relig. & Poverty, summer, 65; Seminar Prog. Planning for Health Ed, 65. Consult, Peach Corps. Vol, 63; N.C. Fund, 65- WHO temp. adv, Seminar Health Ed. Pub, W.Africa, 57; panelist, Poverty & Pop. Task Force Econ. Growth, 65. U.S.A, 43-47, 1st Lt. Fel. Pub. Health Asn; fel. Sch. Health Asn; Col. Health Ed; Col. Health Asn; Nat. Coun. Health Ed. Pub; Int. Union Health Ed. Family planning and community health; research in attitudes on contraception, as related to family health; sex knowledge, information and attitudes. Publ: Some considerations in developing family planning services, Pub. Health Reports, 8/67; co-auth, Some implications of pregnancy on campus, a research study, J. Am. Col. Health Asn, 2/68 & A global view of health, Health, Phys. Ed. & Recreation Around the World, 68. Address: Public Health Bldg, University of Massachusetts, Amherst, Mass. 01002.

DARK, PROF. PHILIP J.C, b. London, Eng, May 15, 18; m. 42; c. 2. ANTHROPOLOGY. Dipl, London, 48; M.A, Yale, 50, Ph.D, 54. Asst. anthrop, Yale, 51-53; asst. registr, W.African Inst. Soc. & Econ. Res, Univ. Col, Ibadan, Nigeria, 54-56, sr. res. fel. ANTHROP, 57-60; Leverhulme res. fel, Univ. Col, London, 56-57; PROF. SOUTHERN ILLINOIS, 60-, curator, univ. mus, 61-63, chmn. dept. anthrop, 63-66. Nat. Sci. Found. res. grants, 62-64, 66-68; res. assoc, Field Mus. Natural Hist, Chicago, 63- R.N.V.R, 40-46, Lt. Fel. Anthrop. Asn; Ethnol. Soc; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; French Soc. Oceanists; Hist. Soc. Nigeria; Int. African Inst. Ethnology; primitive art and technology, especially Benin art, West African, New Britain and New Guinea; Meso-American ethnohistory, especially pre-Columbian codices. Publ: Bush Negro art; Mixtec ethnohistory: a method of analysis of the codical art; co-auth, Benin art. Address: Dept. of Anthropology, Southern Illinois University, Carbondale, Ill. 62901.

DARLEY, DR. JOHN G(ORDON), b. Pittsburgh, Pa, Feb. 20, 10; m. 36; c. 2. PSYCHOLOGY. A.B, Wesleyan, 31; A.M, Minnesota, 32, Ph.D.(psychol), 37. Psychol. exam, State Employ. Serv, Minn, 32-33; res. & ed. asst, employ. stabilization res. inst, Minnesota, 33-35, instr. & res. counsr, gen. col, 35-38, asst. prof. psychol, 38-43, prof, 46-59, dir. testing bur, 38-43, 46-47, from asst. dean to assoc. dean grad. sch, 47-59; exec. officer, Am. Psychol. Asn, D.C, 59-62; prof. PSYCHOL, MINNESOTA, MINNEAPOLIS, 62-63, CHMN. DEPT, 63- Mem. bd. dirs, Psychol. Corp, 66- Res. assoc, Nat. Defense Res. Cmt, 43-44; mem. sci. adv. bd, U.S. Air Force, 65-; cmn. scholars, Bd. Higher Ed, Ill, 66- Consult, U.S. Navy, U.S. Pub. Health Serv. & Vet. Admin. Dipl, Am. Bd. Exam. Prfnl. Psychol, secy-treas, 47-51; U.S.N.R, 44-46, Lt. Fel. Psychol. Asn.(ed, J. Appl. Psychol, 55-60, Am. Psychol, 59-62). Theory and measurement of vocational interests; interview methods in diagnosis and therapy; prediction of educational and vocational success; social psychology. Publ: Co-auth, Vocational interest measurement, Univ. Minnesota, 55; auth, Promise and performance, Univ. California, 62. Address: 112 Psychology, University of Minnesota, Minneapolis, Minn. 55455.

DARLEY, DR. JOHN McCONNON, b. Minneapolis, Minn, Apr. 3, 38; m. 66. PSYCHOLOGY. B.A, Swarthmore Col, 60; univ. fel, Harvard, 60-61, Nat. Sci. Found. fel, 61-64, M.A, 62, Ph.D.(soc. rels), 65. Asst. prof. PSYCHOL, N.Y. Univ, 64-68; ASSOC. PROF, PRINCETON, 68- AAAS; Psychol. Asn; Soc. Psychol. Study Social Issues. Bystander intervention in emergency situations; social influence processes, deviation and conformity; attitude and opinion change processes; fear and affiliation. Publ: Fear and social comparison as determinants of conformity behavior, J. Personality & Soc. Psychol, 4: 73-78; co-auth, Self evaluation and direct anxiety reduction as determinants of the fear-affiliation relationship, J. Exp. Soc. Psychol, Suppl. 1, 9/66 & Increased liking caused by the anticipation of personal contact, Human rels, 20: 29-40. Address: Dept. of Psychology, Princeton University, Princeton, N.J. 08540.

DARLING, PROF. FRANK CLAYTON, b. Blue Island, Ill, May 8, 25; m. 52; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Principia Col, 51; M.A, Chicago, 57; Ph.D, American Univ, 61. Lectr. int. rel, Chulalongkorn Univ, Thailand, 53-56; res. asst. Asian govt, Cent. Intel. Agency, 57-60; asst. prof. POLIT. SCI, Colorado, 60-65; Fulbright prof, Philippines, 65-66; PROF. & HEAD DEPT, DePAUW, 67- U.S.N, 43-46. Polit. Sci. Asn; Asn. Asian Studies. Impact of the West, especially the United States upon Asian governments and politics; interaction of international relations and comparative politics; impact of external influences on political development of underdeveloped nations. Publ: The geopolitics of American foreign policy in Asia, United Asia (Bombay), 63; Thailand and the United States, Pub. Affairs, 65; America and Thailand, Asian Surv, 67. Address: Dept. of Political Science, DePauw University, Greencastle, Ind. 46135.

DARLING, PROF. PAUL G(IFFORD), b. Pleasantville, N.Y, June 28, 16; m. 45; c. 2. ECONOMICS. A.B, Yale, 37; A.M, N.Y. Univ, 47; Ph.D.(econ), Columbia, 54. Instr. ECON, Rutgers, 46-49; asst. prof, Carnegie Inst. Tech, 49-56; assoc. prof, BOWDOIN COL, 56-60, PROF, 60-, chmn. dept, 65-67. Brookings res. prof, 60-61. Consult, Joint Econ. Cmt. Cong, 61. Mem. res. team, subcmt. economet. model of U.S. econ, Soc. Sci. Res. Coun, 61-62. U.S.A, 42-45, Lt. Econ. Asn; Finance Asn. Monetary and fiscal theory; economic fluctuations and policy. Publ: Surrogative measurements of expectations, Rev. Econ. & Statist; Manufacturers' inventory investment, 1947-1958, Am. Econ. Rev; Evidence on postwar inventory cycles, Proc. Am. Statist. Asn, 61. Address: Dept. of Economics, Bowdoin College, Brunswick, Maine 04011.

DARLING, DR. RALPH P, b. Waterman, Ill, Feb. 23, 06; m. 38. PSYCHOLOGY. A.B, Illinois, 32, A.M, 33, Ph.D.(psychol), 38; Chicago, 46; Washington (St. Louis), 47-48. Student psychologist, Inst. Juvenile Res, 34-37; sr. asst. psychologist, Lincoln State Sch. & Colony, 37-40; DIV. CRIMINOL, STATE PENITENTIARY, ILL, 40-41, supv. psychologist, 46-66, CONSULT. PSYCHOL, 67- U.S.N.R, 41-46. Psychol. Asn. Autonomic action in relation to personality traits of children in a behavior clinic. Address: 1901 State St, Chester, Ill. 62233.

DARLINGTON, DR. MEREDITH W, b. Norfolk, Nebr, Dec. 12, 07; m. 53. PSYCHOLOGY. B.S, Nebraska, 32, M.A, 36, Ph.D, 43. Chief counseling sect, VET. ADMIN. REGIONAL OFF, 46-53, supv. counseling psychologist, 53-55, COUNSELING PSYCHOLOGIST, 55- U.S.A.A.F, 43-46. Psychol. Asn. Publ: A guide for in-service education of elementary teachers; In-service education of teachers and rural community building. Address: 636 Melaleuca Lane, Miami, Fla. 33137.

DARLINGTON, DR. RICHARD B(ENJAMIN), b. Woodbury, N.J, Nov. 16, 37; m. 59; c. 2. PSYCHOLOGY. B.A, Swarthmore Col, 59; Nat. Sci. Found. & Woodrow Wilson fels, Minnesota, 59-60, U.S. Pub. Health Serv. fel, 62-63, Ph.D.(psychol), 63. ASSOC. PROF. PSYCHOL, CORNELL, 63- Res. contract, U.S. Off. Ed, 65-67. Psychometric theory, especially measurement theory and multivariate analysis. Publ: Multiple regression in psychological research and practice, Psychol. Bull, 68. Address: Dept. of Psychology, College of Arts & Sciences, Cornell University, Ithaca, N.Y. 14850.

DARMSTADTER, DR. HENRY, b. Mannheim, Germany, Aug. 3, 24; U.S. citizen; m. 54; c. 1. PSYCHOLOGY. B.A, George Washington, 48; M.A, Pennsylvania, 50, Ph.D.(psychol), 64. Clin. psychologist, Jefferson Med. Col, 52-53; Phila. Gen. Hosp, Pa, 53-54; Eugenia Hosp, Lafayette Hill, Pa, 54-65; CHIEF PSYCHOLOGIST, COMMUNITY MENT. HEALTH CENTER, PA.

HOSP, PHILA, 65- U.S.A, 43-45. Psychol. Asn. Assessment and treatment of psychopathology; humor as a personality dimension. Address: 7030 Marion Lane, Philadelphia, Pa. 19119.

DARMSTADTER, JOEL, b. Mannheim, Germany, Nov. 27, 28; nat; m. 59. ECONOMICS, APPLIED STATISTICS. B.A, George Washington, 50; M.A, New Sch. Soc. Res, 52. Asst. to R.W. Goldsmith, Nat. Bur. Econ. Res, 52-54; economist, Conf. Econ. Progress, 54-55; res. assoc, Nat. Planning Asn, 57-59, assoc. dir. center econ. projections, 54-66; SR. RES. ASSOC, RESOURCES FOR FUTURE, INC, 66- U.S.A, 55-57. Energy economics; long-range economic projections; analysis of economic growth; international economic problems. Publ: Collab, Co-existence: economic challenge and response; auth, Manpower in a long range economic projection model, Indust. Rels, 5/66; co-auth, The national accounts and energy in social and economic problems, Proc. Bus. & Econ. Statist. Sect, Am. Statist. Asn, 66. Address: Resources for the Future, Inc, 1755 Massachusetts Ave. N.W, Washington, D.C. 20036.

DARNALL, DR. ERIE, b. Buffalo, Tex, Jan. 19, 11; m. 35, 59; c. 1. PSYCHOLOGY. B.S, N.Tex. State, 35, M.S, 47; Ph.D.(psychol. & personnel mgt), Texas, 51. Instr, dept. psychol, Texas, 47-51; CONSULT. PSYCHOLOGIST & EXEC. DIR, DARNALL ASSOCS, 51- Consult, Dallas Reading Clin; Dept. Health, Ed. & Welfare. AAAS; Psychol. Asn; Inter-Am. Soc. Psychol. Interdisciplinary approach to counseling; psychology of social tensions; learning. Publ: An interdisciplinary approach to stress problems, J. Am. Optom. Asn. Address: 4153 Travis St, Dallas, Tex. 75204.

DARNTON, DR. DONALD CHARLES, b. Detroit, Mich, Mar. 29, 32; m. 54; c. 2. ECONOMICS. B.A, Col. William & Mary, 53; M.A, Michigan, 56, Ph.D. (econ), 61. Instr. econ, Ohio, 59-61, asst. prof, 61-65, dir. div. res, 62-65; ASSOC. PROF. ECON, VA. POLYTECH, 65- Consult, McGraw-Hill Book Co, 66-67; Surv. & Res. Corp. & bur. pop. & econ. res, Univ. Virginia, 67. U.S.N.R, 53-55, Lt. Econ. Asn; Regional Asn; Econ. Hist. Asn. Growth of sub-national regions, especially port regions. Publ: Location of labor-intensive industries in Upper Ohio River Valley, 62, & co-auth, Growth potential of commercial tourism in Hocking County, Ohio, 64, Ohio Univ; co-auth, Growth potential of southwest Virginia, Va. Polytech, 66. Address: 1204 Highland Ave, Blacksburg, Va. 24060.

DARR, PROF. JOHN W(ALKER), b. Terre Haute, Ind, Sept. 24, 16; m; c. 1. BUSINESS MANAGEMENT. B.S, Indiana, 49, M.B.A, 50; Ph.D.(mgt, econ. mkt), Alabama, 57. Asst, Indiana, 49-50; asst. prof, Georgia, 50-52; asst, Alabama, 52-53, lectr, 56-57; asst. prof, Bowling Green, 53-56; prof. & chmn. dept, Miss. State, 57-65; PROF. MGT, Bowling Green, 65-67; MISSOURI, 67- Consult, Richs, Ga; Ford Motor Co, Mich, Gen. Motors Corp; Hinde & Dauch, Ohio; Stockam Values & Fittings, Ala; South. Bell, Ga; Miss. Valley Gas Corp. & Miss. Lights & Power. U.S.A.A.F, 41-45, Sgt. Econ. Asn. Theory of management. Publ: The role of management development programs, Bowling Green Univ, 66; The management-as-a-process concept: a consideration, Indust. Mgt. Rev, fall 64; Challenges facing management, Personnel Adminstr, 7-8/65. Address: Dept. of Management, University of Missouri, Columbia, Mo. 65201.

DARR, PROF. RICHARD K, b. Fremont, Nebr, May 17, 21. ECONOMICS. B.A, Midland Col, 48; M.A, Nebraska, 52, Ph.D.(econ), 56; Harvard, 53-54. Economist, U.S. Mil. Govt, Germany, 48-50; asst, hist. group, Boston & Maine R.R, 53-54; asst. prof. ECON, Eastern Illinois, 55-56; WIS. STATE, RIVER FALLS, 56-60, assoc. prof, 60-63, PROF, 63- Summers, consult, State Tax Cmnr, Nebr, 56, res. asst, Bur. Hist. Found, 57-58, Ford Found. fel, Mich. State, 59. Ed. adv. Democratic Nat. Cmt, 60; consult, Opinion Res. Corp, 62. U.S.A. 42-46, Sgt. Econ. Asn; Asn. Evolutionary Econ. Railroad transportation and labor economics; taxation and public finance; corporate interlocking directorates. Publ: Traveler's troubles, N.H. Profiles; The 'News' goes to college, AFL-CIO News; co-auth, Full measure of devotion: the ordeal of Hugh Sloan, 1864, Mo. Hist. Rev, 1/66. Address: Box 156, R.F.D. 1, River Falls, Wis. 54022.

DARRAH, PROF. LAWRENCE B(RYCE), b. Fairview, W.Va, Dec. 4, 15; m. 39; c. 3. MARKETING. B.S, West Virginia, 39; M.S, Pa. State Col, 41; Ph.D, Cornell, 43. Instr, STATE UNIV. N.Y, COL. AGR, CORNELL, 43-44, asst. prof, 44-46, assoc. prof. MKT, 46-51, PROF, 51- Res. specialist, U.S. Dept. Agr, 49, 50, 51; vis. prof, col. agr, Philippines, 57-58. Consult, Mkt. Res. Corp. Am, 56-57; Arthur D. Little, Inc, 62- Mem, Int. Conf. Agr. Economists. Outstanding prof. award, State Univ. N.Y. Col. Agr, Cornell. Farm Econ. Asn; Mkt. Asn. Agricultural economics; poultry and livestock marketing; farm management. Publ: Marketing farm products in the Philippines; co-auth, Introduction to livestock production, Freeman, 62, rev. ed, 66; auth, Food marketing, Ronald, 67. Address: Dept. of Agricultural Economics, State University of New York College of Agriculture, Cornell University, Ithaca, N.Y. 14850.

DARROW, JOSEPH LEE, b. Davenport, Iowa, Jan. 2, 26; m. 51; c. 4. INDUSTRIAL PSYCHOLOGY. A.B, Southern California, 50, M.A, 53. Asst. proj. dir. bombardier training, Psychol. Serv, Inc, 51-53; statist. analyst mfr. control, Douglas Aircraft Co, Inc, 54-55; asst. soc. scientist, air defense training, Rand Corp, 56-57; HUMAN FACTORS SCIENTIST, SYST. DEVELOP. CORP, 57- U.S.N.R, 43-45. Psychol. Asn. Aviation psychology; man-machine systems; applications of high speed digital computers in men-machine systems; computer operator system training in satellite control and operations. Address: P.O. Box 25961, Los Angeles, Calif. 90025.

DARSKY, PROF. BENJAMIN J(OSEPH), b. Canton, Ohio, Mar. 5, 22. SOCIOLOGY. B.A, Youngstown, 48; M.A, Washington State, 49; Ph.D, Michigan, 58. Asst. study dir, inst. soc. res, MICHIGAN, 50-52, RES. ASSOC, BUR. PUB. HEALTH ECON, 52-, PROF. MED. CARE, SCH. PUB. HEALTH, 64-, assoc. prof, 59-64. Consult, U.S. Senate Cmt. Aging; Prescription Serv, Inc, Can. U.S.M.C, 42-45. Sociol. Asn; Soc. Study Social Probs; Pub. Health Asn. Medical sociology; survey research methodology; hospital and physicians pre-payment insurance program; organization of health services for the aged; social organization of health and medical care. Publ: Physicians services under voluntary health insurance, Harvard, 58. Address: 1111 Olden Rd, Ann Arbor, Mich. 48103.

DART, DR. JOHN OLNEY, b. West Palm Beach, Fla, May 19, 21; m. 47; c. 3. GEOGRAPHY. B.A, Cent. Wash. Col. Ed, 46; M.A, Washington (Seattle), 48, Ph.D, 53; California, Los Angeles, 49. From instr. to assoc. prof. geog, PORTLAND STATE COL, 50-59, prof, 59-64, DIR. INT. PROGS, 64- U.S.A, 42-45. Asn. Am. Geog. Conservation of Pacific Northwest resources. Address: Office of International Programs, Portland State College, Portland, Ore. 97207.

DARTER, DR. VERNON WEBSTER, b. Hiltons, Va, Feb. 6, 04; m. 30. PUBLIC ADMINISTRATION, ECONOMICS. A.B, King Col, 26; B.S, Tennessee, 30; M.P.A, Harvard, 52, D.P.A, 55. Prin, elem. sch, Tenn, 26-27; teacher, high sch, 27-28; dir. milk sanit, Bur. Health, Tenn, 30-35; asst. county agent, Johnson County, Univ. Tennessee, 35-42, county agent, 42-43; dep. dir. food & agr, Off. Mil, 46-49; chief agr. prod. & dist. br, Off. High Cmnr, 49-51; east. rep, Fund. Adult Ed, 53-54; prof. & leader, exten. training & studies dept, COL. AGR, TENNESSEE, 54-57, DIR. AGR. EXTEN. SERV, 57- Mem. adv. bd, Nat. Agr. Exten. Center Adv. Study, 59-63, cmt. in-serv. training, exten. cmt. orgn. & policy, 59-64, rep. south. region, cmt. in-serv. training rural clergy, 62; Nat. Agr. Policy Cmt, 63. Agr. Econ. Asn. Agricultural economics. Address: Agricultural Extension Service, University of Tennessee College of Agriculture, Knoxville, Tenn. 37916.

DASGUPTA, DR. SATADAL, b. Calcutta, India, Sept. 25, 37; m. 65. ANTHROPOLOGY, SOCIOLOGY. B.Sc, Calcutta, 56, M.Sc, 58, scholar, 59-61, D.Phil.(anthrop), 64. Res. officer anthrop, socio-agro-econ. orgn, dept. agr, Govt. West Bengal, India, 61-62; lectr. rural sociol, Kalyani Agr. Univ, India, 62-65; fel. ANTHROP. soc. sci. res. center, MISS. STATE, 65-66, ASST. PROF, 66- Rural Sociol. Soc; Sociol. Asn; Anthrop. Asn. Cultural change; rural sociology; sociology of communities; social stratification. Publ: Co-auth, Eadpur, a West Bengal village, Dept. Agr, Govt. West Bengal, India, 63; auth, Communication and innovation in Indian villages, Soc. Forces, 65; auth, Relative predictability of five indices of adoption of recommended farm practices, Sociologia Ruralis, 68. Address: Dept. of Sociology & Anthropology, Mississippi State University, State College, Miss. 39762.

DASHIELL, DR. JOHN F(REDERICK), Psychol, see 11th ed, Phys. & Biol. Vols.

DASSEL, VIRGIL H(OMER), b. Elberfeld, Ind, July 10, 99. BUSINESS ADMINISTRATION. A.B, Ohio, 24; A.M, Ohio State, 29. Prof. bus. admin. & econ, The Citadel, 24-28; bus. admin, Wittenberg Col, 29-36; prof. econ. & asst. to pres. in charge finance, CAPITAL UNIV. 36-61. V.PRES. FINANCIAL AFFAIRS & TREAS. BD. REGENTS, 61- Sr. tax exam. & statistician. sales tax sect, State Tax Cmn, Ohio, 36-37; dept. store controller. 37-40; res. dir, Citizens Res, Inc, 42-51, exec. secy. 51-58. dir. 63-67. life dir, 67-; treas, Evangel. Lutheran Theol. Sem, 58- Trustee, Columbus Pub. Library, 62- Econ. Asn; Statist. Asn; Mkt. Asn; Am. Acct. Asn; Nat. Asn. Acct; Govt. Res.Asn. Business taxation; municipal and county government and its operation. Address: Board of Regents, Capital University, Columbus, Ohio 43209.

DASTON, PROF. PAUL G, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

DATEL, DR. WILLIAM E(MIL), b. Bonilla, S.Dak, Jan. 24, 29; m. 54; c. 2. PSYCHOLOGY. A.B, Minnesota, 49; M.A, California, Los Angeles, 52, Ph.D. (psychol), 54. U.S. DEPT. ARMY, 52-, clin. psychol. intern, Letterman Army Hosp, 52-53, chief clin. psychologist, Ment. Hyg. Consultation Serv, Ft. Bliss, Tex, 54-57, clin. psychologist, Second Gen. Hosp, Europe, 57-60, chief clin. psychologist, Ment. Hyg. Consultation Serv, Ft. Ord, 60-64, chief dept. clin. & soc. psychol, Walter Reed Army Inst. Res, Wash, D.C, 64-66, CHIEF PSYCHOL. SERV, MENT. HYG. CONSULTATION DIV, FT. ORD, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. Psychol. Asn. Mental health consultation; child guidance; measurement of affect. Publ: Co-auth, Reliability of Rorschach interpretations, J. Proj. Tech, 55, A method for extending Army mental hygiene consultation, Mil. Med, 66 and Affect levels in a company of basic trainees, Psychol. Reports, 66. Address: 122 Tide Ave, Monterey, Calif. 93940.

DATOR, DR. JAMES ALLEN, b. Newark, N.Y, Aug. 15, 33; m. 54; c. 3. POLITICAL SCIENCE. A.B, Stetson, 54; Woodrow Wilson fel, Pennsylvania, 54-55, M.A, 55; Danforth fel, 54-59; Ph.D.(polit. sci), American Univ, 59; Va. Theol. Sem. 57-58; Yale, 59-60. Lectr. POLIT. SCI, Maryland, 56-57; American Univ, 57-59; Rikkyo Daigaku, Tokyo, 60-66; ASSOC. PROF. VA. POLYTECH, 66- Lectr, Training Inst, Japanese For. Ministry, 63-66; Am. Coun. Learned Socs. res. grant, 64-65. Am. Polit. Sci. Asn; Asn. Asian Studies; World Future Soc; Japanese Polit. Sci. Asn. Comparative political behavior, especially Japan; political futuristics, changes in socio-political systems made desirable or necessary by technological developments. Publ: Builders of the third civilization, Univ. Washington, 68; The Protestant ethic in Japan, J. Develop. Areas, 10/66; Life history and attitudes of Japanese high court judges, West. Polit. Quart, 6/67. Address: Dept. of Political Science, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

DATTA, DR. LOIS-ELLIN GREENE, b. Paterson, N.J, June 12, 32; m. 52; c. 2. EXPERIMENTAL & COMPARATIVE PSYCHOLOGY. B.A, West Virginia, 52, M.A, 55; M.A, Bryn Mawr Col, 57, Nat. Insts. Health fel, 58-60, Ph.D.(comp. psychol), 61. Asst. psychol, Bryn Mawr Col, 55-57, gen. & exp. psychol, 60-61; assoc. Courtney & Co, 57-58; res. psychologist, missile & space vehicle dept, Gen. Elec. Co, Valley Forge, 61-63, NAT. INST. MENT. HEALTH, 63-68, COORDINATOR, HEAD START EVAL, 68- Psychol. Asn; Statist. Asn. Research methodology; educational research; personality evaluation. Publ: Maze-learning in the earthworm, Am. J. Psychol, 63; Family religious background and early scientific creativity, Am. Sociol. Rev, 67. Address: 8514 Whittier Blvd, Bethesda, Md. 20034.

DAUER, DR. ERNST A(UGUST), b. Helena, Ark, Feb. 25, 06; m. 35; c. 2. FINANCE. B.S, Northwestern, 29, M.B.A, 30, Ph.D, 42; Am-German Exchange scholar, Handels-Hochsch. Mannheim, 30-31; American Univ, 37-38. Instr. econ. & finance, col. commerce, Northwestern, 31-37; economist, Fed. Deposit Ins. Corp, 37-48; DIR. CONSUMER CREDIT STUDIES, HOUSEHOLD FINANCE CORP, 48- Lectr, Northwestern, 48- Mem. ed. cmt, Nat. Consumer Finance Asn, 54-61, chmn, 56-59; ed. cmt, Chamber Commerce of U.S, 67-, trustee, Ill. Coun. Econ. Ed, v.pres, 68- U.S.N.R, 43-46, Lt. Comdr. Econ. Asn; Statist. Asn; Finance Asn.(v.pres, 52, dir, 66-67); Nat. Asn. Bus. Econ. Economics of consumer credit; operations of consumer instalment credit institutions. Publ: Comparative operating experience of consumer instalment financing agencies and commercial banks; co-auth, 100 problems in corporation finance & American enterprise: the next ten years, Macmillan, 61. Address: Household Finance Corp, 3200 Prudential Plaza, Chicago, Ill. 60601.

DAUER, PROF. MANNING J(ULIAN), JR, b. Wilmington, N.C, Aug. 12, 09. POLITICAL SCIENCE. A.B, Florida, 30, A.M, 31; fel, Illinois, 31-32, Ph.D, 33. Instr. HIST. & POLIT. SCI, FLORIDA, 33-34, asst. prof, 34-35; assoc. prof, 41-46, PROF, 46-, CHMN. DEPT. POLIT. SCI, 50-, DIR. DIV. SOC. SCI, 62- Managing ed, J. Polit, 39-41, 46- U.S.A.A.F, 42-46, Lt. Col. Polit. Sci. Asn; Hist. Asn. Basis of the support of John Adams in the Federalist Party; Florida government organization and administration; United States history, politics and political theory: reapportionment of Florida legislature. Publ: Adams Federalists. Address: Dept. of Political Science, University of Florida, Gainesville, Fla. 32601.

DAUGHERTY, PROF. CARROLL R(OOP), b. Annville, Pa, Dec. 3, 00. LABOR ECONOMICS. A.B, Lebanon Valley Col, 21; A.M, Pennsylvania, 24, Ph.D, 27. Instr. geog, Wharton Sch, Pennsylvania, 25-28; prof. econ, Alabama, 28-31; Pittsburgh, 31-40, res. economist, bur. bus. res, 34-35; prof. econ. & chmn. dept, Hunter Col, 40-46; PROF. LABOR RELS, NORTHWESTERN, 46-, CHMN. DEPT, 48- Prin. economist, U.S. Bur. Labor Statist, 36, chief economist, wage & hour div, 38-40; dir, War Labor Bd, 42-45; U.S. Dept. State, N.Z, 45-46. Consult, Nat. Resources Planning Bd, 40-42. Ed, Soc. Sci. Surv, 42. Mem. minimum wage bd, State Dept. Labor, Pa, 38; chmn, President's Steel-Labor Fact Finding Bd, 49; President's R.R. Emergency Bds, 51, 52. Econ. Asn; Economet. Soc; Indust. Rels. Res. Asn; Arbit. Asn; Acad. Arbit. Labor problems in American industry; economic principles and problems; economics of iron and steel industry. Address: Dept. of Labor Relations, Northwestern University, Evanston, Ill. 60201.

DAUGHERTY, PROF. RICHARD D(EO), b. Aberdeen, Wash, Mar. 31, 22; m. 45; c. 3. ANTHROPOLOGY. B.A, Washington (Seattle), 46, Ph.D.(anthrop), 54. Acting part time instr. ANTHROP, Washington (Seattle), 49; instr, WASHINGTON STATE, 50-54, asst. prof, 54-59, assoc. prof, 59-63, PROF, 63- Asst. ed, Am. Antiquity, 54-59, 61-66. Soc. Am. Archaeol. rep, Cmt. Recovery of Archaeol. Remains, 63-; mem. President's Adv. Coun. Hist. Preservation, 67-69. U.S.N.A.F, 43-46. AAAS; Anthrop. Asn; Soc. Archaeol. Archaeological research in the Pacific Northwest, Egypt, Sudan. Publ: Archaeology of the Lind Coulee site, Washington, Proc. Am. Philos. Soc; Early man in the Columbia Intermontane Province, Anthrop. Papers; Descriptive archaeology of geochronology of the Three Springs Bar Site, Washington State Univ, 67. Address: 1403 Wheatland Dr, Pullman, Wash. 99163.

DAUGHERTY, WILLIAM E(DWARD), b. Lithopolis, Ohio, Feb. 10, 09; m. 41; c. 2. POLITICAL SCIENCE. B.A, Ohio State, 31, M.A, 36; Fletcher Sch. Law & Diplomacy, 37-39; Colorado, 42-43; Hopkins, 48-49. Instr. polit. sci, Amherst Col, 39-41; orgns. analyst, U.S. Dept. Justice, 41-42; lectr. polit. sci, West Virginia, 46; prof. govt. & dir. inst. world affairs, Omaha, 46-48; opers. analyst, opers. res. off, Hopkins, 49-61; Res. Anal. Corp, McLean, 61-67; RES. SCIENTIST, CENTER RES. SOC. SYSTS, AMERICAN UNIV, 68- U.S.N, 42-43; U.S.M.C, 43-46, Capt. Polit. Sci. Asn; Soc. Int. Law. Information policy; public opinion and psychological warfare; Far East diplomatic relations. Publ: Civil affairs in U.S. Armed Forces: 1775-1965, 65; Psychological warfare, Int. Encyclop. Soc. Sci, 68. Address: 11925 Oden Court, Rockville, Md. 20852.

DAUTEN, PROF. CARL A(NTON), b. St. Louis, Mo, June 2, 13; m. 42; c. 3. BUSINESS FINANCE. A.B, Washington (St. Louis), 36, A.M, 39, Ph.D, 44. Prof. bus. admin, Shurtleff Col, 40-44; econ, Mo. Valley Col, 44-45; asst. prof. statist, Arkansas, 45; from assoc. prof. to PROF. FINANCE & BANKING, WASHINGTON (ST. LOUIS), 45-, V.CHANCELLOR & ASSOC. PROVOST, 62-, dir. doctoral prog, grad. sch. bus. admin, 57-62. Econ. Asn; Finance Asn. Business fluctuations; consumer credit. Publ: Business cycles and forecasting; Principles of finance; Consumer finance companies in a dynamic economy. Address: School of Business & Public Administration, Washington University, St. Louis, Mo. 63130.

DAUTEN, PROF. PAUL M(ARTIN), JR, b. Wentzville, Mo, May 13, 15; m. 47; c. 2. MANAGEMENT, ECONOMICS. B.A, St. Louis, 46; Ph.D.(econ), Washington (St. Louis), 54. Prof. econ. & chmn. dept. econ. & bus. admin, Mo. Valley Col, 49-50; assoc. prof. commerce, Fla. State, 50-51; exec. asst, Olin Industs, Inc, 51-54; PROF. MGT, ILLINOIS, URBANA, 54- Dir, Tec-Search, Inc, 59-66, bus. consult, 59- Ed-in-chief, J. Acad. Mgt, 57-60. U.S.A, 41-45. Soc. Adv. Mgt; Inst. Mgt. Sci; fel. Acad. Mgt; Econ. Asn; Mgt. Asn. Business forecasting; human relations; management theory; business organization & policy; quantitative techniques; systems theory. Publ: Business forecasting and its functional role; auth. & ed, Current issues and emerging concepts in management, Houghton, 62. Address: 917 Lincolnshire Dr, Champaign, Ill. 61820.

DAVAN, DR. CLARENCE FLOYD, JR, b. Danville, Ill, Jan. 13, 31; m. 52; c. 2. AGRICULTURAL ECONOMICS. B.S, Purdue, 52, M.S, 53, Ph.D, 60. Inspector auto parts, Gen. Motors Corp, 48; instr. agron, Purdue, 51-53, agr. econ, 57-59; asst. county agent, Fed. Exten. Serv, U.S. Dept. Agr, 56-57, agr. economist, econ. res. serv, 59-63; MGR. MKT. RES. & DEVELOP, INT. MINERALS & CHEM. CORP, 63- Consult. mem, President's Nat. Adv. Cmn. Food & Fiber, 66-67. Mem, Int. Superphosphate Adv. Cmn, 66-; statist. adv. cmt, UN Food & Agr. Orgn, 66-; Gov. Export Cmn, Ill, 66- U.S.N, 52-56, Res, 56-, Comdr. Agr. Econ. Asn; Chem. Soc. International agricultural policy; research methodology in marketing. Publ: Agricultural characteristics and fertilizer practices in Coche-La Poudre area, Colorado, Colo. State, 63; The international food situation: the availability of cropland, U.S. Govt. Printing Off, 67; Optimum resource combinations by worldwide farming and related business, U.S. Farm Found, 68. Address: 2223 Robincrest Lane, Glenview, Ill. 60025.

DaVAULT, PROF. JAMES W(ILLIAM), b. Marble Hill, Mo, Mar. 17, 00; m. 38; c. 1. ECONOMICS. B.S, Missouri, 28; M.S, Columbia, 32, Ph.D, 39. Asst. dir. downtown div, Pittsburgh, 31-33; instr. eve. classes, Columbia, 33-35; prof. econ, John Marshall Col, 35-39; instr. finance, Bentley Sch. Acct. & Finance, Mass, 39-41; mem. staff, Patterson, Teele & Dennis, Cert. Pub. Accts, 41-42; lectr. acct, La. State, 42; asst. prof. econ. & dir. acct. courses, Rochester, 42-47; PROF. ACCT, FLORIDA, 47- Dist. acct, Off. Price Admin, 43-47. Am. Acct. Asn. Accounting for bank and farm costs; agricultural economics. Address: Dept. of Accounting, University of Florida, Gainesville, Fla. 32603.

DAVENPORT, DR. BEVERLY FEST, b. San Francisco, Calif, Apr. 27, 22. CLINICAL PSYCHOLOGY. B.A, California, Los Angeles, 45; Ph.D, Southern California, 52. Trainee clin. psychol, Los Angeles Regional Off, Vet. Admin, 47-51; sr. psychologist, Pac. State Hosp, 52-54; clin. psychologist, Vet. Admin. Hosp, American Lake, Wash, 54-58, Vet. Admin. Ment. Hyg. Clin, San Diego, Calif, 58-63; CLIN. PSYCHOLOGIST, 63- Communication; social interaction; group therapy. Publ: Semantic validity of T.A.T. interpretations, J. Consult. Psychol. Address: 3316 Fourth Ave, San Diego, Calif. 92103.

DAVENPORT, DR. D(ONALD) GENE, b. Hays, Kans, Aug. 27, 31; m. 55; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Baker, 53; M.A, Minnesota, 57, Ph.D. (psychol, biostatist), 60. Res. trainee PSYCHOL, Minneapolis Vet. Admin. Hosp, 58-59; res. fel, Minnesota, 59-60; asst. prof, ST. LOUIS, 60-65, ASSOC. PROF, 65- Nat. Inst. Ment. Health grant, St. Louis, 61-62; summer fel, Minnesota, 66. Ord.C, U.S.A, 53-55. AAAS; Psychol. Asn. Experimental psychology; learning and motivation; experimental psychodynamics; classical and operant conditioning; verbal learning. Publ: Co-auth, Motivational artifact in standard food deprivation schedules, J. Comp. & Physiol. Psychol, 64, Double intermittent reward scheduling and secondary reinforcer strength, 66 & Resistance to extinction as a function of nonresponse incentive shift, 68, Psychonomic Sci. Address: Dept. of Psychology, St. Louis University, 221 N. Grand, St. Louis, Mo. 63103.

DAVENPORT, DR. DONALD H(ILLS), b. Berwick, Pa, Mar. 6, 96; m. 21; c. 2. ECONOMICS. Ph.D, Columbia, 26. Assoc. prof. bus. statist, grad. sch. bus. admin, Harvard, 29-40; chief economist, U.S. Bur. Labor Statist, 40-45; dep. cmnr, State Dept. Commerce, N.Y, 45-55, 59-66; prof. bus. admin, Syracuse, 55-62; EXEC. SECY, N.Y. SCI. & TECH. FOUND, 66- U.S.A, 17-19, Sgt. Econ. Asn; Statist. Asn; Mgt. Asn. Public finance; insurance; business statistics. Publ: Cost of government in New York State; Cooperative banks of Massachusetts; Index to business indices. Address: New York State Science & Technology Foundation, 112 State St, Room 612, Albany, N.Y. 12207.

DAVENPORT, PROF. JAMES L, b. Maumee, Ark, June 22, 22; m. 60. AGRICULTURAL ECONOMICS. B.S.A, Arkansas, 50, M.S, 54. Instr. AGR. ECON, ARKANSAS STATE, 54-57, asst. prof, 57-60, ASSOC. PROF, 60-U.S.N.R, 42-46, 50-52. Land economics; agricultural policy. Address: Dept. of Agricultural Economics, Box 868, Arkansas State University, State University, Ark. 72467.

DAVENPORT, DR. JOHN SCOTT, b. Decatur, Ill, Aug. 12, 25; m. 48; c. 4. MASS COMMUNICATION, INDUSTRIAL MANAGEMENT. B.S, Illinois, Urbana, 46, M.S, 47; Indiana, 47-49; Ph.D.(labor econ, indust. mgt), Iowa, 52. Instr. journalism, Indiana, 47-49; Iowa, 49-51, asst. to dean, sch. journalism, 50-51; ed. & publisher, Bur. Valley Chief, Ill, 51-54; labor conciliator, State of Ill, 54-55; dir. res, A.B. Cord Co, Ohio, 55-58; ASST. TO CHMN. BD. & DIR. RES, E.W. SCRIPPS CO, 58- Lectr. Eng. Soc. Cincinnati, 56-57; Miami (Ohio), 64-65. Mem, nat. newspaper adv. cmt, Bur. Census, 60-; coun. newspaper res. & develop, Syracuse Univ, 67- U.S.M.C, 43-45. AAAS; Sociol. Asn; Statist. Asn; Inst. Indust. Eng; Indust. Rels. Res. Asn; Asn. Pub. Opinion Res. Industrial management; basic and applied research in behavioral aspects of mass communication and role of mass media; information theory and design; managerial-personnel roles and responsibilities in mass media. Publ: Newspaper circulation, W.C. Brown, 49; co-auth, Advertising readership and buying plans, 6/63 & Advertising theory and measures of perception, 12/63, J. Advert. Res. Address: E.W. Scripps Co, 1100 Central Trust Tower, Cincinnati, Ohio 45202.

DAVENPORT, DR. JOHN W(ARNER), b. Westfield, Mass, July 12, 31; m. 53; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Massachusetts, 52, M.S, 53; Ph.D, Iowa, 56. Asst. PSYCHOL, Iowa, 53-56; instr, Rutgers, 56-58; asst. prof, Amherst Col, 58-62; asst. dir. PRIMATE CENTER, WISCONSIN, 62-67, ASSOC. DIR, 68-, ASSOC. PROF. PSYCHOL, 65- AAAS; Psychol. Asn; Psychonomic Soc. Basic learning and motivation; behavior theory; psychological instrumentation; comparative psychology; developmental psychopharmacology; thyroid function. Publ: Interaction of magnitude and delay of reinforcement in spatial discrimination, J. Comp. & Physiol. Psychol; co-auth, Amsel frustration effect in monkeys, 11/65 & auth, Higher-order conditioning of fear, 1/66, Psychonomic Sci. Address: Primate Research Center, University of Wisconsin, Madison, Wis. 53705.

DAVENPORT, DR. ROBERT, b. Chicago, Ill, June 23, 07; m. 43; c. 2. ECONOMICS. B.S, American Univ, 49; Ph.D, Maryland, 60. Spec. asst. to adminstr, War Assets Admin, 46-47; housing proj. mgr, Nat. Capital Housing Authority, 49-52; sr. field rep, Housing & Home Finance Agency, 52-57; CONSULT. ECONOMIST, 57-; PRES, ROBERT DAVENPORT ASSOCS, INC, 64- Lectr, Maryland, 59-; sr. res. planner, Md-Nat. Capital Park & Planning Cmn, 60-61. Mem, Int. Fedn. Housing & Planning; UN Int. Roster Scientists & Tech. Experts. U.S.A, 42-46, 48, Capt. Econ. Asn; Royal Econ. Soc. Housing; urban renewal; fiscal policy; business cycles; economic

studies for city and regional planning and urban renewal. Publ: The economics of urban renewal, Univ. Maryland, 60; co-auth, Housing in Front Royal, Virginia. Address: 614 Third St. S.W, Washington, D.C. 20024.

DAVENPORT, DR. ROBERT HEYWOOD, b. Pawtucket, R.I, Apr. 3, 31; m. 56; c. 2. PSYCHOLOGY. A.B, Chicago, 51; A.B, California, Los Angeles, 56, M.A, 59, Ph.D.(psychol), 60. CONSULT. PSYCHOLOGIST, 60- Staff psychologist, student counseling center, California, Los Angeles, 65-67; vis. asst. prof, Southern California, 67- U.S.A.F, 51-53, Sgt. Psychol. Asn. Influence of personality on perceptual behavior; small group dynamics; psychodiagnostics; group and individual psychotherapy; clinical psychology. Publ: Co-auth, Further evidence for the interaction of drive and reward, Am. J. Psychol. Address: 9107 Wilshire Blvd, Beverly Hills, Calif. 90210.

DAVENPORT, PROF. WILLARD E, Mkt, see 10th ed, Soc. & Behav. Vols, deceased 63.

DAVENPORT, PROF. WILLIAM H(UNT), b. Upland, Calif, May 26, 22; m. 52. ANTHROPOLOGY. B.A, Hawaii, 52; Ph.D, Yale, 56. Asst. instr. ANTHROP, Yale, 55-56, instr, 56-58; res. assoc, Bishop Mus, Hawaii, 58-60; asst. prof, Yale, 60-63; assoc. prof, PENNSYLVANIA, 63-67, PROF, 67- U.S.A, 41-46. Fel. AAAS; fel. Anthrop. Asn. Comparative social structure and economics of primitive societies; theory in culture and personality; primitive and peasant cultures of Oceania and the Caribbean. Publ: Nonunilinear descent and descent groups, Am. Anthropologist; Jamaican fishing: a game theory analysis, Pub. Anthrop, Yale Univ; Jamaican family system, Soc. & Econ. Studies. Address: University Museum, University of Pennsylvania, Philadelphia, Pa. 19104.

DAVES, DR. WALTER F, b. Atlanta, Ga, Oct. 3, 35; m. 58; c. 3. EXPERIMENTAL & PHYSIOLOGICAL PSYCHOLOGY. A.B, Emory, 57, fel, 58, M.A, 59; fel, Duke, 59-60, Ph.D.(psychol), 63. Asst. prof. psychol, Kansas State, 63-65; with Lockheed-Ga. Co, 65-66; ASST. PROF. PSYCHOL, GA. STATE COL, 66- Nat. Inst. Ment. Health grant, 64-65. Human Factors Soc; Psychol. Asn; Psychonomic Soc. Sensory and perceptual processes; physiological psychology. Address: Dept. of Psychology, Georgia State College, Atlanta, Ga. 30303.

DAVEY, PROF. HAROLD W(ILLIAM), b. Syracuse, N.Y, Sept. 8, 15. INDUSTRIAL & LABOR RELATIONS. A.B, Syracuse, 36; A.M, Harvard, 38, Ph.D, 39. Instr. soc. sci, Ill. Inst. Tech, 39-42; hearing officer, Nat. War Labor Bd, 43-44, mem. pub. panel & arbitrator, 44-45; asst. prof. pub. affairs & regional studies, N.Y. Univ, 45-48; assoc. prof. indust. econ, IOWA STATE, 48-50, PROF. ECON, 50- Econ. Asn; Indust. Rels. Res. Asn. Labor relations legislation; trade union government; contemporary collective bargaining. Publ: Contemporary collective bargaining; Labor arbitration: a current appraisal, Indust. & Labor Rels. Rev. Address: 416 Oliver, Ames, Iowa 50010.

DAVID, DR. GILBERT, b. Camden, N.J, Sept. 12, 10; m. 39; c. 2. PSYCHOLOGY. B.S, Haverford Col, 32; A.M, Pennsylvania, 37, Harrison fel, 37-39, Ph.D.(psychol), 48. From psychologist to chief psychologist, Jewish Voc. Serv, Chicago, Ill, 39-42; practicing consult. personnel, 46-49; consult, inst. soc. res, Michigan, 49-50; dir. personnel res, Harwood Mfg. Co, Va, 50-51; training consult, Prudential Ins. Co, N.J, 51-53; v.pres. & gen. mgr, D.E. McNicol Pottery Co, 53-56; INDUST. CONSULT, 56- Mem. faculty, New Sch. Soc. Res, 56- U.S.A, 42-46. Psychol. Asn. Personnel selection techniques; group dynamics in industry; application of social psychological principles to personnel problems. Address: 15 Washington Place, New York, N.Y. 10003.

DAVID, DR. HENRY P, b. Germany, May 28, 23; nat; m. 53; c. 2. PSYCHOLOGY. B.A, Cincinnati, 48, M.A, 49; Ph.D.(psychol), Columbia, 51. Instr. psychol, sch. med, Pittsburgh, 52-55; asst. prof. & head div, Lafayette Clin, Wayne State, 55-56; psychol. consult, N.J. State Dept. Insts. & Agencies, 56-63; ASSOC. DIR. World Fedn. Ment. Health, Switz, 63-65; INT. RES. INST, AM. INSTS. RES, 65- Lectr, Rutgers, 58-63; N.J. Col. Med. & Dent, 61-63. Consult, World Fedn. Ment. Health; St. Elizabeths Hosp. & Jewish Found. Retarded Children, 65- U.S.A, 43-46. Psychol. Asn; Soc. Proj. Tech; Int. Coun. Psychol.(pres, 67-69); Int. Asn. Appl. Psychol. International mental health; personality evaluation; training. Publ: International resources in clinical psychology, 64 & International trends in mental health, 66, McGraw; co-auth, Sourcebook for training in clinical psychology, Springer, 64. Address: International Research Institute, American Institutes for Research, 8555 16th St, Silver Spring, Md. 20910.

DAVID, LILY MARY, b. Chicago, Ill, June 22, 14. ECONOMICS. Ph.B, Chicago, 35. ECONOMIST, wage & hour div, U.S. DEPT. LABOR, 39-42, BUR. LABOR STATIST, 42- Rockefeller Pub. Serv. award, 59. Indust. Rels. Res. Asn. Wage structure and trends; strike statistics; current wage and collective bargaining developments; wage-price relationships. Publ: Major collective bargaining settlements, 1965, 4/66, co-auth, Workers' wages in construction and maintenance, 1/68 & Pattern of wage and benefit changes in manufacturing, 2/68, Monthly Labor Rev. Address: 4647 Third St. S, Arlington, Va. 22204.

DAVID, PROF. MARTIN H(EIDENHAIN), b. Heemstede, Netherlands, Jan. 21, 35; nat; m. 57; c. 3. ECONOMICS. A.B, Swarthmore Col, 55; M.A, Michigan, 57; Ford Found. fel, 58-59, Ph.D, 60. Study dir. econ. behav. prog, surv. res. center, Michigan, 59-61; asst. prof. ECON, WISCONSIN, 61-64, assoc. prof, 64-67, PROF, 67- Nat. Sci. Found. sr. fel, 67-68. Fiscal economist, off. tax. anal, U.S. Treas, 61-62, consult, 62-66; Soc. Security Admin, 66- Econ. Asn; Statist. Asn; Econometr. Soc. Public finance; consumer economics; income distribution and income maintenance. Publ: Family composition and consumption; Income and welfare in the United States; Alternative approaches to capital gains taxation, Brookings, 68. Address: Dept. of Economics, 6422 Social Science, University of Wisconsin, Madison, Wis. 53706.

DAVID, MILTON LEO, b. Toledo, Wash, Sept. 24, 38; m. 60; c. 2. AGRICULTURAL ECONOMICS. B.S, Washington State, 60; M.S, Arizona, 62; Kansas State, 62-63. Asst. agr. econ, Washington State, 59-60; Arizona, 60-61; economist, Agr. Res. Div, DUNLAP & ASSOCS, INC, 61-63, MGR, ECONOMET. & OPERS. RES, 63-, SECY, 65-, asst. secy, 63-64, asst. secy-treas, 64-65. Agr. Econ. Asn. Agribusiness; production economics; econometrics and operations research techniques; transportation economics and preinvestment studies of livestock, feed, fertilizer, food processing industries and land and water development ventures. Publ: Mathematical programming—an operational tool for farm decision maker, Int. Bus. Mach. Corp, 63; Systems analysis—an operational tool for the farm decision maker, Am. Soc. Agr. Consult, 66; co-auth, Determining the bank's cost of offering agricultural data processing services, Am. Bankers Asn, 66. Address: Agricultural Research Division, Dunlap & Associates, Inc, P.O. Box 727, Manhattan, Kans. 66502.

DAVID, PROF. PAUL T(HEODORE), b. Brockton, Mass, Aug. 12, 06; m. 35. ECONOMICS, POLITICAL SCIENCE. A.B, Antioch Col, 28; A.M, Brown, 30, Ph.D, 33; res. fel, Brookings Inst, 31-32. Asst. economist utilities invest, interstate & for. commerce cmt, U.S. House Rep, 32-33; admin. asst. & economist, Tenn. Valley Authority, 33-36; mem. staff, President's Cmt. Admin. Mgt, 36; secy. & asst. dir. studies, U.S. Adv. Cmt. Ed, 36-39; assoc. dir. & chief economist, Am. Youth Cmn, Am. Coun. Ed, 39-42; chief fiscal analyst, U.S. Bur. Budget, 42-46; alternate U.S. rep. coun, Int. Civil Aviation Orgn, Can, 46-50; sr. staff mem, Brookings Inst, 50-60, dir. govt. studies, 55-58, PROF. GOVT. & FOR. AFFAIRS, VIRGINIA, 60-, chmn. dept, 64-66. Fel, Center Adv. Study Behav. Sci, 59-60; summers, faculty mem, Salzburg Seminar Am. Studies, 63, guest scholar, Brookings Inst, 65. Consult, Anal. Serv, Inc, Va, 66-67. Econ. Asn; Am. Polit. Sci. Asn; Soc. Pub. Admin: Int. Polit. Sci. Asn. Political parties, public administration; processes of change. Publ: Co-auth, Politics of national party conventions & Devaluation of the urban and suburban vote; auth, Analytical approaches to the study of change, Pub. Admin. Rev, 9/66. Address: R.F.D. 3 Box 282-J, Charlottesville, Va. 22901.

DAVID, PROF. WILLIAM M(ORRIS), JR, b. Philadelphia, Pa, Feb. 28, 19; m. 42; c. 3. POLITICAL SCIENCE. A.B, Dartmouth Col, 41; summer, Harvard, 41; M.A, Columbia, 42, Ph.D, 62. Instr. int. rels, Denver, 48-50; asst. prof. POLIT. SCI. WEST. MD. COL, 52-67, PROF, 67-, CHMN. DEPT, 65-, dean men, 52-63. Fulbright summer res. grant, India, 64; Ford Found. res. grant, India, 64-65. U.S.A.F, 43-46, Res, 46-, Lt. Col. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Asn. Asian Studies. Foreign policy formulation; national movements and nationalism; international organization and politics; political institutions of India. Publ: The development of United States policy toward the Baltic States, 1917-1922; co-auth, Lecture outlines on Indian civilization, Gettysburg Col, 66; An appraisal of democracy in India, In: Dilemmas of democratic politics in India, Karnatak Univ, India, 65. Address: Dept. of History & Political Science, Western Maryland College, Westminster, Md. 21157.

DAVIDOFF, DR. MELVIN D, b. Salem, Mass, Mar. 31, 19; m. 44; c. 2. PSYCHOLOGY. B.S, Purdue, 39, M.S, 41, fel. & Ph.D, 48. Counsr. & test technician, Purdue, 46-48; exam. test anal, U.S. Civil Serv. Cmn, 48-49, res. psychologist, 49-52, head res. & anal. unit, 52-56; chief psychol. sect. geront. br, Nat. Inst. Health, 56-60; head prfnl. & sci. selection methods unit, U.S. CIVIL SERV. CMN, 60-62, PROG. DIR, PERSONNEL MEASUREMENT RES. & DEVELOP. CENTER, 62- Lectr, American Univ, 52-54, prof. lectr, 56- Consult, Civil Serv. Bur. P.I, 56. U.S.N.R, 42-46, Comdr. Psychol. Asn; Statist. Asn; Psychomet. Soc; Geront. Soc. Psychometric theory and methods; test and measurement theory; personnel selection: psychology of aging. Address: Personnel Measurement Research & Development Center, U.S. Civil Service Commission, Washington, D.C. 20415.

DAVIDON, DR. ROBERT S, b. Pittsburgh, Pa, Mar. 26, 19; m. 42; c. 2. PSYCHOLOGY. A.B, Illinois, 40; M.A, Pennsylvania, 46, Ph.D.(psychol), 51. Asst. instr, Pennsylvania, 47-50; asst. prof. PSYCHOL, Champlain Col, 50-53; from asst. prof. to ASSOC. PROF, BRYN MAWR COL, 53- Ford Fund Adv. Ed. fel, 53; Am. Philos. Soc. res. grant, 55; res. fel, Med. Res. Coun, Eng, 59-60; prin. investr, res. contract, off. sci. res, U.S. Dept. Air Force, 59-65; U.S. Pub. Health Serv. res. fel, Univ. Aix-Marseille, 66-67. U.S.A, 41-46, Res, 46-, Lt. Col. Psychol. Asn; Psychonomic Soc. Visual and tactile space perception; concepts; psychophysical scaling. Publ: Effects of symbols, shift and manipulation upon the number of concepts attained, J. Exp. Psychol; Relevance and category scales of judgment, Brit. J. Psychol, 62; Cross-modal judgments of length, Am. J. Psychol, 66. Address: Dept. of Psychology, Bryn Mawr College, Bryn Mawr, Pa. 19010.

DAVIDS, PROF. ANTHONY, b. Providence, R.I, Aug. 28, 23; m. 49. PSYCHOLOGY. A.B, Brown, 49; A.M, Harvard, 51, U.S. Pub. Health Serv. fel, 51-52, Ph.D.(clin. psychol), 53. Asst. soc. rels, Harvard, 52-53, res. assoc, 53-55, lectr. clin. psychol, 54-55; asst. prof. PSYCHOL, BROWN, 55-57, assoc. prof, 57-63, PROF, 64-; DIR. PSYCHOL, EMMA PENDLETON BRADLEY HOSP, 65-, chief psychologist, 55-64. U.S. Pub. Health Serv. spec. res. fel, inst. personality assessment & res, California, Berkeley, 63-64. U.S.N.R, 43-46, Lt.(jg). Fel. AAAS; fel. Psychol. Asn; fel. Orthopsychiat. Asn; Psychosom. Soc; Psychonomic Soc; Soc. Res. Child Develop; Soc. Proj. Tech. Psychodiagnosis; experimental clinical psychology; child psychology. Publ: Alienation, social apperception and ego structure, J. Consult. Psychol; Comparison of three methods of personality assessment, J. Personality; Generality and consistency of relations between the alienation syndrome and cognitive processes, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, Brown University, Providence, R.I. 02912.

DAVIDS, PROF. LEWIS E(DMUND), b. New York, N.Y, Apr. 21, 17. BUSINESS ECONOMICS. B.S, N.Y. Univ, 41, M.B.A, 42, Ph.D, 49. Res. assoc, Inst. Int. Finance, 46-47; economist, Bankers Trust Co, N.Y, 48; asst. prof. finance, col. bus. admin, Drake, 49-51; prof. bus. admin, Agr. & Mech. Col, Tex, 51-59; econ. & bus. admin, Georgia, 59-61; ROBERT E. LEE HILL PROF. BANK MGT, MISSOURI, COLUMBIA, 61- Found. Econ. Ed. fels, 53-54; fel, Southwest. Grad. Sch. Banking, Southern Methodist, 58, lectr, 67; fels, grad. sch. banking, Wisconsin 66 & sch. mortgage banking, Northwestern, 67; lectr, Sch. Banking of South, La. State, 67. Sr. economist & chief, Off. Price Stabilization, 51. Hon. cert, Instituto Cheleno Admin. Racional

de Empressas, 59, Coun. Int. Progress Mgt, 60 & sch. mortgage banking, Northwestern, 67. Finance Asn; Acad. Polit. Sci; Econ. Asn; Real Estate & Urban Econ. Asn. Publ: Characteristics of founders of new businesses, Univ. Georgia & Small Bus. Admin, 63; Dictionary of insurance, Littlefield, rev. ed, 67; Money and banking casebook, Irwin, 66. Address: School of Business & Public Administration, University of Missouri, Columbia, Mo. 65201.

DAVIDSON, PROF. ARLIE B(ARBER), b. Cleveland, Ala, Sept. 4, 98; m. 24; c. 2. SOCIOLOGY. A.B, Birmingham-Southern Col, 22; B.D, Emory, 24; Yale, 29-34; summers, Carnegie grants, 47-49; LL.B, Jones Law Sch, 58. Mem. faculty, Auburn, 24-26; prof. relig, Huntingdon Col, 26-29; minister, Pilgrim Congregational Church, Conn, 29-37; Russell Church, 37-38; PROF. SOCIOL. & HEAD DEPT, HUNTINGDON COL, 38- Sociol. Asn; Nat. Coun. Family Rels. Home factors in juvenile delinquency. Publ: Guide for living today. Address: Dept. of Sociology, Huntingdon College, Montgomery, Ala. 36106.

DAVIDSON, DR. BURCHARD ROSSWELL, JR, b. Russiaville, Ind, Jan. 17, 21; m. 47; c. 3. POLITICAL SCIENCE. A.B, Indiana, 42, J.D, 49; M.S, Syracuse, 43; Illinois, 49-50. Asst. personnel dir, Trenton Plant, Monsanto Chem. Co, Mich, 51-53; attorney, Ind, 54-58; judge, Superior Court, State of Ind, 59-62; ASST. PROF. POLIT. SCI, INDIANA, 63- Mem. gen. bd, Nat. Coun. Churches, 62-64; nat. coun, Y.M.C.A, 62-66. U.S.N.R, 43-46, Lt. Comdr. Polit. Sci. Asn; Soc. Pub. Admin. Trial courts of inferior jurisdiction. Publ: Indiana city courts, Ind. State Bar Asn, 66. Address: Dept. of Political Science, Indiana University, 2300 S. Washington St, Kokomo, Ind. 46901.

DAVIDSON, DR. ELMER HAYES, b. Tyner, N.C, Nov. 15, 33; m. 57; c. 2. PSYCHOLOGY. B.A, Greensboro Col, 60; M.A, Hollins Col, 62; Ph.D.(exp. psychol), Pa. State, 65. Asst. PSYCHOL, Hollins Col, 60-61; Pa. State, 61-65; asst. prof, Tex. Tech. Col, 65-66; ASST. PROF. & CHMN. DEPT, OKLAHOMA CITY UNIV, 66- U.S.C.G, 52-56. Psychol. Asn. Learning. Publ: Brightness constancy under a gradient of illumination, Psychonomic Sci, 65; Presentation time and proactive interference in the short-term memory for consonant units of varying sizes, Pa. State Univ. & Off. Naval Res, 65. Address: Dept. of Psychology, Oklahoma City University, Oklahoma City, Okla. 73106.

DAVIDSON, DR. HELEN H, b. New York, N.Y, Feb. 27, 06; m. 27; c. 2. PSYCHOLOGY. B.S, Columbia, 26, M.A, 27, Ph.D.(ed. psychol), 42. Sch. psychologist, New York Bd. Ed, 36-38; ASSOC. PROF. ED, CITY COL. NEW YORK, 48- Psychol. Asn; Soc. Proj. Tech.(secy, 45-47, 55-59). Personality and cultural influences; Rorschach technique; perception of feelings. Publ: Co-auth, The Rorschach technique, Harcourt & Traits of school achievers from a deprived background, Assoc. Ed. Serv. Address: 90 La Salle St, New York, N.Y. 10027.

DAVIDSON, PROF. JACK RICHARD, b. Burlington, Wyo, Mar. 18, 30; m. 53; c. 5. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Wyoming, 53; M.S, Mont. State Col, 56; Ph.D, California, 60. Asst. AGR. ECON, Mont. State Col, 54-55; instr, Colorado State, 55-56; asst. specialist, California, 56-59; asst. prof, Montana State, 60-62, assoc. prof, 62-65, PROF, 65-66; HAWAII, 66-, sr. staff adv. & proj. leader, water resource res. center, 66-67. Nat. Acad. Sci-Nat. Res. Coun. res. assoc, pioneering res. group farm econ, econ. res. serv, U.S. Dept. Agr, 61-62. Agr. Econ. Asn. Production economics; farm management; agricultural credit; livestock marketing; vertical coordination of agricultural and nonagricultural stages of production. Publ: Ed. & co-auth, Transportation problems and policies in the trans-Missouri west, Univ. Nebraska, 67; co-auth, Tracing farmers reaction to uncertainty, J. Farm Econ, 8/63 & Direct marketing of Montana feeder cattle, Montana Agr. Exp. Sta. Bull, 8/65. Address: Dept. of Agricultural Economics, University of Hawaii, Honolulu, Hawaii 96822.

DAVIDSON, DEAN JAMES F(REDERIC), b. Newton, Kans, Oct. 4, 24; m. 49; c. 4. POLITICAL SCIENCE. B.A, Yale, 45; M.A, George Washington, 51; Ph.D.(polit. sci), Chicago, 54. Staff mem, Far East. Cmn, 48-50; cent. secretariat, Econ. Coop. Admin, 50-51; asst. prof. polit. sci, Tennessee, 54-58, assoc. prof, 58-62, prof. 62-64, asst. dean lib. arts, 59-63, assoc. dean, 63-64; DEAN FACULTY, CONCORD COL, 64- Fel. col. admin, center study higher ed, Michigan, 62-63. U.S.N.R, 43-46, Lt. Polit. Sci. Asn. Political theory; politics in literature; structure of higher education. Publ: Co-auth, Edmund Burke, the enlightenment, and the modern world. Univ. Detroit, 67; Edmund Burke and international law, Rev. Polit; Political science and political fiction, Am. Polit. Sci. Rev. Address: Concord College, Athens, W.Va. 24712.

DAVIDSON, JULIUS, b. New York, N.Y, Sept. 1, 97; m. 22; c. 2. ECONOMICS. A.B, Harvard, 19; Columbia, 19-20, 23, 29-30. Private practice pub. acct, 19-24; mem. mfg. bus, 24-36; finance officer, Works Progress Admin, 36-41; bus. specialist, Off. Price Admin, 41-46; bus. specialist, Off. Price Stabilization, 51-53; asst. dir. admin, Library of Cong, 46-51, chief fiscal serv, 53-64, asst. dir. financial mgt, 64-65; RETIRED. Econ. Asn; Statist. Asn; Soc. Adv. Mgt; Soc. Pub. Admin; Library Asn. Price economics; statistics; public finance and administration. Address: 4201 Cathedral Ave, N.W, Washington, D.C. 20016.

DAVIDSON, PROF. KENNETH SIMON, b. Springfield, Mass, Dec. 1, 24; m. 47; c. 2. PSYCHOLOGY. B.A, Yale, 48; M.A, Michigan, 49, Ph.D, 54. Psychologist. student health serv, ment. hyg. clin, Michigan, 51-54; supvry. clin. psychologist, Vet. Admin. Ment. Hosp, Marion, Ind, 55-56; res. asst. & asst. prof. PSYCHOL, Yale, 56-61; ASSOC. PROF, WAYNE STATE, 61- U.S.N.R, 43-46. Child development; clinical and educational psychology; personality theory; intellectual potential and effectiveness as related to anxiety; determinants of teacher effectiveness and training of elementary school teachers. Publ: Anxiety in elementary school children; Preparation of teachers: an unstudied problem in education. Address: Dept. of Psychology, Wayne State University, Detroit, Mich. 48202.

DAVIDSON, DR. MARIA, b. Zalozce, Poland, July 24, 11; U.S. citizen. DEMOGRAPHY, MATHEMATICAL STATISTICS. M.A, Washington (Seattle), 50; Ph.D.(sociol, math. statist), N.Y. Univ, 60. Res. asst. demog, bur. appl. soc. res, Columbia, 50-52; asst. statistician, Am. Heart Asn, 52-56; prog. analyst, Equitable Life Assurance Soc, 56-61; sr. res. scientist, Systs. Develop. Corp, 61-64; statistician, Nat. Heart Inst, 64-65; soc. analyst, U.S. Soc. Security Admin, 65-66; STATISTICIAN, U.S. BUR. CENSUS, 66- Pop. Reference Bur. fel, 55; vis. lectr, Hunter Col, 61-62. Sociol. Asn; Statist. Asn; Pop. Asn. Sociology; demography; child spacing; fertility. Publ: Predictions in fertility 6/61 & Social & economic characteristics of aged persons, 3/67, Eugenics Quart. Address: 300 M St. S.W, Apt. 607, Washington, D.C. 20024.

DAVIDSON, DR. MICHAEL L(OUGHRAN), b. Peru, Ind, July, 18, 38; m. 59; c. 3. PSYCHOLOGY. B.S, Purdue, 59; M.S, California, Berkeley, 62, Ph.D. (psychol), 66. Instr. PSYCHOL, California, Berkeley, 66; ASST. PROF, ROCHESTER, 66- AAAS; Soc. Res. Child Develop. Human cognition and cognitive development. Address: Dept. of Psychology, University of Rochester, Rochester, N.Y. 14627.

DAVIDSON, DR. PARK OLOF, b. Cardston, Alta, Sept. 28, 37; m. 61; c. 3. PSYCHOLOGY. B.A, Alberta, 58, M.A, 59; Ph.D.(psychol), Queen's (Ont), 62. Psychologist, attorney gen. dept, Govt. Alta, 58-60; res. assoc. psychiat, Queen's (Ont), 60-62; sr. psychologist, Prov. Guid. Clin, Edmonton, 62-64; asst. prof. PSYCHOL, CALGARY, 64-66, ASSOC. PROF, 66-, ASST. DEAN GRAD. STUDIES, 67- Res. consult, div. alcoholism, Govt. Alta, 65- Can. Psychol. Asn. Adult and child experimental psychopathology. Publ: Co-auth, N-1: Experimental studies of single cases, Van Nostrand, 68; Cortical inhibition, drive level and conditioning, J. Abnorm. Psychol, 66; Thumbsucking, In: Symptoms of psychopathology, Wiley, 68. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

DAVIDSON, PROF. PAUL, b. Brooklyn, N.Y, Oct. 23, 30; m. 52; c. 3. ECONOMICS. B.S, Brooklyn Col, 50; M.B.A, City Col. New York, 55, Ford Found. fel, 55-56; Ph.D.(econ), Pennsylvania, 59. Instr. physiol. chem, Pennsylvania, 51-52, econ, 55-58; asst. prof, Rutgers, 58-60; asst. dir. econ. div, Continental Oil Co, 60-61; asst. prof. econ. Pennsylvania, 61-66; PROF. ECON. & ASSOC. DIR. BUR. ECON. RES, RUTGERS, 66- Fulbright fel. & vis. lectr, Bristol, 64-65. U.S.A, 53-55. Am. Econ. Asn; Royal Econ. Soc. Publ: Theories of aggregate income distribution, Rutgers, 60; co-auth, Aggregate supply and demand analysis, Harper, 64; auth, Money, portfolio balance, capital accumulation, and economic growth, Econometrica, 4/68. Address: 18 Turner Court, Princeton, N.J. 08540.

DAVIDSON, DR. RALPH K(IRBY), b. Webster, S.Dak, May 13, 21; m. 40; c. 2. ECONOMICS. Rhodes scholar, Oxford, 48-51, B.A, 50, M.A, 54; M.A, Hopkins, 53, Soc. Sci. Res. Coun. fel, 53-54, Ph.D.(econ), 54. Asst. prof. econ, Purdue, 54-57, assoc. prof, 57-60, prof, 60-62; consult, Rockefeller Found, 62; vis. prof. develop. econ, Makerere Univ. Col, Uganda, 62-63; assoc. dir, HUMANITIES & SOC. SCI. DIV, ROCKEFELLER FOUND, 63-64, DEP. DIR, 64- Sig.C, U.S.A, 42-45. Econ. Asn; Economet. Soc; Royal Econ. Soc. Economic theory, particularly transportation and public utilities; government regulation of business; labor economics and relations; university development in underdeveloped countries. Publ: Price discrimination in the sale of gas and electricity; co-auth, Economics, an analytical approach; auth, The alleged excess burden of an excise tax, Rev. Ed. Studies. Address: Apt. 8-0, 2 Washington Square Village, New York, N.Y. 10012.

DAVIDSON, DR. ROGER H(ARRY), b. Washington, D.C, July 31, 36; m. 61; c. 1. POLITICAL SCIENCE. A.B, Colorado, 58; Woodrow Wilson Nat. Found. fel, Columbia, 58-59, Gilder, univ. & John W. Burgess fels, 58-62, Ph.D.(pub. law, govt), 63. Res. asst. POLIT. SCI, Brookings Inst, 60; res. assoc, W.E. Upjohn Inst. Employ. Res, 65-66; instr, Dartmouth Col, 62-64, asst. prof, 64-66; ASSOC. PROF, CALIFORNIA, SANTA BARBARA, 68- Consult, George Washington, 63-64 & 67-; Am. Enterprise Inst, 65. Polit. Sci. Asn. Political behavior; legislative politics; political parties; voting behavior. Publ: Co-auth, Congress in crisis: politics and congressional reform, Hawthorn, 67, On capitol hill: studies in the legislative process, Holt, 67 & The catfish and the fisherman: congress and prescriptive political science, Am. Behav. Scientist, 6/67. Address: Dept. of Political Science, University of California, Santa Barbara, Calif. 93106.

DAVIDSON, ROY M(ITCHELL), b. Los Angeles, Calif, July 5, 23; nat. Can. ECONOMICS. B.A, Alberta, 44; M.A, Toronto, 47. Economist, COMBINES BR, DEPT. JUSTICE, CAN, 47-60, sr. economist, 58-60, OFFICER IN CHARGE, MERGERS & MONOPOLIES SECT, 60- R.C.A.F, 44-45. Econ. Asn; Can. Polit. Sci. Asn. Industrial organization; government and business; industry studies. Address: 1249 Canadian Bldg, Ottawa, Ont, Can.

DAVIDSON, PROF. SIDNEY, b. Chicago, Ill, May 29, 19; m. 46; c. 2. ACCOUNTING, ECONOMICS. A.B. & M.B.A, Michigan, 41, Ph.D, 50. Asst. prof. ACCT, Hopkins, 49-52, assoc. prof, 52-56, prof, 56-58; GRAD. SCH. BUS, CHICAGO, 58-62, ARTHUR YOUNG PROF, 62- Vis. prof, London Sch. Econ, 56-57; Guggenheim fel, 56-57. Consult, Opers. Res. Off, 52-64; U.S. Treas. Dept, 60- U.S.N.R, 42-46, Lt. Econ. Asn; Am. Acct. Asn.(pres-elect, 67-68, pres, 68-69); Opers. Res. Soc. Accounting theory; depreciation accounting; use of accounting data and techniques in regulatory activity of government. Publ: Co-auth, Fundamentals of accounting & Studies in accounting theory; An income approach to accounting theory, Prentice-Hall, 65. Address: Graduate School of Business, University of Chicago, Chicago, Ill. 60637.

DAVIDSON, THOMAS LEA, b. Jersey City, N.J, June 26, 31; m. 53; c. 4. MARKETING, INDUSTRIAL ECONOMICS. B.A, Dartmouth Col, 53, M.B.A, 56; Northwestern, 56-58. Instr. mkt, Northwestern, 56-58; asst. prof, Connecticut, 58-63, coordinator res. proj, 59-60, asst. coordinator grad. prog, 61-63; v.pres, E.L. Reilly Co, Inc, 63-65; sr. proj. dir, OXTOBY-SMITH INC, 65-66, res. supvr, 66-67, res. mgr, 67-68, V.PRES. 68- Guest lectr, summer prog. capital formation, Vermont, 60; lectr, Bridgeport, 64-66. Dir, Mkt. Strategy, Inc, 61; E.L. Reilly Co, 62-65; Drorbaugh Pubs, 65-; Mt. Agamemticus Corp, 67- Consult, Standard Oil Co.(Ind), 56; Billboard Pub. Co, 57-61; Stanford

Res. Inst, 60; ed. cmt, New York Commodity Exchanges, 60-61; tech. consult, Outdoor Recreation Resources Rev. Cmn, 60-62; consult, small bus. cmt, U.S. Senate, 61-62. U.S.M.C.R, 51-, Maj. Mkt. Asn; Econ. Asn; Statist. Asn; Regional Sci. Asn; Asn. Pub. Opinion Res. Marketing psychology; statistical and economic analysis; computer applications; experimental design, sampling, questionnaire development and data processing; consumer motivation, attitude and behavior; corporate image; market feasibility; advertising effectiveness; cost-demand-price analysis. Publ: Annual survey and analysis of amusement-recreation industries, 1958, 1959, 1960, 1961; Problems of free markets and the role of commodity exchanges in the American economy; Some effects of the growth of planned and controlled shopping centers on small retailers. Address: Oxtoby-Smith, Inc, 880 Third Ave, New York, N.Y. 10022.

DAVIDSON, PROF. WILLIAM R, b. Gove Co, Kans, July 19, 19; m. 45; c. 2. MARKETING, MANAGEMENT. A.B, Col. Emporia, 40; M.S.B.A, Washington (St. Louis), 47; Ph.D.(mkt), Ohio State. Store mgr, F.W. Woolworth Co, 40-41; res. analyst, G. Myron Gwinner Assocs, Mo, 46-47; instr. MKT, Ohio State, 47-51, asst. prof, 51-54, assoc. prof, 54-58; PROF, grad. sch. bus, Stanford, 58-59; OHIO STATE, 59- Consult. to various bus. corps. & trade & indust. asns. U.S.N.R, 41-45, Lt. Mkt. Asn.(v.pres, 60-61, pres, 63-64); Econ. Asn; Acad. Polit. & Soc. Sci. Channels of distribution; vertically integrated business systems; effects of automated information systems on management efficiency. Publ: Co-auth, Retailing management, 3rd ed, 66 & Marketing, 8th ed, 67, Ronald; co-auth, Leased departments in discount retailing, Bur. Bus. Res, Ohio State Univ, 67. Address: 247 Preston Rd, Columbus, Ohio 43209.

DAVIE, DR. BRUCE FENWICK, b. Los Angeles, Calif, June 17, 36; m. 58; c. 2. ECONOMICS. B.A, Pomona Col, 58; Woodrow Wilson & Danforth fels, Harvard, 60-63, Ph.D.(econ), 64. Res. asst, Fed. Reserve Bank of Boston, 59-61; asst. prof, ECON, GEORGETOWN, 63-67, ASSOC. PROF, 67- U.S. Off. Ed. coop. res. proj. grant, 64, bur. res. proj. grant, 66. Consult, bur. res, U.S. Off. Ed, 65-67; bur. elem. & sec. ed, 66- Econ. Asn; Econ. Hist. Asn. Intergovernmental fiscal relations in the United States; public finance; American economic history. Publ: Investment practices of public employee retirement systems, Fed. Reserve Bank of Boston, 59; co-auth, Vocational education and intergovernmental fiscal relations in the postwar period, bur. Res, U.S. Off. Ed, 66; Equalization alternatives in grant-in-aid programs: allotment formulas and measures of fiscal capacity, Nat. Tax J, 6/67. Address: Dept. of Economics, Georgetown University, Washington, D.C. 20007.

DAVIE, DEAN JAMES S(TEWART), b. New Haven, Conn, Jan. 24, 25; m. 49; c. 3. SOCIOLOGY. B.A, Yale, 48, M.A, 49, Ph.D.(sociol), 51. Staff mem. study of ed. & instr. sociol, Princeton, 51-52; STAFF SOCIOLOGIST & COORDINATOR RES. DEPT. UNIV. HEALTH, YALE, 52-, DEAN TIMOTHY DWIGHT COL, 64- U.S.A, 43-46. Sociol. Asn; Col. Health Asn. Education; mental health. Publ: Social class factors and school attendance, Harvard Ed. Rev; The use of a college mental hygiene clinic, Student Med; contrib, The group interview, Soc. & Social Res. Address: 11 Ridgewood Terr, North Haven, Conn. 06473.

DAVIE, PROF. MAURICE R(EA), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 64.

DAVIER, PROF. MAURICE, Bus. Admin. Mgt, see 10th ed, Soc. & Behav. Vols, deceased 64.

DAVIES, DR. DAVID G(EORGE), b. Uniontown, Pa, May 27, 24; m. 49; c. 2. ECONOMICS. A.B, Stanford, 49; M.A, California, Los Angeles, 52, Haynes Found. fel, 54-55, Ph.D.(econ), 55. Asst, bur. bus. & econ. res, California, Los Angeles, 51-52, asst. econ, 52-54; asst. prof, Cincinnati, 55-58, assoc. prof, 58-60, Ford Found. faculty res. fel, 60-61; assoc. prof. ECON, DUKE, 61-66, PROF, 66- Ford Found. summer fel. pub. finance, Michigan, 66; Fulbright res. fel, Australia, 68. U.S.A.A.F, 43-47, Lt. AAAS; Econ. Asn; Statist. Asn; Econmet. Soc; Finance Asn; Royal Econ. Soc. Economic theory; public finance. Publ: An empirical test of sales-tax regressivity, J. Polit. Econ, 2/59; Progressiveness of a sales tax, Am. Econ. Rev, 12/60; A note on the ambiguity of shifts in a negative supply curves, S.African J. Econ, 12/66. Address: Dept. of Economics, Duke University, Durham, N.C. 27706.

DAVIES, PROF. EVERETT F(REDERICK) S(AMUEL), b. July 21, 02. SOCIOLOGY, PHILOSOPHY. A.B, Talladega Col, 27, B.D, 28; A.M, Yale, 30; Gen. Ed. Bd. fel, Columbia, 44-46, D.Ed, 46. Prof. ed. & psychol, Bishop Col, 32-35; assoc. dir, Soc. Surv, Mich, 35-36; asst. prof. PHILOS. & SOCIOL, VA. STATE COL, 36-44, assoc. prof, 46-48, PROF, 48-, dir. relig. activities, 36-44. V.pres, Petersburg Area Coun. Human Rels, 64- Sociol. Asn; Philos. Ed. Soc; Philos. Asn. Occupations of Negroes in Virginia; Platonic and Hebrew justice contrasted; making religion effective in a state college. Publ: Social philosophy of Nikolai Berdyev; Determinism and indeterminism; Negro protest movement: the religious way. Address: Dept. of Philosophy, Virginia State College, Petersburg, Va. 23803.

DAVIES, PROF. GEOFFREY O(RMOND) B(OND), Int. Affairs, see 10th ed, Soc. & Behav. Vols, deceased 67.

DAVIES, PROF. GEORGE R(EGINALD), Statist, see 10th ed, Soc. & Behav. Vols, deceased.

DAVIES, DR. J. CLARENCE, III, b. New York, N.Y, Nov. 16, 37; m. 59; c. 2. POLITICAL SCIENCE. B.A, Dartmouth Col, 59; Ph.D.(polit. sci), Columbia, 65. Instr. govt. & dir. bur. res. munic. govt, Bowdoin Col, 63-65; exam, U.S. Bur. Budget, 65-67; ASST. PROF. POLIT. & PUB. AFFAIRS, PRINCETON, 67- Consult, Maine State Cmn. Intergovt. Rels, 63-65; U.S. Bur. Budget, 67- Urban affairs; state and local government; public administration. Publ: Neighborhood groups and urban renewal, Columbia, 66. Address: Woodrow Wilson School, Princeton University, Princeton, N.J. 08540.

DAVIES, PROF. JAMES C(HOWNING), b. Wauwatosa, Wis, May 6, 18; m. 43; c. 1. POLITICAL SCIENCE. A.B, Oberlin Col, 39; Soc. Sci. Res. Coun. fel, 50-51; Ph.D, California; 52. Carnegie fel, surv. res. center, Michigan, 51-53; asst. prof. POLIT. SCI, Calif. Inst. Tech, 53-56, assoc. prof, 56-60, prof, 60-63; PROF, OREGON, 63-, head dept, 64-67. Vis. assoc. prof, California, 59-60; Soc. Sci. Res. Coun. faculty res. fel, 61-62; Rockefeller Found. fel, 62-63. U.S.A, 46-47. Polit. Sci. Asn; Int. Polit. Sci. Asn. Political behavior; political revolution; the political novel. Publ: Human nature in politics, Wiley, 63; Toward a theory of revolution, Am. Sociol. Rev; Political fiction, Int. Encyclop. Soc. Sci, 68. Address: Dept. of Political Science, University of Oregon, Eugene, Ore. 97403.

DAVIES, PROF. JOSEPH KENNETH, b. Los Angeles, Calif, Apr. 30, 25; m. 49; c. 1. ECONOMICS. B.N.S, Marquette, 45; M.S, Brigham Young, 50; Ph.D, Southern California, 60. Missionary, 46-48; officer trainee, Bank Am, 52-53; instr. ECON, BRIGHAM YOUNG, 53-57, asst. prof, 57-61, assoc. prof, 61-64, PROF, 64- Vis. asst. prof, Duke, 59-60; instr, Columbia-Geneva Works, U.S. Steel Corp, 61- Summers, Ford Found. fel, Stanford, 60, exec. dir, Utah Workshop Econ. Ed, 66. Dir. ed. & publications, Fed. Deposit Ins. Corp, 66-67. Consult, Springville City, Iron County Schs, & Weber County Schs, 62-65; Teamwork Found, 67- U.S.N.R, 42-46, Res, 46-67, Lt. Econ. Asn. Relationship of religious organizations to the labor movement; economics in junior colleges; evaluation of manpower training programs. Publ: The challenge of the junior college to the economics profession, Jr. Col. J, 11/62; Mormonism and the closed shop, Labor Hist, spring, 62; Utah labor before statehood, Utah Hist. Quart, summer 66. Address: Dept. of Economics, Brigham Young University, Provo, Utah 84601.

DAVIES, DR. LEWIS J(AMES), b. Clifton, N.J, June 8, 24; m. 50. c. 3. SOCIOLOGY. B.A, Texas, 47, M.A, 50; Ph.D.(sociol), Illinois, 60. Prof. soc. sci. & chmn. dept, Southwest Tex. Jr. Col, 50-52; res. asst. sociol. of family, Illinois, Urbana, 55-57; ASSOC. PROF. SOCIOL, Wayne State Col, 57-62; TEX. TECH. COL, 62- U.S.A, 42-46. Fel. Sociol. Asn; Soc. Study Commun. History and sociology of the cartoon industry: form and content analysis of still picture data; comparisonof editorial cartoon opinion on the same international issues. Publ: The Suez crisis, 1956-1957, as depicted by American and foreign cartoonists: form and content analysis, 64 & identity, 67, Proc. Southwest. Sociol. Asn. Address: Dept. of Sociology, Texas Technological College, Lubbock, Tex. 79409.

DAVIES, PROF. MARGARET MARY, b. Seattle, Wash. Oct. 2, 12; ECONOMICS, POLITICAL SCIENCE. B.A, Washington (Seattle), 38. fel, 50-53, Ph.D, 60. Mem. staff, UN conf. int. orgn, U.S. Dept. State, Calif. 45, allied mission observe Greek elections, 46, President's Spec. Cabinet Cmt. on Palestine & Related Probs, D.C, & Eng, 46, off. legal adv, treaty div, 47. Am. mission to Greece, 47-48; mem, mission to Greece, Econ. Coop. Admin, 48; instr. ECON, SEATTLE, 55-57, asst. prof, 57-60, assoc. prof, 60-67, PROF. & CHMN. DEPT, 67- Mem. bd, Seattle Chapter, UN Orgn, 60-; pres. bd. dirs, Lee House Sr. Citizens, Seattle, 65-; mem. bd. dirs. Sr. Centers, Inc, 66-; chmn. bd, Caritas Proj, 66- Mem, White House Cong. Aging, 60-61; chmn. res, Seattle-King County Cmt. Aging. 63- AAAS; Econ. Asn; Polit. Sci. Asn; Am. Soc. Int. Law. International organization and economics; American foreign policy and government; labor economics; problems of aging. Publ: Role of the American Trade Union representatives in the Aid to Greece Program, 1947-1948. Address: Dept. of Economics, Seattle University, Seattle, Wash. 98122.

DAVIES, RICHARD LLOYD, b. Wooster, Ohio, Feb. 23, 10; m. 35; c. 2. ECONOMICS, RESEARCH MANAGEMENT. Yale, 27-30. Engr, Denver Fire Clay Co, 30-34; chemist, Pennsalt Chem. Corp, 34-49, pres, Pennsalt Int. Corp, 49-57; exec. dir, Klein & Saks, Mgt. Consult, 57-63, PRES, KLEIN & SAKS, INC, 63- King Christian X Medal Liberation, Denmark, 45. Chem. Soc; Chem. Mkt. Res. Asn; Am. Geog. Soc. Processes for making alkali subsilicates, dissolving cellulose and reclaiming rubber, purifying electrolytic cell liquor and making sodium aluminate; balance of payments. Publ: Establishing operations in Latin America, Univ. Pennsylvania, 56; Cleaning steel-chemically, Chem. & Metall. Eng; The Christian role of management in the free nations of the world, Trend Mag. Address: Klein & Saks, Inc, Suite 1140, 1001 Connecticut Ave. N.W, Washington, D.C. 20036.

DAVIES, DR. STANLEY P(OWELL), b. Philadelphia, Pa, June 22, 92; m. 17; c. 2. SOCIOLOGY. A.B, Bucknell, 12, L.H.D, 39; Ph.D. Columbia, 23. Exten. instr. sociol, Columbia, 19-23; prof, Bucknell, 23-24; assoc. secy, N.Y. State Charities Aid Asn, 24-33; gen. dir, N.Y. Charity Orgn. Soc, 33-39; Community Serv. Soc, N.Y, 39-57; CONSULT, 57-; MENT. RETARDATION PLANNING COORDINATOR, DEPT. MENT. HYGIENE, STATE OF NEW YORK, 64- Sanit.C, 17-19, Capt. Sociol. Asn; fel. Asn. Ment. Deficency. Public provision for recreation; mentally retarded in society; community mental health. Address: 25 Stratford Ave, White Plains, N.Y. 10605.

DAVIES, PROF. VERNON, b. Cannonville, Utah, Jan. 16, 06; m. 40; c. 3. SOCIOLOGY. B.S, Brigham Young, 36; M.S, Utah, 38; Ph.D. Minnesota, 44. Instr. SOCIOL, Arkansas, 44-45; lectr, Minnesota, 45-46; assoc. prof, Mississippi, 46-47; asst. prof, WASHINGTON STATE, 47-52, assoc. prof, 52-56, PROF, 56- Sociol. Asn. Social psychology; population; social statistics. Publ: Co-auth, Experiments in teaching effectiveness; auth, Sociology self-taught; Housing for Mississippians, Sociol. Series, Bur. Pub. Admin, Univ. Mississippi. Address: Dept. of Sociology, Washington State University, Pullman, Wash. 99163.

DAVIS, DR. ADAM CLARKE, b. Kinston, N.C, Nov. 13, 31; m. 58; c. 2. SOCIOLOGY. B.S, North Carolina, 56; M.S, N.C. State, 61; Ph.D.(sociol), Duke, 67. Asst. mgr. classifications control, Thalhimer's Dept. Store, Va, 56-57, asst, to off. mgr, 57-58; ASST. PROF. SOCIOL, N.C. STATE, 64- U.S.A, 52-55, Sgt. Sociol. Asn. Process of urbanization and its structural and social psychological effects on communities and their residents. Address: Dept. of Sociology & Anthropology, North Carolina State University, Box 5428, Raleigh, N.C. 27607.

DAVIS, PROF. ALONZO J(OSEPH), b. Washington, D.C, July 18, 09; m. 40; c. 2. PSYCHOLOGY. S.B, Howard, 31, S.M, 32; Harvard, 35; Yale, 39-40; Rosenwald fel, 39; Gen. Ed. Bd. fel, Minnesota, 46, Ph.D.(psychol), 47. Instr. psychol, Howard, 32-33; Tuskegee Inst, 34-44, assoc. prof, 45-47,

prof, 47-59, dean sch. ed, 49-59, acting dean, 48-49, secy. labor, 36-45; prof. PSYCHOL, Fla. Agr. & Mech. Univ, 59-62; PROF. & CHMN. DEPT, N.C. COL. DURHAM, 62- Psychol. Asn. Personality and aptitude measurement; learning methods. Address: Dept. of Psychology, North Carolina College at Durham, Durham, N.C. 27707.

DAVIS, DR. ALTEN B, b. Riverside, Utah, Dec. 9, 21; m. 46; c. 3. POLITICAL SCIENCE. B.S, Utah State, 43; M.S, California, Berkeley, 49, Ph.D. (polit. sci), 62. Teacher & counsr, high sch, 51-62; asst. prof. POLIT. SCI, WEBER STATE COL, 62-67, ASSOC. PROF. & CHMN. DEPT, 67- Instr, South. Alameda County Jr. Col, 61-62. U.S.A, 43-45, Sgt. Polit. Sci. Asn; Soc. Pub. Admin. American government; public administration and policy; international relations. Address: Dept. of Political Science, Weber State College, 3750 Harrison Blvd, Ogden, Utah 84403.

DAVIS, PROF. ARTHUR K(ENT), b. Boston, Mass, Feb. 10, 16. SOCIOLOGY. A.B, Harvard, 37, A.M, 38, Ph.D, 41. Instr. sociol, Harvard, 41-43, instr. & head tutor soc. rels, 46-47; assoc. prof. sociol. & chmn. dept, Union (N.Y), 47-53; vis. prof, Columbia, 53; Pennsylvania, 53-54; Vassar Col, 55; Vermont, 55-58; chief res. officer, center community studies, Univ. Saskatchewan, 58-64; PROF. SOCIOL, CALGARY, 64- Vis. prof, West. Wash. State Col, 64; vis. lectr, Alberta, 66-67. U.S.N.R, 43-46, Lt. Comdr. Sociol. Asn; Ethnol. Soc; Acad. Polit. & Soc. Sci; Soc. Appl. Anthrop; Can. Sociol. & Anthrop. Asn. Sociological theory; socialism; social change; community; migration from underdeveloped communities to urban areas, with special reference to Canadian Indians. Publ: Ed, A northern dilemma: reference studies, West. Wash. State. Col, 67. Address: Dept. of Sociology, University of Calgary, Calgary, Alta, Can.

DAVIS, DR. A(RVILLE) D(EAN), b. Wynona, Okla, Feb. 24, 29; m. 48; c. 1. PSYCHOLOGY. B.A, Puget Sound, 51; M.S, Washington (Seattle), 53; Ph.D. (clin. psychol), Texas, 57. Extern clin. psychol, Vet. Admin. Hosp, Temple, Tex. 55-56, intern, Houston, 56-57; clin. psychologist, State Ment. Health Res. Inst. Ft. Steilacoom, Wash, 57-59; head clin. psychol. serv, WEST. STATE HOSP, 59-61, CHIEF PSYCHOLOGIST, 61- Res. consult, State Ment. Health Res. Inst, Wash, 61. U.S.N, 46-48. AAAS; Psychol. Asn. Learning theory: projective tests; electrophysiology; psychotherapy; psychodynamics; personality development. Publ: Some physiological correlates of Rorschach body image productions, J. Abnorm. Psychol; Test of one aspect of contiguity theory, J. Exp. Psychol. Address: P.O. Box 1671, Ft. Steilacoom, Wash. 98494.

DAVIS, DR. BERNARD, b. Oneida, Ky, Feb. 13, 36; m. 56; c. 4. ECONOMICS. B.S. Berea Col, 56; M.A, Kentucky, 62, Ph.D.(econ), 67. ASST. PROF. ECON. BEREA COL, 64- Econ. Asn. Price theory; managerial economics; financial institutions. Address: Dept. of Economics, Berea College, Berea, Ky. 40403.

DAVIS, PROF. CHARLES M(OLER), b. Denver, Colo, Dec. 11, 00; m. 31. GEOGRAPHY. A.B, Michigan, 25, A.M, 26, Ph.D, 35. Instr. GEOG, MICHIGAN, 25-27, 30-39, asst. prof, 39-45, assoc. prof, 45-49, PROF, 49-, chmn. dept, 56-66, dir. admissions with adv. standing, 39-42. Carnegie Corp. res. grant, 39-40; Fulbright res. fel, Australia, 52; Carnegie vis. prof, Hawaii, 62. Asst. land negotiator, biol. surv, U.S. Dept. Agr, 35; geogr, U.S. Geol. Surv, 66-67. Mem, Nat. Res. Coun. adv. cmt. to geog. br, Off. Naval Res, 49-51, chmn. cmt. geog. field tech, 49-52 & mem. subcmt. geog, adv. cmt. space progs. for earth observations, U.S. Geol. Surv, 66-; mem, Nat. Res. Coun, 60-62. U.S.N.R, 42-60, Capt. Asn. Am. Geog. Geography of Australia and Pacific area; field techniques; Rocky Mountains. Address: Dept. of Geography, University of Michigan, Ann Arbor, Mich. 48104.

DAVIS, PROF. DANIEL R(OWLAND), b. Mt. Pleasant, Tex, Apr. 11, 08; m. 38; c. 2. SOCIOLOGY. B.S. Agr. & Mech. Col, Tex, 32, fel, 33-35, M.S, 35; Farm. Found. fel, Chicago, 46; Found. Econ. Ed, Inc. fel, 51. Asst. prof, TEXAS A&M, 36-46, ASSOC. PROF. SOCIOL. & RURAL SOCIOL, 46-, MEM. STAFF, ORIENTATION PROG, OFF. INT. PROGS, 65- Summer study, Pakistan, India, Ceylon & Philippines, 60, Guatemala, Costa Rica, Brazil, Paraguay & Peru, 61. Consult. & area dir, Nat. Save Children Fedn, 42-46; Tex. Eng. Exp. Sta, 53-54; Tex. Transportation Inst, 55-59; Ford Found, 60-65. Sociol. Asn; Rural Sociol. Soc; Soc. Appl. Anthrop; Rehab. Asn. Community organization; social problems and transportation. Publ: Community organization program for small communities; Experiment in informal community organization; Social change: a sociology series, Tex. Agr. Exp. Sta, 4/67. Address: 202 Montclair St, College Station, Tex. 77840.

DAVIS, DR. DAVID, b. Liverpool, Eng, Oct. 5, 27; U.S. citizen; m. 52; c. 3. PSYCHIATRY. M.B, Ch.B, Glasgow, 49; D.P.M, Royal Col. Physicians & Surgeons, 54. House officer, Stobhill Hosp, Glasgow, Scotland, 49-50; registr. psychiat, St. Crispin & South Ockerdon Hosps, Eng, 52-55; res. fel. & Fulbright travel scholar, Washington (St. Louis), 55-57; registr, Bethlem Royal & Maudsley Hosps, London, Eng, 57-59; asst. prof, SCH. MED, MISSOURI, 60-61, assoc. prof. psychiat. & chief sect. gen. psychiat, 61-68, PROF. PSYCHIAT. & CHMN. DEPT, 68- Am. Fund Psychiat. teaching fel, 61-62; vis. faculty fel. & Nat. Inst. Ment. Health sr. stipend, lab. community psychiat, Harvard Med. Sch, 65-67. Mem. coord. cmt, Inter-Univ. Forum Educators Community Psychiat, 66- Med. Br, R.A.F, 50-52, Flight Lt. Fel. AAAS; fel. Psychiat. Asn; Royal Soc. Health. Community psychiatry; medical education; clinical psychiatric research. Publ: Co-auth, Changes in the photically driven EEG following electroconvulsive therapy, J. Neuropsychiat, 62; Field trip program for senior medical students, 62 & Introducing the community to medical students, 68, J. Med. Ed. Address: Dept. of Psychiatry, University of Missouri School of Medicine, Columbia, Mo. 65201.

DAVIS, DR. DORIS L, Speech Path, Audiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

DAVIS, DR. E(DWARD) MOTT, b. Shirley, Mass, Nov. 24, 18; m. 43; c. 2. ARCHAEOLOGY. B.S, Harvard, 40, M.A, 42, Ph.D.(anthrop), 54. Instr. & curator anthrop. Nebraska, 48-54, asst. prof, 54-56; res. scientist, TEXAS, 58-65, lectr. ANTHROP, 58-65, ASSOC. PROF, 65-, dir. radiocarbon lab, 58-68. AAAS; Anthrop. Asn; Soc. Am. Archaeol.(secy, 64-68). Early horizons on Great Plains; Caddoan area; presentation of archaeological subjects for laymen; radiocarbon dating in archaeology. Publ: Archaeological survey of the Big Sandy reservoir area, southwestern Wyoming, Univ. Nebr. Lab. Anthrop. Notebook; Archaeology of the Lime Creek site in southwestern Nebraska, Univ. Nebr. Mus. Spec. Pub; co-auth, Jake Martin Site, Univ. Texas Dept. Anthrop, 60. Address: Dept. of Anthropology, University of Texas, Austin, Tex. 78712.

DAVIS, DR. EDWARD TRUE, b. Portsmouth, N.H, Sept. 6, 19; m. 42; c. 2. CLINICAL PSYCHOLOGY. B.A, New Hampshire, 43; M.A. & Ph.D.(clin. psychol), Harvard, 53. Psychol. technician commun. res, Mass. Inst. Tech, 52-53; clin. psychologist, BEDFORD VET. ADMIN. HOSP, 53-58, asst. chief clin. psychologist, 58-65, SUPVRY. PSYCHOLOGIST, 65- Instr, Boston, 57-; sch. med, Tufts, 62- Consult, St. Elizabeth's Hosp, Brighton, Mass, 58-64; Glenside Neuropsychiat. Hosp, Jamaica Plain, 62- A.U.S, 43-47, Capt. Effects of secondary stimulation on a primary sensory process and theoretical explanatory brain models associated with these events. Publ: Co-auth, Schizophrenic motor activity observed over 30 years, Arch. Gen. Psychiat, 62 & E.E.G. activation: nonspecific habituation by verbal stimuli, Science, 66; auth, Heteromodal effects upon visual thresholds, Psychol. Monogr, 66. Address: 32 Pequot Rd, Wayland, Mass. 01778.

DAVIS, EMILY C(LEVELAND), Anthrop, see 10th ed, Soc. & Behav. Vols. Latest known address: 2424 Pennsylvania Ave. N.W, Washington, D.C. 20037.

DAVIS, PROF. ETHELYN C(LARA), b. St. Joseph, Mo, Oct. 9, 15. SOCIOLOGY. A.B, Southern Methodist, 35, A.M, 36; Ph.D, Missouri, 42; summers, Minnesota, 39, Illinois, 40, Washington (St. Louis), 45, 46, Michigan, 50. Assoc. prof. SOCIOL, TEXAS WOMAN'S UNIV, 42-59, PROF, 59-, DIR. DEPT, 54- Higher Ed. Act res. grant, 66-68. Sociol. Asn. Sociology of youth. Address: Dept. of Sociology, Texas Woman's University, Box 3923, Denton, Tex. 76204.

DAVIS, PROF. F(LOYD) JAMES, b. Webb, Iowa, May 23, 20; m. 44; c. 3. SOCIOLOGY. B.A, Iowa, 41, Ph.D, 49; State Col. Wash, 41-42. Asst. prof. sociol, West. State Col. Colo, 49-51; asst. res. sociologist, air site proj, Washington (Seattle), 51-52; asst. prof. SOCIOL, Col. Wooster, 52-54, assoc. prof, 54-57; prof. & head dept, Hamline, 57-62; PROF. & CHMN. DEPT, CALIF. STATE COL. FULLERTON, 62- Summers, Soc. Sci. Res. Coun. res. grant, res. training inst. law & soc. rels, Harvard, 56; Hill Family Found. res. grant, Near E. Dept, Michigan, 57; St. Paul, Minn, 62; Fulbright res. grant, Turkey, 68-69. U.S.N, 42-45. Sociol. Asn. Social change; collective behavior; sociology of law. Publ: Co-auth, Society and the law; auth, Conceptions of official leader roles in the air force; Cultural perspectives of Middle Eastern students in the United States. Address: Dept. of Sociology, California State College at Fullerton, Fullerton, Calif. 92631.

DAVIS, DR. FRED, b. New York, N.Y, May 12, 25; m. 55; c. 1. SOCIOLOGY. M.A, Chicago, 51, U.S. Pub. Health Serv. fel, 57-58, Ph.D.(sociol), 58. Asst. proj. officer, human rel. res. inst, Air Univ, 51-53; res. sociologist, psychiat. inst, med. center, Maryland, 53-57; inst. family rels, Jewish Family Serv, 57-59; res. fel, Asn. Aid Crippled Children, 59-60; assoc. res. sociologist & res. dir, sch. med, CALIFORNIA, SAN FRANCISCO, 60-66, assoc. prof. SOCIOL, SCH. NURSING, 66-67, PROF, 67- Res. consult, Res. Serv, Ltd, Eng, 55-56; consult, Soc. Invest. Human Ecol, 60. U.S.A, 43-46. Sociol. Asn; Soc. Study Social Probs. Social psychology; mass communications; medical sociology; sociology of occupations and professions. Publ: Passage through crisis, Bobbs, 63; The nursing profession, Wiley, 66; Cab driver and his fare, Am. J. Sociol. Address: School of Nursing, University of California Medical Center, San Francisco, Calif. 94122.

DAVIS, PROF. FREDERICK B(ARTON), b. Boston, Mass, Aug. 27, 09; m. 40; c. 1. PSYCHOLOGY. B.S, Boston, 31; Ed.M, Harvard, 33, Ed.D.(psychol), 41. Sch. psychologist, Avon Old Farms, Conn, 36-39; lectr. ed. psychol. & measurement, Wellesley Col, 38-39; ed, Coop. Test Serv, New York, 39-42; asst. dir. aviation psychol. prog, U.S. Army Air Force, 46-47; prof. psychol. & head dept, George Peabody Col, 47-59; prof. ed, Hunter Col, 49-64; PROF. ED. & DIR. ED. RES. & SERV. BUR, PENNSYLVANIA, 64- Lectr, California, Los Angeles, 47, 56-57; Harvard, 48; Teachers Col, Columbia, 53-54, 60-62; Fulbright lectr, Amsterdam, 57-58; dir. Proj. Talent, Wash. Off. & vis. prof, Pittsburgh, 63-64. Consult, Am. Coun. Ed, 46, 67-68; res. consult, Philippine Center Lang. Study, 59-67; eval. consult, Ford Found, Latin Am, 67. Ed, Am. Ed. Res. J, 63-65. U.S.A.A.F, 42-46. Fel. Am. Psychol. Asn; Nat. Coun. Measurement in Ed.(pres, 63-64); Psychomet. Soc. Publ: Educational measurements and their interpretation, Wadsworth, 64; Philippine language-teaching experiments, Phoenix-Alemar, 67; Identification and measurement of reading skills in high-school students, U.S. Off. Ed, 67. Address: 10 Kent Rd, Bronxville, N.Y. 19104.

DAVIS, DR. F(REDERICK) H(EUSTON), Psychiat, see 11th ed, Phys. & Biol. Vols.

DAVIS, PROF. GEORGE B(ALFOUR), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

DAVIS, GEORGE O(THO), JR, Geog, see 10th ed, Soc. & Behav. Vols.

DAVIS, GILBERT P, b. Mo, Apr. 7, 23; m. 48; SOCIOLOGY. M.A, Univ. Kansas City, 49. Instr. sociol, Westminster Col.(Mo), 48-50; asst, Illinois, 50-53; sr. res. assoc, MKT. RES. DEPT, AM. OIL CO, 53-61, asst. mgr. consumer res, 61-63, STAFF DIR, 63- U.S.A, 43-46. Sociol. Asn. Industrial sociology. Address: American Oil Co, 910 S. Michigan, Chicago, Ill. 60680.

DAVIS, PROF. GORDON B, b. Idaho Falls, Idaho, Aug. 9, 30; m. 54; c. 3. BUSINESS ADMINISTRATION. B.A, Idaho State, 55; M.B.A, Stanford, 57, Ph.D.(bus), 59. Consult. opers. res, Touche, Ross, Bailey & Smart, 59-61; PROF. ACCT. & MGT. INFO. SYSTS, SCH. BUS. ADMIN, MINNESOTA, 61- Ford Found. res. fel, 63-64. Inst. Cert. Pub. Acct; Asn. Comput. Mach; Opers. Res. Soc. Am; Inst. Mgt. Sci. Application of quantitative tools and

analytical techniques to the analysis and design of computer based management information systems. Publ: Introduction to electronic computers, McGraw, 65; co-auth, Efficacy of audit confirmations, Nat. Asn. Bank Auditors & Controllers, 67; auth, Auditing and EDP, Am. Inst. Cert. Pub. Acct, 68. Address: 2148 Folwell, St. Paul, Minn. 55108.

DAVIS, DR. HANNAH S(USAN), b. Elizabeth, N.J, Feb. 15, 13. PSYCHOLOGY. A.B, Mt. Holyoke Col, 34; M.A, Columbia, 47, Ph.D, 59. Psychologist, Northampton St. Hosp, Mass, 48-50; assoc. psychologist, Lynchburg Training Sch. & Hosp, Va, 50-52, chief psychologist, 52-59; psychologist, Bedford Sch. Dist, N.Y, 59-60; CHIEF PSYCHOLOGIST, LYNCHBURG TRAINING SCH. & HOSP, 60- Psychol. Asn; Asn. Ment. Deficiency. Diagnostic evaluation; therapy. Publ: Judgments of intellectual level from various features of the Rorschach including vocabulary, J. Proj. Tech. Address: Lynchburg Training School & Hospital, Lynchburg, Va. 24505.

DAVIS, PROF. HAROLD EUGENE, b. Girard, Ohio, Dec. 3, 02; m. 29; c. 1. POLITICAL SCIENCE. B.A, Hiram Col, 24; M.A, Chicago, 27; Ph.D, Western Reserve, 33. Prof. hist. & polit. sci. & dean, Hiram Col, 27-47; UNIV. PROF. LATIN AM. STUDIES, AMERICAN UNIV, 47-, dean col. arts & sci, 53-58. Dir. div. ed. & teacher aids, Off. Inter-Am. Affairs, 43-45; instr, U.S. Army Univ.(France), 45-46; lectr, For. Serv. Inst, Wash. Int. Center & Indust. Col. Armed Forces, 50-; Fulbright prof, Univ. Chile, 58-59 & Indian Sch. Int. Studies, New Delhi, 65-66. Polit. Sci. Asn; Hist. Asn; Inter-Am. Indian Inst; Latin Am. Studies Asn; Inst. Hist. & Geog, Uruguay. Presidency in Latin America; social and political thought in Latin America; foreign policies of Latin American states; Mexican revolution. Publ: Government and politics in Latin America; Latin American social thought; Americas in history. Address: 4842 Langdrum Lane, Chevy Chase, Md. 20015.

DAVIS, PROF. HARRY REX, b. Ozona, Tex, Nov. 9, 21; m. 47; c. 3. POLITICAL SCIENCE. A.B, Texas Christian, 42, univ. fel, 45-46; Hillman fel, Chicago, 47, MacClintock fel, 47-48, A.M, 49, Ph.D.(polit. sci), 51. Instr. GOVT, BELOIT COL, 48-51, asst. prof, 51-56, assoc. prof, 56-59, PROF. & CHMN. DEPT, 59- Ford Found. fel, Union Theol. Sem. & Columbia, 52-53; summer. res. fels, Brookings Inst, 56 & Duke, 58; Rockefeller Found. fel, Eng, 60-61. Mem. counseling cmt. church & soc, United Presby. Church U.S, 65-; congressional home secy. to Congressman Lynn Stalbaum, 66. U.S.A.A.F, 42-45. Polit. Sci. Asn; Soc. Polit. & Legal Philos. History of political ideas; Christian social thought; formal political theory. Publ: Co-auth, Small city government; co-ed, Reinhold Niebuhr on politics; co-auth, Presidential nominating politics in 1952, Johns Hopkins, 54. Address: 735 Harrison Ave, Beloit, Wis. 53511.

DAVIS, PROF. HESTER A(SHMEAD), b. Ayer, Mass, June 4, 30. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Rollins Col, 52; Oregon, 52-54; M.A, Haverford Col, 55; M.A, North Carolina, 57. Res. assoc. anthrop, inst. agr. med, Iowa, 57-59; preparator, Univ. Arkansas Mus, 59-63, asst. dir, 63-67, instr. ANTHROP, ARKANSAS, 60-67, ASST. PROF, 67-; STATE ARCHAEOLOGIST, ARK. ARCHEOL. SURV, 67- Soc. Am. Archaeol; fel. Anthrop. Asn. Applied anthropology and culture change in American Indian groups and modern American communities; archaeology of Southeastern United States. Address: University of Arkansas Museum, Fayetteville, Ark. 72701.

DAVIS, DR. HIRAM S(IMMONS), b. Butler, Mo, Oct. 8, 03. INDUSTRIAL ECONOMICS. B.S, Kans. State Teachers Col, 24; M.S, Denver, 27; Ph.D, Pennsylvania, 55. Instr. & asst, Wharton Sch. Finance & Commerce, Pennsylvania, 27-28, res. assoc, dept. indust. res, 29-43, dir. dept, 45-53; prod. res, Nat. Bur. Econ. Res, 53-54; DIR. ECON. RES. & TREAS, WEST. MGT. CONSULTS, INC, 56- Asst. to dir. bur. bus. res, Pittsburgh, 28-29. Consult, Off. Price Admin, 43-44; secy. textile cmt, Combined Prod. & Resources Bd, 44. Econ. Asn; Mkt. Asn; Statist. Asn. Productivity. Publ: Productivity accounting; Capital requirements and operating ratios; Industrial study of economic progress. Address: Western Management Consultants, Inc, 100 W. Clarendon, Phoenix, Ariz. 85013.

DAVIS, PROF. HORACE B(ANCROFT), b. Newport, R.I, Aug. 10, 98; m. 25; c. 5. LABOR ECONOMICS. A.B, Harvard, 21; Ph.D.(econ), Columbia, 34. Amherst Mem. fel, 26-29; prof, Southwestern at Memphis, 29-30; writer, N.Y, 30-33; contracted prof, Escola Livre de Sociol. e Polit. de Sao Paulo, Brazil, 33-34; instr, Bradford Jr. Col, Mass, 34-36; instr. & asst. prof, Simmons Col, 36-41; worker, unions & civic orgn, 41-47; assoc. prof. econ, Kansas City, 47-53; head div, Benedict Col, 55-57; prof. soc. sci. & chmn. dept. econ. & bus, Shaw, 57-63; PROF. ECON, GUYANA, 63-, dean faculty soc. sci, 63-65. Sociol. Asn; Econ. Asn; Indust. Rels. Res. Asn. Standards and scales of living. Publ: Labor and steel; Shoes, the workers and the industry; Nationalism and socialism: Marxist and labor theories of nationalism to 1917, Monthly Rev, 67. Address: Shawm Hill, Sandwich, Mass. 02563.

DAVIS, PROF. HOWARD ECKERT, b. Palmerton, Pa, Sept. 16, 33; m. 57; c. 3. POLITICAL SCIENCE. A.B, Dickinson Col, 55; M.A, Yale, 56, Ph.D.(state legis. process), 62. Assoc. prof. POLIT. SCI, RANDOLPH-MACON COL, 59-62, PROF. & CHMN. DEPT, 62- Polit. Sci. Asn. State and local government, especially the legislative process; political behavior. Address: Dept. of Political Science, Randolph-Macon College, Ashland, Va. 23005.

DAVIS, DR. HOWARD R(AYMOND), b. Sarahsville, Ohio, Nov. 26, 23; m. 45; c. 2. PSYCHOLOGY. B.A, Gustavus Adolphus Col, 49; M.S.W, Denver, 51, Ph.D.(exp. & clin. psychol), 53. Clin. psychologist & res. & training asst, Osawatomie State Hosp, Kans, 53-55; chief clin. psychologist, Willmar State Hosp, Minn, 55-58; consult. psychol, State Div. Med. Servs, 58-61; asst. clin. prof, Minnesota, 58-61; chief psychologist & res. coordinator, Minn. State Ment. Health Prog, 61-63; clin. assoc. prof, med. sch, Minnesota, 63; consult. psychol, NAT. INST. MENT. HEALTH, 63-66, CHIEF APPL. RES. BR, 66- U.S.A.A.F, 42-46, 1st Lt. Psychol. Asn. Rehabilitation of mentally ill; learning theory; administration; research implementation; learning theory in behavior change; research administration. Publ: Co-auth, Outpatient treatment of schizophrenia, Grune, 60. Address: Applied Research Branch, National Institute of Mental Health, 5454 Wisconsin Ave, Chevy Chase, Md. 20203.

DAVIS, DR. HOWARD WINGFIELD, b. San Antonio, Tex, July 3, 35; m. 62; c. 2. ECONOMICS. B.A, Stanford, 57; M.B.A, Texas, 61, Ph.D.(econ. resources), 66. Vis. lectr. ECON, North Carolina, Chapel Hill, 64-65; ASST. PROF, CALIFORNIA, RIVERSIDE, 65- Bank of Am. Found. Econ. Ed. prof. & faculty fel, California, 66. Econ. Asn; Asn. Evolutionary Econ. Urban and regional economic analysis, including small-area development; public policy toward transportation; economic theory. Publ: A review of federal rate regulation and its impact upon the railway industry, Land Econ, 2/68. Address: Dept. of Economics, University of California, Riverside, Calif. 92502.

DAVIS, DR. HUGH C, JR, b. U.S, Apr. 20, 28; m. 50; c. 1. CLINICAL PSYCHOLOGY. B.A, Austin Peay State Col, 52; M.S, Tennessee, 53, Ph.D, 59. Clin. psychologist, East. State Hosp, Tenn, 59-60; asst. prof. psychol. & psychologist, J. Hillis Miller Health Center, FLORIDA, 60-61, acting head clin. psychol. serv, 61-65, ASSOC. PROF. PSYCHOL. & CLIN. PSYCHOLOGIST, COL. HEALTH RELATED PROFESSIONS, 65- Psychol. Asn. Established principles of learning; psychotherapy. Publ: Similarities in meaning of elements and figures of the Bender-Gestalt; Types of workhouse alcoholics, J. Ale Studies. Address: Dept. of Psychology, University of Florida, Gainesville, Fla. 32603.

DAVIS, DR. HUGH ORTON, b. Nacogdoches, Tex, Aug. 30, 99. SOCIOLOGY. A.B, Baylor, 25, A.M, Harvard, 30, Ph.D, 41. Prin, high sch, Tex, 19-21, supt, 21-24, 25-27; asst. instr, Baylor, 24-25, assoc. prof. sociol, 48-53; head dept. soc. sci, high sch, Mass, 28-41; prof. soc. sci, Oklahoma Baptist, 53-60; sociol, 60-64; prof. polit. sci. & chmn. dept. soc. sci, Oral Roberts Univ, 64-68; RETIRED. Chmn. dept. hist. & govt, Calvin Coolidge Col, 34-40; specialist, Mil. Intel, D.C, 46-48. U.S.A, 41-46, Col. Fel. Sociol. Asn; Soc. Int. Law; Nat. Coun. Family Rel. America's trade equality policy; decrease in male dominance or as respected head of family leads to divorce, juvenile delinquency and some form of mental illness. Address: 5742 S. Victor, Tulsa, Okla. 74105.

DAVIS, DR. J. SANFORD, b. New York, N.Y, July 20, 23; m. 54; c. 3. PSYCHOLOGY. A.B, N.Y. Univ, 44, A.M, 46, Ph.D.(psychol), 49. Res. dir. Develop. Res. Inst, 49-51; head human factors sect, Off. Naval Res, 51-52, res. br, 52-54, communication res. div, 54-55; DIR, GROVE SCH, 56- Chief psychologist, Brookdale Hosp, Brooklyn, N.Y, 47-57. Fel. AAAS; Psychol. Asn. Clinical psychology; education administration; mass communication. Address: Grove School, Copse Rd, Madison, Conn. 06443.

DAVIS, PROF. JAMES ALLAN, b. Chicago, Ill, Nov. 2, 29; m. 50; c. 3. SOCIOLOGY. B.S, Northwestern, 50; M.S, Wisconsin, 52; Ph.D.(sociol), Harvard, 55. Res. assoc, sch. pub. health, Harvard, 54-56; asst. prof. sociol, Yale, 56-57; from asst. prof. to assoc. prof. sociol. & sr. study dir. nat. opinion res. center, Univ. Chicago, 57-67; PROF. SOCIOL, DARTMOUTH COL, 67- Sociol. Asn. Survey analysis; social psychology. Publ: Stipends and spouses; co-auth, Great books and small groups; auth, Great aspirations, Aldine, 64. Address: Dept. of Sociology, Dartmouth College, Hanover, N.H. 03755.

DAVIS, DR. JAMES C, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DAVIS, PROF. JAMES HENRY, b. Effingham, Ill, Aug. 6, 32; m. 54; c. 2. PSYCHOLOGY. B.S, Illinois, 54; M.A, Mich. State, 58; Nat. Sci. Found. summer fel, 60, Ph.D, 61. Asst. instr. PSYCHOL, Mich. State, 59-60; instr, Miami (Ohio), 60-61, asst. prof, 61-64, assoc. prof, 64-66; VIS. ASSOC. PROF, Yale, 66-67; ILLINOIS, URBANA, 67- Prin. investr, U.S. Air Force res. contracts, 62-66 & Nat. Sci. Found. res. grant, 67-69. U.S.A, 54-56, 1st Lt. AAAS; Psychol. Asn. Individual and group problem solving; intermember communication in groups and organizations. Publ: Co-auth, Success and speed of problem solving by individuals and groups, Psychol. Rev, 62; co-auth, Analysis of problems and prediction of group problem solving, J. Abnorm. & Soc. Psychol, 63; auth, The preliminary analysis of group structure, Psychometrika, 64. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61801.

DAVIS, PROF. JAMES H(ENRY), b. Seattle, Wash, Feb. 15, 14; m. 39; c. 1. BUSINESS MANAGEMENT. B.S, Missouri, 37; M.B.A, Ohio State, 40, fel, 41-42, 46-47, Ph.D, 47. Instr. BUS. ORGN, OHIO STATE, 47, asst. prof, 47-50, assoc. prof, 50-57, PROF, 57- U.S.A, 42-46, Maj. Mkt. Asn.(award, 48). Sales management; time study of salesmen; introduction to business. Publ: Handbook of sales training; co-auth, Sales management. Address: Dept. of Business Administration, Ohio State University, Columbus, Ohio 43210.

DAVIS, DR. JAMES LESLIE, b. Trenton, N.J, July 13, 36; m. 58; c. 1. GEOGRAPHY. B.A, Marshall, 57, M.A, 57; Woodrow Wilson fel, Northwestern, 57-58, Cokesbury fel, 58-60, Ph.D.(geog), 64. Chmn. dept. geog, Elmhurst Col, 60-64; assoc. prof, WESTERN KENTUCKY, 64-67, PROF. & HEAD DEPT. GEOG. & GEOL, 68-, acting head dept, 67-68. Lectr, urban mass transit inst. mgt. execs, fed. dept. housing & urban develop, West Virginia Univ, summer, 67. Consult, Encyclop. Britannica Jr, 61-67. U.S.A.R, 58-65, 1st Lt. Asn. Am. Geog. Urban transportation and city and regional planning. Publ: The elevated system and the growth of northern Chicago, Northwestern, 65; North America, 64 & Transportation, 67, Encyclop. Britannica, Jr. Address: Dept. of Geography & Geology, Western Kentucky University, Bowling Green, Ky. 42101.

DAVIS, DR. JAMES WARREN, b. Chillicothe, Mo, Sept. 14, 35; m. 63; c. 1. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Harvard, 57; Metrop. Community fel. & M.P.A, Michigan, 62, Brookings Inst. fel, 63, Ph.D.(polit. sci), 64. Asst. prof. POLIT. SCI, Wisconsin, Madison, 64-68; ASSOC. PROF, WASHINGTON (ST. LOUIS), 68- Consult, Nat. Adv. Cmn. Selective Serv, 66-67. U.S.A, 57-60. AAAS; Polit. Sci. Asn; Soc. Pub. Admin. Management of research organizations; science and government; urban problems; developing nations; conscription; traffic safety. Address: Dept. of Political Science, Washington University, St. Louis, Mo. 63130.

DAVIS, PROF. JAMES WILLIAM, b. Anderson, Tex, Dec. 21, 08; m. 33; c. 3. POLITICAL SCIENCE. B.A, Agr. & Mech. Col, Tex, 28; M.A, Texas, 31, Ph.D, 40. Teacher, Victoria High Sch, 29-30; Coleman High Sch, 31-32; prin. & teacher, Lometa High Sch. 32-36; instr. GOVT, Texas, 36-38; TEX. TECH. COL, 38-40, asst. prof, 40-42, assoc. prof, 42-44, PROF. & HEAD DEPT, 44- Consult, Tex. Res. League, 54-56. Mem. Tex. Econ. Cmn, 50-52; cmn. soc. sci, Tex. Ed. Agency, 57-58; State Adv. Cmn. Constitutional Revision, Tex, 57-61; v.pres, Nat. Collegiate Athletic Asn, 67- Polit. Sci. Asn. United States and Texas constitutional law; American government and politics. Publ: The abortive movement for constitutional revision, Crowell, 66; There shall also be a lieutenant governor, Inst. Pub. Affairs, 67; Essentials of Texas government, Tex. Tech. Bookstore, 67. Address: Dept. of Government, Texas Technical College, Lubbock, Tex. 79409.

DAVIS, DR. JEAN S(COBIE), Econ, Sociol, see 10th ed, Soc. & Behav. Vols.

DAVIS, DR. JEROME, b. Kyoto, Japan, Dec. 2, 91; U.S. citizen; m. 20; c. 3. SOCIOLOGY. A.B, Oberlin Col, 13, D.D, 33; Union Theol. Sem.(N.Y), 20; A.M, Columbia, 20, Gilder fel, 20-21, Ph.D, 22; LL.D, Hillsdale Col, 33; D.Litt, Fla. South. Col, 47. Asst. prof. sociol, Dartmouth Col, 21-24; Stark prof. practical philanthropy, Yale, 24-37; pres, Am. Fedn. Teachers, 36-39; lectr, New Sch. Soc. Res, 39-40; dir. prisoner of war camps in Can, World's Cmt, YMCA, 40-45; mem. faculty, Hiram Col, 47-48; dir, Mission to Europe, 49, 57, 59-61; vis. prof, Colorado, 50; Fisk, 54; Dosbisha Univ, Japan, 55; DIR, PROMOTING ENDURING PEACE FOUND, 56- Trustee, Oberlin Col, 45-57. V.pres. speakers res. cmt, UN, 56. Sociol. Asn. International relations; criminology; sociology of religion. Publ: World leaders I have known; My life adventure for peace, Citadel, 67; Contemporary social movements, introduction to sociology, capitalism and its culture. Address: Friends House, Sandy Spring, Md. 20860.

DAVIS, PROF. JOHN ANDERSON, b. Springfield, Ill, June 8, 24; m. 47; c. 1. ECONOMICS. B.A, Southern Methodist, 49, M.A, 50; Ph.D, Alabama, 57. Asst. state mgr, Inter-Ocean Ins. Co, Tex, 45-50; asst. prof. ECON, Lincoln Mem. Univ, 50-51; instr, Memphis State Col, 51-54; Alabama, 56-57; PROF. & HEAD DEPT, MISS. STATE, 57- Ed, Annals Acad. Miss. Economists, 65-Miss. rep. South. Regional Conf. Econ. Ed, 65- Am. Econ. Asn; Asn. Evolutionary Econ; Asn. Comp. Econ. The probable effect the existentialist movement will have on economic theory and policy. Publ: A second look at utilitarian economics, Miss. Bus. Rev; Some conflicts between economic and moral objectives of society, St. Mary's Univ. Occasional Paper, 66; co-auth. Evaluation of the teaching of economics in Mississippi high schools, Annals Acad. Miss. Economists, 67. Address: Dept. of Economics, Mississippi State University, P.O. Box JE, State College, Miss. 39762.

DAVIS, PROF. JOHN AUBREY, b. Washington, D.C, May 10, 12; m. 35; c. 2. POLITICAL SCIENCE. A.B, Williams Col, 33; fel. & A.M, Wisconsin, 34; Rosenwald fel. & Ph.D, Columbia, 50. Asst. prof. polit. sci, Lincoln (Pa), 36-48, prof, 48-49, asst. prof. govt, 51-52; vis. lectr. polit. sci, Ohio State, 50-51; assoc. prof. govt, City Col. New York, 53-57; cmnr, State Cmn. Discrimination, N.Y, 57-61; PROF. POLIT. SCI, CITY COL. NEW YORK, 61-, chmn. dept, 61-66. Asst. dir, State Cmn. Discrimination, N.Y, 42; dir. regional bd. sect, Wage Stabilization Bd, 51. Consult, off. personnel, U.S. Dept. State, 52. Dir. div. rev. & anal, President's Cmn. Fair Employ. Practice, 43-46; exec. dir, Am. Soc. African Culture, 57-, ed. African Forum, 65-; mem. exec. cmt. of bd, Legal Defense & Ed. Fund, Inc, Nat. Asn. Adv. Colored People, 64- Polit. Sci. Asn; Coun. For. Rels. American national government; public administration; Africa. Publ: Regional organization of the Social Security Administration; sr. ed, Southern Africa in transition. Praeger, 66. Address: 25 Wood Place, New Rochelle, N.Y. 10801.

DAVIS, JOHN CORDON, b. South Olive, Ohio, July 2, 04; m. 30; c. 5. ECONOMICS. B.S, Ohio State, 30, M.A, 31. Instr. econ, Mich. State, 31-34, asst. prof, 35-43, assoc. prof, 43-44; chief employ. stabilization sect, War Manpower Cmn, D.C, 44; v.chmn. shipbldg. cmn, War Labor Bd, 45; dir. labor div, Nat. Housing Agency, 46; top economist, Coun. Econ. Adv, 47-53; consult, 53-55; consult, economist, Nat. Sci. Found, 56-60; MANPOWER ADV, U.S. DEPT. LABOR, 60-, notable career serv. award, 67. Econ. Asn. National economic policy; manpower; wages. Publ: Co-auth, Wages and productivity, Harvard Rev. Econ. & Statist; Productivity trends and economic implications, Indust. Rels. Res. Asn. Pub; Should unions incorporate?, Can. Forum. Address: 8 Diana St, New Port Richey, Fla. 33552.

DAVIS, DR. JOHN DWELLE, b. Poughkeepsie, N.Y, Apr. 7, 28; m. 54; c. 4. EXPERIMENTAL PSYCHOLOGY. A.B, Brown, 54; M.A, Illinois, 56, Ph.D. (psychol), 62. Res. asst. PSYCHOL, Illinois, 54-58; asst. prof, American Univ. Beirut, 58-61; Yale, 61-65; ASSOC. PROF, ILLINOIS, CHICAGO, 65-U.S.A.F, 48-52, S/Sgt. AAAS; Psychol. Asn; Psychonomic Soc. Experimental psychology of learning and motivation; physiological psychology of motivation. Publ: Magnitude of reinforcement and consummatory behavior, 58, Fear and pain: their effect on self-injection of amobarbital sodium by rats, 63 & Food intake controlled by a blood factor, 67, Science. Address: 1833 Asbury Ave, Evanston, Ill. 60201.

DAVIS, DR. JOHN EISELE, b. New Britain, Pa, Aug. 16, 96; m. 20; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, Washington Col, 18, M.A, 21, Sc.D. (ment. rehab), 38, hon. D.Sc, 51. Chief corrective ther, Vet. Admin, 40-51; EXEC. DIR, ASN. PHYS. & MENT. REHAB, 61- Lectr, Columbia; N.Y, Univ; Wash. Col; Springfield Col; Fulbright prof, Oslo, Norway, 61. Consult. corrective ther, Vet. Admin, 60- Mem, Joint Cmn. Ment. Illness & Health, 58. U.S.A, 18-19. Mental rehabilitation. Publ: Principles and practices of rehabilitation: Chapter, In: Occupational therapy, 57; Chapter, In: Therapeutic exercise, Licht, 58. Address: 105 St. Lawrence St, Rehoboth Beach, Del. 19971.

DAVIS, DR. JOHN E(ISELE), JR, b. Perry Point, Md, May 22, 25; m. 49; c. 1. PSYCHOLOGY. B.A, Maryland, 49; M.A, George Washington, 51; Ph.D, Kentucky, 55. Asst. chief clin. psychol. serv, Vet. Admin. Hosp, Lexington, Ky, 56-57, dir. psychother, 57-59, chief clin. psychol. serv, 59-62, ASST. DIR. PSYCHIAT. EVAL. PROJ, MT. ALTO VET. ADMIN. HOSP, WASH, D.C, 62-, CHIEF OUTPATIENT PSYCHOL, DEPT. MED. & SURG, PSYCHOL. DIV, VET. ADMIN. CENT. OFF, 65- U.S.N, 43-46. Psychol. Asn. Psychotherapy and rehabilitation, particularly the mentally ill; evaluation of extended care services and outpatient treatment. Publ: Discriminating mental patients from normals, Psychol. Reports; Psychology and rehabilitation, J. Ment. & Phys. Rehab; Psychiatric role of PM & R in the third revolution, Ment. Hyg, 64. Address: Veterans Administration Central Office, 116 C, 810 Vermont Ave. N.W, Washington, D.C. 20420.

DAVIS, DR. JOHN EVAN, JR, b. Ashland, Pa, Apr. 18, 08; m. 33; c. 1. PSYCHIATRY. B.S, Pa. State, 30; M.D, Jefferson Med. Col, 33. Intern, Cooper Hosp, Camden, N.J, 33-34; res. psychiat, N.J. State Hosp, Trenton, 35-38, chief male serv, 38-41, clin. dir, 46-47; asst. chief out-patient psychiat. serv, cent. off, Vet. Admin, 48-50; med. dir, East. Pa. Psychiat. Inst, 50-58; cmnr. ment. health & dep. secy. pub. welfare, Commonwealth, Pa, 58-63; PROF. PSYCHIAT, JEFFERSON MED. COL, 63- Chief psychiat. consult, serv, Phila. Gen. Hosp, 50-56; asst. prof, Jefferson Mex. Med. Col, 54-63. Mem, Gov. Cmt, Handicapped, 58-; prfnl. adv. coun, Nat. Asn. Ment. Health, 60-; Gov. Cmt. Hosp. Planning, 63-; exec. cmt. & chmn. subcmt. tech. rev. & prog. design, Gov. Comprehensive Ment. Health Plan, 63-65. A.U.S, 41-46, Col. Fel. Psychiat. Asn; Am. Med. Asn. Publ: Relationship of adolescent problems to adulthood, Ment. Health Bull, 7/53; co-auth, Factors in the success of a public mental health program, Am. J. Psychiat, 10/59; auth, Evaluation and planning for the geriatric-psychiatric patient, Geriatrics, 3/63. Address: Dept. of Psychiatry, Jefferson Medical College, 1025 Walnut St, Philadelphia, Pa. 19107.

DAVIS, DR. JOHN MARCELL, Psychiat, see Suppl. II to 11th ed, Phys. & Biol. Vols.

DAVIS, DR. J(OHN) TAIT, b. Toronto, Ont, Jan. 18, 33; m. 58; c. 1. URBAN & ECONOMIC GEOGRAPHY. B.A, Toronto, 55; M.A, George Washington, 58; fel, Clark, 58-59, Ph.D.(urban geog), 60. City planner, Oshawa, Ont, Can, 55-56; asst. prof. geog, George Washington, 59-62, assoc. prof, 62-66; chmn. dept. geog. & regional sci, 64-66; assoc. prof. geog, York (Ont), 66-67; SR. GEOGR, CENT. ECON. DEVELOP. ORGN, INC, 67-, consult, 65-67. Prin. investr, pkwy. impact study, Nat. Park Serv, 61-62; sr. scientist, urban planning data systs. proj, Md. Nat. Capital Park & Planning Cmn, 61-62; consult, econ. develop, div, Litton Industs, Inc, 65. Asn. Am. Geog; Can. Asn. Geog. Methods of measuring and evaluating the impact of transportation systems on land capabilities; economic development of Appalachia and Indonesia; urban housing. Publ: Parkways values and development in Washington metropolitan region, Hwy. Res. Bd, Res. Record, 63; Middle class housing in the central city, Econ. Geog, 7/65. Address: Central Economic Development Organization, Inc, Suite 216, 1825 Connecticut Ave. N.W, Washington, D.C. 20009.

DAVIS, PROF. J(OSEPH) S(TANCLIFFE), b. Frazer, Pa, Nov. 5, 85; m. 16; c. 3. ECONOMICS. A.B, Harvard, 08, Ph.D.(econ), 13; L.H.D, Columbia, 54. Instr. econ, Harvard, 13-17, asst. prof, 17-21; dir. FOOD RES. INST, STANFORD, 21-52, prof. ECON. RES, 38-52, EMER. PROF. & EMER. DIR, 52- Asst. statistician, Am. Shipping Mission, Eng, 18-19; statistician, Allied Maritime Transport Coun, 18-19; tech. asst, Dawes Cmt, 24; Soc. Sci. Res. Coun, 24, 46-48; chief economist, Fed. Farm Bd, 29-31; mem. coun. econ. adv, Exec. Off. President, 55-58. Consult, Brookings Inst, 33-36. Mem. food & nutrit. bd, Nat. Res. Coun, 40-45, agr. bd, 45-48; bd. trustees, Inst. Pac. Rels, 41-47. Econ. Asn.(pres, 44); fel. Statist. Asn.(v.pres, 27; pres, 36); fel. Agr. Econ. Asn.(pres, 36); Royal Econ. Soc. American agricultural policy; international commodity agreements; consumption economics; population. Publ: Essays in the earlier history of American corporations; Population upsurge in the United States; On agricultural policy, 1926-1938. Address: 691 Mirada Ave, Stanford, Calif. 94305.

DAVIS, DR. JUDITH BLAKE, b. New York, N.Y, May 3, 26; m. 54; c. 2. DEMOGRAPHY. B.S, Columbia, 50, Dykeman Inst. scholar, 50, Pop. Coun. fel, 54, Ph.D. (sociol), 61. Acting asst. prof. DEMOG, sch. pub. health, CALIFORNIA, BERKELEY, 62-63, asst. prof, 63-65, chmn. group, 65-67, ASSOC. PROF, 66-, CHMN. DEPT, COL. LETTERS & SCI, 67-, lectr. dept. sociol, 57, dept. speech, 61-62. Lectr, sch. nursing, California, San Francisco, 57-59; Prog. dir, Nat. Insts. Health res. grant demog, 64; prin. investr, Ford Found. res. grant, 67-70. Asn. Vital Records & Pub. Health Statist; Pop. Asn; fel. Sociol. Asn; Pub. Health Asn; Asn. Pub. Opinion Res; Int. Union Sci. Study Pop. Comparative demographic analysis of human fertility and family structure; demographic aspects of mortality; population theory. Publ: Family structure in Jamaica: the social context of reproduction, Macmillan, 61; Ideal family size among white Americans: a quarter of a century's evidence, Demography, 1: 154-173; Income and reproductive motivation, Pop. Studies, 11/67. Address: Dept. of Demography, 201 Bldg. T-8, University of California, Berkeley, Calif. 94720.

DAVIS, DR. JUNIUS AYERS, b. Raleigh, N.C, Feb. 4, 25; m. 46; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, North Carolina, 46; A.M, Columbia, 50, Ph.D, 56. Asst. guid, teachers col, Columbia, 50-51; res. assoc. guid, Horace-Mann Lincoln Inst. Sch. Experimentation, 51-52; asst. dir. counseling serv, Princeton, 52-54; from instr. to asst. prof. psychol, Emory, 54-57; dir. testing & guid, bd, regents, Univ. Syst. of Ga, 57-58; grad. dean, Womans Col, North Carolina, 58-61; asst. to pres. psychol. res, ED. TESTING SERV, 61-64, head higher ed. res. group, 63-67, DIR, SOUTHEAST. OFF, 67- Lectr, teachers col, Columbia, 65-67; res. prof, Duke, 67- Consult.Vet. Admin, 59-; Regional Ed. Lab. for Carolinas & Virginia, 67-U.S.N.R, 42-46, 48-49, Lt.(jg). Psychol. Asn; Personnel & Guid. Asn. Prediction, measurement and evaluation of achievement in college; vocational and educational guidance; dimensions of diversity in higher education institutions; social forces affecting higher education; college impact. Publ: Non-apparent limitations of normative data, Personnel & Guid. J; co-auth, Public and private school graduates in college, J. Teacher Ed; auth, What college teachers value in students, Col. Bd. Rev, spring 65. Address: Educational Testing Service, Southeastern Office, Mutual Plaza, Durham, N.C. 27701.

DAVIS, PROF. KEITH, b. Thorndale, Tex, July 3, 18; m. 44; c. 2. MANAGEMENT, HUMAN RELATIONS. B.B.A, Texas, 39, M.B.A, 41; Ph.D.(mgt),

Ohio State, 52. Personnel specialist, Howard Hughes Industs, Tex, 40-42; from instr. to assoc. prof. mgt, Texas, 46-48, 49-51; instr. bus. orgn, Ohio state, 48-49; from assoc. prof. to prof. MGT, Indiana, 51-58; PROF, ARIZONA STATE, 58-, chmn. dept, 58-63. Vasser Woolley vis. prof, Ga. Inst. Tech, spring 67. Consult, 47- U.S.A.A.F, 42-46, Lt. Mgt. Asn; Sociol. Asn; Indust. Rels. Res. Asn; Soc. Appl. Anthrop; Soc. Adv. Mgt.(Human Rels. award, 66); Inst. Mgt. Sci. Management development; organizational behavior. Publ: Co-auth, Readings in human relations, 2nd ed, 64 & Business and it's environment, 66, McGraw; auth, Human relations at work, McGraw 3rd ed, 67. Address: Dept. of Management, Arizona State University, Tempe, Ariz. 85281.

DAVIS, DR. KEITH E, b. Clifton, N.C, May 15, 36; div; c. 3. SOCIAL PSYCHOLOGY. B.A, Duke, 58, Ph.D.(psychol), 62. Instr. PSYCHOL, Princeton, 61-62; asst. prof, COLORADO, 62-67, ASSOC. PROF, 67- Res. grants, U.S. Army Med. Res. & Develop. Commaild, 65-67, Nat. Sci. Found, 65-68, Nat. Inst. Ment. Health, 66-68. Consult. dir, soc. sci. div, Oak Ridge Nat. Labs, 65-68. Assoc. mem. Psychol. Asn; assoc. mem. Sociol. Asn. Social psychology; interpersonal relations; psychology of drug use; drug effects on cognitive and social skills. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

DAVIS, PROF. KENNETH REXTON, b. Glendive, Mont, Aug. 15, 21; m. 45; c. 2. BUSINESS ADMINISTRATION. Ph.B, Wisconsin, 46, M.B.A, 47; Ph.D. (bus), Chicago, 55. Instr. BUS. ADMIN, Wisconsin, 47-49; asst. prof, North Carolina, 49-53; DARTMOUTH COL, 53-57, PROF, 57- U.S.A.F, 43-45, Maj. Mkt. Asn. Marketing executive management responsibilities. Publ: Furniture marketing, Univ. North Carolina, 57; Marketing management, 2nd ed, Ronald, 66; co-auth, Advertising industry, Asn. Nat. Advertisers, 58. Address: Dept. of Marketing, Dartmouth College, Hanover, N.H. 03755.

DAVIS, PROF. K(INCHLOE) C(ARMACK), b. Sulphur Rock, Ark, Nov. 24, 09; m. 32; c. 2. AGRICULTURAL & LAND ECONOMICS. B.S, Okla. State, 37, M.S, 41; Ph.D, Wisconsin, 62. Instr. mkt, Okla. State, 37-42, res. economist farm mgt, 42-43; statistician agr. mkt. serv, U.S. Dept. Agr, 43-44; asst prof. farm mgt, OKLA. STATE, 44-62, ASSOC. PROF. AGR. ECON, 62- Agr. Econ. Asn; Econ. Asn. Cotton marketing; farm management; land tenure. Publ: Capital requirements and returns from ground-water resources in Oklahoma; Farm characteristics and production practices associated with commercial egg production in Oklahoma. Address: Dept. of Agricultural Economics, Oklahoma State University, Stillwater, Okla. 74075.

DAVIS, PROF. KINGSLEY, b. Tex, Aug. 20, 08; m. 54; c. 3. SOCIOLOGY, DEMOGRAPHY. A.B, Texas, 30, M.A, 32; M.A, Harvard, 33, Ph.D.(sociol), 36. Asst. prof. sociol, Clark, 36-37; assoc. prof. & head dept, Pa. State, 37-42; res. assoc, off. pop. res, Princeton, 42-48, assoc. prof. anthrop. & sociol, 44-48; sociol, grad. faculty polit. sci, Columbia, 48-52, prof, 52-55, dir. bur. appl. soc. res, 49-52; PROF. SOCIOL, CALIFORNIA, BERKELEY, 55-, DIR. INT. POP. & URBAN RES, 57- Fel, Center Adv. Study Behav. Sci, 56-57; Nat. Sci. Found. sr. res. fel, 64-65. Consult, 46- Mem. div. behav. sci, Nat. Acad. Sci-Nat. Res. Coun, 63, chmn, div. behav. sci, Nat. Res. Coun, 66-68. Nat. Acad. Sci; fel. AAAS; Sociol. Asn.(v pres, 55, pres, 59); fel. Statist. Asn; Philos. Soc; Pop. Asn.(pres, 62-63); Am. Acad. Arts & Sci; Eugenics Soc. Population; urbanization; family. Publ: Human Society; Population of India and Pakistan; World's metropolitan areas. Address: 199 Hillcrest Rd, Berkeley, Calif. 94705.

DAVIS, PROF. LANCE EDWIN, b. Seattle, Wash, Nov. 3, 28; m. 55; c. 1. ECONOMICS. B.A, Washington (Seattle), 50; Ph.D, Hopkins, 56. Asst. prof. ECON, PURDUE, 56-59, assoc. prof, 59-62, PROF, 62- Ford Found. Faculty Res. grant, 59-60. U.S.N, 46-48, 51-52. Econ. Asn; Am. Econ. Hist. Asn; Brit. Econ. Hist. Soc. Economic history; problems relating to the development of institutions designed to aid capital accumulation and mobilization in the American economy. Publ: Co-auth, Savings bank of Baltimore; auth, New England textile mills and the capital markets, J. Econ. Hist; co-auth, Dollar sterling exchange, Econ. Hist. Rev. Address: Dept. of Economics, Purdue University, Lafayette, Ind. 47907.

DAVIS, DR. LAWRENCE BENNION, U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DAVIS, DR. LAWRENCE S, b. Missoula, Mont, July 27, 34; m. 59; c. 3. FOREST ECONOMICS. B.S, Michigan, 56, M.F, 60; Ph.D.(agr. econ), California, Berkeley, 64. Res. forester, U.S. Forest Serv, 56-57; res. specialist, California, Berkeley, 60-64; asst. prof. FOREST ECON, VA. POLYTECH, 64-67, ASSOC. PROF, 67- U.S.A, 57-59, 61-62. Soc. Am. Foresters. Resource policy; recreation economics. Publ: The economics of wildfire protection with emphasis on fuel break systems, Calif. Div. Forestry, 64; The separation of facts and values in resource policy analysis, J. Forestry, 9/67; Dynamic programming for deer management planning, J. Wildlife Mgt, 10/67. Address: Dept. of Forestry & Wildlife, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

DAVIS, DR. LESLIE M(ARTZ), b. Arcadia, Ind, Apr. 2, 96; m. 21; c. 2. GEOGRAPHY. A.B, Indiana, 20; M.B.A, Northwestern, 26; Ph.D.(geog), Chicago, 35. Prof. bus. & geog, Kanawha Col, 33-34; asst. geog, Tenn. Valley Authority, 35; dean, Rider Col, 35-39; assoc. prof. geog, Marshall, 39-42, coordinator col. training prog, U.S. Air Force, 42, prof. geog; 42-66; RETIRED. U.S.A, 17-19. Urban and world political geography. Address: Box 65, West Hamlin, W.Va. 25571.

DAVIS, DEAN LODA MAE, b. Porter, Wash, Jan. 11, 97. ECONOMICS, PSYCHOLOGY. B.S, California, 23, Flood fel, 30-31, M.S, 33. Instr. consumer ed. & bus, San Mateo Jr. Col, 32-40; consult. consumer probs, Off. Price Admin, 40-42; sr. agr. economist, War Food Admin, 43; econ. analyst, For. Econ. Admin, 44; from chief distrib. to coordinator relief progs. for Austria, UNRRA, D.C. & Austria, 44-47; writer, 47-51; asst. prof. soc. sci, assoc. dean students & dean women, CALIFORNIA, RIVERSIDE, 53-64, EMER. ASST. PROF. SOC. SCI, 64-, EMER. DEAN WOMEN, 66- Mem. Nat. Nutrit. Adv. Cmt, 41-42. AAAS; N.Y. Acad. Sci; Fed. Am. Sci. Client centered counseling; psychological behavior of groups; Samoan personality and family. Publ: Child health services, Med. Woman's J; Dr. Martha M. Eliot and her plans for world health, In: Christian Advocate; Whats wrong with our abortion laws, In: Everybody's Digest. Address: Dept. of Psychology, University of California, Riverside, Calif. 92502.

DAVIS, PROF. LOUIS E(LKIN), Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

DAVIS, PROF. LYNN H(ERMAN), b. Venice, Utah, Aug, 4, 24; m. 45; c. 8. AGRICULTURAL ECONOMICS. B.S, Utah State, 49, M.S, 53; Johnson fel, Oregon State, 57-59, Ph.D.(agr. econ, statist), 61. Asst. county exten. agent, Nevada, 48-50; asst. AGR. ECON, UTAH STATE, 50-52, instr, 52-55, asst. prof, 55-57, 59-60, assoc. prof, 60-67, PROF, 67- U.S.N, 45-46. Farm Econ. Asn. Livestock marketing. production economics. Publ: Production and marketing of broilers by contract with applications to other Oregon agricultural enterprises; Marketing aspects of fattening lambs in Colorado, Idaho, Montana, New Mexico and Utah; Maximizing incomes from sevier County farms, Utah Agr. Exp. Sta. Bull, 3/65. Address: Dept. of Agricultural Economics, Utah State University, Logan, Utah 84321.

DAVIS, DR. MICHAEL M(ARKS), b. New York, N.Y, Nov. 19, 79; m. 07; c. 3. ECONOMICS. A.B, Columbia, 00, fel, 03-05, Ph.D, 06; hon. L.H.D, Howard, 66. Secy, People's Inst, N.Y, 04-09; dir, Boston Dispensary, 10-20; exec. secy, Cmt. Dispensary Develop, N.Y, 20-27; private practice, 20- Lectr, Columbia, 22-27; dir. med. servs, Julius Rosenwald Fund, Ill, 28-36; prof. lectr, Chicago, 33-37; Consult, Soc. Security Bd, 38-52. Ed, Med. Care, 41-44. Chmn, Cmt. Res. Med. Econ, 37-45; exec. cmt, Cmt. Nation's Health, D.C, 46- AAAS; fel. Pub. Health Asn; Sociol. Asn. Medical economics. Publ: Medical care for tomorrow. Address: 3800 Williams Lane, Chevy Chase, Md. 20015.

DAVIS, DR. MILTON S, Med. Sociol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

DAVIS, DR. MORRIS, b. Boston, Mass, Oct. 9, 33; m. 58; c. 1. POLITICAL SCIENCE. A.B, Harvard Col, 54; Ford Found. fel, Princeton, 54-55, South-East Club fel, 55-56, Procter fel, 56-57, A.M. & Ph.D, 58. Asst, center int. studies, Princeton, 58; instr. POLIT. SCI, Wisconsin, 58-59; res. training fel, Soc. Sci. Res. Coun, 59-60; asst. prof, Dalhousie, 60-62; Tulane, 62-64, ASSOC. PROF, 64-65; ILLINOIS, URBANA, 65- Res. grant, Can. Coun, 61; Atlantic Prov. Studies grants, 62, 63, 65; Soc. Sci. Res. Coun. grant-in-aid, summer, 63, U.S. Pub. Health Serv. res. grant, 64-67; Guggenheim fel, 67-68. Polit. Sci. Asn. Public opinion; interest groups; political theory and analysis; comparative political systems. Publ: Iceland extends its fisheries limits, Allen & Unwin, 63; Participant observers in Platonic cities, Midwest J. Polit. Sci, 64; Miesian beauty in behavioral research, Ethics, 67. Address: Dept. of Political Science, University of Illinois, Urbana, Ill. 61801.

DAVIS, DR. MORTON DAVID, Math, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DAVIS, PROF. N. F, b. Westpoint, Miss, Dec. 26, 24; m. 51; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Lincoln (Mo), 49; M.B.A, Washington (St. Louis), 52; John Hay Whitney fel, Indiana, 57, Danforth Found. fel, 59, Ph.D.(econ), 60. Asst. prof. econ, Tuskegee Inst, 52-60; PROF. BUS. & chmn. dept, Albany State Col, 60-62; prof, Atlanta, 62-67; PROF. & CHMN. DEPT, ALBANY STATE COL, 67- Summers, mem, case methods prog, bus. sch, Harvard, 65, Urban League fel, 67. U.S.A.F, 43-46, 50-51, S/Sgt. Econ. Asn. Case problems in business; personnel and labor relations. Address: Dept. of Business, Albany State College, Albany, Ga. 31705.

DAVIS, PROF. NORRIS G(ARLAND), b. Bartlett, Tex, Feb. 15, 16; m. 39; c. 2. JOURNALISM. B.J, Texas, 37, M.J, 38; Wisconsin, 41-43; Ph.D, Minnesota, 54. Reporter-ed, Caller-Times, Corpus Christi, Tex, 38-40; asst. prof, Agr. & Mech. Col, Tex, 40-41, 46-47; asst, Wisconsin, 41-43; asst. prof, Texas, 47-49; instr, Minnesota, 49-51; asst. prof, JOURNALISM, TEXAS, AUSTIN, 51-55, assoc. prof, 55-62, PROF, 62-, CHMN. DEPT, 65- Asn. Ed. Journalism; Int. Coun. Indust. Ed. News reporting; communications law. Publ: The press and the law in Texas, Univ. Texas, 56; co-auth, Modern journalism, Pitman, 62; Teenage readers for Texas newspapers, Pub. Affairs Reporting Prog, Univ. Texas, 61. Address: Dept. of Journalism, University of Texas, Austin, Tex. 78712.

DAVIS, PROF. OTTO ANDERSON, b. Florence, S.C, Apr. 4, 34. ECONOMICS. A.B, Wofford Col, 56; M.A, Virginia, 57, Ph.D.(econ), 60. Soc. Sci. Res. Coun. fel, GRAD. SCH. INDUST. ADMIN, CARNEGIE-MELLON UNIV, 59-60, asst. prof, 60-65, assoc. prof, 65-67, PROF, 67- Econ. Asn; Econometr. Soc; Statist. Asn; Polit. Sci. Asn; Opers. Res. Soc. Publ: Welfare economics and the theory of second best; A theory of the budgetary process; A mathematical model of policy formation in a democratic society. Address: Graduate School of Industrial Administration, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

DAVIS, PROF. PAUL C(HAFIN), b. Maupin, Ore, June 24, 08; m. 31; c. 1. PSYCHOLOGY. A.B, Seattle Pac. Col, 31; M.A, Southern California, 45, Ph.D.(psychol), 52; fel, Washington (Seattle), 45-47. Prin. & teacher, pub. schs, Wash, 32-37, sch. psychologist, 48-51; asst. psychol, Southern California, 51-52; assoc. prof, Wesleyan Col.(N.Y), 52-54, prof, 54-59, dir. guid, 52-59, prof. psychol. & dean, Los Angeles Pac. Col, 59-65; assoc. prof. PSYCHOL. & ED, CHAPMAN COL, 65-66, PROF. & DIR. EVE. COL. & SUMMER SESSION, 66- U.S.A.A.F, 41-45. AAAS; Psychol. Asn; Psychomet. Soc; Am. Sci. Affiliation. Statistical factor analysis of human abilities. Publ: Factor analysis of the Wechsler-Bellevue scale, Ed. & Psychol. Measurement. Address: Dept. of Psychology, Chapman College, 333 Glassell St, Orange, Calif. 92666.

DAVIS, PROF. PEARCE, b. Washington, D.C, Mar. 3, 08; m. 29; c. 2. ECONOMICS. B.S, Pennsylvania, 29; A.M, George Washington, 31; Ph.D.(econ), Harvard, 38. Instr. & tutor econ, Harvard, 34-38, head instr. & tutor, 38-

41; asst. prof, Hunter Col, 41-43; prin. economist, Regional War Labor Bd, N.Y, 43; br. chief & asst. dir, Nat. Wage Stabilization Div, Nat. War Labor Bd, D.C, 43-44, pub. mem, Wage Adjust. Bd, 44-45, chmn. & pub. mem, Nat. Tel. Cmn, 45; Regional Wage Stabilization Bd, Mass, 46; PROF. ECON. & CHMN. DEPT. BUS. & ECON, ILL. INST. TECH, 46-, dir. dept. indust. eng, 46-53. Vis. lectr, Clark, 40-41. Consult, Nat. Wage Stabilization Bd, 51. Pub. mem. & acting chmn, Nat. Meat Packing Cmn, Ill, 46-47. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit.(v.pres, 68-). Labor management relations; arbitration; industrial organization. Publ: Co-auth, Modern labor economics; auth, Development of the American glass industry; co-ed, Labor dispute settlements in the telephone industry. Address: Dept. of Business & Economics, Illinois Institute of Technology, Chicago, Ill. 60616.

DAVIS, DR. PRESTON, b. New York, N.Y, Dec. 5, 19; m. 50; c. 2. PSYCHOLOGY. B.A, Wesleyan, 41; A.M, Boston, 55, Ph.D.(counseling psychol), 61. Counseling psychologist, Vet. Admin, 61-62; CHIEF PSYCHOL, MEDFIELD STATE HOSP, 63- Investr, Medfield Found, 64- U.S.A.A.F, 41-46, 2nd Lt. Psychol. Asn. Perception without awareness; analysis of prose style. Publ: Esperanto kaj la teorio de komunikado; Discrimination without awareness in a psychophysical task, Perceptual & Motor Skills, 64. Address: 42 Village Lane, Needham, Mass. 02192.

DAVIS, PROF. RALPH C(URRIER), b. Mohawk, N.Y, Dec. 24, 94. BUSINESS MANAGEMENT. M.E, Cornell, 16, A.M, Ohio State, 26. Asst. prof, Ohio State, 23-27; head dept. mgt, Gen. Motors Inst, Gen. Motors Corp, 27-30; assoc. prof. BUS. ORGN, OHIO STATE, 30-36, from prof. to EMER. PROF, 36- Sig.C, U.S.A, 18; U.S.N, 18-19, U.S.A.A.F, 42-46, Col. Acad. Mgt. (pres, 47-48); Mgt. Asn; Soc. Adv. Mgt.(v.pres, 42, 46). Publ: Principles of business organization and operation; Fundamentals of top management; Industrial organization and management. Address: 1994 N. Edgemont Rd, Columbus, Ohio 43212.

DAVIS, DR. RALPH EDMOND, b. Pittsburgh, Pa, Aug. 3, 22; m. 50; c. 3. PSYCHOLOGY. B.A, Duquesne, 49; M.A, Kent State, 51; Ph.D.(clin. psychol), Ottawa (Can), 61. Chief psychologist, Woodville State Hosp, Pa, 51-56; personnel asst. ed. training, Aluminum Co. Am, 56-58; DIR. PSYCHOL. SERVS, CLARKS SUMMIT STATE HOSP, 58- Lectr, Scranton, 59- Private practice, 62- U.S.N, 42-46. Psychol. Asn; Geront. Soc. Personality of the aged; self concept theory of personality. Address: 251 E. Grove St, Clarks Summit, Pa. 18411.

DAVIS, PROF. RICHARD M(ALONE), b. Hamilton, N.Y, June 2, 18. ECONOMICS. A.B, Colgate, 39; A.M, Cornell, 41, Ph.D, 49. Instr. ECON, Lehigh, 41-47, asst. prof, 47-52, assoc. prof, 52-54; OREGON, 54-62, PROF, 62- U.S.A, 42-46. Am. Econ. Asn; Royal Econ. Soc. Theory and history of thought. Publ: The current state of profit theory, Am. Econ. Rev; Re-examination of the speculative demand for money, Quart. J. Econ; Income distribution in a two-sector economy, Oxford Econ. Papers. Address: Dept. of Economics, University of Oregon, Eugene, Ore. 97403.

DAVIS, PROF. ROBERT A(LEXANDER), b. Bullock, N.C, Apr. 5, 00; m. 26; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, North Carolina, 22, fel, 22-23, A.M, 23; Ed.M, Harvard, 27, Ed.D, 28. Registr. & prof. ed, Judson Col, 25-26; assoc. prof; Baylor, 26-28; asst. prof, Colorado, 28-31, assoc. prof, 31-35, PROF, 35-49; ED. PSYCHOL. & ED. RES, GEORGE PEABODY COL, 49- Psychoed. adv. to commandant, Command & Staff Univ, 48-49. Psychol. Asn; Nat. Coun. Measurement in Ed. Psychology of learning; educational research; measurement and evaluation. Publ: Educational psychology; co-auth, Educational research and appraisal; auth, Learning in the schools. Address: Dept. of Education, George Peabody College, Nashville, Tenn. 37203.

DAVIS, DR. ROBERT C(AMPBELL), b. Madison, Wis, Aug. 29, 25; m. 52. SOCIAL PSYCHOLOGY, SOCIOLOGY. B.A, Wisconsin, 49, M.A, 50, fel, 50-51; fel, Michigan, 51-52, Ph.D.(soc. psychol), 56. Asst. study dir, surv. res. center, Michigan, 52-56, study dir, 56-58, lectr. psychol, 58; asst. prof. SOCIOL, Wisconsin, 58-61; CASE WESTERN RESERVE, 61-66, ASSOC. PROF, 66- Mem. bd. adv, Arch. Hist. Am. Psychol, 65- Sociol. Asn; Psychol. Asn; Hist. Sci. Soc. History of behavioral sciences; sociology of science; survey research methods. Address: Dept. of Sociology, Case Western Reserve University, Cleveland, Ohio 44106.

DAVIS, PROF. ROBERT HARLAN, b. Grand Rapids, Mich, Dec. 21, 22; m. 47; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Mich. State, 48, M.A, 50, Ph.D. (exp. psychol, philos. of sci), 53. Asst. prof. exp. psychol, Allegheny Col, 52-55; assoc. soc. scientist. systs. develop. div, Rand Corp, 55-59; consult, Romo-Wooldridge Corp, 59, human factors scientist, Denver Systs. Labs, 59-60; sr. human factors scientist. arms control, Syst. Develop. Corp, 60-65; PROF. PSYCHOL. & DIR. LEARNING SERV, MICH. STATE, 65- Consult Ford Motor Co, 65-; U.S. Army Spec. Opers. Res. Off, 65- Psychol. Asn; Human Factors Soc; Inst. Aeronaut. & Astronaut. Human performance in large scale man-machine systems; evaluation, design and development of systems; arms control; learning and motivation. Publ: Effect of drive reversal on latency, amplitude, and activity, J. Exp. Psychol; Effect of stimulus class on the problem solving behavior of schizophrenics and normals, J. Abnorm. & Soc. Psychol; Evaluating system performance, In: Psychological principles in system development. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

DAVIS, PROF. ROBERT TYRRELL, b. New York, N.Y, Aug. 24, 20; m. 46; c. 3. MARKETING, BUSINESS MANAGEMENT. B.A, Harvard, 42, M.B.A, 46, D.C.S, 56. Asst. prof. bus, St. Lawrence, 46-48; Dartmouth Col, 48-52; bus. sch, Harvard, 52-57; prof. MKT, Mgt. Develop. Inst, Switz, 57-58; assoc. prof, BUS. SCH, STANFORD, 58-61, PROF, 61-, DIR. EXEC. DEVELOP. PROG, 61- Bus. & Indust. consult. V.pres, Varian Assocs, 64-66. Mem. bd. dirs, Omark Industs, 62-; Blitz Weinhard, 64-; Melabs, 67- U.S.A, 43-46, Sgt. Mkt. Asn; Econ. Asn. Field sales management, especially behavior, performance and development of local managers; motivation of salesmen and impact on behavior of non-financial incentives. Publ: Performance and development of field sales managers; Changing pattern of Europe's grocery trade; co-auth, Sales management: text and cases. Address: Graduate School of Business, Stanford University, Stanford, Calif. 94305.

DAVIS, DR. ROGER T(ODD), Psychol, see 11th ed, Phys. & Biol. Vols.

DAVIS, DR. STANLEY E, Psychol, see 10th ed, Soc. & Behav. Vols.

DAVIS, DR. STANLEY W(ARBURTON), b. Elizabeth, N.J, Mar. 19, 20; m. 42; c. 2. PSYCHOLOGY. A.B, Cornell, 47, Ph.D.(psychol), 51. Opers. analyst, opers. res. off, Hopkins, 51-56; mgr. life sci. unit, Gen. Elec. Adv. Electronics Center, 56-62; assoc. dean col. arts & sci, Cornell, 62-63, dean students, 63-67; PROF. PSYCHOL. & DIR. RES, ITHACA COL, 67- Vis. prof, Cornell, 58, lectr, 62- Consult, Gen. Elec. Co, 62-; Tompkins-Seneca Bd. Coop. Ed. Serv, 66- U.S.A.A.F, 41-46, Capt. Psychol. Asn. Fatigue and stress; industrial psychology; higher education; influence of the college environment; social psychological problems in higher education; systems problems and design. Publ: Auditory and visual flicker-fusion as measures of fatigue, Am. J. Psychol; Stress in combat, Sci. Am; contrib, Stress in infantry combat, Opers. Res. for Mgt. Address: 124 N. Sunset Dr, Ithaca, N.Y. 14850.

DAVIS, THOMAS E, Res. Admin, see 11th ed, Phys. & Biol. Vols.

DAVIS, DR. THOMAS JEFF, b. McAlester, Okla, July 25, 05; m. 44. BUSINESS ECONOMICS. B.A, Mississippi, 27; Ph.D, American Univ, 55. Chief textile economist, U.S. Dept. Commerce, 51-64, dir. off. textile, 64-66; CHMN. DEPT. ECON. & BUS, TAMPA, 66- Agr. economist, Food & Agr. Orgn, UN, 55-56. U.S.A, 42-46, Sgt. Econ. Asn. Textile and apparel economics, especially fluctuations and international problems. Publ: Report to the Philippine government on economic policies for abaca; Cycles and trends in textiles. Address: 2401 Bayshore Blvd, Apt. 1212, Tampa, Fla. 33609.

DAVIS, PROF. TOM EDWARD, b. Akron, Ohio, June 11, 29; m. 53; c. 2. ECONOMIC DEVELOPMENT. A.B, Tufts, 50; univ. fel. & M.A, Hopkins, 52, Ph.D.(econ), 56; Fulbright & Soc. Sci. Res. Coun. fels, London Sch. Econ, 53-55. Asst. prof. ECON, Chicago, 56-58, assoc. prof, 58-62; CORNELL, 62-67, PROF. & CHMN. DEPT, 67-, assoc. dir, Latin Am. Prog, 64-65, dir, 65-67. Ford Found. fel, 65-66. Consult, U.S. Agency Int. Develop, 63-67; For. Area Fel. Prog, 64-; U.S. Off. Ed, 65- Chmn, Latin Am. Res. Review Bd, 65-67. Econ. Asn; Latin Am. Studies Asn. Economic growth and social change in underdeveloped countries, especially Latin America; economic history of Chile. Publ: Co-auth, Mexico's recent economic growth, Univ. Texas, 67; auth, Dualism, stagnation and inequality, Indust. & Labor Rels. Rev, 64; Changing conceptions of the development problem, Econ. Develop. & Cultural Change, 65. Address: Dept. of Economics, Cornell University, Ithaca, N.Y. 14850.

DAVIS, DR. V(ERNAM) TERRELL, Psychiat, see 11th ed, Phys. & Biol. Vols.

DAVIS, DR. VINCENT, b. Chattanooga, Tenn, May 3, 30; m. 57; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Vanderbilt, 52; M.P.A, Princeton, 59, fel, 59-60, M.A, 60, Ph.D.(polit), 61. Instr. polit, Princeton, 59-61, res. asst, center int. studies, 60-61; asst. prof. govt. & great issues, Dartmouth Col, 61-62; POLIT. SCI. & INT. RELS, GRAD. SCH. INT. STUDIES & SOC. SCI. FOUND, DENVER, 62-65, ASSOC. PROF, 65- Vis. lectr, U.S. Air Force Acad. & Univ. Colorado. Consult, various agencies, U.S. Dept. Defense, 60-; consult. to asst. secy. ed, U.S. Dept. Health, Ed. & Welfare, NASA & various U.S. Govt. agencies, senators & congressmen, 65- U.S.N, 52-56, Res, 56-, Lt. Comdr. Int. Studies Asn;(exec. secy, 65-); Polit. Sci. Asn; Inst. Strategic Studies. International politics, especially United States foreign and military policy using interdisciplinary behavioral science perspectives; impact of physical sciences and technology on international relations. Publ: Postwar defense policy and the U.S. Navy, 1943-1946, 66 & The admirals lobby, 67, Univ. North Carolina; The politics of innovation, Grad. Sch. Int. Studies, Univ. Denver, 67. Address: Graduate School of International Studies, University of Denver, Denver, Colo. 80210.

DAVIS, DR. WILBUR A(RTHUR), b. Estacada, Ore, Apr. 17, 15; m. 36. ANTHROPOLOGY. B.A, Reed Col, 49; Washington (Seattle), 49-50; M.A, Oregon, 56, Ph.D.(anthrop), 62. Archaeologist, West. Speleol, Inst, 57-59; asst. curator ANTHROP, Santa Barbara Mus. Natural Hist, 59-60; mus. natural hist, Univ. Oregon, 62-63; asst. prof, Nevada, 63-66; ASSOC. PROF. & CURATOR, OREGON STATE, 66- Res. anthropologist, Nev. State Mus, 64-65; Nat. Sci. Found. res. grant, 65-66. U.S.M.C, 42-45, Sgt. Fel. Anthrop. Asn; Soc. Am. Archaeol. Prehistory of North America; ethnology of circumpolar peoples; folklore; Prehistory of central Sierra Nevada Mountains and the Oregon Coast. Publ: Collab, Cultural sequences at the Dalle, Oregon, Am. Philos. Soc, 60; co-ed, The current status of anthropological research in the Great Basin: 1954, Desert Res. Inst, 66; auth, Coastal and inland sites of the Katmai National Monument, Alaska, Arch. Archaeol, 60. Address: Dept. of Anthropology, Oregon State University, Corvallis, Ore. 97331.

DAVIS, WILFORD L(AVERN), b. Fairport, Mo, May 6, 30; m. 54; c. 1. STATISTICS, MATHEMATICS. B.S, Missouri, 56; M.S, N.C. State Col, 58. Asst. statist, N.C. State Col, 56-58; assoc. scientist, Westinghouse Elec. Corp, 58-59, scientist, 59-61; res. statistician, Atlantic Richfield Co, 61-65; CHIEF ENGINEER MATH, RES. DEPT, OWENS-ILL. CORP, 65- U.S.N, 48-52. Statist. Asn. Experimental and mathematical statistics; methods of design and analysis. Publ: Investigation of robustness to non-normality of criteria for testing outlying observation; Statistical study of the effects of heat treatment on the tensile properties of zircaloy-2; Cross-over experimental designs. Address: Research Dept, Owens-Illinois Coop, 1700 Westwood. Toledo, Ohio 43604.

DAVIS, PROF. WILLIAM C(OLUMBUS), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DAVIS, PROF. WINBORN E, b. Heflin, La, Aug. 26, 17; m. 40; c. 1. HOSPITAL ADMINISTRATION, SOCIAL WORK. B.A, La. State, 40, M.S.W, Tulane, 48. Family serv. supvr, U.S. Dept. Agr, 41-42; probtn. & parole officer, La.

State Dept. Pub. Welfare, 42 & 46; med. soc. worker, Vet. Admin, 46-48; chief ment. health admin, La. State Dept. Hosps, 48-51; assoc. prof. ment. health, spec. ed. center, Southeast. La. Col, 51-55; dir. eval. center, La. State Dept. Hosps, 55-57, dir. admin. training & res, 57-61, asst. dir, Dept. Hosps, 61-62, dir, 62-64; ASSOC. PROF. HOSP. MGT, COL. BUS. ADMIN. & ADMINSTR. STUDENT HEALTH SERV, LA. STATE, 64- Consult, hosp. staff develop. cmt, Nat. Inst. Ment. Health, 64- Mem. bd. dirs, Nat. Asn. State Confs. & Planning Orgns, 62-63. Charles E. Dunbar award distinguished pub. serv, La. Civil Serv. League, 59. Med.Serv.C, U.S.N.R, 42-45, Res, 45-53, Lt.(jg). Nat. Asn. Soc. Workers; Col. Health Asn. Learning problems of children; methods of mental health consultation; methods of counseling parents of handicapped children; training methods for staff development in institutions. Publ: Co-auth, A manual for the comprehensive community mental health clinic, C.C. Thomas, 64; auth, Short term counseling with parents of retarded children, La. State Dept. Hosps, 1/61; The aged in state mental hospitals, J. Am. Nursing Home Asn, 11/64. Address: Student Hospital, Louisiana State University, Baton Rouge, La. 70803.

DAVISON, DR. ARTHUR H, b. New York, N.Y, Oct. 19, 24. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 45; M.A, Iowa, 46; Ph.D.(psychol), Purdue, 50. Chief clin. psychologist, Vet. Admin. Hosp, Indianapolis, Ind, 50-52, clin. psychologist, Perry Point, Md, 52-53; chief clin. psychologist, Milwaukee County Hosp. Ment. Diseases, Wis, 53-54; clin. psychologist, State Prison, Calif, 54-56; chief clin. psychologist, Vet. Admin. Hosp, Fresno, 56-58; assoc. prof. psychol, North Dakota, 58-59; chief clin. psychologist, Sonoma State Hosp, Eldridge, Calif, 59-60; clin. psychologist, U.S. Naval Hosp, Oakland, 60-63; chief clin psychologist, Santa Barbara County Ment. Health Serv, 63-65; clin. psychologist, Calif. Mens Colony, Los Padres, 65-67; DIR. MENT. HEALTH DIV, STATE OF WYO, 67- Psychol. Asn; Soc. Proj. Tech; Group Psychother. Asn; Acad. Psychother. Jungian analysis; projective techniques; personality dynamics; community mental health. Publ: Relationship between unimanual and bimanual handedness, J. Exp. Psychol; A comparison of the fantasy productions on the thematic apperception test of sixty hospitalized psychoneurotic and psychotic patients, J. Proj. Tech. Address: Mental Health Division, State Office Bldg, Cheyenne, Wyo. 82001.

DAVISON, DR. LESLIE ALVIN, b. Oakland, Calif. Aug. 20, 31; m. 61; c. 1. PSYCHOLOGY. A.B, California, Berkeley, 54, Ph.D.(clin. psychol), 63. Asst. prof. clin. psychol, Oregon, 63-66; PSYCHOLOGIST & ASST. CLIN. PROF. MED. PSYCHOL, MED. CENTER, CALIFORNIA, SAN FRANCISCO, 66- Peace Corps assessment officer, Nepal IV, Univ. Oregon, summer 64. Consult, Ore. region, Vet. Admin, 63-66. U.S.A, 54-56, 1st Lt. Dreaming; psychological stress and assessment. Publ: Co-auth, A laboratory study of psychological stress produced by a motion picture film, Psychol. Monogr, 62 & Experimental analysis of a film used as a threatening stimulus, J. Consult. Psychol, 64; auth, The experimental reduction of stress based on ego defense theory, J. Abnorm. & Soc. Psychol, 64. Address: Adult Psychiatry Clinic, 201 C, University of California Medical Center, San Francisco, Calif. 94122.

DAVISON, PROF. W(ALTER) PHILLIPS, b. Bath, N.Y, July 15, 18. SOCIOLOGY. A.B, Princeton, 39; M.A, Columbia, 41, Ph.D.(sociol), 54. Instr. soc. psychol, Princeton, 47-48; res. scientist, Rand Corp, 48-57 & 58-61; vis. prof. polit. sci, Mass. Inst. Tech, 57-58; sr. res. fel, Coun. For. Rels, N.Y, 61-65; vis. prof. sociol, COLUMBIA, 65-67, PROF. SOCIOL. & JOURNALISM, 67- Ed, Pub. Opinion Quart, 48-51 & 68- Chmn. bd. trustees, Bur. Soc. Sci. Res, Inc, 54- U.S.A, 44-46, 2nd Lt. Sociol. Asn; Asn. Pub. Opinion Res; Coun. For. Rels. Public opinion and communication. Publ: Co-auth, West German leadership and foreign policy, Harper, 57; auth, The Berlin blockade, Princeton, 58; International political communication, Praeger, 65. Address: Graduate School of Journalism, Columbia University, New York, N.Y. 10027.

DAVISON, WILLIAM R(INGGOLD), b. Collingswood, N.J, Dec. 26, 13; m. 54; c. 2. MATHEMATICS, APPLIED STATISTICS. A.B, Missouri, 49, M.A, 50. Asst. instr. statist, Missouri, 49-50; asst. to dir. res. serv. ed. testing, Stephens Col, 50-53; chief statist. & eval. sect. qual. control, eng. br, Ord. Ammunition Command, 53-56; progs. anal. mgr, rocket fuels div, Phillips Petrol. Co, 56-57, dir. opers. res, comput. dept, 57-64; coordinator opers. res, Standard Oil Co. Ind, 64-67; MGR. INFO. SERV. DEPT, AMOCO CHEM. CORP, 67- U.S.A.A.F, 42-46. Statist. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Sampling plan construction and computation of operating characteristic curves; development of technoeconomic optimization models for corporate activities; systems approach to computer-oriented management planning and control. Publ: Some problems related to the selection of an AQL; auth, Latent reliability: an approximation method & co-auth, Simplified procedures for sampling inspection by variables, Indust. Qual. Control. Address: Information Services Dept, Amoco Chemicals Corp, 180 N. Michigan Ave, Room 300, Chicago, Ill. 60601.

DAVISSON, PROF. CHARLES N(ELSON), b. Winchester, Ind, Mar. 2, 17; m. 42; c. 2. BUSINESS ADMINISTRATION, MARKETING. A.B, Earlham Col, 38; M.B.A, Michigan, 40, Ph.D.(bus. admin), 45. Instr. MKT, Missouri, 40-42; PROF, GRAD. SCH. BUS. ADMIN, MICHIGAN, 42- Prof, mgt. develop. inst, Lausanne, 60-61; Stichting Bedrijfskunds, Rotterdam, 68. Bus. consult. Econ. Asn; Mkt. Asn. Price industrial marketing and procurement. Publ: Marketing of automotive parts, Univ. Mich. Bus. Studies; co-auth, Lease as a financing and selling device, Univ. Mich. Bus. Reports & Economic effects of the wage-price guide posts, Univ. Mich. Bus. Papers, 67. Address: Graduate School of Business Administration, University of Michigan, Ann Arbor, Mich. 48104.

DAVISSON, DR. WILLIAM I, b. Tacoma, Wash, Jan. 27, 29; m. 55; c. 4. ECONOMICS. B.A, Col. Puget Sound, 53, M.A, 54; Ph.D.(econ), Cornell, 61. Instr. ECON, Col. Puget Sound, 53-54; asst. prof, East. Mont. Col, 57-59; Whittier Col, 59-60; Sacramento State Col, 60-66; ASSOC. PROF, NOTRE DAME, 66- Mkt. res. consult, Bellwood Door Co, Calif, 59; Loyalty Savings & Loan Co, Calif, 62. Consult, Calif. Dept. Finance, 60-61; Econ. Develop. Agency, State Capitol, Calif, 62; Calif. State Senate, 63-64. U.S.A, 51-53. Computer science application to problems of economic growth and development; historical and contemporary situations. Publ: Co-auth, Introduction to microeconomic theory, Harcourt, 65; auth, Public investment criteria, Land Econ, 5/64; Essex County price trends, 1640-1682, Essex Inst. Collections, 4/67. Address: Dept. of Economics, University of Notre Dame, Notre Dame, Ind. 46556.

DAVITT, THOMAS E(DWARD), S.J, b. Adrian, Mich, May 6, 04. JURISPRUDENCE, POLITICAL SCIENCE. A.B, Detroit, 32; M.A, St. Louis, 36, Ph.D, 50; Toronto, 45-46; summer, Harvard, 47. Regent, sch. law & mem. coun. regents & deans, St. Louis, 49-51, assoc. prof. JURISP, SCH. LAW, 53-54; PROF, MARQUETTE, 60- Guggenheim fel, 56-57; Am. Philos. Soc. grants, 60-62. AAAS; Polit. Sci. Asn. Ethnological, anthropological and primitive law data to determine constant and invariant patterns of basic value judgments present in all substantive and procedural law. Publ: Nature of Law; Elements of Law; Law as means to end, Vanderbilt Law Rev. Address: 1131 W. Wisconsin Ave, Milwaukee, Wis. 53233.

DAVITZ, PROF. JOEL ROBERT, b. Chicago, Ill, Apr. 13, 26; m. 45; c. 1. PSYCHOLOGY. B.S, Illinois, 47; Ph.D.(psychol), Columbia, 51. Res. assoc, teachers col, Columbia, 51-52; Ford Found. res. fel, Illinois, 52-54; asst. prof. psychol, Yale, 54-55; assoc. prof, TEACHERS COL, COLUMBIA, 55-62, PROF. PSYCHOL. & ED, 62- U.S.N.R, 44-46. Psychol. Asn. Personality and interpersonal relations. Publ: Effects of previous training on postfrustration behavior, J. Abnorm. & Soc. Psychol; Decreased autonomic functioning and extinction of a conditioned emotional response, J. Comp. & Physiol. Psychol. Address: Teachers College, Columbia University, New York, N.Y. 10027.

DAVOL, DR. STEPHEN H(ERBERT), b. Malden, Mass, Feb. 16, 28; m. 50; c. 3. PSYCHOLOGY. B.A, Colorado, 50, M.P.S, 52; Kans. State Col, 53-54; Ph.D, Rochester, 58. Dir. guid. & testing, pub. schs, Colorado, 52-53; dir. mens res. halls, Kans. State Col, 53-54; asst. PSYCHOL, Rochester, 54-55; trainee, Vet. Admin. Center, Bath, N.Y, 55-57, chief, res. unit, 57-60; ASSOC. PROF, MT. HOLYOKE COL, 60- Lectr, Rochester, 57-59, res. assoc, 57-59; asst. prof, Corning Community Col, 58-60; vis. lectr, Smith Col, spring 62; vis. prof, Massachusetts, spring 66; vis. scholar, Garnett Col. & Inst. Ed, London, 67-68. U.S.N.R, 45-46. AAAS; Psychol. Asn. Developmental psychology: perceptual-motor abilities, spatial ability, cognitive functions; interpersonal perception and sociometric structure; attitude measurement; mathematical models. Publ: Empirical test of structural balance in sociometric triads; co-auth, Effect of age, sex, and speed of rotation on rotary pursuit performance by young children, 65 & Effects of sex, age, reading ability, socio-economic level, and display position on a measure of spatial relations in children, J. Perceptual & Motor Skills. Address: 11 Wright Pl, South Hadley, Mass. 01075.

DAWE, PROF. HELEN C(LEVELAND), b. Concord, N.H, Apr. 2, 09. CHILD PSYCHOLOGY. B.A, Smith Col, 31; M.A, Minnesota, 32; Ph.D.(child psychol), Iowa, 40. Asst, inst. child welfare, Minnesota, 31-34; pre-sch. teacher, child welfare res. sta, Iowa, 34-36, asst, 36-39; from instr. to asst. prof. child develop, Iowa State Col, 39-41, asst. prof. HOME ECON, WISCONSIN, 41-45, assoc. prof, 45-49, PROF, 49- Consult, region IV, head start prog, Off. Econ. Opportunity, 66- Fel. Soc. Res. Child Develop; Home Econ. Asn. Early childhood education, social behavior and language; teacher techniques; effect of an educational program upon language development and related mental functions in young children. Address: School of Home Economics, University of Wisconsin, Madison, Wis. 53706.

DAWES, DR. ROBYN MASON, b. Pittsburgh, Pa, July 23, 36; m. 63; c. 1. PSYCHOLOGY. A.B, Harvard, 58; U.S. Pub. Health Serv. fel, Michigan, 59, M.A, 60, Ph.D.(psychol), 63. Lectr. PSYCHOL, Michigan, 63-66, asst. prof, 66-67, assoc. prof, 67; RES. ASSOC, ORE. RES. INST, 67-; ASSOC. PROF, OREGON, 67- Res. assoc, Vet. Admin. Hosp, Ann Arbor, Mich, 62-63, res. psychologist, 63-67. Psychol. Asn; Psychomet. Soc; Statist. Asn. Classification and how relationships between variables may be studied when classification is imperfect; how people distort information, particularly social information. Publ: Co-auth, Introduction to mathematical psychology, Prentice-Hall, (in press); Mixed group validation: a method for determining the validity of diagnostic signs without using criterion groups, Psychol. Bull 66: 63-67; auth, Memory and distortion of meaningful written material, Brit. J. Psychol, 57: 77-86. Address: Dept. of Psychology, University of Oregon, Eugene, Ore. 97403.

DAWIS, PROF. RENE V, b. Manila, Philippines, Dec. 29, 28; m. 51; c. 7. PSYCHOLOGY, INDUSTRIAL RELATIONS. B.A, Philippines, 51; M.A, Minnesota, 55, Ph.D.(psychol), 56. Instr. psychol, Philippines, 51-56, asst. prof, 56-57; res. assoc. indust. rels, MINNESOTA, MINNEAPOLIS, 57-62, vis. assoc. prof, 62-63, assoc. prof, 63-65, PROF. PSYCHOL. & INDUST. RELS, 65- Consult, Vet. Admin. Hosp, 63- Res. award, div. rehab. counseling, Am. Personnel & Guid. Asn, 60, spec. res. award, 67; res. award, Am. Rehab. Counseling Asn, 65. AAAS; Psychol. Asn. Psychology of individual differences; psychological measurement; vocational psychology; psychology of work. Publ: Co-auth, A definition of work adjustment, 60, A theory of work adjustment, 64 & Seven years of research on work adjustment, 66, Indust. Rels. Center, Univ. Minnesota. Address: Industrial Relations Center, University of Minnesota, Minneapolis, Minn. 55455.

DAWKINS, DR. GEORGE S(PANGLER), Indust. Eng, Opers. Res, see 11th ed, Phys. & Biol. Vols.

DAWKINS, PROF. LOLA B, b. Ft. Worth, Tex, Dec. 29, 13; m. 34. BUSINESS ADMINISTRATION, MANAGEMENT. B.B.A, Texas, El Paso, 54; M.B.A, Texas, Austin, 56, Ph.D.(mgt), 62; Ford Found. fel, California, Los Angeles, 61. Certifying officer, Tex. Relief Cmn, Odessa, 33-36; asst. city secy, Odessa, 36-46; exec. secy, First Baptist Church, 48-51; bookkeeper, John Williams Ins, El Paso, 54; spec. instr. secretarial & teaching asst, Texas, Austin, 55-58; assoc. prof. off. admin, Arizona State, 59-65; OFF. MGT. & BUS. ED, TEXAS, EL PASO, 65-68, PROF, 68- Bus. Commun. Asn; Nat. Bus. Ed. Asn. Women in business; personnel policies and practices in banks, department stores and service organizations; office management; systems and procedures. Publ: Co-auth, Women in business: equal pay for equal work?, Bur. Bus. Res, Univ. Texas, 59; auth, Cases in office management,

63; Readings in office management, Boulder, 67. Address: 3500 Sun Bowl Dr, Apt. 17, El Paso, Tex. 79902.

DAWSON, PROF. C(LARENCE) C(OLTON), Econ, see 10th ed, Soc. & Behav. Vols.

DAWSON, DR. DOLPHUS RANSOME, b. Richland, N.C, Nov. 25, 17; m. 45; c. 4. ECONOMICS, MANAGEMENT SCIENCE. A.B, Louisville, 54; M.S, Montana State, 59, Ph.D.(econ), 64; N.C. State Col, 60; Wisconsin, 60-62. Res. asst. econ, Montana State, 62-64, asst. prof. agr. econ. & econ, 64-65; ASSOC. PROF. BUS. & ECON, FT. LEWIS COL, 65- U.S.A.F, 41-58, Maj. Econ. Asn; Farm Econ. Asn. Micro economics; finance. Publ: An analysis of the effect of beef imports on income from cattle in Montana, 4/64 & Direct marketing of feeder cattle in Montana, 8/65, Mont. Agr. Exp. Sta. Address: Division of Economics & Business, Ft. Lewis College, College Heights, Durango, Colo. 81301.

DAWSON, PROF. GEORGE G(LENN), b. Shelter Island, N.Y, Aug. 16, 25; m. 47. ECONOMIC HISTORY. Danforth fel. & B.S, N.Y. Univ, 56, M.A, 57, Ph.D.(labor hist), 59. Teacher, high schs, N.Y, 56-58; asst. prof. soc. studies, N.Y. UNIV, 59-62, assoc. prof. SOC. STUDIES, 62-66, PROF, 66-, HEAD SOC. STUDIES DIV. & DIR. CENTER ECON. ED, 65-, dir, Somali Peace Corps Proj, 62-64. Consult, pub. schs, N.Y, 61-62; peace corps training, Eastern Michigan & Syracuse, 64-65; United World Films, 66- Mem. bd. dir, N.Y.C. Coun. Econ. Ed, 60- U.S.N, 42-46, Res, 50-51. Econ. Asn; Acad. Polit. & Soc. Sci; Coun. Soc. Studies. Attitude changes that occur in freshman and sophomore college students toward organized labor; effectiveness of introductory economics courses; economic backgrounds of teachers. Publ: Guide to economics, Vol. I & II, Putnams, 65; co-auth, Economics for businessmen and investors, Collier Books, 66; auth, Economic education experiences of enterprising teachers, Joint Coun. Econ. Ed, 67. Address: 2292 Arby Court, Bellmore, N.Y. 11710.

DAWSON, PROF. GEORGE R, b. Donna, Tex, May 1, 28; m. 52. AGRICULTURAL ECONOMICS. B.S, New Mexico State, 50; M.S, Missouri, 55; Ph.D. (agr. econ), Cornell, 58. Asst. county agent, NEW MEXICO STATE, 50-53, assoc. county agent, 53-55, asst. prof. farm mgt, 57-61, assoc. prof, 61-65, PROF. AGR. ECON. & HEAD DEPT, 65- Consult, U.S. Dept. Labor, 61. Mem. Int. Conf. Agr. Econ, 60-; Great Plains Resource Econ. Cmt, 65-; N.Mex. Manpower Adv. Cmt. U.S.A, 50-52, Res, 52, Capt. Agr. Econ. Asn. Farm management. Address: Dept. of Agricultural Economics, New Mexico State University, P.O. Box 3169, Las Cruces, N.Mex. 88001.

DAWSON, DR. HERBERT E(LLSWORTH), b. Memphis, Tenn, Mar. 28, 20; m. 53; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Southwestern at Memphis, 42; M.A, Indiana, 51, Ph.D.(exp. psychol), 53. Asst. prof. res, Fels Res. Inst, Antioch Col, 51-53; res. assoc, Indiana, 53-54; assoc. soc. scientist, Rand Corp, 55-58; Syst. Develop. Corp, Calif, 58-60; psychologist, res. dept, New Eng. Mutual Life Ins. Co, 60-62; asst. prof. psychol, Utica Col, 62-63; assoc. prof. & chmn. dept, Cedar Crest Col, 63-64; assoc. prof. Marshall, 64-65; prof, Tennessee State, 66-67; TRAINEE CLIN. PSYCHOL, VET. ADMIN. HOSP, LOUISVILLE & LEXINGTON, KY, 67- Nat. Sci. Found. fel, summer inst. col. teachers, Beloit Col, 64. U.S.N, 42-43; U.S.M.C, 43-46. Psychol. Asn. Psychological stress; group learning; clinical psychology. Address: 110 Woodmont Blvd, Nashville, Tenn. 37205.

DAWSON, PROF. IRVING O, b. Lewistown, Mont, June 5, 30. POLITICAL SCIENCE. B.A, North Texas State, 48; M.A, Texas, 50, Ph.D.(govt), 57. Instr. GOVT, LAMAR STATE COL, 51-53, asst. prof, 53-57, assoc. prof, 57-60, PROF. & CHMN, 61- Soc. Pub. Admin; Polit. Sci. Asn. Public employee organization; government and education. Publ: Co-auth, Governing Texas documents and readings, Crowell, 66. Address: Dept. of Government, Lamar State College of Technology, Beaumont, Tex. 77704.

DAWSON, DR. JOHN A(DDINGTON), b. Montreal, Que, Sept. 14, 23; m. 47; c. 2. ECONOMICS. B.Sc, McGill, 47; M.S, Illinois, 49; Ph.D, Chicago, 57. Economist, Can. Dept. Agr, 47-55; res. assoc, Chicago, 55-57; secy, Royal Cmn. Price Spreads Food Prods, 57-60; economist, Bd. Broadcast Gov, 60-64; STAFF ECONOMIST, ECON. COUN. CAN, 64- R.C.N, 42-45. Am. Econ. Asn; Am. Agr. Econ. Asn; Can. Agr. Econ. Soc.(secy-treas, 50-53); Can. Econ. Asn. Agricultural economics. Publ: Changes in agriculture to 1970, Econ. Coun. Can, 12/64; Changes in agriculture in Dundas County, Ontario; Farm mechanization in Ontario and Quebec. Address: 1593 Dorion Ave, Ottawa 8, Ont, Can.

DAWSON, DR. JOSEPH G(REEN), JR, b. Kinston, N.C, Sept. 30, 18; m. 44; c. 2. PSYCHOLOGY. A.B, North Carolina, 40; A.M, Chicago, 47, Ph.D, 49. Trainee clin. psychol, Vet. Admin, 46-49; asst. prof. & clin. supvr, North Carolina, 49-50, assoc. prof. & coordinator clin. training, 50-53; chief psychologist, Southeast La. Hosp, 53-58; coordinator training & res, Vet. Admin. Hosp, Augusta, Ga, 58-59; prof. psychol. & head psychol. serv, col. health related serv, Florida, 59-62; PROF. PSYCHOL, LA. STATE, 62-, clin. assoc. prof, sch. med, 54-58. Consult, Vet. Admin, 50-58; La. Dept. Hosps, 61-; Hammond State Sch, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F, 42-45; U.S.P.H.S.R, 57- Fel. Psychol. Asn; Acad. Psychother. Schizophrenia; Hansen's disease; psychotherapy. Publ: Ed, Psychotherapy with schizophrenics. Address: Dept. of Psychology, Louisiana State University, Baton Rouge, La. 70803.

DAWSON, DR. LYNDON E, JR, b. Haynesville, La, Oct. 29, 34. MARKETING, ECONOMICS. B.S, La. State, 56, M.B.A, 59; Ph.D.(bus. admin), Alabama, 67. Instr. mkt, Auburn, 60-62; Alabama, 62-64, res. assoc, 65-67; asst. prof. bus. admin, The Citadel, 64-65; ASSOC. PROF. MKT, NORTHEAST LA. STATE COL, 67- U.S.A. & Res, 58-64. AAAS; Mkt. Asn. Shopping center development; retail institutional merchandising; transportation; consumer shopping behavior; advertising effectiveness. Publ: Co-auth, Capital and income effects of signboard regulation, control, and removal on selected kinds of businesses and land segments, 67, Land use analysis in a highway corridor area, 68 & Consumer household shopping travel behavior in a highway corridor area, 68, Ala. Hwy. Dept. Address: Dept. of Marketing, Northeast Louisiana State College, Monroe, La. 71201.

DAWSON, DR. PHILIP, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DAWSON, DR. RAYMOND H(OWARD), b. Camden, Ark, Oct. 12, 27; m. 49; c. 2. POLITICAL SCIENCE. B.A, Col. of Ozarks, 49; M.A, Vanderbilt, 51; Ph.D.(polit. sci), North Carolina, 58. Mershon fel, Ohio State, 59-60; asst. prof. POLIT. SCI, NORTH CAROLINA, 60-62, ASSOC. PROF, 62- Fulbright lectr, King's Col, Univ. London, 64-65; res. assoc, inst. war & peace studies, Columbia Univ, 67-68. Consult, U.S. Army Res. Off, 62- Harbison prize, Danforth Found, 67. U.S.A.A.F, 45-47, Sgt. Polit. Sci. Asn; Inst. Strategic Studies. Comparative civil-military relations; American military policy and foreign policy; international politics. Publ: The decision to aid Russia, 1941, Univ. North Carolina, 59; Congressional intervention in defense policy, Am. Polit. Sci. Rev, 62; co-auth, Theory and reality in the Anglo-American Alliance, World Polit, 66. Address: Dept. of Political Science, University of North Carolina, Chapel Hill, N.C. 27514.

DAWSON, PROF. WILLIAM FOSTER, b. Pittsburgh, Pa, May 27, 30; m. 56. POLITICAL SCIENCE. B.A, Toronto, 52; M.A, Queen's (Ont), 53; Dr.Phil, Oxford, 58. Asst. chief, Eng. Journals Br, House of Commons, 55-58; lectr. POLIT. SCI, Alberta, 58-59, asst. prof, 59-64, assoc. prof, 64-67; vis. prof, WESTERN ONTARIO, 66-67, PROF, 67- Can. Polit. Sci. Asn.(v.pres, 66-67); Inst. Pub. Admin. Can; Royal Inst. Pub. Admin. Canadian government, particularly development of parliamentary procedure in Canada and place and function of Senate. Publ: Procedure in the Canadian House of Commons, Univ. Toronto, 62; Parliamentary privilege in the Canadian House of Commons; Privilege in the Senate of Canada, Pub. Law(Eng), 67. Address: Dept. of Political Science, University of Western Ontario, London, Ont. Can.

DAWSON, DR. WILLIAM WOODSON, Physiol Psychol, Biophys, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DAY, PROF. BARBARA R, Sociol, see 10th ed, Soc. & Behav. Vols.

DAY, BESSE B(EULAH) (MAUSS), Statist, see 11th ed, Phys. & Biol. Vols.

DAY, DR. DANIEL D(ROBA), b. Zaskov, Czech, nat. PSYCHOLOGY. Laura Spelman Rockefeller fel, Chicago, 26-28, M.A, 29; Ph.D.(soc. psychol), Ohio State, 31. Instr. soc. psychol, North Dakota, 31-32; res. asst. Chicago, 32-34; prof. sociol, Gustavus Adolphus Col, 34-35; res. supvr. soc. res, Works Progress Admin, 35-37; occup. res, U.S. Employ. Serv, 37-38; asst. prof. sociol, Mississippi, 38-39; res. consult. radio ed, Ohio State, 40-42; assoc. advisement & guid. officer, Vet. Admin. Cent. Off, 46-47, sr. advisement & guid. officer, 47-54, counseling prog. specialist; 54-56, COUNSELING PSYCHOLOGIST, Vet. Admin. Regional Off, Md, 56-60, Vet. Benefits Off, 60-64, VET. ADMIN. REGIONAL OFF, MD, 64- U.S.A, 42-46. Fel. Psychol. Asn; Personnel & Guid. Asn. Administration of vocational and personal counseling program. Publ: Scale of militarim-pacifism, J.Ed. Psychol; Methods for measuring attitudes, Psychol. Bull; Methodological problems in attitude research, J. Soc. Psychol. Address: P.O. Box 7, Washington, D.C. 20044.

DAY, DR. DENNIS G, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

DAY, DOROTHY J(UNE), b. Natchez, Miss, Feb. 19, 10. PSYCHOLOGY. M.A, Southern Methodist, 47; Vanderbilt, 50-51. Psychologist, State Bd. Health, Miss, 48-49, chief clin. psychologist, 51-59; sr. psychologist, State Bd. Health, Wis, 49-50; DIR, PSYCHOL. SERV. CENTER, 60- Lectr, Millsaps Col, 52-53; assoc. prof, Miss. South. Col, 60-61. Consult, Miss. Hosp. Sch. Cerebral Palsy, Jackson, 62-; Sanders Sch. Cerebral Palsy, 67- W.A.C, 44-45. Psychol. Asn; Int. Coun. Psychol. Behavior disorders; perception; mental health. Address: Psychological Services, 646 N. Jefferson, Jackson, Miss. 39202.

DAY, DR. ERNEST EDWARD DOUGLAS, b. London, Eng, July 6, 39; m. 63. GEOGRAPHY. B.A, Leicester, 60, cert. ed, 61; fel, Col. Tech, Portsmouth, Eng, 61-64; Ph.D.(geog), Sheffield, 65. Res. fel. GEOG, Inst. Fisheries, Bergen, Norway, 65; ASST. PROF, MEMORIAL UNIV, 65- Consult, Royal Cmn. Newf. State & Econ. Prospects, 66-; mem. nat. adv. cmt. geog. res. award, East. Can. Herring Indust, 67-68. Asn. Am. Geog; Can. Asn. Geog. Fisheries geography; economic geographical analyses of the eastern Canadian herring industry and the Newfoundland fishing industry, together with settlement studies in Newfoundland. Publ: The changing pattern of world fisheries, J. Inst. Bankers, Eng, 65; co-auth, Closure of the Bell Island iron ore mines, Geography, 7/67; auth, Fisheries development in Newfoundland, Newf. Govt, 1/68. Address: Dept. of Geography, Memorial University, St. John's, Newf, Can.

DAY, ERNEST HERBERT, Econ, Law, see 10th ed, Soc. & Behav. Vols.

DAY, DR. GORDON M(ALCOLM), b. Albany, Vt, Oct. 25, 11; m. 40; c. 5. ANTHROPOLOGICAL LINGUISTICS. B.S, State Univ. N.Y. Col. Forestry, Syracuse, 38, M.F, 39; Ph.D, Rutgers, 49. Forester, Vt. Forest Serv, 33-35, 37-38; soils technician, Conn. Agr. Exp. Sta, 39-40; jr. forester, U.S. Forest Serv, 40-41; instr. forestry, Rutgers, 41-43, 46-49, asst. prof, 49-51, assoc. prof, 51-52; res. assoc. forester, New Eng. Forest Industs, 52-57; res. assoc. anthrop, Dartmouth Col, 57-65; ETHNOHISTORIAN, NAT. MUS. CAN, 65- U.S.A, 43-46. Soc. Ethnohist.(secy-treas, 63-66, pres. elect, 66-67, pres, 67-68). Forest soils; tree nutrition; forest ecology and ethnohistory of the Northeast; Algonkian linguistics. Publ: The Indian as an ecological factor in the northeastern forest, Ecology, 53; A St. Francis Abenaki vocabulary, Int. J. Am. Ling, 64; the identity of the Sokokois, Ethnohistory, 67. Address: National Museum of Canada, Ottawa 4, Ont, Can.

DAY, PROF. JAMES F(RANCIS), b. Roosevelt, Utah, Apr. 8, 17; m. 46; c. 1. PSYCHOLOGY. B.S, Utah State Agr. Col, 38, M.S, 39; Ed.D.(ed. psychol), Stanford, 49. Statistician, State Bur. Res. & Statist, Utah, 42; instr. psychol. & dir. guid, Visalia Col, 47-48; dir. psychol. clin, East. Wash. Col. Ed, 49-50; asst. prof. psychol, Ariz. State Col, 50-51; res. psychologist & head prfnl. div, U.S. Naval Exam. Center, 51-52; asst. prof. psychol, San Fran-

cisco State Col, 52-54; ed. & psychol, TEXAS, EL PASO, 55-60, PROF. ED, 60-, chmn. dept, 60-66. Adv, U.S. Dept. Air Force, 54-55. U.S.N.R, 42-46, Lt. Psychol. Asn; Personnel & Guid. Asn; Coun. Measurement in Ed. Test construction; guidance; educational psychology. Address: Dept. of Education, Box 91, University of Texas, El Paso, Tex. 79902.

DAY, DR. JOHN LAURENCE, b. Preston, Idaho, Oct. 27, 34; m. 60; c. 2. JOURNALISM. B.A, Brigham Young, 59, M.A, 63; Buenos Aires, 61; Ph.D. (journalism), Minnesota, 66. Correspondent, United Press Int, Buenos Aires, Argentina, 61-62; teaching assoc. journalism, Minnesota, 63-65; copy ed, news dept, Minneapolis Tribune, 65-66; ASST. PROF. JOURNALISM, KANSAS, 66-, study grant, 68-69. Dir.field res, U.S. Info. Agency-Univ. Minnesota Latin American Newspaper Opinion Study, 64-66; McMillan Fund study award, 65. Asn. Ed. in Journalism. Professionalization of journalists in developing nations. Publ: How CIESPAL seeks to improve Latin American journalism, Journalism Quart, 66. Address: 400 Flint Hall, University of Kansas, Lawrence, Kans. 66044.

DAY, DEAN JOHN S(IDNEY), b. Newton, Mass, Oct. 13, 17; m. 44; c. 2. BUSINESS ADMINISTRATION. M.B.A, Harvard, 50, D.C.S, 56. Asst. to pres, C. Carlson Co, 39-40, 45-46; instr, Oxford Sch. Bus. Admin, 46-50; res. assoc, grad. sch. bus, Harvard, 50-53, asst. prof. bus. admin, 53-56; assoc. prof. indust. mgt, PURDUE, 56-59, prof, 59-60, ASSOC. DEAN SCH. INDUST. MGT, 60- Ford Found. fel, 59-60. Consult, State Farm Ins. Co; Nat. Steel Co, 67. U.S.M.C, 40-45, Col. Finance Asn. Small business; business policy; finance. Publ: Subcontracting policy in the airframe industry; co-auth, New enterprises and small business management. Address: Box 112, R.R. 9, West Lafayette, Ind. 47906.

DAY, DR. LEE M(ONROE), b. Thayer, Iowa, Feb. 25, 23; m. 48; c. 2. AGRICULTURAL ECONOMICS. B.S, Iowa State Col, 47, M.S, 48; Ph.D.(agr. econ), Minnesota, 53. Asst. prof. agr. econ, Wisconsin, 50-55; agr. economist, agr. res. serv, U.S. Dept. Agr, 56-65; head anal. group, planning, eval. prog. staff, off. secy, 65-67; PROF. AGR. ECON, PA. STATE, 67- Assoc. prof. Minnesota, 59-61. Consult, U.S. Dept. Agr, 67- U.S.N, 43-46. Farm Econ. Asn. Production economics; economics of scale; supply response for agricultural commodities; migration, interregional competition. Address: Dept. of Agricultural Economics, Pennsylvania State University, University Park, Pa. 16802.

DAY, PROF. LeROY J(UDSON), b. Clinton Falls, Minn, Dec. 12, 17; m. 42; c. 5. RURAL SOCIOLOGY. A.B, Minnesota, 39; B.D, Colgate-Rochester Divinity Sch, 42; M.A, Wisconsin, 44, Ph.D, 51. Asst. prof. SOCIOL, Ottawa (Kans), 48-51; PROF, Alderson-Broaddus Col, 55-65; SIOUX FALLS COL, 65- Instr, Rural Church Center, Green Lake, Wis, 46, 51-60. Fel. Sociol. Asn; Rural Sociol. Soc. Rural church; group dynamics. Publ: Dynamic christian fellowship; Interdependence in town-country relations. Address: Dept. of Sociology, Sioux Falls College, Sioux Falls, S.Dak. 57101.

DAY, PROF. LINCOLN H(UBERT), b. Ames, Iowa, Jan. 7, 28; m. 52; c. 2. SOCIOLOGY. B.A, Yale, 49; M.A, Columbia, 51, Ph.D, 57. Statist. analyst, UN, 51-52; instr. sociol, Mt. Holyoke Col, 52, 55-56, asst. prof, 57-58; vis. asst. prof, Princeton, 58-59; res. assoc, bur. appl. soc. res, Columbia, 59-64; sch. pub. health, Harvard, 64-65; ASSOC. PROF. SOCIOL. & PUB. HEALTH, YALE, 65- Vis. fel, Australian Nat. Univ, 62-64, vis. prof, 67-68. A.U.S, 53-55. Sociol. Asn; Pop. Asn. Am; Statist. Asn; Int. Union Sci. Study Pop; Pub. Health Asn. Demography. Publ: Co-auth, Disabled workers in the labor market, Bedminster, 64 & Too many Americans, Houghton, 64; auth, Differential fertility among Catholics in Australia, Milbank Mem. Fund. Quart, 4/64. Address: Dept. of Sociology, Yale University, New Haven, Conn. 06520.

DAY, DR. MERLE E(LMER), b. Derry, N.H, May 31, 22; m. 43; c. 2. PSYCHOLOGY. B.S, Long Island, 51, M.A, 53; Ph.D.(psychol, counseling), N.Y. Univ, 57. Intern, Vet. Admin. Hosps, 52-57, staff psychologist counseling, Vet. Admin. Hosp, Northport, 57-63; coordinator counseling psychol, Perry Point Vet. Admin. Hosp, Md, 63-67; STAFF PSYCHOLOGIST, DOWNEY VET. ADMIN. HOSP, 67- Psychotherapist, Cent. Island Community Ment. Health Center, Uniondale, N.Y, 57-61; private practice, 57-; lectr, Nassau Community Col, 61-63; assoc. prof, Loyola, 64-67. U.S.A.A.F, 42-45. Psychol. Asn. Psychotherapy, anxiety and attentional processes in schizophrenia. Publ: An eye movement phenomenon related to attention, thought and anxiety, J. Perceptual Motor Skills, 64; An eye movement phenomenon of individual differences in the physiological organization of attentional processes and anxiety, J. Psychol, 67; An eye movement indicator of type and level of anxiety: some clinical observations, J. Clin. Psychol, 67. Address: 1548 W. Sherwin Ave, Chicago, Ill. 60626.

DAY, PROF. RALPH LEWIS, b. La Fayette, Ga, July 24, 26; m. 49; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. B.S, Ga. Inst. Tech, 50, M.S, 55; South. Fel. Fund faculty fel, North Carolina, 58-59, Ph.D.(bus. admin. & econ), 61. Collections mgr, Rhodes, Inc, S.C, 50; chief estimator sales, Atlanta zone, Otis Elevator Co, 52-55; asst. to sales mgr, Southwire Co, Ga, 55-56; instr. mgt, Ga. Inst. Tech, 56-59; asst. prof. mkt, Texas, Austin, 59-62, assoc. prof, 62-63; PROF, Pa. State, 63-66; BUS. ADMIN, INDIANA, 66- Vis. prof, Carnegie-Mellon Univ, 61-62; Ford Found. faculty res. fel. bus, 64-65 & summers, 60 & 63. Consult. ed, Int. Textbook Co, 63- U.S.N, 43-46; U.S.A.F, 50-52, 2nd Lt. Inst. Mgt. Sci; Opers. Res. Soc; Mkt. Asn. Measurement of consumer preferences for physical attributes of products; computer simulation of the choice process; analysis of paired comparisons and other testing procedures. Publ: Marketing models, 64 & Concepts for modern marketing, 68, Int. Textbook Co; Marketing in action: a decision game, Irwin, 68. Address: 4501 Sheffield Dr, Bloomington, Ind. 47401.

DAY, DR. RICHARD H(OLLIS), b. Ames, Iowa. ECONOMICS. B.S, Iowa, 55; M.A, & Ph.D.(econ), Harvard, 61. Agr. economist, U.S. Dept. Agr, 58-59; res. assoc, Nat. Cotton Coun, 60-62; econ. adv. to dir, Food for Peace, 62; asst. prof. ECON, WISCONSIN, 62-64, ASSOC. PROF, 65- Fulbright lectr, 67- U.S.A.F, 59-62, Res, 62-, Capt. Econ. Asn; Economet. Soc; Agr. Econ. Asn. Microeconomic theory; dynamic and quantitative economic models; agricultural and industrial development. Publ: Recursive programming and production response, North-Holland, 63; Profits, learning and the convergence of satisfying to marginalism, Quart. J. Econ, 67; The economics of technological change and the demise of the share cropper, Am. Econ. Rev, 67. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

DAY, DR. RICHARD L(OREY), b. Templeton, Mass, July 6, 21. GEOGRAPHY. B.A, Clark, 48, M.A, 50; Ph.D.(geog), Illinois, 59. Observer meteorol, U.S. Weather Bur, 40-45; from instr. to asst. prof. GEOG, Florida, 50-61; ASSOC. PROF, IDAHO, 61- Asst, Illinois, 53-55. Transportation consult, City Planning Cmn. East St. Louis, 55-56. Asn. Am. Geog; Am. Geog. Soc; Meteorol. Soc; Royal Can. Geog. Soc. Transportation geography; climatology; geography of United States and Canada; Geography of manufacturing. Address: College of Mines, University of Idaho, Moscow, Idaho 83843.

DAY, DR. ROBERT C(OIT), b. St. Louis, Mo, Dec. 2, 27; m. 57; c. 3. SOCIOLOGY. A.B, Kenyon Col, 52; Ph.D.(sociol), Washington (St. Louis), 64. ASST. PROF. SOCIOL, Wisconsin, 63-65; WASHINGTON STATE, 65- U.S.A, 47-48. Sociol. Asn. Leadership; aggression; programmed reinforcement in educational systems. Publ: Co-auth, The interference-agression law?, Sociometry, 6/63 & Some effects of close and punitive styles of supervision, Am. J. Sociol, 3/64. Address: Dept. of Sociology, Washington State University, Pullman, Wash. 99163.

DAY, DR. WILLARD F(ARNSWORTH), JR, b. Staunton, Va, Oct. 24, 26; m. 55. EXPERIMENTAL PSYCHOLOGY. A.B, Virginia, 49, DuPont fels, 50-51, M.A, 51, Nat. Sci. Found. fel, 52, Ph.D.(psychol), 53. Res. assoc. psychoacoustics, Hopkins, 53-56; asst. prof. PSYCHOL, NEVADA, 56-61, ASSOC. PROF, 61- Nat. Inst. Ment. Health res. fel. U.S.A, 44-47, Sgt. Psychol. Asn. Analysis of behavior; behavior theory. Publ: Serial non-randomness in auditory differential thresholds as a function of interstimulus interval & Descriptive analysis of the non-randomness of serial threshold data, Am. J. Psychol; Randomness of threshold responses at long interstimulus intervals, Perceptual & Motor Skills. Address: Dept. of Psychology & Sociology, University of Nevada, Reno, Nev. 89507.

DAY, PROF. WILLIAM HENRY, b. Salt Lake City, Utah, June 27, 24; m. 43; c. 3. MARKETING. B.S, Utah, 47; Carson, Pirie Scott scholar, Northwestern, 47-48, M.B.A, 48; N.Y. Univ, 50; Ph.D.(mkt), Ohio State, 53; Harvard, 58. Instr. MKT, Utah, 49-50, lectr, 52-53, 55-56; assoc. prof, TULSA, 53-54, assoc. prof, 57-63, PROF, 63- John R. Park faculty scholar, Utah, 53-54. A.U.S, 44-46, Qm.C.Res, 46-57, Capt. Mkt. Asn.(secy-treas, pres. & v.pres, 57-65). Management. Publ: Financing public recreation facilities, Nat. Planning Asn, 61; Business policy cases, Irwin, 63; Petroleum marketing—practices and problems, Commercial Publishers, 66. Address: Dept. of Marketing, University of Tulsa, 600 S. College, Tulsa, Okla. 74104.

DAYHAW, PROF. LAWRENCE T(OUSSAINT), b. Ottawa, Ont, Nov. 1, 02; m. 42; c. 1. PSYCHOLOGY. B.A, Montreal, 31, lic.ph, 38; D.Ph.(psychol, ed), Louvain, 34. Mem. faculty, Christian Bros. Nor. Sch, Montreal, Can, 22-26, 28-31; Mt. St. Louis Col, 26-28, 34-40; inst. pedag, St-Georges, Montreal, 34-40; asst. prof. PSYCHOL, Fordham, 40-42, prof, 46-47; PROF. & V.DEAN, OTTAWA, 47-52, 53-, dir. personnel in indust, 52-53, mem. senate, bd. gov. & exec. cmt. bd. gov. U.S.A, 42-46, Capt. Can. Psychol. Asn. Statistics; industrial psychology; differential psychology; experimental design. Publ: La statistique. Address: Faculty of Psychology, University of Ottawa, Ottawa, Ont, Can.

DAYKIN, PROF. SAMUEL P(AUL), b. Taylorville, Ill, May 8, 11; m. 39; c. 2. SOCIAL WORK. A.B, Illinois, 32; M.S.W, Washington (St. Louis), 50, D.S.W, 56. Sociologist & actuary, State Div. Pardons & Paroles, Ill, 33-40; soc. worker, U.S. Dept. Army & Air Force, 40-61; ASSOC. PROF. SOC. WORK, OHIO STATE, 61- Prof, Am. Col. Paris, France, 67-68. Mem, Coun. Soc. Work Ed. U.S.A.F, 40-60, Lt. Col. Sociol. Asn. Job analysis studies or work study methods in public welfare; application of prediction techniques in probation and parole administration; application of democratic values in corrections. Publ: Use of prediction techniques in parole administration; Role of social work in preventive medicine program of the Armed Forces; Study of reasons airmen choose to re-enlist or leave the Air Force. Address: 6560 Worthington-Galena Rd, Worthington, Ohio 43085.

d'AZEVEDO, DR. WARREN L(EONARD), b. Oakland, Calif, Aug. 19, 20; m. 43; c. 2. ANTHROPOLOGY. B.A, California, Berkeley, 42; univ. fel, Northwestern, 57-58, Ford Found. fel, 59, Bollingen Found. fel, 60, Ph.D. (anthrop), 62. Lectr. ANTHROP, Northwestern, Chicago, 58; acting asst. prof, California, Berkeley, 58-59, lectr, exten. div, 59-60; vis. asst. prof, Utah, 60-62; asst. prof, Pittsburgh, 62-63; ASSOC. PROF, NEVADA, 63-, CHMN. DEPT, 67-, chmn. dept. sociol. & anthrop, 65-66. Nat. Sci. Found. anthrop. field training proj. grant, 64-; Soc. Sci. Res. Coun. grant field work in Africa, 66-67; Northwestern cross-cultural ethnocentrism proj. grant invest. in Africa, 67. U.S.N.R, 42-43. Anthrop. Asn; African Studies Asn. African and North American ethnology; comparative social organization; social and cultural change; religion and aesthetics. Publ: Some historical problems in the delineation of a Central West Atlantic region (Africa), Anthrop. & Africa Today, 62; Common principles of variant kinship structures among the Gola of Western Liberia, Am. Anthropologist, 62; ed, Current status of anthropological research in the Great Basin (1964), Univ. Nevada Desert Res. Inst, 66. Address: Dept. of Anthropology, University of Nevada, Reno, Nev. 89507.

DEABLER, DR. HERDIS LE ROY, b. Howell, Mich, Jan. 27, 10; m. 33; c. 4. PSYCHOLOGY. A.B, N.Cent. Col, 31; Beebe fel, Boston, 34-35, Ph.D.(psychol), 36. Field & personnel secy, N.Cent. Col, 36-37, personnel dir, 37-45, asst. prof. psychol, 37-41, prof, 41-45, prof. & head dept, 46-49; asst. prof. & sr. counsr, Minnesota, 45-46; chief clin. psychologist, Vet. Admin. Hosp, 49-60; area chief psychologist, Area Med. Off, Vet. Admin, 60-64; chief clin. psychologist, Vet. Admin. Outpatient Clin, Mass, 64-67; CHIEF PSYCHOL. SERV, VET. ADMIN. HOSP, 67- Ext. asst. prof, Mississippi, 50-60; clin. assoc, Boston, 60-67; assoc. prof, Mass. State Col. Boston, 62-67. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Clinical psychology; diagnosis and therapy of mentally disturbed individuals; Freud's view of

religion. Publ: Psychotherapeutic use of the thematic apperception test; Group psychotherapy in a neuropsychiatric hospital; Diagnosis of organicity by means of the spiral aftereffect. Address: Psychology Service, Veterans Administration Hospital, 1601 Perdido St, New Orleans, La. 70140.

DEAL, PROF. R(OY) W(ALTER), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

DEAL, DR. THERRY NASH, b. Statesville, N.C, Apr. 21, 35; m. 54; c. 2. CHILD DEVELOPMENT, PSYCHOLOGY. B.S, North Carolina, Greensboro, 57, M.S, 63, Ph.D.(child develop), 65; summer, Harvard, 64. ASST. PROF. CHILD DEVELOP, GEORGIA, 65- Nat. Coun. Family Rels; Soc. Res. Child Develop; Nat. Coun. Measurement in Ed; Home Econ. Asn. Cognitive development in young children. Publ: Co-auth, Testing the early educational and psychological development of children 3-6, Rev. Ed. Res, 68; auth, Implications of the conference for teacher training in early childhood education, 68 & co-auth, Georgia teacher-training—early childhood education, 68, J. Res. & Develop. in Ed. Address: 313 Dawson Hall, University of Georgia, Athens, Ga. 30601.

DeALESSI, DR. LOUIS, b. Turin, Italy, June 29, 32; nat; m. 59. ECONOMICS. A.B, California, Los Angeles, 54, M.A, 55, Ph.D, 61; Fulbright grant, England, 59-60. Asst. prof. ECON, DUKE, 61-65, ASSOC. PROF, 65- Vis. sr. economist, Inst. Defense Anal, Arlington, Va, 66-67. U.S.A, 55-57, 1st Lt. Econ. Asn; Economet. Soc. Price theory; economics of property rights. Publ: Economic theory as a language, Quart. J. Econ, 8/65; Demand for money: a cross-section study of British business firms, Economica, 8/66; The short run revisited, Am. Econ. Rev, 6/67. Address: 2624 McDowell St, Durham, N.C. 27705.

DEALEY, PROF. J(AMES) Q(UAYLE), JR, b. Providence, R.I, Sept. 21, 99; m. 32; c. 1. POLITICAL SCIENCE. A.B, Brown, 20; B.A, Oxford, 23, M.A, 28; Ph.D, Harvard, 28. Asst. prof, Western Reserve, 28-31; polit. sci, Hamilton Col, 31-33, assoc. prof, 33-46; hist. div, U.S. Dept. War, 46-47; PROF. POLIT. SCI, TOLEDO, 47-, chmn. dept, 54-65. U.S.A, 43-46, Lt. Col. Am. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Can. Polit. Sci. Asn. Foreign governments; intergovernmental relations. Address: Dept. of Political Science, University of Toledo, Toledo, Ohio 43606.

DEAN, PROF. BURTON V(ICTOR), Opers. Res, see 11th ed. Phys. & Biol. Vols. & Suppl. II & IV.

DEAN, DR. CHARLES, b. Estill Co, Ky, Nov. 9, 29. SOCIOLOGY. B.A, Asbury Col, 53; M.A, Illinois, 61, Ph.D.(sociol), 66. Instr. SOCIOL, Kentucky, 64-66, ASST. PROF, 66-67; SOUTH CAROLINA, 67- U.S.A.F, 50-51. Sociol. Asn. Parole prediction; correctional organization. Publ: Co-auth, Misinterpretations of significance levels in sociological journals, Am. Sociologist, 2/68 & A historical analysis of parole prediction, Social Probs, 3/68; auth, New directions in parole prediction research, J. Criminal Law & Criminol, 6/68. Address: 11-H Senate Plaza, Columbia, S.C. 29201.

DEAN, DR. C(HARLES) R(UFUS), b. Alba, Mich, Jan. 20, 25; m. 45; c. 4. ECONOMICS. S.B, Harvard, 45; Ph.D, Columbia, 60. Instr. ECON, Newark Col, Rutgers, 48-49; lectr, sch. gen. studies, Columbia, 50; City Col. New York, 50-52; instr, Harpur Col, State Univ. N.Y, 53-56; economist, Gen. Elec. Co, 56-60, antitrust settlement & litigation oper, 60-62; CONSULT. ECONOMIST, 62-; PRES, Marcom Econ, 63-64; C.R. DEAN ECON, INC, 65- U.S.N.R, 42-46, Ens. Econ. Asn; Statist. Asn; Asn. Bus. Econ; Pub. Health Asn. Industrial organization and control; price theory; economic development; health economics; manpower; antitrust. Publ: Industrial maturity and monopoly behavior. Address: 315 Central Park West, New York, N.Y. 10025.

DEAN, DR. CHARLES W(ILLIAM), b. Brackenridge, Pa, May 21, 23; m. 52; c. 3. CLINICAL & EXPERIMENTAL PSYCHOLOGY. B.A, Duquesne, 49; M.S, Pittsburgh, 50, Ph.D, 55. Staff psychologist, Methods Eng. Coun, 54-56; staff clin. psychologist, Vet. Admin. Hosp, Pittsburgh, Pa, 56-57; dir. psychol. serv, H.B. Maynard & Co, 57-59; res. scientist, Am. Inst. Res, 59-62; pres, Videre, Inc, 62-64; RES. ASSOC. PSYCHOL, GRAD. SCH. PUB. HEALTH, PITTSBURGH, 64- Res. consult, United Ment. Health Serv. Allegheny County, Pa, 62-64; Montefiore Hosp, Pittsburgh, 64-65. U.S.A, 43-46. AAAS; Psychol. Asn; Pub. Health Asn. Space sciences; neuroelectric phenomena; interdisciplinary research and communication; community mental health; health systems and organization. Publ: Comparison of normal and brain pathology groups on certain aspects of visual perception under conditions of intermittent illumination, Am. Psychologist; co-auth, Data flow: the general problem and a cognitive model, Aerospace Med. Div, Air Force Systs. Command, Wright-Patterson Air Force Base, Ohio, 5/62; A study of patterns of service to persons following psychiatric hospitalization in Allegheny County, Pennsylvania, United Ment. Health Serv. Allegheny County, 4/64. Address: 204 Indian Dr, Pittsburgh, Pa. 15238.

DEAN, DR. DAWSON FRANK, b. Lowell, Ohio, Mar. 27, 94; m. 18; c. 3. PSYCHOLOGY. B.S, N.Y. Univ, 30, Ph.D, 36. Prin, Lafayette Sch, Morristown, N.J, 36-40; jr. high sch, Nutley, 40-43; dir. civilian personnel training, War Dept, 43-45; personnel, Am. Home Prod. Corp, 45-58, chief consult. psychologist, 58-62; staff consult. psychologist, lab. psychol. studies, Stevens Inst. Tech, 62-64; private practice, 64- Instr, state teacher cols, Newark & Jersey City, 34-43; lectr, Columbia, 36-46; instr, State Voc. Div, N.J, 38-42; N.Y. Univ, 46-58, adj. asst. prof, 58-62. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 17-18, Ens. Fel. Psychol. Asn. Psychological testing in scientific personnel selection. Address: 44 Sylvan Dr, Morris Plains, N.J. 07950.

DEAN, DR. DOUGLAS A(RTHUR), b. Oswego, N.Y, June 17, 17. CLINICAL PSYCHOLOGY. Ph.D.(clin. psychol), Pa. State, 50. Asst. prof. psychol, Portland, 50-51; clin. psychologist, VET. ADMIN, Portland, Ore, 51-52, CHIEF CLIN. PSYCHOLOGIST, MILWAUKEE, 52- Lectr, Wisconsin, Kenosha, 67- U.S.A. 42-46. Psychol. Asn. Personality, clinical. Address: 1576 N. Warren Ave, Milwaukee, Wis. 53202.

DEAN, DR. DWIGHT G(ANTZ), b. McCluney, Ohio, Dec. 9, 18; m. 49; c. 2. SOCIOLOGY. A.B, Capital Univ, 43; B.D, Garrett Theol. Sem, 46; M.A, Northwestern, 47; Ph.D, Ohio State, 56. Instr. SOCIOL, Wright Br, Chicago City Jr. Col, 49-51; asst, Ohio State, 51-53; from instr. to asst. prof, Capital Univ, 53-59; from asst. prof. to assoc. prof. Denison, 59-68; PROF, IOWA STATE, 68- Fel. Sociol. Asn. Social psychology; family relations. Publ: Sociology in use, Macmillan, 65; Experiments in sociology, Appleton, 2nd ed, 67; Dynamic social psychology, Random, 68. Address: Dept. of Sociology, Iowa State University, Ames, Iowa 50010.

DEAN, PROF. GERALD W, b. Mason City, Iowa, Sept. 9, 30; m. 53; c. 3. AGRICULTURAL ECONOMICS. B.S, Iowa State, 52, M.S, 55, Ph.D, 57. Res. assoc. AGR. ECON, Iowa State, 55-57; asst. prof, CALIFORNIA, DAVIS, 58-61, assoc. prof, 61-66, PROF, 66- Fulbright res. grants, Italy, 62-63, 67-68. U.S.A, 52-54. Farm Econ. Asn; Econ. Asn. Farm management and agricultural production economics. Publ: Co-auth, Cost-size relationships for cash crop farms in a highly commercialized agriculture, J. Farm Econ; Interregional competition in turkeys, Univ. Calif. Hilgardia, 66 & Effects of the EEC tariff policy: a case study for oranges, Univ. Calif. Monogr, 67. Address: Dept. of Agricultural Economics, University of California, Davis, Calif. 95616.

DEAN, PROF. HOWARD E(DWARD), b. Braddock, Pa, June 17, 16; m. 41; c. 2. POLITICAL SCIENCE. A.B, California, Los Angeles, 39; Gilder fel, Columbia, 40-41, Ph.D.(pub. law & govt), 50. Tutor govt, City Col. New York, 41-42; instr, Columbia, 46-47; asst. prof. POLIT. SCI, Oregon, 47-56, assoc. prof, 56-61; PROF. & CHMN. DEPT, PORTLAND STATE COL, 61- Vis. prof, Washington (Seattle), 64. Consult, Bonneville Power Admin, 52-53; Fund Adv. Ed. faculty fel, Harvard Law Sch, 55-56. U.S.A, 42-45, 51-52. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Constitutional law; political and legal philosophy. Publ: Co-auth, Social sciences view school administration, Prentice-Hall, 65; auth, Judicial review and democracy, Random, 66; Walter Lippmann and the good society. Address: Dept. of Political Science, Portland State College, Portland, Ore. 97207.

DEAN, DR. JEFFREY STEWART, b. Lewiston, Idaho, Feb. 10, 39; m. 59. ANTHROPOLOGY, DENDROCHRONOLOGY. B.A, Arizona, 61, Ph.D.(anthrop), 67. Res. asst. DENDROCHRONOLOGY, LAB. TREE-RING RES, ARIZONA, 62-64, res. assoc, 64-66, instr, 66-67, ASST. PROF, 67- Summer asst, Mus. North. Ariz, 61. Soc. Am. Archaeol. Archaeological theory; archaeology of North America; archaeological tree-ring dating; interpretation of archaeological tree-ring dates; paleoclimatology of the North American Southwest. Publ: Co-auth, Tree-ring dates from Arizona E—Chinle - de Chelly - Red Rock area, Lab. Tree-Ring Res, Univ. Arizona, 66. Address: Lab. of Tree-Ring Research, University of Arizona, Tucson, Ariz. 85721.

DEAN, PROF. JOEL, b. Vershire, Vt, Oct. 5, 06. ECONOMICS. A.B, Pomona Col, 27; M.B.A, Harvard, 29; Ph.D, Chicago, 36; hon. Dr. Econ, Stockholm, 59, Turino, 65; hon. D.C.S, Pace Col, 64. Mem. staff, Int. Bus. Mach. Corp, 30-32; act. asst. prof, sch. bus, Indiana, 34, asst. prof, dept. econ, 34-39; asst. prof. & dir. inst. statist, Chicago, 39-45; PROF. BUS. ECON, GRAD. SCH. BUS. & GRAD. FACULTY POLIT. SCI, COLUMBIA, 45- Indust. engr, McKinsey, Wellington & Co, 37-38; pres, Joel Dean Assoc, Inc, 40-; dir, fuel rationing, Off. Price Admin, 41-44. With Nat. Bur. Econ. Res, 38-39; res. assoc, Cowles Cmn, 39-45; dir, One William St. Mem. antitrust cmt, U.S. Chamber Commerce, 67- Fel. Nat. Asn. Bus. Econ. Publ: Managerial economics; Capital budgeting; Statistical determination of costs. Address: 715 Uris Hall, Columbia University, New York, N.Y. 10027.

DEAN, PROF. JOHN H(ENRY), b. Oswego, N.Y, Mar. 22, 15; m. 46; c. 1. GEOGRAPHY. B.S, State Univ. N.Y, 46; M.A, Clark, 48, Ph.D.(geog), 54; Fulbright scholar, Brit. E.Africa, 50-52. From instr. to ASST. PROF. GEOL. & GEOG, HUNTER COL, 53- U.S.A.A.F, 42-46. Asn. Am. Geog; Geog. Soc. Land use in Africa; meteorology; cartography. Publ: Land use and settlement patterns in the Uganda Protectorate with special reference to stability and change in African societies. Address: Dept. of Geography, Hunter College, 695 Park Ave, New York, N.Y. 10021.

DEAN, PRENTICE N(ORTHUP), b. Scranton, Pa, Nov. 28, 97. ECONOMICS. A.B, Princeton, 20; M.A, American Univ. Beirut, 23. Instr. econ, Princeton, 26-27; asst. prof. finance, Pittsburgh, 27-34; economist, U.S. Tariff Cmn, 34-48; chief for. econ. policy div, Off. Secy. Defense, U.S. Dept. Defense, 48-64; LECTR. ECON, BUENA VISTA COL, 64- Econ. Asn. Address: 200 Otsego St, Storm Lake, Iowa 50588.

DEAN, DR. ROBERT D(ALE), b. Nortonville, Kans, Oct. 31, 33; m. 54; c. 2. ENGINEERING PSYCHOLOGY. B.S, Washington (Seattle), 56, M.S, 57; fel, Purdue, 57, Ph.D, 59. Asst. physiol. & biophys, Washington (Seattle), 56-57; systs. analyst, human factors sect, aerospace div, BOEING CO, 59-60, head mobile minuteman human factors group, 60, minuteman human factors group, 60-61, adv. ballistic missile concepts group, bioastronaut. sect, 61, crew performance group, 61-62, multiple stress lab, 62-66, CHIEF BEHAV. RES. LABS, 66- AAAS; Psychol. Asn. Human performance under conditions of multiple environmental stress; human decision making with unreliable information; systems analysis; effect of automation on skill requirements; electrocardiography; source of hunger drive. Publ: Motivation, morale and performance of mobile unit crews; Human stress in space, Sci. J, 12/66; Use of environmental stress in conjunction with simulation testing, Inst. Elec. & Electronics Eng, 7/67. Address: 315 Erie, Seattle, Wash. 98122.

DEAN, PROF. SANFORD J, b. Minneapolis, Minn, Dec. 20, 21; m. 43; c. 3. PSYCHOLOGY. B.A, Hamline, 48; M.A, Ohio State, 51, Ph.D.(psychol), 53. Asst. prof. PSYCHOL, Stanford, 53-56; SYRACUSE, 56-60, assoc. prof, 60-66, PROF. & DIR. CLIN. TRAINING PROG, 66- Nat. Inst. Ment. Health res. grant, 58-63. Consult, Vet. Admin, 54-; Ernie Davis Youth Center & Onondaga County Ment. Health Clin, N.Y, 67- U.S.A, 42-46, 50-51, Capt. Psychol. Asn; Psychonomic Soc. Human learning, especially autonomic conditioning and mediational processes. Publ: Co-auth, The investigation of psychotherapy, Wiley, 66. Address: Dept. of Psychology, Syracuse, University, 150 Marshall St, Syracuse, N.Y. 13210.

DEAN, DR. SIDNEY I(RWIN), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

DEAN, PROF. VEVA KATHERN, b. Cavalier, N.Dak, June 18, 05. POLITICAL GEOGRAPHY. A.B, N.Dak. State Teachers Col, 38; scholar, Clark, 38-39, A.M, 40, fel, 44-45; Ph.D, 49; sch. adv. int. studies, Hopkins, 44-45; Uppsala, 51. PROF. GEOG. & HEAD DEPT, E. Stroudsburg State Col, 48-54; MASS. STATE COL. FITCHBURG, 54- Sabbatical for travel & study in the Mid. East & East. Africa, 65-66. Am. Asn. Geog; Geog. Soc; Nat. Coun. Geog. Ed. Newfoundland; Middle East. Publ: Newfoundland, a study in political geography. Address: Dept. of Geography, State College at Fitchburg, Fitchburg, Mass. 01420.

DEANE, PROF. GEORGE EDWARD, Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DEANE, PROF. HERBERT A(NDREW), b. Brooklyn, N.Y, May 26, 21. POLITICAL SCIENCE. A.B, Columbia, 42, Cutting traveling fel, 50-51, Ph.D. (pub. law & govt), 53. Consult. polit. & legal philos, Rockefeller Found, 52-53; asst. prof. GOVT, COLUMBIA, 53-57, assoc. prof, 57-61, PROF, 61-, v.dean, grad. facilities, 65-67, acting dean, 67-68. Guggenheim Found. fel, 60-61. U.S.N.R, 42-46, Lt. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Political theory. Publ: The political ideas of Harold J. Laski; The political and social ideas of St. Augustine, Columbia, 63. Address: 520 Fayerweather Hall, Columbia University, New York, N.Y. 10027.

DEANE, PROF. STEPHEN R(USSELL), b. Leeds, Maine, Nov. 17, 11; m. 36; c. 2. PSYCHOLOGY. A.B, Bowdoin Col, 34; A.M, Harvard, 41; Ph.D, Maryland, 49. PROF. PSYCHOL, SIMMONS COL, 49-, CHMN. DEPT. PSYCHOL. & ED, 53- Spec. lectr, Am. Inst. Banking; sch. bus, Northeastern; staff assoc, Nat. Sci. Found, 65-66. U.S.N.R, 44-46, Lt. Psychol. Asn; Adult Ed. Asn. Industrial psychology, human motivation; adult education, evaluation and motivations. Publ: Sampling control in adult education and The interview as a tool of adult education research, Adult Ed. Bull; The ulpanim of Israel, Adult Leadership. Address: 37 Kirkland Circle, Wellesley Hills, Mass. 12181.

DEANE, DR. WILLIAM N(ELSON), Sociol, see 10th ed, Soc. & Behav. Vols.

DEARING, CHARLES LEE, b. Parkville, Mo, Sept. 4, 03. POLITICAL ECONOMY. A.B, George Washington, 29. Asst, Brookings Inst, 29-33; res. assoc, 33-45; sr. staff mem, 45-61, exec. dir, Ill. State Toll Hwy. Cmn, 61-68; RETIRED. Asst. dep. adminstr, Nat. Recovery Admin, 33-34; consult, U.S. Off. Defense Transportation, 42, dir. div. rev. & spec. studies, 42-44; dir. transportation Task Force, cmn. orgn. exec. br. govt, Hoover Cmn, 48-49; dep. undersecy. commerce for transportation, U.S. Dept. Commerce, 53-54. Econ. Asn. Publ: American highway policy; Industrial pensions; co-auth, Toll roads and the problem of highway modernization. Address: 880 N. Lakeshore Dr, Chicago, Ill. 60611.

DeARMON, IRA A(LEXANDER), JR, Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

DEASY, PROF. GEORGE F, b. Cincinnati, Ohio, Feb. 20, 12; m. 36. GEOGRAPHY. B.A, Cincinnati, 35, M.A, 36; Xavier (Ohio), 31-32; Chicago, 38; Ph.D.(geog), Clark, 48. Asst. geog, Cincinnati, 34-36, instr, 36-40; geogr, U.S. Dept. State, 40-41; U.S. War Dept, 42-47; from assoc. prof. to PROF. GEOG, PA. STATE, 47- Asn. Am. Geog.(treas, 59-, assoc. ed, 60-); Nat. Coun. Geog. Ed. Physical and economic geography. Publ: Co-auth, The world's nations; an economic and regional geography; Atlas of Pennsylvania coal and coal mining: part I, bituminous coal, Bull. Mineral Industs. Exp. Sta; Fuel competition in Pennsylvania's electric generating industry, Bull. Pa. Topographic & Geol. Surv. Address: Dept. of Geography, 438 Deike Bldg, Pennsylvania State University, University Park, Pa. 16802.

DEASY, PROF. LEILA C(ALHOUN), b. Mt. Vernon, Ga, June 21, 24; m. 50; c. 2. SOCIOLOGY. B.A, Ga. State Col. for Women, 45; M.A, Kentucky, 47; Ph.D.(sociol), Cornell, 53. Asst. prof. sociol, Winthrop Col, 49-50; vis. lectr, Elmira Col, 50-51; soc. sci. analyst, U.S. Pub. Health Serv, 51-53, res. sociologist, Nat. Inst. Ment. Health, 53-58; assoc. prof. SOC. RES, CATHOLIC UNIV, 58-65, PROF, 65-, DIR. RES, NAT. CATH. SCH. SOC. SERV, 58- Meridian Found. lectr, Wash. Int. House, 66- Mem. adv. cmt. adv. ed, Coun. Soc. Work Ed, 62-65. AAAS; fel. Sociol. Asn. Health and social class; child welfare; human problems of the urban environment; graduate education as a social system. Publ: Persons and positions: individuals and their social locations, 68 & Race, class, and participation in urban renewal, 68, Catholic Univ; co-auth, Urban negro and adoption of children, Child Welfare, 62. Address: 4400 Oxford St, Garrett Park, Md. 20766.

DEATHERAGE, DR. BRUCE H(AMPTON), b. Wichita Falls, Tex, Sept. 14, 21; m. 53. PSYCHOLOGY. Fel. & Ph.D, Texas, 53. Res. scientist, defense res. lab, Texas, 51-54; res. assoc, Cent. Inst. for the Deaf, 54-57; Nat. Insts. Health spec. res. fel, Chicago, 57-58; res. assoc, deafness res. lab, Children's Hosp, Los Angeles, Calif, 58-61; proj. dir. psychophys, TRACOR, INC, 61-67, MGR, PSYCHOL. SECT, 67- U.S.N, 42-46, Lt.(jg). Psychol. Asn; Physiol. Soc; Acoustical Soc. Physiological psychology and psychophysics of hearing; visual perception; engineering psychology. Publ: Figural after-effects in stroboscopic movement, Am. J. Psychol; On the audibility of intense ultrasonic sound & Binaural interaction of clicks of different frequency content, J. Acoustical Soc. Am. Address: Tracor Inc, 6500 Tracor Lane, Austin, Tex. 78721.

DeBAKEY, DR. LOIS, Med. & Sci. Commun, Ling, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

DeBARR, DR. EUGENE R(ICHARD), b. Tyrone, Pa, Aug. 14, 14; m. 56; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Bucknell, 52, M.A, 53; Ph.D, Western Reserve, 59. Correctional officer, Fed. Bur. Prisons, 47-49; instr. psychol, Bucknell, 53; instr. & counsr. personnel develop, Fenn Col, 53-54; caseworker, State Div. Child Welfare, Ohio, 54-56; dir. & supvr. community schs, Coun. Retarded Child, 56-57; supvr. county schs, state div. child welfare, 57-61, dir. County Schs. Severely Retarded, 61-63, SCH. PSYCHOLOGIST, PUB. SCHS, OHIO, 63- Lectr, Cuyahoga Community Col, 64-66. Consult. & chmn. adv. bd, Parents Vol. Asn. Retarded Children, 60-; consult, Cuyahoga County Nurses, 61; Broadview Center Retarded, 67. Mem. adv. bd, Circle Workshop, Inc, 60-; mem. Coun. Except. Children, 61. Psychol. Asn; fel. Asn. Ment. Deficiency. Retarded; curricula evaluation and family counseling development; special education; consulting psychology. Address: 620 Edgerly Rd, Cleveland Heights, Ohio 44121.

de BEERS, DR. JOHN S(TERLING), b. Evanston, Ill, July 7, 14; m. 39; c. 2. ECONOMICS. B.A, Cornell, 37; M.A, American Univ, 39; scholar, Chicago, 39-40, Ph.D, 51; Brookings fel, 40-41. Economist, U.S. Dept. Treasury, 41-43, 46-47, chief, Latin Am. Div, off. int. finance, 47-55; dir, econ. res. dept, Govt. Develop. Bank. P.R, 55-58; consult. econ, E M B, Ltd, 58-60; economist, INTER-AM. DEVELOP. BANK, 60-66, ASSOC. DIR. ECON. & SOC. DEVELOP. DIV, 66- Prof. lectr, Maryland, 58-60. Am. Econ. Asn; Soc. Int. Develop. International and national economics; finance. Publ: El Peso Mexicano, 1941-1949, Prob. Agr. & Indust. Mex; Study of Puerto Rico's banking system. Address: 5136 Newport Ave, Washington, D.C. 20016.

DEBICKI, PROF. ROMAN, b. Sambor, Poland, Jan. 20, 96; m. 33; c. 2. GOVERNMENT. Dipl, Konsular-Akademie, Vienna, 19; LL.M, Lwow, Poland, 28; Dr. rer. pol. For. Serv. officer, Polish Repub, 19-35, envoy & minister to Yugoslavia, 35-42, Cuba, Haiti & Dominican Repub, 42-45, diplomatic rep, Polish Govt. in Exile, 45-49; asst. prof. polit. sci, GEORGETOWN, 51-56, assoc. prof. GOVT, 56-61, EMER. PROF, 61- Grand Cross, Order of the Crown, Yugoslavia; Knight Comdr, Polonia Restituta, Poland; Legion of Honor, France. Polit. Sci. Asn. International relations and law; Eastern European area. Publ: Los lazos entre Cuba Y Polonia en el siglo XIX; Foreign policy of Poland, 1919-1939, Praeger, 62. Address: 3817 Veazey St. N.W, Washington, D.C. 20016.

DE BLIJ, PROF. HARM JAN, b. Schiedam, Netherlands, Oct. 9, 35; m. 64. GEOGRAPHY. B.Sc, Witwatersrand, 55; M.A, Northwestern, 57, fel, 58-59, Ph.D, 59. Lectr. geog, Northwestern, 59, asst. prof, 60-61; lectr. geog. & geol, Natal, 59-60; assoc. prof. GEOG, MICH. STATE, 61-67, PROF, 67-, ASSOC. DIR. AFRICAN STUDIES CENTER, 64- Int. Progs-Ford Found. res. grant, summer, 63; Midwest Univs. Consortium res. grant, 67-68. Asn. Am. Geog; Coun. Geog. Ed; African Studies Asn. Political geography of selected regions in Subsaharan Africa; urban geography of East African cities; geomorphic problems in Southern Africa. Publ: Dar es salaam: a study in urban geography, Northwestern, 63; A geography of Subsaharan Africa, Rand McNally, 64; Systematic political geography, Wiley, 67. Address: Dept. of Geography, Michigan State University, East Lansing, Mich. 48823.

DeBOER, PROF. LLOYD M(ARTIN), b. La Crosse, Wis, Nov. 20, 23; m. 48; c. 1. MARKETING, ECONOMICS. M.B.A, Harvard, 50; Ph.D.(bus), Illinois, 57. From instr. to asst. prof. mkt, Illinois, Urbana, 50-61, assoc. prof, 61-66; prof. bus. admin, Parsons Col, 66-67; vis. assoc. prof. advert, Illinois, Urbana, 67-68; PROF. MKT, KENT STATE, 68- U.S.A.A.F, 43-46. Econ. Asn; Mkt. Asn; Inst. Mgt. Sci. Marketing and advertising management and research. Publ: Co-auth, Manufacturer and distributor brands, Business management of frozen food locker and related plants & Water hardness and domestic use of detergents and additives. Address: Dept. of Marketing, Kent State University, Kent, Ohio 44240.

DeBOLD, DEAN RICHARD CHARLES, b. New York, N.Y, July 20, 27; m. 57. PSYCHOLOGY. B.A, California, Berkeley, 57, Ph.D.(psychol), 63; M.Sc, Yale, 58. Asst. prof. PSYCHOL, Wesleyan, 63-67; ASSOC. PROF. & DEAN, HOBART COL, 67- Nat. Sci. Found. & U.S. Pub. Health Serv. res. grants. AAAS; Psychol. Asn. Effects of experience on brain biochemistry. Publ: Co-auth, LSD, man and society, Wesleyan, 67 & Systematic modern psychology, McGraw, 68; auth, Current experiments in psychology, Prentice-Hall, 68. Address: Hobart College, Geneva, N.Y. 14456.

DEBONS, DR. ANTHONY, b. Mesida, Malta, Apr. 6, 16; nat; m. 48; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Brooklyn Col, 48; M.A, Columbia, 52, Ph.D.(exp. psychol), 54. Chief psychol. dept, Arctic Aeromed. Lab, Alaska, U.S. Air Force, 48-51, human resources res. officer, psychol. br, aeromed. lab, 53-55, chief visual displays sect, 55-57, chief human eng. lab, Rome Air Develop. Center, N.Y, 57-58, dep. dir. eng, 58-61, dir. systs. design lab, electronic systs. div, Hanscom Field, 61-62, dir. comput, 62-64; chmn. dept. psychol, DAYTON, 64-67, CHMN. DEPT. INFO. SCI, 67- Consult, Electronic Systs. Div, 64-65; U.S. Army Redstone Arsenal, Ala, 65-; Nat. Cash Register Co, 67- Mem. panel biol. & med. sci, cmt. polar res, Nat. Res. Coun-Nat. Acad. Sci. U.S.A.F, 42-64, Col. Nat. Acad. Sci; AAAS; Psychol. Asn; Optical Soc; Human Factors Soc. Behavioral problems involving extreme environmental conditions; vision and optics as related to human engineering; basic visual processes as related to the physiological components; development of information systems. Publ: Co-auth, Display systems engineering, McGraw, 67; auth, Changes in personality as the result of assignment to Alaska; Dark adaptation as a function of the intensity and distribution of light across the Peradaptation field. Address: 430 Volusia Ave, Dayton, Ohio 45409.

DEBREU, PROF. G(ERARD), b. Calais, France, July 4, 21; m. 45; c. 2. ECONOMICS, MATHEMATICS. Rockefeller fel, 48-50; D.Sc, Paris, 56. Res. assoc. econ, Nat. Center. Sci. Res, France, 46-48; Cowles Cmn. for Res. Econ, Chicago, 50-55; assoc. prof, Cowles Found. for Res. Econ, Yale, 55-60, vis. prof, 61; fel, Center Adv. Study Behav. Sci, 60-61; PROF. ECON, CALIFORNIA, BERKELEY, 62- French Army, 44-45. Econ. Asn; fel. Economet. Soc. Mathematical economics. Publ: Theory of value. Address: Dept. of Economics, University of California, Berkeley, Calif. 94720.

DE BURGER, DR. JAMES EDWARD, b. Madison, Ind, Apr. 26, 26; m. 46; c. 4. SOCIOLOGY, PSYCHOLOGY. B.A, Louisville, 59; M.A, Indiana, 61, Ph.D. (sociol, psychol), 66. ASST. PROF. SOCIOL, LOUISVILLE, 62- Nat. Sci. Found. Inst. res. grant, 65-67. Consult, Kent Sch. Soc. Work, Louisville & Nat. Teachers Corps, Lexington, Ky, 66- U.S.N.R, 44-66. Am. Sociol. Asn; Nat. Coun. Family Rels; Soc. Study Social Probs. Family as a socio-cultural setting for personality development; marital adjustment; social psychology of deviance and psychopathology. Publ: Marital problems, help-seeking, and

emotional orientations revealed by husbands and wives, J. Marriage & Family, 11/67. Address: Dept. of Sociology, University of Louisville, Louisville, Ky. 40208.

DECALO, DR. SAMUEL, b. Tel Aviv, Israel, Nov. 19, 38. POLITICAL SCIENCE. B.S, Ottawa, 61; M.A, Pennsylvania, 62, Ph.D.(polit. sci), 68. Instr. POLIT. SCI, Penn Morton Cols, 65-66; ASST. PROF, RHODE ISLAND, 66-, ACTING CHMN. DEPT, 67- Israel Defence Forces, 56-59. Polit. Sci. Asn; African Studies Asn; Royal African Soc; Int. African Inst. Comparative government; politics of developing world; African studies; psychology of politics. Publ: Tanzania: an introductory bibliography, Univ. Rhode Island, 3/68; Israeli foreign policy and the third world, Orbis, fall 67; Africa and the mideastern war, Africa Report, 10/67. Address: 38 Washington St, Wakefield, R.I. 02879.

deCANI, DR. JOHN S(TAPLEY), b. Canton, Ohio, May 8, 24; m. 55. STATISTICS. B.S, Wisconsin, 48; M.B.A, Pennsylvania, 51, Ph.D.(statist), 58. Instr. STATIST, PENNSYLVANIA, 48-58, asst. prof, 58-63, ASSOC. PROF, 63- Fulbright lectr, Norwegian Sch. Econ, 59-60. Consult, U.S. Naval Air Develop. Center, 58-; Auerbach Corp, 63-; Nat. Asn. Adv. Colored People Legal Defense & Ed. Fund, 66- Linback Found. award, 64. U.S.A.A.F, 43-45, Sgt. Statist. Asn; Economet. Soc; Inst. Math. Statist; Biomet. Soc; Math. Asn. Probability models in the theory of production; dynamic programming and stochastic processes; applications of probability theory to problems in racial discrimination. Publ: Queueing model for business students, Mgt. Sci; Some stochastic models of migration, Regional Sci; co-auth, Technological changes in U.S, 1950-1960, Proc. Am. Statist. Asn. Address: E220 Dietrich Hall, University of Pennsylvania, Philadelphia, Pa. 19104.

DÉCARIE, PROF. THERESE GOUIN, b. Montreal, Que, Aug. 8, 23; m. 48; c. 4. DEVELOPMENTAL PSYCHOLOGY. B.A, Montreal, 43 & 44, M.A, 47, Ph.D.(psychol), 60. Lectr. DEVELOP. PSYCHOL, MONTREAL, 48-50, asst. prof, 50-51, assoc. prof, 51-61, PROF, 61- Lectr, McGill, 59-; res. grants, Can. Coun. Med. Res, 65-68 & Can. Coun, 66-67. Consult, Montreal Inst. Rehab, 65; Montreal Children's Hosp, 67. Soc. Res. Child Develop; Can. Psychol. Asn. Genesis of symbolism in the developmental psychologies of Jean Piaget; psychoanalysis. Publ: Relations between affectivity and intelligence in the child, Int. Univs, 65; Le développement psychologique de l'enfant. Address: Institute of Psychology, University of Montreal, Montreal, Que, Can.

DE CECCO, DR. JOHN PAUL, JR, b. Erie, Pa, Apr. 18, 25. PSYCHOLOGY, EDUCATION. B.S, Allegheny Col, 46; M.A, Pennsylvania, 49, Ph.D, 53; Mich. State, 56-60. Instr. hist, Detroit, 53-55; from instr. to asst. prof. ed. psychol, Mich. State, 55-60; PROF. PSYCHOL. & ED, SAN FRANCISCO STATE COL, 60- Summer vis. prof, British Columbia, 63. Consult, Hillsborough Sch. Syst, 62-63; San Francisco Unified Sch. Syst, 63-65. Learning and instruction; programed instruction; the teaching of school subjects; psycholinguistics and language development. Publ: Human learning in the school, 63 & Psychology of language, thought, and instruction, 67, Holt; Psychology of learning and instruction, Prentice-Hall, 68. Address: Dept. of Psychology, San Francisco State College, San Francisco, Calif. 94132.

DeCENCIO, DR. DOMINIC VINCENT, b. Philadelphia, Pa, Apr. 15, 38; m. 60; c. 1. PSYCHOLOGY. A.B, Temple, 59, M.A, 61, Ph.D.(psychol), 66. Chief psychologist, Moss Rehab. Hosp, 64-66; ASST. PROF. PHYS. MED. & REHAB, SCH. MED, TEMPLE, 65-, DIR. TRAINING, REGIONAL REHAB. RES. & TRAINING CENTER & CHIEF PSYCHOLOGIST, HEALTH SCI. CENTER, 66- Consult, prfnl. develop. cmt, Am. Cong. Rehab. Med, 66- AAAS; Psychol. Asn; Cong. Rehab. Med. Neuropsychology; effects of chronic illness and physical disability on personality; attitudes toward rehabilitation medicine. Publ: Self-social constructs of normals and acute neuro-psychiatric patients, J. Consult. Psychol, Vol. 28, No. 1; A professional response set—dogmatism, J. Clin. Psychol, Vol. XX, No. 2; Attitudes of medical students toward physical medicine, Arch. Phys. Med. & Rehab, 68. Address: Dept. of Physical Medicine & Rehabilitation, School of Medicine, Temple University, Broad & Ontario Sts, Philadelphia, Pa. 19140.

deCHARMS, PROF. RICHARD, IV, b. Wilkes Barre, Pa, Dec. 13, 27; m. 52. SOCIAL PSYCHOLOGY. B.A, Swarthmore Col, 52; M.A, Wesleyan, 54; Ph.D, North Carolina, 56. Asst. prof. ED. & PSYCHOL, WASHINGTON (ST. LOUIS), 57-61, assoc. prof, 61-65, PROF, 65-, PRIN. INVESTR. PSYCHOL, SOC. SCI. INST, 58- U.S.N.A.F, 46-50, Lt.(jg). AAAS; Psychol. Asn. Experimental social psychology; human motivation. Address: Dept. of Education & Psychology, Washington University, St. Louis, Mo. 63130.

DECHERT, PROF. CHARLES R(ICHARD), b. Philadelphia, Pa, Mar. 16, 27; m. 57; c. 1. POLITICAL SCIENCE. A.B, Catholic Univ, 49, Knights of Columbus fel, 49-52, M.A, 50, Ph.D.(polit. philos), 52. Instr, Our Lady of the Lake Col, 53-54; analyst, Off. Secy. Defense, 55-56; Mazzini fel. & asst. to dir, sch. adv. int. studies, Bologna Center, Hopkins, 56-57; vis. prof. comp. polit. econ. & soc. policy & dir, N.Am. Inst, Int. Univ. Social Studies Pro Deo, Rome, 57-59; assoc. prof. govt, Purdue, 59-65, PROF. polit. sci, 65-67; POLIT, CATHOLIC UNIV, 67- Fulbright award, Italy, 65-66. Consult, Italian Ministry Justice; U.S. Cong. Joint Econ. Cmt; grad. sch. bus, Columbia; Inst. Training in Indust; Holland Elec. Co; Inst. Defense Analyses; Sci. Res. Assocs. Harmon prize philos. anthrop, 64. U.S.A.F, 52-55, 1st Lt. Polit. Sci. Asn; Soc. Gen. Systs. Res; Soc. Cybernet. Political theory; comparative politics; science and public policy; international non-public organization. Publ: Ente nazionale idrocarburi: profile of a state corporation, Leiden, Brill, 63; ed. & co-auth, The social impact of cybernetics, Univ. Notre Dame, 66 & Simon & Schuster, 67; co-auth, Congress: the first branch of government, Am. Enterprise Inst, 66 & Doubleday, 67. Address: 132 12th St. N.E, Washington, D.C. 20002.

DE CICCO, DR. ERNEST MICHAEL, b. Wakefield, Mass, Sept. 16, 23; m. 52. ECONOMICS. B.S, New Hampshire, 49, fel, 49-50, A.M, 51; fel, Virginia, 57-58; Ph.D, Boston, 62. Wage analyst labor rels, U.S. Wage Stabilization Bd, 51-52; instr. ECON, Loyola, 52-57; Boston, 58-62; ASSOC. PROF, NORTHEASTERN, 62- Ford Found. faculty res. fel, Harvard, 63-64. U.S.A.A.F, 43-46, Sgt. Econ. Asn; Indust. Rel. Res. Asn; Am. Acad. Arts & Sci. Wages, costs, prices and productivity in basic steel industry; returns to human capital invested in education, especially medical practice; Russian economy; economics of leisure and culture. Publ: Co-auth, Automation in the grey iron industry, U.S. Dept. Labor, 64; auth, Solving the doctor dilemma & Four day week, New Leader. Address: Dept. of Economics, Northeastern University, Boston, Mass. 02115.

DECKER, C(ARMEN) C(LYDE), b. Elwood, Ind, Apr. 23; 96; m. 20; c. 2. SOCIOLOGY. Th.B, Marion Col.(Ind), 32, A.M, 33, A.B, 46; A.M, Indiana, 47. Missionary & teacher, Am. Wesleyan Mission Theol. Sem, W.Africa, 21-28, 38-41; prof. sociol, Taylor, 47-51; Jackson Col, Honolulu, 51-52; Sterling Col, 52-60, Tampa, 60-65; RETIRED. U.S.A, 43-46, Chaplain. Sociol. Asn; Soc. Study Social Probs. Family and intergroup relations; sociology of religion. Publ: This is the Word of God. Address: 5375 Flamingo Dr. N, St. Petersburg, Fla. 33714.

DECKER, PROF. JOHN A(LVIN), b. Clarence, Iowa, Sept. 25, 00; m. 29; c. 2. INTERNATIONAL RELATIONS. A.B, Grinnell Col, 21; Yale, 24-25; Union Theol. Sem, 25-26; Roberts fel, Columbia, 27-29, 31-32, A.M, 28, Ph.D, 40. Prof. Far East. hist, Floating Univ. World Cruise, 28-29; PROF. INT. RELS, STEPHENS COL, 29-, dir. lect. series for. affairs, 37-68, chmn. div. soc. studies, 41-65. Mem. coop. study in gen. ed. staff, Chicago, 42-46; mem. staff, citizenship ed. proj, Teachers Col, Columbia, 52-56; curriculum consult, Okla. Col. Lib. Arts, 66-68. Polit. Sci. Asn; Coun. Soc. Studies; Asn. Asian Studies. Citizenship training in general education; Far East history. Publ: Labor problems in Pacific mandates; contrib, Contemporary social issues course at Stephens College, Soc. Sci. Gen. Ed. & Training for civic leadership, Explor. Gen. Ed. Address: Division of Social Studies, Stephens College, Columbia, Mo. 65201.

DECKER, PROF. KEITH M, b. Detroit, Mich, Mar. 27, 16; m. 41; c. 5. PHYSICAL GEOGRAPHY. B.S, Cent. Mich. Col, 39; M.S, Michigan, 41, fel, 46-47. Asst. prof. GEOG, CENTRAL MICHIGAN, 47-60, ASSOC. PROF, 60- U.S.A, 41-46, 1st Lt. Asn. Am. Geog. Land economics and use; Pleistocene geology, especially the Great Lakes region. Publ: Early pioneer homesteads in central Michigan, Papers-Mich. Acad. Sci. Arts & Letters, 59. Address: Dept. of Geography, Central Michigan University, Mt. Pleasant, Mich. 48858.

DECKER, DR. LOUIS RICHARD, b. Herkimer, N.Y, Oct. 24, 25; m. 52; c. 2. PSYCHOLOGY. B.S, American Univ, 50, M.A, 53, Ph.D.(psychol), 63. Res. psychologist, opers. appl. lab, Cambridge Res. Center, U.S. Dept. Air Force, 54-59; assoc. psychologist human eng, Dunlap & Assoc, 59-64; PRES, LOUIS R. DECKER ASSOC, INC, 64- Psychol. Asn; Statist. Asn; Personnel & Guid. Asn. Psycholinguistics; psychoacoustics; personnel psychology and human engineering; vocational training programs. Address: Louis R. Decker Associates, Inc, Suite 610, World Bldg, Silver Spring, Md. 20910.

DECKER, DR. PAUL MILTON, b. Columbus, Ohio, Oct. 20, 12; m. 43; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Bethune-Cookman Col, 54; M.A, Stetson, 55; South. Fel. Fund fel, Colo. State Col, 57-58, Ed.D.(psychol), 58. Asst. indust. engr, Kroger Packing Co, 35-45; private practice, 45-53; dir, Fla. Inst. Voc. Res, 53-54; instr. psychol, BETHUNE-COOKMAN COL, 54-58, HEAD DEPT. PSYCHOL. & DIR. INSTNL. RES, 58- Intern, Vet. Admin, 64-65; South. Fel. Funds res. fel, 67-68; summer vis. prof, Colo. State Col, 61. Voc. consult, U.S. Dept. Health, Ed. & Welfare, 64- Private practice, 60-65. Psychol. Asn. Psychology of Negro education; branching programmed instruction; family relations and vocational counseling. Publ: Study of white teachers in selected Negro colleges & Study of job opportunities in state of Florida for Negro college graduates, J. Negro Ed; contrib. & ed, Special problems in Negro college education, Bethune-Cookman Col. Res. J. Address: 385 Woodland Ave, Datona Beach, Fla. 32018.

DECKER, DR. ROBERT JAY, b. Woodbine, N.J, Aug. 14, 16; m. 37; c. 2. CLINICAL & EDUCATIONAL PSYCHOLOGY. B.S, Temple, 56, Ed.M, 57, Ed.D, 60. Clinician, reading clin, Temple, 58-60; fel. psychol, East. Pa. Psychiat. Inst, 60-61; psychologist, Pathway Sch, 61-63; supv. psychologist, 63-64, chief psychologist, 64-66; clin. dir, Reading Counseling Center, 66; ASSOC. & CLIN. DIR, ASHBOURNE SCH, 66- U.S.N, 45-46. Am. Psychol. Asn; Soc. Proj. Tech; Coun. Except. Children; Fedn. Am. Sci. Psychodiagnostics; psychotherapy; evaluation and treatment of learning disorders, especially of brain injured and ego-disturbed children; psycholinguistics. Publ: Co-auth, Manifestations of the brain damage syndrome in historical and psychological data & Manifestations of the brain damage syndrome in school, Childhood aphasia and brain damage, vol. 1, 64. Address: E102 Oak Hill, 1650 Oakwood Dr, Penn Valley, Narberth, Pa. 19072.

DECKER, DR. ROBERT L(EE), b. Sand Fork, W.Va; m. 54; c. 1. INDUSTRIAL PSYCHOLOGY. B.A, West Virginia, 48, fel, 48-49, M.A, 49; Ph.D, Carnegie Inst. Tech, 53. Mem. staff, indust. rels. div, Procter & Gamble Co, 52-55; from instr. to asst. prof. PSYCHOL, WEST VIRGINIA, 55-62, ASSOC. PROF, 62- Consult, Sterling Faucet Co, 56. U.S.N.R, 44-46. Psychol. Asn. Industrial selection; opinion and attitude. Publ: Relationship between span of apprehension and reading speed, Proc. W.Va. Acad. Sci; Study of three specific problems in the measurement and interpretation of employee attitudes, Psychol. Monogr; Item analysis of how to supervise using both internal and external criteria, J. Appl. Psychol. Address: Dept. of Psychology, West Virginia University, Morgantown, W.Va. 26506.

DECKERT, DR. GORDON HARMON, b. Freeman, S.Dak, May 18, 30; m. 51; c. 2. PSYCHIATRY. B.S, Northwestern, 52, M.D, 55. Clin. asst. PSYCHIAT, MED. CENTER, OKLAHOMA, 59-62, clin. assoc, 62-63, instr, 63-64, ASST. PROF, 64-, DIR. OUTPATIENT PSYCHIAT. CLIN, 66- U.S.A.F, 57-59, Capt. Am. Med. Asn; Psychiat. Asn; Soc. Clin. & Exp. Hypnosis; Asn. Psychophysiol. Study Sleep; Soc. Psychophysiol. Res. Psychophysiology of imagery. Address: Dept. of Psychiatry, University of Oklahoma Medical Center, 800 N.E. 13th St, Oklahoma City, Okla. 73104.

DeCONDE, PROF. ALEXANDER, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DeCOU, PROF. DONALD F(RANK), b. Bartlett, Kans, Dec. 22, 02; m. 31; c. 3. ECONOMICS. B.S, Kansas State Teachers Col, 29; M.B.A, Northwestern, 33. Instr, Chicago Jr. Col, 34; asst. prof. ECON, Bethany Col.(Kans), 34-40, prof. & head dept, 40-47; ASSOC. PROF, KANSAS STATE, 47- Univ. Wisconsin Grad. Sch. Banking prof. fel, 64-66. Economist & tax consult, Midwest Petrol. Co. Econ. Asn; Finance Asn. Short term credit; public finance. Address: 2912 Sunnyside Dr, Manhattan, Kans. 66502.

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DEDRICK, DR. CALVERT LAMPERT, b. San Diego, Calif, Aug. 25, 00; m. 27; c. 2. STATISTICS. B.A, Wisconsin, 24, Ph.D.(sociol), 33. Soc. Sci. Res. Coun. fel, Chicago & Columbia, 33-34; soc. sci. analyst, Cent. Statist. Bd, 34-35; from asst. chief to chief statist. res, Census Bur, Wash, D.C, 35-42; chief economist, U.S. War Dept, 42-45; chief govt's. div, CENSUS BUR, 45-46, coordinator int. statist, 46-66, ASST. TO DIR, 66- Statist. Asn. (v.pres, 42); Sociol. Asn; Pop. Asn; Int. Union Sci. Study Pop. Collection and compilation of accurate demographic statistics; organization of governmental statistical agencies; population of Latin America. Address: Bureau of the Census, Washington, D.C. 20233.

DEE, DR. JAMES P(HILLIP), b. Philadelphia, Pa, Nov. 16, 27; m. 58; c. 1. MANAGEMENT, SPEECH. A.B, Florida, 48; M.A, Missouri, 50; Ph.D, Ohio State, 57. Instr. speech, Colorado, 50-54; lectr. speech, econ. & bus. admin, Far East Div, Univ. Maryland, 57-59; asst. prof. speech, Syracuse, 59-62; assoc. prof, mgt. training serv, Pa. State, 62-66; prof. indust. commun, Bowling Green, 66-68; DIR. MGT. DEVELOP, & ED, INGERSOLL-RAND CO, 68- Speech Asn. Am; Nat. Soc. Study Commun; Indust. Rels. Res. Asn. Communication within labor and management organizations and between labor and management; economics. Address: 21 Upper Dr, Berkeley Heights, N.J. 07922.

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DEETS, DR. LEE EMERSON, b. Emerson, Ill, May 4, 98. SOCIOLOGY. A.B, Northwestern, 21; A.M, Columbia, 24, Ph.D, 39. Asst. prof. sociol, South Dakota, 26-39, chmn. dept, 30-39, assoc. prof, 39; instr. sociol. & anthrop, Hunter Col, 39-47, from asst. prof. to assoc. prof, 47-67; RETIRED. Sociol. Asn. Social groups, Latin America; process frame of reference. Address: 100 La Salle St, Apt. 21-G, New York, N.Y. 10027.

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DeFLEUR, PROF. MELVIN L(AWRENCE), b. Portland, Ore, Apr. 27, 23; m. 46. SOCIOLOGY. B.S, St. Louis, 49; M.S, Washington (Seattle), 52, fel, 52-53, Ph.D.(sociol), 54. Res. sociologist, pub. opinion lab, Washington (Seattle), 53-54; from instr. to assoc. prof. SOCIOL, Indiana, 54-63; PROF, Kentucky, 63-67; WASHINGTON STATE, 67- Fulbright prof, Argentina, 61-62. U.S.M.C, 41-45. Am. Sociol. Asn; Argentine Sociol. Soc. Social psychology; methods and statistics; social theory. Publ: Co-auth, Flow of information, Harper, 58; auth, Theories of mass communication, McKay, 67; Curso de metodos y técnicas de investigación social, Ediciones Esnaola, Buenos Aires, 65. Address: Dept. of Sociology, Washington State University, Pullman, Wash. 99163.

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DEGLER, PROF. CARL N(EUMANN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DEGLER, PROF. CARROLL M, b. Westphalia, Kans, Aug. 9, 03; m. 29; c. 2. ECONOMICS. A.B, Kansas, 25; M.B.A, N.Y. Univ, 27-28, 36-37; summers, Columbia, 29, 31, 32, 33. From instr. to PROF. BUS. & ECON, WHITTEMORE SCH, NEW HAMPSHIRE, 28- Exec. mgr, N.H. War Finance Cmt, U.S. Dept. Treas, 43-46; mem, Indust. Adv. Cmt, 50-63. Econ. Asn. Industrial and financial problems in New Hampshire; money and banking; finance. Address: Dept. of Economics, Whittemore School, University of New Hampshire, Durham, N.H. 03824.

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DeGRAFF, DR. HERRELL, b. Murray, N.Y, Aug. 12, 08; m. 30; c. 2. FOOD ECONOMICS. B.S, Cornell, 37, Ph.D.(agr. econ), 41; Chicago, 41-42. Instr. land econ, N.Y. State Col. Agr, Cornell, 40-41, asst. prof, 41-45, assoc. prof, 45-47, prof, 47-51, Babcock prof. food econ, grad. sch. nutrit, 51-62; exec. v.pres, AM. MEAT INST, 62-63, PRES, 63- Cornell traveling fel, Europe, 47; Rockefeller Found. fel, Mex, 49; econ. res. dir, Nat. Livestock & Meat Bd, 60-61. Consult, Rockefeller Found. Agr. Prog, Mex, 52, Colombia, 53; U.S. Dept. Agr, 55-60. Mem, acad. adv. bd, Am. Enterprise Asn, 55-62, chmn, 58-62; mem, Inst. Conf. Agr. Econ. Distinguished Serv. award, Am. Dairy Asn, 54; Am. Farm Bur. Fedn, 59. Agr. Econ. Asn; Can. Farm. Econ. Asn; Brit. Farm. Econ. Asn. Food production, distribution and consumption; world agricultural geography; population and food supply; food economics. Publ: Beef production and distribution; co-auth, Business of farming. Address: American Meat Institute, 59 E. Van Buren St, Chicago, Ill. 60605.

De GRAZIA, PROF. ALFRED, b. Chicago, Ill, Dec. 29, 19; m; c. 7. BEHAVIORAL SCIENCE. A.B, Chicago, 39, Ph.D, 48; Columbia, 40-41. Asst. prof. polit. sci, Minnesota, 48-50; assoc. prof, Brown, 50-52; Stanford, 52-57, exec. officer, cmt. res. soc. sci, 52-55; PROF. SOC. THEORY IN GOVT, GRAD. SCH. ARTS & SCI, N.Y. UNIV, 57-, DIR. RES. PROG. REP. GOVT, 66- Res. assoc, opers. res. off, Hopkins, 51-52. Consult, First Hoover Cmn. Orgn. Exec. Br. Govt, 48; Republican Nat. Cmt, 64; U.S. Dept. State, 66-; U.S. Info. Agency. Founder & ed, Am. Behav. Scientist, 57-66. First pres, Found. Voluntary Welfare, 57-59; mem. U.S. del, UNESCO, 60; chmn, Republican Party Res. Cmt, New York, 61; designer computerized reference

retrieval syst, Universal Reference Syst, 62-67; coordinator, Am. Enterprise Inst. Pub. Policy Res. Studies of Cong, 65-67; mem. adv. bd, Simulmatics Corp, 67; chmn. bd, Princeton Info. Tech, Inc, 67-; mem, Mediterranean Soc. Sci. Res. Coun. Polit. Sci. Asn; Fedn. Am. Scientists; Asn. Pub. Opinion Res; Int. Polit. Sci. Asn. Political behavior; research and methodology in behavioral science; human relations in administration. Publ: Political behavior and organization, Vols. I & II, 62; Republic in crisis; congress against the executive force, 65; The Velikovsky affair, 66. Address: Dept. of Politics, Graduate School of Arts & Science, New York University, Washington Square, New York, N.Y. 10003.

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de HERNANDEZ, DR. MIGUELINA, Ed. Psychol, Psychomet, see 10th ed, Soc. & Behav. Vols.

DEHNER, PROF. ALBERT H(AROLD), b. Portsmouth, Ohio, Jan. 27, 14; m; c. 2. BUSINESS ADMINISTRATION. B.S, Ohio State, 36, M.B.A, 39, Ph.D, 50, LL.B, 53. Instr, Fenn Col, 39; asst. prof, Ore. State Col, 40-47; PROF. finance, Tennessee, 47-54; bus. admin, Florida, 54-58; Willamette, 58-60; BUS. ADMIN, PORTLAND STATE COL, 60- U.S.A.A.F, 42-46. Analysis of the price movements of securities; experiencing stock split-ups, reverse splits and stock dividends; newer trends in filed warehouse financing. Publ: Housing, In: Encyclop. Britannica Book of Year. Address: School of Business Administration, Portland State College, Portland, Ore. 97207.

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DEIN, PROF. RAYMOND C(HARLES), b. Powell, Nebr, June 26, 05; m. 42; c. 1. ECONOMICS, ACCOUNTING. B.Sc, Nebraska, 30, M.A, 35; Ph.D. (econ), Minnesota, 44. Instr. ACCT, Nebraska, 32-38; Minnesota, 39-42; asst. prof, Arkansas, 45, assoc. prof, 46; NEBRASKA, 48-51, PROF; 51- Asst. prof, Wisconsin, 46-48. Mem. panel, Ed. Consult. to Comptroller Gen. of U.S, 62-67. Acct. Asn.(pres, 62). Public utilities. Publ: Chap. 8, In: Modern accounting theory, Prentice-Hall, 66; Price level adjustments: fetish in accounting & Original cost and public utility regulation, 49, Acct. Rev. Address: 1916 Dakota St, Lincoln, Nebr. 68502.

DEININGER, PROF. MARIAN MacNEIL, b. Minneapolis, Minn, Sept. 22, 15. SOCIOLOGY, ANTHROPOLOGY. B.A, Minnesota, 49, M.A, 52, fel, 52-54, Ph.D.(sociol), 58. Cost acct & purchasing agent, Rilling Co, 35-47; statist. clerk & asst. sociol, Minnesota, 47-52; instr, North Carolina, Greensboro, 55-58, asst. prof. child develop. & family life, 58-59, residence counsr, 55-59; instr. sociol, Stout State, 54-55, asst. prof, 59-61, assoc. prof, 61-65, prof. sociol. & chmn. dept. soc. sci, 65-68; PROF. SOCIOL, ST. CLOUD STATE COL, 68- Sociol. Asn; Rural Sociol. Soc. American ethnic groups; community organization; American Indian cultures; cultural change; industrial sociology. Publ: Co-auth, Appraisal of tape recorded interviews for research purposes & Sources of help and information concerning young children, N.C. Agr. Exp. Sta. Res. Report; co-auth, Study of land ownership by ethnic groups from frontier times to the present in a marginal farming area in Minnesota, Land Econ. Address: Dept. of Sociology & Anthropology, St. Cloud State College, St. Cloud, Minn. 56301.

DEININGER, DR. RICHARD L(OUIS), b. Knoxville, Tenn, Dec. 9, 28; m. 55; c. 2. ENGINEERING PSYCHOLOGY. B.S, Carnegie Inst. Tech, 50, M.S, 52; Nat. Sci. Found. fel, Ohio State, 53-55, Ph.D.(exp. psychol), 55. MEM. TECH. STAFF, TEL. STUDIES LAB, BELL TEL. LABS, 58- U.S.A.F, 55-58, 1st Lt. AAAS; Psychol. Asn; Inst. Elec. & Electronics Eng. Man-machine systems; human information processing. Address: Bell Telephone Labs, Holmdel, N.J. 07733.

DEITCHE, DR. JOHN HOWARD, b. U.S, Nov. 3, 29. PSYCHOLOGY. B.S, Indiana, 51; summer, Ball State Teachers Col, 55; fel, Indiana, 58, Ph.D, 59. Dist. credit mgr, Magnavox Radio & TV Co, Inc, 52-55; teaching assoc. ed. psychol, Indiana, 56-58; psychologist, Ft. Wayne State Sch, 58-67; ASST. TO SUPT, FT. WAYNE STATE HOSP. & TRAINING CENTER, 67- Lectr, exten.

divs, Indiana & Purdue, 59-; St. Francis Col, 61- U.S.M.C, 51-52; U.S.A.R, 55-, 1st Lt. Psychol. Asn; Asn. Ment. Deficiency. Mental retardation. Address: 4501 Austin Dr, Ft. Wayne, Ind. 46806.

de JANOSI, DR. PETER E(NGEL), b. Pecs, Hungary, June 26, 28; nat; m; c. 1. ECONOMICS. B.A, Wesleyan, 50; M.A, Michigan, 51, Ph.D, 56. Asst. study dir, surv. res. center, Michigan, 51-53, study dir, 54-56; economist, Standard Oil Co, N.J, 56-62; PROG. OFFICER, FORD FOUND, 62- Adj. assoc. prof, N.Y. Univ, 57- Econ. Asn; Economet. Soc; Statist. Asn. Consumer behavior; econometric models and their use in forecasting. Publ: Factors influencing the demand for new automobiles, J. Mkt; Statistical discrepancy in the national accounts, Econometrica; Provisional estimates of the gross national product, J. Bus. Address: 525 E. 86th St, New York, N.Y. 10028.

de JANVRY, DR. A. CHOPPIN, b. Versailles, France, Aug. 3, 39; m. 67. ECONOMETRICS. Engr, Nat. Inst. Agron, Paris, 62; M.A, California, Berkeley, 65, Ph.D.(agr. econ), 66. ASST. PROF. AGR. ECON, CALIFORNIA, BERKELEY, 66- Consult, Wells Fargo Bank, San Francisco, 67- Economet. Soc; Statist Asn; Agr. Econ. Asn. Microeconomics. Publ: Co-auth, Measurement of demand, Econometrica, 68. Address: Dept. of Agricultural Economics, Giannini Hall 207, University of California, Berkeley, Calif. 94720.

DeJARNETTE, PROF. DAVID L(LOYD), b. Bessemer, Ala, June 2, 07; m. 35; c. 1. ANTHROPOLOGY. B.S, Alabama, 29, M.A, 57. Curator, Mus. Natural Hist, Alabama, 29-49; dir, Am. Mus. Atomic Energy & chmn, mus. div, Oak Ridge Inst. Nuclear Studies, 49-53; ARCHAEOLOGIST-IN-CHARGE, MOUND STATE MONUMENT, 53-; ASSOC. PROF. ANTHROP. & CURATOR ARCHAEOL, ALABAMA, 63-, RES. ASSOC. MED. CENTER, 57-, instr. anthrop. & lectr. archaeol, univ, 56-63. U.S.A, 43-46, Res, 46-, Maj. Fel. Anthrop. Soc; Soc. Archaeol; Asn. Mus. North American archaeology, especially prehistoric cultures of southeastern United States. Publ: Co-auth, Archaeological survey of Tennessee Valley; contrib, Archaeology of eastern United States. Address: P.O. Box 277, Moundville, Ala. 35474.

DE JONG, DR. GORDON FREDERICK, b. Berea, Ky, Aug. 6, 35; m. 61; c. 1. SOCIOLOGY, DEMOGRAPHY. B.A, Cent. Col.(Iowa), 57; M.A, Kentucky, 60, Ky. Res. Found. fel. & Ph.D.(sociol), 63; Chicago, 61. Instr. SOCIOL, Kentucky, 62-63; asst. prof, PA. STATE, 63-66, ASSOC. PROF, 66- Res. grants, 65- Consult, Metrop. Planning Cmn. & City Planning Firm, Lexington, Ky, 62-63. Sociol. Asn; Pop. Asn; Rural Sociol. Asn. The relationships between demography and sociology; population change and fertility decline in Appalachia; demographic balance in the Peruvian highlands; measurements of religious involvement. Publ: Appalachian fertility decline: a demographic and sociological analysis, Univ. Kentucky, 68; Religious fundamentalism, socio-economic status, and fertility attitudes in Appalachia, Demography, 65; co-auth, Religiosity in 5-D: an empirical analysis, Soc. Forces, 66. Address: Dept. of Sociology & Anthropology, Pennsylvania State University, University Park, Pa. 16802.

DEKMEJIAN, DR. RICHARD HRAIR, b. Aleppo, Syria, Aug. 3, 33; m. 54; c. 3. POLITICAL SCIENCE. B.A, Connecticut, 59; M.A, Boston, 60; cert. Near East. studies, Columbia, 64, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, STATE UNIV. N.Y. BINGHAMTON, 64- State Univ. N.Y. Faculty fels. & grants-in-aid, 66-68. U.S.A, 55-57. Polit. Sci. Asn; Mid. East. Inst; Mid. East Studies Asn. Cross-national studies of higher elites, especially elite circulation, recruitment and social backgrounds; application of mathematics to the study of politics; comparative politics in developing states, especially Middle East, Africa and South Asia. Publ: Changing patterns in Turkish foreign policy (1959-1967), Orbis, winter 67; The UAR National Assembly: a pioneering experiment, Mid. East Studies, 6/68; Soviet-Turkish relations and politics in the Armenian S.S.R, Soviet Studies, 4/68. Address: Dept. of Political Science, State University of New York at Binghamton, Binghamton, N.Y. 13901.

DEKOM, OTTO J(OSEPH), Statist, see 10th ed, Soc. & Behav. Vols.

DELAGARZA, DR. C(ESAR) (OCTAVIO), b. Nuevo Laredo, Mex, Nov. 6, 25; m. 49; c. 2. CLINICAL & INDUSTRIAL PSYCHOLOGY. Ph.D, Texas, 55. Asst. prof. psychol, Bradley, 53-56; personnel consult, Ernst & Ernst, 56-60; sr. regional assoc, Walter V. Clarke Assocs, Inc, 60-62; assoc. prof. psychol. & chmn. dept, Fairleigh Dickinson, 62-67; ASSOC. PROF. PSYCHOL. & DIR. PLACEMENT, DREW, 67- Psychol. Asn; Inter-Am. Soc. Psychol. Mental hygiene. Publ: Co-auth, Time and space orientation in schizophrenics, J. Abnorm. & Soc. Psychol; Effect of electroconvulsive shock on the anticipatory responses of the rat in a semi-linear maze, J. Gen. Psychol. Address: Dept. of Psychology, Drew University, Madison, N.J. 07940.

de LAGUNA, PROF. FREDERICA A(NNIS), b. Ann Arbor, Mich, Oct. 3, 06. ANTHROPOLOGY. A.B, Bryn Mawr Col, 27; Ph.D.(anthrop), Columbia, 33. Field dir. univ. mus, Pennsylvania, 31-35; assoc. soil conservationist, soil conserv. serv, U.S. Dept. Agr, 36; Nat. Res. Coun. fel, 36-37; lectr. ANTHROP, BRYN MAWR COL, 38-41, asst. prof, 41-42, 46-49, assoc. prof, 49-55, PROF. & CHMN. DEPT, 55- Rockefeller fel, 45-46; vis. lectr, Pennsylvania, 47-48; fel, Viking Fund, Inc, 49; vis. prof, California, 59; Soc. Sci. Res. Coun. faculty res. fel, 62-63. Asst, Danish Govt. archaeol. exped, W.Greenland, 29; leader, Univ. Pa. archaeol. exped, Alaska, 30-32; joint leader, Danish Nat. Mus. & Univ. Pa. ethnol. & archaeol. exped, Alaska, 33; leader, Univ. Pa. & Am. Philos. Soc. archaeol. surv, Yukon, 35; Bryn Mawr Col. & Mus. of North. Ariz. archaeol. exped, Ariz, 41; leader, ethnol. & archaeol. expeds, Alaska, 49-50, 52, 54, 58, 60- U.S.N.R, 42-45, Lt. Comdr. Fel. Anthrop. Asn.(pres, 66-67); Ethnol. Soc; Soc. Am. Archaeol. North American ethnology and archaeology; history of anthropology; cultural theory. Publ: Prehistory of northern North America as seen from the Yukon; Story of a Tlingit community; ed, Selected papers from the American Anthropologist, 1888-1920. Address: Dept. of Anthropology, Bryn Mawr College, Bryn Mawr, Pa. 19010.

DELAHANTY, PROF. MARY T, b. Bronx, N.Y, Jan. 18, 13. GOVERNMENT. Ph.B, Marygrove Col, 43; M.A, Columbia, 45; Ph.D.(polit. philos), Fordham, 49. From assoc. prof. to PROF. GOVT, Regis Col, 47-56; MARYMOUNT MANHATTAN COL, 56- Polit. Sci. Asn. Political philosophy. Address: Dept. of History, Marymount Manhattan College, 221 E. 71st St, New York, N.Y. 10021.

DELAKAS, PROF. DANIEL L(IUDVIKO), French & Italian Lang. & Lit, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

de LANNOY, DR. JEAN-LOUIS M, b. Brussels, Belgium, Nov. 26, 32; m. 59; c. 2. SOCIOLOGY. B.A, St. Louis Faculty, Brussels, 52; M.A, Louvain, 57 & 62; Madrid, 57-58; Vienna, 58-59. Researcher soc. sci, Center Soc. Res, Bogota, Colombia, 59-61; Center Res. Soc. Sci, Brussels, Belgium, 61-62; ASST. PROF. SOCIOL, BRITISH COLUMBIA, 66- Res. grants, Superior Coun. Sci. Res, Madrid, Spain, 57-58, Austrian Govt, 58-59 & Rockefeller Found, 62-65; lectr, Nat. Univ. Colombia, 60-61. Sociol. Asn; Law & Society Asn. History of social thought; sociology of knowledge, literature and the university; socio-political change in Latin America. Publ: Co-auth, Estructuras demograficas y sociales de Colombia, 61 & auth, Condiciones de vida en America Latina, 63, Feres, Friburg. Address: Dept. of Sociology, University of British Columbia, Vancouver 8, B.C, Can.

DELANO, PROF. CLARISSA, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 67.

DELANY, PROF. WILLIAM, b. San Francisco, Calif, Nov. 26, 23; div; c. 4. SOCIOLOGY. B.A, California, 48, M.A, 52; Ph.D.(sociol), Michigan, 57. From instr. to asst. prof. sociol, Kansas, 55-57; res. officer, pub. opinion & commun, U.S. Info. Agency, D.C, 57; asst. prof. sociol, Cornell, 57-64; assoc. prof, PITTSBURGH, 64-67, PROF. SOCIOL. & PUB. ADMIN, 67- U.S.A, 43-46. Sociol. Asn; Polit. Sci. Asn. Organization-environment relationships. Publ: Co-auth, Public administration and the public; auth, Bureaucratic and patrimonial administration, Admin. Sci. Quart, 3/63. Address: Dept. of Sociology, University of Pittsburgh, Pittsburgh, Pa. 15213.

DELAPLANE, DR. WALTER H(AROLD), b. Toledo, Ohio, Feb. 2, 07; m. 34; c. 2. ECONOMICS. A.B, Oberlin Col, 29, scholar. & A.M, 31; fel. & Ph.D. (econ), Duke, 34. Instr. econ, Duke, 34-40, asst. prof, 40-43, asst. to dean grad. sch, 37-43; economist & chief Iberian sect, blockade div, For. Econ. Admin, 43-45; vis. prof. econ, Paraguay, 45-46; prof. econ. & bus. admin. & head dept, St. Lawrence, 46-48; econ, Agr. & Mech. Col, Tex, 48-54, dean arts & sci, 53-58; col. arts & sci, Southern Methodist, 58-62; V.PRES. ACAD. AFFAIRS, ARIZONA, 62- Fel, Du Pont Symp, 50. Econ. Asn; Econ. Hist. Asn; Asn. Latin Am. Studies; Acad. Polit. & Soc. Sci. International economics; Latin American economy; money and banking. Publ: Co-auth, Six faces of Mexico, Univ. Arizona, 66; Some problems of economic development of Latin America, Tex. J.Sci; National economy in relation to the international economy, Investigación Economica. Address: University of Arizona, Tucson, Ariz. 85721.

de LAUBENFELS, DR. DAVID J(OHN), Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

DELBECQ, DR. ANDRE L, b. Toledo, Ohio, Sept. 20, 36; m. 59; c. 2. MANAGEMENT, ORGANIZATIONAL BEHAVIOR. B.B.A, Toledo, 58; M.B.A, Indiana, 61, Ford Found. fel. & D.B.A, 63. Asst. prof. orgn. behav, Toledo, 63-65, ASSOC. PROF, 65-67; MGT, GRAD SCH. BUS, WISCONSIN, 67- Ford Found fel, 65; work measurement fel, Southern Illinois, 65. Ford Found. consult, Nova High Sch, 64; consult, Toledo Off. Ed. Opportunity, 66-67. Acad. Mgt.(res. award, 63); Sociol. Asn. Decision-making groups; power and influence in bureaucracy; matrix management; small group theory. Publ: Co-auth, Selected readings in management, Irwin, 62; auth, Management of decision-making, Acad. Mgt. J, 12/67; co-auth, Hinderances to change in war on poverty, Sociol. & Soc. Sci, 1/68. Address: Graduate School of Business, University of Wisconsin, Madison, Wis. 53706.

de LEEUW, DR. FRANK, b. Amsterdam, Netherlands, Sept. 18, 30; nat; m. 52; c. 3. ECONOMICS. B.A, Harvard, 51, Littauer fel. & M.P.A, 53, Ph.D. (econ), 65. Asst. econ, Fed. Reserve Bank San Francisco, 53-56; ECONOMIST, FED. RESERVE BD, 56- Vis. prof, State Univ. N.Y. Buffalo, 67-68. Econ. Asn. Effects of monetary policy; short-term econometric models. Publ: Demand for capital goods by manufacturers, Econometrica; A model of financial behavior, In: Brookings quarterly econometric model of the United States, Rand McNally, 65. Address: 3175 Porter St. N.W, Washington, D.C. 20008.

DE LEO, ALFRED V, Econ, see 10th ed, Soc. & Behav. Vols.

DE LESPINASSE, DR. PAUL F, b. Ontario, Ore, Oct. 4, 39; m. 67. POLITICAL SCIENCE. B.A, Willamette, 61; hon. Woodrow Wilson fel, Nat. Defense Ed. Act fel. & M.A, Hopkins, 63, Ph.D.(polit. sci), 66. Instr. POLIT. SCI, ADRIAN COL, 64-66, ASST. PROF, 66- Polit. Sci. Asn. Systematic conceptualization; comparative government; monarchial institution in constitutional democracy; relationship between lying and politics. Address: Apt. 103-W, 770 Lakeshire Trail, Adrian, Mich. 49221.

de LISSOVOY, DR. VLADIMIR, b. Poltava, Russia, Aug. 24, 18; nat; m. 41; c. 3. SOCIAL PSYCHOLOGY. B.A. & B.Ed, Colorado, 47, M.A, 48; Grant Found. fel, Cornell, 52-53, Danforth Found. fel, 58-59, Ph.D.(child develop, family rel), 59. Instr. soc. sci, Colorado, 48-49; asst. prof, State Univ. N.Y. Col. Oswego, 49-54, from assoc. prof. to prof, Oneonta, 55-60; ASSOC. PROF. CHILD DEVELOP, COL. HUMAN DEVELOP, PA. STATE, 60- Consult, Catskill Area, N.Y, 59-60. U.S.A, 41-45, Capt. AAAS; Sociol. Asn; Psychol. Asn; Soc. Res. Child Develop; Soc. Sci. Study Relig; Asn. Marriage Counsr. Personality development in early childhood; cognitive development; cross cultural and cross class child rearing practices; early childhood education; high school marriages. Publ: Head banging in early childhood, Child Develop, 3/62; High school marriages in Pennsylvania, J. Marriage & Family, 5/65. Address: College of Human Development, Pennsylvania State University, University Park, Pa. 16802.

DELIT, DR. MAURICE, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

DELLA-PIANA, PROF. GABRIEL M, b. Boston, Mass, Apr. 4, 26; m. 47; c. 5. EDUCATIONAL PSYCHOLOGY. A.B, Brigham Young, 50; M.S, Illinois, 53, Ph.D.(ed. psychol), 56. Instr, Brigham Young, 49-50; instr. & res. asst. ed. psychol, Illinois, 51-55; dir. curriculum & guid. & part-time teacher, Dist. Number 11, Highwood, Ill, 55-58; PROF. ED. PSYCHOL. & DIR. BUR. ED. RES, UTAH, 58- Mem. summer faculty, Illinois, 64, California, Los Angeles, 65 & Harvard, 66. Dir. proj, Univ. Res. Cmt; proj. dir, U.S. Off. Ed, 61, 65, 66 & 67-69; dir. affective behav. proj, Rocky Mt. Ed. Lab, 66-67. U.S.M.C.R, 43-45. Ed. Res. Asn; Psychol. Asn; Nat. Ed. Asn. Programmed instruction; reading diagnosis and prescription; school learning. Publ: Searching orientation and concept learning, J. Ed. Psychol, 48: 245-253, co-auth, Are normative oral reading error profiles necessary?, In: Improvement of reading through classroom practice, Int. Reading Asn, 64; auth, Sequence characteristics of text materials and transfer of learning. I Experiments on discovery learning & II Appendices: tasks and tests, Bur. Ed. Res, U.S. Off. Ed, 12/65. Address: Dept. of Educational Psychology, University of Utah, Salt Lake City, Utah 84112.

DELLIN, PROF. L(UBOMIR) A(TANASOV) D(ELINESHEV), b. Sofia, Bulgaria, May 1, 20; nat; m. 52; c. 1. ECONOMICS. L.L.B, Sofia, 42; L.L.M, Vienna, 45; J.D, Genoa, 46; M.A, N.Y. Univ, 55. Res. assoc, Mid-European Studies Center, N.Y, 52-55, res. supvr, 55-57; lectr, Columbia, 57; asst. prof. econ, VERMONT, 57-61, assoc. prof, 61-67, PROF. ECON. & POLIT. SCI, 67- Fulbright scholar, Munich, 67-68. Consult, subcmt. impact of imports & exports Am. employ, U.S. House Reps, 61. Econ. Asn; Asn. Adv. Slavic Studies; Polit. Sci. Asn. Economics and politics of the Soviet Union and Eastern Europe. Publ: Bulgaria; Science education in the U.S.S.R, In: Challenge of science education; Agriculture and the peasant, In: Eastern Europe in the sixties, Prager, 63. Address: Dept. of Economics & Political Science, University of Vermont, Burlington, Vt. 05401.

DELLIS, DR. NICHOLAS P(ETER), b. New York, N.Y, Oct. 3, 24; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.A, City Col. New York, 47, M.S, 53; Ph.D, N.Y. Univ, 55; cert. psychoanal, William Alanson White Inst, 66. Intern clin. psychol, Meadowbrook Hosp, East Meadow, N.Y, 54-55; dir. psychol. servs, Southeast La. Hosp, Mandeville, 55-58, chief psychologist, 58-60; CONSULT. CLIN. PSYCHOLOGIST, 60- Lectr, sch. med, La. State, 56-57, univ, 58-59; Adelphi Col, 60- Vis. scientist, Charity Hosp, New Orleans, La, 56-57. Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. Psychol. Asn; Acad. Psychother. Psychotherapy; psychoanalysis; projective testing; personality theory; comparative psychotherapy; group dynamics; therapeutic community. Publ: Co-ed, Training of psychotherapists & Psychotherapy with schizophrenics; co-auth, Exploratory investigation into the levels hypothesis. Address: 198 Shepherd Lane, Roslyn Heights, N.Y. 11577.

DeLOACH, PROF. DANIEL BARTON, b. Heber Springs, Ark, Sept. 14, 04; m. 26. ECONOMICS. B.S, Ore. State Col, 27; M.A, California, 32; Ph.D. (econ), 35; Litt.D, Newcastle, 64. Instr. bus. admin, Ore. Col. Ed, 28-31; asst. prof, Ore. State Col, 35-38, assoc. prof, 38-39, agr. econ, 39-42, prof, 42; consult, Off. Price Admin, 42-45; bur. agr. econ, U.S. Dept. Agr, 48-49, assoc. head div. mkt. & transportation res, 49-53, chief orgn. & costs br, agr. mkt. serv, U.S. Dept. Agr, 53-58; PROF. AGR. ECON, CALIFORNIA, DAVIS, 58- Fulbright lectr, King's Col, Durham, 62-63; Rockefeller Found. res. grant, 66-67. Consult, Agr. Inst, Ireland, 67. Res. group mem, Nat. Asn. Food Chains, 64-66. Agr. Econ. Asn. Marketing of farm products; dairy products; fruits and vegetables. Publ: Trade in fresh and frozen fishery products; Adapting marketing organization to changing requirements; Changes in food retailing. Address: 513 E. 12th St, Davis, Calif. 95616.

DeLONG, PROF. ARTHUR RICHARD, b. Menasha, Wis, June 21, 19; m. 46; c. 2. PSYCHOLOGY. B.Sc, Ohio State, 41, M.A, 46; Ph.D, Michigan, 49. Teacher, pub. schs, Ohio, 41-45; instr, Ohio State, 45-46; spec. instr, Wayne State, 46-48; head psychol. dept, N.Cent. Col.(Ill), 48-51; asst. prof. child develop. & coordinator child develop. lab, Mich. State, 51-56; assoc. prof. human develop. & ed. res, Delaware, 56-65; PROF. PSYCHOL. & CHMN. DEPT, GRAND VALLEY STATE COL, 65- Consult, Greenfield Village Schs, 52-54; State Civil Serv. Cmn, Ill, 52-54; child develop. clubs, Mich. State, 55-56. AAAS; Psychol Asn; Soc. Res. Child Develop; Asn. Res. Growth Relationships (exec. secy, 57-59, ed, jour, 58-). Longitudinal analyses of individuals growths and the relationships among them. Publ: Toward improved accuracy in test interpretation, Merrill-Palmer Quart; A review of longitudinal studies of intellectual & academic growth, Asn. Res. Growth Relationships J, 11/63. Address: Dept. of Psychology, Grand Valley State College, Allendale, Mich. 49401.

DE LONG, DR. DARRELL, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

De LONG, DEAN EARL H(OWARD), b. Kirkland, Ill, Mar. 9, 09; m. 46; c. 4. POLITICAL SCIENCE. B.S, Northwestern, 29, M.A, 30, Ph.D.(polit. sci), 33. From instr. to assoc. prof. polit. sci, Northwestern, 33-41; supv. liaison officer, U.S. Civil Serv. Cmn, 41-43; div. chief admin. mgt, Vet. Admin, 45-48; mgt. analyst, Off. Secy. Defense, 48-50; staff exec, U.S. Cent. Intel. Agency, 50-59; TECH. DIR, SPEC. OPERS. RES. OFF, AMERICAN UNIV, 59-, DEAN SCH. GOVT. & PUB. ADMIN, 63- U.S.M.C, 43-45, 2nd Lt. Polit. Sci. Asn; Soc. Pub. Admin. United States national security; public administration. Address: 1602 N. Greenbrier St, Arlington, Va. 22205.

De LONG, PROF. GEORGE C(ASS), Geog, see 10th ed, Soc. & Behav. Vols, deceased.

DeLORA, PROF. JACK R(OBERT), b. Grand Rapids, Mich, Dec. 4, 23; m. 45; c. 1. SOCIOLOGY. B.S, Bowling Green State, 47; M.A, Western Reserve, 48; Ph.D, Mich. State, 59. Instr. SOCIOL, Bowling Green State, 48; Mich. State, 52-55; asst. prof, SAN DIEGO STATE COL, 55-66, PROF, 66-, CHMN. DEPT, 64- Col. Placement Coun. res. grant, 63-64; U.S. Pub. Health Serv. res. grant, 65-67. Consult, Muskegan Community Chest, 47; YWCA, Calif, 56. U.S.M.C, 43-46, 50-52, Res, 61- Sociol. Asn. Sociology of retail business: urban sociology; social work. Publ: Readings in social science, Mich. State Col, 55; Structures and orientations of retail business: a typological analysis; co-auth, Status images: their nature and relation to selection of college majors and occupations, J. Col. Placement, 11/64. Address: 4902 Elsa Rd, San Diego, Calif. 92120.

de LORGE, DR. JOHN OLDHAM, b. Jacksonville, Fla, Dec. 14, 35; m. 60; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Jacksonville, 60; M.A, Hollins Col, 62; Ph.D.(conditioned reinforcement), North Carolina, Chapel Hill, 64. Child care worker, Duval County Children's Shelter, Fla, 60; asst. exp. psychol, Hollins Col, 60-61; psychol, North Carolina, Chapel Hill, 61-63, res. assoc. operant psychol, 63-64, instr. psychol, 64-65; res. psychologist, Evansville State Hosp, Ind, 65-66; ASST. PROF. PSYCHOL, SOUTH ALABAMA, 66- Psychol. trainee, Vet. Admin. Hosp, Durham, N.C, summer, 62; Nat. Inst. Ment. Health res. grant, 66-67. U.S.A, 53-56. AAAS; Psychol. Asn; Animal Behav. Soc. Exploratory behavior in rats; operant behavior in pre-school children and in pigeons; analysis of conditioned reinforcement through the use of brief stimulus presentations on operant schedules of reinforcement. Publ: Co-auth, Effects of food deprivation on exploratory behavior in a novel situation, Psychol. Reports, 61; auth, Fixed interval behavior maintained by conditioned reinforcement, J. Exp. Anal. Behav, 5/67; co-auth, Observing behavior in the squirrel monkey in a situation analogous to human monitoring, Perceptual & Motor Skills, 25: 745-767. Address: Dept. of Psychology, University of South Alabama, Mobile, Ala. 36608.

DELP, PROF. HAROLD A(RTHUR), b. Lansing, Mich, Aug. 17, 12; m. 33; c. 2. PSYCHOLOGY. B.S, Florida, 33, M.S, 34; Ph.D.(ed. psychol), Nebraska, 48. Instr, pub. schs, Fla, 34-37, supt, 37-40; instr. ed. psychol. & clinician, Nebraska, 46-48; ed. dir, Nebr. State Reformatory Men, 47; asst. prof. ed. psychol. & dir. psycho-ed. clin, Minnesota, 48-51; coordinator ed. activities, Vineland Training Sch, 51-56, clin. serv, 56-59; dir. div. spec. ed, Nat. Col. Ed, 60-64; PROF. ED. PSYCHOL. & DIR. SPEC. ED, TEMPLE, 64-, acting chmn. dept. ed. psychol, 67-68. Lectr, State Dept. Health, Minn, 49-51; instr, Newark State Col, 52-54; vis. prof, Coppin State Col, 66- Exec. dir, Little City, Ill, 59-61. Consult, East. State Sch. & Hosp, Pa, 64-66; Woods Schs, 64- Mem, Coun. Except. Children. U.S.A, 40-46, Lt. Col. AAAS; Psychol. Asn; Asn. Ment. Deficiency; Nat. Coun. Measurement in Ed. Education; clinics for children; psychology and education of mentally retarded; clinical diagnosis of psychological and educational problems. Publ: Delp IQ computer. Address: College of Education, Temple University, Philadelphia, Pa. 19122.

DELUHERY, PROF. JOSEPH C, b. Buffalo, N.Y, Nov. 24, 02. PSYCHOLOGY. B.S, Buffalo, 36, M.Ed, 45; Ph.D, Ottawa (Can), 47. Pub. rels. dir, Buffalo Baseball Club, 40-49; PROF. ED, MT. ST. JOSEPH'S TEACHERS COL, 47- Instr, Buffalo, 46; exec. dir, Buffalo Youth Bd, 55-56; consult. & writer, Grolier Soc, Inc, 56; asst. prin, McKinly Voc. High Sch, 56. U.S.A, 20-32, Lt. Psychol. Asn; Personnel & Guid. Asn; Can. Psychol. Asn. Guidance work in Catholic education; youth, vocational and educational guidance work. Publ: How to choose your vocation; High school coming up; How to form a boys and girls club. Address: 243 Laird Ave, Buffalo, N.Y. 14207.

DEL VECCHIO, PROF. ANTHONY JAMES, b. Kokomo, Ind, Nov. 27, 21; m. 50; c. 7. COUNSELING, CLINICAL PSYCHOLOGY. B.S, U.S. Naval Acad, 45; M.A, Loyola (Ill), 52, Ph.D.(psychol), 57. Lectr. psychol, Loyola (Ill), 54-57; asst. prof, De Paul, 57-64; ASSOC. PROF. PSYCHOL. & DIR. FAMILY RES. INST, COL. ST. THOMAS, 64- Counseling psychologist, Loyola Acad, 54-57. Consult, Ill. Youth Cmn, 61. U.S.N, 42-47, 52-54, Lt. Psychol. Asn. Parental counseling related to academic achievement of children. Address: Dept. of Psychology, College of St. Thomas, St. Paul, Minn. 55101.

DELWART, LOUIS O, b. Tournay, Belgium, Sept. 14, 24; nat; m. 56; c. 3. ECONOMICS. B.S, Sch. For. Serv, Belgium, 45; Columbia, 51-52; M.A, Georgetown, 52. Economist, Int. Monetary Fund, 47-56; sr. economist, Klein & Saks, Inc, 56-58; dir. res, inter-Am. res. cmt, Nat. Planning Asn, 58-61; chief planning & prog, ORGN. AM. STATES, 61-63, ALTERNATE REP. IN EUROPE, 63- Consult, library prog, U.S. Info. Agency, 60-62. Econ. Asn. Economics of development; short and long range planning and programming; regional economics. Publ: Future of Latin American exports to the United States: 1965 and 1970; co-auth, Regional account projections in the context of national projections; auth, European experience with income and price policies: possible implications for Latin America, Orgn. Am. States, 5/67. Address: 8 Chemin des Vidollets, Vernier, Geneva, Switz.

DELZELL, PROF. CHARLES F(LOYD), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DELZOPPO, DR. CLAUDE F(RANCIS), b. Hibbing, Minn, July 24, 26; m. 50; c. 3. SOCIOLOGY. B.S. & M.S, St. Cloud State Col, 54; Ph.D.(sociol), Iowa, 65. Instr, pub. sch, Minn, 54-57; SOCIOL, ST. CLOUD STATE COL, 57-63, asst. prof, 65-67, ASSOC. PROF, 67- U.S.A, 44-46, 50-52, 1st Lt. Sociol. Asn; Pop. Asn. Population, expecially fertility and migration; social psychology. Address: 620 Fourth Ave. N.E, St. Cloud, Minn. 56301.

DeMARCHE, DR. DAVID F, b. Molina, Austria, Oct. 15, 10; nat; m. 31; c. 2. SOCIOLOGY. B.S, Pittsburgh, 34, M.L, 37; Ph.D, Southern California, 46. Prof. group work & community orgn. & dir. soc. serv. dept, Springfield Col, 46-52; dir. prog. adv. cmt, Nat. United Serv. Orgn, Study, 52-53, nat. dir. res. & community orgn, United Serv. Orgn, 53-57; assoc. dir. community resources for ment. health, Joint Cmn. Ment. Illness & Health, 57-59; dir. soc. planning, United Community Fund San Francisco, 59-66; assoc. exec. dir, Bay Area Soc. Planning Coun, 66-67; EXEC. DIR, SERV. PROG. OLDER SAN FRANCISCANS, 67- Lectr, sch. soc. welfare, California, 61-62. Consult, Community Res. Assocs, N.Y, 46-; Mil. Govt. Germany, 48; North. Calif. Presby. Homes, Inc, 66-67. Fel. Sociol. Asn; Asn. Soc. Workers. Community health and welfare resources, organization process and development. Publ: Community organization and agency responsibility; Community resources for mental health; Report of survey, land and Kreis youth committees. Address: 4000 Paradise Dr, Tiburon, Calif. 94920.

DeMARCO, DR. JOHN F(RANCIS), b. Jersey City, N.J, Oct. 25, 24; m. 54; c. 2. PSYCHOLOGY. Ph.D.(psychol), Vienna, 55. Psychologist child guid, Beratungsstelle Fur Mittleschuler, Vienna, 54-56; indust, U.S. Govt, Wash.

D.C, 56-58; U.S. Army, Japan, 58-61, SR. PSYCHOLOGIST PERSONNEL, Wash, D.C, 62-67; PSYCHOL. ASSESSMENT ASSOCS, 67- Psychologist, Geschafts Beratungsstelle, Vienna, 55-56. U.S.A, 42-45, 48-52, T/Sgt. Psychol. Asn; Soc. Photog. Sci. & Eng. Assessment and evaluation of professional personnel outside the United States. Address: 4725 Linnean Ave. N.W, Washington, D.C. 20008.

DEMAREE, DR. ROBERT G(LENN), b. Rockford, Ill, Sept. 20, 20; m. 48; c. 3. PSYCHOLOGY. B.S, Illinois, 41, M.A, 48, fel. & Ph.D.(psychol), 50. Asst. prof. psychol, Tulane, 50-51; Illinois, 51-53; chief electronics maintenance br, maintenance lab, personnel & training res. center, Lowry Air Force Base, Colo, 53-55, dep. tech. dir, 55-56, chief performance br, 56-57; vis. sr. res. scientist, U.S. Army Defense Human Res. Unit, Ft. Bliss, Tex, 57-58; dir. crew factors dept, Martin Space Flight Div, Md, 58-59, chief human factors group, dyna-soar proj, 59-60; staff scientist, psychol. res. assocs, Matrix Corp, Va, 60-61; assoc. prof. psychol. & dir. off. instr. res, Illinois, Urbana, 61-63; prog. dir. psychol, Life Sci, Inc, Tex, 63-66; ASSOC. PROF. PSYCHOL. & RES. SCIENTIST, INST. BEHAV. RES, TEXAS CHRISTIAN, 66- With Bell Aircraft Corp, N.Y, 58-60. U.S.A, 41-46, Res, 46-, Lt. Col. Psychol. Asn; Statist. Asn. Man-machine systems design; human engineering; job analysis; training methods, aids and devices; proficiency measurement; job performance criteria; statistical methodology. Address: Institute of Behavioral Research, Texas Christian University, Ft. Worth, Tex. 76129.

de MARQUETTE, DR. PHYLLIS ELIZABETH DELF SWANN, b. Calumet, Mich, Sept. 14, 02; m. 46. PSYCHOLOGY, SPEECH PATHOLOGY. A.B, Michigan, 24, M.A, 27, Ph.D.(psychol), 32; London, 34; Vienna, 35. Teacher, high schs, Mich. & Ore, 24-26; assoc. prof. psychol, Cleveland Col, 29-30; asst. prof. corrective speech & psychol, Mt. Holyoke Col, 32-34; spec. supvr. res, State Bd. Ed, Calif, 42-44, radio ed. consult, 45; SPEECH & READING SPECIALIST, GROSSE ILE PUB. SCHS, 56- Mem. psychol. bd, Cleveland Pub. Schs, 29-30; Detroit Hearing Center. Speech & Hearing Asn; N.Y. Acad. Sci; fel. Int. Coun. Psychol. Common denominator of psychological and physiological aspects of defective speech and inability to read; influence of hearing on ability to speak and learn sounds; inheritance factors in spasmophemia. Address: Box 56, Grosse Ile, Mich. 48138.

DEMBER, PROF. WILLIAM N(ORTON), b. Waterbury, Conn, Aug. 8, 28; m. 59; c. 3. PSYCHOLOGY. A.B, Yale, 50; M.A, Michigan, 51, Ph.D, 55. Instr. PSYCHOL, Michigan, 54-56; asst. prof, Yale, 56-59; CINCINNATI, 59-65, PROF, 65- AAAS; Psychol. Asn. Visual detection and recognition; perception; alternation and exploratory behavior; motivation theory and measurement; scaling theory. Publ: Psychology of perception, Holt, 60; Visual perception: the nineteenth century, Wiley, 64; The new look in motivation, Am. Sceintist, winter 65. Address: 8378 Mockingbird Lane, Cincinnati, Ohio 45231.

DEMBITZ, LEWIS N, b. Washington, D.C, Sept. 1, 10; m. 37, 56; c. 4. ECONOMICS. A.B, George Washington, 30; M.B.A, Harvard, 32. Economist, Fed. Reserve Syst, 34-43, 45-50, asst. dir, div. int. finance, 50-56, assoc. adv, div. res. & statist, 56-65; SR. ASSOC, ROBERT R. NATHAN ASSOCS, INC, 66- Sr. intel. analyst, Bd. Econ. Warfare, London, 43-45. Consult, Rand Corp, 49-53; prin. adv, German debts, U.S. Dept. State, London, 50-51; adv, U.S. Agency Int. Develop, Rio de Janeiro, 63. Econ. Asn; Statist. Asn; Finance Asn. Money and banking; security markets; international finance. Address: 3414 Garfield St, N.W, Washington, D.C. 20007.

DEMBO, PROF. TAMARA, b. Baku, Russia, May 28, 02; nat. PSYCHOLOGY. Ph.D, Berlin, 30. Asst. psychol, Groningen, Netherlands, 29-30; res. assoc, Smith Col, 30-32; Worcester State Hosp, Mass, 32-34; gen. ed. bd. res. fel, Cornell, 34-35; Iowa, 35-36, res. assoc, 36-43; asst. prof, Mt. Holyoke Col, 43-45; acting assoc. prof. psychol. & dir. res. proj, Stanford, 45-48; assoc. prof, div. grad. students, New Sch. Soc. Res, 48-50; U.S. Pub. Health spec. fel. soc. rels, Harvard, 50-52; assoc. prof. PSYCHOL, CLARK, 53-62, PROF, 62- Consult. Psychol. Training Control Unit, Vet. Admin. Fel. Psychol. Asn. Psychology of emotions; level of aspiration; frustration and aggression; social emotional relationships; value problems; institutional problems of mental patients; rehabilitation psychology. Publ: Der aerger als dynamisches problem, Psychol. Forschung, 31; co-auth, Adjustment to misfortune: a problem of social-psychological rehabilitation, In: Artificial limbs, 56; auth, Theoretical and experimental inquiry into concrete values and value systems, In: Perspectives in psychological theory, Int. Univs, 60. Address: Dept. of Psychology, Clark University, Worcester, Mass. 01610.

de MENIL, DR. GEORGE, b. Clairac, France, Dec. 4, 40; U.S. citizen. ECONOMICS. B.A, Harvard, 63; Ph.D.(econ), Mass. Inst. Tech, 68. INSTR. ECON, BOSTON COL, 67- Econ. Asn. Labor economics; quantitative macroeconomics; econometrics. Publ: Co-auth, Chanzeaux, a village in Anjou, Harvard, 66. Address: 221 Mt. Auburn St, Cambridge, Mass. 02138.

DEMENTIS, DR. GILBERT, b. Chicago, Ill. Mar. 12, 26; m. 53; c. 2. ECONOMICS. B.S, Purdue, 49; M.A, Chicago, 53, Ph.D.(econ), 60. Instr. eng, Purdue, 48-49; res. assoc. econ. ed, indust. rel. center, Chicago, 52-53; res. engr. metall, Inland Steel Co, Ind, 55-59, sr. mkt. analyst commercial res. dept, Ill, 59-61; dir. sales res, CONSUMER PRODS. DIV, KIMBERLY-CLARK CORP, 61-62, mgr. mgt. res, 62-63, group prod. mgr. feminine hyg. prod, 63-65, DIR. MKT. RES, 65- U.S.A, 44-46. Econ. Asn; Statist. Asn; Asn. Bus. Econ. Engineering; marketing; profit maximization principles of economics as applied to actions of firms under conditions of uncertainty. Address: 527 E. Wisconsin Ave, Neenah, Wis. 54959.

DEMENY, DR. PAUL G(EORGE), b. Nyiregyhaza, Hungary, Dec. 24, 32. ECONOMICS, DEMOGRAPHY. B.A, Budapest, 55; Ph.D, Princeton, 61. Res. assoc. demog, off. pop. res. & asst. prof. ECON, Princeton, 61-66; ASSOC. PROF, MICHIGAN, 66- Econ. Asn; Pop. Asn. Am; Asn. Adv. Slavic Studies; Royal Econ. Soc; French Soc. Hist. Demog; Int. Union Sci. Study Pop. Economic aspects of population growth, demographic estimating techniques; historical demography. Publ: Co-auth, Regional model life tables and stable populations, 66 & The demography of tropical Africa, 68, Princeton; Methods of estimating basic demographic measures from incomplete data, UN, 67. Address: Dept. of Economics, University of Michigan, Ann Arbor, Mich. 48104.

DEMERATH, PROF. NICHOLAS J(AY), b. Kewanee, Ill, Nov. 15, 13; m. 35; c. 3. SOCIOLOGY. A.B, DePauw, 34; A.M, Harvard, 48, fel, 38-40, Ph.D, 42. Asst. prof. sociol, Tulane, 40-42; soc. sci. analyst, div. prog. surys, U.S. Dept. Agr, 42-43; housing economist & chief planning & rev. sect, Nat. Housing Agency, Wash, D.C, 43-45; adv. to President, P.I, 45-46; res. prof, inst. res. soc. sci, North Carolina, 46-56; PROF. SOCIOL, WASHINGTON (ST. LOUIS), 56-, chmn. dept. sociol. & anthrop, 56-59, dir. soc. sci. inst, 56-62. Vis. prof, Birmingham, Eng, 48; Ford Found vis. prof, Indiana, 61. Consult, State Planning Bd, N.C, 46; Ford Found. World Health Orgn; Fed. Aviation Agency; U.S. Treas. Dept; expert consult, U.S. Air Force, 50-51; dir. Planning Proj. Human Develop, St. Louis, 61-63; gen. mgr, St. Louis Human Develop. Corp, 64; consult, President's Cmt. Youth Crime & Juvenile Delinquency, 64; Minstry Health & Family Planning, Govt. India & proj. specialist, Ford Found, India, 65-66. Mem. bd. dirs, Mark Twain State Bank, Bridgeton, Mo, 64- U.S.N.R, 44-46, Lt.(jg). Sociol. Asn; Soc. Appl. Anthrop. (v.pres, 55, pres, 56). Administrative organization; social psychology; sociological theory. Publ: Gateways for youth: a proposal and plan for the St. Louis Human Development Corporation, St. Louis Human Develop. Corp, 64; Power, presidents and professors, Basic Books, 67; Organizational behavior and group productivity. Address: Social Science Institute, Washington University, St. Louis, Mo. 63130.

DEMERATH, DR. NICHOLAS JAY, III, b. Boston, Mass, Nov. 10, 36; m. 60; c. 3. SOCIOLOGY. A.B, Harvard, 58; M.A, California, Berkeley, 62, Ph.D. (sociol), 64. Instr. SOCIOL, WISCONSIN, 62-63, asst. prof, 63-66, ASSOC. PROF, 66- Res. grants, Nat. Inst. Ment. Health, New World Found. & Danforth Found, 62- Mem. nat. faculty adv. cmn, South. Christian Leadership Conf, 65-66; nat. bd. adv. ed, Trans-action, 66- Book rev. ed, Am. Sociol. Rev, 65-68. Sociol. Asn. Problematics of organizational involvements and normative commitments, especially among religious adherents, the irreligious, students generally and student activists. Publ: Social class in American protestantism, Rand McNally, 65; co-auth, System, change and conflict, Macmillan, 67; Religion in social context, Random, 68. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

DeMICHELE, DR. JOHN HENRY, b. Chicago, Ill, Mar. 14, 26. INDUSTRIAL RELATIONS. B.S, Illinois, 48, M.A, 51; Ph.D.(human rels. ed), N.Y. Univ, 66. Asst. Illinois, 52-53; asst. personnel mgr. & voc. counsr, Fedn. of Handicapped, N.Y, 53-55; indust. consult, 55-61; consult, Ernst & Ernst, 61-64; sr. consult, Howard & Assocs, Ill, 64-66; dir. mgt. develop, Int. Paper Co, New York, 66-67; ASSOC. PROF. MGT. & DIR. MGT. DEVELOP. CENTER, HOUSTON, 67- Mem. Nat. Indust. Conf. Bd, 66. N.Y. Univ. Founders Day award, 66. U.S.A, 44-45. Psychol. Asn; Mgt. Asn. Design and administer executive development programs; organizational behavior; industrial organization planning; executive search and appraisal. Publ: Interpretation of anxiety by various psychotherapeutic schools, J. Consult. Psychol. Address: 13406 Myrtlea Lane, Houston, Tex. 77024.

DEMING, DR. FREDERICK L(EWIS), b. Des Moines, Iowa, Sept. 12, 12; m. 35; c. 2. ECONOMICS. A.B, Washington (St. Louis), 34, A.M, 35, Ph.D, 41. With Jas. B. Hill Ins. Agency, 36-41; Fed. Reserve Bank St. Louis, 41-48, asst. v.pres, 48-51, v.pres, 51-53, first v.pres, 53-57; pres, Fed. Reserve Bank Minneapolis, 57-64; UNDER SECY. TREAS. MONETARY AFFAIRS, U.S. TREAS. DEPT, 65- Chief, banking adv. mission, Honduras, 56. Consult, Govt. Repub. China, Taiwan, 60. Econ. Asn. Central banking; government and international finance; fiscal policy. Address: 2601 Woodley Place N.W, Washington, D.C. 20008.

DEMING, G(EORGE) H(ARVEY), b. Lancaster, N.H, Dec. 23, 14; m. 44; c. 2. GOVERNMENT, PUBLIC ADMINISTRATION. A.B, Middlebury Col, 36; A.M, North Carolina, 48. Asst. prof. govt. & exec. secy. bur. govt. res, New Hampshire, 48-53; dir. tech. assistance, Am. Munic. Asn, D.C, 53-54; sr. staff mem, coun. econ. adv, Exec. Off. President & staff asst. to presidential asst. for pub. works planning, 54-57; dir, Conf. Metrop. Area Probs, 57-62; dir. local govt. studies center, grad. sch. pub. affairs, State Univ. N.Y, 62-65; consult. munic. personnel costs, Temporary Cmn. City Finances, New York, 65-66; personnel admin, Matteson Assocs, Vt, 66; SPEC. ASST. TO SURGEON GEN, DEPT. HEALTH, ED. & WELFARE, WASH, D.C, 67- Prof. lectr, American Univ, 55; guest lectr, Salzburg Seminar Am. Studies, Austria, 64. Consult, Am. Munic Asn, 57-; Adv. Cmn. Intergovt. Rels, 60-67. Dir, metrop. areas prog, Inst. Pub. Admin, 59-62; mem, Surgeon Gen. Adv. Cmt. Urban Health Affairs, 62-65. Freedoms Found. award, 51. U.S.A, 41-46, Res, 46-, Lt. Col. Polit. Sci. Asn; Soc. Pub. Admin; Int. City Mgr. Asn. Metropolitan area organization; intergovernmental relations; state and local government; public finance. Publ: The use of technical assistance in North Carolina government; ed, Metropolitan area problems: news and digest; auth, Professional training for solid wastes management (public cleansing) in Great Britain and other European countries, Pub. Health Serv. Monogr, 64. Address: 5805 Aberdeen Rd, Bethesda, Md. 20034.

DEMING, DR. W(ILLIAM) EDWARDS, Math. Statist, see 11th ed, Phys. & Biol. Vols.

DEMKO, DR. GEORGE JOSEPH, b. Catasauqua, Pa, Apr. 10, 33; m. 59; c. 1. GEOGRAPHY. B.S, West Chester State Col, 58; M.S, Southern Illinois, 59; inter-univ. cmn. travel grant, Moscow State, 62-63; Ph.D.(geog), Pa. State, 64. Instr. GEOG, Pa. State, 60-61; asst. prof, Indiana, 64-65; OHIO STATE, 65-67, ASSOC. PROF, 67- Nat. Sci. Found. res. grant, 66-68. U.S.M.C, 51-54, Sgt. Asn. Am. Geog; Pop. Asn; Asn. Adv. Slavic Studies. Population and economic problems of Russia. Publ: Co-auth, Europe and the Soviet Union, McGraw, 66; auth, Trends in Soviet geography, Survey, 65; co-auth, Peasant discontent in the Russian revolution of 1905, E. Lakes Geogr, 67. Address: Dept. of Geography, Ohio State University, Columbus, Ohio 43210.

DEMMING, DR. JOHN A(LBERT), b. Canton, Ohio, Sept. 28, 21; m. 42; c. 2. PSYCHOLOGY. B.S, Kent State, 48, M.A, 49; fel, Ohio State, 53-54, Ph.D, 56. Psychologist, State Dept. Ment. Hyg, Ohio, 49-52; asst. psychol, Ohio State, 55-56; asst. prof, Fla. State, 56-58; dir. guid. & testing, PALM

BEACH COUNTY SCHS, 59-65, DIR. PUPIL PERSONNEL CLIN. SERV, 65- Summer lectr, Muskingum Col, 56; fel, grad. sch. ed, Harvard, 63. U.S.C.G, 42-45. AAAS; Psychol. Asn; Personnel & Guid. Asn. Human learning; changes in mental abilities with age; effects of mobility on social adjustment. Publ: Test indigenous to the adult and older years, Aging & Retirement; Pupil mobility and adjustment, Fla. J. Ed. & Res; contrib, Readings in guidance, McKay, 63. Address: Box 2469, West Palm Beach, Fla. 33401.

DEMOND, HELEN F(AIRCHILD), b. Springfield, Mass, Mar. 7, 04. ECONOMICS, STATISTICS. A.B, Mt. Holyoke Col, 25, A.M, 27. Instr. econ, Mt. Holyoke Col, 27-29; statistician, Cmt. Grading Nursing Schs, 29-31; ECONOMIST & STATISTICIAN, U.S. GOVT, 31-, CONSULT, TREAS. DEPT, 62-, statistician & chief, income, finance & wealth br, Internal Revenue Serv, 57-62. Econ. Asn; Statist. Asn. Central government finance; statistical methods; international finance. Publ: Tax returns as a source of benchmark statistics. Address: 1238 29th St, N.W, Washington, D.C. 20007.

DEMONE, DR. HAROLD W(ELLINGTON), JR, b. Arlington, Mass, July 23, 24; m. 49; c. 1. SOCIOLOGY. A.B, Tufts, 48, Grant Found. fel. & A.M, 49; Boston, 50-54; univ. fels, Brandeis, 61-62 & 66, Ph.D.(soc. welfare), 66. From instr. to asst. prof. sociol, Tufts, 49-54; exec. dir. div. alcoholism, State Dept. Pub. Health, N.H, 54-56, asst. to cmnr. pub. health, 59-60; cmnr. alcoholism, State of Mass, 56-59; exec. dir, Med. Found. Inc, 60-67; EXEC. DIR, UNITED COMMUNITY SERV. METROP. BOSTON, INC, 67- Lectr, summer sch. alcohol studies, Yale, 59-61; law-med. inst, Boston, 62-, sch. med. 64-; head div. admin, planning & community dynamics, lab. community psychiat, Harvard Med. Sch, 65-, lectr, sch. pub. health, 66-67, asst. clin. prof. lab. community psychiat, 67- Chief consult, Mass. Rehab. Planning Cmn, 66-68. Mem, N.Am. Asn. Alcoholism Progs, 54-60, 65-, secy-treas, 57-58; mem, Coop. Cmn. Alcoholism, U.S. & Can, 61-66; dir, Mass. Ment. Health Planning Proj, 63-65; Mass. Ment. Retardation Planning Proj, 64-67; mem. ad hoc. study sect, nat. center prev. & control alcoholism, Nat. Inst. Ment. Health, 66-67, chmn. ad hoc study sect, nat. center metrop. ment. health probs, 66-; mem. nat. adv. cmt. alcoholism, Dept. Health, Ed. & Welfare, 66-; acting dir. comprehensive health planning unit, Commonwealth of Mass, 67- AAAS; fel. Sociol. Asn; Soc. Study Social Probs; fel. Pub. Health Asn; Asn. Adv. Study Alcohol & Narcotics; Sch. Health Asn. Social and behavioral problems, especially alcoholism, criminology, delinquency and divorce; health education techniques; social and physical planning; organizational behavior; decision making. Publ: Co-auth, Alcoholism and society, Oxford Univ, 62; auth, Experiments in referral, Quart. J. Study Alcohol, 63; Limits of rationality in planning, J. Community Ment. Health, 65. Address: United Community Services of Metropolitan Boston, Inc, 14 Somerset St, Boston, Mass. 02108.

DEMOS, DEAN GEORGE D, b. Chicago, Ill, Aug. 30, 28; m. 55; c. 2. COUNSELING & EDUCATIONAL PSYCHOLOGY. B.S, North. Ill. State Col, 51; M.S, Illinois, 52; Ph.D, Southern California, 59. Teacher, pub. schs, Ill, 52-54; Calif, 54-56; instr. psychol, Compton Col, 56-57; counsr, Southern California & Vet. Guid. Center, 57-58, head counsr, 58-59; asst. prof. counseling & ed, Long Beach State Col, 59-60; San Fernando Valley State Col, 60-62; assoc. prof. ed. & assoc. dean counseling & testing, CALIF. STATE COL. LONG BEACH, 62-64, DEAN STUDENTS, 64- Lectr, Southern California, 58-60, vis. summer prof, 60; Rutgers, 61. Consult, Riverside County Schs, 59- Cert. counseling, Am. Bd. Exam. Prfnl. Psychol. 66. U.S.A, 46-48. Psychol. Asn; Personnel & Guid. Asn. Counseling process; psychometrics. Publ: Co-auth, Education and guidance of the ablest, C.C. Thomas, 64; Guidance of exceptional child, McKay, 66; Creativity, Wiley, 67. Address: Office of the Dean of Students, California State College at Long Beach, Long Beach, Calif. 90804.

DeMOTT, DR. DONALD W(ARREN), b. Hackensack, N.J, Nov. 15, 28; m. 50; c. 5. PHYSIOLOGICAL PSYCHOLOGY. B.A, Rochester, 50, Ph.D.(physiol. psychol), 57. U.S. Pub. Health Serv. res. fel. PSYCHOL, Rochester, 56-58, res. assoc, 58-65, sr. res. assoc, 65-68; ASST. PROF, STATE UNIV. N.Y. COL. GENESEO, 68- Nat. Inst. Ment. Health res. grant, 58- U.S.N, 50-53, Lt.(jg). AAAS. Investigation of cortical machanisms underlying learning. Publ: Direct measures of the retinal image, J. Optical Soc. Am, 49; 571-579; An inexpensive, multi-channel, electrophysiological recording system, Neurophysiology, 13: 467-470; Cortical microtoposcopy, Med. Res. Eng. 5: 23-29. Address: Dept. of Psychology, State University of New York College at Geneseo, Geneseo, N.Y. 14454.

DEMPSEY, J(OSEPH) R, S.J, b. Cleveland, Ohio, Nov. 13, 18. ECONOMICS, BUSINESS MANAGEMENT. Lit.B, Xavier (Ohio), 41; S.T.L, West Baden Col, 52; M.A, Wisconsin, 56, Ph.D, 58. ASST. PROF. ECON, DETROIT, 58- Res. fel, divinity sch, Yale, 65-66. Indust. Rel. Res. Asn; Econ. Asn. Right to work laws; welfare state; business ethics. Publ: Operation of right to work laws. Address: Dept. of Economics, University of Detroit, Detroit, Mich. 48221.

DEMPSEY, PROF. PAUL, b. Chicago, Ill, Aug. 16, 17; m. 45; c. 2. PSYCHOLOGY. A.B, Amherst Col, 39; A.M, Colorado, 49; Ph.D, California, 51. Asst. prof, Cornell, 52-53; assoc. PSYCHOL, State Ment. Health Cmn, N.Y, 54-56; from instr. to asst. prof. & chmn. dept, California, Davis, 56-65; ASSOC. PROF, SACRAMENTO STATE COL, 65- Consult, Onondaga County Ment. Health Clin, 56; Yolo County Health Dept, Calif, 58- U.S.N.R, 41-46. AAAS; Psychol. Asn. Personality theory and measurement; prediction problem. Address: Dept. of Psychology, Sacramento State College, Sacramento, Calif. 95819.

DEMSETZ, PROF. HAROLD, b. Chicago, Ill, May 31, 30; m. 55; c. 3. ECONOMICS. B.S, Illinois, 53; M.B.A, Northwestern, 54, M.A, 58, Ford Found. fel, 58, Ph.D, 59; Minnesota, 54-55. Instr. econ, Michigan, 58-59, asst. prof, 59-60; California, Los Angeles, 60-64; assoc. prof. BUS. ECON, GRAD. SCH. BUS, CHICAGO, 64-67, PROF, 67- Ford Found. faculty res. fel. bus. admin. & econ, 62-63. Consult, Rand Corp, 61- U.S.A, 53- Econ. Asn. Application of economic theory and econometric methods to the organization and operation of markets. Publ: Effect of consumer experiences on brand loyalty, Econometrica; Toward a theory of property rights, Am. Econ. Rev; The cost of transacting, Quart. J. Econ. Address: Graduate School of Business, University of Chicago, Chicago, Ill. 60637.

DEMSKEY, SIDNEY, Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

DENENBERG, DR. HERBERT S(IDNEY), b. Omaha, Nebr, Nov. 20, 29; m. 58. ECONOMICS, LAW. B.S, Hopkins, 58; J.D, Creighton, 54; LL.M, Harvard, 59; Ph.D.(econ), Pennsylvania, 62. Lawyer, Denenberg & Denenberg, Attorneys at Law, 54-55; asst. prof. INS, Iowa, 62; ASSOC. PROF, PENNSYLVANIA, 62- Consult, U.S. Dept. Labor, 64-; John F. Kennedy Center Performing Arts, 64-; Phila. Sch. Bd, 65- Assoc. dir, Wis. Ins. Laws Revision Cmt, 65-; res. dir. & spec. counsel, ins. adv. panel, Nat. Adv. Cmn. Civil Disorders, 67- Spec. consult. to Mayor of Washington. Judge Advocate Gen.C, U.S.A, 55-58, Capt. Asn. Int. Ins. Law. Insurance; regulation and law of insurance; suretyship. Publ: Co-auth, Risk and insurance, Prentice-Hall, 64 & Life insurance and/or mutual funds, Pageant, 67; auth, The legal definition of insurance, J. Risk & Ins, 62. Address: Dept. of Insurance, Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

DENENBERG, DR. VICTOR H(UGO), Psychol, see 11th ed, Phys. & Biol. Vols.

DENES, DR. PETER B, Elec. Eng, Commun, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

de NEUFVILLE, DR. RICHARD LAWRENCE, b. Jamaica, N.Y, May 6, 39; m. 64. SYSTEMS ANALYSIS, ECONOMICS. B.S. & M.S. Mass. Inst. Tech, 61, Nat. Sci. Found. fel, 62-65, Ph.D.(civil eng), 65. White House fel. Off. Secy. Defense, 65-66; ASST. PROF. CIVIL ENG, MASS. INST. TECH, 66- Consult, Shell Oil Co, 66-; Commonwealth of Mass, 67- Mem, Highway Res. Bd, Nat. Acad. Sci-Nat. Res. Coun. C.Eng, U.S.A.R, 61-62, 1st Lt. Inst. Mgt. Sci; Transportation Res. Forum; Opers. Res. Soc; Asn. Comput. Mach; Soc. Civil Eng. Transportation systems analysis; search and evaluation of alternative transportation systems in the technological and socioeconomic context. Address: Urban Systems Lab, Dept. of Civil Engineering, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

DENEVAN, DR. WILLIAM MAXFIELD, b. San Diego, Calif, Oct. 16, 31; m. 58; c. 2. GEOGRAPHY. B.A, California, 53, M.A, 58, Ph.D.(geog), 63. Consult, U.S. Agency Int. Develop, Brazil, 62; asst. prof. GEOG, WISCONSIN, MADISON, 63-68, ASSOC. PROF, 68- Res. fel, for. area fel. prog, Peru, 65-67. U.S.N.R, 53-55. AAAS; Asn. Am. Geog; Am. Geog. Soc. Am. Anthrop. Asn; Latin Am. Studies Asn. Historical geography and cultural ecology of aboriginal tropical America, especially western Amazonia. Publ: The upland pine forests of Nicaragua: a study in cultural plant geography, 61 & The aboriginal cultural geography of the Llanos de Mojos of Bolivia, 66, Univ. California; co-auth, Pre-Columbian ridged fields, Sci. Am, 67. Address: Dept. of Geography, University of Wisconsin, Madison, Wis. 53706.

DENHOLM, DONALD HOWARD, b. Elizabeth, N.J, May 31, 20; m. 43; c. 2. INDUSTRIAL ENGINEERING. B.S, Pa. State, 42; M.S, Washington (St. Louis), 52. Chief indust. eng, Chase Bag Co, 42-57, mgr. New Orleans Factory, 57-60; exec. v.pres, Ames Bag & Packaging Co, 60-61; PRIN. ENGR, BROWN ENG. CO, 61- Instr, Washington (St. Louis), 55-57; Alabama, Huntsville, 61-68. Consult, City of Huntsville, Ala, 61-68. U.S.N.R, 42-46, Lt. Inst. Indust. Eng. Production processes; behavioral sciences; organizational theory. Publ: Cost effectiveness, In: Value engineering handbook, Hayden, 67; The role of the finance officer in acquisitions and mergers, Am. Asn. Acct. J, 67; Network planning—a new shop tool, Iron Age, 4/68. Address: Brown Engineering Co, 300 Sparkman Dr, Huntsville, Ala. 35807.

DeNIKE, DR. L(YMAN) DOUGLAS, b. Cambridge, Mass, Sept. 22, 37. CLINICAL PSYCHOLOGY. A.B, Harvard, 59; J.B. Duke fel, Duke, 59-61, Ph.D. (psychol), 64. ASST. PROF. psychol, SOUTHERN CALIFORNIA, 64-67, PSYCHIAT, 67-; CLIN. PSYCHOLOGIST, LOS ANGELES COUNTY GEN. HOSP, 67- U.S.A.R, 56-59. Psychol. Asn; Psychonomic Soc. Cognitive processes in verbal learning; psychotherapy. Publ: The temporal relationship between awareness and performance in verbal conditioning, J. Exp. Psychol, 12/64; co-auth, Descriptive behaviorism versus cognitive theory in verbal operant conditioning, Psychol. Rev, 7/66 & Neurotic behavior, In: Foundations of abnormal psychology, Holt, 68. Address: 1934 Hospital Place, Los Angeles, Calif. 90033.

DENISON, DR. EDWARD F(ULTON), b. Omaha, Nebr, Dec. 18, 15; m. 41; c. 2. ECONOMICS. A.B, Oberlin Col, 36; A.M, Brown, 38, univ. fel, 38-39, Ph.D.(econ), 41; univ. fel, Brookings Inst, 40-41. Instr. econ, Brown, 40-41; economist, U.S. Dept. Commerce, 41-47, acting chief nat. income div, 48; asst. dir. office bus. econ, 49-56, economist, cmt. econ. develop, 56-60, assoc. dir. res, 60-62; MEM. SR. STAFF, ECON. STUDIES DIV, BROOKINGS INST, 62- Lectr, American Univ, 46; Ford rotating res. prof, California, Berkeley, 66-67. Chief aggregates unit, U.S. Strategic Bombing Surv. of Germany, 45; chmn. exec. cmt, conf. res. income & wealth, Nat. Bur. Econ. Res, 58-60. Econ. Asn; fel. Statist. Asn. National income; current business analysis. Publ: Why growth rates differ: postwar experience in nine western countries, Brookings Inst, 67; Saving in the national economy, Surv. Current Bus; Sources of economic growth in the United States and the alternatives before us. Address: Brookings Institution, 1775 Massachusetts Ave. N.W, Washington, D.C. 20036.

DENMAN, DR. FREDERICK L(OCKWOOD), b. Tacoma, Wash, Mar. 23, 29; m. 51; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. B.S, U.S. Mil. Acad, 51; Ph.D.(bus. admin), California, Berkeley, 64. Salesman, U.S. Chamber Commerce, 55; Encyclop. Britannica, 55-57, dist. sales mgr, 57; asst. prof. MKT. & INT. BUS, WASHINGTON (SEATTLE), 61-67, ASSOC. PROF, 67- Sig.C, U.S.A, 51-55, 1st Lt. Mkt. Asn. Classification of organizations; international monetary system; consumer influence; regional input-output analysis; distributive education. Publ: Co-auth, The Washington economy: an input-output study, Univ. Washington, 67 & Relative importance and preparation for distributive education subject areas, U.S. Dept. Health, Ed. & Welfare, 67; auth, The reliability of regional interindustry studies, J. Mkt. Res, 11/66. Address: Graduate School of Business Administration, University of Washington, Seattle, Wash. 98105.

DENMAN, DR. SIDNEY B(RUNSON), b. Brown's Wells, Miss, Mar. 31, 24; m. 47; c. 3. MEDICAL SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Miss. Col, 47; M.A, Tulane, 50; Ph.D, Duke, 56; M.A, Stetson, 63. Asst. rural sociologist, Clemson, 50; asst. prof. sociol, Stetson, 50-53, soc. psychol, 53-56, assoc. prof, 56-59, prof, 59-66, chmn. dept. sociol, 60-66; ASSOC. PROF. SOCIOL. IN PSYCHIAT, COL. MED, FLORIDA, 66-; CONSULT, MED. SOCIOLOGIST, ANCLOTE MANOR FOUND, 67- Fel. behav. sci, col. med, Florida, 64-65. U.S.A, 43-45. Fel. Sociol. Asn; Psychol. Asn. Medical sociology; social and counseling psychology; psychiatric research. Publ: A role for the sociologist in psychiatric milieu therapy; Quantity of family psychotherapy and reported post-hospital adjustment of 132 psychiatric patients; Characteristics of patients discharged from a psychiatric inpatient unit against medical advice. Address: Dept. of Psychiatry, University of Florida College of Medicine, Gainesville, Fla. 32601.

DENMAN, DR. WILLIAM F, b. East Orange, N.J, Sept. 11, 29; m. 58; c. 3. PSYCHOLOGY, HIGHER EDUCATION. B.S, Purdue, 52, M.A, Oregon, 54, Ph.D.(psychol, higher ed), Syracuse, 66. Head counselor freshmen, Oregon, 52-54; asst. to dean men, Syracuse, 54-56; asst. dean men, Oregon, 56-58; asst. dean students, 58-60; asst. prof. psychol, Elmhurst Col, 61-65, assoc. prof, 65-67, dean students, 61-67, res. grant, 64-66; ASSOC. PROF. HIGHER ED. & DEAN STUDENT AFFAIRS, ARKANSAS, 67- Asn. Higher Ed. College students and their environment; organization of higher education. Address: Division of Student Affairs, University of Arkansas, Fayetteville, Ark. 72701.

DENMARK, DR. FLORENCE L, b. Philadelphia, Pa, Jan. 28, 32; m. 53; c. 3. PSYCHOLOGY. A.B, Pennsylvania, 52, A.M, 54, Ph.D.(psychol), 58. Asst. PSYCHOL, Pennsylvania, 52-55, asst. instr, 55-58; instr, HUNTER COL, 64-67, ASST. PROF, 67-, DIR. SPEC. PROG. DISADVANTAGED, 68- Center human rels, Univ. Pennsylvania res. grant, 55; lectr, Queens Col. (N.Y), 59-, dir. res. & consult, SEEK prog, 66-68, consult, adult continuing ed. prog, 67-; Res. Found. State N.Y. res. grant, 66; U.S. Off. Ed. res. grant, 66-67; released time award, Hunter Col, 67. Consult, Manhasset Schs, 64-66. AAAS; Psychol. Asn; Int. Soc. Psychol. Group processes, communication and social influence; self-evaluation and self-concept; intergroup relations; interpersonal perception. Publ: Co-auth, Communication patterns in integrated classrooms and pre-integration subject variables as they affect the academic achievement and self-concept of previously segregated children, U.S. Off. Ed. Bur. Res, 67, Effect of differential valuation on group level of aspiration, decision, time and productivity, J. Soc. Psychol, 65 & Dissonance in the self and educational concepts of college and non-college oriented women, J. Counseling Psychol, 67. Address: Dept. of Psychology, Hunter College, New York, N.Y. 10021.

DENNER, DR. BRUCE, b. New York, N.Y, Dec. 3, 38; m. 63; c. 2. PSYCHOLOGY. B.S, City Col. New York, 60; M.A, Clark, 61, Ph.D.(psychol), 65. Clin. trainee, Worcester State Hosp, 64-65. ASST. PROF. PSYCHOL, INDIANA, 65- Psychol. Asn; Soc. Psychol. Study Social Issues. Organismic factors in perception; development of symbolization and communication; interpersonal strategies, especially deceit. Publ: Rhythmic activity and discrimination, Perceptual & Motor Skills, 64; Developmental analysis of amnesic syndrome, Brit. J. Med. Psychol, 67; Did a crime occur? A study in deception, J. Personality, 68. Address: Psychological Clinic, Indiana University, Bloomington, Ind. 47401.

DENNERLL, DR. RAYMOND DANIEL, JR, b. Cincinnati, Ohio, Sept. 19, 20; m. 45; c. 2. PSYCHOLOGY, NEUROPSYCHOLOGY. B.A, Wayne State, 51, M.A, 52, Ph.D.(psychol), 63. Clin. psychologist, MICH. EPILEPSY CENTER, 52-53, exec. dir. & chief psychologist, 54-59, EXEC. DIR. & DIR. PSYCHOL. & SOC. RES, 60- Psychol. Asn; Epilepsy Soc; Int. Neuropsychol. Soc.(pres. elect, 67). Cognitive and personality deficits related to brain dysfunction or damage; problems of employability in epilepsy; attitudes of patients, parents and public in epilepsy. Publ: Wise and Wais factors in children and adults with epilepsy, J. Consult. Psychol, 64; Cognitive deficits and lateral brain dysfunction in temporal lobe epilepsy, 64 & co-auth, Neurological and psychological factors related to employability of persons with epilepsy, 67, Epilepsia. Address: Director of Psychological & Social Research, Michigan Epilepsy Center, 10 Peterboro, Detroit, Mich. 48201.

DENNEY, PROF. REUEL, b. New York, N.Y, Apr. 13, 13; m. 38; c. 1. SOCIAL SCIENCES. B.A, Dartmouth Col, 32; Guggenheim fel, 41. Teacher, high schs, N.Y, 35-40; contrib. ed, Time Mag, 41-43; assoc. ed, Fortune Mag, 43-47; asst. prof. humanities, Chicago, 47-52, PROF, 52-61; AM. STUDIES, HAWAII, 61- Vis. prof, Puerto Rico, 56; fel, Wesleyan Univ. Inst. Adv. Studies, 59-60; distinguished vis. prof, east-west center, Univ. Chicago, 61-62, sr. res. colleague, 67-68; summers, vis. prof, Minnesota, 56; Doshisha & Kyota Univs, Japan, 63. Cmnr, Hawaii State Found. Culture & Arts. AAAS; Am. Studies Asn. Publ: Connecticut river, Yale, 39; Astonished muse, 57 & In praise of Adam, 64, Univ. Chicago. Address: Apt. 315, 2957 Kalakaua, Honolulu, Hawaii 96815.

DENNIS, DR. CARLETON CECIL, b. Adrian, Mich, Oct. 21, 23; m. 45; c. 3. AGRICULTURAL ECONOMICS. B.S, Mich. State, 54, M.S, 56; Ph.D, California, 59. Asst. agr. econ, California, 55-56; co-op. agent agr. mkt, Univ. California & U.S. Dept. Agr, 56-59; asst. prof. agr. econ, Mich. State, 59-62; agr. economist, U.S. Dept. Agr, 62-65; DIR. ECON, AGWAY INC, 65- U.S.N, 43-46, 50-53, Lt. Agr. Econ. Asn. Agricultural marketing and prices; interregional competition. Publ: Interregional competition in the frozen strawberry industry, Hilgardia; Supply management-potential effect on tart cherry producer incomes, J. Farm. Econ, 11/63; Co-auth; Tart cherry industry: processing costs and efficiency, Mich. State, 65. Address: P.O. Box 1333, Agway Inc, Syracuse, N.Y. 13201.

DENNIS, HENRY CHARLES, b. Brooklyn, N.Y; m. 46. ECONOMICS, COUNSELING. B.A, New Mexico, 49, M.A, 52; Pratt Inst, 35; Tennessee, 44; N.Y. Univ, 45-47; univ. fel, New Mexico Highlands, 63, Newspaper Fund fel, 64; univ. fel, New Mexico State, 66. Counsr, Vet. Admin. Regional Off, N.Y, 45-50; engr, Mt. States Tel. & Tel. Co, N.Mex, 52-56; dir. res, N.Mex. Bur, 56-65; SOCIOLOGIST, ALBUQUERQUE PUB. SCH. SYST, 65- Dir. teachers of alcoholism workshop, Albuquerque Area Schs, 67-68; lectr, Adams State Col, summer, 67. Partner, Henry Dennis & Assocs, 57- Adv, State Hwy. Dept, N.Mex, 58-62, resources planner, State Planning Off, 62-; consult, Thorne Films, Inc, Colo. Del, Nat. Coun. Soc. Sci, 66, parliamentarian, 67, chmn. sociol. sect, 67-, ed, Handbook, 67-68; ed-compiler, teaching mat. kits, Random House, 68- U.S.A, 40-44, Sgt. Am. Econ. Asn; Soc. Pub. Admin; Personnel & Guid. Asn; Acad. Polit. & Soc. Sci; fel. Royal Econ. Soc. Demographic and socio-economic trends and application of human natural energy and economic resources of New Mexico. Publ: History of labor in New Mexico; Value of an education to a Pueblo Indian; Transportation studies in New Mexico. Address: Box 211, ASR, Corrales Rd. N.W, Alameda, N.Mex. 87114.

DENNIS, DR. JACK (STANLEY), b. Tulsa, Okla, May 24, 33; m. 60; c. 3. POLITICAL SCIENCE. B.A, Oklahoma, 55; B.A, Oxford, 57, M.A, 62; M.A, Chicago, 60, Ph.D.(polit. sci), 62. Asst. prof. POLIT. SCI, WISCONSIN, MADISON, 63-68, ASSOC. PROF, 68- Mem. res. & theory cmt. polit. socialization, Coun. Civic Ed, 65-67; inventory cmt, Coun. Soc. Sci. Data Arch, 67- U.S.A, 57-58, 2nd Lt. Polit. Sci. Asn. Political socialization; mass political behavior. Publ: Co-auth, The child's image of government, The Annals, 9/65; auth, Support for the party system by the mass public, 9/66 & The child's acquisition of regime norms: political efficacy, 3/67, Am. Polit. Sci. Rev. Address: Dept. of Political Science, North Hall, University of Wisconsin, Madison, Wis. 53706.

DENNIS, LAWRENCE EDWARD, Mass Commun, see 10th ed, Soc. & Behav. Vols.

DENNIS, PROF. WAYNE, b. Sitka, Ohio, Sept. 1, 05; m; c. 3. PSYCHOLOGY. B.A, Marietta Col, 26; M.S, Clark, 28, Ph.D.(psychol), 30. Instr. PSYCHOL, Mich. State Col, 29; acting asst. prof, Virginia, 29-30, asst. prof, 30-42; prof. & head dept, La. State, 42-43; Pittsburgh, 46-51; PROF, BROOKLYN COL, 51-, head dept, 51-61. Soc. Sci. Res. Coun. fel, 36-37; vis. prof, Clark, 37-38; lectr, George Washington, 44; vis. prof, American Univ, Beirut, 55-56, 58-59; U.S. Pub. Health Serv. res. grant, 62-69. Ed, Psychol. Bull, 53-58. With Off. Naval Res; U.S.N.R, 43-46, Lt. Fel. Psychol. Asn; Soc. Res. Child Develop; Gerontol. Soc. Child development; history of psychology. Publ: The Hopi child, 40; Readings in the history of psychology, 48; Group values through children's drawings, 66. Address: Dept. of Psychology, Brooklyn College, Brooklyn, N.Y. 11210.

DENNISTON, DR. ROLLIN, H, II, Physiol, see 11th ed, Phys. & Biol. Vols.

DENNY, PROF. BREWSTER C(ASTBERG), b. Seattle, Wash, Sept. 5, 24; m. 50; c. 1. POLITICAL SCIENCE. A.B, Washington (Seattle), 45; M.A, Fletcher Sch. Law, 48, Ph.D, 59. Instr. hist. & for. policy, Mass. Inst. Tech, 48-52; mem. staff, Dept. Defense, 52-60; prfnl. staff mem, U.S. Senate Subcmt. Nat. Policy Mach, 60-61; assoc. prof. pub. admin, WASHINGTON (SEATTLE), 61-64, PROF. PUB. AFFAIRS, 64-, DIR. GRAD. SCH. PUB. AFFAIRS, 62- Consult, Rand Corp, 61-; cmnr, U.S-P.R. Cmn. Status P.R, 64-68; mem. exec. cmt, Coun. Grad. Ed. Pub. Admin, 64-, chmn-elect, 67-68, chmn, 68- U.S.N, 43-46, 52-54, Lt. AAAS; Soc. Pub. Admin; Polit. Sci. Asn. American foreign policy; science and public policy; Soviet-American relations. Publ: Co-auth. & ed, Organizing for national security, U.S. Senate, 61; auth, Science and public policy; a literature in search of field, Pub. Admin. Rev, 9/65. Address: Graduate School of Public Affairs, University of Washington, Seattle, Wash. 98105.

DENNY, PROF. M(AURICE) RAY, JR, b. Terre Haute, Ind, Nov. 5, 18; m. 42; c. 2. PSYCHOLOGY. B.S, Michigan, 42, M.A, 43; Ph.D.(psychol), Iowa, 45. Asst, Michigan, 42-43; Iowa, 43-45; instr. psychol. & counsr, Oklahoma, 45-46; asst. prof. PSYCHOL, MICH. STATE, 46-53, assoc. prof, 53-57, PROF, 57- Mem. exp. psychol. study sect, Nat. Insts. Health, 64-68. Consult, Vet. Admin; sr. consult, ed. develop. prog, Mich. State, 64-66. Psychol. Asn; Psychonomic Soc. Learning; motivation; theory; learning in the mentally retarded. Publ: Co-auth, Comparative psychology, Dorsey, 64; auth, Elicitation theory, Psychol. Rev; The effect of punishing a single failure to avoid, J. Comp. Physiol. Psychol, 67. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

DENNY, DR. TERRY, b. Detroit, Mich, June 6, 30; m. 54; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, Wayne State, 54; M.A, Michigan, 57; Ed.D, Illinois, 62. Teacher, elem. sch, Mich, 55-57; researcher ed. psychol, Illinois, 57-60; assoc. prof. ed. & psychol, Purdue, 60-67; COORDINATOR FIELD RES, ED. PROD. INFO. EXCHANGE, ILLINOIS, URBANA, 67- U.S.A, 51-54. Classroom research in the elementary school, especially non-intellectual factors, children's perceptions of the reading act, and the creative act. Publ: Co-auth, Inventory of religious outcomes, Univ. Notre Dame, 65 & Why children want to read, Elem. Sch. J, 5/66; auth, Once upon a Montessori, Ed. Forum, 5/66. Address: 308 W. Iowa, Urbana, Ill. 61801.

DeNOVO, PROF. JOHN A(UGUST), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DENSMORE, DR. MAX L, b. Elwell, Mich, Mar. 26, 35; m. 60; c. 2. MARKETING MANAGEMENT, ADMINISTRATIVE SCIENCES. A.B, Mich. State, 57, Ph.D.(admin), 65; M.B.A, Western Michigan, 63. Coordinator sales admin, Dow Chem. Co, 57-58, mgr. chem. mkt, 60-61; assoc. conf. consult. exec. develop, Michigan State Univ, 64-65, asst. dir, 65; PROF. MKT, DAYTON, 65-, dir. sci. seminar series prog. & contract admin, 66, chmn. dept. exec. develop, 66-67. U.S.A, 58-60. AAAS; Mgt. Asn; Mkt. Asn; Econ. Asn. Quantitative administrative evaluation; industrial marketing and administrative systems. Address: Dept. of Marketing, University of Dayton, Dayton, Ohio 45409.

DENT, PROF. CONSTANCE PENN, b. Brooklyn, N.Y, May 29, 23. PSYCHOLOGY. B.A, Bucknell, 45; M.A, Temple, 51; Am. Asn. Univ. Women fel. & Ph.D.(clin. psychol), Pa. State, 58. Case worker, Dept. Pub. Assistance, Pa, 45-49; counsr. & interviewer, personnel dept, Phila. Inquirer, 49-50; asst. prof. psychol. & dean women, Lebanon Valley Col, 51-57; asst. prof. psychol. & asst. dir. counseling center, Maryland, 58-59; dean women, Glassboro State Col, 59-61; Pennsylvania, 61-66; PROF. PSYCHOL, KUTZTOWN

STATE COL, 66- Clinical psychology. Address: Dept. of Psychology, Kutztown State College, Kutztown, Pa. 19530.

DENT, DR. JAMES K(ELSO), b. Millvale, Pa, Apr. 17, 17; m. 49; c. 2. PSYCHOLOGY, ECONOMICS. A.B, Allegheny Col, 39; M.B.A, Michigan, 47, Ph.D.(psychol), 58. Sales statistician, cent. off, Gen. Motors Corp, 47-49; study dir, Surv. Res. Center, 49-52, human rels. prog, 52-57; asst. prof. psychol. & res. assoc, indust. rel, Wayne State, 57-61; RES. PSYCHOLOGIST, prinl. serv. br, NAT. INST. MENT. HEALTH, 61-63, BIOMET. BR. & ADULT PSYCHIAT. BR, 63- Ford Found. fel, 60-61. Mem, Sci. Manpower Cmn, 64- U.S.A, 42-45. Psychol. Asn; Econ. Asn; Sociol. Asn; Indust. Rels. Res. Asn. Methods of social science research; organization theory and practice; economic organization; industrial relations; social psychology of motivation, attitudes and values. Publ: Organizational correlates of the goals of business managements', Personnel Psychol; co-auth, Supervisor, member of two organizational families, Harvard Bus. Rev. & Employee health services, a study of managerial attitudes and evaluations. Address: National Institute of Mental Health, Bethesda, Md. 20014.

DENT, DR. ORAN B(AILEY), b. Memphis, Tenn, Nov. 2, 37. CLINICAL PSYCHOLOGY. B.A, Southwestern at Memphis, 59; M.A, Vanderbilt, 61; Ph.D. (clin. psychol), Tennessee, 65. ASST. PROF. PSYCHOL, MIAMI (OHIO), 65- Intermittent staff psychologist, Vet. Admin. Center, Dayton, Ohio, 67- AAAS; Psychol. Asn. Experimental clinical psychology; training of the practitioner-researcher in clinical psychology; methodological problems in behavioral change. Publ: An investigation of attitudes toward work adjustment of the blind, The New Outlook Blind, 62; co-auth, A vocational preference rank technique, Personnel & Guid. J, 65 & Trust assertion of blind and sighted subjects toward the blind and the sighted, Rehab. Counseling Bull, (in press). Address: Dept. of Psychology, Miami University, Oxford, Ohio 45056.

DENTAN, DR. ROBERT K, b. New Haven, Conn, Aug. 28, 36; m. 60. ANTHROPOLOGY. B.A, Yale, 58, Ph.D.(anthrop), 65. ASST. PROF. ANTHROP, OHIO STATE, 64- Anthrop. Asn. Human ecology and ritual. Publ: The Semai, Holt, 68. Address: Dept. of Anthropology, Ohio State University, Columbus, Ohio 43210.

DENTLER, PROF. ROBERT ARNOLD, b. Chicago, Ill, Nov. 26, 28; m. 50; c. 3. SOCIOLOGY. B.S, Northwestern, 49, M.A, 50; M.A, American Univ, 54; Ph.D.(sociol), Chicago, 60. Master, private sch, Conn, 50-52; intel. officer, U.S. Govt, 52-54; instr. sociol, Dickinson Col, 54-57; study dir, family study center, Univ. Chicago, 57-59; Nat. Opinion Res. Center, 58-59; asst. dir. bur. child res, Univ. Kansas, 59-61; asst. prof. sociol, Dartmouth Col. 61-62; assoc. prof. SOCIOL. & ED, TEACHERS COL, COLUMBIA, 62-65, PROF, 66-, DIR. CENTER URBAN ED, 66- Vis. prof, Wesleyan, 63-64; Rutgers, 64-; Cornell, 65- Consult, U.S. Urban Renewal admin. & U.S. Soc. Security Admin, 62-64. Sociol. Asn; Soc. Study Social Probs. Social psychology; political and urban sociology; sociology of education; research administration. Publ: Co-auth, Politics of urban renewal, Macmillan, 62; Hostage America, Beacon, 63; auth, Major American social problems, Rand McNally, 67. Address: 6 Berkeley Rd, Scarsdale, N.Y. 10583.

DENTON, DR. ALFRED MAXEY, JR, b. Sulphur, Okla, Sept. 23, 26; m. 51; c. 2. SOCIOLOGY. B.S, Okla. Agr. & Mech. Col, 49; M.A, North Carolina, 51, Ph.D.(sociol), 60. Assoc. prof. SOCIOL, Salem Col.(N.C), 57-59, prof. & chmn. dept, 59-62; assoc. prof, APPALACHIAN STATE, 62-64, PROF. & CHMN. DEPT, 64- Sociol. Asn; Pop. Asn. Demography; stratification; educational sociology. Publ: Co-auth, In the shadow of a defense plant, Inst. Res. Soc. Sci, 54. Address: Dept. of Sociology, Appalachian State University, Boone, N.C. 28607.

DENUM, DR. DONALD D, b. Lufkin, Tex, May 9, 20; m. 45; c. 4. PSYCHOLOGY, EDUCATION. B.S, Houston, 49; M.A, Texas, 52, Ph.D.(ed. psychol), 60. Psychometrist, testing & guid. center, Texas, 49; teacher, Clear Creek Sch. Syst, 50-51, dir. guid. & res, Clear Creek Independent Sch. Dist, 51-54; Midland Independent Sch. Dist, Tex, 54-56; dir. res, Tex. Ed. Agency, State Dept. Ed, 57-60; dir. res. & develop, Calif. Test Bur, 60-64; ASSOC. PROF. PSYCHOL, OKLA. STATE, 64- U.S. Off. Ed. res. grant, 67. Chief consult, Fed. Aviation Agency Proj, 66-67. Ed, language perception test series, Psychol. Ed. Serv, Inc, 67. Mem, planning cmt, Nat. Defense Ed. Act, 58; resource mem. initial orgn. workshop, Interuniv. Commun. Orgn, summer, 66. U.S.A, 41-45. Soc. Adv. Mgt; Psychol. Asn; Soc. Cybernet. Symbiotic relationship between human organisms and the mechanistic systems which constitute an integral part of the organisms immediate environment; procedures for identifying and measuring psychological processes in the human organism. Publ: Use of the Stanford-Binet intelligence scale as a criterion instrument for norming all levels of the 1963 revision of the California test of mental maturity series, Nat. Cmt. Measurement & Eval, 2/63; Edunet, 67. Address: Dept. of Psychology, Oklahoma State University, Stillwater, Okla. 74075.

DENUNE, PROF. PERRY P(ERDUE), Sociol, see 10th ed, Soc. & Behav. Vols. Latest known address: 1551 Pacific Ave, Santa Rosa, Calif. 95404.

DE PALMA, DR. NICHOLAS, b. Italy, Aug. 30, 13; nat; m. 44; c. 3. CLINICAL PSYCHOLOGY. A.B, Harvard, 39; M.A, Boston, 42; Ed.D.(psychol), Calvin Coolidge Col, 55. Psychologist, Gardner State Hosp, 46-47; East. State Hosp, 52-53; psychometrist, Walter E. Fernald State Sch, 53-54; clin. psychologist. Mass. Gen. Hosp, 54-55; chief clin. psychologist, Hosp. Ment Retarded, 55-57; Davidson County Hosp, 57-59; staff psychologist, Vet. Admin, 59-63; CHIEF PSYCHOLOGIST, METROPOLITAN BORDEAUX HOSP, 63- U.S.A.A.F, 42-45. Psychol. Asn; Sociol. Asn. Professional ethics of psychologists; projective techniques. Publ: Professional ethics for graduate students in psychology, Am. Psychologist; Rorschach combined location and record form; Scores of alcholics in the 16 PF test, J. Clin. Psychol. Address: 811 Caldwell Lane, Nashville, Tenn. 37204.

de PENA, DR. JOAN F(INKLE), b. Lincoln, Nebr, Dec. 3, 23; div; c. 2. ANTHROPOLOGY, BIOLOGY. B.A, Nebraska, 45, Nat. Sci. Found. fel, 53-54; Columbia, 45-48; fel, Puerto Rico, 48-50; fel, Indiana, 56-57, Ph.D.(anthrop), 58. Asst. anthrop, Indiana, 54-56, 57-58; instr, St. Louis, 58-60, asst. prof, 60-63, anat, sch. med, 63-66; ASSOC. PROF. ANTHROP, MANITOBA, 66- Consult, health orgn. res. prog, St. Louis Univ, 58-66, dept. orthodont, 59-66. Asn. Phys. Anthrop; fel. Anthrop. Asn. Human bioecology; human evolution; biology of growth; applied anthropology of American Indian. Address: Dept. of Anthropology, University of Manitoba, Winnipeg 13, Man, Can.

DePHILLIPS, PROF. FRANK A(NTHONY), b. New York, N.Y, Sept. 20, 08; m. 32; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, City Col. New York, 32; M.A, N.Y. Univ, 43; Ph.D.(ed. psychol), Fordham, 53. PROF. MGT, N.Y. Univ, 39-61; ST. JOHN'S (N.Y), 61-, CHMN. DEPT, 66- Lectr, Stevens Inst. Tech, 46-49. Tech. training adv, U.S. Dept. Army Air Force, 42-45; coordinator & supvr. human rels. training, Pa. R.R, 51-54; ed. adv, N.Y. Trust Co, 56-59; ed. & training adv, Lorenz-Schneider Co, 58-63; mgt. consult, Yorkshire Food Co, 61-64; supvry. training coordinator, Columbia Broadcasting Syst, 61-66; sales mgt. training adv, Trans World Airlines, 66-; training coordinator, Bowery Savings Bank, 67- Psychol. Asn; Acad. Mgt. Personnel and industrial psychology; human relations. Publ: Co-auth, Management of training programs, Irwin, 61; auth, How to make worry work for you, Nations Bus, 60; How to activate the quiet man in the conference, Am. Soc. Training Dirs, 60. Address: Dept. of Management, St. John's University, Grand Central & Utopia Pkwys, Jamaica, N.Y. 11342.

De PILLIS, DR. MARIO S(TEPHEN), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DE PODWIN, DR. HORACE J(OHN), b. Brooklyn, N.Y, Oct. 28, 22; m. 48; c. 4. ECONOMICS. A.B, Middlebury Col, 43; A.M, Columbia, 49, Ph.D.(econ), 54. Asst. prof. econ, Rutgers, 47-54; mgr. pub. affairs res. & planning, Gen. Elec. Co, 54-63; DEAN GRAD. SCH. BUS, RUTGERS, 66- Lectr, grad. sch. bus, admin, Rutgers & N.Y. Univ, 54-66; consult, Kennedy Round, U.S. Govt, 63-64; pres, Horace J. DePodwin Assocs, Inc, 64- U.S.A, 43-46. Address: 145 Wyoming Ave, Maplewood, N.J. 07040.

DePOISTER, PROF. W. MARSHON, b. Keithsburg, Ill, July 12, 12; m. 36; c. 3. SOCIOLOGY. B.A, Phillips, 32, M.A, 33; B.D, Vanderbilt, 34; M.A, Chicago, 36, Ph.D.(sociol), 51. Instr. sociol, Indiana, 44-46; assoc. prof, Grinnell Col, 46-54; dean admin, William Woods Col, 54-56; Chapman Col, 56-59; spec. investr, Calif. Dept. Probtn, 59-60; PROF. HUMAN BEHAV. & SOCIOL, CALIFORNIA WESTERN, 60- Ed, J. Campbell Inst, 56-59. Sociol. Asn; Nat. Coun. Family Rels. Sociological inquiry into the origins and nature of religion, with special attention to patterns of change; current social-psychological problems associated with the modern family. Publ: Co-auth, Introduction to sociology, Prentice-Hall, 54. Address: Dept. of Sociology & Human Relations, California Western University, 3902 Lomaland Dr, San Diego, Calif. 92106.

DePORTE, DR. J(OSEPH) V(ITAL), Statist, see 11th ed, Phys. & Biol. Vols.

DEPPERSCHMIDT, PROF. THOMAS ORLANDO, b. St. Louis, Mo, Dec. 3, 35; m. 57; c. 6. ECONOMICS. A.B, Ft. Hays Kans. State Col, 58; Ph.D.(econ), Texas, 65. Asst. prof. ECON, West Texas State, 61-64, assoc. prof, 64-66; PROF, MEMPHIS STATE, 66- U.S.A, 54-56. Econ. Asn; Indust. Rel. Res. Asn. Publ: Co-auth, Memphis-Shelby County manpower survey, In: Ed. Assessment-Memphis, Cent. Midwest. Regional Ed. Lab, Inc, 67. Address: Dept. of Economics, Memphis State University, Memphis, Tenn. 38111.

DePROSPO, DR. ERNEST ROCCO, JR, b. Worcester, Mass, Jan. 10, 37; m. 59; c. 1. PUBLIC ADMINISTRATION. A.B, Clark, 59; M.A, Northeastern, 61; Ph.D.(polit. sci), Pa. State, 67. Teaching fel. polit. sci, Northeastern, 59-61; res. analyst, inst. pub. admin, Pa. State, 63-64; res. consult, Inst. Pub. Admin, N.Y. in Lima, Peru, 64-65; instr. Latin Am, Pa. State, 65, 66-67, res. asst. local govt, inst. pub. admin, 66, res. assoc. admin, 66-67; ASSOC. PROF. ADMIN, GRAD. SCH. LIBRARY SERV, RUTGERS, 67- Co-dir. Ford Found. Latin Am. Pub. Admin. Task Force, Pa. State, 66-67. Polit. Sci. Asn; Soc. Pub. Admin. Developmental administration, especially Latin America; administration of library systems; development of library services in urban environments, especially political and administrative factors. Publ: Auth. & ed, Directorio del gobierno central-Peru, ONRAP, 64; co-auth, Interlocal cooperation: Laveron County Library, Inst. Pub. Admin, Pa. State, 65; auth, Emerging trends in state department of administration, In: Changing dimensions in public administration, 62. Address: 11 Mayfield Place, Metuchen, N.J. 08840.

DERAN, DR. ELIZABETH Y, b. Fresno, Calif, Jan. 23, 26. ECONOMICS. B.A, Fresno State Col, 55; Newton Booth fel, California, Berkeley, 58, Ph.D. (econ), 59. Asst. prof. econ, California, Santa Barbara, 59-60; res. asst. prof, Illinois, 60-62; fiscal economist, off. tax anal, U.S. Dept. Treas, 62; SR. RES. ANALYST PUB. FINANCE, TAX FOUND, INC, 63- W.A.C, 51-54. Econ. Asn; Govt. Res. Asn. Publ: The successful shopkeeper: retailer survival, Univ. Illinois, 63; Earmarking and expenditures: a survey and a new test, Nat. Tax J, 65; Changes in factor income shares under social security tax, Rev. Econ. & Statist, 11/67. Address: 12 W. 19th St, New York, N.Y. 10011.

DERBER, PROF. MILTON, b. Providence, R.I, June 19, 15; m. 40; c. 2. ECONOMICS. A.B, Clark, 36; Soc. Sci. Res. Coun. fel, Wisconsin, 36-39, A.M, 37, Ph.D, 40. Res. assoc, Twentieth Century Fund, 39-40; economist, U.S. Bur. Labor Statist, 40-41, Labor Econ. Off, 46-47; field examiner, Nat. Labor Rel. Bd, 41-42; economist, Off. Price Admin, 42-43; economist & chief res. div, Nat. War Labor Bd, 43-45; assoc. prof. econ, INST. LABOR & INDUST. REL, ILLINOIS, 47-49, PROF. LABOR & INDUST. REL, 49- Indust. Rel. Res. Asn.(ed, 48-50). Labor relations; labor dispute settlement and wage stabilization in World War II. Publ: Co-auth, Plant union-management relations, Univ. Illinois, 65; Research in labor problems in the United States, Random, 67; Labor-management relations in Illini City. Address: Institute of Labor & Industrial Relations, University of Illinois, Champaign, Ill. 61820.

DERBYSHIRE, DR. ROBERT LEE, b. Baltimore, Md, June 2, 29; m. 48; c. 5. SOCIOLOGY, PSYCHIATRY. B.S, Maryland, 54, M.A, 59, Ph.D.(sociol, psychiat), 64; Oklahoma, 62; California, Los Angeles, 66. Teacher, Baltimore

Publ. Sch. Syst, 52-59; instr. sociol, Morgan State Col, 59-61; med. sociol. in psychiat, psychiat. inst, sch. med, Maryland, 61-64, asst. prof. sociol, 64-65, lectr, univ. col, 62-65; assoc. dir. community & soc. psychol. training prog, California, Los Angeles, 65-66; asst. prof. SOCIOL. IN PSYCHIAT, PSYCHIAT. INST, SCH. MED, MARYLAND, 66-67, ASSOC. PROF, 67-, DIR. UNDERGRAD. PSYCHIAT. ED, 67- Lectr, eve. col, Morgan State Col, 61-65; Baltimore Jr. Col, 62-63; dir, Mex-Am. Proj, ment. health planning prog, Health & Welfare Coun, Los Angeles, Calif, 65-66. Res. consult, Crownsville State Hosp, Md, 62-64; consult, Center Training Community Psychiat, Los Angeles, 65-66; res. dept, Dept. Ment. Hyg, Calif, 66. U.S.M.C, 46-48, 50-51. Am. Sociol. Asn; Int. Sociol. Asn. Sociology of mental health and illness; social control; sociology of deviancy; small group analysis; sociology of minorities; medical sociology. Publ: United States Negro identity conflict, Sociol. & Soc. Res, 10/66; The social control role of the police in changing urban communities, Excerpta Criminologica, 66; Adolescent identity crisis in urban Mexican Americans in east Los Angeles, In: Minority group adolescents in the United States, Williams & Wilkins, 68. Address: Psychiatric Institute, University of Maryland, 645 W. Redwood St, Baltimore, Md. 21201.

DERGE, DR. DAVID R, JR, b. Kansas City, Mo, Oct. 10, 28; m. 51; c. 2. POLITICAL SCIENCE. A.B, Missouri, 50; A.M, Northwestern, 51, Metrop. fel, 54, Ph.D, 55. Instr. polit. sci, Missouri, 54-56; asst. prof, INDIANA, 56-60, assoc. prof. GOVT, 60-65, PROF, 65-, ASSOC. DEAN FACULTIES, 67-, grad. sch, 65-67. Soc. Sci. Res. Coun. res. grants, 56, 58; Eagleton-Citizenship Clearing House fel, 60; prin. investr, rural develop. res. proj, CIC-AID, 65-68. U.S.A, 46-48; U.S.N.R, 51- Polit. Sci. Asn. Legislative and political behavior; American and comparative politics. Publ: Metropolitan and outstate delegations, in Illinois and Missouri legislative delegations, Am. Polit. Sci. Rev; Lawyer as decision-maker in the American state legislature, J. Polit; U.S. technical assistance to developing nations, Review, 66. Address: Bryan 135, Indiana University, Bloomington, Ind. 47401.

de RIVERA, DR. JOSEPH H, b. Bremerton, Wash, Aug. 1, 32; m. 54; c. 3. PSYCHOLOGY. B.A, Yale, 53; Ph.D.(psychol), Stanford, 61. Res. psychologist, U.S. Naval Sch. Aviation Med, 54-57; instr. PSYCHOL, Dartmouth Col, 60-63; ASST. PROF, N.Y. UNIV, 63- U.S.N, 54-57, Lt. Psychol. Asn. Conceptualization of interpersonal relations; psychological aspects of foreign policy formation. Publ: Psychological dimension of foreign policy, Merrill, 68. Address: New York University, Sixth Floor, 4 Washington Place, New York, N.Y. 10003.

DERKS, DR. PETER L(YNN), b. Springfield, Ill, June 8, 33; m. 63; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Knox Col, 55; M.A, Harvard, 57; Ph.D. (exp. psychol), Pennsylvania, 60. Teaching fel. exp. psychol, Harvard, 56-57; asst. instr, Pennsylvania, 57-60; asst. prof. PSYCHOL, COL. WILLIAM & MARY, 60-65, ASSOC. PROF, 65- AAAS; Psychonomic Soc. Strategies and organization in information processing by individuals and groups. Publ: The generality of the conditioning axiom in human binary prediction, 62, coauth, Simple strategies in binary prediction by children and adults, 67, J. Exp. Psychol. & Effect of event run structure on prediction of recursive binary sequence, Psychol. Reports, 65. Address: Dept. of Psychology, College of William & Mary, Williamsburg, Va. 23185.

DERNBURG, PROF. THOMAS F, b. Berlin, Germany, Mar. 25, 30; nat. ECONOMICS. B.A, Swarthmore Col, 52; M.A, Yale, 53, Earhardt Found. fel, 54-55, Ph.D, 57. Asst. prof. ECON, Purdue, 57-60; res. assoc, Princeton, 60-61; assoc. prof, OBERLIN COL, 61-65, PROF, 65- Vis. assoc. prof, Michigan, 64; res. prof, Brookings Inst, 64-65; sr. staff economist, Coun. Econ. Adv, 67-68. Econ. Asn. Economic growth; economic dynamics and comparative statics; short run forecasting. Publ: Macro-economics. Address: Dept. of Economics, Oberlin College, Oberlin, Ohio 44074.

DERNER, DR. GORDON F(REDERICK), b. Buffalo, N.Y, Apr. 9, 15; m. 42; c. 1. CLINICAL PSYCHOLOGY. B.S, State Univ. N.Y, 42; M.A, Columbia, 43, Hoadley scholar, 43-44, dean's scholar, 44-45, Ph.D, 50; William Alanson White Inst, 46-50. Res. assoc, Boy Scouts of Am, N.Y, 42-43; consult. psychologist, Columbia Grammar Sch, 43-44; asst, Columbia, 44-46, lectr. psychol. founds, 46-47, instr. psychol. serv, 47-51; assoc. prof. PSYCHOL, ADELPHI, 51-55, PROF, 55-, DIR. INST. ADV. PSYCHOL. STUDIES, 64- Lectr, psychiat. nursing prog, Columbia, 51-62; dir. clin. psychol. training prog, Adelphi, 51-, dir. postdoctoral prog. psychother, 63-; vis. prof, Syracuse, 53; Iowa, 62. Private practice, 44-; psychologist, Grasslands Hosp, Valhalla, 44-46; chief psychologist, Adelphi Ment. Health Center, 51-53, supv. psychologist, 53-59, Adelphi Psychol. Serv, 59- Consult, Lawrence Pub. Schs, N.Y, 54-56; Vet. Admin, 57-; Oakland County Juvenile Court, 57-; Garden City Nursery Sch, 58-61; N.Shore Psychiat. Center, Roslyn, 58-64. Spec. exam, New York City Civil Serv. Cmn, 54-; mem. adv. coun, State Bd. Exam. Psychol, 56-; field selection officer, Peace Corps, 63- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; fel. Soc. Proj. Tech.(treas, 53-58, pres, 58-59); Acad. Psychother; fel. N.Y. Acad. Sci. Publ: Aspects of the psychology of the tuberculous; An interpersonal approach to training in psychotherapy; Training in clinical psychology, In: Handbook of clinical psychology. Address: Institute of Advanced Psychological Studies, Adelphi University, Garden City, N.Y. 11530.

de ROOVER, PROF. RAYMOND, b. Antwerp, Belgium, Aug. 28, 04; nat; m. 36. ECONOMIC HISTORY. L.S.C.F, Inst. Superieur de Commerce, Antwerp, Belgium, 24; M.B.A, Harvard, 38; Ph.D.(econ), Chicago, 43. Instr, Wells Col, 39, asst. prof. econ, 43-45, assoc. prof, 46-54; PROF, Boston Col, 54-61; HIST, BROOKLYN COL, 61- Vis. prof, Oberlin Col, 45-46; Guggenheim fel, Italy, 49-50, 52-53; Soc. Sci. Res. Coun. grant, 51 & travel grant, summer 62; Fulbright res. scholar, Italy, 51-52; Nat. Endowment for Humanities sr. fel, 68-69. Mem, Nat. Screening Cmt. for Belgium & Netherlands for Fulbright grants, 66- Adams prize, Am. Hist. Asn; Haskins gold medal, Mediaeval Acad. Am, 50; Paine prize, Harvard Univ. Press, 66. Mediaeval Acad. Am; Econ. Hist. Asn; Royal Flemish Acad. Sci. History of economic thought; economic and business history. Publ: Money, banking and credit in mediaeval Bruges, Mediaeval Acad. Am, 48; Gresham on foreign exchange, Harvard, 49; Rise and decline of the Medici bank, 1397-1494, Harvard, 63 & Norton, 66. Address: Dept. of History, Brooklyn College, Brooklyn, N.Y. 11210.

DERR, PROF. RAYMOND WILLIAM, b. Osawatomie, Kans, Aug. 22, 05. JOURNALISM, PUBLIC RELATIONS. B.S, Kans. State Teachers Col, Pittsburg, 28; M.A, Kansas, 42; Ph.D, Missouri, 52. Reporter, ed. & advertising, newspapers, Kans. & Okla, 28-31; ed. & pub, S.Haven New Era, Kans, 31-38; promotion dir. & bus. mgr, Sterling Col, 38-40; dir. publicity & instr. jour, Kans. Wesleyan, 40-43; prog. dir, United Serv. Orgns, 43-44; dir. pub. rels, Kansas City Community Fund & War Chest, Mo, 44-46; prof. pub. rels. & dir, McMurry Col, 46-49; instr. JOUR, Missouri, 49-52; asst. prof, BOWLING GREEN STATE, 52-53, assoc. prof, 53-59, PROF, 60- Dir. centennial celebrations, Christian Col, 49-50; Grange League Fed. fel, 56; Peoples Gas Co. Chicago fel, 58. Pub. Rels. Soc. Am. Public relations in industry, management and community relations; communications between employee and management. Publ: Missouri farmers in action; co-auth, Modern journalism, 62 & Principles of advertising, 63, Pitman. Address: 210 S. College Dr, Bowling Green, Ohio 43402.

DERRICK, DR. LUCILLE, Statist, Finance, see 10th ed, Soc. & Behav. Vols.

DERTHICK, PROF. CHARLES HENRY, b. Cleveland, Ohio, Apr. 29, 16; m. 40; c. 2. PSYCHOLOGY. A.B, Mt. Union Col, 38; M.A, Ohio State, 39; Kansas, 46-48; Ed.D, Oregon State, 51. Psychiat. aide, Inst. Living, Conn, 39-40; counseling secy, YMCA, 41-43; asst. prof. PSYCHOL, WILLAMETTE, 48-52, assoc. prof, 52-56, PROF. & HEAD DEPT, 56- U.S.A.A.F, 43-45; U.S.A, 45-46, 2nd Lt. Measurement of ability; clinical testing of personality and intelligence; use of hypnosis in learning situations. Publ: The Oregon academic rating test, West. Psychol. Serv, 65. Address: Dept. of Psychology, Willamette University, Salem, Ore. 97301.

DERTOUZOS, DEAN DEMETRIOS N(ICHOLAS), b. Princeton, N.J, Aug. 2, 23; m. 45; c. 3. ECONOMICS. Litt.B, Rutgers, 48, Ph.D.(econ), 62; M.S, Wisconsin, 49. Res. assoc, inst. mgt. & labor rels, Rutgers, 49-55; staff mediator, N.J. State Bd. Mediation, 55-56; asst. prof. bus. admin, RIDER COL, 59-63, assoc. prof, 63-64, econ, 64-65, prof, 65-67, chmn. dept, 64-67, DEAN SCH. BUS. ADMIN, 67- Consult, off. emergency planning, N.J. State Dept. Defense, summer, 66. Distinguished teaching award, Lindback Found, 63. Econ. Asn; Indus. Rels. Res. Asn. Industrial and labor relations; comparative labor movements; economic theory and history; development of economic thought. Publ: Co-auth, The joint employee rating plan of the P.J. Ritter Company and local 56, Meat & Cannery Workers Union, AFL, Rutgers, 51 & The older worker in industry, J. Geront, 54. Address: School of Business Administration, Rider College, Trenton, N.J. 08602.

DERUGIN, DR. GEORGE, b. Pskov, Russia, Aug. 13, 15; U.S. citizen; m. 43; c. 4. INTERNATIONAL BUSINESS. M.A, Berlin, 39, Dr.(econ. sci), 42. Asst. econ. sci, Univ. Berlin & Inst. Econ. Sci, 40-45; asst. prof, UNRRA, Munich, 46-48; econ. & legal adv, various insts, Germany, 45-55; asst. prof. econ. & bus, Southern Calif, 56-65; ASSOC. PROF. WORLD BUS, CENTER WORLD BUS, SAN FRANCISCO STATE COL, 66- Econ. Asn. Soviet economy, particularly trade problems in East Europe; multinational business operations. Publ: Soviet domestic trade. 62 & Soviet monetary system. 62, McGraw; The Moscow council of mutual economic assistance, 65. Address: San Francisco State College School of Business, San Francisco, Calif. 94132.

de RYCKE, PROF. LAURENCE J(OSEPH), b. Mishawaka, Ind, Mar. 14, 07. ECONOMICS. B.B.A, Oregon, 29, M.B.A, 31; Ph.D, California, 45. Instr, Pomona Col, 31-33, 42; chief west. European sect, div. trade agreements & secy. inter-dept. cmt. trade agreements, U.S. Dept. State, 35-40; PROF. ECON. & CHMN. DEPT, OCCIDENTAL COL, 42- Asst. dir, bus. ed. div, Cmt. Econ. Develop, 53-54; econ. specialist, int. ed, exchange serv, India, 59. Consult, Rockefeller Found, Cali, Colombia, 64-65. Econ. Asn. International economics; economic education. Publ: Beginning readings in economics; Business enterprise in the American economy. Address: Dept. of Economics, Occidental College, Los Angeles, Calif. 90041.

DESAI, DR. SURESHCHANDRA AMBELAL, b. Ambheta, India, Oct. 29, 33; m. 60; c. 1. ECONOMICS, HISTORY. B.A, Gujarat Univ, India, 54, M.A, 56, LL.B, 57, Ph.D.(econ), 60; M.A, California, Los Angeles, 63, Ph.D. (econ), 68. Lectr. econ, M.T.B. Arts Col, Surat, India, 56-60, asst. prof, 60-62; teaching fel, California, Los Angeles, 63-65 & 66-67; Am. Inst. Indian Studies jr. res. fel, Pennsylvania, 65-66; ASSOC. PROF. ECON, HANOVER COL, 67- Public finance and economic development; Indian economic policy; federal grants system; economic consequences of federalism. Publ: Co-auth, Indian economic problems (in Gujarati), Vols. I-III, 7th ed, 66, Theory of money (in Gujarati), 66 & Theory of value (in Gujarati), 2nd ed, 67, Popular Pub. House, India. Address: Dept. of Economics, Hanover College, Hanover, Ind. 47243.

de SCHWEINITZ, PROF. KARL, b. Northfield, Minn, Nov. 26, 87; m. 11, 37; c. 2. SOCIAL WORK. B.A, Moravian Col, 06, hon. L.H.D, 32; B.A, Pennsylvania, 07. Newspaper work, 07-11; secy, Pa. Tuberc. Soc, 11-13; mem. exec. staff, Charity Orgn. Soc, N.Y, 13-18; gen. secy, Family Soc, Phila, 18-30; secy, Phila. Cmt. Unemploy. Relief, 30-32; dir. sch. soc. work, Pennsylvania, 33-36, 38-42, prof. soc. admin, 38-42; training consult, U.S. Soc. Security Bd, 42-44; dir. cmt. ed. & soc. security, Am. Coun. Ed, 44-50; prof. SOC. WELFARE, CALIFORNIA, LOS ANGELES, 51-58, EMER. PROF, 58- Adminstr, Relief & Pub. Asst, Pa, 36-38; Fulbright scholar, London Sch. Econ, 56-57; mem. bd. overseas seers, sch. soc. welfare, Brandeis, 59- Consult, Egyptian Ministry Soc. Affairs, 51; UN consult, Arab States, Damascus, 52; consult, Ministry Health & Welfare, Venezuela, 58. Co-recipient, Florina Lasker award, 62. Asn. Soc. Workers. History of social welfare, social security and relief of want. Publ: Co-auth, Interviewing in the social services, Nat. Inst. Soc. Work Training, London, 62; auth, Growing up, Macmillan, 4th ed, 65, Macmillan; England's road to social security. Address: 3219 Volta Place N.W, Washington, D.C. 20007.

de SCHWEINITZ, PROF. KARL, JR, b. Philadelphia, Pa, Mar. 16, 20; m. 45; c. 3. ECONOMICS. A.B, Dartmouth Col, 41; Ph.D, Yale, 49. Instr, Yale, 47-49; asst. prof. econ, NORTHWESTERN, 49-55, assoc. prof, 55-63, PROF, 63-67, ECON. & LAW, 67- Ford Fund Adv. Ed. fel, 52-53; Carnegie fel, 63-64. Econ. Asn; Polit. Sci. Asn; Asn. Comp. Econ. Comparative economic systems; socialist economic theory. Publ: Industrialization and democracy, Free Press Glencoe, 64; Free enterprise in a growth world,

South. Econ. J, 10/62; Economics and the underdeveloped economies, Am. Behav. Scientist, 9/65. Address: Dept. of Economics, Kresge Center Hall, Northwestern University, Evanston, Ill. 60201.

DeSHAZO, PROF. ELMER ANTHONY, b. Winters, Tex, June 22, 24; m. 58; c. 1. POLITICAL SCIENCE, ECONOMICS. B.B.A, Tex. Tech. Col, 53, fel, 53-54, M.A, 54; Ph.D.(int. polit), Indiana, 57. Asst, Indiana, 54-57; instr. GOVT, SOUTHWEST TEX. STATE COL, 57-58, asst. prof, 58-63, ASSOC. PROF, 63-67, PROF, 67- Lectr, U.S. Naval Reserve Intel. Unit, 57- Consult, Community Rels. Serv, San Marcos, Tex, 63- U.S.C.G.R, 42-46; U.S.N.R, 47-, Lt. Comdr. Polit. Sci. Asn. Geography; peaceful settlement of disputes through international organization; economic development of underdeveloped countries. Publ: Peaceful settlement of disputes in the Inter-American system since World War II; An equal opportunities committee at work in Texas, Soc. Sci, 4/66; The inter-American peace committee: origin, development, and activities, Southwest Tex. State Col. Monogr. Series, 4/68. Address: P.O. Box 1245, San Marcos, Tex. 78666.

DESHLER, PROF. WALTER W, b. Phillipsburgh, N.J, Mar. 21, 21; m. 44; c. 4. GEOGRAPHY. B.S, Lafayette Col, 43; Oxford, 50-51; Fulbright fel, East Africa, 52-54; M.A, Maryland, 53, Ph.D, 57. Instr. GEOG, MARYLAND, 55-57, asst. prof, 57-61, assoc. prof, 61-67, PROF, 67- Vis. lectr, Univ. Virginia Center, 60; Soc. Sci. Res. Coun. fel. field work, E. & Cent. Africa, 63-64. Consult, for. serv. inst, U.S. Dept. State, 60-; int. off, Nat. Acad. Sci, 61-, mem. for. field res. prog. screening cmt, div. earth sci, 65-; consult. Off. of Geogr, U.S. Dept. Interior, 66- Mem. joint cmt. African studies, Am. Coun. Learned Socs-Social Sci. Res. Coun, 66- U.S.N.R, 43-46, Lt. Asn. Am. Geog; African Studies Asn; Royal Geog. Soc. Indigenous land use in semi-arid regions of Eastern Africa; culture difference as read in man's marks on the landscape; use of satellite obtained data for sensing and analysis of earth resources and cultural features. Publ: Livestock trypanosomiasis and human settlement: some relationships observed in northeastern Uganda, Geog. Rev; Cattle in Africa: distribution, types, and problems, Geog. Rev, 63; Native cattle keeping in eastern Africa, In: Man, culture and animals, AAAS, 65. Address: Dept. of Geography, University of Maryland, College Park, Md. 20740.

DESHON, DR. SHIRLEY K(ILBORN) (MRS. HENRY E. CARRÉ), b. Rochester, N.Y, Oct. 31, 24. ANTHROPOLOGY. B.A, Smith Col, 46; Arizona, 52-54; Ph.D, Yale, 59. Instr. sociol. & anthrop, Maryland, 59-61; Nat. Inst. Ment. Health fel, Gt. Brit, 61-62; asst. prof, St. Lawrence, 62-63. For. fel. Anthrop. Asn. Middle American and African ethnology; western European insular community; culture change and social structure; kinship, stratification and mobility in intermediate societies. Publ: Compadrazgo on a Henegian hacienda in Yucatan: a structural re-evaluation, Am. Anthropologist, 6/63. Address: La Joie, Sark, Channel Islands, Gt. Brit.

DESIDERATO, DR. OTELLO L(OUIS), b. Buia, Italy, Sept. 18, 26; nat; m. 54; c. 2. PSYCHOLOGY. A.B, Columbia, 49; M.A, N.Y. Univ, 51, Ph.D, 53. Res. assoc, HumRRO, 54-54; asst. prof. PSYCHOL, Adelphi Col, 55-60; PROF. & CHMN. DEPT, CONN. COL, 60- Sig.C, U.S.A, 54-55. AAAS; Psychol. Asn. Experimental psychology; learning theory. Publ: Incubation of anxiety: effect on temporal generalization, Psychonomic Sci, 66; Changes in fear generalization gradients as a function of delayed testing, 66 & Incubation of anxiety: effect on generalization gradients, 67, J. Exp. Psychol. Address: Dept. of Psychology, Connecticut College, New London, Conn. 06320.

DeSILVA, DR. HARRY R(EGINALD), b. Pensacola, Fla, June 8, 98; m. 25; c. 2. INDUSTRIAL PSYCHOLOGY. A.B, Florida, 20; A.M, Harvard, 22, Nat. Res. Coun. & Rockefeller Found. fels, 25-26, Ph.D.(psychol), 27; Berlin, 25; Nat. Res. Coun. & Rockefeller Found. fels, Cambridge, 27-28, D.Phil.(psychol), 28. Lectr. psychol, McGill, 22-24; assoc. prof, Kansas, 28-32; prof, Mass. State Col, 32-36; lectr, Harvard, 37-39; assoc. prof, Yale, 39-42; chief res. & planning sect, Off. Price Admin, 42; chief distribution sect, War Prod. Bd, 43-44, scheduling officer, 44-46; asst. dir, plants div, Surplus Property & War Assets Admin, 46-47; asst. mgr. prod. equip. br, Off. Asst. Secy. Defense, 48-60, indust. engr, Off. Secy. Defense, 60-63; RETIRED. U.S.A, 18-19. Soc. Adv. Mgt. Visual movement; night blindness; auto driving skill. Address: 2786 S.E. 14th St, Pompano Beach, Fla. 33062.

DESMOND, SISTER ELLEN MARY, S.C, b. Dunkirk, N.Y, May 22, 29. SOCIOLOGY. A.B, Col. St. Elizabeth, 50; M.A, Catholic Univ. 55, Ph.D.(sociol), 62. Instr. SOCIOL, COL. ST. ELIZABETH, 55-59, asst. prof, 59-67, ASSOC. PROF, 67-, asst. dean women, 64, dean, 64-67. Sociol. Asn. Social problems; marriage and the family; population. Publ: Mortality of the Brandywine population of southern Maryland, Catholic Univ, 62. Address: Dept. of Sociology, College of St. Elizabeth, Convent Station, N.J. 07961.

DESMOND, GERALD R(AYMOND), O.S.B, b. Ellensburg, Wash, Sept. 6, 04. SOCIOLOGY & ANTHROPOLOGY. M.A, Catholic Univ, 31, Ph.D.(anthrop), 46. PROF. SOCIOL. & ANTHROP. & HEAD DEPT, ST. MARTIN'S COL, 30-, dean col, 35-49. Abbot, St. Martin's Abbey, 64- Fel. Anthrop. Asn. Address: Dept. of Sociology & Cultural Anthropology, St. Martin's College, Olympia, Wash. 98501.

DeSOTO, DR. CLINTON BURGEL, b. Hartford, Conn, Jan. 13, 31; m. 56; c. 2. PSYCHOLOGY. B.A, Wisconsin, 52, M.A, 53, Ph.D, 56. Instr. PSYCHOL, HOPKINS, 56-57, asst. prof, 57-61, ASSOC. PROF, 61- AAAS; Psychol. Asn; Psychonomic Soc. Social cognition; thinking; learning. Address: Dept. of Psychology, Johns Hopkins University, Baltimore, Md. 21218.

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DESPRES, PROF. EMILE, b. Chicago, Ill, Sept. 21, 09. ECONOMICS. B.S, Harvard, 30. Spec. for. exchange analyst, Fed. Reserve Bank, New York, 30-37, chief for. res. div, 38-39; sr. economist, Fed. Reserve Bd, 39-41; mem. bd. analysts, Off. Strategic Servs, 41-44; adv. German econ. affairs, U.S. Dept. State, 44-45; from prof. to Brough prof. econ. & chmn. dept, Williams Col.(Mass), 46-61, David O. Wells prof. polit. econ. & chmn. dept, 61; PROF. ECON, STANFORD, 61- Vis. res. scholar, Carnegie Endowment Int. Peace, 59-60; Ford Found. faculty res. professorship, 64-65. Dir, Pakistan Inst. Develop. Econ, 59 & 64; mem. res. adv. cmt, Cmt. Econ. Develop, 60-64; econ. adv. cmt, Agency, Int. Develop, 61- Am. Econ. Asn; Royal Econ. Soc. International monetary reform. Publ: Co-auth, The United States balance of payments in 1968, Brookings Inst, 63. Address: Dept. of Economics, Stanford University, Stanford, Calif. 94305.

DESPRES, DR. LEO ARTHUR, b. Lebanon, N.H, Mar. 29, 32; m. 53; c. 4. ANTHROPOLOGY, SOCIOLOGY. B.A, Notre Dame, 54, fel, 54-56, M.A, 56; fel. & Ph.D.(anthrop), Ohio State, 60. Asst. res. assoc, Columbus Psychiat. Inst. & Hosp, 57-60; asst. prof. ANTHROP, Ohio Wesleyan, 61-63; ASSOC. PROF, CASE WESTERN RESERVE, 63- Soc. Sci. Res. Coun. res. fel, Brit. Guiana, 60-61. Assoc. res. consult, Columbus Psychiat. Inst. & Hosp, 61-; consult, Ed. Res. Coun. of Greater Cleveland, 65- Anthrop. Asn; Ethnol. Soc; Sociol. Asn; African Studies Asn. Community culture and power structure in the United States; race, culture and politics in British Guiana; African and Caribbean ethnology and political anthropology. Publ: Cultural pluralism and nationalist politics in British Guiana, Rand McNally, 67; The implications of nationalist politics in British Guiana for the development of cultural theory, Am. Anthropologist, 64; Anthropological theory, cultural pluralism, and the study of complex societies, Current Anthrop, 68. Address: Dept. of Anthropology, Case Western Reserve University, Cleveland, Ohio 44106.

DESU, DR. MANAVALA MAHAMUNULU, Statist, see Suppl. V to 11th ed, Phys. & Biol. Vols.

DE SYLVESTER, CORRADO, b. Italy, July 4, 04; nat; m. 45. SOCIOLOGY, BUSINESS ADMINISTRATION. B.S, Ill. Inst. Tech, 33; M.A, Chicago, 42. Staff engr. mgt, Assoc. Indust. Engrs, 43; mgt. engr, qm. depot, U.S. Dept. Army, 44; U.S, spec. agent, currency protection unit, Off. Price Admin, 45; staff orgn. & method field supvr, Vet. Admin, 46-49; ORGN. & METHOD OFFICER, U.S. DEPT. NAVY, 50- Consult, Am. Inst. Criminal Law & Criminol, 30-33; U.S. Probn. & Parole Off, 33-34; sales & mkt. consult, Corise Cosmetic Prods, 53- U.S.A, 42. AAAS; Sociol. Asn; Statist. Asn; Inst. Mgt. Business management; statistics. Address: 5240 W. Congress Pkwy, Chicago, Ill. 60644.

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DE TARR, DR. FRANCIS, b. Berkeley, Calif, Mar. 15, 26; m. 51; c. 4. POLITICAL SCIENCE. B.A, Yale, 49, M.A, 53, Ph.D.(polit. sci), 58; Sorbonne, 49-51. Teacher, Lycee Pavl Longevin, Suresnes, France, 49-50; instr. Am. civilization, Sorbonne, 50-51; v.consul, Am. Consulate, Florence, 58-60; prin. analyst Algeria, U.S. Dept. State, 60-61; sec. secy. & polit. officer, Am. Embassy, Paris, 61-66; AM. EMBASSY, SAIGON, 66-68, FIRST SECY. & POLIT. OFFICER, 68- Consult, For. Policy Asn, N.Y, 53-54. Porter prize, Yale, 58. Polit. Sci. Asn; Int. Polit. Sci. Asn. French politics and history; comparative government. Publ: The French radical party from Herriot to Mendès—France, Oxford Univ, 61. Address: Dept. of State, Washington, D.C. 20521.

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DETERLINE, DR. WILLIAM ALEXANDER, b. Palmerton, Pa, Dec. 2, 27. PSYCHOLOGY. B.S, Pittsburgh, 53, M.S, 55, Ph.D, 58. Instr. psychol, Pittsburgh, 55-57; asst. prof, Alma Col, 57-60; res. scientist, Am. Inst. Res, 60-63; assoc. prof. psychol, Trinity (Tex), 63-65; PRES, GEN. PROGRAMMED TEACHING, COMMERCE CLEARING HOUSE, 64- Mem. bd. dirs, Ed. Media Coun, 64- U.S.A, 45-47, 50-52, 1st Lt. AAAS; Psychol. Asn; Ed. Res. Asn; Adult Ed. Asn; Soc. Training & Develop. Psychological learning theory; theoretical and applied studies of learning; instructional technology and individualized instruction. Publ: An introduction to programed instruction; Teaching, technology and educational psychology, Harper, 68; Practical problems in program production, Nat. Soc. Study Ed. Yearbook, 67. Address: 1990 Scott Lane, Los Altos, Calif. 94022.

DETLEFSEN, GUY-ROBERT, b. Chicago, Ill, May 3, 19; m. 41; c. 3. ECONOMICS. B.A, Harvard, 41. Clerk & analyst, Bethlehem Steel Co, Mass, 41, admin. asst, shipbldg. div, Calif, 42-44; res. technician, Pillsbury Mills, Inc, 45-50, dir. commercial res. dept, 50-52, commercial res. & develop, 52-58, v.pres. growth & tech, 58-66, V.PRES. COMMERCIAL DEVELOP. DIV, PILLSBURY CO, 66- Dir. res. cmt, Nat. Indust. Conf. Bd. Econ. Asn; Econom. Soc; Opers. Res. Soc. Technical, operations and market research; management science. Publ: Economic concentration: extent and dangers, In: Economic concentration: uses and abuses; From the conception of a product to its birth and growth, In: Flavor research and food acceptance, Reinhold, 58; Theory into practice, In: Models, measurements and marketing, Prentice-Hall, 65. Address: Route 3, Box 313, Excelsior, Minn. 55331.

DETRE, DR. THOMAS PAUL, Psychiat, see 11th ed, Phys. & Biol. Vols.

DETTMANN, PROF. JOHN A(LBERT), b. Random Lake, Wis, July 11, 19; m. 43; c. 4. BUSINESS ADMINISTRATION. B.Ed, Wisconsin State Col, Whitewater, 40; M.S, Wisconsin, 46, Ph.D.(bus. ed), 55. Instr. bus. & econ, Minnesota, Duluth, 48-52, asst. prof, 52-55, assoc. prof, 55-57; adv. pub. admin, Univ. Minnesota-Korean Coop. Proj, Seoul, 59-60; PROF. acct, sch. bus. admin, Minnesota, Minneapolis, 62-63; BUS. & ECON, MINNESOTA, DULUTH, 63- Publ: Make your bookkeeping course more practical, United Bus. Ed. Asn. Forum, 1/54; Business education in Korea, Nat. Bus. Ed. Quart, 3/61; Try multiple practice sets, Bus. Ed. Forum, 5/62. Address: Dept. of Business Administration, University of Minnesota, Duluth, Minn. 55812.

DETWYLER, DR. THOMAS R(OBERT), Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

DEUEL, DR. THORNE, b. Millbrook, N.Y, Dec. 15, 90; m. 24; c. 2. ANTHROPOLOGY. B.S, U.S. Mil. Acad, 12; Ph.D.(anthrop), Chicago, 35. Instr. sociol, Syracuse, 28-29, asst. prof, 29-33; asst. anthrop, Chicago, 31-34, res. assoc, 34-38; dir, ILL. STATE MUS, 38-63, res. scientist, 63-65, RES. ASSOC. & DIR. EMER, 65- Asst. ed, Am. Antiquity, 35-39. With archaeol. expeds, cent. N.Y, Ind. & Ill, 28-38. Mem. mus. prog. panel, Nat. Endowment Humanities, Nat. Found. Arts & Humanities, 67- U.S.A, 12-19, Sig. C, U.S.A.A.F, 17-19, 42-45, Lt. Col. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol.(secy-treas, 40-42); N.Y. Acad. Sci. Archaeology of North America, especially reconstruction of the cultures of aboriginal peoples; evolution of culture; education; comparison of cultures. Publ: Man's venture in culture & American Indian ways of life, Ill. State Mus; co-auth, Rediscovering Illinois, Univ. Chicago. Address: Illinois State Museum, Springfield, Ill. 62706.

DEUPREE, DR. ROBERT H, b. Memphis, Tenn, Apr. 13, 33; m. 63; c. 1. BIOMETRY, EXPERIMENTAL PSYCHOLOGY. B.A, Southwestern at Memphis, 55; M.A, Iowa, 62, Ph.D.(exp. psychol), 66. Instr. BIOMET, MED. CENTER, LA. STATE, 62-65, ASST. PROF, 65- U.S.N, 55-58, Lt.(jg). Statist. Asn. Design and analysis of experiments; human engineering; reliability studies; mathematical models; computer applications; clinical trials research. Publ: Co-auth, Reaction time and movement time as a function of age, stimulus duration, and task difficulty, Ergonomics, 6: 403-411, Accuracy and precision of hemoglobin measurements, Am. J. Clin. Path, 44: 203-206 & Diet and serum cholesterol levels in baboons, Exp. & Molecular Path, 5: 82-91. Address: Louisiana State University Medical Center, 1542 Tulane Ave, New Orleans, La. 70112.

DEUTCH, DR. MICHAEL JOSEPH, Chem. & Elec. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

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DEUTSCH, PROF. KARL W(OLFGANG), b. Prague, Czech, July 21, 12; nat; m. 36; c. 2. POLITICAL SCIENCE. Dr. Polit. Sci, Charles Univ, Prague, 38; Ph.D, Harvard, 51. From instr. to prof, Mass. Inst. Tech, 42-52, PROF. hist. & polit. sci, 52-58; polit. sci. Yale, 58-67; GOVT, HARVARD, 67- Assoc. univ. seminar, Columbia, 50-; vis. prof, Princeton, 53; Chicago, 54; Yale, 57; Heidelberg, 60; Harvard, 61; Guggenheim fel, 54; lectr, Fletcher Sch. Law & Diplomacy, 55-60; fel, Center for Adv. Studies Behav. Sci, 56-57; vis. fel, Nuffield Col. Oxford, 62. Chief res. sect, Off. Strategic Serv. & U.S. Dept. State, 44-46; Am. specialist, India & Germany, U.S. Dept. State, 63, 67; Poland, 67. Mem. inter-univ. res. seminar comp. polit, Soc. Sci. Res. Coun, 52. Cert. merit, Off. Strategic Serv, 45; Benton award, Yale Polit. Union, 61. Fel. Am. Acad. Arts & Sci; Polit. Sci. Asn; Hist. Asn; Econ. Hist. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Int. Polit. Sci. Asn. Nationalism; political theory; comparative politics. Publ: Nationalism and social communication, M.I.T. Press, rev. ed, 66; Nerves of government, Macmillan, rev. ed, 66; Arms control and the Atlantic Alliance, Wiley, 67. Address: 25 Lakeview Ave, Cambridge, Mass. 02138.

DEUTSCH, PROF. MARTIN, b. New York, N.Y, June 25, 23; m. 48. PSYCHOLOGY. B.A, Columbia, 43, M.A, 47; Ph.D, 51; U.S. Pub. Health Serv. fel, Ill. Neuropsychiat. Inst, 48-49; Chicago, 49-50. Instr. psychol, Brooklyn Col, 46-47; Missouri, 47-48; chief psychologist, Bridgeport Soc. Ment. Hyg, 50-51; res. dir, community serv. div, City Col. New York, 51-54; chief psychologist, Harriet Tubman Center Child Develop, 54-55; dir. Res. Inst. Family Rel, N.Y, 55-56; co-dir. ment. health res. center, State Univ. N.Y, 58-60; assoc. prof. psychiat, N.Y. Med. Col, 60-62, PROF, 62-66; ED, N.Y. UNIV, 66-, DIR. INST. DEVELOP. STUDIES, 60- Res. consult, Vis. Nurse Serv, N.Y, 55-58; consult, Anti-Defamation League, 56-; All-Day Neighborhood Sch. Prog. New York, 59-; spec. consult, great cities prog, Ford Found, 60-; consult, task force ed, White House Conf. Fulfill These Rights, 66; survey Milwaukee, Wis. sch. syst, Acad. Ed. Develop, 66-67; Civil Rights Cmn. Ed. Conf, 67; Joint Cmn. Ment. Health Children, 67- U.S.N, 43-45. AAAS; fel. Psychol. Asn; Orthopsychiat. Asn; Pub. Health Asn. Developmental-social psychology, especially the effects of cultural factors such as class status on learning, cognition, personality and inter-group relation and attitude formation. Publ: The disadvantaged child, Basic Books, 67; Minority group and class status as related to social and personality factors in scholastic achievement, Soc. Appl. Anthrop. Monogr; 1960 swastika-smearings; analysis of the apprehended youth, Merrill-Palmer Quart. Behav. & Develop. Address: 465 West End Ave, New York, N.Y. 10024.

DEUTSCH, PROF. MORTON, b. New York, N.Y, Feb. 4, 20; m. 47; c. 2. PSYCHOLOGY. B.S, City Col. New York, 39; M.A, Pennsylvania, 40; Ph.D.(soc. psychol), Mass. Inst. Tech, 48. Psychol. intern, Letchworth Village, Rockland State Hosp. & N.Y. State Training Sch, 40-41; instr. psychol, City Col. New York, 45; res. asst, res. center for group dynamics, Mass. Inst. Tech, 45-48; asst. prof. human rels, res. center human rels, New Sch. Soc. Res, 48-49; assoc. prof. psychol, N.Y. UNIV, 49-56, PSYCHOTHERAPIST, POSTGRAD. CENTER FOR PSYCHOTHER, 54-; PROF. PSYCHOL, TEACHERS COL, COLUMBIA, 63- Res. psychologist, Bell Tel. Labs, 56-63; private practice, consult, Nat. Inst. Ment. Health, 65- Socio-psychol prize, Am. Asn. Adv. Sci, 61; Hovland mem. award, 67; Lewin mem. award, 68. U.S.A.A.F, 42-45. Psychol. Asn; Sociol. Asn. Small group functioning; interpersonal relations; conflict resolution. Publ: Co-auth, Interracial housing & Research methods in social relations; co-auth, Theories in social psychology, Basic Books, 65. Address: Dept. of Psychology, Teachers College, Columbia University, New York, N.Y. 10027.

DEUTSCH, DR. STANLEY, Eng. & Indust. Psychol, see Suppl. II & IV to 11th ed, Phys. & Biol. Vols.

DEUTSCHER, PROF. IRWIN, b. New York, N.Y, Dec. 24, 23; m. 50; c. 2. SOCIOLOGY. A.B, Missouri, 49, M.S. & M.A, 53, Soc. Sci. Res. Coun. fel, 53-54, Ph.D.(sociol), 59. Instr. sociol. & anthrop, Missouri, 50-53; proj. dir. metrop. nurse studies, Community Studies, Inc, 54-58, dir. res, 58-60; consult, Youth Develop. Center, 59-60, dir. res, 60-62, assoc. prof. sociol, Syracuse, 60-64, dir, Center, 62-65, PROF. SOCIOL, 64-68; CASE WESTERN RESERVE, 68- Nat. Sci. Found. sr. fel, 65-66; Nat. Inst. Ment. Health spec. fel, 66-67. Consult, Cherokee Indian Proj, Univ. Kansas, 66-; Nat. Surv. Recruiting & Ed. Male Nurses, St. Lawrence Univ, 66- Mem. delinquency grants rev. cmt, Nat. Inst. Ment. Health, 63-66. Fel. Sociol. Asn; Soc. Study Social Probs.(pres, 64-65); fel. Soc. Appl. Anthrop. Theoretical and methodological problems in the relationship between attitudes and behavior and their applications to the evaluation of planned interventions in social processes. Publ: Co-auth, Twenty thousand nurses tell their story, Lippincott, 58 & Among the people: encounters with the poor, Basic Books, 68; auth, Words and deeds; social science and social policy, Soc. Probs, winter, 66. Address: Dept. of Sociology, Case Western Reserve University, Cleveland, Ohio 44106.

DEUTSCHMANN, DR. PAUL J, Mass Commun, see 10th ed, Soc. & Behav. Vols, deceased 64.

DE VALOIS, PROF. RUSSELL L(EE), b. Ames, Iowa, Dec. 15, 26; m. 51; c. 3. PSYCHOLOGY. A.B, Oberlin Col, 47, M.A, 48; Ph.D.(psychol), Michigan, 52. Instr. PSYCHOL, Michigan, 50-51, res. assoc, 51-53, 54-59; assoc. prof, INDIANA, 59-64, PROF, 64- Fulbright res. grant, Freiburg, 53-54; Nat. Sci. Found. fel, Inst. Perception, Netherlands, 65-66. U.S.N, 44-45. AAAS; Psychol. Asn. Physiological mechanisms of vision; sensory coding. Publ: Analysis and coding of color vision, Cold Spring Harbor Symp, 65; Response patterns of LGN cells, J. Optical Soc. Am, 66; Analysis of wavelength by LGN cells, J. Neurophysiol, 67. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

DeVEAU, PROF. BURTON WILLIAM, b. Corona, N.Y, Oct. 25, 23; m. 43; c. 2. AGRICULTURAL ECONOMICS. B.S, Iowa State, 47; M.S, Cornell, 48; Ph.D. (ed), Minnesota, 57. Instr. agr. econ, sch. agr, Vermont, 49-50; PROF. agr, OHIO, 50-64, ECON, 64- U.S.A.F, 43-45, 1st Lt. Economic principles; agricultural policy; agricultural development. Publ: The role of agricultural research in NACTA colleges, 11/61, A study of the future functions of the southeast Ohio regional council, 3/63 & Utilizing the case study technique in teaching farm management, 9/65, J. NACTA. Address: Dept. of Economics, Ohio University, Athens, Ohio 45701.

DEVENING, DR. JEAN M(cQUEEN), b. Can, Oct. 22, 11; U.S. citizen; m; c. 1. PSYCHOLOGY. B.A, Mills Col, 31; M.A, Wisconsin, 32; Ph.D, Yale, 37. Lectr. psychol, Scripps Col. & Claremont Col, 37-39; dir, Jr. Counseling Serv, Oakland, Calif, 39-41; chief psychologist, San Francisco Juvenile Court, 41-43; lectr. psychol, Occidental Col, 45-47; California, Los Angeles, 48-49; assoc. prof, Hawaii, 49-51; CONSULT. PSYCHOLOGIST, 51- Psychologist, Territorial Bur. Ment. Hyg, Hawaii, 49-51. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. AAAS; fel. Psychol. Asn; World Fedn. Ment. Health. Clinical psychology; preventive applications of child psychology; dynamics of international conflict. Publ: Bergson and Gestalt psychology & Some crucial aspects of the problem of sex differences, Psychol. Bull. Address: 2254 Mountain Oak Dr, Los Angeles, Calif. 90028.

DEVEREUX, PROF. EDWARD C(LIFTON), JR, b. Great Neck, N.Y, Sept. 14, 12; m. 42; c. 2. SOCIOLOGY. M.A, Harvard, 38, Ph.D.(sociol), 50. Asst. sociol, Harvard, 36-40; instr, Toronto, 40-42; asst. prof, Princeton, 45-49; res. assoc. bur. appl. soc. res, Columbia, 49-50; PROF. CHILD DEVELOP. & FAMILY RELS, CORNELL, 50-, CHMN. DEPT, 66- Fulbright res. scholar, Frankfort, 56-57. Burgess award, 60. U.S.N.R, 42-45, Lt. Sociol. Asn; Nat. Coun. Family Rels. Family relationships; sociological theory; research methodology. Address: Dept. of Child Development & Family Relationships, Cornell University, Ithaca, N.Y. 14850.

DEVEREUX, PROF. GEORGE, b. Lugos, Hungary, Sept. 13, 08; nat. ANTHROPOLOGY. Dipl, Paris, 31, lic. ès lettres, 32; Ph.D.(anthrop), California, 35; Topeka Inst. Psychoanal, 52. Field ethnologist, Cmt. Study Suicide, N.Y, 36; Crane fel. psychiat. anthrop, 38-39; sociologist, Worcester State Hosp, 39-40; asst. prof. sociol. & anthrop, Middlesex, 40-41; instr, Wyoming, 41-43; vis. lectr. anthrop, Columbia, 44; res. assoc, Viking Fund, N.Y, 45; U.S. State Dept. vis. prof. sociol. of ed, Haiti, 45; res. assoc, Nat. Center Sci. Res, France, 46; dir. res. & ethnologist, Winter Vet. Admin. Hosp, Topeka, Kans, 46-54; dir. res, Devereux Found. & Schs, 54-56; from assoc. prof. to PROF. RES. IN ETHNOPSYCHIAT, SCH. MED, TEMPLE, 56- Res. fel, Harvard, 39-40; mem. faculty, Menninger Sch. Psychiat, 46-54; lectr, Topeka Inst. Psychoanal, 46-54; lectr, Columbia, 60-; traveling fel, French Ministry Pub. Ed; hon. traveling fel, French Mus. Natural Hist; Rockefeller fel; grant, Soc. Sci. Res. Coun; Soc. Invest. Human Ecol; Nat. Inst. Ment. Health. Mem. expeds, Hopi, Mohave, Yuma, Cocopa, Papua & Indochina. U.S.N.R, 43-44, Lt.(jg). Fel. Anthrop. Asn; Ethnol. Soc; Acad. Psychother. Culture and personality; ethnopsychiatry; psychoanalysis; Yumans; Southeast Asia. Publ: Reality and dream psychotherapy of a Plains Indian, 51 & Therapeutic education, 56, New York; Mohave ethnopsychiatry and suicide, Bur. Am. Ethnol, Washington, 61. Address: Dept. of Psychiatry, Temple University School of Medicine, Broad & Ontario St, Philadelphia, Pa. 19140.

DEVINE, DR. DONALD J, b. Bronxville, N.Y. Apr. 14, 37; m. 57; c. 3. POLITICAL SCIENCE. B.B.A, St. John's, 59; M.A, Brooklyn Col, 65; Ph.D. (polit. sci), Syracuse, 67. ASST. PROF. POLIT. SCI, MARYLAND, 67-U.S.A.R, 60-66. Polit. Sci. Asn; Asn. Pub. Opinion Res. American politics and parties; empirical and scientific theory; behavioral and statistical methods. Address: 12336 Centerhill St, Wheaton, Md. 20902.

DEVINE, PROF. JAMES V(INCENT), b. Mason City, Wash, Feb. 28, 36; m. 55; c. 2. PSYCHOLOGY. B.S, New Mexico, 60, M.S, 62; Nat. Insts. Health trainee, Kansas State, 64-67. Dir. programmed instr, Gen. Programmed Teaching Corp, N.Mex, 61-62; supvr. programmed instr, Teaching Mach, Inc, 62-64; instr. psychol, Kansas State, summer, 67; ASST. PROF. EXP. PSYCHOL, TEXAS, EL PASO, 67- Combined proj. grant, 6571st Aeromed. Res. Lab, Holloman Air Force Base, N.Mex, & res. inst, Univ. Texas, El Paso, 68. U.S.A, 54-56. Animal Behav. Soc. Cortical control of handedness; stimulus predifferentiation; chimpanzee and human concept learning; primate learning and behavior; programmed instruction and early learning. Publ: Co-auth, Transfers in handedness in the rat resulting from small cortical lesions after limited forced practice, J. Comp. Physiol. Psychol, 63, Chimpanzee performance on a problem involving the concept of middleness, Animal Behav, 66 & Effects of composition of the positive category on concept learning, J. Exp. Psychol, 67. Address: Dept. of Psychology, University of Texas at El Paso, El Paso, Tex. 79999.

DeVINNEY, DR. LELAND C, b. U.S, May 14, 06; m. 36. SOCIOLOGY. B.A, Albion Col, 31; M.A, Wisconsin, 33; Henderson fel. & Ph.D.(sociol), Chicago, 41. Assoc. prof. sociol, Wisconsin, 41-43; assoc. dir. lab. soc. rels. & lectr. sociol, Harvard, 46-48; asst. dir. SOC. SCI, ROCKEFELLER FOUND, 48-50, ASSOC. DIR, 50- Consult. sociologist, 49-55. U.S.A, 43-46, Lt. Col. AAAS; Sociol. Asn; Pop. Asn. Social psychology; population; public opinion and attitude. Publ: Co-auth, American soldier. Address: 120 Cabrini Blvd, New York, N.Y. 10033.

DEVINO, DR. GARY T(HOMAS), b. Middlebury, Vt, Nov. 9, 37; m. 59; c. 4. AGRICULTURAL ECONOMICS, BUSINESS ADMINISTRATION. B.S, Cornell, 59, M.S, 60; Ph.D.(agr. econ), Pa. State, 65. Res. assoc, Cornell, 60-61; economist, N.Y-N.J. Milk Mkt. Area, 61-65; ASST. PROF, Vermont, 65-66; AGR. ECON. & MKT, RUTGERS, 66- Agr. Econ. Asn; Econ. Asn. Marketing of agricultural products. Publ: Co-auth, Earnings of single plant operating cooperative as related to class III prices—New York-New Jersey Milk Marketing Area, Pa. Agr. Exp. Sta. Bull, 4/67; co-auth, Measuring and improving milk route profitability, Cornell Univ. Agr. Exp. Sta. Bull, (in press). Address: Dept. of Agricultural Economics, Rutgers, The State University, New Brunswick, N.J. 08903.

DEVINO, DEAN WILLIAM STANLEY, b. Burlington, Vt, Nov. 17, 26; m. 48; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. B.A, Vermont, 51; M.A, Connecticut, 53; univ. fel, Mich. State, 54-55, Ford Found. fel, 57-58, Ph.D. (econ), 59. Asst. econ, Connecticut, 51-53; Mich. State, 53-57, instr, 55-57, res. assoc. labor & indust. rel, 58-59, lectr. econ, 59-60; asst. prof. BUS. & ECON, MAINE, 60-62, assoc. prof, 62-63, PROF, 63-, DEAN COL. BUS. ADMIN, 63- Consult, State Senate Labor Cmt, Mich, 55. Mem. Gov. Task Force on Labor, Mich, 59. U.S.A, 55-56. Econ. Asn; Indust. Rel. Res. Asn. Industrial relations; unemployment insurance; current labor problems. Publ: Exhaustion of unemployment benefits during a recession; co-auth, A study of textile mill closings in selected New England communities, Univ. Maine, 66; auth, Unemployment insurance claimants exhausting benefits in 1957-58, Labor Rev. Address: College of Business Administration, University of Maine, Orono, Maine 04473.

DEVLIN, MAJ. JOHN P(AUL), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

DEVOE, DR. DONALD B(ROWN), b. Bangor, Maine, Sept. 11, 19; m. 42; c. 3. PSYCHOLOGY. B.A, Maine, 41, M.A, 47; Mass. Inst. Tech, 42; Ph.D.(psychol), Rochester, 52. Res. psychologist, Chanute Air Force Base, 50-52; res. assoc, Tufts, 52-57, asst. prof. psychol, 55-57; res. psychologist, Air Force Cambridge Res. Center, 57-61; mem. sr. sci. staff, Sperry Rand Res. Center, 61-62; SR. ENG. SPECIALIST, SYLVANIA ELECTRONIC SYSTS. DIV, GEN. TEL. & ELECTRONICS, INC, 62- U.S.A.A.F, 41-46, Res, 61-, Col. AAAS; Psychol. Asn; Inst. Elec. & Electronics Eng; Human Factors Soc. Human factors; perception; manual skills; man-computer interactions. Publ: Co-ed. & co-auth, Handbook of human engineering data; auth, Human integration of concurrent audio and visual messages, J. Audio Eng. Soc, 7/66; Alternatives to handprinting in the manual entry of data, IEEE Trans. Human Factors Electronics, 3/67. Address: 130 Concord Rd, Sudbury, Mass. 01776.

DeVOE, DR. ERNEST MERRILL, b. Lima, Ohio, Mar. 25, 15. BUSINESS ADMINISTRATION, MARKETING. B.A, Ohio Northern, 37; M.B.A, Northwestern, 38; Ph.D.(mkt), Ohio State, 46. Instr. bus. admin, State Col. Wash, 39-40; asst. prof. mkt, Colorado, 40-41; instr, Pennsylvania, 41-43; bus. admin, Ohio State, 45-46; assoc. prof. mkt, Kentucky, 46-49; advert, Southern California, 49-50; PROF. MKT, KENTUCKY, 56- Vis. prof, Hawaii, 63. Mkt. Asn; Acad. Advertising; Acad. Mgt; Soc. Training & Develop. Sales management; marketing communications; product planning; organizational behavior. Publ: Effective advertising copy, Macmillan, 56; Successful sales management, 56 & How to tailor your sales organization to your market, 64, Prentice-Hall. Address: College of Business and Economics, University of Kentucky, Lexington, Ky. 40506.

DeVOE, ROBERT P, b. Detroit, Mich, Apr. 25, 22; m. 48; c. 2. PSYCHOLOGY. B.A, Central Michigan, 50; M.A, Detroit, 51. Asst. display & design res, aeronaut. res. center, MICHIGAN, 51-52, res. assoc. & group leader, Willow Run Lab, 52-56, res. assoc, 56-58, RES. ENGR. & PSYCHOLOGIST, SYSTS. & SIMULATION, INST. SCI. & TECH, 59- Vis. lectr, Eastern Michigan, 63- U.S.A, 42-46, Sgt. Psychol. Asn; Human Factors Soc. Chemistry; design and evaluation of displays, controls and information processing systems; planning and conduct of organized research effort. Address: 1433 Collegewood, Ypsilanti, Mich. 48197.

DeVORE, DR. (BOYD) IRVEN, b. Joy, Tex, Oct. 7, 34; m. 56; c. 2. ANTHROPOLOGY. B.A, Texas, 56; M.A, Chicago, 59, Ph.D.(anthrop), 62. Asst. prof. ANTHROP, California, Berkeley, 60-61; fel, Miller Inst. Basic Res. Sci, 61-62; Center Adv. Study Behav. Sci, Stanford, 62-63; LECTR, HARVARD, 63-65, ASSOC. PROF. ANTHROP. & RES. ASSOC. PRIMATOLOGY, 65- Nat. Sci. Found. grants, 61-62 & 63-65. Consult, Ed. Serv, Inc, 63-65; Anthrop. Curriculum Study Proj, 64-65; adv. cmt. primate res. centers, U.S. Pub. Health Serv, 65- AAAS; Anthrop. Soc; Ethological Soc. Am; Asn. Phys. Anthrop. Nonhuman primate behavior;hunter-gatherer ecology and social organization; human evolution. Address: Room 320, William James Hall, 33 Kirkland St, Harvard University, Cambridge, Mass. 02138.

DeVORSEY, DR. LOUIS, JR, b. Newark, N.J, Apr. 6, 29; m. 60; c. 3. GEOGRAPHY. A.B, Montclair State Col, 52; M.A, Indiana, 54; Stockholm, 58-59; Ph.D.(hist. geog), London, 65. Asst. prof. GEOG, East Carolina, 61-63; North Carolina, 64-67; ASSOC. PROF, GEORGIA, 67- Consult, Cmn. Geog. Appln. Remote Sensing, 67- U.S.N.R, 54-58, Lt. Comdr. Asn. Am. Geog; Am. Geog. Soc; Soc. Photogram. Historical geography of colonial America, especially cartography and land and boundary problems. Publ: Indian boundary in the Southern colonies, 1763-1775, Univ. North Carolina, 66; West Europe—East Europe, Sadlier, 68; Colonial Southeast on an accurate general map, Southeast. Geog, 66. Address: Dept. of Geography, University of Georgia, Athens, Ga. 30601.

DeVOS, PROF. GEORGE A(LPHONSE), b. Detroit, Mich, July 25, 22; m. 44; c. 4. CLINICAL PSYCHOLOGY, ANTHROPOLOGY. B.A, Chicago, 46, M.A, 48, Ph.D.(clin. psychol), 51; U.S. Pub. Health Serv. fel, Ill. Neuropsychiat. Inst, 49-50. Asst. psychol, bd. exam, Chicago, 47-48; mem. Japanese-Am. Interdisciplinary Res. Group, Chicago Inst. Psychoanal, 47-51; res. assoc. psychol, Michael Reese Hosp, Chicago, Ill, 51; chief psychologist. & dir. psychol. internship training prog, Elgin State Hosp, 51-53; Fulbright res. grant, human rel. interdisciplinary res. group, Nagoya Nat. Univ, Japan, 53-55; asst. prof. psychol, supvr. diagnostic procedure, psychol. clin. & dir. Ford Found, Japanese personality & culture res. prof, Center Japanese Studies, Michigan, 55-57; assoc. prof. soc. welfare, CALIFORNIA, BERKELEY, 57-65, PROF. ANTHROP, 65-, DIR. COMP. RES. DELINQUENCY PROJ, INST. HUMAN DEVELOP. & CHMN. CENTER JAPANESE & KOREAN STUDIES, 65- Ford Found. res. grant, 56- Anthrop. Asn; Psychol. Asn. Clinical psychology testing; personality and culture. Publ: Co-auth, Oasis and Casbah: Algerian culture and personality in change, Univ. Michigan, 60; Japan's invisible race: Caste in culture and personality, Univ. California, 65; auth, Relation of guilt towards parents to achievement and arranged marriage among the Japanese, Psychiatry. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

DeVOS, DR. TON P(IETER), b. Boskoop, Netherlands, Oct. 3, 26; nat; m. 51; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Phillips, 50; M.A, Minnesota, 57; South. Fel. Fund grant & Ph.D, Oklahoma, 62. Asst. prof. POLIT. SCI, Phillips, 57-59, assoc. prof, 59-62, prof, 62-67; ASSOC. PROF, TRINITY (TEX), 67- Polit. Sci. Asn. Comparative government; foreign policy making machinery and processes; international communication; machinery, processes and content of international information programs. Address: Dept. of Political Science, Trinity University, San Antonio, Tex. 78212.

de VRIES, DR. BAREND A, b. Utrecht, Netherlands, Oct. 22, 25; m. 52. ECONOMICS. M.S, Utrecht, 46; Chicago, 46-48; Soc. Sci. Res. Coun. fel. & Ph.D, Mass. Inst. Tech, 51. Asst, Cowles Cmn, Chicago, Ill, 46-48; ECONOMIST, Int. Monetary Fund, 49-55, INT. BANK RECONSTRUCT. & DEVELOP, 55-Vis. prof. grad. course econ. develop, Hopkins, spring 67. Economet. Soc. International trade and finance; economic development and growth; empirical research and forecasting. Publ: The export experience of developing countries, World Bank Staff, 67; Immediate effects of devaluation on raw materials prices; Price elasticities of industrial commodities imported into United States. Address: International Bank for Reconstruction & Development, 1818 H St, Washington, D.C. 20433.

de VRIES, PROF. E, b. Grijpskerke, Netherlands, Jan. 29, 01; m. 24, 47; c. 7. AGRICULTURAL ECONOMICS. Agr. Eng, Wageningen, 23, Dr.(agr), 31. Hort. officer, Govt. Netherlands, Indies, 24-29, sr. officer, bur. agr. econ, 29-34, chief asst, bur. gen. econ. affairs, 35-37, chief, 37-41; dean faculty agr, Univ. Indonesia, 41-46; prof. trop. agr. econ. & agrarian law, Wageningen, 47-50; chief econ. resources div, Int. Bank Reconstruct. & Develop, 50-52, agr. div, 52-56; rector econ. develop. & soc. change, Inst. Social Studies, Netherlands, 56-66, fel, 66; PROF. INT. DEVELOP, GRAD. SCH. PUB. & INT. AFFAIRS, PITTSBURGH, 66- Gen. coun, Netherlands Ministry Overseas Affairs, 46-50; co-dir, Netherlands Univs. Found. Int. Coop, 56-66; Food & Agr. Orgn. rep, Consultative Cmt. Non-Govt. Orgns.

Freedom from Hunger Campaign, 59-66; consult, gen. surv. mission Tanganyika, Int. Bank Reconstruct. & Develop, 59; econ. mission Mekong cmt, Ford Found, 61, surv. & res. soc. action by religious bodies in developing countries, 64-68, coordinator agro-econ. surv. Indonesia, 65-; sr. consult, UN Develop. Prog, 66-67; lectr, Bank of Sudan, 67. Mem. working cmt. church & soc, World Coun. Churches, 55-, chmn, 55-63, mem. cmt. spec. assistance soc. projs, 63-, chmn, panel agr. & rural develop; bd. mem. & v.chmn, Africa Inst, Leyden Univ, 56-66; chmn, Netherlands Orgn. Int. Coop, 56-66, v.chmn, 61-; mem. bd. trustees, Latin Am. Inst, Amsterdam Univ, 64-66; mem, Nat. Adv. Coun. For. Aid, Netherlands, 64-66; cmt. mem. for. rels. dept, Nat. Acad. Coun, Netherlands. Soc. Int. Develop. (v.chmn. Europe, 63-65); fel. African Studies Asn; Netherlands Inst. Int. Affairs; Royal Soc. Agr. Sci, Netherlands; Int. Inst. Differing Civilizations; Royal Belgian Acad. Overseas Sci. Tropical agricultural development: economic and social aspects; general development science: economic, social and organizational aspects; non-governmental forces in development, especially churches; data retrieval for developmental purposes. Publ: Landbouw en Welvaart in het Regentschap Pasoeroean, Veenman, Wageningen, 31; Man in rapid social change, Doubleday & S.C.M. Press, 61; co-auth, Man in community, Assoc. Press & S.C.M. Press, 65. Address: Deer Lake Park, Chalkhill, Pa. 15421.

DeVRIES, WADE, Land Econ, see 10th ed, Soc. & Behav. Vols.

deVYVER, PROF. FRANK T(RAVER), b. Mt. Vernon, N.Y, May 14, 04. LABOR ECONOMICS. A.B, Oberlin Col, 26, A.M, 27; A.M, Princeton, 30, Ph.D, 35. Asst. labor probs, Virginia, 28-30; instr, Princeton, 30-35; from instr. to PROF. ECON, DUKE, 35-, VICE PROVOST, 60-, chmn. dept. econ. & bus. admin, 57-64. Supvr. State Merit Syst, N.C, 38-56; Fulbright lectr, Sydney Law Sch, 56-57; Western Australia, 64; State Dept. lectr, Natal, 64, Students' Vis. Lectr. Trust Fund lectr, 67. In charge personnel & labor rels, Erwin Mills, Inc, 42-45, v.pres, 45-55; consult. to Dep. Under Secy. for Manpower, U.S. Navy Dept, 66. Econ. Asn; Econ. Hist. Asn; Labor Res. Asn. Comparative industrial relations systems. Publ: Transplantation of trade unionism to British Africa, In: Transfer of institutions, 64 & Industrial relations systems in the Commonwealth, In: Decade of the Commonwealth, 1955-1964, 66, Duke. Address: 8 Sylvan Rd, Durham, N.C. 27701.

DE WAAL MALEFIJT, DR. ANNEMARIE, b. Amsterdam, Netherlands, U.S. citizen. ANTHROPOLOGY. B.A, Columbia, 55, Wenner-Gren Found. fel, 58-59, Ph.D.(anthrop), 60. ASSOC. PROF. ANTHROP, HUNTER COL, 60-Lectr, N.Y. Univ, 62-64; Columbia, 64-65. AAAS; fel. Anthrop. Asn; N.Y. Acad. Sci; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. Cultural anthropology; history, theory and method of anthropology; anthropology of religion. Publ: The Javanese of Surinam, Humanities, 63; Religion and culture, Macmillan, 68. Address: 552 Riverside Dr, Apt. 6-C, New York, N.Y. 10027.

DEWALD, DR. WILLIAM G, b. Sioux City, Iowa, Nov. 9, 28; m. 52; c. 4. ECONOMICS. B.S, Northwestern, 50; M.A, Minnesota, 56, Ph.D.(econ), 63. Assoc. economist, Fed. Reserve Bank Minneapolis, 57-60; assoc. prof. econ. & bus. admin. & acting chmn. dept, St. Olaf Col, 60-62; asst. prof. ECON, Chicago, 62-64; from assoc. prof. to PROF, OHIO STATE, 64- Vis. economist, Reserve Bank of Australia, 66-67. U.S.A, 51-53. Econ. Asn; Finance Asn; Economet. Soc; Royal Econ. Soc; Econ. Soc. Australia & N.Z. Monetary theory: central banking and commercial banking policy; statistical analysis of money market data to estimate objectives and effects of policy actions; U.S. and Australian financial institutions. Publ: Free reserves, total reserves, and monetary control, J. Polit. Econ, 4/63; Money supply versus interest rates as proximate objectives of monetary policy, Nat. Banking Rev, 6/66; co-auth, Sources of variation in member bank reserves, Rev. Econ. & Statist, 5/67. Address: Dept. of Economics, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

DEWAR, DR. ROBERT EDWARD, b. St. George, N.B, Apr. 19, 35; m. 59; c. 2. PSYCHOLOGY. B.A, Mt. Allison, 57; M.A, Toronto, 59; Ph.D.(psychol), McMaster, 65. Psychologist, Sask. Hosp, Weyburn, 59-60; Univ. Hosp, Saskatoon, 60-62; ASST. PROF. PSYCHOL, CALGARY, 65- Defense Res. Bd. Can. res. grant, 66-68. Am. Psychol. Asn; Can. Psychol. Asn. Perception; perceptual learning. Publ: Stimulus determinants of the magnitude of the Müller-Lyer Illusion, Perceptual & Motor Skills, 6/67; Effect of angle between the oblique lines on the practice decrement of the Müller-Lyer Illusion with extended practice, Perception & Psychophysics, 10/67; Stimulus determinants of the practice decrement in the Müller-Lyer Illusion, Can. J. Psychol, 12/67. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

DEWEY, DR. ALICE G(REELEY), b. New York, N.Y, Dec. 4, 28. SOCIAL ANTHROPOLOGY. B.A, Radcliffe Col, 50, M.A, 55, fel, 57, Ph.D, 59; Leverhulme studentship, London Sch. Econ, 57-58; fel, Center Int. Studies, Mass. Inst. Tech, 52-54. Field work soc. anthrop, 59-60, 63-64; ASSOC. PROF. ANTHROP, HAWAII, 62- Fel. Anthrop. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Brit. Asn. Soc. Anthrop. Economic anthropology; cultural adaptation in Southeast Asia and the Pacific. Publ: Peasant marketing in Java; Trade and social control, J. Royal Anthrop. Inst; Capital, credit and saving in Javanese marketing, In: Capital, savings and credit. Address: Dept. of Anthropology, University of Hawaii, Honolulu, Hawaii 96822.

DEWEY, DR. ANNE HULSE, b. Port Jefferson, N.Y, July 25, 99; m. 21; c. 1. ECONOMICS. B.S, West Virginia, 27; M.A, N.Y. Univ, 28, Ed.D, 36. Mem. faculty, N.Y. Univ, 24-34; Mills Col, 34-37; from instr. to ASST. PROF. ECON, HUNTER COL, 37- With U.S. Govt, 44-47. Consult, Truscon Steel Co; MacAndrews-Forbes Co; W.R. Grace & Co. Econ. Asn; Statist. Asn; Finance Asn. Corporation finance; industrial management. Publ: Ed. & co-auth, Organizing and financing business; auth, Wall Street, then and now; Financial problems of professional schools. Address: Box 754, Red Creek Rd, Hampton Bays, N.Y. 11946.

DEWEY, DR. CHARLES S, b. Fairbanks, Alaska, Oct. 22, 05; m. 42. INDUSTRIAL PSYCHOLOGY. M.S, Washington (Seattle), 38; Ed.D, Stanford, 44. Dir. State Voc. Surv, Ariz, 38; training specialist, Army Serv. Forces, Calif, 43-44; indust. psychologist, Stevenson, Jordan & Harrison, 44-46; PRIN, CHARLES S. DEWEY & ASSOCS, 46-; ASSOC. PROF. PSYCHOL, ILL. INST. TECH, 66- From assoc. prof. to prof. psychol. & chmn. dept, Chicago State Col, 61-66. Fel. AAAS; fel. Psychol. Asn; Soc. Mil. Eng; Inter-Am. Soc. Psychol; Mgt. Asn; Indust. Rels. Res. Asn; Voc. Asn; Inst. Soc. & Behav. Sci; Inst. Mgt; Acad. Polit. & Soc. Sci; Int. Asn. Appl. Psychol; Int. Soc. Clin. & Exp. Hypnosis. Selection and development of executives in industry; management organization and administration; market research; counseling and guidance. Address: Charles S. Dewey & Associates, 135 S. La Salle St, Chicago, Ill. 60603.

DEWEY, DR. DONALD O(DELL), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DEWEY, DR. FRED(ERICK) A(RCHIBALD), Statist, Econ, see 10th ed, Soc. & Behav. Vols.

DEWEY, DR. GERALD J, b. South Bend, Ind, July 19, 34; m. 55; c. 3. SOCIOLOGY. B.A, Notre Dame, 56, M.A, 57, Nat. Exten. Soc. Am. grant, 65-67, Ph.D.(sociol), 67; Harvard, 64. Instr. SOCIOL, Albuquerque, 57-60; ASST. PROF, NAZARETH COL.(MICH), 61- Nat. Sci. Found. grant, 62. Sociol. Asn. Sociological study of religious organizations; role behavior in the context of social change. Publ: Incongruity in the pastoral role, In: The behavior of American Catholics, Wiley, 68. Address: Dept. of Sociology, Nazareth College, Kalamazoo, Mich. 49074.

DEWEY, DR. REBECCA A, b. Auburn, Wash, Oct. 11, 02; m. 42. INDUSTRIAL PSYCHOLOGY. B.A, Washington (Seattle), 26, M.A, 36; Ph.D.(Eng, clin. psychol), Stanford, 46. Instr, Stanford, 41-44, CONSULT, CHARLES S. DEWEY & ASSOCS, 46- Asst. prof, Illinois, 46-49. Fel. AAAS; Psychol. Asn; Inter-Am. Soc. Psychol; Indust. Rels. Res. Asn; Personnel & Guid. Asn; Mod. Lang. Asn; Inst. Mgt; Int. Asn. Appl. Psychol. Selection and development of executive talent; training in industry; morale studies for industry; counseling and guidance. Address: Charles S. Dewey & Associates, 135 S. La Salle St, Chicago, Ill. 60603.

DEWEY, PROF. RICHARD, b. Canandaigua, N.Y, Nov. 1, 12; m. 37; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. A.B, Col. Wooster, 36; Western Reserve 36-37; A.M, Oberlin Col, 39; Ph.D, Wisconsin, 46. From asst. prof. to prof. SOCIOL, Illinois, 46-58; PROF, NEW HAMPSHIRE, 58- chmn. dept, 58-64. Consult. urban affairs, Univ. South Florida, 67. Sociol. Asn; Inst. Planners. Urbanism. Publ: Co-auth, Introduction to social psychology, Macmillan, 66. Address: Dept. of Sociology, 15 Hamilton Smith Hall, University of New Hampshire, Durham, N.H. 03824.

DEWHURST, DR. J(AMES) FREDERIC, Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

DeWIND, PROF. HENRY A(LGER), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

de WIT, DR. FRED, b. Amsterdam, Holland, Jan. 15, 26; nat; m. 54; c. 3. PSYCHOLOGY. A.B, Ohio, 50; M.S, Pa. State, 51; Ph.D, Illinois, 55. Res. & clin. psychologist, State Hosp. South, Blackfoot, Idaho, 55-58, clin. psychologist, 58-60; La Crosse County Child Guid. Clin, Wis, 60-65; CHIEF PSYCHOLOGIST, CHILDREN'S SERV, WEST. MO. MENT. HEALTH CENTER, 65- Lectr, Wis. State, La Crosse, 63-65; asst. prof, Missouri, Kansas City, 65- Consult, ment. hyg. clin, Vet. Admin. Hosp, 66- Curacao Militia, 45-46. Psychol. Asn. Group therapy; development of a scale enabling measurement of the level of interaction among group members; family therapy. Publ: Therapist behavior in group therapy. Address: Children's Services, Western Missouri Mental Health Center, Kansas City, Mo. 64108.

DE WIT, PROF. GERARD A, Psychol, see 10th ed, Soc. & Behav. Vols.

DeWITT, DR. NICHOLAS, b. Kharkov, Russia, May 12, 23; nat; m. 48; c. 5. ECONOMICS. A.B, Harvard, 52, Ford Found. jr. fel, 52-53, A.M, 53, univ. fel, 53-55, Ph.D, 62. Spec. lang. instr, for. serv, U.S. Dept. State, 50-54; mem. staff, off. sci. personnel, Nat. Acad. Sci-Nat. Res. Coun, D.C, 54-55, 56-57, res. assoc. & proj. dir, 58-62; consult. ed, McGraw-Hill Pub. Co, 55-56; ASSOC. PROF. ed, INDIANA, 62-64, ECON. & GOVT, 64-, DIR. INT. SURV. ED. DEVELOP. & PLANNING, 62- Instr, U.S. Air Force Inst. Tech, 52-53; asst, Russian Res. Center, Harvard, 50-53, assoc, 54-62; summer res. assoc, Inst. Int. Studies, Mass. Inst. Tech, 53. Consult, U.S. Air Force Planning Proj, North Carolina, 54; Nat. Sci. Found, 58-; Off. Secy. Gen, Orgn. European Coop. & Develop, 62; U.S. Agency Int. Develop. & Planning Cmn, Govt. Pakistan, 64-65; U.S. Agency Int. Develop. & Nat. Ed. Cmn, Govt. India, 65-66. Asn. Adv. Slavic Studies; Comp. Ed. Soc; Soc. Int. Develop; Econ. Soc. Economics of education and development of human resources in the Soviet Union and countries of the communist bloc and in underdeveloped countries throughout the world. Publ: Soviet professional manpower, 55; Education and professional employment in the USSR, 61; Reorganization of science and research in the USSR, Science. Address: Dept. of Economics, Indiana University, Bloomington, Ind. 47401.

De WOLFE, DR. ALAN S(TEYAART), b. Madanapelle, India, Aug. 12, 30; m. 52. PSYCHOLOGY. B.A, Oberlin Col, 52; Bowling Green State, 52-53; Heidelberg, 52-53; Ohio, 53-55; Marquette, 55-56; M.S, Northwestern, 58, Ph.D, 60. Phys. & aquatic dir, YMCA & YWCA, Tiffin, Ohio, 52-53; rt. mgr, Jewel Tea Co, Wis, 55-56; clin. asst. psychol, grad. sch, Northwestern, 56-57; trainee clin. psychol, Vet. Admin. Hosps, Chicago, Ill, 57-60, staff psychologist, Hines, 60-63; sr. res. clin. psychologist & instr. psychiat. residents, Inst. Pa. Hosp, 63-65; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, 65- Hall-Mercer Found. res. grant, 63-64; prin. investr, Nat. Inst. Ment. Health res. grant, 64-65, psychol. dir, 65-; instr, exten. div, Pa. State, 64-65; lectr, Northwestern, 65-67; Lake Forest Col, 66-; Loyola (Ill), 67- Mem. exec. cmt, Vet. Admin. Coop. Res. Proj, 61-65. U.S.A, 53-55. Psychol. Asn. Process reactive distinction in schizophrenia; attitudes and attitude change in hospital personnel; physiological measures of emotion. Publ: Effect of affective tone on the verbal behavior of process and reactive schizophrenics, J. Abnorm. & Soc. Psychol; The clinical physician as a research instrument: in defense of clinical judgment, Psychosom. Med,

4/66; Identification and fear decrease, J. Consult. Psychol, 8/67. Address: Psychology Research Lab, Veterans Administration Hospital, Downey, Ill. 60064.

DeWOLFE, DR. RUTHANNE K(ATHERINE) S(OBOTA), b. Milwaukee, Wis, Aug. 14, 33; m. 52. PSYCHOLOGY. B.A, Heidelberg Col, 54; M.S, Northwestern, 58, Ph.D.(psychol), 60. Staff psychologist, Hines Vet. Admin. Hosp, 60-62; private practice, 62- Psychol. Asn. Perception, motivation, learning and language behavior; evaluation and treatment of children with behavior problems. Publ: Co-auth, Time estimation as a function of level of behavior of successive tasks, J. Exp. Psychol. Address: 811 Colfax St, Evanston, Ill. 60201.

DEWS, EDMUND, Atmospheric Physics, see 11th ed, Phys. & Biol. Vols.

DEWS, DR. JOHN E(MMETT), JR, b. Little Rock, Ark, Sept. 10, 28; m. 53; c. 2. PSYCHOLOGY. B.S, Tulane, 56; Ph.D.(psychol), Vanderbilt, 65. Trainee PSYCHOL, Vet. Admin. Hosps, Murfreesboro, Tenn, 57-59, intern, Memphis, 59-60; instr, MEMPHIS STATE, 60-65, asst. prof, 65-66, ASSOC. PROF, 66- Proj. dir, U.S. Pub. Health Serv. ment. retardation res. training grant psychol, 66- Consult, Memphis Speech & Hearing Center, 65-; psychol. testing br, div. spec. ed, Tenn. Dept. Ed, 67- U.S.A.F, 49-52, 1st Lt. AAAS; Psychol. Asn; Asn. Ment. Deficiency. Relationships between endocrine function and behavior in animals and humans; clinical training for graduate students in psychology and mental retardation. Address: Dept. of Psychology, Memphis State University, Memphis, Tenn. 38111.

DEXTER, DR. LEWIS A(NTHONY), b. Nov. 13, 15; U.S. citizen. POLITICAL SCIENCE, SOCIOLOGY. A.B, Chicago, 35; A.M, Harvard, 38; Ph.D, Columbia, 60. Res. assoc. econ, Chicago, 43; asst. to chancellor, Puerto Rico, 44-45; lectr. soc. econ, Bryn Mawr Col, 46; polit. sci. & sociol, Hobart Col, 47-48; PRIVATE RESEARCH, 48- Lectr, Howard, 46 & 49; chmn. dept. sociol. Park Col, 48-50; vis. prof, Harvard, 60; Puerto Rico, 61 & 65; Soc. Sci. Res. Coun. res. grant comp. study U.S. & Can. Prov. govt, 66-69; vis. prof, Mich. State, 67; California, Berkeley, 68. Pub. opinion & elections analyst, Democratic Nat. Cmt, 52; res. consult, center int. studies, Mass. Inst. Tech, 53-57; adv. family & health study, Delaware, 53-57; res. psychologist, HumRRO, 54; res. dir, Gov. of Mass, 56-57, 60-61; U.S-Japan Trade Coun, 58-59; Harvey Aluminum, 59; consult, Oak Ridge Nat. Lab. Co-recipient, Woodrow Wilson award best book on polit. sci. pub. in U.S, 63. Polit. Sci. Asn; fel. Sociol. Asn; fel. Asn. Ment. Deficency. Public opinion and political communications, particularly congressional processes and state politics; civil defense; mental deficiency. Publ: Tyranny of schooling, an inquiry into the problem of stupidity, Basic Books, 64; co-ed, People, society and mass communications, Macmillan, 64; auth, Group representatives before government; government relations as a profession and a task, Bobbs, 68. Address: 536 Pleasant St, Belmont, Mass. 02178.

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DE YOUNG, DR. KENNETH N(ORMAN), b. Grand Rapids, Mich, June 21, 30; m. 55; c. 4. PSYCHOLOGY. B.A, Mich. State 56, M.A, 57; Ford Found. fel, Minnesota, Minneapolis, 57-61, Ph.D.(psychol), 61. Instr. PSYCHOL, Augsburg Col, 60-62; asst. prof, MINNESOTA, DULUTH, 62-65, ASSOC. PROF, 65- Vis. instr, Macalester Col, summer, 61. Job eval. consult. Minn. Power & Light Co, 65-; res. consult, Minn. State Dept. Ed, 65-; Ed. Res. & Develop. Coun. Northeast Minn, 66; Duluth Pub. Schs, 66-67. U.S.N, 51-55. Psychol. Asn. Behavior theory; perception; learning; research methodology. Address: 3751 Highway 194, Duluth, Minn. 55811.

DeYOUNG, PROF. QUINTIN R(ICHARD), b. Grand Rapids, Mich, Dec. 23, 15; m. 37; c. 3. PSYCHOLOGY. B.A, Chapman Col, 45; Yale, 45-47; Ph.D. (psychol. of relig), Southern California, 59. Registr, Chapman Col, 47-51, asst. to pres, 50-51; minister, Congregational Christian Churches, 51-58; assoc. prof. psychol. & relig, CHAPMAN COL, 58-65, PROF. PSYCHOL, 65-, head dept, 58-66. Consult, Affiliated Psychol. Consults, 59- Psychol. Asn. Relation of religion to psychology and psychiatry; psychotherapy, clinical psychology and personality growth. Publ: A study of guilt. Address: Dept. of Psychology, Chapman College, 333 N. Glassell St, Orange, Calif. 92666.

DEYRUP, DR. FELICIA J(OHNSON), b. White Plains, N.Y, Oct. 19, 17. ECONOMICS. A.B, Columbia, 38, A.M, 39, Ph.D, 46; Coun. Indust. Studies fel, Smith Col, 40-41. Asst, Princeton, 42-43; instr. ECON, Brooklyn Col, 46-48; asst. prof, NEW SCH. SOC. RES, 49-56, ASSOC. PROF, 56- Econ. Asn; Econ. Hist. Asn. Economic history; economic development; arms makers of the Connecticut Valley. Address: New School for Social Research, New York, N.Y. 10011.

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DHRYMES, PROF. PHOEBUS J, b. Cyprus, Oct. 1, 32; nat. ECONOMICS, STATISTICS. B.A, Texas, 57; Ph.D, Mass. Inst. Tech, 61. Instr. ECON, Mass. Inst. Tech, 61; asst. prof, Harvard, 62-64; assoc. prof, PENNSYLVANIA, 64-67, PROF, 67- Nat. Sci. Found. fel, 61-62; Guggenheim fel, 65-66. Managing ed. & ed, Int. Econ. Rev, 64- Statist. Asn; Econ. Asn; Econ. Study Soc; Economet. Soc; Inst. Math. Statist. Micro-economic theory; measurement of economic relations; econometric theory. Publ: Co-auth, Technology and scale in electricity generation, Econometrica, 64; auth, Adjustment dynamics and estimate of CES produce functions, Int. Econ. Rev, 67. Address: Dept. of Economics, University of Pennsylvania, Philadelphia, Pa. 19104.

DIAL, DR. HAROLD E, Psychol, see 10th ed, Soc. & Behav. Vols.

DIAL, DR. OLIVER EUGENE, b. Wood River, Ill, Nov. 10, 22; m. 44; c. 1. POLITICAL SCIENCE. B.A, San Diego State Col, 59, M.S, 62; fel, Claremont Grad. Sch, 63-65, Ph.D.(govt), 65. Time & motion study engr, Owens Ill. Glass Co, Ill, 40-42; lectr. govt, San Diego State Col, 64; asst. prof. govt, Calif. State Polytech. Col, 64-65; asst. prof, Idaho State, 65-68, chmn. dept. & dir. summer sessions, 66-68, dir. govt. res. inst, 67-68; VIS. LECTR. POLIT. SCI, MEM. FACULTY, JOINT CENTER URBAN STUDIES & ASSOC. DIR, URBAN SYSTS. LAB, MASS. INST. TECH, 68- U.S.M.C, 42-63, Maj. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; state, local and American government. Publ: Programming and statistics for social science research, Am. Book Co, 68; Urban information systems: a bibliographic essay, Urban Systs. Lab, Mass. Inst. Tech, 68; A norm for bonded debt in California counties, Munic. Finance, 5/66. Address: E53-429, Dept. of Political Science, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

DIAMANT, PROF. ALFRED, b. Vienna, Austria, Sept. 25, 17; m. 43; c. 2. POLITICAL SCIENCE. A.B, Indiana, 47, M.A, 48; Cowles fel, Yale, 48-50, Danforth grant, 55-56, Ph.D.(polit. sci), 57. Asst. polit. sci, Indiana, 47-48; Yale, 48-50; from instr. to assoc. prof. polit. sci, Florida, 50-60; Haverford Col, 60-63, prof, 63-67, chmn. dept, 63-66; PROF. GOVT, INDIANA, 67- Lectr, Indiana, 56; vis. assoc. prof, Yale, 58-59; Columbia, summer, 61; Fulbright travel grant & vis. prof, Ruhr Univ, 66-67. Consult, Fund for the Repub, 58; U.S. Off. Ed, 65-66. Mem. prog. cmt, Comp. Admin. Group, 62-, summer res. seminars, 63-65; adv. coun, Danforth Found, 63-66. Polit. Sci. Asn; Soc. Pub. Admin; Soc. Hist. Studies, France. French political institutions and processes, especially bureaucracy; bureaucratic theory and comparative studies of bureaucracy. Publ: Austrian Catholics and the First Republic: democracy, capitalism and the social order, 1918-1934; co-auth, Political development: approaches to theory and strategy, McGraw, 66; auth, Modellbetrachtung der Entwicklungsverwaltung, Nomos Verlag, W.Germany, 67. Address: Dept. of Government, Woodburn Hall, Indiana University, Bloomington, Ind. 47401.

DIAMANT, PROF. LOUIS, b. June 23, 21; U.S. citizen; m. 48; c. 2. PSYCHOLOGY. B.S, N.Y. Univ, 48, M.A, 57; Ph.D.(psychol), Yeshiva, 60. Teacher-psychologist, pub. schs, N.Y, 49-58; dept. psychiat, Jacobi Hosp, 58-61; clin. psychologist, Mecklenburg County Ment. Health Center, 61-63; PROF. PSYCHOL, NORTH CAROLINA, CHARLOTTE, 63- Lectr, British Columbia, 60; Yeshiva & Queens Col, 60-61. Consult, group psychother. proj, Girls Serv. League, 59-61; Mecklenburg County Ment. Health Center, 63- Psychol. Asn. Relationship between mental health and sexual behavior in college students; cross-cultural study of relationship between mental health and attitudes toward drinking. Publ: Case studies in psychopathology, (in prep); co-auth, School counselors as psychotherapists, Sch. Counsr, 12/65; auth, Relationships between intelligence and parental attitudes and race awareness, J. Soc. Psychol, (in press). Address: Dept. of Psychology, University of North Carolina, Charlotte, N.C. 28202.

DIAMOND, PROF. A(ARON) LEONARD, b. New York, N.Y, Feb. 18, 24. PSYCHOLOGY. B.A, Cincinnati, 47; M.A, Columbia, 49, Ph.D.(psychol), 51. Instr. PSYCHOL, Northwestern, 52-54, asst. prof, 54-57; assoc. prof, HAWAII, 57-63, PROF, 63-, DIR. LAB. SENSORY SCI, 66- Res. grants, U.S. Pub. Health Serv, 54-56, Nat. Sci. Found, 54-56, 59. U.S.A.A.F, 43-46. Psychol. Asn. Physiology of learning; vision; audition. Publ: Simultaneous brightness contrast as a function of test and inducing field luminance & Simultaneous brightness contrast as a function of area, J. Exp. Psychol. Address: Lab. of Sensory Sciences, 1993 East-West Rd, University of Hawaii, Honolulu, Hawaii 96822.

DIAMOND, DR. A(RNOLD) H(AROLD), b. New York, N.Y, Dec. 21, 25; m. 51; c. 2. ECONOMICS. B.B.A, City Col. New York, 46; M.A, Columbia, 47, Ph.D.(econ), 54. Instr. econ, City Col. New York, 47-51, lectr, 55; financial economist, off. int. finance, U.S. Treas. Dept, 51-54; financial analyst, munic. res. dept, Dun & Bradstreet, Inc, 55; financial economist, community facilities admin, Housing & Home Finance Agency, 55-61, chief economist, 61-63; sr. economist, banking & currency cmt, U.S. House Rep, 63; ASST. DIR, OFF. ECON. & MKT. ANAL, DEPT. HOUSING & URBAN DEVELOP, 64- Consult. economist, joint econ. cmt, U.S. Cong, 66-68. U.S.N, 44-45. Econ. Asn; Finance Asn. Public finance; mortgage and capital markets; federal credit programs; municipal securities market; public facilities. Publ: A study of federal credit programs, U.S. House Rep. Banking & Currency Cmt, 64; co-auth & ed, State and local public facility needs and financing, U.S. Cong. Joint Econ. Cmt, 66; auth, Emerging fiscal patterns of metropolitan areas, Nat. Tax Asn. Proc, 66. Address: 1105 Caddington Ave, Silver Spring, Md. 20901.

DIAMOND, DR. BERNARD L(EE), b. San Francisco, Calif, Dec. 8, 12; m. 46; c. 6. PSYCHIATRY, PSYCHOANALYSIS. A.B, California, 35, M.D, 39. PROF. CRIMINOL. & LAW, CALIFORNIA, BERKELEY, 64- Royer award, 64; Isaac Ray award, 68. Dipl, Am. Bd. Psychiat. & Neurol, 46. Fel. AAAS; fel. Psychiat. Asn; Orthopsychiat. Asn; Am. Psychoanal. Asn; Sociol. Asn; Int. Psychoanal. Asn. Criminology; psychological and social deviance; legal psychiatry. Address: School of Criminology, University of California, Berkeley, Calif. 94720.

DIAMOND, DR. DANIEL E, b. Boston, Mass, June 20, 29; m. 58; c. 1. ECONOMICS. A.B, Massachusetts, 51; M.B.A, Boston, 53; fel, N.Y. Univ, 53-55, Ph.D.(econ), 58. Instr. econ, N.Y. UNIV, 55-58, asst. prof, 58-63, assoc. prof, 63-66, v.chmn. dept, 66-67, ASST. DEAN SCH. COMMERCE, 67- Econ. Asn; Econ. Hist. Asn. General economics and economic history. Publ: Co-ed, General economics: a book of readings; co-auth, Economics workbook. Address: School of Commerce, New York University, New York, N.Y. 10003.

DIAMOND, DR. EARL L(OUIS), Statist, see 11th ed, Phys. & Biol. Vols.

DIAMOND, DR. FLORENCE RAND, b. New York, N.Y, July 3, 06; m. 28; c. 1. PSYCHOLOGY. B.S, N.Y. Univ, 27; M.A, Columbia, 28; Ph.D, Claremont Cols, 58. Asst. psychol, N.Y. Univ, 28-30; psychologist, Great Neck Coop.

Sch, 46, ed. dir, 46-47; CONSULT. PSYCHOL, PASADENA CHILD CARE CENTER, 47- Private clin. psychologist, 53-; lectr, Los Angeles State Col, 59-61; res. dir. art ed. proj. academically handicapped children, Pasadena Art Mus, Rosenberg Found, 63-64. Psychol. Asn; Soc. Proj. Tech. & Personality Assessment; Asn. Ment. Deficiency. Clinical problems in the development of personality; child behavior disorders; personality development of the mentally retarded and mentally handicapped children. Publ: Mental deficit, In: Choice and inhibition. Address: 135 Sierra View Rd, Pasadena, Calif. 91105.

DIAMOND, DR. MARTIN, b. New York, N.Y, Dec. 19, 19; m. 40; c. 2. POLITICAL SCIENCE. A.M, Chicago, 52, Hillman fel, 54-56, Ph.D, 56. Instr. polit. sci, Ill. Inst. Tech, 52-53, asst. prof, 53-55; polit. & soc. sci, Chicago, 55-58; assoc. prof. polit. sci, CLAREMONT MEN'S COL. & GRAD. SCH, 58-64, BURNET C. WOHLFORD PROF. AM. POLIT. INSTS, 64- Lectr, Chicago, 52-55; fel, Center Adv. Study Behav. Sci, 60-61; Rockefeller Found. fel, 63-64; Relm Found. fel, 66-67. U.S. Merchant Marine, 43-45. Polit. Sci. Asn. American political thought; American government; political philosophy. Publ: Co-auth, The democratic republic, Rand McNally, 66; auth, Democracy and the federalist: a reconsideration of the framer's intent, Am. Polit. Sci. Rev; Federalist's view of federalism, In: Essays in federalism. Address: Dept. of Political Science, Claremont Men's College, Claremont, Calif. 91711.

DIAMOND, PROF. SIGMUND, b. Baltimore, Md, June 14, 20; m. 45; c. 2. SOCIOLOGY. A.B, Hopkins, 40; Emerton & univ. fels, Harvard, 51-53, Ph.D, 53. Fel. entrepreneurial hist, Harvard, 53-54; vis. asst. prof. HIST. SOCIOL, COLUMBIA, 55-56, asst. prof, 56-59, assoc. prof, 59-64, PROF, 64- Lectr, Sarah Lawrence Col, 55-56; fel, Center Adv. Study Behav. Sci, 59-60; Nat. Inst. Ment. Health grant, 61-62. Ed, Polit. Sci. Quart, 63-; mem. hist. panel, behav. & soc. sci. cmn, Nat. Acad. Sci, 67-; bd. dirs, Conf. Jewish Soc. Studies, 67- Hist. Asn; fel. Sociol. Asn; Econ. Hist. Asn. Economic history, especially the sociological context of economic development; comparative studies of English, French, and Spanish colonization. Publ: Casual view of America: the home letters of Baron Salomon de Rothschild, Stanford, 61; The nation transformed: the creation of an industrial society in the United States, Braziller, 63; The creation of societies in the new world, Rand McNally, 63. Address: Dept. of Sociology, Columbia University, New York, N.Y. 10027.

DIAMOND, PROF. SOLOMON, b. New York, N.Y, Sept. 18, 06; m. 28; c. 1. PSYCHOLOGY. B.S, N.Y. Univ, 27; M.A, Columbia, 28, Ph.D.(psychol), 36. Asst. psychol, Wash. Sq. Col, N.Y. Univ, 28-30, instr, 32-33; psychologist, adult guid. proj, Works Progress Admin, Bd. Ed, 37; counsr, Vet. Guid. Center, City Col. New York, 45; N.Y. Univ, 45-46; sr. psychologist, New York Voc. Adv. Serv, 46-47; sr. voc. counsr, Vet. Guid. Center, California, 47-49; PROF. PSYCHOL, CALIF. STATE COL. LOS ANGELES, 49- Lectr, Southern California, 47-49. Dipl, Am. Bd. Exam. Prfnl. Psychol; Trustees' Outstanding Prof. Award, Calif. State Cols, 64. AAAS; Psychol. Asn; Soc. Psychol. Study Soc. Issues. Personality; history of psychology. Publ: Personality and temperament; Information and error; co-auth, Inhibition and choice: a neuro-behavioral approach to problems of plasticity. Address: Dept. of Psychology, California State College at Los Angeles, Los Angeles, Calif. 90032.

DIAMOND, DR. STANLEY, b. New York, N.Y, Jan. 4, 22; m. 45; c. 2. ANTHROPOLOGY. Wenner-Gren fel, Columbia, 50-51, Ph.D.(anthrop), 51. Asst. anthrop, Columbia, 49-50; Soc. Sci. Res. Coun. fel, Israel, 51-53; vis. asst. prof, California, Los Angeles, 53-54; asst. prof, Brandeis, 56-58, 59-60; res. assoc, Studies Cultural Regularities Proj, Nigeria, 58-59; RES. ANTHROPOLOGIST, Nat. Inst. Ment. Health, Md, 60-67; NEW SCH. SOC. RES, 67- Grant, Cmt. Study Ment. Illness & Health, 56-57; Ford Found, 58-59; Bollingen Found, 59-60. Summers, lectr, Brooklyn Col, 50, asst. prof, Columbia, 54. Consult, Mayer & Whittlesey, 54. Am. Field Serv, 42-43. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc. Problems of human and cultural evolution; culture history, especially state formation; the mind and nature of primitive man and community; pathology of civilization. Publ: Culture in history. Address: Dept. of Anthropology, New School for Social Research, 66 W. 12th St, New York, N.Y. 10011.

DIAMOND, DR. WILLIAM, b. Baltimore, Md, Dec. 20, 17; m. 46. ECONOMICS. A.B, Hopkins, 37, Ph.D.(hist), 42. Econ. analyst, Bd. Econ. Warfare & For. Econ. Admin, 42-45; econ. adv, UNRRA Mission, Czech. & econ. analyst, UNRRA Hqs, Eng, 46-47; loan opers. officer, World Bank, 47-62, mem. staff, econ. develop. inst, 55-58, asst. dir, dept. opers-west. hemisphere, 60-62; DIR. DEVELOP. FINANCE CO. DEPT, INT. FINANCE CORP, 62- Asst. to chief, For. Econ. Admin. Mission, Turkey, 44-45, acting chief, Czech, 45-46. Publ: Economic thought of Woodrow Wilson; Czechoslovakia between East and West; Development banks. Address: 3315 Garfield St. N.W, Washington, D.C. 20008.

DIANA, DR. PEARL B(UTLER), b. Frankford, W.Va, May 30, 20; m. 50; c. 3. PSYCHOLOGY. B.S, New Mexico, 37, M.S, 40; Ph.D.(psychol), Pittsburgh, 48. Clin. psychologist, Allegheny County Juvenile Court, Pa, 42-45; sr. clin. psychologist, Seattle Guid. Clinic, Wash, 45-46; clin. psychologist & student supvr, Staunton Clinic, Pittsburgh, 47-52; mem, Governor's Coun. Children & Youth, Ind, 55-58; soc. agencies consult, 61-65; CHIEF PSYCHOLOGIST, CA-RUTH MEM. REHAB. CENTER, 67- From instr. to asst. prof, Med. Col. Va, 63-65; clin. asst. prof, southwest. med. sch, Texas, 67- Mem, Gov. Cmn. Status Women, Va, 65. Psychol. Asn; Soc. Proj. Tech. & Personality Assessment. Developmental psychology; rehabilitation; personality dynamics. Address: 3001 Coronado St, Irving, Tex. 75060.

DIAZ, DR. MAY NORDQUIST, b. Kalix, Sweden, May 2, 21; m. 44; c. 2. ANTHROPOLOGY. A.B, California, Berkeley, 46, Ph.D.(anthrop), 63. Lectr. anthrop, CALIFORNIA, BERKELEY, 62-64, asst. prof. anthrop. & ed, 64-66, ASSOC. PROF. ANTHROP, 66- Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; Asn. Latin Am. Studies. Social organization with an emphasis on peasant societies; European peasants; Latin American society and culture; socialization. Publ: Tonalá; Conservatism, responsibility and authority in a Mexican town, Univ. California, 66; co-auth, Peasant society: a reader, Little, 67. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

DIAZ-ALEJANDRO, DR. CARLOS FEDERICO, b. Havana, Cuba, July 18, 37. ECONOMICS. B.S, Miami (Ohio), 57; Ph.D.(econ), Mass. Inst. Tech, 61. Asst. prof. ECON, Yale, 61-65; ASSOC. PROF, MINNESOTA, MINNEAPOLIS, 65- Guggenheim res. fel, 67-68. Economist, cmt. of nine, Orgn. Am. States, 62-63, consult, Orgn, 64- Econ. Asn. Publ: Exchange rate devaluation in a semi-industrialized country, M.I.T. Press, 65; Industrialization and labor productivity differentials, Rev. Econ. & Statist, 5/65; The Argentine tariff, 1906-1940, Oxford Econ. Papers, 67. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

DIAZ-BORDENAVE, DR. JUAN E(NRIQUE), b. Encarnación, Paraguay, Nov. 5, 26; m. 56; c. 6. COMMUNICATIONS. Agrónomo, Sch. Agr, Casilda, Argentian, 51; M.A, Wisconsin, 55; Ph.D.(commun), Mich. State, 66. Pub. ed. agr, Point Four Agr. Prog, 53-54, head tech. info, Point Four Audiovisual Prog, 56; press & radio ed. agr. commun, INTER-AM. INST. AGR. SCI, ORGN. AM. STATES, 56-60, head Inter-Am. Commun. Serv, 64-65, REGIONAL SPECIALIST, Andean zone, 65-68, South. Zone, 68- Lectr, Inter-Am. Sch. Democratic Ed, San Jose. Hon. mem, Union Agr. Journalists, Colombia, 64- Rural Sociol. Soc; Paraguayan Inst. Sociol. Studies. Agricultural communications; the search for instrumental information by farmers; factors associated with the low level of production of scientific literature by Latin American agricultural researchers. Publ: Co-auth, Qué es la investigación en comunicación, 65 & auth, La radio y la televisión en la educación de la masas, 67, Inter-Am. Inst. Agr. Sci; Factores económicos en la adopción de prácticas agrícolas, Inter-Am. Inst. Agr. Sci. & J. Economía y Agricultura, Lima, 66. Address: Inter-American Institute of Agricultural Sciences, Caixa Postal 74-ZC-01, Largo do Machado, Rio de Janeiro, Brazil.

DIAZ-GUERRERO, DR. ROGELIO, b. Guadalajara, Mex, Aug. 3, 18; m. 46; c. 2. PSYCHOLOGY. B.S, Guadalajara, Mex, 37; M.D, Nat. Univ. Mexico, 43; M.A, Iowa, 44, Int. Inst. Ed. Roosevelt fel. & Ph.D.(psychol, physiol), 47. Res. psychiat, psychopath. hosp, Iowa, 44-45, neurol. dept, univ, 45-46; prof. exp. psychol, NAT. UNIV. MEXICO, 48-64, ASST. HEAD DEPT. PSYCHOL, 58-, HEAD LAB. EXP. PSYCHOL, 59- Chmn, dept. psychol, Mexico City Col, 47-52; instr. univ. & sr. res, neuropsychiat. inst, Miami (Fla), 54-55; vis. prof, Texas, 59, 66; Found. Fund Res. psychiat. res. grant & U.S. Dept. Ed. res. grant. Consult, Hogg Found. Ment. Health, Texas, 59; Mich. State, 60; Menninger Found, 62; inst. psycholing, Illinois, 64. Fel. AAAS; Psychol. Asn; Psychiat. Asn; Int. Soc. Gen. Semantics; Mex. Soc. Neurol. & Psychiat; Mex. Soc. Psychol.(pres, 65); Interam. Soc. Psychol.(pres. elect, 66). Culture and personality; mental health; cross cultural research; psychotherapy; child development and culture; theory in cross cultural research. Publ: Tres contribuciones a la psicoterapia, 59 & Estudios de psicologia dinamica, 62, Universidad Nacional Autonoma De Mexico; Estudios de Psicologia del Mexicano, Segunda Edicion, Editorial F. Trillas, 67. Address: Georgia 123, Mexico 18, D.F, Mex.

DIBBLE, PROF. CHARLES E(LLIOT), b. Layton, Utah, Aug. 18, 09; m. 36; c. 4. ANTHROPOLOGY. B.A, Utah, 36; M.A, Nat. Univ. Mexico, 38, Ph.D. (anthrop), 42. Asst. prof. ANTHROP, UTAH, 43-47, assoc. prof, 48-51, PROF, 51-, chmn. dept, 60-64. Rockefeller res. fel, 45, univ. fel, 47; Nat. Sci. Found. grants, 57, 62 & 65. Anthrop. Asn; Inst. Andean Res; Int. Nahuatl Asn. Aztec language and codices; codice Xolotl and codice en Cruz; Florentine codex. Address: Dept. of Anthropology, University of Utah, Salt Lake City, Utah 84112.

DiBELLA, PROF. EDWARD ENGEL, b. New York, N.Y, June 26, 05; m. 33; c. 5. SOCIOLOGY, SOCIAL WELFARE. B.S, Washington (St. Louis), 36, M.A, 38; Florence, 56-58; Ph.D.(higher ed), Catholic Univ, 63. Exec. dir, Wyo. Valley Community Coun, Pa, 46-51; Community Chest & Planning Coun. Prince Georges County, Md, 51-56; asst. prof. sociol. & dir. undergrad. soc. work sequence, Maryland, 58-66; PROF. SOCIOL. & COORDINATOR, SOC. WELFARE CURRICULUM, WESTERN KENTUCKY, 66- Part-time asst. prof. sociol. & dir. undergrad. soc. work sequence, Maryland, 54-56. Summer lectr, grad. sch. ed, Catholic Univ, 62-66. Consult, regional conf, Girl Scouts Am, Wash, D.C, 65; summer consult, Inst. Teachers Disadvantaged Youth, Wash, D.C, 64-66. Fel. Sociol. Asn; Asn. Social Workers; Acad. Cert. Soc. Workers. Social change in community organization; administration of higher education. Publ: Selection of professional school deans, Microfilm, 63. Address: Dept. of Sociology, Western Kentucky University, Bowling Green, Ky. 42101.

DIBNER, DR. ANDREW S(HERMAN), b. New York, N.Y, May 30, 26; m; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 48; M.A, Michigan, 49, Ph.D.(psychol), 53. Chief couns. psychologist, Dearborn Vet. Admin. Hosp, Mich, 53-56; affiliate asst. prof. psychol. & res. assoc, Clark, 56-58; staff psychologist, Boston Vet. Admin. Ment. Hyg. Clin, 58-60, chief clin. psychologist, 60-64; ASSOC. PROF. PSYCHOL, BOSTON, 64- U.S.A, 44-46. Psychol. Asn; Geront. Soc. Psychology of rehabilitation; psychotherapy; personality theory; gerontology. Publ: Ambiguity and anxiety, J. Abnorm. & Soc. Psychol; Cue-counting: a measure of anxiety in interviews & Intellectual functioning in a group of normal octogenarians, J. Consult. Psychol. Address: 8 Devon Terrace, Newton Centre, Mass. 02159.

DiCAPRIO, DR. NICHOLAS S, b. Cleveland, Ohio, Feb. 15, 30; m. 58; c. 2. PSYCHOLOGY. B.S, John Carroll, 54; M.A, Western Reserve, 56, Ph.D. (psychol), 59. Instr. PSYCHOL, JOHN CARROLL, 58-60, ASST. PROF, 60- Dir. counseling, sch. nursing, St. Vincent Charity Hosp, 64-66. Consult. sound ideas, Nat. Teenage Radio Series, 63-65. Co-founder & past pres, Foresight Club for Blind Prfnl, 65. Problem solving and reasoning; extinction of smoking habit; tonal esthetics. Address: Dept. of Psychology, John Carroll University, Cleveland, Ohio 44118.

DiCARA, DR. LEO VINCENT, b. New York, N.Y, June 23, 37. PHYSIOLOGICAL PSYCHOLOGY. B.A, City Col. New York, 60; State of N.Y. fel, N.Y. Univ, 63-65; Ph.D.(physiol. psychol), 65. Nat. Sci. Found. fel. psychol, Yale, 65-66; guest investr. behav. sci, Rockefeller Univ, 66-67, ASST. PROF, 67-68; PSYCHIAT, ALBERT EINSTEIN COL. MED, 68- U.S. Pub. Health Serv.

res. fel, 66-67; Am. Heart Asn. adv. res. fel, 67- Psychol. Asn. Conditioning of the autonomic nervous system and its role in the development of psychosomatic disease; hypothalmic regulation of food and water-intake; electrical stimulation of the brain. Publ: Co-auth, Instrumental learning of heart rate changes in curarized rats: shaping and specificity to discriminative stimulus, 61: 12-20 & The effect of hunger upon extinction in intracranial self stimulation, 63: 344-349, J. Comp. Physiol. Psychol; co-auth, Conditioning of vasomotor responses in curarized rats: learning to respond differentially in the two ears, Science, 159: 1485-1486. Address: Dept. of Psychiatry, Albert Einstein College of Medicine, Bronx, N.Y. 10461.

DICHTER, DR. ERNEST, b. Vienna, Austria, Aug. 14, 07; nat; m. 35; c. 2. PSYCHOLOGY. Ph.D, Vienna, 34. PRES, INST. MOTIVATIONAL RES, 45- Psychol. Asn; Sociol. Asn. Biology; development of motivational research and application of social sciences to commercial and political problems. Publ: Strategy of desire; Successful living; Handbook of consumer motivations, McGraw, 64. Address: Institute for Motivational Research, Inc, Albany Post Rd, Croton-on-Hudson, N.Y. 10520.

DICK, PROF. HARRY R(ICHARD), b. Henderson, Nebr, Aug. 22, 21; m. 51; c. 2. SOCIOLOGY. B.S, Nebraska, 52, M.A, 53; Ph.D, Washington State, 57. Instr. SOCIOL, Washington State, 56-57; Iowa, 57-58; asst. prof, North Texas State, 58-60, assoc. prof, 60-63; Inst. Logopedics, Kans. & Wichita State, 63-65; PROF, NORTH TEXAS STATE, 65- Sociol. Asn; Soc. Study Social Probs. Sociology of education. Publ: Co-auth, Adjustment of residents of two homes for the aged, Soc. Probs, winter 64; auth, The measurement of morale of handicapped children, Cerebral Palsy Rev, 11-12/64; Nature & significance of changes in the houseparent role in institutions for children, J. Health & Human Behav, fall 66. Address: Dept. of Sociology, North Texas State University, Denton, Tex. 76203.

DICK, DR. HERBERT WILLIAM, b. Chicago, Ill, Oct. 15, 20; m. 46; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. B.A, New Mexico, 46; M.A, Harvard, 48, Ph.D.(anthrop), 57. Asst. to dir. sci. anthrop, Colorado, 49-54; dir. mus, Trinidad State Jr. Col, 54-62; Nat. Sci. Found. grant, N.Mex, 62-63; ASSOC. PROF. ANTHROP, ADAMS STATE COL, 63- Asst. dir, Ft. Burgwin Res. Center, N.Mex, 61-66; Nat. Park Serv. grant, 63-64; Nat. Sci. Found. grants, 63-65. U.S.A.A.F, 42-45, Sgt. Pueblo Indian archaelogy; Spanish archaeology in the Southwestern United States; Southwestern ceramic analysis. Publ: The status of Colorado archaeology with bibliographic guide, Southwest. Lore, 53; Two rock shelters near Tucumcari, New Mexico, Bur. Am. Ethnol. Bull, 53; Monogr, The archaeology of Bat Cave, New Mexico, Sch. Am. Res, 65. Address: Dept. of Sociology & Anthropology, Adams State College, Alamosa, Colo. 81101.

DICK, COL. JOHN N, U.S.A.F. (RET), Ind. Eng, Mat. Sci, see 11th ed, Phys. & Biol. Vols.

DICK, DEAN R(AYMOND) DALE, b. July 16, 30; U.S. citizen; m. 55; c. 2. PSYCHOLOGY. B.S, Northwestern, 52; M.A, Missouri, 55, Ph.D.(psychol), 58. Res. assoc. PSYCHOL, Missouri, 57-58; asst. prof, Ft. Hays Kans. State Col, 58-60, assoc. prof, 60-62, prof, 62-66; PROF. & DEAN SCH. GRAD. STUDIES, WIS. STATE, EAU CLAIRE, 66- AAAS; Psychol. Asn. Concept formation, perception; learning; thinking; problem solving; sensory deprivation. Publ: Co-auth, Reliability of the map-match method for the assessment of navigator performance in radar bombing; auth, Formation and generalization of concepts as a function of similarity and amount of training, Am. J. Psychol, 12/63; co-auth, Generalization of paired associates and concepts, J. Gen. Psychol, 65. Address: School of Graduate Studies, Wisconsin State University, Eau Claire, Wis. 54701.

DICKEMAN, DR. MILDRED, b. Seattle, Wash, Oct. 12, 29. ANTHROPOLOGY. A.B, Michigan, 50; Ph.D, California, 58; Instr. ANTHROP, Oakland City Col.(Calif), 60-64; asst. prof, Kansas, 64-67; instr, Merritt Col, 67-68; ASSOC. PROF, CALIF. STATE COL. SONOMA, 68- Nat. Sci. Found. fel, New Guinea, 57-58; assoc. dir, Univ. Kansas Indian Ed. Proj, 66-67. Anthrop. Asn. Acculturation; Oceania; primitive art. Address: 1728 Allston Way, Berkeley, Calif. 94703.

DICKEN, PROF. CHARLES FRANCIS, b. Minneapolis, Minn, Nov. 12, 29. PSYCHOLOGY. B.A, Minnesota, 50, M.A, 51, Ph.D, 57. Sr. counsr, counseling & testing center & instr, Stanford, 57-58; from instr. to asst. prof. PSYCHOL, Chicago, 58-62; from asst. prof. to ASSOC. PROF, SAN DIEGO STATE COL, 62- Summer assessment officer, Peace Corps, 63-67. Psychol Asn. Personality assessment; psychotherapy. Publ: Connotative meaning as a determinant of stimulus generalization, Psychol. Monogr; Psychological assessment techniques, In: Progress in neurology and psychiatry; Good impression, social desirability, and acquiescence as suppressor variables, Ed. & Psychol. Measurement. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

DICKEN, PROF. SAMUEL N(EWTON), b. Fleming Co, Ky, Jan. 26, 01; m. 29; c. 1. GEOGRAPHY. A.B, Marietta Col, 24, hon. Sc.D, 64; Ph.D.(geog), California, 30. Instr. GEOG, Minnesota, 29-33, asst. prof, 33-41, assoc. prof, 41-45, PROF, 45-47; OREGON, 47- Geomorphologist, soil conserv. serv, U.S. Dept. Agr, 36-37; head, geog. & geol. br, U.S. Army Univ.(France), 45-46. Spec. consult, U.S. Army Air Force, 42-43; res. consult, Off. Strategic Servs, 44. Mem. cmt. geog, Nat. Res. Coun, 57-60. Asn. Am. Geog; Am. Geog. Soc. Karst lands; soil erosion and conservation; economic geography of Mexico add the Pacific Northwest; coastal geography. Publ: Human geography: The Pacific northwest; Physical changes of the Oregon coast. Address: Dept. of Geography, University of Oregon, Eugene, Ore. 97403.

DICKENS, ALBERT E(DWARD), b. Mt. Vernon, Ill, May 19, 04; m. 54. ECONOMICS. A.B, Indiana, 30, M.S, 39. Economist, Fed. Housing Admin, 39-41; dir. res, Chicago Planning Cmn, 41-45; chief, surplus property div, U.S. Dept. Army, Italy, 45-47; control br, Joint Export-Import Agency, Germany, 47-49; CONSULT. ECON, 49- Occasional lectr, univs. & prfnl. groups. Prin. economist, Int. Develop. Serv, Inc. & Prfnl. Skills, Inc; economist, Washington Bd. Trade. Econ. Asn; Statist. Asn. City, county, national, and regional economic and planning studies; area development; highway impact studies; foreign economic surveys; housing market analyses; shopping center and business location surveys; capital improvement and fiscal studies. Publ: The economic basis for county planning, Nat. Asn. County Officials, 61; The economic base for planning Chicago, J. Am. Inst. Planners, 62; Measuring blight, Soc. Residential Appraisers, 63. Address: 1627 K St. N.W, Washington, D.C. 20006.

DICKENS, DR. PAUL D, b. Lima, Ohio, Oct. 5, 96; m. 27; c. 2. ECONOMICS, INTERNATIONAL FINANCE. A.B, Hiram Col, 22, Ph.D, George Washington, 32. Chief, South-Asian Near East. Div, Off. Int. Finance, U.S. Dept. Treasury, 46-61; VIS. PROF. ECON, OKLAHOMA, 61- Econ. Asn; Acad. Econ. & Polit. Sci. Balance of international payments; economic developemnt of less-developed countries. Publ: Co-auth, Private foreign investments, Polit. Sci. Quart; Census of American-owned assets in foreign countries; Interest and dividends in the balance of international payments, J. Am. Statist. Asn. Address: 508 Foreman Ave, Norman, Okla. 73069.

DICKERSON, DR. DONALD J, b. Parsons, Kans, Oct. 20, 38; m. 62; c. 1. PSYCHOLOGY. B.A, Kans. State Col. Pittsburg, 61, M.S, 62; Ph.D.(psychol), George Peabody Col, 66. ASST. PROF. PSYCHOL, CONNECTICUT, 65- U.S.A, 60-61. AAAS; Asn. Ment. Deficiency; Psychol. Asn; Soc. Res. Child Develop. Learning processes in normal and mentally-retarded children; concept utilization. Publ: Performance of preschool children on three discrimination shifts, Psychonomic Sci, 66; Irrelevant stimulus dimensions and dimensional transfer in the discrimination learning of children, J. Exp. Child Psychol, 67; co-auth, Solution of simultaneous matching-to-sample and successive discrimination problems by retardates, Am. J. Ment. Deficiency, 68. Address: Box U-20, University of Connecticut, Storrs, Conn. 06268.

DICKERSON, DR. FRED M(ILLIKEN), b. Kenvil, N.J, Oct. 24, 07; m. 47. PSYCHOLOGY. B.S, Springfield Col, 32; M.A, Columbia, 48, Ed.D, 52. Voc. rehab. & ed. counsr, Harvard, 48-49; psychologist & voc. & ed. counsr, Brooklyn Col, 50-53; chief voc. counseling, training & adjustment sect, Vet. Admin. Regional Off, Hartford, Conn, 53-62, COUNSELING PSYCHOLOGIST, VET. ADMIN. DAY CENTER, NEWINGTON, 62-, ADMINSTR, 64- U.S.A, 43-45. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn. Rehabilitation of mentally ill through day center procedures; development of effective personality; interviewing techniques. Address: 21 Calvin Rd, West Hartford, Conn. 06110.

DICKERSON, PROF. O(LIVER) D(ONALD), JR, b. Philadelphia, Pa, Dec. 23, 25. ECONOMICS. B.S.E, Pennsylvania, 48, M.B.A, 51, Ph.D, 57; Gordon Mem. fel, 53-54; C.L.U, Am. Col. Life Underwriters, 52; C.P.C.U, Am. Soc. Chartered Property Casualty Underwriters, 58. Instr. ins, Pennsylvania, 51-57; assoc. prof. ins. & real estate, FLA. STATE, 57-66, PROF. RISK & INS, 66- Res. grants, Fla. State, summer 58, 60-65, Am. Risk & Ins. Asn, 64, 66, Relm Found, 67-68. Co-dir, Wilderness Camp, 52-56. Consult, Provident Indemnity Life Ins. Co, 64-, dir, 67- Ed, Annals, Soc. Chartered Property Casualty Underwriters, 60- Risk & Ins. Asn; fel. Casualty Actuarial Soc; Acad. Actuaries. Insurance; sociology; actuarial science; social security. Publ: Health insurance, Irwin, 3rd ed, 68; co-auth, A general risk theory, J. Risk & Ins, 9/64; auth, The 1965 social security amendments and private health insurance, Ann. Soc. Chartered Property Casualty Underwriters, 9/66. Address: Route 4, Box 599A, Tallahassee, Fla. 32301.

DICKERSON, DR. ROBERT E(DWARD), b. Jersey City, N.J, May 10, 21; m. 49; c. 5. ECONOMICS. B.S, Georgetown, 49; M.A, California, Los Angeles, 52, Danforth Found. fel, 56-57, Ph.D, 59. Asst. prof. ECON, Occidental Col, 53-59; HUMBOLDT STATE COL, 59-66, ASSOC. PROF, 66-, asst. dean acad. affairs, 61-66. Mem. Calif. State Col. curriculum team, Israel, 64-65; Humboldt State Col. rep. acad. senate, Calif. State Cols, 66- U.S.A.A.F, 42-46, Capt. Econ. Asn. History of economic doctrines; labor and land economics. Publ: Co-auth, The Los Angeles economy: its strengths and weaknesses, 54 & The cost of metropolitan growth, 58, South. Calif. Res. Coun; Humboldt county economic almanac, Humboldt State Col, 2nd ed, 67. Address: P.O. Box 396, Blue Lake, Calif. 95525.

DICKEY, PROF. ROBERT I(RVINE), b. New York, N.Y, Apr. 1, 09; m. 43; c. 2. ACCOUNTING. B.S, Wesleyan, 30; M.S, Illinois, 39; Ph.D, 42. Acct, Gen. Elec. Co, 30-38; asst. ACCT, COL. COMMERCE & BUS. ADMIN, ILLINOIS, 40-41, instr, 41-42, asst. prof, 46-47, assoc. prof, 47-51, PROF, 51-, asst. dean col, 46-53. Cost acct, Off. Price Admin, 42. Book Rev. ed, J. Acct, 59-67. Chmn. res. grants-in-aid cmt, Nat. Asn. Acct, 66-67. U.S.A, 42-46, Res, 46-, Lt. Col. Econ. Asn; Am. Acct. Asn; Nat. Asn. Acct. (v.pres, 67-68); Inst. Cert. Pub. Acct. Cost accounting; budgets; general accounting. Publ: Co-auth, Basic accounting; ed, Accountants' cost handbook. Address: 211 Commerce W, University of Illinois, Urbana, Ill. 61801.

DICKINSON, CHARLES L, b. Chicago, Ill, June 1, 05; m. 27; c. 3. BUSINESS ADMINISTRATION. Deep Springs Col, 23-35. Mgr, Deep Springs Ranch, 25-27; owner, Dickfield Farm, 28-46; mkt. specialist, N.Y. Metrop. Milk Prod. Asn, 37-40; ed, Coop. G.L.F. Exchange, 40-42, feed specialist, 42-46, asst. to mgr, 46-57; vis. lectr. mgt. agr. industs, grad. sch. bus, Cornell, 51-59; dir. res. & economist, Farm Equip. Inst, 59-62; assoc. dir, Food Res. Inst, Stanford, 62-65, asst. to v.pres, univ, 65-66; V.PRES, INST. HUMANE STUDIES, 66- Lectr, 50- Financial adv, Empire Livestock Mkt. Coop, 56-59; consult, Employers Mutual Wausau, 66-67. Private contractual relations between capital owners, managers and workers. Publ: Free men for better job performance, Inst. Humane Studies, 66; The farmer speaks, Syracuse Post Standard, 36; Agricultural engineering projects at land grant colleges, Farm Equip. Inst, 61. Address: 1134 Crane St, Menlo Park, Calif. 94025.

DICKINSON, DR. FRANK G(REENE), Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

DICKINSON, PROF. HARRY E(DWIN), b. Gadsden, Ala, July 28, 04; m. 37; c. 1. SOCIOLOGY. A.B, Howard Col, 26; Th.M, South. Baptist Theol. Sem, 29; Louisville, 36-37; A.M, George Peabody Col, 48, Ph.D, 50. Assoc. prof, Judson Col, 46-47: instr, George Peabody Col, 47-49; PROF. SOCIOL. &

HEAD DEPT, SAMFORD, 49- South. Fel. Fund grant, Utrecht, summer 56; vis. prof, Miss. State, 63-64, mem. staff soc. sci. res. center, 64-67. Fel. Sociol. Asn. Sociology of religion; community structure and involvement. Address: Dept. of Sociology, Samford University, Birmingham, Ala. 35209.

DICKINSON, DR. JOHN KELLOGG, b. Highland Park, Mich, Aug. 12, 18; m. 41; c. 1. SOCIOLOGY. Brown, 35-37, 38-39; Michigan, 39-40; spec. fel, Harvard, 57; Alexander von Humboldt stipendium, Marburg, 61-63, Ph.D.(sociol), 63. Statist. res. asst, off. tests, Harvard, 46-61, psychol. clin. annex, 50-53, grant study, 54-56; consult. statist. & sociol, Radcliffe Inst. Independent Study, 63-64; prof. SOCIOL, Benedict Col, 64-65; ASST. PROF, Springfield Col, 65-67; MASSACHUSETTS, BOSTON, 67- Consult, sch. census, Concord, Mass, 60. Sociol. Asn. Sociology history and epistemology; racism; educational sociology; socio-self criticism. Publ: German and Jew—the life and death of Sigmund Stein, Quadrangle, 10/67. Address: Dept. of Sociology, University of Massachusetts, Boston, Mass. 02115.

DICKINSON, PROF. ROBERT ERIC, b. Manchester, Eng, Feb. 9, 05; m. 41. GEOGRAPHY. B.A, Leeds, 25, Dipl.Ed, 26; M.A, London, 28, Ph.D.(geog), 31. Asst. lectr. GEOG, univ. col, Exeter, 26-28; univ. col, London, 28-32, lectr, 32-41, reader, 41-47; vis. prof, Syracuse, 47-48, prof, 48-59; prof. & head dept, Leeds, Eng, 58-67; PROF, ARIZONA, 67- Rockefeller traveling fel, Chicago, California & Columbia, 31-32, Europe, 36-37; Guggenheim fel, 57-58; vis. prof, California, Berkeley, 60-61; Nebraska, 62; Washington (Seattle), 63. R.A.F, 41-45. Asn. Am. Geog; fel. Royal Geog. Soc. Geography of Europe; history of geographic thought; distribution and functions of urban settlements in England. Publ: City and region, 64, City region in Western Europe, 67 & Makers of modern geography, 68, Humanities. Address: Dept. of Geography, Business & Public Administration, University of Arizona, Tucson, Ariz. 85710.

DICKINSON, DR. SHOI BALABAN, b. Council Bluffs, Iowa, Dec. 15, 24. SOCIOLOGY. A.B, California, Berkeley, 49, M.A, 51, Ph.D.(sociol), 55. OWNER, DICKINSON RES, INC, 65- Sociol. Asn. Motivational research with consumers relating to the use of products and services. Address: 114 E. 73rd St, New York, N.Y. 10021.

DICKINSON, PROF. Z(ENAS) CLARK, Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

DICKISON, DR. WILLIAM E(DWARD), b. Sault Ste. Marie, Mich, May 1, 22; m. 46; c. 1. ECONOMICS. B.S. & M.S, Mich. State, 46, Ph.D.(agr. econ), 50. Prof. econ, Air Force Inst. Tech, WRIGHT-PATTERSON AIR FORCE BASE, 57-60, opers. res. analyst, Hqs. Air Force Logistics Command, 60-61; asst. chief cost anal. br, aeronaut. systs. div, Air Force Systs. Command, 62-66, OPERS. RES. ANALYST, DEFENSE WEAPONS SYSTS. MGT. CENTER, 66- U.S.A.F, 42-45, Res, 45-, Lt. Col. Econ. Asn; Agr. Econ. Asn; Soc. Animal Sci; Soc. Agron; Oper. Res. Soc. Operations research; economic resources. Publ: The research budget, Accountants Digest. Address: 279 Blair Dr, Fairborn, Ohio 45324.

DICKMAN, DR. HAROLD R, b. Silverton, Ore, Oct. 28, 27; m. 47; c. 3. CLINICAL PSYCHOLOGY. B.A, Linfield Col, 51; fel. & M.A, Kansas, 54, Ph.D. (psychol), 56. Instr. psychol, Oregon, 56-57; staff clin. psychologist, Vet. Admin. Hosp, Roseburg, Ore, 57-59, res. psychologist, 59-60, chief psychol. serv, 60-66; CHIEF PSYCHOL. FOR PSYCHIAT. HOSPS, VET. ADMIN. CENT. OFF, WASH, D.C, 66- Adj. assoc. prof, Oregon, 64-66. Consult, ment. health training prog, State Wash, 65; div. ment. health, State Ore, 65. Outstanding performance award, Vet. Admin, 60 & 63; commendation, Hosp. Dirs, 66. U.S.M.C, 45-46. Psychol. Asn. Perception of human action; group therapy and group processes; institutional organization and its relationship to therapeutic effectiveness. Publ: Co-auth, Manual of group therapy, 60 & auth, Essentials in building a ward program, 65, Vet. Admin; The perception of behavioral units, In: The stream of behavior, Appleton, 63. Address: 614 Crocus Dr, Rockville, Md. 20850.

DICKMAN, DR. KERN WILLIAM, b. Freeport, Ill, May 29, 14; m. 50. PSYCHOMETRICS, COMPUTERS. B.S, Illinois, 44, M.S, 47, Ed.D, 60. Asst. math, Illinois, 46-47; instr, Britt Jr. Col, 47-49; asst. ed, ILLINOIS, URBANA, 49-52, psychol, 52-58, digital comput. lab, 58-60, res. assoc, digital comput. lab. & dept. sociol, 60-62, ASST. DIR. STATIST. SERV. UNIT, 62-, ASSOC. PROF. SOCIOL. & COMPUT. SCI, 67-, asst. prof, 62-67. U.S.A, 42-46. Psychomet. Soc; Asn. Comput. Mach. Computer applications in the behavioral sciences; social science statistics. Publ: Manual of computer programs for statistical analysis, SSUPAC, 64; Computer program for the generation of English messages, In: Tables of transitional frequencies of English phonemes, Illinois, 64; Principles of computer programming, Proc. 1964 Clin. Library Applns. Data Processing, 65. Address: 138 Digital Computer Lab, University of Illinois, Urbana, Ill. 61801.

DICKOFF, DR. JAMES WILLIAM, Philos, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

DICKSON, DR. DAVID FRANKLIN, b. St. Louis, Mo, Jan. 20, 33; m. 56; c. 3. LAW, POLITICAL SCIENCE. A.B, Princeton, 54, LL.B, Yale, 59; Nat. Defense Ed. Act fel, Fla. State, 63-66, M.S, 64, Ph.D.(govt), 66. Assoc, Watts, Oakes & VanderVoort, N.Y, 61-63; res. assoc. polit. sci, inst. govt. res, FLA. STATE, 65-66, asst. prof. LAW, COL. LAW, 66-68, ASSOC. PROF, 68- Mem, Fla. Law Revision Cmn, 67-70. U.S.A, 54-56, Res, 56-, Maj. Polit. Sci. Asn; Bar Asn. Public law; state constitutional revision. Publ: Proposed amendments to the Florida constitution of 1885, 66 & Commepts on the drafting of a new constitution for Florida, 66, Fla. State Univ. Address: College of Law, Florida State University, Tallahassee, Fla. 32306.

DICKSON, PROF. STANLEY, Speech Path, see 11th ed, Phys. & Biol. Vols.

DICKSON, DR. THOMAS I(NCHES), JR, b. New York, N.Y, Oct. 17, 23; m. 48. POLITICAL SCIENCE. B.A, Texas, 43, fel, 46-51, M.A, 48, Ph.D.(polit. sci), 51. Res. assoc, Legis. Coun, State of Tex, 50-51; v.consul, Am. Embassy, Havana, Cuba, U.S. DEPT. STATE, 53-55, Am. Consulate, Port Said, Egypt, 56-58, consul & econ. officer, Am. Consulate Gen, Naples, Italy, 58-61, intel. res. specialist, D.C, 61-65, chief Uruguayan polit. affairs, 65-66, CONSUL & PRIN. OFFICER, AM. CONSULATE, COCHABAMBA, BOLIVIA, 66- U.S.M.C, 43-46, Lt. Col. Polit. Sci. Asn; Econ. Asn. International relations; comparative government; development economics. Publ: Co-auth, A survey of taxation in Texas, Tex. Legis. Coun, 51-52. Address: U.S. Dept. of State, Washington, D.C. 20521.

DICKSON, DR. WILLIAM MACLEAN, b. Lordsburg, N.Mex, Dec. 15, 25; wid; c. 3. POLITICAL SCIENCE, BUSINESS ADMINISTRATION. B.A, Minnesota, 49; M.S, Utah State, 53; Ph.D.(polit. sci), Stanford, 62. Orgn. analyst, Lockheed Missile & Space Co, 60-63; asst. prof. bus. admin, Utah State, 62-63; dir. inst. soc, econ. & govt. res. & dean col. bus, econ. & govt, Alaska, 63-65; cmnr. econ. develop, cabinet, State Alaska, 65-66; ASSOC. PROF. POLIT. SCI, WEST. WASH. STATE COL, 67- U.S.A.R, 43-46, U.S.A, 49-55, Capt. AAAS; Polit. Sci. Asn; Arctic Inst. N.Am. Theory of new organization; committee behavior; middle north behavior; administrative or leadership behavior; communication theory for political behavior. Publ: Co-auth, Manpower in war & peace, Pub. Admin. Rev, autumn, 59 & Appointive committees, Bus. Rev, 10/64. Address: Dept. of Political Science, Western Washington State College, Bellingham, Wash. 98225.

DIEBOLD, DR. A(LBERT) RICHARD, JR, b. New York, N.Y, Jan. 20, 34; m. 53, 65; c. 2. LINGUISTICS, ANTHROPOLOGY. B.A, Yale, 56, Ph.D. (ling, soc. anthrop, psychol), 61. Asst. anthrop, Yale, 57-58 & 60-61, psychiat, 58-59; instr. soc. rels. & res. assoc, lab. soc. rels, Harvard, 61-62, asst. prof. soc. rels, 62-66, ling, 63-66; acting assoc. prof. anthrop, STANFORD, 66-68, ASSOC. PROF. ANTHROP. & LING, 68- Fel, Center Adv. Study Behav. Sci, 67-68. Anthrop. co-ed, Bobbs-Merrill Reprint Series Soc. Sci, 62- Fel. Anthrop. Asn; Psychol. Asn; Ling. Soc. Am. Interdisciplinary research in and the integration of linguistic, psychological and anthropological approaches to the study of language and verbal, as well as nonverbal, behavior. Publ: A survey of psycholinguistic research, 1954-1964, In: Psycholinguistics: a survey of theory and research problems, 2nd ed, 65 & Anthropology and the comparative psychology of communicative behavior, In: Animal communication: techniques of study and results of research, 68, Indiana Univ; The consequences of early bilingualism in cognitive development and personality formation, In: The study of personality: an interdisciplinary appraisal, Holt, 68. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

DIEBOLD, WILLIAM, JR, Int. Econ, see 10th ed, Soc. & Behav. Vols.

DIEDERICHS, JOHN K, Soc. Sci, Econ, see 10th ed, Soc. & Behav. Vols.

DIEHL, S(AYLOR) FLORY, b. Nokesville, Va, Nov. 8, 19; m. 46; c. 2. MATHEMATICAL STATISTICS. A.B, Bridgewater Col, 43. Agr. statistician, U.S. Bur. Census, 45-47; air intel. specialist, U.S. Dept. Air Force, 49-51; commodity indust. analyst, Nat. Prod. Authority, 51-53; head work measurement br, off. indust. rels, Exec. Off. Secy. Navy, 54-57; supvry. statistician, U.S. Bur. Census, 57-62; ED. RES. SPECIALIST, U.S. OFF. ED, 62- N.Y. Acad. Sci. Address: 11505 Carroll Court, Upper Marlboro, Md. 20870.

DIEKEMA, DR. ANTHONY J, b. Zeeland, Mich, Dec. 3, 33; m. 57; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Calvin Col, 56; M.A, Mich. State, 58, Ph.D.(sociol), 65. Asst. dir. student housing, Mich. State, 57-59, student admission, 59-62, asst. registr. eval. & res, 62-64; asst. dean STUDENT ADMISSIONS, MED. CENTER, ILLINOIS, 64-66, DIR, 66-, ASST. PROF. SOCIOL. & ED, 66- Sociol. Asn; Soc. Appl. Anthrop. Relationship of attitudes and behavior; attitude change in student environment; student selection and performance in educational environment. Address: Dept. of Sociology & Education, University of Illinois, 901 S. Wolcott St, P.O. Box 6998, Chicago, Ill. 60680.

DIEM, DR. AUBREY, b. Detroit, Mich, Sept. 9, 31; m. 51; c. 2. GEOGRAPHY. B.A, Wayne State, 53; scholar, Clark, 53-54, M.A, 56; Ph.D, Michigan, 61. Instr. GEOG, overseas prog, Maryland, 55; Wayne State, 56-57; asst. prof, State Univ. N.Y. Col. Potsdam, 57-60; Waterloo Univ. Col, 60-62; PROF, WATERLOO, 62- Alternate Fulbright award, 62-63; mem. for. area fel. prof, 65; Can. Coun. fel, 68-69. Asn. Am. Geog; Am. Geog. Soc; Can. Asn. Geog; Brit. Geog. Asn. Geography of Europe and the Mediterranean basin; land reform and reclamation in underdeveloped regions; political geography; urban development problems of five European cities; Amsterdam, Copenhagen; London, Stockholm, Zürich. Publ: An evaluation of land reform and reclamation in Sicily, 63 & An alternative to unplanned urban growth: the case of Stockholm, 65, Can. Geogr; Urban development problems of the ports of Rotterdam and Amsterdam, Cahiers of Géographie de Québec, 4/67. Address: Dept. of Geography, University of Waterloo, Waterloo, Ont, Can.

DIEMER, PROF. RICHARD DEAN, b. Pekin, Ill, Mar. 2, 24; m. 48; c. 2. SOCIOLOGY. Th.B, St. Paul Bible Col, 49; A.B, Taylor, 54; M.A, Ball State, 56; Ph.D.(sociol), Purdue, 66. PROF. SOCIOL, TENNESSEE TECH, 62-, ACTING CHMN, 67- Mem, Groves Conf. Marriage & Family. Sociol. Asn; Asn. Marriage Counsr; Nat. Coun. Family Rels. Family research. Address: Dept. of Sociology, Tennessee Technological University, Cookeville, Tenn. 38501.

DIENSTEIN, PROF. WILLIAM, b. Chicago, Ill, May 9, 09; m. 47. SOCIOLOGY, CRIMINOLOGY. A.B, Stanford, 31, Ph.D, 59; M.A, California, 39. Teacher, pub. schs, 35-41; asst. prof. SOC. SCI. & CRIMINOL, FRESNO STATE COL, 46, assoc. prof, 47-50, 53-60, PROF, 60-, chmn. dept. criminol, 46, 47-50. Mem. adv. cmt, Fresno State Ment. Hyg. Clin, 56-65, chmn, 62; Bd. Ed, City Unified Sch. Dist, 61-, pres, 65-66, clerk, 66-; mem, Gov. Spec. Study Cmn. Juvenile Justice, 57-61; sci. cmt, Quaderni di Criminologia Clinica, Ministry of Justice, Italy, 59- U.S.A, 42-46, 50-52, Maj. Fel. Soc. Criminol. (pres, 53-54, secy-treas, 56-59). Crime, criminals and crime control, collective behavior. Publ: Are you guilty?; Technics for the crime investigator; How to write a narrative investigation report, C.C. Thomas, 64. Address: Dept. of Sociology, Fresno State College, Fresno, Calif. 93726.

DIER, PROF. RAYMOND, b. Brooklyn, N.Y, Oct. 28, 17; m. 43. ECONOMICS. B.A, Brooklyn Col, 41; M.B.A, N.Y. Univ, 43, Ph.D.(econ), 54, J.D, 62; B.D, Union Theol. Sem, 46. Instr. econ, Wash. Sq. Col, N.Y. Univ, 45-49; Am. Inst. Banking, 46-58; asst. prof. FINANCE, RUTGERS, 58-64, ASSOC. PROF, 64- Instr, Iona Col, 56-58; faculty mem, Stonier Grad. Sch. Banking, 64- Econ. Asn; Finance Asn. Corporation finance. Address: 763 Ocean Parkway, Brooklyn, N.Y. 11230.

DIERICKX, DR. C. WALLACE, b. Ghent, Minn, Aug. 13, 21. GEOGRAPHY. B.A, St. John's (Minn), 46; Fribourg, 49; M.A, Florida, 52; Carnegie fel, Northwestern, 53-54, Ph.D, 55. PROF. GEOG, NORTHEAST. ILL. STATE COL, 55- Asn. Am. Geog; Geog. Soc; African Studies Asn. Africa, tropical agriculture and land utilization. Address: 6747 S. Bennett Ave, Chicago, Ill. 60649.

DIERS, DR. CAROL JEAN, b. Bellingham, Wash, July 16, 33. PSYCHOLOGY. B.A.(phys. sci) & B.A.(math. sci), West. Wash. State Col, 56; M.A, British Columbia, 58; U.S. Pub. Health Serv. fel, Washington, 60, Ph.D.(psychol), 61. Teacher, pub. schs, Wash, 56-57 & 58-59; instr. PSYCHOL, Olympic Col, 61-63; asst. prof, WEST. WASH. STATE COL, 63-65, ASSOC. PROF, 65- AAAS; Psychol. Asn; Inter-Am. Soc. Psychol. Personality testing; cross-cultural comparisons in personality; developmental and comparative armadillos. Publ: Social desirability and acquiescence in response to personality items, J. Consult. Psychol, 64; Social desirability ratings of personality items by three sub-cultural groups, J. Soc. Psychol, 65. Address: Dept. of Psychology, Western Washington State College, Bellingham, Wash. 98225.

DIESSLIN, DR. HOWARD G(USTAF), b. La Porte, Ind, Mar. 16, 21; m. 44; c. 3. AGRICULTURAL ECONOMICS. B.S, Purdue, 42, M.S, 47, Ph.D, 49. Asst. prof. agr. econ, PURDUE, 48-52, assoc. prof, 52-55, asst. managing dir. farm found, 55-57, assoc. managing dir, 57-62, DIR. COOP. EXTEN. SERV, 62- Mem. bd. dirs, Cent. Bank Coop, D.C, 64-67. U.S.N, 43-46, Lt.(jg). Farm Econ. Asn. Agricultural finance and farm management; agricultural policy; agricultural equipment financing. Publ: Co-ed, Agricultural adjustment problems in a growing economy, Capital and credit needs in a changing agriculture & Agricultural supply functions: estimating techniques and interpretations. Address: Cooperative Extention Service, Purdue University, Lafayette, Ind. 47907.

DIETRICH, ALBERT G(ILES), Sociol, see 10th ed, Soc. & Behav. Vols.

DIETRICH, DR. DONALD H(UGHES), Psychol, see 10th ed, Soc. & Behav. Vols.

DIETRICH, DR. ETHEL B(ARBARA), b. Racine, Wis, Oct. 16, 91. ECONOMICS. A.B, Vassar Col, 13; A.M, Wisconsin, 14, Ph.D, 21; L.H.D, Mt. Holyoke Coll, 62. Asst. prof. econ, Mt. Holyoke Col, 21-23, assoc. prof, 23-30, prof. econ. & sociol, 30-41; economist & econ. adv, Econ. Defense & Bd, Econ. Warfare-For. Econ. Admin, 41-45; adv. econ, trade & commerce br, Off. Mil Govt, Germany, 46-47, dep. for. trade negotiations, 47-49; dir. trade div, off. spec. res, Econ. Coop. Admin, 49-51, U.S. Mission to NATO & European Regional Orgns, France, 51-61; ADV, BUR. AFRICAN AFFAIRS, U.S. DEPT. STATE, 61- Res. asst, United Typothetae Am; res, Int. Labor Off, Geneva; U.S. Mission, Rabat, Morocco, 65-66. Nat. Civil Serv. award, 60. Spec. investr, women's indust. serv. sect, U.S. Ord. Dept, 18. World trade; Far Eastern trade of the United States. Address: 351 Linden St, Winnetka, Ill. 60093.

DIETTRICH, PROF. SIGISMOND DE R(UEDESHEIM), b. Budapest, Hungary, Feb. 7, 06; nat; m. 32; c. 1. GEOGRAPHY. Dipl, Budapest, 28; fel, Clark, 28-31, Ph.D.(geog), 31; Chicago, 29; D.Sc.(econ), Royal Hungarian Palatine Joseph Univ, Hungary, 36. Instr. econ. geog, Florida, 31-35, asst. prof. geog, 35-41, assoc. prof, 41-43, acting head geog. sect, div. geog. & geol, 42-44, acting chmn, 44-45; geogr. & asst. to chief, U.S. Dept. State, D.C, 44-45; prof. & chmn. div. geog. & geol, Florida, 45-48, head prof. geog, 48-59; sr. Fulbright prof, Dacca, Pakistan, 59-61; geogr, 61-62; chmn. div. social sci, INTER-AM. UNIV. P.R, 62-66, dept. geog, 66-68, CHMN. SERV. DEPTS, 68-, prof. int. rels, summer, 62. Vis. lectr, Royal Hungarian Palatine & acting dir, inst. geog, Joseph Univ, Hungary, 35; regional geogr, U.S. Bd. Geog. Names, 44; educationist, U.S. Dept. State, D.C, 45-50; Int. Geog. Union traveling grant, Int. Geog. Cong, Brazil, 56; U.S. Ed. Found. & Asia Found. res. grants, 60; vis. prof, Edinburgh, 61; res. scholar, Junta de Planificacion, P.R, 61; summer, vis. res. prof, Bonn, 61. Int. chancellor for P.R, 63- Consult, Off. Strategic Servs, 43; Nat. Lexicographic Bd, Ltd, N.Y, 52- Mem, Governor's Cmt. Fla. Resource Use Ed, 45-49. Asn. Am. Geog; Coun. Geog. Ed; Acad. Polit. & Soc. Sci; Hungarian Geog. Soc. Geography of Puerto Rico; problems of international commodity agreements; resources of the South; economic and population problems in southeast Asia; government planning in southeast Asia, northwest Europe and Puerto Rico. Publ: Some geopolitical aspects of the Indo-Pak Subcontinent; United Asia, vol. XV, no. 3, 63. Address: Dept. of Geography, Inter-American University, P.O. Box 1293, Hato Rey, P.R. 00919.

DIETZ, PROF. ARTHUR T(OWNSEND), b. Mt. Vernon, N.Y, Oct. 30, 23; m. 46; c. 3. ECONOMICS. B.A, Wesleyan, 46; Wilson fel, Princeton, 46-47, M.A, 48, Ph.D, 53. Instr. econ, Princeton, 48-49; Wesleyan, 49-53, asst. prof, 53-54; bus. admin, EMORY, 54-56, assoc. prof, 56-59, PROF. BUS. ADMIN. & DIR. MASTERS DEGREE IN BUS. ADMIN. PROG, 59- Vis. asst. prof, Amherst Col, 54. U.S.A, 43-45. Econ. Asn; Finance Asn. Business finance, investments, business conditions and forecasting; public control. Publ: Introduction to the antitrust laws; Corporate mergers; retrospective and prospective; J. Pub. Law; Economics and finance as a basis, In: Education for business beyond high school. Address: 1072 Mason Woods Dr. N.E, Atlanta, Ga. 30329.

DIETZ, DR. PETER O(WEN), b. Bronx, N.Y, Apr. 20, 35; m. 58; c. 2. BUSINESS FINANCE. A.B, Dartmouth Col, 57, M.B.A, 58; Ford Found. fel, Columbia, 58-60, Ph.D, 65. Res. asst. pension funds, Nat. Bur. Econ. Res, 59; instr. FINANCE, NORTHWESTERN, 60-64, asst. prof, 64-67, ASSOC. PROF, 67- Finance Asn; Econ. Asn. Economic aspects of pension funds; measuring investment performance of security portfolios. Publ: Pension funds: measuring investment performance, Macmillan, 66; Investment goals: a key to measuring performance of pension funds, Financial Analysts J, 4/68; Components of a measurement model: rate of return, risk, and timing, J. Finance, 5/68. Address: Dept. of Finance, Northwestern University, Evanston, Ill. 60201.

DIETZE, PROF. ALFRED G(ODFREY), b. Trail Run, Ohio, July 14, 99; m. 24; c. 2. PSYCHOLOGY. A.B, Washington, 21; A.M, Pennsylvania, 26; B.D, Eden Theol. Sem, 28; Ph.D.(psychol), Pittsburgh, 30. Instr. English & German, Elmhurst Col, 21-22; PSYCHOL, Pittsburgh, 26-30, asst. prof, 30-45, assoc. prof, 45-51, prof, 51; assoc. prof, MICH. STATE, 51-58, PROF, 58- AAAS; fel. Psychol. Asn. Social attitudes; semantics of attitudes; memory. Address: 4714 North Van Atta Rd, Okemos, Mich. 48864.

DIETZE, PROF. GOTTFRIED, b. Kemberg, Germany, Nov. 11, 22. POLITICAL SCIENCE, LAW. Dr. Jur, Heidelberg, 49; A.M. Princeton, 51, Ph.D. (polit), 52; S.J.D, Virginia, 61. Instr. POLIT. SCI, Dickinson Col, 52-54; asst. prof, HOPKINS, 54-58, assoc. prof, 58-62, PROF, 62- Vis. prof, Heidelberg, 56, 58-60; Brooking Inst, 60-61, 67. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Constitutionalism; comparative government; legal and political theory. Publ: Uber Formulierung Der Menschenrechte, Duncker, 56; The federalist, Johns Hopkins, 60; In defense of property, Regnery, 63. Address: Dept. of Political Science, Johns Hopkins University, Baltimore, Md. 21218.

DIEZ, PROF. WILLIAM E(DWIN), b. Chicago, Ill, Feb. 14, 05; m. 50. POLITICAL SCIENCE. Ph.B, Chicago, 36, Ph.D, 45. Asst. dir. & dir, League Nations Asn, Ill, 36-40; secy. study groups, Coun. For. Rel, N.Y, 42-46; assoc. prof. GOVT, ROCHESTER, 46-55, PROF, 55- Polit. Sci. Asn; African Studies Asn; Int. African Inst. Government and politics in Africa. Address: Dept. of Political Science, University of Rochester, Rochester, N.Y. 14620.

DIGGORY, PROF. J(AMES) C(LARK), b. Philadelphia, Pa, Nov. 4, 20; m. 44; c. 2. PSYCHOLOGY. A.B, King's Col.(Del), 42; A.M, Pennsylvania, 43, Ph.D.(psychol), 48. Asst. instr. PSYCHOL, Pennsylvania, 42-44, instr, 44-48, asst. prof, 48-56, assoc. prof, 56-66; PROF. & CHMN. DEPT, CHATHAM COL, 66- Fel, Center Sci. Study Suicide, Los Angeles, Calif, 64-65. AAAS; Psychol. Asn; Psychonomic Soc. Motivation; personality; social psychology. Publ: Self-evaluation: concepts and studies, Wiley, 66. Address: Chatham College, Woodland Rd, Pittsburgh, Pa. 15232.

DIGGS, DR. ALFRED SCOTT, b. Oliver Springs, Tenn, Aug. 11, 13; m. 41. PSYCHOLOGY. A.B, Northern Arizona, 40; M.A, Denver, 53, Ph.D.(psychol), 55. Ed. dir, U.S. Air Force, Guam, 44-52, Scotland, 57-61; res. analyst, U.S. Air Force Acad, 55-57; asst. prof. PSYCHOL, Hawaii, 62; ASSOC. PROF, Wis. State, Superior, 63-66; WESTERN NEW MEXICO, 66- Psychol. Asn. Study of granting of academic credit for military service and effects on student veteran. Address: Dept. of Psychology, Western New Mexico University, Silver City, N.Mex. 88061.

DIGGS, PROF. IRENE, b. Monmouth, Ill, Apr. 13, 06. ANTHROPOLOGY. A.B. Minnesota, 28; A.M, Atlanta, 33; Roosevelt fel, Havana, 43-44; Ph.D, Havana. Cuba, 45. Asst. SOCIOL, Atlanta, 36-43; PROF, MORGAN STATE COL, 47- Exchange scholar, div. int. exchange of persons, U.S. Dept. State, Montevideo, Uruguay; 46; guest prof, Bard Col, 50. Fel. AAAS; fel. Anthrop. Asn; Int. Cong. Americanists. Negro in the New World; African cultures. Publ: Negro in the viceroyalty of the Rio de la Plata, J. Negro Hist; Kenya and the Mau Mau, Chicago Jewish Forum; Antonio Francisco Lisboa, Mag. Art. Address: Dept. of Sociology, Morgan State College, Baltimore, Md. 21212.

DIGGS, PROF. MARY HUFF, Sociol, see 10th ed, Soc. & Behav. Vols.

DIGIAMMO, DR. JOHN J(OSEPH), b. North Bergen, N.J, Sept. 21, 31; m. 59. CLINICAL PSYCHOLOGY. B.S, Seton Hall, 53; fel, Col. William & Mary, 54-55, M.S, 55; Ph.D.(clin. psychol), Ottawa, 62. Clin. psychologist, Fergus Falls State Hosp, Minn, 58-59; chief psychologist, St. Lawrence State Hosp, Ogdensburg, N.Y, 61-63; supv. psychologist, St. Lawrence County Ment. Health Clin, Potsdam, 63-64; staff psychologist, Albany Vet. Admin. Hosp, N.Y, 64-65; asst. dir. psychol. serv, N.Y. State Dept. Ment. Hyg, 65-66; STAFF PSYCHOLOGIST, ALBANY VET. ADMIN. HOSP, 66- Vis. lectr, Russell Sage Col, 65- Consult, State Univ. N.Y. Potsdam, 63-64. Psychol. Asn. Quantification of projective techniques; physical and psychological correlates of anxiety, evaluation of pre-alcoholic personality and prognostic signs of success in therapy of alcoholic addiction. Publ: New weighted H-T-P score as a measure of abstraction, J. Clin. Psychol, 1/61. Address: Box 168 R.D, Chatham, N.Y. 12037.

Di GIOVANNI, DR. JOAN FIMBEL, b. Jersey City, N.J, June 18, 35; m. 56. EXPERIMENTAL PSYCHOLOGY. B.A, Fla. South. Col, 54; M.A, Columbia, 55; Ph.D, Baylor, 61. Asst. head res. counseling, Illinois, 55-57; asst. psychol, Baylor, 58-61; asst. prof, Old Dom. Col, 61-63; coordinator field work rehab. counseling, Springfield Col, 63, asst. prof. PSYCHOL, 63-65; WEST. NEW ENG. COL, 65-66, ASSOC. PROF, 66-, DIR. COUNSELING SERV, 65- Res. assoc, Massachusetts, 63; instr, sch. nursing, Springfield Hosp, 64-66. Psychol. Asn. Learning; physiological psychology. Address: 910 Plumtree Rd, Springfield, Mass. 01119.

Di GIOVANNI, DR. PHILIP, b. Passaic, N.J, Oct. 17, 27; m. 56. CLINICAL PSYCHOLOGY. B.A, Maryland, 53; Ph.D, Illinois, 58. CLIN. PSYCHOLOGIST, Vet. Admin. Hosp, Danville, Ill, 55-58; Waco, Tex, 58-61; Vet. Admin. Center, Kecoughtan, Va, 61-62; VET. ADMIN. OUTPATIENT CLIN, 62- U.S.A, 46-49, Sgt. Psychol. Asn. Individual and group psychotherapy. Address: 910 Plumtree Rd, Springfield, Mass. 01119.

DIGMAN, PROF. JOHN M(URRAY), b. Milwaukee, Wis, June 14, 23; m. 45; c. 3. PSYCHOLOGY. Ph.D.(psychol), Ohio State, 51. Asst. prof. PSYCHOL, HAWAII, 51-57, assoc. prof, 57-64, PROF, 64- Nat. Sci. Found. sci. faculty fel, 57-58. U.S.A, 43-46. Fel. AAAS; Psychol. Asn. Human learning; attitudes; political behavior; child personality. Publ: Handbook of multivariate experimental psychology, Rand McNally, 66; Interpretation of an election by means of obverse factor analysis; Principal dimensions of child personality as inferred from teachers' judgments. Address: Dept. of Psychology, University of Hawaii, Honolulu, Hawaii 96822.

DIGNAN, SISTER MARY HOWARD, b. Chicago, Ill, May 19, 24. CLINICAL PSYCHOLOGY. B.A, Mundelein Col, 47; M.A, Catholic Univ, 56; Ph.D.(psychol), Fordham, 63. Exec. dir. student relief campaign, Bishop's Relief, 48-50; instr. econ, CLARKE COL, 52-53, asst. prof. PSYCHOL, 54-59, ASSOC. PROF, 63-; STAFF PSYCHOLOGIST, DUBUQUE COUNTY MENT. HEALTH CENTER, 66- Psychol. Asn. Measurement and study of ego identity; construction and validation of an identity scale. Publ: Co-auth, Some

correlates of adjustment, J. Psychol, 64; auth, Maternal identification and ego identity, J. Personality & Soc. Psychol, 65; The ego identity of the modern religious woman, J. Relig. & Health, 67. Address: Dept. of Psychology, Clarke College, Dubuque, Iowa 52001.

DIKE, PROF. GEORGE K(IMBALL), b. Grafton, N.Dak, Apr. 6, 18; m. 50; c. 5. AGRICULTURAL ECONOMICS. B.S, N.Dak. State, 41; M.S, Minnesota, 46; Ph.D.(agr. econ), Mich. State, 61. County agent, agr. exten, N.Dak. State, 48-50; dist. mkt. agent, MICH. STATE, 55-60, asst. prof. AGR. ECON, 60-66, ASSOC. PROF, 66-, DEP. DIR. CONSORTIUM STUDY NIGERIAN RURAL DEVELOP, 65- U.S.M.C, 41-46, 50-55, Res, 55-, Lt. Col. Econ. Asn; Farm Econ. Asn. Aggregate economics; business management of agricultural market agencies; agricultural policy. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

DILGER, PROF. WILLIAM C, Vert. Zool, see 11th ed, Phys. & Biol. Vols.

DILL, DR. WILLIAM R(ANKIN), b. Sewickley, Pa, Aug. 18, 30; m. 53; c. 4. SOCIAL PSYCHOLOGY. A.B, Bates Col, 51; M.S, Carnegie Inst. Tech, 53, Ph.D.(indust. admin), 56; Fulbright scholar, Oslo, 53-54. Instr, indust. admin, grad. sch. indust. admin, Carnegie Inst. Tech, 55-56, asst. prof, 56-60, assoc. prof, 60-65, assoc. dean, sch, 62-65, asst. dean, 59-62; PROG. DIR. ED. RES. & DEVELOP, DATA PROCESSING DIV, INT. BUS. MACH. CORP, 65- Ford Found. faculty fel, 64-65. Psychol. Asn; Asn. Comput. Mach; Inst. Mgt. Sci. Managerial career development; organizational theory, structure and decisions; educational technology and administration. Publ: The new managers; co-auth, The Carnegie Tech management game, 64. Address: 101 Greenridge Ave, White Plains, N.Y. 10605.

DILLABER, PHILIP A(RTHUR), b. Springfield, Mass, Aug. 24, 22; m. 46; c. 4. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Am. Int. Col, 49; M.B.A, Indiana, 50; Michigan, 50-51. Exam. comptroller, tech. training, U.S. Dept. Air Force, 52-53; mgt. analyst, hq, Fifth U.S. Army, 54-62, prog. analyst, comptroller, hq, U.S. Continental Army Command, 62-67, admin. officer anti-ballistic missiles, U.S. Army Nike-X Syst. Off, Off. Chief Res. & Develop, 67-, PROG. ANALYST, ASST. CHIEF STAFF FORCE DEVELOP, U.S. ARMY, 67- Lectr, Indiana, 55-57; guest lectr, Purdue, 59-61. U.S.A, 43-46. Econ. Asn; Mgt. Asn; Soc. Pub. Admin. Role of government expenditures and financial management within the federal government, especially the United States Army as a part of the United States Department of Defense. Address: 3003 N. Arkendale St, Woodbridge, Va. 22191.

DILLARD, PROF. DUDLEY, b. Ontario, Ore, Oct. 18, 13; m. 39; c. 2. ECONOMICS. B.S, California, 35, Ph.D, 40; vis. scholar, Harvard, 39; Columbia, 40. Instr. ECON, Colorado, 40-41; Delaware, 41-42; asst. prof, MARYLAND, 42-45, assoc. prof, 45-47, PROF, 47-, HEAD DEPT, 51- Economist, U.S. Govt, 42-44; econ. specialist, U.S. Army, 45-46; vis. assoc. prof, Columbia, 48-50. Econ. Asn; Econ. Hist. Asn; Asn. Univ. Prof. Economic theory; economic development; history of economic thought. Publ: Economics of John Maynard Keynes; Economic development of the north Atlantic community, Prentice-Hall, 67; Capitalism, In: Encyclopaedia Britannica. Address: Dept. of Economics, University of Maryland, College Park, Md. 20740.

DILLE, PROF. E(LLWOOD) O(AKLEY), b. Kenton, Ohio, Apr. 4, 01. ECONOMICS. B.S, Ohio State, 22, M.B.A, 30, Ph.D, 42. PROF. MKT, Ariz. State Col, 37-38; TENNESSEE, 38- Sect. chief mkt. & prin. economist, War Prod. Bd, 42-45. Sales management for wholesalers; merchandising; operating cost. Publ: Patronage motives of retailers; Marketing bank services; How to get ahead in a small business. Address: College of Business Administration, University of Tennessee, Knoxville, Tenn. 37916.

DILLEHAY, DR. RONALD CLIFFORD, b. Nov. 2, 35; U.S. citizen; m. 54; c. 2. SOCIAL PSYCHOLOGY. A.B, California, Berkeley, 57, Ph.D.(psychol), 62. Res. behav. scientist, sch. pub. health, California, Berkeley, 60-62, lectr. & asst. res. behav. scientist, 62-64, lectr. psychol, 63; from asst. prof. to assoc. prof. behav. sci. & psychol, Kentucky, 64-66; ASSOC. PROF. PSYCHOL, TEXAS CHRISTIAN, 66- Consult, Calif. Dept. Pub. Health, 63- Psychol. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues. Influence of attitudes and beliefs upon other psychological processes; persuasion and attitude change; social perception. Publ: Co-auth, Dimensions of authoritarianism, Univ. Kentucky, 67; auth, Judgmental processes in response to a persuasive communication, 65 & co-auth, Logical consistency and attitude change, 66, J. Personality & Soc. Psychol. Address: Dept. of Psychology, Texas Christian University, University Dr, Ft. Worth, Tex. 76129.

DILLER, DR. JULIET C, b. Brooklyn, N.Y, Jan. 5, 26; m. 49; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 46; M.A, N.Y. Univ, 50, Ph.D.(psychol), 55. Practicing psychotherapist, 54-; consult, Brooklyn Bur. Soc. Serv, 54-; Youth Consultation Serv, 55-; Jewish Child Care Asn, 60-; mem. staff, Jamaica Center Psychother, 63- Psychol. Asn; Acad. Psychother. Psychotherapy; projective techniques; developmental psychology. Publ: Sex factor in enuresis, J. Child Psychiat; Comparison of test performances of delinquent males and females, J. Gen. Psychol. Address: 8507 Avon St, Jamaica Estates, N.Y. 11432.

DILLER, DR. LEONARD, b. Bayonne, N.J, June 29, 24; m. 49; c. 2. PSYCHOLOGY. B.S, City Col. New York, 47; M.A, N.Y. Univ, 50, Ph.D.(psychol), 53. Psychologist, childrens serv, N.Y. UNIV-BELLEVUE MED. CENTER, 51-53, CHIEF PSYCHOLOGIST, INST. PHYS. MED. & REHAB, 53-, ASSOC. PROF, SCH. MED, UNIV, 64- Instr, N.Y. Col. Music, 53-55; consult, dept. neurol. surg, St. Barnabus Hosp, New York, N.Y, 55-58; adj. prof, dept. spec. ed, grad. sch. ed, Yeshiva, 61- Consult, Blythedale Home for Crippled Children, 53-55; Psychol. Serv. Center, 56-; Human Resources Found, 58-; homestead proj, Goldwater Mem. Hosp, 59-; United Cerebral Palsy, 61- Psychol. Asn. Psychology of physical handicapped. Publ: Personality and psychotherapy, J. Soc. Psychol; Conscious and unconscious self attitudes after success and failure, J. Personality; Rorschach correlates in Parkinson's disease, Psychosom. Med. Address: Dept. of Physical Medicine & Rehabilitation, New York University, School of Medicine, 550 First Ave, New York, N.Y. 10016.

DILLEY, DR. DAVID R(OBERT), b. Des Moines, Iowa, July 29, 32; m. 55; c. 2. ECONOMICS, ACCOUNTING. B.S, Drake, 52; Norwegian Am. Line fel. & cert, Oslo, 52; Edwards Found. fel, Indiana, 53-55, M.B.A, 54, D.B.A. (acct. & econ), 56. Staff auditor, Price Waterhouse & Co, Ill, 54; cost analyst, U.S. STEEL CORP, Pa, 55-57, financial analyst, 57-58, statistician, N.Y, 58-59, staff asst, 59-61, mgr. cost & statist, 61-64, asst. dir. cost & statist, 64-67, ASST. TO V.PRES. & ASST. COMPTROLLER, 67- Lectr, Indiana, 52-53; Pittsburgh, 55-56; grad. sch. bus. admin, N.Y. Univ, 62-65. Am. Econ. Asn; Nat. Asn. Bus. Econ; Am. Acct. Asn; Nat. Asn. Acct. Contemporary socioeconomic problems; theory of private enterprise; accounting theory; employee training and development. Publ: American viewpoint on accounting concepts, Can. Chartered Acct, 6/60; Unwritten principles for beginning accountants, J. Accountancy, 9/61; Oxygen steelmaking: fact vs. folklore, Iron & Steel Engr, 10/67. Address: U.S. Steel Corp, 71 Broadway, New York, N.Y. 10006.

DILLEY, PROF. MARJORIE RUTH, b. Roseville, Ill, Jan. 26, 03. POLITICAL SCIENCE. A.B, Colorado, 23; A.M, Washington (Seattle), 28, Ph.D, 34; London Sch. Econ, 32-33. Instr. GOVT, CONN. COL, 35-37, asst. prof, 37-41, assoc. prof, 41-47, PROF, 47-, CHMN. DEPT, 46- Smith-Mundt vis. prof, Makerere Col, Uganda, 58-59, vis. prof, 62-63. Polit. Sci. Asn; fel. African Studies Asn. British colonial policy; British policy in Kenya Colony. Address: Dept. of Government, Connecticut College, New London, Conn. 06320.

DILLIARD, DR. IRVING, b. Collinsville, Ill, Nov. 27, 04; m. 31; c. 2. POLITICAL SCIENCE. A.B, Illinois, 27; Harvard, 28-29, Nieman fel, 38-39; hon. Litt.D, MacMurray Col, 51; LL.D, Colby Col, 53, Washington (St. Louis). 61; hon. L.H.D, New Sch. Soc. Res, 54, Southern Illinois, 58; hon. C.L.D, Brandeis, 56. Reporter, St. Louis Post-Dispatch, 27-30, ed. writer, 30-49, 57-60, ed. editorial page, 49-57; writer & lectr, 60-65; PROF. JOURNALISM, PRINCETON, 65- James lectr, Illinois, 49; Lovejoy lectr, Colby Col, 53; lectr, Brandeis, 53; New Mexico, 54; Allen lectr, Oregon, 55; Hogate lectr, DePauw, 56; lectr, Salzburg Sem. in Am. Studies, 60. Correspondent, Christian Sci. Monitor, 28-38. Trustee, Univ. Illinois, 60. French Legion of Honor; mem, Order Brit. Empire; Medal of Reconnaissance, France. U.S.A, 43-46, Lt. Col. Polit. Sci. Asn; Hist. Asn. Journalism; government; history. Publ: Mr. Justice Brandeis, great American; I'm from Missouri: Spirit of liberty: papers and addresses of Learned Hand. Address: Dept. of Journalism, Princeton University, Princeton, N.J. 08540.

DILLIN, PRES. HARRY LESLIE, b. Redwood, Ala, Dec. 17, 06. ECONOMICS. A.B, St. Stephen's Col, 28; fel, North Carolina, 29-30, A.M, 30; LL.D, Redlands, 44; D.H.L, Bard Col, 64. Instr. math, North Carolina, 30-31; prof. math. & econ, LINFIELD COL, 31-43, PRES, 43-, bus. mgr. & comptroller, 38-43. Treas, Pac. Northwest Intercollegiate Conf, 40-42, pres, 42-44. Introduction to modern economics. Address: Linfield College, McMinnville, Ore. 97128.

DILLINGER, PROF. CLAUDE M(AURICE), b. Humphreys, Mo, Dec. 11, 01; m. 27. PSYCHOLOGY. B.S. Northeast Mo. State Teachers Col. 26; A.M. Missouri, 36, Gregory fel, 37-39, Ph.D.(ed. psychol), 42; Columbia, 53. Proj. supvr, Nat. Youth Admin, Mo, 39; from asst. dir. to dir. curriculum construct, State Dept. Ed, 39-42; assoc. prof. PSYCHOL, Southwest Mo. State Col, 42-44; from asst. prof. to PROF, ILLINOIS STATE, 44-, dean faculty, 65-66, spec. asst. to dean faculty, 66-67. Psychol. Asn. Learning; clinical psychology and mental hygiene; gifted children. Publ: Missouri's cooperative curriculum development program, Bull. Nat. Asn. Secondary Sch. Prins; Missouri's secondary school curriculum program, Curriculum J; Handbook for freshman counselors, Teachers Col. J. Address: Dept. of Psychology, Illinois State University, Normal, Ill. 61761.

DILLINGER, PROF. J(OHN) L, Statist, see 10th ed, Soc. & Behav. Vols, deceased 66.

DILLINGHAM, DR. HARRY CLOPTON, b. Ennis, Tex, Feb. 1, 23; m. 47; c. 4. SOCIOLOGY. B.A, Texas, 48; M.A, Michigan, 51, Ph.D.(sociol), 61. Teaching fel. sociol, Michigan, 50-54; asst. prof, Millsaps Col, 54-56; instr, Michigan, 56-57; instr. & asst. prof, Iowa State, 57-61; vis. assoc. prof, Vanderbilt, 61-62; asst. prof, Central Michigan, 62-65; ASSOC. PROF. SOCIOL, CINCINNATI, 65- U.S. Off. Ed. res. grant, 67-68. Res. asst, Gov. Study Cmn. Sex Deviates, 50; dist. supvr, Detroit Metrop. Area Traffic Study, 53; consult, psychol. serv. center, Univ. Cincinnati, 67-68. Summer field work Seminole Negroes, Nacimiento, Coahuila, Mex, 65 & 66. U.S.A, 43-46, 2nd Lt. Fel. Sociol. Asn; Acad. Polit. & Soc. Sci; Pop. Asn; Soc. Sci. Study Relig. Family; stratification; religion; sociological theory; research methods; social structure. Publ: Protestant religion and social status, 1/65 & Rejoinder: social class and church participation, 7/67, Am. J. Sociol; co-auth, The mechanical cotton-picker, Negro migration and the integration movement, Human Orgn, 66. Address: Dept. of Sociology, University of Cincinnati, Cincinnati, Ohio 45221.

DILLINGHAM, PROF. W(ILLIAM) P(YRLE), b. Dorset, Vt, Mar. 4, 09; m. 43; c. 2. ECONOMICS. B.A, Florida, 34; M.S, Tennessee, 42; fel. & Ph.D. (econ), Duke, 50. Head, commerce dept, S.Ga. Col, 42-43; asst. prof. commerce, Madison Col, 43-44; ECON, Georgia, 47-49; from asst. prof. to PROF, FLA. STATE, 49- Fulbright lectr, Madrid & Barcelona, 61-62. Consult, President's Cmn. Vet. Pensions, 55-56. Econ. Asn; Tax Inst. Public finance; veteran's benefits and affairs; Latin American economic problems. Publ: Federal aid to veterans, 1917-1941; co-auth, Public finance, Pitman, 59; Historical development of veterans' benefits in the United States, Monogr, President's Cmn. Vet. Pensions. Address: 2109 Trescott Dr, Tallahassee, Fla. 32303.

DILLON, PROF. CONLEY H, b. Lawrence Co, Ohio, Oct. 19, 06; m. 34; c. 2. POLITICAL SCIENCE. A.B, Marshall Col, 28, M.A, Duke, 33, Ph.D, 36. Instr. polit. sci, Marshall Col, 34-36, asst. prof, 36-38, assoc. prof, 38-40, prof, 40-60, head dept, 38-60; PROF. GOVT. & POLIT, MARYLAND, 60- State price exec, Off. Price Admin, W.Va, 42-46; chief, serv. trades br, Off. Price Stabilization, 51-53. Consult, Huntington Prod. Pool, 55-58; res. consult, Attorney Gen. W.Va, 59-60; consult, Governor W.Va, 61-; Md. Cmn.

Study Constitutional Revision, 66- Mem, Prince Georges County Study Cmn, 66- Polit. Sci. Asn; Soc. Int. Law; Soc. Pub. Admin. International labor; price administration; surplus labor areas. Publ: Introduction to political science; The area redevelopment administration, Bur. Govt. Res, 64; New patterns in develop. administration, Maryland. Address: Dept. of Political Science, University of Maryland, College Park, Md. 20903.

DILLON, DR. DONALD J, Psychol, see 11th ed, Phys. & Biol. Vols.

DILLON, PROF. LOWELL IVAN, b. Otwell, Ind, Oct. 21, 17; m. 47. GEOGRAPHY. B.S, Indiana, 40, M.S, 48, M.A, 55, Ph.D, 60. Teacher, pub. schs, Ind, 36-57; asst. prof. GEOG, BALL STATE, 57-62, assoc. prof, 62-67, PROF, 67- Instr, eve. col, Evansville Col, 52-57. U.S.A, 41-45. Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic geography; geography in the public schools; geography of Australia and Oceania; geography of Indiana. Publ: Co-auth, Earth science, a programmed text, Brown, 65 & Indiana, the Hoosier state, World Book Encyclop, 65. Address: Dept. of Geography & Geology, Ball State University, Muncie, Ind. 47306.

DILLON, PROF. MARY EARHART, b. Kansas City, Mo, Feb. 5, 06. POLITICAL SCIENCE. A.B. & A.M, Northwestern, 34, Ph.D, 39. Mem. faculty, Northwestern, 40-48; from asst. prof. to PROF. POLIT. SCI, QUEENS COL, (N.Y), 48-, chmn. dept, 49-54. Polit. Sci. Asn. Political parties; public opinion and pressure groups; American government. Address: Dept. of Political Science, Queens College, Flushing, N.Y. 11367.

DILLON, PROF. ROBERT E(DWARD), b. Ware, Mass, Aug. 25, 22. MARKETING, ECONOMICS. B.S, Massachusetts, 48; M.B.A, Ohio State, 48, Ph.D, 58. Asst. prof. MKT, CINCINNATI, 52-55, assoc. prof, 55-59, PROF, 59- U.S.A, 43-46. Econ. Asn; Mkt. Asn; Acad. Advertising. Address: University of Cincinnati, College of Business Administration, Cincinnati, Ohio 45221.

DILLON, DR. WILTON S(TERLING), b. Yale, Okla, July 13, 23; m. 56; c. 1. CULTURAL ANTHROPOLOGY. A.B, California, 51; Paris, 51-52; Leyden, 52; Ph.D.(anthrop), Columbia, 61. Info. specialist, U.S. Govt. Japan, 46-49; instr. sociol. & anthrop, Hobart Col, 53-54; dir. clearinghouse for res. human orgn, Soc. Appl. Anthrop, 54-56; dir. res. & exec. secy, Phelps-Stokes Fund, 57-63; head African affairs sect, NAT. ACAD. SCI-NAT. RES. COUN, 63-66, staff dir, sci. orgn. develop. bd, 66-68, DIR. SPEC. STUDIES, 68- Lectr, teachers col, Columbia, 55-56, 57-58; Grant Found. res. award, France, 56; Ford Found. travel study award, W.Africa, 58; lectr, New Sch. Soc. Res, 59-60; dir, Hazen Found-Phelps-Stokes Fund Res. Prog, Ghana, W.Africa, 61-62. Consult, Overseas Training & Res, Inc, 56; Am. Friends Serv. Cmt, 65- Mem, Columbia Seminar Africa, 61-; participant, Pugwash Conf. Sci. & World Affairs, Ethiopia, 66 & Sweden, 67; mem. adv. coun. Africa, U.S. Dept. State, 66- U.S.A, 43-46. Fel. Anthrop. Asn; fel. African Studies Asn; Soc. Appl. Anthrop. Culture-contact; sociology of knowledge; tribe-state relationships; evolution of scientific communities in developing countries; role of science and technology in United States foreign relations; international gift behavior. Publ: Gifts and nations: the obligations to give, receive, and repay, Mouton, The Hague, 68; Universities and nation-building in Africa, J. Mod. African Studies, 63; Science in Africa, In: Encyclop. Americana, 67. Address: 1446 Woodacre Dr, McLean, Va. 22101.

DIMASCIO, ALBERTO, Psychol, see 11th ed, Phys. & Biol. Vols.

DIMBATH, DR. MERLE F, b. Dayton, Ohio, Mar. 21, 39; m. 62; c. 2. ECONOMICS, MARKETING. B.S, Virginia, 61; M.A, Florida, 62, Ph.D.(econ), 64. Instr. mkt, Florida, 62-63; asst. prof, San Jose State Col, 64-65; assoc. prof, South Florida, 65-67; CHMN. DEPT. ECON, FLORIDA SOUTH. COL, 67- Econ. Asn; Mkt. Asn. Consumer and political research; economic development; attitude studies. Publ: Marketing implications of Brevard County's economic development, Econ. Leaflets, 5/63; A survey of small business in the Tampa Bay area, Univ. South Florida, 6/67; A theory of the marketing mix, South. J. Bus, 1/68. Address: Dept. of Economics & Business, Florida Southern College, Lakeland, Fla. 33802.

Di MICHAEL, DR. SALVATORE G, b. New York, N.Y, Apr. 21, 14; m. 46; c. 3. COUNSELING, PSYCHOLOGY. B.S, Fordham, 35, M.A, 39, Ph.D, 43. Instr. counseling, St. Louis, 40-41, asst. prof, 43-44; asst. dean teaching methods, U.S. Army Air Forces Radio Instrs. Sch, 42-43; psychol. serv. consult, U.S. Off. Voc. Rehab, 44-53; exec. dir. ment. retardation, Nat. Asn. Retarded Children, 54-56; regional rep, U.S. Rehab. Serv. Admin, 56-67; DIR. INST. CRIPPLED & DISABLED, 68- Lectr. & consult, Catholic Univ, 46-54. Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn; Personnel & Guid. Asn; fel. Asn. Ment. Deficiency. Counseling of the handicapped; psychological evaluation and rehabilitation. Publ: Psychological services in vocational rehabilitation; Vocational rehabilitation of the mentally retarded; Vocational diagnosis and counseling of the handicapped. Address: Institute for Crippled & Disabled, 400 First Ave, New York, N.Y. 10010.

DIMIT, DR. ROBERT MORGAN, b. Rochester, Pa, Apr. 23, 22; m. 46; c. 4. SOCIOLOGY, RURAL SOCIOLOGY. B.A, Pa. State, 48, M.S, 49; Ph.D.(rural sociol), Iowa State, 54. Asst. prof. RURAL SOCIOL, S.Dak. State, 52-54, assoc. prof, 54-56; Ohio State, 56-65; PROF, S.DAK. STATE, 65- U.S.N, 42-46, Res, 46-, Comdr. Rural Sociol. Soc; Sociol. Asn. Social organization; diffusion of agricultural practices; community organization; educational and occupational aspirations of youth; social change. Address: Dept. of Rural Sociology, South Dakota State University, Brookings, S.Dak. 57006.

DIMLING, JOHN ARTHUR, JR, b. Pittsburgh, Pa, Apr. 9, 38; m. 60. OPERATIONS ANALYSIS. A.B, Dartmouth Col, 60; M.S, Carnegie Inst. Tech, 62; Kentucky, 65-67. Trainee commercial res, U.S. Steel Corp, 60-61, cost analyst, 62-63; staff officer, U.S. Army Strategy & Tactics Anal. Group, 63-65; sr. scientist, SPINDLETOP RES, 65-67, MGR. COMMUN. & SYSTS. DIV, 67- Eve. prog. instr, Carnegie Inst. Tech, 62-63. U.S.A, 63-65, Res, 65-, Capt. Econ. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Applications of operations analysis and research; computer simulations; mathematical modeling. Address: Bryan Station Rd, Route 4, Lexington, Ky. 40505.

DIMMICK, DR. CLAIRE C(OMSTOCK), Exp. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

DIMMICK, DR. FORREST LEE, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 68.

DIMMLER, GEORGE F(RANCIS), Econ, see 10th ed, Soc. & Behav. Vols.

DIMOCK, DR. HEDLEY G(ARDINER), b. Chicago, Ill, Mar. 6, 28; m. 51; c. 3. PSYCHOLOGY, HUMAN RELATIONS. B.A, Beloit Col, 49; Michigan, 49-50, 52; M.A, Columbia, 54, Ed.D.(group psychol), 55. Res. master, residential sch. handicapped children, 50-51; dir, dept. group guid, Montreal Children's Hosp, 51-58; coordinator staff develop. & training, YMCA, 58-63; ASSOC. PROF. APPL. SOC. SCI, CHMN. DEPT. & DIR. CENTRE HUMAN RELS. & COMMUNITY STUDIES, SIR GEORGE WILLIAMS, 63-, lectr, 57-63. Asst, center improving group procedures, Columbia, 53-55. Psychol. Asn; Soc. Psychol. Study Soc. Issues. Methods of character education and evaluation of training programs; observation techniques in small groups; group leadership; training programs; individual interviewing, counseling and supervisory methods; planned group and institutional change. Publ: Child in hospital; Group development, Sir George Williams, 66. Address: Dept. of Applied Social Science, Sir George Williams University, 1435 Drummond St, Montreal 25, Que, Can.

DIMOCK, DR. MARSHALL E(DWARD), b. San Bernardino, Calif, Oct. 24, 03; m. 27, 40; c. 4. POLITICAL SCIENCE. A.B, Pomona Col, 25; Ph.D, Hopkins, 28. Instr. polit. sci, California, Los Angeles, 28-30, asst. prof, 30-32; Soc. Sci. Res. Coun. fel, 32-33; assoc. prof. pub. admin, Chicago, 33-41; lectr, sch. pub. law & admin, N.Y, Univ, 41-44; prof. polit. sci, Northwestern, 44-48; mem, State legis, Vt, 48-50; resident rep, UN, Turkey, 53-54; prof. govt. & head dept, N.Y. Univ, 55-62; RETIRED. Asst. to U.S. Secy. War, 34, 35; second asst. secy, U.S. Dept. Labor, 38-40; assoc. cmnr, immigration & naturalization serv, U.S. Dept. Justice, 40-42. Consult, Nat. Resources Bd, 35-40, surv, Tenn. Valley Authority, 35; U.S. Dept. War, 44; Gen. Acct. Off, 46, 47; U.S. Dept. Nat. Defense, 47, 48. Chmn. U.S. Secy. Labor's Cmt. Immigration Admin. Practice & Procedure, 38-39. Fel. AAAS; Polit. Sci. Asn; Econ. Asn; Soc. Pub. Admin; Soc. Adv. Mgt.(v.pres, 45). Modern politics and administration; bureaucracy and trusteeship in large corporations; goals for political science. Publ: Philosophy of administration; Administrative vitality; America's new political economy. Address: R.D. 1, Scrivelsby, Bethel, Vt. 05032.

DINELLO, DR. FRANK A(NTHONY), b. Chicago, Ill, May 28, 29; m. 56; c. 5. CLINICAL PSYCHOLOGY. B.S, Illinois, 55; M.A, Loyola (Ill), 58, Ph.D. (clin. psychol), 61. Asst. psychologist, Loyola Guid. Center, Chicago, 55-58, staff psychologist, 58-61; Ill. State Psychiat. Inst, Chicago, 61-62; ADMINSTR. MENT. HEALTH CLIN, DePAUL UNIV, 62- Intel.C. U.S.A, 51-53. Diagnostic testing; psychotherapy; clinical training. Publ: Stages of treatment in the case of a diaper wearing 17-year-old male, Am. J. Psychiat, 7/67; co-auth, A double blind study of imipramine in the treatment of enuretic school children, Am. J. Diseases Children, 1/68 & The use of imipramine in the treatment of enuresis—a review of the literature, Can. Psychiat. Asn. J, 5-6/68. Address: Dept. of Psychology, DePaul University, 25 E. Jackson Blvd, Chicago, Ill. 60604.

DINERMAN, BEATRICE, b. Brooklyn, N.Y, Sept. 12, 33. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Brooklyn Col, 54; M.P.A, California, Los Angeles, 57. Pub. admin. analyst, bur. govt. res, California, Los Angeles, 56-62; Ford Found. proj. dir, Welfare Planning Coun, Los Angeles, 62-65; soc. sci. res. analyst, planning & community develop, Econ. & Youth Opportunities Agency, Los Angeles, 65-66; res. assoc. med. manpower & med. staff orgn, sch. pub. health, California, Los Angeles, 66-67; RES. CONSULT, HEALTH PLANNING ASN. SOUTH. CALIF, 68- Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Local government; social, economics, and political implications of metropolitan growth; organizational decision-making; community development; medical affairs. Publ: Structure of local government in the U.S, Nyhoff, 61; co-auth, Southern California metropolis, Univ. California, 63; auth, The dynamics of priority planning: a study of decision-making in welfare, Ford Found, 65. Address: 15097 Encanto Dr, Sherman Oaks, Calif. 91403.

DINERMAN, HELEN S, b. New York, N.Y, Dec. 25, 20; m. 45; c. 2. SOCIOLOGY. M.A, Columbia, 48. Asst, Off. Radio Res, 40-42; res. analyst, Off. War Info. & Off. Facts & Figures, 42-44; Bur. Appl. Soc. Res, 44-47; study dir, Am. Jewish Cmt, 47-48; V.PRES, INT. RES. ASSOCS, 48- Sociol. Asn; Asn. Pub. Opinion Res.(secy-treas, 52-53). Public opinion; communications; intergroup relations. Publ: Image problems for American companies abroad, In: The corporation and its publics; co-auth, The new man of power; Voting in 1948, Pub. Opinion Quart. Address: 179 E. 70th St. New York, N.Y. 10021.

DINERSTEIN, PROF. HERBERT S(AMUEL), b. New York, N.Y, Mar. 3, 19; m. 44; c. 2. POLITICAL SCIENCE. B.A, City Col. New York, 39; M.A, Harvard, 40, Ph.D.(hist), 43. Regional analyst, Off. War Info, 43-45; instr. hist, N.Y. Univ, 45-46; Soc. Sci. Res. Coun. fel. Soviet Studies, 46-47; asst. prof. hist, Stevens Inst. Tech, 47-50; sr. staff mem. Soviet studies, Rand Corp, 55-66, head Soviet sect, 62-66; PROF. SOVIET STUDIES, SCH. ADV. INT. STUDIES, HOPKINS, 66- Polit. Sci. Asn. Soviet studies; Latin American studies. Publ: Communism and the Russian peasant, Macmillan, 55; War and the Soviet Union, Praeger, 59; Transformation of alliance systems, Am. Polit. Sci. Rev, 65. Address: School of Advanced International Studies, Johns Hopkins University, 1740 Massachusetts Ave. N.W, Washington, D.C. 20036.

DING, PROF. EDWIN, b. China, May 15, 02; nat; m. 53; c. 1. ECONOMICS. B.A, Fukien Christian Univ, China, 22; M.A, Southern California, 26, Ph.D, 37; M.A, Harvard, 27. Assoc. prof. banking, Amoy, China, 28-31; ECON, Fukien Christian Univ, 32-36, prof. & head dept, 37-47; lectr, Southern California, 47-48; assoc. prof, UNIV. OF THE PACIFIC, 48-50, PROF, 50- Instr, Stockton Col, 48-63; Fulbright lectr, Nat. Taiwan Univ, Formosa, 59-60. Adv, China For. Trade Cmn, 39-41. Econ. Asn. International economic

relations; monetary theory and policy; problem of economic growth, especially of underdeveloped countries. Address: Dept. of Economics, University of the Pacific, Stockton, Calif. 95204.

DINGILIAN, PROF. DAVID H, b. Harpoot, Turkey, Sept. 13, 08; nat; m. 36. SOCIOLOGY, PSYCHOLOGY. A.B, Chapman Col, 34, hon. Litt.D, 52; All Nations Found. fel, 34-35; fel, Southern California, 35-36, M.A, 36; Rockefeller fel, Columbia, 41-42. Instr. soc. sci, CITY SCHS, LOS ANGELES, 36-41, dir. voc. guid. center, 45-53, guid, 53-55; COUNSR, 55-; from instr. to PROF. PSYCHOL, LOS ANGELES HARBOR COL, 55- Part time private practice, 62- U.S.A, 43-45. Psychol. Asn; Sociol. Asn; Int. Soc. Gen. Semantics. Learning theory; psychotherapy; counseling techniques. Address: 4308 Miraleste Dr, Miraleste, Calif. 90732.

DINGLE, DR. MONA E(LLIOTT), Econ. see 10th ed, Soc. & Behav. Vols.

DINGMAN, DR. HARVEY F(RANKLIN), b. Elwood, Ind, May 5, 25; m. 49. PSYCHOLOGY. B.A, Southern California, 50, M.A, 52, Ph.D.(psychol), 55. Res. psychologist, personnel res. br, U.S. Dept. Army, 55-56; res. scientist, HumRRO, Tex, 57; res. specialist, Pac. State Hosp, Pomona, Calif, 57-67; ASSOC. PROF. ED. PSYCHOL, TEXAS, 67- Res. assoc, sch. med, California, Los Angeles, 57-67. U.S.A, 43-46. Psychol. Asn; Statist. Asn; Psychomet. Soc; Biomet. Soc; Soc. Res. Child Develop; Asn. Ment. Deficiency; Asn. Comput. Mach; Psychonomic Soc; Soc. Multivariate & Exp. Psychol; Pub. Health Asn; Ed. Res. Asn. Statistical methods in psychology; testing; social deviance. Publ: New computing diagram for the point biserial correlation coefficient, Psychometrika; co-auth, New method of obtaining composites of rating, J. Appl. Psychol; auth, Computer analysis of psychological and psychiatric data, In: Computers in biomedical research, Academic, 65. Address: 1122 Colorado, Austin, Tex. 78701.

DINGMAN, DR. PAUL R, b. Palmer, Mass, Sept. 29, 20; m. 42; c. 2. PSYCHOLOGY. Fel, Clark, 48, Ph.D.(psychol), 50. Psychologist, Brattleboro Retreat, Vt, 50-52; DIR, DES MOINES CHILD GUID. CENTER, 52-, chief psychologist, 52-61. Lectr, Marlboro Col, 51-52; Drake, 54-55. Consult, div. child welfare, State of Iowa, 55-63; div. corrections, Iowa Bd. Control, 62-64; Iowa Youth Guid. Serv, 61-64; Nat. Inst. Ment. Health, 63-67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 55. Psychol. Asn; Soc. Proj. Tech; Orthopsychiat. Asn; Asn. Ment. Deficiency; Pub. Health Asn. Personality theory; applied research in psychopathology and psychotherapy. Address: Des Moines Child Guidance Center, 1206 Pleasant St, Des Moines, Iowa 50309.

DINIC, CARL JOSEPH, b. New York, N.Y, July 2, 03; m. 31. ECONOMICS, BUSINESS ADMINISTRATION. B.S, California, 26; M.B.A, Harvard, 30. Asst. to gen. supt, Albion Lumber Co, 26-28; asst. mgt, East. Gas & Fuel Assocs, 30-38; asst. mgr. mkt. res, U.S. Steel Corp, Del, 38-44; exec. asst. to pres, Am. Locomotive Co, 44-47; mgr. bus. res, Rheem Mfg. Co, 47-48; sales mgr, Gen. Elec. Co, 49-50; gen. mgt. consult, Ebasco Servs, Inc, 51-64; ASST. DEAN GRAD. BUS. ADMIN. & ASST. PROF. PRACTICES & FINANCE, ADELPHI, 64-; DIR, HERITAGE FUND, INC, 67- Exec. v.pres, Gen. Steel Prod. Corp, 60-61. Econ. Asn; Newcomen Soc. Corporate general management; assignments and responsibility in corporate activities. Publ: Domestic fuels-Atlantic seaboard, Docket; Lets talk marketing research, Stove Builder; Copper supplies found adequate, New York Times. Address: 262 Ridge Rd, Douglas Manor, L.I, N.Y. 11363.

DINITZ, DR. SIMON, b. New York, N.Y, Oct. 29, 26; m. 49; c. 3. CRIMINOLOGY, SOCIAL PSYCHIATRY. B.A, Vanderbilt, 47; M.A, Wisconsin, 49, Ph.D, 51. Instr. sociol. & criminol, OHIO STATE, 51-55, asst. prof, 55-59, assoc. prof, 59-63, PROF. SOCIOL, 63-, RES. ASSOC. PSYCHIAT, 56-Summers, lectr, inst. alcoholism, Wisconsin, 51 & 52. Ed, Criminologica, 66- Am. Psychiat. Asn. Hofheimer prize, 67. U.S.N, 45-46. Fel. Sociol. Asn; Soc. Study Social Probs; Psychopath. Asn. Criminology; social psychiatry; methodology. Publ: Co-auth, Social problems: dissensus and deviation in an industrial society, Oxford, 64, Schizophrenics in the community, Appleton, 67 & Critical issues in the study of crime, Little, 68. Address: Dept. of Sociology, Hagerty Hall, Ohio State University, Columbus, Ohio 43210.

DINKEL, PROF. ROBERT M(ILLER), b. U.S, Mar. 17, 08; m. 40; c. 4. SOCIOLOGY. B.A, Notre Dame, 30; M.A, Minnesota, 36; Ph.D.(sociol), North Carolina, 50. PROF. SOCIOL, GUILFORD COL, 50- Nat. defense exec. reservist, U.S. Census Bur, 57-; v.pres, Pop. Reference Bur, Wash, D.C, 60-; mem. adv. coun, Princeton Univ, sociol. dept, 66-; lectr, North Carolina, Greensboro, 67- U.S.M.C, 44-45. Fel. Sociol. Asn; Anthrop. Asn; Pop. Asn; Int. Union Sci. Study Pop. Human fertility; the family; labor force and manpower. Publ: Fertility, Urban South. Address: 1100 S. Elm, Greensboro, N.C. 27406.

DINKMEYER, PROF. DON C, b. Evanston, Ill, Jan. 20, 24; m. 49; c. 2. COUNSELING PSYCHOLOGY. B.S, Omaha, 46; M.A, Northwestern, 48; Ph.D.(counseling), Mich. State, 58; cert. psychother, Alfred Adler Inst, 63. Teacher, elem. sch, Nebr, 44-46; instr, Concordia Teachers Col.(Ill), 46-54; couns-teacher, high sch, Ill, 54-59; chmn. dept. psychol, Nat. Col. Ed, 59-66; PROF. GUID. & COUNSELING, DePAUL, 66- Ed, Elem. Sch. Guid. & Counseling J. Personnel & Guid. Asn; Psychol. Asn; Ed. Res. Asn; Soc. Res. Child Develop. Child development; elementary school; guidance and counseling. Publ: Co-auth, Encouraging children to learn: the encouragement process, 63 & auth, Child development: the emerging self, 65, Prentice-Hall; Guidance and counseling in the elementary school: readings in theory and practice, Holt, 68. Address: 1015 Manor Dr, Wilmette, Ill. 60091.

DINNERSTEIN, DR. ALBERT J(ACK), b. New York, N.Y, Jan. 23, 27; m. 50; c. 3. PSYCHOLOGY. B.A, Hunter Col, 50; fel, Texas, 51-52, M.A, 52; fel, Colorado, 53-54, Ph.D.(psychol), 58. Asst. prof. PSYCHOL, Antioch Col, 55-57; res. assoc, Pittsburgh, 57-58; asst. prof, Chico State Col, 58-60; from instr. to ASSOC. PROF. REHAB. MED, N.Y. MED. COL, 60- U.S.N, 45-46. Psychol. Asn; Cong. Rehab. Med. Methods in perception and the role of perceptual events in disabling diseases. Publ: Effects of aspirin on detection and tolerance of electric shock, J. App. Physiol, 65; Interaction of drugs with placebos in the control of pain and anxiety, Perspectives Biol. & Med, 66; Anxiety perceptual latency and behavioral disability, J. Nerv. Ment. Dis, 66. Address: Dept. of Physical Medicine & Rehabilitation, Bird S. Coler Hospital Welfare Island, New York, N.Y. 10017.

DINOFF, DR. MICHAEL, b. New York, N.Y, Apr. 30, 33; m. 53; c. 2. PSYCHOLOGY. B.A, Indiana, 55; M.A, Alabama, 57; Ph.D, Tennessee, 60. Chief psychologist, Bristol Ment. Health Clin, Tenn, 60-61; res. psychologist, Vet. Admin, Tuscaloosa, 61-63; asst. prof. PSYCHOL, ALABAMA, 63-66, ASSOC. PROF, 66-, DIR. PSYCHOL. CLIN, 65- Lectr, Alabama, 61-; co-dir, Camp Ponderosa, 63- Consult, Ment. Health Clin, 63-67; Alcoholism Clin, 67- Psychol. Asn. Verbal conditioning. Publ: Co-auth, An experimental analogue of 3 psychotherapeutic approaches, 60 & Stability of schizophrenic speech in a standardized interview, 63, J. Clin. Psychol; co-auth, Shaping adaptive behavior in a therapeutic camp, In: Case studies in behavior modification, 65. Address: 42 Idlewood Dr, Tuscaloosa, Ala. 35401.

DINSMOOR, PROF. JAMES A(RTHUR), b. Woburn, Mass, Oct. 4, 21; m. 56; c. 3. PSYCHOLOGY. B.A, Dartmouth Col, 43; A.M, Columbia, 45, Ph.D. (psychol), 49. Instr. PSYCHOL, Newark Cols, Rutgers, 45-46; lectr, Columbia, 46-51; asst. prof, INDIANA, 51-58, assoc. prof, 58-63, PROF, 63-Fel. Psychol. Asn. Experimental analysis of behavior; behavior theory; conditioning. Publ: Quantitative comparison of the discriminative and reinforcing functions of a stimulus, J. Exp. Psychol; Punishment, Psychol. Rev; Operant conditioning, In: Experimental methods and instrumentation in psychology, McGraw, 66. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

DION, PROF. GERARD, b. Ste. Cecile de Frontenac, Que, Dec. 5, 12. INDUSTRIAL RELATIONS. B.A, Lévis Col, Lévis, 35; L.Th, Laval, 39, L.Ph, 42, M.S.S, 43. PROF. INDUST. RELS, LAVAL, 44-, dir. dept. 56-62. Chmn, Joint Res. Cmn. Indust. Conversion, 65; mem, Can. Task Force Labor Rels, 66, 67 & 68. Ed, Relations-industrielles-Industrial Relations, 45- Indust. Rels. Res. Asn; Can. Sociol. & Anthrop. Asn; Can. Indust. Rels. Res. Inst; Can. Asn. Adult Ed. Jurisdictional disputes in the construction industry. Publ: Le syndicalisme obligatoire et la morale, Office Général du Livre, Belgium, 57; co-auth, Le chrétien en démocratie, Editions de l'Homme, 60; auth, Property and authority in business concerns, Laval Univ, 62. Address: Dept. of Social Science, Laval University, Quebec 10, Que, Can.

DI PESO, DR. CHARLES C(ORRIDINO), JR, b. St. Louis, Mo, Oct. 20, 20; m. 42; c. 2. ANTHROPOLOGY. B.A. & B.S, Beloit Col, 42; B.F.T, Am. Inst. For. Trade, 47; M.A, Arizona, 51, Ph.D.(anthrop), 52. Archaeologist, City of Phoenix, Ariz, 45-46; instr. area studies, Am. Inst. For. Trade, 46-47; archaeologist in charge, AMERIND FOUND, INC, 49-52, DIR, 52-Kidder award, 59. U.S.A.A.F, 42-45. Fel. AAAS; fel. Anthrop. Asn; fel. Soc. Archaeol. Archaeohistorical studies of the Southwest and northern Mexico. Publ: Upper Pima of San Cayetano del Tumacacori; Reeve Ruin of southeastern Arizona; Archaeology and ethnohistory of the northern Sierra, In: Handbook of Middle American Indians, Vol. 4, 66. Address: Amerind Foundation, Inc, Dragoon, Ariz. 85609.

DIRECTOR, PROF. AARON, b. Poland, Sept. 21, 01; nat; m. 37. ECONOMICS. Ph.B, Yale Col, 24; Chicago. PROF. ECON, LAW SCH, CHICAGO, 46-Econ. Asn. Monopoly and competition; monetary theory. Address: Law School, University of Chicago, Chicago, Ill. 60637.

DiRENZO, DR. GORDON JAMES, b. North Attleboro, Mass, July 19, 34; m. 68. SOCIOLOGY, SOCIAL PSYCHOLOGY, A.B, Notre Dame, 56, A.M, 57, Ph.D. (sociol), 63; summers, Harvard, 59 & Colorado, 64. Instr. SOCIOL, Col. St. Rose, 57-59; res. asst, Notre Dame, 59-60, res. assoc, 60-61; instr, Portland, 61-62; asst. prof, Fairfield, 62-66; ASSOC. PROF, INDIANA, 66- Res. grants, Italian Govt, 60, Ford Found, 60 & 67, Nat. Sci. Found, 64 & 67, Univ. Colorado, 64, Am. Polit. Sci. Asn. & Indiana Univ, 67 & Indiana Univ, 68; sr. Fulbright prof, Univ. Rome, 68-69. Lectr, Albany Med. Center & Siena Col, 58-59; res. sociologist, Univ. Rome, 60-61; lectr, Good Counsel Col, 63-65; Danbury State Col, 64; vis. lectr, Brooklyn Col, 65; res. assoc, Notre Dame Soc. Sci. Training & Res. Lab, 66- Summer, vis. prof, Notre Dame, 65 & State Univ. N.Y. Cortland, 66. Exec. dir, Sociol. Consult, Group, Mass, 63-; dir. res, Parents & Friends of the Mentally Retarded, Inc, Conn, 64-65; consult, Conn. Ment. Health Asn, 64-65; Ind. Ment. Health Asn, 67- AAAS; Sociol. Asn; Psychol. Asn; Polit. Sci. Asn; Soc. Psychol. Study Social Issues. Personality and social structure; social psychiatry and organization; methodology and epistemology of the behavioral sciences; political sociology; theoretical problems concerning the functional relationships between personality and social systems. Publ: Concepts, theory and explanation in the behavioral sciences, Random, 66; Personality, power and politics, Univ. Notre Dame, 67; Personalita' e portere politico, Societa' Editrice II, Bologna, Italy, 67. Address: Dept. of Sociology, Indiana University, South Bend, Ind. 46615.

DIRKS, FREDERICK C(ARL), b. Medford, Mass, Oct. 22, 09; m. 35; c. 2. ECONOMICS. B.S, Middlebury Col, 31; Braker fel, Tufts, 31-33, M.S, 33; Ellis fel, Columbia, 34-36. Asst. real estate finance, Nat. Bur. Econ. Res, 35; res. economist bus. finance & capital mkts, Fed. Reserve Bd, 36-46; chief financial intel. br. & dep. chief policy enforcement br. & govt. struct. br, U.S. Off. Mil. Govt, Germany, 46-48, consult, 48; economist, Off. Secy. Defense, 48-50; chief, N.Am. Div, INT. MONETARY FUND, 50-58, dir. overseas training, 58-64, SR. ADV, 64-, asst. dir, IMF Inst, 64-66. Econ. Asn; Finance Asn. Business and international finance; economic development; investment research. Publ: Structuralism and monetarism, Bank & Fund Rev, 6/68. Address: 5608 Pioneer Lane, Washington, D.C. 20016.

DIRKSEN, DEAN CHARLES J, b. Springfield, Ill, Aug. 27, 12; m. 41; c. 6. MARKETING. B.S, St. Louis, 35, M.S, 38; L.L.D, Santa Clara, 65. DEAN. GRAD. SCH. BUS, SANTA CLARA, 42- Vis. prof, Tennessee, 47; San Francisco, 48-50; grad. sch. bus, Harvard, 53; Southern California, 54-56. AAAS; Statist. Asn; Mkt. Asn; Mgt. Asn. Publ: Co-auth, Cases in Marketing; auth, Readings in marketing, 63, 68 & Advertising: principles and problems, 60, 64, 68, Irwin. Address: Graduate School of Business, University of Santa Clara, Santa Clara, Calif. 95053.

DIRKSEN, CLETUS, C.PP.S, b. Montezuma, Ohio, Sept. 17, 07. POLITICAL SCIENCE. A.B, St. Joseph's Col.(Ind), 28; A.M, Catholic Univ, 41, Ph.D, Notre Dame, 47. Instr, St. Joseph's Col.(Ind), 41-43, prof. polit, 46-63; instr, Xavier (Ohio), 45-46; asst. pastor, St. Augustine Church, 62- Mem, For. Asn. World Affairs Center. Econ. Asn. Economic theory and political philosophy; critical analysis of Richard Hooker's theory of church-state relations; economic factors of delinquency. Publ: Catholic social principles. Address: St. Augustine Church, 48 N. Hanover St, Minster, Ohio 45865.

DIRLAM, PROF. JOEL B(AXTER), b. Mansfield, Ohio, Aug. 26, 15; m. 41; c. 3. ECONOMICS. A.B, Yale, 36, Ph.D.(econ), 47. Instr. ECON, Vermont, 43; from asst. prof. to assoc. prof, Lincoln, 47-50; instr, Connecticut, 51-52; asst. prof, Conn. Col, 53-55; assoc. prof, Connecticut, 55-60, PROF, 60-63; Mich. State, 63-64; RHODE ISLAND, 64- Res. assoc, Brookings Inst, 55-58. Consult, Attorney Gen. Mich, 55-56; Jordan Develop. Bd, 60-61. Mem, Int. Bank Mission Yugoslavia, 66. U.S.A, 44-46. Econ. Asn. Anti-trust policy; utility regulation. Publ: Co-auth, Fair competition, the law and economics of antitrust policy and Pricing in big business; auth, Petroleum industry. In: Structure of American industry. Address: Dept. of Economics, University of Rhode Island, Kingston, R.I. 02881.

di ROCCAFERRERA, DR. GIUSEPPE M. FERRERO, b. Turin, Italy, July 20, 12; U.S. citizen; m. 52; c. 2. OPERATIONS RESEARCH, MANAGEMENT SCIENCE. B.S, Tech. Inst. Turin, 29; M.S, Indust. Inst. Turin, 33; Ph.D. (indust. mgt), Turin, 39; Hon.D, Combs Col. Music, 65. Lectr. mgt, N.Y. Univ, 57-58; assoc. prof, Florida, 58-62; indust, Pennsylvania, 62-65; OPERS. RES, SYRACUSE, 65-68, PROF, 68- Summers, Int. Bus. Mach. prog. fel, 58, fel, economy in action prog, Case Inst. Tech, 60, Found. Econ. Ed. fels, Bus. of the Col-Bus. Exchange Prog, Beneficial Mgt. Corp, N.J, 60, Vitro Labs, Md, 65 & Niagara Mohawk Power Corp, N.Y, 67. Italian Army, 37-39, Capt. Opers. Res. Soc; Inst. Mgt. Sci. Operations research techniques; linear programming; management science, especially systems analysis concept. Publ: Operations research models for business and industry, 64 & Introduction to linear programming processes, 67, South-Western Pub; Data processing and computer applications for managerial applications, Harcourt, 68. Address: College of Business Administration, Syracuse University, 116 College Place, Syracuse, N.Y. 13210.

DISERENS, DR. CHARLES M(URDOCH), b. Cincinnati, Ohio, Jan. 25, 89; m. 29, 32; c. 2. PSYCHOLOGY. B.L, Ohio Mech. Inst, 12; A.B, Lebanon Valley Col, 15; A.M, Cincinnati, 17, Ph.D.(psychol), 22; summers, Chicago, 18-22; Nat. Univ. Mexico, 28. Instr. chem, Ohio Mech. Inst, 11-13; math, Lebanon Valley Col, 14-16; pharmaceut. physics, Queen City Col. Pharm, 16-17; asst. psychol, CINCINNATI, 17-18, philos, 18-20, instr, PSYCHOL, 20-24, asst. prof, 24-44, from assoc. prof. to EMER. PROF, 44- Assoc, Psychol. Corp, N.Y, 40- Ed, Psychol. Bul, 31- AAAS; fel. Psychol. Asn. Experimental psychology of music and study of motivations; history of psychology; influence of music on behavior. Address: 431 Wood Ave, Cincinnati, Ohio 45220.

DISHER, PROF. DOROTHY ROSE, b. Whitehouse, Ohio, July 6, 06. PSYCHOLOGY. A.B, Ohio Wesleyan, 28; A.M, Ohio State, 29, Ph.D.(psychol), 33. Asst, Ohio State, 28-33; asst. prof. PSYCHOL, Fla. State Col. Women, 33-42, assoc. prof, 42-45; ADELPHI, 45-62, PROF, 62- AAAS; Psychol. Asn. Infant behavior; development; reactions of new born infants to chemical stimuli administered nasally; inception of experienced self. Address: Dept. of Psychology, Adelphi University, Garden City, N.Y. 11530.

DISHER, KENNETH B(UCHTEL), Anthrop, see 10th ed, Soc. & Behav. Vols.

DISHMAN, PROF. ROBERT B(URNS), b. Pittsburgh, Pa, Mar. 10, 18; m. 42; c. 3. POLITICAL SCIENCE. A.B, Missouri, 39, A.M, 40; Ph.D, Princeton, 48. Asst. polit. sci, Missouri, 39-41; instr. polit, Princeton, 41-42, 46; GOVT, Dartmouth Col, 47-49, asst. prof, 49-51; NEW HAMPSHIRE, 51-52, assoc. prof, 52-57, PROF, 57-, CHMN. DEPT, 67- Mem. & secy, N.H. Legis. Coun, 55-59; res. dir, N.H. Admin. Cmt. Munic. Courts, 59-61; mem. & chmn, N.H. State Library Cmn; mem, N.H. Constitutional Study Cmn, 64. Demobilization award, Soc. Sci. Res. Coun, 46-47. U.S.N, 42-46. Public law; political behavior and economy. Publ: The state of the Union, Scribner, 65; State constitutions: shape of the document, Nat. Munic. League, rev. ed, 67; State legislatures in New England politics, New Eng. Center, 68. Address: Dept. of Political Science, University of New Hampshire, Durham, N.H. 03824.

DISPENZIERI, DR. ANGELO, b. New York, N.Y, Aug. 2, 29; m. 52; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 53; Ph.D, N.Y. Univ, 61. Lectr. PSYCHOL, CITY COL. NEW YORK, 54-60, instr, BARUCH SCH, 60-64, asst. prof, 65-67, ASSOC. PROF, 68- Res. dir, Coord. Coun. Ed. Disadvantaged, 64-65; co-investr, Off. Naval Res, 64-; co-dir. col. discovery prog, Soc. Dynamics Res. Inst, 64- AAAS; Psychol. Asn; Ed. Res. Asn. Publ: Co-auth, Compensatory education: a critical analysis of the literature and programs for the older disadvantaged child, Hazan Found, 66; An evaluation of the lecture and role-playing methods in the development of interviewing skills, 61 & The relationship between the ability to acquire interviewing skills and authoritarianism and manifest anxiety, 63, Personnel & Guid. J. Address: Baruch School of Business & Public Administration, City College of New York, 17 Lexington Ave, New York, N.Y. 10010.

DITMARS, EARL E(DWARD), b. Mo, Feb. 4, 22; m. 44; c. 3. ECONOMICS. B.S, Southwest Mo. State Col, 42; M.S, North Carolina, 44. Asst. prof. econ, Arkansas, 47-51; labor economist, regional bur. labor statist, U.S. Dept. Labor, 51-53; from sr. analyst forecasting to DIR. TARIFFS & TRAFFIC ANAL, AM. AIRLINES, INC, 53- U.S.A, 43. Econ. Asn. Business fluctuations, conditions, finance and forecasting; labor problems. Address: Tariffs & Traffic Analysis, American Airlines, Inc, New York, N.Y. 10017.

DITTERT, PROF. ALFRED E(DWARD), JR, b. Dallas, Tex, Feb. 24, 22; m. 46; c. 2. ANTHROPOLOGY, GEOLOGY. B.A, New Mexico, 47, M.A, 49; fel. Arizona, 50-51, Ph.D, 59. Asst. anthrop, Mus. N.Mex, 55-57; archaeol, Sch. Am. Res, 57-59; res. assoc, Mus. N.Mex, 59-60, curator salvage archaeol, div. anthrop, 60-62, archaeol. res, 62-64, curator-in-charge res, 64-67; PROF. ANTHROP, ARIZONA STATE, 67- Consult, Acoma & Laguna Pueblos Land Claims, 59-61. Mem. steering cmt, north. Rio Grande resources conserv. & develop. proj, soil conserv. serv, U.S. Dept. Agr, 64-67. U.S.A.A.F, 43-46, Sgt. Soc. Am. Archaeol; fel. Anthrop. Asn. Archaeological investigations using interdisciplinary studies of the interrelations of man, culture and environment; salvage archaeology. Publ: Co-auth, An ecological interpretation of Anasazi settlement patterns, Anthrop. Soc. Wash. (in press); auth, Preliminary archaeological investigations in the Navajo project salvage archaeology; co-auth, Archaeological survey of the Navajo reservoir district in northwestern New Mexico. Address: Dept. of Anthropology, Arizona State University, Tempe, Ariz. 85281.

DITTES, PROF. JAMES E(DWARD), b. Cleveland, Ohio, Dec. 26, 26; m. 48; c. 3. PSYCHOLOGY. A.B, Oberlin Col, 49; B.D, Yale, 54, M.S, 55, Ph.D. (psychol), 58. Instr. sci, Am. Sch, Turkey, 50-52; asst. instr. PSYCHOL. RELIG, YALE, 55-57, instr, 57-59, asst. prof, 59-62, assoc. prof, 62-67, PROF, 67- Guggenheim fel, 65-66; Fulbright res. award, Italy, 65-66. U.S.N.R, 45-46. Psychol. Asn; Soc. Sci. Study Relig.(exec. secy, 59-63, ed, J. Sci. Study Relig, 66-); Psychology of religion; personality characteristics and definition of roles of ministers; relation of personality and cognitive processes; psychotherapy; effects of birth order. Publ: Co-auth, Psychological studies of clergymen, Nelson, 65; auth, The church in the way, Scribner, 67; Effects of changes in self-esteem upon impulsiveness and deliberation in making judgements, J. Abnorm. & Soc. Psychol. Address: 107 Westminster, Hamden, Conn. 06518.

DITTMANN, DR. ALLEN T(HRASHER), b. Cincinnati, Ohio, Feb. 23, 21; m. 56; c. 2. CLINICAL PSYCHOLOGY. B.A, Arizona, 42; Ph.D.(psychol), California, 50. Lectr. psychol. & clin. psychologist, psychol. clinic, inst. human adjustment, Michigan, 50-54; RES. PSYCHOLOGIST, LAB. PSYCHOL, NAT. INST. MENT. HEALTH, 54- Faculty mem, Washington Sch. Psychiat, 56- Consult, Vet. Admin. Hosp, Ft. Custer, Mich, 51-54. U.S.A, 42-45. AAAS; fel. Psychol. Asn; fel. Orthopsychiat. Asn. Emotional communication; interaction in psychotherapy; psycholinguistics. Address: Lab. of Psychology, National Institute of Mental Health, Bethesda, Md. 20014.

DITTMER, DR. DANIEL G(UEQUIERRE), b. Milwaukee, Wis, July 4, 13; m. 45; c. 1. PSYCHOLOGY. B.A, Wisconsin, 36, Ph.D.(psychol), 40; M.A, California, 37. Occup. analyst, U.S. Employ. Serv, D.C, 40-42; instr. & asst. prof. psychol, New Hampshire, 46-50; prof. & chmn. dept, North Dakota, 50-52; prog. dir, manpower div, human resources res. inst, Maxwell Air Force Base, Ala, 52-53; tech. exec, human factors div, directorate res. & develop, hq, U.S. Dept. Air Force, Wash, D.C, 53-57, admin. officer, off. dep. chief staff for develop, 57-61, asst. basic res. & soc. sci, life sci. div, directorate res, 61-62; ADMIN. STAFF OFFICER, OFF. SPACE MED, NASA, 62- U.S.N, 42-46, Res, 46-57; U.S.A.F.R, 57- Col. Fel. AAAS; fel. Psychol. Asn. Administration. Address: 1647 Francis Hammond Pkwy, Alexandria, Va. 22302.

DITZ, DR. GERHARD W(ILLIAM), b. Nov. 5, 17; U.S. citizen; m. 56; c. 3. ECONOMICS. B.S, London, 45; univ. fel, Wisconsin, 46-47, M.A, 47; Gilder fel, Columbia, 47-48, Ph.D.(sociol), 55. Instr. indust. sociol, Brooklyn Col, 48-49; res. assoc, Edward W. Hazen Found, Inc, 49-52; prof. econ. & sociol. & chmn. dept, Franklin Col, 52-53; head res. br, Radio Free Europe, 53-57; sr. res. analyst, Prudential Ins. Co, 57-59; dir. mkt. res, Harold Cabot Co, 59-60; ASSOC. PROF. MKT. LOYOLA (ILL), 60- Lectr, For. Affairs Forum, N.Y, 47-49; proj. dir, Nat. Coal Bd, Eng, 49-50; lectr, Hunter Col, 53-59; Fulbright prof, post-grad. sch. soc. sci, São Paulo, 67-68. Consult, Wm. Esty & Co, 55-57; Harvard, 60; Ill. Bell Tel. Co, 61; Reuben H. Donnelley Corp, 61-63; Soc. Res. Inc, 64; Miss. Valley Struct. Steel Co, 65. Fel. Sociol. Asn; Econ. Asn; Mkt. Asn. Industrial sociology; international communications; motivational analysis of buying and selling; role theory applied to business behavior; business developments in Brazil. Publ: Status problems of the salesman, MSU Bus. Topics, winter 67; Role theory applied to life insurance selling, Group Psychother, 6/65; Utopian symbols in the history of the British labour party, Brit. J. Sociol, 6/66. Address: 1020 Dewey Ave, Evanston, Ill. 60202.

Di VESTA, PROF. FRANCIS J(OHN), b. Bridgeport, Conn, Mar. 8, 20; m. 47; c. 2. EDUCATIONAL & DEVELOPMENTAL PSYCHOLOGY. B.S, Connecticut, 42; M.S, Cornell, 46, Ph.D.(ed. psychol), 48. Assoc. prof. ed. psychol, Syracuse, 53-58, prof. psychol, 58-64; PROF. ED. & PSYCHOL, PA. STATE, 64- Consult. & field reader, U.S. Off. Ed, 64- Fel. AAAS; fel. Psychol. Asn; Soc. Res. Child Develop; Psychonomic Soc. Verbal behavior; attitude formation and change; social processes; learning theory. Publ: The effects of context, frequency, and order of presentation of evaluative assertions on impression formation, J. Personality & Soc. Psychol; Response selection as a function of instructions and motivation under nonreinforcement conditions, J. Exp. Psychol; A developmental study of the semantic structures of children, J. Verbal Learning & Verbal Behav. Address: Dept. of Educational Psychology, Pennsylvania State University, University Park, Pa. 16802.

DIVINE, THOMAS F(RANCIS), S.J, b. Kansas City, Mo, Aug. 23, 00. ECONOMICS, BUSINESS ADMINISTRATION. A.B, St. Louis, 23, A.M, 24; Ph.D, London, 38. Asst. prof. econ. & asst. dean, Rockhurst Col, 32-33; instr. econ, Marquette, 38-39, asst. prof, 39-42, prof. econ. & dean col. bus. admin, 42-59, dir. dept. econ, 42-48, labor col, 41-49; prof. econ, St. Louis, 59-63; PROF. ECON. & ED. MARQUETTE BUS. REV, MARQUETTE, 63- Ed, Rev. Soc. Econ, 49-59. Econ. Asn; Economet. Soc. Microeconomics; business ethics; interest theory. Publ: Interest: an historical and analytical study in economics and modern ethics; co-auth, Ethics and standards in American business, Houghton, 64 & Business in a changing social order, Coun. Bus. Ethics, 65. Address: Dept. of Economics, Marquette University, Milwaukee, Wis. 53233.

DIVOKY, CHARLES EVANS, b. Omaha, Nebr, Oct. 30, 23; m. 49; c. 3. ECONOMICS, BUSINESS FINANCE. B.C.S, Seattle, 49; M.A, Columbia, 51. Admin. labor analyst, Wage Stabilization Bd, 51-52; prof. econ, Seattle, 52-63; INS. EDUCATOR MGT. DEVELOP, SAFECO INS. CO, 63- Finance consult, Boeing Airplane Co, 57, 60- U.S.A.A.F, 43-45, Sgt. Econ. Asn. Ef-

fects of aid to underdeveloped countries and exports on domestic employment; savings stamps and their relationship to price. Publ: Finance management. Address: 18275 58 N.E, Seattle, Wash. 98155.

DIX, DR. ROBERT HELLER, b. Elizabeth, N.J, Aug. 18, 30; m. 56. POLITICAL SCIENCE. B.A, Harvard, 51, M.A, 53, Ph.D.(govt), 62. Mem. staff, U.S. For. Serv, 57-60; teaching fel. govt, Harvard, 61-62; instr. polit. sci, Yale, 62-63, asst. prof, 63-67; RES. ASSOC. POLIT. DEVELOP, CENTER INT. AFFAIRS, HARVARD, 67- Soc. Sci. Res. Coun. fel. & Yale Int. Concilium grant, 66-67. U.S.A, 53-55. Polit. Sci. Asn; Latin Am. Studies Asn. Political parties and political development in Latin America, especially in Colombia and Chile. Publ: Colombia: the political dimensions of change, Yale, 67. Address: Center for International Affairs, Harvard University, Cambridge, Mass. 02138.

DIXON, DEAN BROCK, b. Huron, S.Dak, Dec. 20, 18; m. 39; c. 1. POLITICAL SCIENCE. B.A, Pacific Col, 39; Booth fel, Oregon, 48-49, M.A, 49; Ph.D, Southern California, 57. U.S. Internal Revenue agent, Ore, 42-48; instr. polit. sci, Portland State Col, 49-54, asst. prof, 54-57, assoc. prof, 57-61, prof. polit. sci, 61-68, asst. dean faculty, 61-63, DEAN admin, 63-68; COL. ARTS & SCI, PACIFIC UNIV, 68- U.S.N.R, 44-46, Res, 55-, Lt. Comdr. Polit. Sci. Asn; Soc. Pub. Admin. Problems of state and local government, especially metropolitan area problems, problems of taxation and of the suburban fringe; public law and administration; theory. Publ: Assessed valuation of commercial property in Portland, Oregon; Civic services in the suburbs of Guadalajara, Planning & Civic Comment, spring 63; Planning parameters, Proc. Soc. Col. & Univ. Planning, 8/66. Address: 348 S.E. Walnut, Hillsboro, Ore. 97123.

DIXON, DR. DAVID R(OBERT), b. Provo, Utah, June 24, 31. PSYCHOLOGY. B.S, Utah, 53, M.S, 58; Utah State, 58-60; Ed.D.(ed. psychol), Brigham Young, 65. Psychol. counsr, Davis Sch. Dist, Utah, 58-60, psychologist, 60-63; res. asst. ed. psychol, Brigham Young, 63-64; psychologist, Kane Sch. Dist, Utah, 64-66; ASST. PROF. PSYCHOL, NORTH. STATE COL, 66-, consult, reading clin, 66- Res. asst, Utah State, 58-60; lectr, Commun. Workers Am. Leadership Inst, S.Dak, 67. U.S.A.F, 53-55, Res, 55-61, Lt. Psychol. Asn; Soc. Psychol. Study Social Issues; Acad. Polit. & Soc. Sci. General behavior modification, especially as it relates to problems in learning theory, research design, and political and educational psychology; behavioral outcomes of collegiate academic programs. Publ: Individual study programs and collegiate academic productivity, In: Improving college and university teaching, Ore. State Univ, (in press). Address: Dept. of Psychology, Box 602, Northern State College, Aberdeen, S.Dak. 57401.

DIXON, DR. DONALD WAYNE, b. Monroe, La, Sept. 18, 27; m. 47; c. 5. PSYCHOLOGY. A.B, Miami (Fla), 52, M.S, 62; Nat. Inst. Ment. Health fel, Tennessee, 63-65, Ph.D.(psychol), 65. Instr. PSYCHOL, Maryville Col. (Tenn), 62-63; asst. prof, Maine, 65-67; ASSOC. PROF, BIRMINGHAM-SOUTH. COL, 67- U.S.N, 45-46. AAAS; Psychol. Asn. Verbal learning; motivation; secondary reinforcement in relation to non-homeostatic drives; psychomotor verbal learning. Address: Dept. of Psychology, Birmingham-Southern College, Birmingham, Ala. 35204.

DIXON, PROF. FRED, b. Albany, Ore, Dec. 4, 01; m. 21; c. 2. GOVERNMENT. Commercial Eng, Cincinnati, 28, M.A, 50; Ph.D, Virginia, 60. Off. & credit mgr, F. H. Lawson Co, Ohio, 32-35; asst. credit mgr, Gruen Watch Co, 35-40; assoc. prof. POLIT. SCI, CONVERSE COL, 59-60, prof. & chmn. dept, 60-67, EMER. PROF, 67- U.S.A, 40-57, Col. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Mid. East Inst. United States-Israeli relations from 1948 to 1958; current relations of the United States with the countries of the Middle East; activities of the Republican party in South Carolina; economic problems of underdeveloped countries. Address: Dept. of Political Science, Converse College, Spartanburg, S.C. 29301.

DIXON, PROF. GEORGE I. J, b. Pa, Feb. 7, 20; m. 42; c. 1. SOCIOLOGY, ANTHROPOLOGY. B.A. & M.A, Montana State, 47; North Dakota, 51; Ph.D, Nebraska, 54. Instr. sociol, North Dakota, 49-51; exten. div, Nebraska, 51-52, res. assoc, 53-54; instr. SOCIOL. & ANTHROP, WIS. STATE, STEVENS POINT, 54-56, asst. prof, 56-58, assoc. prof, 58-60, PROF, 60-, chmn. dept, 58-63. Nat. Sci. Found. grant anthrop. study, 63. Consult, Wis. State Curriculum Develop, 63-64. Mem. Wis. State Legis. Cmt. Pub. Welfare, 66. U.S.A, 41-45. AAAS; fel. Sociol. Asn; fel. Soc. Appl. Anthrop; Soc. Study Social Probs. Sociology of knowldege, religion and of the childless couple; human ecology; medical sociology; American archaeology; sociological theory. Publ: Land and human migrations, Am. J. Econ. & Sociol; Cooperative programs with sociology and social work, Wis. Sociologist, spring, 63; co-auth, Preliminary sociology of the childless couple, Rocky Mt. Soc. Rev, spring 68. Address: Dept. of Sociology & Anthropology, Wisconsin State University, Stevens Point, Wis. 54481.

DIXON, PROF. J(AMES) C(ANNON), b. Maysville, N.C, Dec. 17, 16. PSYCHOLOGY. A.B, Mt. St. Mary's Col.(Md), 38; M.A, North Carolina, 46, Ph.D.(psychol), 48. Intern clin. psychol, Bowman Gray Sch. Med, 48; assoc. prof. PSYCHOL, Emory, 48-49; FLORIDA, 49-56, PROF, 56- Consult, Vet. Admin, 53- U.S.A, 42-45. Psychol. Asn. Psychopathology; attention and thought processes. Address: Dept. of Psychology, University of Florida, Gainesville, Fla. 32601.

DIXON, DR. JAMES J(ONES), b. Philadelphia, Pa, Feb. 11, 22; m. 47; c. 2. PSYCHOLOGY. B.A, Miami (Fla), 50, M.S, 51; Ph.D.(psychol), London, 55. Intern psychol, Inst. of Pa. Hosp, 51-52, staff psychologist, 52-53, asst. chief & admin. psychologist, 55-56, dir. psychol. servs, 56-66, ASSOC. PSYCHOL, H.J. WOEHR & ASSOCS, 66- Consult, Provident Mutual Life Ins. Co, 63-; Leeds & Northrup Co, 64- U.S.N, 42-46. Psychol. Asn. Clinical psychology; employee and executive training; motivation research. Publ: Co-auth, Patterns of anxiety: the phobias, Patterns of anxiety: an analysis of social anxieties & Patterns of anxiety: the correlates of social anxieties, Brit. J. Med. Psychol. Address: 1307 W. Wynnewood Rd, Wynnewood, Pa. 19096.

DIXON, DR. JOAN F, b. Sparks, Nev, Nov. 19, 31. PSYCHOLOGY. A.B, Nevada, 53; A.M, Southern California, 55; Washington State, 57-58; Ph.D. (psychol), Washington (St. Louis), 62. Asst. med. psychol, sch. med, Washington (St. Louis), 62; ASST. PROF. PSYCHIAT, SCH. MED, KENTUCKY, 62-, PSYCHOL, UNIV, 63- AAAS; Psychol. Asn. Development of psychophysiological processes and its relationship to perception, language and cognitive processes; verbal operant conditioning. Address: Dept. of Psychiatry, University of Kentucky, Lexington, Ky. 40506.

DIXON, DR. KEITH A(LAN), b. San Francisco, Calif, Sept. 23, 29. ANTHROPOLOGY. B.A, Arizona, 50, fel, 50-51, M.A, 52, Ph.D.(anthrop), California, Los Angeles, 56. Archaeologist, New World Archaeol. Found, 56-58; ASSOC. PROF. ANTHROP, CALIF. STATE COL. LONG BEACH, 58- Res. assoc, Los Angeles County Mus. Natural Hist, 62- Fel. Anthrop. Asn; Soc. Archaeol. Archaeological research in Middle America, California, and Southwestern United States; analysis of ceramics, textiles, stone artifacts; problems in artifact seriation, culture change, cultural evolution, archaeological methodology. Address: Dept. of Anthropology, California State College, Long Beach, Calif. 90801.

DIXON, PROF. LOUIS V, b. California, Mo, Jan. 17, 27; m. 49; c. 3. ECONOMICS. B.S, Connecticut, 50, M.S, 55; Hood Dairy Found. fel, Florida, 55-57, Ph.D.(econ. of agr), 59. Work-unit conservationist, soil conserv. serv, U.S. Dept. Agr, N.Y. & Conn, 50-53; asst. econ, Connecticut, 53-55; Florida, 55-57, economist in charge, field off, U.S. Dept. Agr, 57-60; assoc. prof. econ, Southern Mississippi, 60-63, prof. & acting chmn. dept, 63-66; PROD. ECON. ADV, U.S. AGENCY INT. DEVELOP. FOR ASSISTANCE MISSION ECUADOR, 66- Fel, Nat. Mfrs. Asn. Seminar Econ. Ed, Claremont Men's Col, 66- U.S.N, 45-46, 51-52. Econ. Asn. Economic policy. Publ: Economic and statistical evaluation of grading cattle, Fla. Exp. Sta. Bull; Determination of a public utility rate base, South. Quart, 7/65; co-auth, Quantitative evaluation of the ability of individuals to grade live cattle, J. Agr. Econ, 2/66. Address: U.S. Agency for International Development, Quito, Ecuador, State Dept. Mailroom, Washington, D.C. 20521.

DIXON, DR. MARLENE D, b. Los Angeles, Calif, Oct. 13, 36; m. 57. SOCIOLOGY. A.B, California, Los Angeles, 60, M.A, 63, Nat. Sci. Found. summer fels, 63-65, Richards fels, 63-65, Nat. Inst. Gen. Med. Sci. fel, 64-65, Wilson fel, 65-66, Ph.D.(sociol), 67. ASST. PROF. SOCIOL, CHICAGO, 67-AAAS; Sociol. Asn; Acad. Polit. & Soc. Sci. Sociology of professions and knowledge; contemporary social movements; social psychology. Publ: Professionalism in engineering, Dept. Eng, California, Los Angeles, 64; Professionals in a corporate environment, In: Engineer, Engr. Joint Coun, 68. Address: Dept. of Sociology, University of Chicago, Chicago, Ill. 60637.

DIXON, DR. ROBERT E(NSIGN), b. Leesburg, Ind, Oct. 19, 13; m. 41; c. 3. PSYCHOLOGY. B.A, Oberlin Col, 37, M.A, 41; Ph.D.(psychol), Ohio State, 48. Assoc. prof. psychol. & voc. serv. dir, Denison, 46-52; ASSOC. PROF. PSYCHOL, OBERLIN COL, 52-, assoc. dean men, 52-53, asst. dean col, 53-54, assoc. dean, 54-64. U.S.A.A.F, 42-45. Psychol. Asn. Psychological testing and counseling; education of the gifted. Address: Dept. of Psychology, Oberlin College, Oberlin, Ohio 44074.

DIXON, PROF. ROBERT G(ALLOWAY), JR, b. Canajoharie, N.Y, Apr. 24, 20. LAW, POLITICAL SCIENCE. A.B, Syracuse, 43, fel, 43-44, 44-46, Ph.D. 47; LL.B, George Washington, 56. Instr. govt. & polit, Maryland, 46-47, asst. prof, 47-54, assoc. prof, 54-56; LAW, GEORGE WASHINGTON, 56-60, PROF, 60- Ford Found. faculty fel, law sch, Stanford, 51-52; Rockefeller Found. fel, 64-65; Am. Philos. Soc. grantee, 65. Consult, Nat. Capital Transportation Agency, 61-; N.Y. & Pa. Constitutional Conventions, 66-67. Chmn. Supreme Court Cmt, Asn. Am. Law Schs, 65-66. Polit. Sci. Asn; Bar Asn. Constitutional law; civil liberty; judicial process; president elect and electoral college; metropolitan problems and structure; conflict of laws. Publ: Co-auth, Adjusting municipal boundaries: annexation and consolidation; auth, Democratic representation: reapportionment in law and politics, Oxford Univ, spring 68; Religion, schools, and the open society: a socio-constitutional issue, J. Pub. Law, 65. Address: Law School, George Washington University, Washington, D.C. 20006.

DIXON, DR. ROGER C(OIT), b. Hanover, N.H, July 13, 14; m. 43, 60; c. 3. ECONOMICS. A.B, Princeton, 36, M.A, 40, Ph.D, 42; fel, Brookings Inst, 40-41. Economist, antitrust div, U.S. Dept. Justice, 41-42; chief int. bus. practices div, U.S. DEPT. STATE, 49-61, chief commercial policy & treaties div, 61-63, counsr. econ. affairs, Am. Embassy, Copenhagen, Denmark, 63-67, U.S. MISSION, ORGN. ECON. COOP. & DEVELOP, PARIS, 67-U.S.A.A.F, 42-45. Econ. Asn. United States and foreign antitrust policy and practice; foreign trade policy. Address: American Embassy, APO New York 09777.

DIXON, RUSSELL A(YERS), b. Pittsburgh, Pa, Nov. 24, 00. ECONOMICS. A.B, Pittsburgh, 25, A.M, 30. Instr. econ, Pittsburgh, 30-36, asst. prof, 36-41, assoc. prof, 41-65, asst. dean sch. lib. arts, 58-65; RETIRED. Movie technician, Gulf Oil Corp, Fla, 39; dir. res, Housing Authority, Pa, 43-44; corporate analyst, price adjust. div, Ord. Dist, 44-45. Economics and cultural change; economic institutions; building better houses. Address: 625 Vermont Ave, Pittsburgh, Pa. 15234.

DIXON, DR. THEODORE R, b. Detroit, Mich, Apr. 12, 29. PSYCHOLOGY. B.S, Western Michigan, 52, M.A, 53; Southern California, 56-57; Washington State, 57-58; Ph.D.(psychol), Washington (St. Louis), 62. Instr. PSYCHOL, Missouri, St. Louis, 61-62; asst. prof, Kentucky, 62-66; ASSOC. PROF, TEXAS CHRISTIAN, 66- Nat. Inst. Ment. Health res. grant, 63-67. Sr. consult, Int. Bus. Mach, Inc, 66- U.S.A, 45-47. Psychol. Asn. Human learning; verbal behavior and conditioning; problem solving; human oriented reinforcement considerations upon storage and retrieval in memory. Address: Dept. of Psychology, Texas Christian University, Fort Worth, Tex. 76129.

DIXON, PROF. VERNON J, Econ, see 10th ed, Soc. & Behav. Vols.

DIXON, PROF. WILFRID JOSEPH, Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

DIXON, PROF. W(ILLIAM) ROBERT, b. Hudson, Pa, Sept. 16, 17; m. 40; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Syracuse, 38, A.M, 39; Ph.D, Michigan, 48. Teacher, pub. sch, N.Y, 40-42; asst. prof. ED. PSYCHOL, Illinois, 48-49; from asst. prof. to PROF, MICHIGAN, 49- Exchange prof, Bombay, 64-65. U.S.A.A.F, 42-45, Res, 45-, Maj. Psychol. Asn. School achievement and learning; selection of teachers. Publ: Studies of the eye movements in reading of university professors and graduate students, Michigan Monogr; Rate of reading development: its relation to sex, intelligence, and the age of learning to read, J. Ed. Res; Studies in the prediction of teaching performance: I. empathic potential, J. Teacher Ed. Address: School of Education, University of Michigan, Ann Arbor, Mich. 48104.

DIZMANG, OSCAR K(IRK), b. Xenia, Kans, Oct. 2, 03; m. 34; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Kans. State Col, 27; scholar, Chicago, 27-29, M.A, 28. Instr. econ, Beloit Col, 30-31; econ. & mkt, Fenn Col, 31-32; asst. prof. econ. & bus. admin. & head dept, Hanover Col, 32-34; asst. prof. commerce & bus, Kans. State Teachers Col.(Pittsburg), 34-35; prof. econ. & bus. admin. & head dept, Whitworth Col, 35-45; dist. price economist, Off. Price Admin, Wash, 45-46; regional economist, War Asset Admin, 46-47; asst. prof. econ. & bus. admin, Wittenberg Col, 47-48; mgr, R & W Supply Co, 49-50; Spokane Transportation Club, 50-51; price economist, Off. Price Stabilization, 51-52; admin. asst, Atomic Energy Cmn, 53-54; assoc. prof. mgt, Armstrong Col, 54-55; asst. prof. econ. & bus. admin, Pac. Lutheran Col, 55-60; private practice, 60-61; bursar, Lewis & Clark Norm. Sch, 61-63; teacher & librn, Columbia Schs, Wash, 63-65, Wishram Schs, 65-67, TEACHER COMMERCIAL & SOC. STUDIES & LIBRN, BICKLETON SCHS, 67- Carnegie grant, Omaha, summer, 62. Mem. ed. adv. bd, Nat. Library Book of Month Club, 64- Econ. Asn; Am. Acct. Asn; Mkt. Asn. Accounting; marketing; management. Publ: Co-auth, Principles of accounting & Principles of marketing, Pittman. Address: N. 5411 Post St, Spokane, Wash. 99208.

DIZNEY, DR. HENRY F(RANKLIN), b. Tacoma, Wash, Apr. 6, 26; m. 51; c. 4. EDUCATIONAL PSYCHOLOGY, MEASUREMENTS. B.S, Southeast Mo. State Col, 53; M.Ed, Wayne, 55; Ph.D, Iowa, 59. Asst. prof. statist. measurements, Western Reserve, 59-60; dir. univ. exam. serv, Kent State, 60-67, ASSOC. PROF. ED, 64-67; OREGON, 67- U.S.A, 44-46. Psychol Asn; Nat. Coun. Measurement in Ed. Educational measurement; prediction of college success; verbal learning and language. Address: School of Education, University of Oregon, Eugene, Ore. 97403.

DJANG, DR. CHU, b. Kiangyin, China, July 7, 10; m. 49; c. 2. POLITICAL ECONOMY. B.A, Shanghai, 31; M.A, Michigan, 32; Ph.D, Hopkins, 35. Lectr, Cent. Polit. Inst, China, 35-36; asst. prof, comp. law sch, Soochow Univ, 36-38; dep. secy-gen, New Life Movement, Chungking, 38-46; spec. lectr, sch. adv. int. studies, Hopkins, 47-49; MEM, UN SECRETARIAT, 49- Polit. Sci. Asn; Asn. Asian Studies. Chinese political thought and frontier problems. Publ: Co-auth; Far eastern government and politics, China and Japan; Chinese Suzerainty. Address: 167 Shrub Hollow Rd, Roslyn, N.Y. 11576.

DOAN, DR. HELEN, b. Toronto, Ont, June 20, 38. PSYCHOLOGY. B.A, Toronto, 59, M.A, 61; Ph.D.(psychol), Queen's (Ont), 66. Clin. psychologist, Ont. Ment. Health Clin, 61-62; children's clin, Kingston Gen. Hosp, Ont, 62-63; lectr. PSYCHOL, YORK (ONT), 65-66, ASST. PROF, 66- Consult, Ment. Retardation Center, 67- AAAS; Can. Psychol. Asn. Children's discrimination learning. Publ: Co-auth, Cognitive functioning of normal and retarded children, J. Consult. Psychol, 26: 355-361 & Conditional discrimination in rats, Psychonomic Sci, 4: 109-110. Address: Dept. of Psychology, York University, Toronto 12, Ont, Can.

DOBBERT, DR. GUIDO ANDRE, Hist, Sociol, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DOBBINS, DR. D(ELANEY) A(NDREW), b. Lubbock, Tex, Jan. 24, 29; m. 51; c. 3. PERSONNEL & INDUSTRIAL PSYCHOLOGY. B.A, La. State, 51, M.A, 56, Ph.D, 59. Dir. res. behav. path, State Dept. Insts, La, 55-58; consult. indust. psychol, Byron Harless & Assocs, 58; res. psychologist exp. psychol. & personnel selection, personnel res. off, U.S. DEPT. ARMY, D.C, 59-63, behav. scientist, tropic test center, Ft. Clayton, Canal Zone, 63-67, STAFF PSYCHOLOGIST, RES. OFF, ARLINGTON, 67- U.S.A, 46-48, 51, Sgt. Psychol. Asn. Tropical effects; applied experimental psychology; psychometrics; anthropometry. Address: 3924 Forest Grove Dr, Annandale, Va. 22003.

DOBELL, DR. ALAN RODNEY, b. Vancouver, B.C, Apr. 27, 37; m. 62; c. 1. ECONOMICS. B.A, British Columbia, 59, M.A, 61; Ph.D.(econ), Mass. Inst. Tech, 65. Asst. prof. econ, Harvard, 64-68; ASSOC. PROF. ECON. & MATH, TORONTO, 68- Econ. Asn; Economet. Soc. Economic theory; mathematical economics; applications of the theory of optimal control to economic issues. Publ: Co-auth, Random number generators, SIAM Rev, 61, Optimal investment policy, Inst. Elec. & Electronics Engrs. Trans. Automatic Control, 67 & Optimal unemployment rate, Quart. J. Econ, 67. Address: Dept. of Economics & Mathematics, University of Toronto, Toronto, Ont, Can.

DOBIE, DR. SHIRLEY I, b. Detroit, Mich, Jan. 30, 30; m. 51; c. 2. PSYCHOLOGY. A.B, Wayne State, 54, M.A, 56, Ph.D, 59. CLIN. PSYCHOLOGIST, Wayne County Juvenile Court, 59; LAFAYETTE CLIN, WAYNE STATE, 59-, COORDINATOR CLIN. PSYCHOL. TRAINING, 67- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. Psychol. Asn; Group Psychol. Asn. Group psychotherapy; training in clinical psychology; personality and role conflict. Publ: Reinforcing effects of novel and familiar stimuli in human learning, Am. J. Psychol, 14: 404; co-auth, The attitudes and emotions of the psychiatrist in the initial interview, Am. J. Psychother, 20: 17-34 & Does the race, religion and social class of the psychiatric patient affect his treatment?, In: Science and psychoanalysis, Grune, 66. Address: Lafayette Clinic, 951 E. Lafayette, Detroit, Mich. 48207.

DOBRIANSKY, PROF. LEV E, b. New York, N.Y, Nov. 9, 18; m. 46; c. 2. ECONOMICS. Univ. fel, N.Y. Univ, 42-44, A.M, 43, Hirshland fel, 43-44, Ph.D, 51; Gen. Theol. Sem, 43-46; LL.D, Munich, 52. Asst. econ. & hist, N.Y. Univ, 42-44, instr. ECON, 45-48; asst. prof, GEORGETOWN, 48-52, assoc. prof, 52-60, PROF, 60-, acting chmn. dept, 53-54. Res, Am. Bankers Asn, 44; faculty mem, Nat. War Col, 57-58. Consult, cmn. accreditation serv. experiences, Am. Coun. Ed, 52-; select cmt. invest. Communist aggression, U.S. House Rep, 53-54, subcmt. immigration, Cmt. Judiciary, 64; Colgate For. Policy Conf, 58; spec. opers. res. proj, American Univ, 60-Ed, Ukrainian Quart, 61-; Wash. Report, Am. Security Coun, 63- Exec. mem, Inst. Ethnic Studies, 58-; v.chmn. task force, Republican Cmt. Prog. & Progress, 59; chmn, Nat. Captive Nations Cmt, 60-; Award, Freedoms Found, 61. U.S.A.R, Lt. Col. Finance Asn; Philos. Soc; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Socio-economic philosophy; money and banking; political economy of Soviet Union. Publ: Veblenism, a new critique, Pub. Affairs, 57; Nations, peoples and countries in the USSR, Govt. Printing Off, 64; The vulnerable Russians, Pageant, 67. Address: Dept. of Economics, Georgetown University, Washington, D.C. 20007.

DOBRINER, PROF. WILLIAM MANN, b. Springfield, Mass, Oct. 28, 22; m. 50; c. 2. SOCIOLOGY. A.B, Hofstra Col, 48; M.A, Columbia, 50, Ph.D, 56. Lectr. SOCIOL, HOFSTRA, 48-50, instr, 50-56, asst. prof, 56-60, chmn. dept, 59-61, assoc. prof, 60-65, PROF, 65-, CHMN. DEPT, 66-, dir. grad. soc. sci. prog, 61-66. Vis. prof, City Col. New York, 59-67. U.S.A.A.F, 42-45. Sociol. Asn. Social theory; methodology; social stratification and change; metropolitan sociology. Publ: Suburban community; Class in suburbia; Natural history of a reluctant suburb, Yale Rev. Address: 58 Pine St, Garden City, N.Y. 11530.

DOBROVOLSKY, PROF. SERGEI P, b. Vladivostock, Russia, Oct. 8, 08. ECONOMICS. Dipl, Harbin, 30; A.M, Columbia, 42, Ph.D, 49. Res. analyst, Off. Strategic Servs, 45-46; asst. prof. ECON, Wayne State, 48-53, assoc. prof, 53-58; PROF. & HEAD DEPT, RENSSELAER POLYTECH, 58- Lectr, Swarthmore Col, 47-48; res. assoc, Nat. Bur. Econ. Res, 47-60; vis. prof, Rice, 63-64. Econ. Asn; Finance Asn; Economet. Soc. Business finance and fluctuations; national income and employment. Publ: Corporate income retention; Capital formation in manufacturing and mining. Address: Dept. of Economics, Rensselaer Polytechnic Institute, Troy, N.Y. 12181.

DOBSON, DR. GORDON J(OSEPH), b. Moose Jaw, Sask, Apr. 14, 21; m. 56; c. 1. AGRICULTURAL ECONOMICS. B.S.A, Saskatchewan, 48; fel, Ohio State, 48-49, M.Sc, 49, Ph.D, 53. Asst. agr. econ, Ohio State, 49-53; ECONOMIST, CAN. DEPT. AGR, 53- R.C.A.F, 40-44. Agr. Econ. Asn; Agr. Inst. Can. International economics; marketing. Publ: International commodity agreements; Food and people, Bur. Current Affairs Pamphlet. Address: Box 836, R.R. 4, Ottawa, Ont, Can.

DOBSON, PROF. JACK THOMAS, b. Chicago, Ill, Oct. 2, 23; m. 49; c. 4. MANAGEMENT SCIENCE. B.S, Ga. Inst. Tech, 47, M.S, 49; Ph.D.(mgt), Florida, 62. Asst. prof. eng, Ala. Polytech, 51-52; MGT, FLA. STATE, 52-62, assoc. prof, 62-67, PROF, 67-, CHMN. DEPT, 65- Vis. assoc. prof, Columbia, 64. Consult, Fla. indust, 52-; comptroller, State of Fla, 61-Mem, Fla. Off. Emergency Planning Prod. Resources, 65-67. C.Eng, 42-45, Res, 45-, Lt. Soc. Adv. Mgt; Econ. Asn. Industrial management; inquiry into the corporate manipulation of consumer choice. Publ: Mortgage brokers handbook, Peninsular, 62, rev. ed, 65, 67. Address: Dept. of Management, School of Business, Florida State University, Tallahassee, Fla. 32306.

DOBSON, DR. L(EDFORD) WAYNE, b. Green County, Ky, Jan. 17, 34; m; c. 3. ECONOMICS. A.B, West. Ky. State Col, 58, M.A, 60; Ph.D.(econ), Kentucky, 64. Res. staff mem, bur. bus. res, Kentucky, 60-61; res. fel, Fed. Reserve Bank Cleveland, 61-62; asst. prof. ECON, WESTERN KENTUCKY, 62-64, assoc. prof, 64-66, PROF, 67-, HEAD DEPT, 64- Summer faculty fel, grad. sch. banking, Wisconsin, 66. Dir. & lectr, Ky. Sch. Banking, 65-; dir. res. & ed, Ky. Bankers Asn, 65-67, consult, 66- Econ. Asn; Asn. Bus. Econ; Finance Asn. Theory of commercial bank management and monetary economics. Publ: The issuance of capital notes and debentures by commercial banks, Louisville: Ky. Bankers Asn, 65; Capital gains and losses and commercial bank portfolio management, Banking Law J, 3/64; Tax planning for the commercial bank investment portfolio, Bankers Mag, 65. Address: Dept. of Economics, Western Kentucky University, Bowling Green, Ky. 42101.

DOBSON, DR. WILLIAM R(ALPH), b. Tooele, Utah, Feb. 21, 23; m. 44; c. 4. PSYCHOLOGY. Ph.D.(psychol), Purdue, 51. Clin. psychologist, Vet. Admin. Hosp, Marion, Ind, 51-52, asst. chief clin. psychologist, Salt Lake City, Utah, 52-56; training specialist, Rand Corp, Calif, 56; CLIN. & RES. PSYCHOLOGIST, VET. ADMIN. HOSP, 57- Lectr, Utah, 53- U.S.A.A.F, 43-46, Lt. Psychol. Asn. Group and individual psychotherapy; creativity. Publ: Investigation of various factors involved in time perception as manifested by different nosological groups, J. Gen. Psychol. Address: 3509 Fleetwood Dr, Salt Lake City, Utah 84109.

DOBY, PROF. H(ARRY) R(ICKARD), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 66.

DOBY, PROF. JOHN T(HOMAS), b. Ky, May 29, 20; m. 42; c. 2. SOCIOLOGY. A.B, Union Col, 46; M.S, Wisconsin, 50, Ph.D, 56. Assoc. prof. SOCIOL, Wofford Col, 50-56, prof, 56-58; assoc. prof, EMORY, 58-62, PROF, 62- CHMN. DEPT. SOCIOL. & ANTHROP, 61- Consult, eng. exp. sta, Ga. Inst. Tech. Chmn, Sci. & Tech. Adv. Cmt. Ment. Retardation, State of Ga, 64-65; mem, sci. faculty fel. cmt, Am. Coun. Learned Socs, 64-65; mem, grad. fel. div, Nat. Sci. Found, 64-66. U.S.A.A.F, 41-46, Maj. AAAS; fel. Sociol. Asn. Social psychology; methodology. Publ: Introduction to social psychology, 66 & ed. & co-auth, Introduction to social research, 2nd ed, 67, Appleton; auth, Some effects of bias on learning, J. Soc. Psychol. Address: Dept. of Sociology & Anthropology, Emory University, Atlanta, Ga. 30322.

DOBYNS, PROF. HENRY F(ARMER), b. Tucson, Ariz, July 3, 25; m. 48, 58; c. 5. ANTHROPOLOGY. B.A, Arizona, 49, M.A, 56; Nat. Sci. Found. fel, Cornell, 57-58, Ph.D.(anthrop), 60. Res. anthropologist, Bur. Indian Affairs

contract, Arizona, 50-51; asst. sociol. & anthrop, Cornell, 53-55, 56-57; cultural historian, State Mus, Ariz, 58-59; res. coordinator, Andean Prog, Cornell, 59-62, res. assoc, ANTHROP, 62-63, sr. res. assoc, 63-66, lectr, 64-66; PROF. & CHMN. DEPT, KENTUCKY, 66- AAAS; fel. Anthrop. Asn; fel. Soc. Appl. Anthrop.(Malinowski award, 52); Ethnol. Soc; Ethnohist. Soc; Soc. Int. Develop. Applied anthropology, ethnohistory, Latin America. Publ: Hepah! California: Journal of Cave J. Couts; Social matrix of Peruvian indigenous communities, Cornell Univ, 64; co-auth, Ghost dance of 1889 among the Pai Indians of northwestern Arizona, Prescott Col, 67. Address: Dept. of Anthropology, University of Kentucky, Lexington, Ky. 40506.

DOCKERAY, DR. J(AMES) C(ARLTON), b. Grand Rapids, Mich, Aug. 16, 07; m. 35; c. 3. ECONOMICS. A.B, Ohio Wesleyan, 29; A.M, Ohio State, 31, Ph.D, 36. Instr, Iowa State Teachers Col, 35-36; assoc. prof. bus. admin. & econ, Millikin, 36-42; prof. bus. finance, Maryland, 42-46; prof. lectr. bus. admin, GEORGE WASHINGTON, 46-55, prof. finance & chmn. dept. bus. & pub. admin, 55-66, DEAN SCH. GOVT. & BUS. ADMIN, 66- Fiscal & financial economist, U.S. Dept. Commerce, 46-61. Econ. Asn; Finance Asn. Business finance; taxation; investments. Publ: Public utility taxation in Ohio; co-auth, Modern corporation finance. Address: School of Government and Business Administration, George Washington University, 710 21st St, N.W, Washington, D.C. 20006.

DOCKRELL, PROF. WILLIAM BRYAN, b. Manchester, Eng, Jan. 12, 29; m. 54; c. 5. EDUCATIONAL PSYCHOLOGY. B.A, Manchester, 50; dipl, Trinity Col.(Dublin), 51; B.Ed, Edinburgh, 52; Ph.D.(ed. Psychol), Chicago, 63. Ed. psychologist, Manchester Sch. Bd, Eng, 55-58; asst. prof. ed. psychol, Alberta, 58-67; PROF. ED. THEORY, TORONTO, 67- Imp. Rels. Trust sr. fel, London, 66-67. R.A.E.C, 54-55, Sgt. Am. Psychol. Asn; Am. Ed. Res. Asn; Brit. Psychol. Soc. Development of abilities; exceptional children; clinical assessment of children. Publ: Alienation in adolescent society, In: Canadian secondary school, Macmillan, 63; Cultural and educational influences on the differentiation of ability, Proc. Am. Psychol. Asn, 65; Secondary education social class and the development of ability, Brit. J. Ed. Psychol, 66. Address: 325 Heath St. E, Toronto 7, Ont, Can.

DOCKSON, DEAN ROBERT R(AY), b. Quincy, Ill, Oct. 6, 17; m. 44; c. 1. BUSINESS ECONOMICS, INTERNATIONAL RELATIONS. B.S, Illinois, 39; M.F.S, Southern California, 40, Ph.D.(econ), 46. Lectr, Southern California, 39-42, econ. & philos, 45-46; asst. prof. econ. & dir. bur. econ. & bus. res, Rutgers, 46-48; economist, west. home off, Prudential Ins. Co, 48-52; economist & head dept, San Francisco Bank Am, 52-53; prof. mkt. & head dept, SOUTHERN CALIFORNIA, 53-59, PROF. BUS. ECON. & DEAN SCH. BUS. ADMIN, 59- Past. pres. & mem. Hon. Bd. Gov, Town Hall; dir, Welfare Planning Coun, Los Angeles Region, 53-57, chmn. res. cmt, 55-57; dir, Hoffman Electronics, 60-; Foremost-McKesson, Inc; Pac. Lighting Corp; Bekins Van & Storage Co; Olga Co; Calif. Land Co. Consult. economist, Union Bank, 58-; City of Los Angeles. Mem. Adv. Bd. Investment Co. Am. U.S.N, 42-45, Lt. Econ. Asn; Finance Asn; Arbit. Asn; Mgt. Asn; Newcomen Soc. Regional and national economic analysis; business fluctuations; marketing concepts. Publ: Dynamic Los Angeles metropolitan area; Insurance industry in the California market; World trade and the dynamic Los Angeles metropolitan area. Address: School of Business Administration, University of Southern California, Los Angeles, Calif. 90007.

DOCKSTADER, DR. FREDERICK J, b. Los Angeles, Calif, Feb. 3, 19; m. 51. ANTHROPOLOGY. M.A, Ariz. State Col, 41; Ph.D, Western Reserve, 51. Res. assoc, Cranbrook Inst. Sci, 42-50, staff ethnologist, 50-52; curator anthrop, mus, Dartmouth Col, 52-55; MUS. AM. INDIAN, 55-60, DIR, 60- Fel, Cranbrook Inst. Sci, 54-; cmnr, Indian arts & crafts bd, U.S. Dept. Interior, 55-; adj. prof, Columbia, 64. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; Asn. Mus. Ethnology of the southwestern Indians; Indian arts and crafts. Publ: Indian art in Middle America, 64 & Indian art in South America, 67, N.Y. Graphic Soc; co-auth, Das alte Amerika, Holle Verlag, 67. Address: Museum of the American Indian, Broadway at 155th St, New York, N.Y. 10032.

DOCTER, PROF. RICHARD FLOYD, b. San Francisco, Calif, July 20, 28; m. 51; c. 4. PSYCHOLOGY. B.A, California, 51; M.A, Stanford, 52, Ph.D.(psychol), 55. Lectr. & jr. res. psychologist, dept. of psychiat, California, Los Angeles, 58-61, asst. prof. med. psychol, neuropsychiat. inst, 61-65; assoc. adminstr. officer, Am. Psychol. Asn, D.C, 65-66; PROF. PSYCHOL. & CHMN. DEPT, SAN FERNANDO VALLEY STATE COL, 66- Consult, U.S. Naval Neuropsychiat. Res. Unit, 61- U.S.A, 53-58, 1st Lt. Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. Psychol. Asn; Soc. Psychophysiol. Res. Autonomic and muscular processes in humans and animals. Publ: Effect of conventional electroconvulsive shock vs. brief stimulus therapy on memory and nest-building in albino rats, J. Comp. & Physiol. Psychol; co-auth, Effects of ethyl alcohol on autonomic and muscular responses in humans, Quart. J. Studies Alcohol; Variations of optic evoked potentials as a function of reticular activity in rabbits with chronically implanted electrodes, J. Neurophysiol. Address: Dept. of Psychology, San Fernando Valley State College, 18111 Nordhoff St, Northridge, Calif. 91326.

DOCTOR, PROF. POWRIE VAUX, Govt, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DODD, DR. DAVID HARVEY, b. Fulton, Mo, July 28, 38; m. 63. PSYCHOLOGY. B.A, Cent. Methodist Col, 60; M.A, Missouri, Kansas City, 64; Nat. Sci. Found. fel, Colorado, 65-67, Ph.D.(psychol), 67. Teaching asst. PSYCHOL, Missouri, Kansas City, 63; technician, Vet. Admin. Hosp, Kansas City, 63-64; res. asst, Colorado, 64-65; ASST. PROF, UTAH, 67- AAAS. Human learning; concept learning; thinking. Publ: Co-auth, Concept identification: the effects of varying length and informational components of the intertrial interval, 65 & Response-contingent postfeedback intervals in concept identification, (in press), J. Exp. Psychol; co-auth, Learning rate constant in relation to number of stimuli and number of alternatives, Psychol. Reports, 65. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

DODD, PROF. DAVID L(eFEVRE), b. Berkeley Co, W.Va, Aug. 23, 95; m. 24; c. 1. FINANCE. B.S, Pennsylvania, 20; M.S, Columbia, 21, Ph.D, 30. Lectr. transportation, finance & ins, Columbia, 19-21; asst. to economist, Nat. Bank Commerce, 21-22; instr. econ, COLUMBIA, 22-25; FINANCE, 25-30, asst. prof, 30-38, assoc. prof, 38-47, prof, 47-61, assoc. dean univ, 48-52, EMER. PROF, 61- Dir, Graham-Newman Corp, 44-57, partner, Newman & Graham, 50-59; dir, govt. employees cos, 59-67; Criterion Ins. Co, 61-67. Expert consult, 28- Mem. investment cmt, Soc. Sci. Res. Coun, 50-56. U.S.N, 17-19, Lt. Finance Asn.(v.pres, 46). Investment management; corporation finance. Publ: Co-auth, Security analysis; auth, Stock watering. Address: 39 Claremont Ave, New York, N.Y. 10027.

DODD, PROF. EILEEN K(RAMER), b. Coplay, Pa, Dec. 23, 99; m. 30. PSYCHOLOGY. Ph.B, Muhlenberg Col, 22; California, 22, 25; Lehigh, 23-24; M.A, N.Y. Univ, 24, Ph.D.(ed. psychol) 27. PROF. PSYCHOL, MARY WASHINGTON COL, VIRGINIA, 26- AAAS; Psychol. Asn. Child psychology; psychology of personality. Address: Dept. of Psychology, Mary Washington College, Fredericksburg, Va. 22401.

DODD, PROF. J(AMES) H(ARVEY), b. Chester, Miss, Jan. 30, 92; m. 30. ECONOMICS, BUSINESS ADMINISTRATION. A.B, West. Ky. State Teachers Col, 24; Vanderbilt, 24-25; A.M, Peabody Col, 25, Ph.D, 28; Northwestern, 26. Instr. econ, Ward-Belmont Sch, Tenn, 25-26; assoc. prof. bus. admin, Franklin Col, 26-67; prof. ECON. & BUS. ADMIN, MARY WASHINGTON COL, VIRGINIA, 28-62, EMER. PROF, 62- Lectr, Am. Tel. & Tel. Co, D.C; Fulbright lectr, Univ. Philippines, 53-54; vis. prof, United Col. Hong Kong, 62-63. Econ. Asn. Publ: Principles of business; Applied economics: Economics: principles and applications. Address: Mary Washington College, Box 1205, Fredericksburg, Va. 22402.

DODD, DR. JOSEPH WILLIAM, b. Henrico Co, Va, Dec. 20, 33; m. 65; c. 1. POLITICAL SCIENCE. B.A. Col. William & Mary, 61; M.A, Tulane, 65, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, TENNESSEE, 66- U.S.C.G, 52-56. Polit. Sci. Asn, Asn. Asian Studies. Southeast Asian politics and international relations, especially the Republic of the Philippines. Publ: Criminal jurisdiction under the United States-Philippine status of forces agreement, Martinus Nijhoff, 68. Address: 1425 Lakeland Dr, Knoxville, Tenn. 37919.

DODD, DR. PAUL A(LBERT), b. Greenwood, Mo, July 26, 02. ECONOMICS. A.B, Park Col, 24, LL.D, 50; Harrison fel, Pennsylvania, 30-31, Ph.D, 32. Lectr. econ, California, Los Angeles, 32-33, asst. prof, 33-39, assoc. prof, 39-45, prof, 45-61, dean col. Letters & Sci, 46-61, dir, inst. indust. rels, 45-47, acting chmn. admin. cmt. deans, 52, acting acad. v.chancellor, univ. 59-60; pres, San Francisco State Col, 62-66; SPEC. ASST. TO PRES, CALIFORNIA, BERKELEY, 67- Dir, Med. Econ. Surv, Calif, 34-39; fed. maritime arbitrator ports, South. Calif, 35-39, 40; Rockefeller fel, Australasia, 40-41; adv. to premier, Sask, Can, 45-46; gov, Calif, 47; spec. adv, Middle East Tech, Ankara, 60-61. Regional v.chmn, War Labor Bd, 42-43, assoc. pub. mem, 42-45, chmn. incentive cmt, 43; co-chmn, Nat. Shipbuilding Cmt, 43-44; mem, regional cmt, Markle Found, 48; chmn, west area fel. cmt, fund adv. ed, Ford Found, 50-54. Econ. Asn; Statist. Asn; Indust. Rel. Res. Asn; Acad. Arbit. Social insurance and industrial relations; financial policies in the aviation industry; management of labor relations. Address: University of California, 701 University Hall, Berkeley, Calif. 94720.

DODD, PROF. STUART C(ARTER), b. Talas, Turkey, Oct. 3, 00. SOCIOLOGY. B.S, Princeton, 22, Nat. Res. Coun. fel, 23-26, A.M, 24, Ph.D, 26. Psychologist, State Home for Boys, N.J, 22-23; Nat. Res. Coun. & Rockefeller fels, London, 26-27; adj. prof. sociol, American Univ. Beirut, 27-30, assoc. prof, 30-36, prof, 36-47, dir. soc. sci. res. sect, 29-47; dir. pub. opinion lab, WASHINGTON (SEATTLE), 47-61, PROF. SOCIOL, 61-, Ames lectr, 46. Lectr, New Mexico, 42; Denmark & Beirut, 68. Gold Order of the Cedar, Lebanese Repub, 47; Merit award, Am. Humanist Asn, 63. U.S.A, 43-44, Lt. Col. Sociol. Res. Asn; Sociol. Asn; Statist. Asn; Asn. Pub. Opinion Res; World Asn. Pub. Opinion Res. Systematic sociology; semantics in sociology; polling methodology; scient-scales; likability models. Publ: Systematic social science; Dimensions of society; Reiteration rule, Synthese. Address: Dept. of Sociology, Institute for Sociological Research, University of Washington, Seattle, Wash. 98105.

DODDS, PROF. GEORGE E(MERSON), b. Beaver, Pa, May 18, 04. POLITICAL SCIENCE. B.S, Col. Wooster, 28; fel, Yale, 32-33, Ph.D, 39; A.M, Columbia, 35. PROF. polit. & soc. sci, Findlay Col, 37-46; POLIT. SCI, TRANSYLVANIA, 46-, HEAD DEPT. HIST. & POLIT. SCI, 47- Polit. Sci. Asn; Acad. Polit. Sci. Local government in England and the United States. Address: 131 University Ave, Lexington, Ky. 40503.

DODGE, DR. DAVID L, b. Concord, N.H, Aug. 16, 31; m. 52; c. 5. SOCIOLOGY. A.B, San Diego State Col, 58; Nat. Inst. Ment. Health fel. & Ph.D. (sociol), Oregon, 63. Summer vis. asst. prof. SOCIOL, Oregon, 63; ASST. PROF, San Francisco State Col, 63-65; San Diego State Col, 65-67; NOTRE DAME, 67- Sociol. Asn; Pop. Asn. Social stress and illness; juvenile delinquency; deviant behavior; medical sociology. Address: Dept. of Sociology & Anthropology, University of Notre Dame, South Bend, Ind. 46556.

DODGE, PROF. DOROTHY RAE, b. Mason City, Iowa, Mar. 17, 27. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Minnesota, 49, M.A, 50, Ph.D, 55. Assoc. prof. POLIT. SCI, MACALESTER COL, 57-67, PROF, 67- Polit. Sci. Asn. Publ: African politics in perspective, Van Nostrand, 66; Isolationism-internationalism in Minnesota, 1940-1960. Address: 5652 Colfax S, Minneapolis, Minn. 55419.

DODGE, ERNEST S(TANLEY), b. Trenton, Maine, Mar. 18, 13; m. 38; c. 2. ANTHROPOLOGY. Harvard, 36-37; hon. M.A, Marlboro Col, 61, Guggenheim fel, 61-62. Asst, PEABODY MUS. SALEM, 31-37, from asst. curator to CURATOR ETHNOL, 37-, DIR, 50-, asst. dir, 46-50. Lectr, Lowell Inst, 62. Ed, Am. Neptune, 50- Fel. Anthrop. Asn; Ethnol. Soc; Ornith. Union; Am. Acad. Arts & Sci; Soc. Ethnohist.(pres, 66-67); fel. Royal Anthrop. Inst. Gt. Brit. Polynesian material culture, customs and folklore; northeastern Algonkian Indian ethnography. Publ: Northwest by sea, Oxford Univ,

61; New England and the South Seas, Harvard, 65. Address: Peabody Museum of Salem, 161 Essex St, Salem, Mass. 01970.

DODGE, DR. GALEN WAYNE, b. Shickley, Nebr, July 17, 30; m. 51; c. 4. EDUCATIONAL PSYCHOLOGY. A.B, Kearney State Col, 51; Ed.M, Nebraska, 55, Ed.D.(ed. psychol), 62. Dir. guid, high sch, Nebr, 57-58; consult. for ment. retarded, State Dept. Ed, Nebr, 58-60, dir. spec. ed, 60-63; counseling psychologist, Vet. Admin, 63-65; assoc. prof. ed. psychol. & dir. guid. & counseling, Peru State Col, 65-67; ASSOC. DIR. NEBR. HUMAN RESOURCES RES. FOUND, UNIV. NEBRASKA, 67- Mem, Coun. Except. Children. U.S.A.R, 52-, Capt. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn. Predicting teacher success. Publ: Co-auth, Nebraska services for handicapped children, Nebr. State Dept. Ed, 58 & Teacher-pupil rapport and student teacher characteristics, J. Ed. Psychol, 56. Address: Love Library 2, University of Nebraska, Lincoln, Nebr. 68508.

DODGE, PROF. GUY H, b. Jefferson, Ohio, Oct. 4, 10; m. 42; c. 2. POLITICAL SCIENCE. A.B, Western Reserve, 33; A.M, Harvard, 37, Sheldon traveling fel, Europe, 38-39, Ph.D, 42. Instr. POLIT. SCI, BROWN, 41-44, asst. prof, 44-48, assoc. prof, 48-51, PROF, 51-, chmn. dept, 50-62. Fulbright fel, France & Am. Philos. Soc. grant, 49-50. Toppan prize, Harvard. Political theory; political theory of the Huguenots of the Dispersion. Address: Dept. of Political Science, Brown University, Providence, R.I. 02912.

DODGE, PROF. H(ARRY) ROBERT, b. St. Louis, Mo, Sept. 17, 29; m. 60. MARKETING, STATISTICS. B.Sc, Ohio State, 51, M.B.A, 54, Ph.D.(bus. orgn), 62; Southern Pacific fel, 60. Instr. bus. orgn, Nebraska, 54-55; Ohio State, 55-57; asst. prof. mkt, Fla. State, 57-58; consult, Knox Assocs. Inc, Ohio, 58-59; asst. prof. MKT, Calif. State Col. Los Angeles, 59-64; assoc. prof, Texas, Arlington, 64-65; PROF, MEMPHIS STATE, 65- South. Calif. Edison summer fel. bus, 64. Officer & managing dir, Mkt. Consults, Inc, 67- U.S.A, 52-53, Res, 53-, Capt. Mkt. Asn. Industrial and consumer goods. Publ: Measuring your image—key to planning and controlling promotive efforts, Banking Pub. Rels. & Mkt. J, 2/68; co-auth, Discrimination in retail institutional preference, J. Retailing, (in press). Address: Dept. of Marketing, Memphis State University, Memphis, Tenn. 38111.

DODGE, DR. JOAN S(OMMER), b. New York, N.Y, Jan. 29, 25; m. 48; c. 1. SOCIAL PSYCHOLOGY. A.B, Queens Col.(N.Y), 47; M.A, Connecticut, 49; Ph.D.(psychol), Illinois, 55. Asst. PSYCHOL, Connecticut, 47-49, instr, 49-50; asst, Illinois, 51-55, instr. & res. assoc, 55-56; res. assoc, Sloan Inst. Hosp. Admin, CORNELL, 56-58, res. psychologist, dept. child develop. & family rel, 58-59, PRIN. INVESTR, SLOAN INST. HOSP. ADMIN, 59- U.S. Pub. Health Serv. grant, 64-68. Psychol. Asn. Relation of interpersonal attitudes to interpersonal behavior; nature of these relationships in patient care; cognitive needs under conditions of physical stress. Publ: Nurses' sense of adequacy and attitudes toward keeping patient informed, J. Health & Human Behav; Nurse-doctor relations and attitude toward the patient, Nursing Res; How much should the patient be told and by whom, Hospitals, 12/63. Address: Graduate School of Business & Public Administration, 309 Malott Hall, Cornell University, Ithaca, N.Y. 14850.

DODGE, DR. NORTON T(OWNSHEND), b. Oklahoma City, Okla, June 15, 27. ECONOMICS. A.B, Cornell, 48; Rotary Found. fel, Stockholm, 48-49; M.A, Harvard, 51, fel, 53-56, Ph.D, 60. Instr. ECON, Vermont & Wellesley Col, 52-53; MARYLAND, 56-60, asst. prof, 60-65, ASSOC. PROF, 65- Ford Found. faculty fel, 61-62. Consult, coun. econ. & indust. res. & center int. studies, Mass. Inst. Tech; trustee, St. Mary's Col.(Md), 67- Econ. Asn; Economet. Soc; Asn. Adv. Slavic Studies; Acad. Polit. & Soc. Sci. Comparative economic systems; soviet economics and education; women in the soviet labor force. Publ: Women in the soviet economy, Johns Hopkins, 66. Address: Dept. of Economics, University of Maryland, College Park, Md. 20742.

DODGE, DR. PETER, b. New York, N.Y, Nov. 12, 26; m. 52; c. 2. SOCIOLOGY. B.A, Swarthmore Col, 48; A.M, Harvard, 50, Ph.D, 61; Fulbright fels, Brussels, Belgium, 54-56. Instr. sociol. & hist, Harpur Col, 58-61, asst. prof, 61-64; ASSOC. PROF. SOCIOL, NEW HAMPSHIRE, 64- Rockefeller Found. vis. scholar, Inst. Latin Am. Studies, Columbia, 65-66; Soc. Sci. Res. Coun. grant, Brazil, 68-69; summer fel, inst. comp. sociol, Indiana, 68. U.S.A, 45-46. Sociol. Asn; Latin Am. Studies Asn; Int. Studies Asn. Social stratification; comparative institutional analysis, with particular attention to the sociology of economic development; Latin America, particularly Brazil; the Soviet Union; culture, personality, and society. Publ: Beyond Marxism: the faith and works of Hendrik de Man, Nijhoff, 66; Ethnic fragmentation and politics: the case of Surinam, Polit. Sci. Quart, 12/66; Comparative racial systems in the Greater Caribbean, Soc. & Econ. Studies, 9/67. Address: Dept. of Sociology, University of New Hampshire, Durham, N.H. 03824.

DODGE, PROF. ROBERT E(DWARDS), b. Ashland, Ore, Sept. 8, 12; m. 38; c. 2. BUSINESS ADMINISTRATION, MARKETING. B.A, Oregon, 34, fel. & M.A, 51; Ph.D, N.Y. Univ, 56. Buyer & co-owner, J.P. Dodge & Sons, 34-50; instr, Tobe-Coburn Sch. Fashion Careers, 51-52; sch. retailing, N.Y. Univ, 52; asst. prof. bus. admin, Oregon, 53-58, assoc. prof, 59; PROF. BUS. ADMIN, PORTLAND STATE COL, 59- Owner, The Mart, 34-50. Mkt. consult, various co, 59- Characteristics of the older market, particularly shopping patterns and customer behavior; psychological aspects of salesmanship; retailing, particularly concerning trading stamps and discount houses. Publ: Selling the older consumer & How discount selling has influenced department stores, J. Retailing; Purchasing habits and marketing potentialities of the older consumer, Law & Contemporary Probs. Address: School of Business Administration, P.O. Box 751, Portland State College, Portland, Ore. 97207.

DODGE, PROF. STANLEY D(ALTON), Geog, see 10th ed, Soc. & Behav. Vols, deceased 66.

DODSON, PROF. DAN W(ILLIAM), b. Mt. Vernon, Tex, June 4, 07; m. 37; c. 2. SOCIOLOGY. B.A, McMurry Col, 31, LL.D, 57; M.A, Southern Methodist, 36; fel, N.Y. Univ, 36-38, Ph.D, 41. Instr. Ed. sociol, N.Y. UNIV, 38-41, asst. prof, 41-47, assoc. prof, 47-50, prof, 50-64, PROF. ED. SOCIOL. & ANTHROP. & CHMN. DEPT, 64-, DIR. CENTER HUMAN RELS. & COMMUNITY STUDIES, 57- Consult, Bd. Ed, D.C, 53-54; human rels. workshops, Miami (Fla), 52-55; Rutgers, 53-54; Brooklyn Col, 54-55; Toledo, 54-55; Houston, 55. Ed-in-chief, J. Ed. Sociol, 43-63. Exec. dir, Mayor's Cmt. on Unity, New York, 44-47. Lasker award, Am. Pub. Health Asn, 53; Merrill award, 61. Fel. Sociol. Asn; Soc. Study Social Probs; Asn. Intergroup Rels. Officials; Acad. Polit. & Soc. Sci. American community; intergroup relations. Publ: Power versus process in community organization; Role of the YWCA in a changing era; Interpreting the inner city. Address: Dept. of Educational Sociology & Anthropology, New York University School of Education, Washington Square, New York, N.Y. 10003.

DODSON, DR. EDWARD N, b. Annapolis, Md, Apr. 25, 33; m. 57; c. 3. ENGINEERING, ECONOMICS. B.E, Yale, 54; M.S, Mass. Inst. Tech, 61; A.P. Sloan & Standard Oil (Ohio) fels. & Ph.D.(bus. econ), Stanford, 66. Engr, Raytheon Co, 56-59, asst. to mgr. serv. div, 59-61, sr. engr, 61-62, mgr. prod. planning, 62-63; STAFF MEM, Stanford Res. Inst, 64-65; GEN. RES. CORP, 66- U.S.N, 54-56, Lt. Econ. Asn; Opers. Res. Soc. Economic analysis of public enterprise, especially urban transportation. Publ: On supply and demand for urban transportation, 67 & A user cost function for urban transportation, 67, Gen. Res. Corp. Address: 908 El Rancho Rd, Santa Barbara, Calif. 93103.

DODSON, PROF. JACK E(LWOOD), b. Burkburnett, Tex, July 7, 24; m. 45. SOCIOLOGY. B.A, N.Tex. State Col, 50; M.A, Texas, 51, Ph.D, 55. Asst. prof. SOCIOL, Southwestern at Memphis, 54-55; instr, Texas, 55-56; asst. prof, Tex. Col. Arts & Indust, 56-57; assoc. prof. & chmn. dept, Oklahoma, 57-64; ASSOC. PROF, HOUSTON, 64- U.S.A.A.F, 43-45. Sociol. Asn. Stratification; demography; institutions. Address: Dept. of Sociology, University of Houston, Cullen Blvd, Houston, Tex. 77004.

DODSON, DR. LINDEN S(EYMOUR), Sociol, see 10th ed, Soc. & Behav. Vols.

DODWELL, PROF. PETER CARPENTER, b. Ootacamund, India, Mar. 13, 30; m. 53; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Oxford, 53, Dr. Phil (psychol), 58. Asst. lectr. PSYCHOL, Birkbeck Col, Univ. London, 55-58; asst. prof, QUEEN'S (ONT), 58-63, assoc. prof, 63-65, PROF, 65-, R.S. MacLaughlin res. prof, 63-64. C.D. Howe & Guggenheim fels, 66-67; fel, center adv. study behav. sci, Stanford, 68-69. R.E.M.E, 49-50, 1st Lt. Can. Psychol. Asn; Psychonomic Soc; Brit. Exp. Psychol. Soc. Visual pattern recognition and discrimination learning; temporal processes in vision; concept development in children; logic of scientific explanation. Publ: Children's understanding of number and related concepts, Can. J. Psychol, 60; A coupled system for coding and learning in shape discrimination, Psychol. Rev, 64; A model for adaptation to distortions of the visual field, In: Models for the perception of speech and visual form, M.I.T. Press, 67. Address: Dept. of Psychology, Queen's University, Kingston, Ont, Can.

DOEBELE, PROF. WILLIAM A(UGUST), b. Philadelphia, Pa, Mar. 14, 27; m. 57; c. 3. CITY & REGIONAL PLANNING. A.B, Princeton, 48; LL.B, Harvard, 51; M.C.P, California, Berkeley, 56; Pennsylvania, 56-57. Vis. lectr. city planning & law, Pennsylvania, 57; law sch, HARVARD, 58, asst. res. prof. city planning, GRAD. SCH. DESIGN, 58-62, assoc. prof. CITY & REGIONAL PLANNING, 62-64, PROF, 64-, ASSOC. DEAN FOR DEVELOP, 65-, acting dean, summers 65-67. Consult, State Planning Off, N.Mex, 60; Harvard, Boston Univ. & Affil. Hosps. of Boston, 60-61; City of New Haven, Conn, 61; joint center urban studies, Mass. Inst. Tech. & Harvard Guyana Proj, Venezuela, 62-63. Draftsman, Zoning Adv. Cmn, Phila, Pa, 56-58; UN tech. asst. expert, Inst. Tech, Bandung, Indonesia, 59. U.S.N.R, 45-46. Law; problems of effectuating policies concerning urban and regional growth and redevelopment in the United States and developing nations; curriculum planning for education in city and regional planning. Publ: Education for planning in developing countries, Town Planning Rev, 7/62; Improved state enabling legislation for the nineteen sixties, Natural Resources J, 8/62; Zoning, In: Encyclop. Americana, 63. Address: Robinson Hall, Harvard University, Cambridge, Mass. 02138.

DOEHLER, PROF. EDWARD A(NDREW), Medieval Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DOEHRING, DR. DONALD G(ENE), b. Pittsburgh, Pa, Apr. 7, 27; m. 50; c. 4. EXPERIMENTAL PSYCHOLOGY. B.A, Buffalo, 49; M.A, New Mexico, 51; Ph.D.(psychol), Indiana, 54. Res. assoc, Cent. Inst. Deaf, Fla, 54-59; from asst. prof. to assoc. prof. psychol, dept. neurol. & res. assoc, inst. psychiat. res, sch. med, Indiana, 59-63; ASSOC. PROF. OTOLARYNGOL, McGILL, 63-, PSYCHOL, 65-, DIR. SCH. HUMAN COMMUN. DISORDERS, 63- U.S.A, 44-47. Psychol. Asn; Psychonomic Soc; Soc. Res. Child Develop. Normal and pathological verbal processes in adults and children; auditory perception; programmed instruction. Publ: Visual spatial memory in aphasic children, J. Speech & Hearing Res; Accuracy and consistency of time estimation by four methods of reproduction, Am. J. Psychol; co-auth, Behavioral consequences of brain damage associated with homonymous visual field defects, J. Comp. & Physiol. Psychol. Address: School of Human Communication Disorders, McGill University, Montreal, Que, Can.

DOENGES, DEAN BYRON F, b. Ft. Wayne, Ind, June 18, 22; m. 47. ECONOMICS. A.B, Franklin Col, 46; M.B.A, Indiana, 48, Ph.D.(econ, higher ed), 62. Instr. math. & Am. lit, Punahou Sr. Acad, Hawaii, 48-50; dir. scholar. & loans, Indiana, 51-56, asst. dean arts & sci, 55-65; PROF. ECON. & DEAN COL. LIB. ARTS, WILLAMETTE, 65- Prog. develop. chief, Nat. Defense Ed. Act-Title II, Dept. Health, Ed. & Welfare, D.C, 58-59; assoc. staff resident, Salzburg Seminar Am. Studies, Austria, 62-64. Consult, U.S. Off. Ed, 59-62. Mem. need anal. cmt, Col. Entrance Exam. Bd, 55-57. U.S.N.R, 43-46, Lt. Comdr. Econ. Asn; Soc. Int. Develop; Brit. Asn. Lib. Ed. International capital movements; economics of higher education. Address: Willamette University, Salem, Ore. 97301.

DOENGES, DR. RUDOLPH CONRAD, b. Tonkawa, Okla, Dec. 7, 30; m. 63; c. 1. BUSINESS ADMINISTRATION, ECONOMICS. Harvard Nat. Scholar, Harvard, 48-54, A.B, 52, M.B.A, 54; univ. fel, Colorado, 62-63, Ford Found.

fel, 63-64, D.B.A.(finance), 65. Gen. mgr, Doenges-Long Motors, 58-61; asst. FINANCE, Colorado, 61-64; asst. prof, TEXAS, 64-67, ASSOC. PROF, 67- U.S.N, 54-58, Res, 58-, Lt. Comdr. Econ. Asn; Finance Asn. Financial management of business finance; business history; business policy. Publ: Co-auth, Case problems in financial management, 68 & co-ed, Readings in money and banking, 68, Appleton; auth, Transitory income size and savings, South. Econ. J, 10/66. Address: Dept. of Finance, University of Texas, Austin, Tex. 78712.

DOERFLER, ERNEST, Econ, see 10th ed, Soc. & Behav. Vols.

DOERR, PROF. ARTHUR H(ARRY), b. Johnston City, Ill, Aug. 28, 24; m. 47. GEOGRAPHY. B.A, Southern Illinois, 47; M.A, Indiana, 48; Ph.D, Northwestern, 51. Field team chief, soc. sci. res. center, Univ. Puerto Rico & P.R. Dept. Agr. & Commerce, 50; from asst. prof. to assoc. prof. GEOG, OKLAHOMA, 51-60, PROF, 60-, assoc. dean grad. col, 60-61, dean, 61-65. Fulbright prof, Philippines, 58-59; chief of party, Pennsylvania Develop. Proj. for Pahlavi Univ, Iran, 66-67. Distinguished Prfnl. Achievement award, Southern Illinois, 65. U.S.A.A.F, 43-46. AAAS; Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic geography; geomorphology; human geography. Publ: Co-auth, Principles of geography, 59 & Principles of physical geography, 64, Barron's; A laboratory manual for physical geography, Land, 66. Address: Dept. of Geography, University of Oklahoma, Norman, Okla. 73069.

DOERRING, DR. PAUL LUTHER, b. Bellvue, Iowa, Apr. 26, 31; m. 53; c. 3. CLINICAL & EDUCATIONAL PSYCHOLOGY. B.S, Macalester Col, 54; M.A, Stanford, 57, Ph.D.(psychol), 62. Clin. psychologist, sch. med, Stanford, 58-60; Des Moines Child Guid. Center & Day Patient Hosp, Iowa, 60-62; supvr. clin. training, Merrill-Palmer Inst, Detroit, 62-67; DIR. PSYCHOL. INSTS. MICH, 67- Consult, juvenile parolee proj, Iowa State Bd. Control, 61-62; Therapeut. Presch. Proj, Merrill-Palmer Inst, 63-67; Cranbrook Sch, Bloomfield Hills, 68- U.S.A, 54-56. Psychol. Asn; Orthopsychiat. Asn; Asn. Marriage Counsr. Psychopathology of the central nervous system in children; psychotherapy; development of models of psychological consultation; psychological dynamics of the corporation executive. Publ: Co-auth, Role of a teacher in a therapeutic preschool, Papers Coun. Except. Children, 65 & Communication of psychopathology through three generations, Family Life Coord, 68. Address: 5728 Sutters Lane, Birmingham, Mich. 48010.

DOHERTY, DR. ANTHONY NOEL, b. N.Y, Dec. 21, 37; m. 60; c. 2. ECONOMICS. B.S, Fordham, 60; Ph.D.(econ), Tulane, 65. ASST. PROF. ECON, Oklahoma, 63-66; ST. JOHN'S (N.Y), 66- Consult. ed, D.C. Heath & Co. Econ. Asn. Economic analysis of United States antitrust laws; theory of price discrimination in oligopolistic markets; relationship of Marxist principles to Soviet economics. Publ: Construction of econometric models, St. John's Univ, 6/68; Buyer liability under the price discrimination law: an economic analysis, Part I, Antitrust Law & Econ. Rev. Address: Dept. of Economics, St. John's University, Jamaica, N.Y. 11432.

DOHERTY, DR. HERBERT J(OSEPH), JR, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DOHERTY, DR. MICHAEL E(DWARD), b. New York, N.Y, Oct. 20, 35; m. 58; c. 3. PSYCHOLOGY. B.S, Manhattan Col, 56; M.A, Connecticut, 62, Ph.D. (psychol), 65. Instr. PSYCHOL, Connecticut, 63-65; ASST. PROF, BOWLING GREEN STATE, 65- U.S.A, 58-61. Psychol. Asn. Psychophysics; absolute judgment; applications of information theory to psychology. Publ: Response bias and Murdock's D scale, Psychol. Bull, 66; Information and discriminability as determinants of absolute judgment chore reaction time, Perception & Psychophys, in press. Address: Dept. of Psychology, Bowling Green State University, Bowling Green, Ohio 43402.

DOHERTY, RICHARD P, Econ, see 10th ed, Soc. & Behav. Vols.

DOHRENWEND, DR. BARBARA SNELL, b. New York, N.Y, Mar. 26, 27; m. 51. SOCIAL PSYCHOLOGY. B.A, Wellesley Col, 47; M.A. Columbia, 48, Ph.D. (psychol), 54. Res. asst. soc. psychol, Michigan, 49-51; res. assoc, Cornell, 52-57; res. asst. prof, N.Y. Univ, 58-61, lectr. PSYCHOL, CITY COL. NEW YORK, 61-64, ASST. PROF, 64- Nat. Inst. Ment. Health grant, study measurement stress situations, 66-68. Consult, Pop. Coun, 67- AAAS; Psychol. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues. Social factors in the etiology of psychological disorder; techniques of research interviewing. Publ: Co-auth, Interviewing: its forms and functions, Basic Books, 65; The effects of open and closed questions on respondents' answers, Human Orgn, 65; co-auth, The problem of validity in field studies of psychological disorder, J. Abnorm. Psychol. & Int. J. Psychiat, 65. Address: Dept. of Psychology, City College of New York, New York, N.Y. 10031.

DOHRENWEND, DR. BRUCE P(HILIP), b. New York, N.Y, July 26, 27; m. 51. SOCIAL PSYCHOLOGY. B.A, Columbia, 50, M.A, 51; N.Y. State War Serv. scholar, Cornell, 51-54, Ph.D.(soc. psychol), 55. Asst, bur. appl. soc. res, Columbia, 51-52; asst. soc. sci. res. center, Cornell, 52-54, res. assoc. sociol. & anthrop, 54-58; psychiat, COLUMBIA, 58-63, asst. prof. SOC. PSYCHIAT, 63-67, ASSOC. PROF, 67- Prin. investr. res. grants, Nat. Inst. Ment. Health, 62- & consult, Center Epidemiol. Studies, 67- Mem. res. adv. cmt, William Alanson White Inst, 66- U.S.N.R, 45-46. AAAS; Psychol. Asn; Sociol. Asn; Pub. Health Asn. Social and psychological factors in the precipitation and appraisal of abnormal behavior; methodology of social research. Publ: Co-auth, The problem of validity in field studies of psychological disorder, J. Abnorm. Psychol, 2/65; auth, Social status and psychological disorder: an issue of substance and an issue of method, Am. Sociol. Rev, 2/66; co-auth, Some relations among psychiatric symptoms, organic illness, and social class, Am. J. Psychiat, 6/67. Address: Research Unit, Columbia University, 128 Ft. Washington Ave, New York, N.Y. 10032.

DOHRS, PROF. FRED E, b. Chicago, Ill, Nov. 21, 17; m. 55; c. 2. GEOGRAPHY. B.S, Northwestern, 42, M.A, 48, Ph.D.(geog), 50; Carnegie fel, Arctic Inst, 48. From asst. prof. to PROF. GEOG. & CHMN. DEPT, WAYNE STATE, 50- Consult, U.S. Naval War Col, 58. U.S.A.A.F, 42-46, Lt. Col. Asn. Am. Geog; fel. Am. Geog. Soc; fel. Nat. Coun. Geog. Ed; fel. Royal Geog. Soc. Soviet Union; Eastern Europe; political geography. Publ: Readings in geography; Soviet Union. Address: Dept. of Geography, Wayne State University, Detroit, Mich. 48202.

DOI, ARTHUR N(OBUO), Statist, see 10th ed, Soc. & Behav. Vols.

DOIG, DR. JAMESON W(ALLACE), b. Oakland, Calif, June 12, 33; m. 55; c. 3. POLITICAL SCIENCE. A.B, Dartmouth Col, 54; M.P.A, Princeton, 58, Ph.D. (polit), 61. Res. staff govt. studies, Brookings Inst, 59-61; asst. prof. POLIT. & PUB. AFFAIRS, PRINCETON, 61-67, ASSOC. PROF, 67- Vis. assoc. prof, City Univ. New York, 67-68. Consult, Fels Fund, 66-67. U.S.N, 54-56, Lt.(jg). Polit. Sci. Asn; Soc. Pub. Admin. Urban and metropolitan problems; public administration; organizational behavior. Publ: Co-auth, The assistant secretaries, Brookings, 65; auth, Metropolitan transportation problems and the New York region, Columbia, 66; co-auth, Men who govern, Brookings, 67. Address: Woodrow Wilson School, Princeton University, Princeton, N.J. 08540.

DOLAN, PROF. CHARLES R, b. Bangor, Maine, June 9, 14; m. 44; c. 1. EDUCATIONAL PSYCHOLOGY, GUIDANCE. A.B, Colby Col, 38; M.A, Maine, 48; fel, Boston, 54-55, Ed.D, 60. Rehab. training officer, Vet. Admin, Bangor, Maine, 46-48; teacher & coach, high sch, Maine, 48-50, teacher,, Mass, 50-54; state dir. guid, N.H, 55-60; asst. prof. ed. & psychol, Rhode Island, 60-66, coordinator counseling center, 64-66; ASSOC. PROF. COUNSR. ED, BRIDGEPORT, 66- Vis. lectr, Keene Teachers Col, Plymouth Teachers Col. & New Eng. Col, 55-60; vis. instr, Boston, 55-60. Consult, State Dept. Ed, R.I, 61- Secy, Cmt. Ment. Retarded, N.H. 55-60. U.S.A, 41-46, Res, 46-67, Maj. Personnel & Guid. Asn; Psychol. Asn; Asn. Counsr. Ed. & Supv; Col. Personnel Asn; Voc. Guid. Asn. Guidance and special education associated with public education; student counseling. Address: 9C, Fones Hall, University of Bridgeport, Bridgeport,Conn. 06602.

DOLAN, DEAN J(OHN) P(ATRICK), b. Kankakee, Ill, June 5, 11. SOCIOLOGY. A.B, Loyola (Ill), 39; M.A, St. Louis, 40. From asst. prof. to ASSOC. PROF. SOCIOL. & PHILOS, ST. AMBROSE COL, 44-, DEAN STUDIES, 52- Ed. consult, Rock Island Arsenal, Ill, 55- Sociol. Asn. Education; industrial psychology; psychology of learning. Address: Dept. of Philosophy, St. Ambrose College, Davenport, Iowa 52803.

DOLAN, PROF. PAUL, b. Philadelphia, Pa, May 13, 10. POLITICAL SCIENCE. B.S, Pennsylvania, 33, A.M, 36; Ph.D, Hopkins, 50. Instr. DELAWARE, 40-48, asst. prof. POLIT. SCI, 48-49, assoc. prof, 50-61, PROF, 61- Fulbright grant, Germany, 56-57. Mem, Del. Coun. Admin. Justice; chmn, Planning Cmn, Newark, Del. U.S.N, 43-45. Legislative process in the United States; changing concepts in the constitutional pattern in the United States. Publ: Government and administration of Delaware; Organization of state administration in Delaware; co-auth, Case for democratic capitalism, Crowell, 64. Address: Dept. of Political Science, University of Delaware, Newark, Del. 19711.

DOLAN, DR. ROBERT JOHN, b. Bogalusa, La, May 5, 28; m. 53; c. 4. SOCIOLOGY. B.S. La. State, 49, M.S, 58, Ph.D.(sociol), 63. Asst. county agent, agr. exten, La. State, 49-50, assoc. county agent, 54-58; exten. rural sociologist, 59-60, assoc. prof. agr. ed, univ. & assoc. training specialist, agr. exten, 61-64; assoc. prof. SOCIOL. & ADULT ED, N.C. STATE, 64-68, PROF, 68-, STATE TRAINING LEADER, AGR. EXTEN, 64- U.S.A, 50-54, 1st Lt. Rural Sociol. Soc; Adult Ed. Asn. U.S; Cmn. Prof. Adult Ed. Adult education; leadership; leadership development; organization; organizational processes. Address: Dept. of Adult Education & Sociology, North Carolina State University, 113 Ricks Hall, Raleigh, N.C. 27607.

DOLAND, DR. DILMAN J(OHN), b. Onslow, Iowa, Dec. 31, 20; m. 50. PSYCHOLOGY. Ph.D.(psychol), Syracuse, 53. From asst. prof. to ASSOC. PROF. PSYCHOL, SMITH COL, 53- U.S.N, 42-45. Psychol. Asn. Personality theory; psychotherapy; psychological testing. Address: 25 Tyler Court, Northampton, Mass. 01060.

DOLBEARE, DR. KENNETH M(ARSH), b. Mineola, N.Y, Jan. 25, 30; m. 65. POLITICAL SCIENCE. B.A, Haverford Col, 51; Ph.D.(polit. sci), Columbia, 65. Instr. POLIT. SCI, Hofstra, 60-65; ASST. PROF, WISCONSIN, 65- Consult, Nat. Adv. Cmn. Selective Serv, 66-67. U.S.N, 51-54, Lt.(jg). Public policies and political change in the United States. Publ: Trial courts in urban politics, Wiley, 67; co-auth, Little groups of neighbors: the selective service system, Markham, 68. Address: Dept. of Political Science, University of Wisconsin, Madison, Wis. 53706.

DOLBY, DR. JAMES L(OUIS), b. Philadelphia, Pa, Apr. 29, 26; m. 50; c. 5. STATISTICS. A.B, Dartmouth Col, 46; M.A, Wesleyan, 49; Ph.D.(statist), Stanford, 66. Actuarial asst, Pa. Mutual Life Ins. Co, 46-47; math. physicist, Belding Corticelli, 49-51; statistician, Gen. Elec. Co, 51-60; staff engr, Lockheed Aircraft Corp, 60-64; staff statistician, C-E-I-R, Inc, 64-65; vis. fel. comput. typesetting, Univ. Newcastle, 65-66; PARTNER, R & D CONSULT. CO, 65- Vis. statistician, Princeton, 66-67; assoc. prof, San Jose State Col, 66-; lectr, California, 68- Consult, U.S. Dept. Defense, 67- U.S.N, 44-46. Inst. Math. Statist; Statist. Asn; Asn. Mach. Trans. & Comput. Ling; Math. Asn; Document. Inst; Int. Asn. Statist. in Phys. Sci. Mathematical statistics; hyphenation machine. Publ: Co-auth, The computer and the library, Univ. Newcastle, 66 & Archon Books, 67; co-auth, The English word speculum, Vols. I-V, Mouton, 67; auth, A quick method for choosing a transformation, Technometrics, 63. Address: 366 W. Portola Ave, Los Altos, Calif. 94022.

DOLE, PROF. ARTHUR A(LEXANDER), b. San Francisco, Calif, Oct. 25, 17; m. 49; c. 3. PSYCHOLOGY. B.A, Antioch Col, 46; M.A, Ohio State, 49, Ph.D.(psychol), 51. Counsr, Ohio State, 48-51; asst. prof. psychol. & dir. bur. testing & guid, Hawaii, 51-60; assoc. prof. psychol, 60-66, PROF, 66-67; ED, GRAD. SCH. ED, PENNSYLVANIA, 67- Vis. scholar, indust. rels. center, Minnesota, 65; vis. prof, Teachers Col, Columbia, 66-67. Summers, U.S. Off. Ed. coop. res. grants, 60-65, lectr, California, 64, vis. fel, center study human probs, Stanford, 66. AAAS; Psychol. Asn. Vocational development; psychological counseling; disability; temporal orientation. Publ:

Follow-up studies of the determinants of educational-vocational choices, Univ. Hawaii, 65; co-auth, Incomplete sentences as a method in psychology, Ed. & Psychol. Measurement, 15:101-110 co-auth, Cultural differences in abilities during high school, Am. Ed. Res. J, 4:19-30. Address: Graduate School of Education, University of Pennsylvania, Philadelphia, Pa. 19104.

DOLE, DR. GERTRUDE E(VELYN), b. Cavendish, Vt, Oct. 10, 15; m. 52. CULTURAL ANTHROPOLOGY. A.B, Middlebury Col, 37; M.A, North Carolina, 49; Doherty Found. fel, Brazil, 53-54; Ph.D.(anthrop), Michigan, 57. Lectr. anthrop, New Sch. Soc. Res, 58; Columbia, 58-60, 61-62; field res. ethnographer, Am. Mus. Natural Hist, 60-61; lectr. anthrop, N.Y. Univ, 61-64, asst. prof, 64-65; vis. asst. prof, Vassar Col, 65-67. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc.(secy, 59-60). Cultural evolution; development of kinship nomenclatures; social organization; South American ethnology. Publ: Ed. & contrib, Essays in the science of culture; auth, The lineage pattern of kinship nomenclature, Southwest. J. Anthrop, 65; Anarchy without chaos: alternatives to political authority among the Kuikuru, In: Political anthropology, 66. Address: 4499 Henry Hudson Pkwy, New York, N.Y. 10471.

DOLINSKY, DR. RICHARD, b. Atlantic City, N.J, Oct. 4, 35; m. 62. PSYCHOLOGY. A.B, Syracuse, 57; Ph.D.(psychol), N.Y. Univ, 64. Res. psychologist, Walter Reed Army Inst. Res, 61-62; asst. prof. PSYCHOL, TOLEDO, 62-65, ASSOC. PROF, 65- Fel, inst. human learning, California, Berkeley, 65-66. Assoc. Psychol. Asn; Ling. Soc. Psycholinguistics and verbal behavior; memory; human learning. Publ: Human learning, W.C. Brown, 66; Backward learning in serial learning as a function of prior paired-associate training, Psychonomic Sci, 67; Changes in the dominance of word associations following verbal repetition, J. Verbal Learning & Verbal Behav, 67. Address: Dept. of Psychology, University of Toledo College of Arts & Sciences, Toledo, Ohio 43606.

DOLL, DR. EDGAR A(RNOLD), b. Cleveland, Ohio, May 2, 89; m. 38; c. 4. PSYCHOLOGY. A.B, Cornell, 12; Pd.M, N.Y. Univ, 16; fel, Princeton, 19-20, Ph.D.(psychol), 20. Instr. exp. psychol, Wisconsin, 12; asst. psychologist, res. lab, Training Sch, N.J, 12-17; chief psychologist & dir. div. ed. & classification, N.J. State Dept. Insts. & Agencies, 19-23; asst. prof. clin. psychol, Ohio State, 23-25; dir. res, res. lab, Training Sch, N.J, 25-49; CONSULT. ment. health, Bd. Ed, Vineland, N.J, 49-50; BELLINGHAM PUB. SCHS, 53-Lectr, N.Y. Univ, 15-16; California, 17; Cleveland Sch. Ed, 20; Northwestern, 24; dir, Bonnie Brae Farm for Boys, N.J, 43-44; vis. prof, Pennsylvania, 46-49. Expert consult, U.S. Secy. War; U.S. Army; ment. health consult, U.S. Pub. Health Serv; State Cerebral Palsy Center, Wash; Seattle Children's Orthopsychiat. Hosp. Chmn. subcmt. ment. deficiency & surv. & planning & emergency cmt. psychol, Nat. Res. Coun; mem, Gov. Cmt. Ment. Health & Ment. Retardation Planning, Wash, 65-67. Distinguished serv. cert, N.J. State Dept. Insts. & Agencies, 65. Sanit.C, 17-18, Lt. AAAS; Psychol. Asn.(distinguished serv. cert, 67); fel. Asn. Ment. Deficiency (v.pres, 34, pres, 35, distinguished serv. cert, 67); Orthopsychiat. Asn. (v.pres, 30, pres, 36): hon. mem. Acad. Cerebral Palsy; hon. mem. Royal Medico-Psychol. Asn. Clinical psychology; special education; cerebral palsy; educational attainment scale for measuring preschool achievement. Publ: The measurement of social competence; Vineland social maturity scale; Preschool attainment record. Address: Bellingham Public Schools, P.O. Box 878, Bellingham, Wash. 98225.

DOLL, PROF. JOHN P(HILIP), b. Ft. Benton, Mont, July 25, 31; m. 53; c. 6. AGRICULTURAL ECONOMICS. B.S, Mont. State Col, 53, M.S, 55; Ph.D. (agr. econ), Iowa State, 58; Minnesota, St. Paul, 67. Agr. economist, Tenn. Valley Authority, 57-58; assoc. prof, agr. econ, MISSOURI, 59-64, econ. & agr. econ, 64-67, PROF. ECON, 67- Nat. Sci. Found. fel. math, Stanford, 63-64; vis. prof, Minnesota, 67-68. Agr. Econ. Asn. Agricultural statistics; econometrics and economic theory. Publ: Co-auth, Economics of agricultural production marketing and policy, Irwin, 68; Economic analysis involving weather inputs, 11/61 & auth, Estimating weather indexes, 2/67, J. Farm Econ. Address: Dept. of Economics, University of Missouri, Columbia, Mo. 65201.

DOLL, DR. PADDY A(NN), b. Shreveport, La, July 31, 28. INDUSTRIAL PSYCHOLOGY. B.A, Centenary Col, 48; M.A, La. State, 52; fel, Houston, 61-64, Ph.D.(indust. psychol), 65. Student counsr, Texas, Austin, 52-53; personnel dir. to exec. v.pres, Doll Bros, La, 53-54; psychol. dir, St. Mary's Residential Training Sch, 54-56; dir. testing & guid, McNeese State Col, 56-61; asst. prof. psychol, LOYOLA (LA), 64-67, CHMN. DEPT. PSYCHOL. & PROJ. DIR, UPWARD BOUND, 66- Consult, La. Asn. Retarded Children, 54-60; consult. & speaker, Parent Teacher Asn. Pub. Health Conf, 57. Mem, President's Conf. Traffic Safety, 65. AAAS; Psychol. Asn; fel. Asn. Ment. Deficiency; Nat. Sci. Teachers Asn. Leadership; executive training; diagnostic testing. Publ: A comparative study of top level male and female executives in Harris County, Univ. Houston, 65; co-auth, Situational and personality factors in leadership among sorority women, Psychol. Monogr. Gen. & Appl, Vol. 67, No. 16. Address: Dept. of Psychology; Loyola University, 6363 St. Charles Ave, New Orleans, La. 70118.

DOLL, DR. RAYMOND J(OSEPH), b. Ellinwood, Kans, Feb. 29, 12; m. 39; c. 4. AGRICULTURAL ECONOMICS. B.S, Kans. State Col, 35, M.S, 38; Ph.D.(agr. econ), Minnesota, 48. Asst, Rural Resettlement Admin, Kans, 35; asst. county agent, Kans. State Col, 35-36, instr. agr. econ, 36-40; Minnesota, 40-41; asst. prof. agr. econ. Kans. State Col, 41-42, 45-47, assoc. prof, 47-49, prof, 49-51; agr. economist, FED. RESERVE BANK, 58-61, sr. economist, 61-63, V.PRES. & SR. ECONOMIST, 63- Chmn, agr. cmt, Fed. Reserve Syst. Adv. Cmn, 59-; sect. leader, Cent. States Grad. Sch. Banking, Wisconsin, 59- Distinguished Serv. award, Kansas State, 65. Instr, ground sch, U.S.A.A.F, 42-45. Agr. Econ. Asn. Farm management; agricultural policy in relation to the beef cattle industry. Publ: Some implications of monetary policy on agriculture, J. Farm Econ; Farm loans to finance intermediate-term investments, Fed. Reserve Bull; co-auth, Foreign trade and American agriculture, Fed. Reserve Bank Kansas City, 8/66. Address: Federal Reserve Bank, 925 Grand, Kansas City, Mo. 64198.

DOLLARD, PROF. JOHN, b. Menasha, Wis, Aug. 29, 00; m; c. 4. PSYCHOLOGY. A.B, Wisconsin, 22; A.M, Chicago, 30, Ph.D.(sociol), 31; hon. M.A, Yale, 52. Asst. to pres, Chicago, 26-29; Soc. Sci. Res. Coun. fel. soc. psychol, Germany, 31-32; researcher, inst. human rels, YALE, 32-52, PROF. PSYCHOL, 52- Res. consult, Secy. War, 42-45. U.S.A, 18. Fel. AAAS; fel. Psychol. Asn; fel. Am. Acad. Arts & Sci. Psychoanalytic theory; learning theory; psychotherapy. Publ: Co-auth, Personality and psychotherapy, McGraw, 50, Steps in psychotherapy, Macmillan, 53 & Scoring human motives, Yale, 59. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06520.

DOLLEY, PROF. JAMES C(LAY), b. Lebanon, Ill, Sept. 29, 00; m. 22; c. 1. FINANCE. A.B, McKendree Col, 19; A.M, Illinois, 23; Chicago, 25; Ph.D, California, 28. Asst. prof. BANKING, TEXAS, 28-29, assoc. prof, 29-35, PROF, 35-, FINANCE, 55-, v.pres, univ, 45-52, acting pres, 52-53, v.pres. fiscal affairs, 55-60, v.chancellor fiscal affairs, 60-66. Econ. adv, Fed. Reserve Bank, 43-44, dir. res, 44-45; pres, Austin Nat. Bank, 53-54. Econ. Asn; Finance Asn.(v.pres, 40); Financial Anal. Fedn.(v.pres, 66-67); Royal Econ. Soc. Investments; banking. Publ: Principles of investment. Address: Dept. of Finance, University of Texas, University Station, Austin, Tex. 78712.

DOLLIVER, DR. ROBERT HENRY, b. Ft. Dodge, Iowa, Oct. 15, 34; m. 60; c. 1. PSYCHOLOGY. B.A, Cornell Col, 58; M.A, Ohio State, 63, Ph.D.(psychol), 66. Soc. caseworker, Lorain County Child Welfare Bd, Ohio, 58-59; Cleveland Boys Sch, Hudson, Ohio, 59-61; COUNSELING PSYCHOLOGIST, MISSOURI, COLUMBIA, 66- U.S.A, 55-57, Res, 57-65. Psychol. Asn. Strong vocational interest blank; counseling. Publ: Expressive and instrumental as conceptualizations of counseling, J. Counseling Psychol, 65; A modification of the Tyler vocational card sort, Personnel & Guid. J, 67. Address: Dept. of Psychology, 222 Parker Hall, University of Missouri, Columbia, Mo. 65201.

DOLNICK, DAVID, Econ, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

DOLPHIN, DR. ROBERT, JR, b. Richmond, Va, June 7, 35; m. 62; c. 2. FINANCE. B.S, Indiana, 60, M.B.A, 61; Stonier fel. & D.B.A, (finance), Mich. State, 64. Teaching asst. bus, Indiana, 60-61; Mich. State, 61-64; asst. prof. FINANCE, Fla. State, 64-67; ASSOC. PROF. & CHMN. DEPT, WRIGHT STATE, 67- Ford Found. fel. bus. finance, Harvard. Consult, Consumer Credit Study Cmt, Tex. Econ. Asn; Finance Asn. Publ: Analysis of economic and personal factors leading to consumer bankruptcy, Mich. State, 65; co-auth, Readability and corporate annual reports, Acct. Rev, 4/64; auth, Characteristics of the financially distressed, Banking, 1/67. Address: Dept. of Finance, Wright State University, Colonel Glenn Highway, Dayton, Ohio 45431.

DOLVA, DEAN WENZIL K(ERMIT), Mkt, see 10th ed, Soc. & Behav. Vols, deceased.

DOMAR, PROF. EVSEY D(AVID), b. Lodz, Poland, Apr. 16, 14; nat; m. 46; c. 2. ECONOMICS. A.B, California, Los Angeles, 39; fel, Michigan, 40-41, A.M, 41; fel, Harvard, 41-43, A.M, 43, Ph.D.(econ), 47. Economist, Bd. Gov, Fed. Reserve Syst, 43-46; asst. prof. econ, Carnegie Inst. Tech, 46-47; asst. prof. & res. assoc, Cowles Cmn, Chicago, 47-48; assoc. prof. polit. econ, Hopkins, 48-55, PROF, 55-58; ECON, MASS. INST. TECH, 58-, vis. prof, 57, summer Ford Found. seminar, 61. Dir, Russian Studies of Oper. Res. Off, 49-51; vis. assoc. prof, Buffalo, 49; Columbia, 51-55; vis. Fulbright prof, Oxford, 52-53; fel, Center Adv. Study Behav. Sci, 62-63; vis. prof, Harvard, 62; Univ. of the Andes, Colombia, 65. Summers, instr, Stanford, 57, Harvard, 58, California, Los Angeles, 68. Consult, Rand Corp, 51-; Ford Found, 54-58, inter-univ. cmt. travel grants, 58-59; Brookings Inst, 56-59; Nat. Sci. Found, 58, 67-; Battelle Mem. Inst, 59-60; Orgn. European Econ. Coop, 61-62; Inst. Defense Anal, 61-62. Chmn, cmt. Slavic grants, Am. Coun. Learned Socs, 60-62; mem. exec. cmt, Nat. Conf. Res. Income & Wealth, 66- John R. Commons award, Omicron Delta Epsilon, 65. Econ. Asn; Econometr. Soc; fel. Am. Acad. Arts & Sci; Royal Econ. Soc. Economic growth and development; Soviet economics; productivity studies. Publ: Essays in theory of economic growth. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

DOMBROSE, DR. LAWRENCE A(NTHONY), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

DOMIKE, DR. ARTHUR LOUIS, JR, b. Santa Monica, Calif, Jan. 19, 26; m. 50; c. 3. AGRICULTURAL ECONOMICS. B.A, California, Los Angeles, 48; M.S, Wisconsin, 53, Ph.D.(agr. econ), 61. Coop. agent agr. econ, Univ. Minnesota & U.S. Dept. Agr, 53-55; asst. prof, Rhode Island, 55-58, assoc. prof, 58-62; economist, Inter Am. Cmt. Agr. Develop, 62-64; REGIONAL OFFICER, FOOD & AGR. ORGN. UN, 64- Ford Found. consult, Argentina, 64. Economist, basic res. group, mkt. econ. div, U.S. Dept. Agr, 61-62; dir, Study Agrarian Reform Financing Probs. Latin Am, 66-68. U.S.N, 44-46. AAAS; Econ. Asn; Agr. Econ. Asn. Agricultural policy; agriculture in economic development. Publ: Co-auth, Output responses of milk producers, Res. Bull, Univ. Rhode Island, 61; auth, Land tenure and socio-economic development of the agricultural sector of Argentina, Interam. Cmt. Agr. Develop, Wash, D.C, 12/65; co-auth, Agrarian structure in seven Latin American countries, J. Land Econ, 11/66. Address: 1864 Massachusetts Ave, McLean, Va. 22101.

DOMINGUEZ, DR. LORETO M(ARCELINO), b. Dec. 10, 15; m. 46; c. 2. ECONOMICS. M.B.A, Harvard, 41, M.A, 42, Ph.D.(econ), 54. Chief statist. unit, Cent. Bank Argentina, 43-44; economist, Inter-Am. Statist. Inst, 44-45; private res, Uruguay, 45-48; chief econ. res, Orgn. Am. States, 49-58; ECONOMIST, INT. BANK RECONSTRUCT. & DEVELOP, 59-, STAFF MEM, ECON. DEVELOP. INST, 65- Econ. adv, Inter-Am. Conf, Caracas, Venezuela, 54. National income. Publ: Contrib, National income estimates of Latin American countries, In: Studies in income and wealth; auth, International trade, industrialization and economic growth; Process of balanced economic growth, Social Res, winter 54. Address: 4905 Klingle St. N.W, Washington, D.C. 20016.

DOMINO, DR. GEORGE, b. Torino, Italy, June 13, 38; U.S. citizen; m. 65; c. 2. PSYCHOLOGY. B.S, Loyola (Calif), 60; U.S. Pub. Health Serv. fel, California, Berkeley, 63-65, Ph.D.(clin. psychol), 67. Instr. PSYCHOL, San Francisco, 62-65; ASST. PROF, Fresno State Col, 65-66; FORDHAM, 66- Instr, Providence Col. Nursing, 64-65; dir. psychol. serv, Exec. Adv. Corp, 67- AAAS; Psychol. Asn. Personality assessment; test validation; creativity; mental retardation. Publ: Co-auth, The D48 test as a measure of general ability among grade school children, J. Consult. Psychol, 63; auth, Validation of Howard's test of change-seeking behavior, Ed. & Psychol. Measurement, 65; Relation of early and late menarche to personality characteristics in mentally deficient women, Am. J. Ment. Deficiency, 66. Address: Dept. of Psychology, Fordham University, Bronx, N.Y. 10458.

DOMINOWSKI, DR. ROGER L(YNN), b. Chicago, Ill, Feb. 21, 39; m. 61; c. 4. PSYCHOLOGY. B.A, DePaul, 60, M.A, 63; Ph.D.(prob. solving), Northwestern, 65. Asst. to dean, DePaul, 61-62, instr. PSYCHOL, 63-65, ASST. PROF, 65-66; ILLINOIS, CHICAGO, 66- Psychol. Asn; Psychonomic Soc. Human problem solving and conceptual behavior; verbal learning. Publ: Role of memory in concept learning, Psychol. Bull, 65; Anagram solving as a function of letter moves, J. Verbal Learning & Verbal Behavior, 66; Anagram solving as a function of bigram rank and word frequency, J. Exp. Psychol, 67. Address: Dept. of Psychology, University of Illinois at Chicago Circle, Box 4348, Chicago, Ill. 60680.

DOMMERMUTH, DR. WILLIAM P, b. Chicago, Ill, June 29, 25; m. 59; c. 3. MARKETING, CONSUMER BEHAVIOR. B.A, Iowa, 48; Syracuse, 58-59; Ford Found. fel. & Ph.D.(mkt), Northwestern, 64. Copywriter, Sears, Roebuck & Co, 49-51, mail order sales mgr, 51-58; instr. MKT, Syracuse, 58-59; asst. prof, Texas, 61-66, assoc. prof, 66-67, Iowa, 67-68; PROF, SOUTHERN ILLINOIS, 68- Consult. Mkt. Asn. Improvement of marketing analysis techniques and experimental studies dealing with behavioral science concepts as they apply in economic situations. Publ: The shopping matrix and marketing strategy, 65 & co-auth, Consumption coincidence in product evaluation, 67, J. Mkt. Res; On the odds of becoming a company president, Harvard Bus. Rev, 66. Address: Dept. of Marketing, Southern Illinois University, Carbondale, Ill. 62901.

DONAHO, JOHN ALBERT, b. Chicago, Ill, Sept. 9, 17; m. 39, 61; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Cent. Y.M.C.A. Col, 41; M.A, Chicago, 43. Asst. to comptroller pub. utilities, Commonwealth Edison Co, 35-43; prin, bur. budget, Exec. Off. President, 43-47; v.pres, Roosevelt, 47-48; budget dir, City of Richmond, Va, 48-52; consult, State of Md, 52-54; PRES, JOHN A. DONAHO & ASSOCS, INC, 53- Consult, county charter bds, 55-56 & 62-63; UN, 59-60. Chmn, Va. Cmn. Uniform Govt. Acct, 50-52; designer, budget systs, Md, N.C. & Wash, 52-59. Fel. Soc. Adv. Mgt; Soc. Pub. Admin. American government; budget systems; organization and management. Publ: Performance budgeting, 5/50 & Planning, programming, budgeting systems, 8/67, Munic. Finance. Address: R. 320, 10 Light St, Baltimore, Md. 21202.

DONAHOE, PROF. JOHN WILLIAM, b. Nutley, N.J, May 21, 32; m. 53; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Kentucky, 54, M.A, 56, Ph.D.(exp. psychol), 58. Instr. PSYCHOL, KENTUCKY, 57-58, asst. prof, 58-65, ASSOC. PROF, 65-, RES. CONSULT, COMPUT. CENTER, 60- Res. consult, Lexington Vet. Admin. Hosp, 59- Psychol. Asn; Statist. Asn; Asn. Comput. Mach. Operant conditioning; human-problem solving; physiological psychology; statistics. Publ: The effect of variations in the form of feedback on the efficiency of problem-solving, J. Exp. Psychol; The training of immature chimpanzees for possible use in bio-satellite flights; Interference effects in the acquisition and retention of verbal material, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, University of Kentucky, Lexington, Ky. 40506.

DONAHUE, DR. WILMA THOMPSON, b. Mitchellville, Iowa, Dec. 4, 00; m. 22. PSYCHOLOGY. A.B, Michigan, 26, M.A, 27, univ. fel. & Ph.D.(psychol), 37; hon. D.Sc, Inst. Divi Thomae, 67. Ment. hygienist, MICHIGAN, 35-45, instr. psychol, univ. & chief psychologist, bur. psychol. serv, 38-45, dir. bur. psychol. serv, 45-48, dir. electronic reader res. proj, 48-51, LECTR. PSYCHOL, 45-, RES. PSYCHOLOGIST. & CHMN. DIV. GERONT, INST. HUMAN ADJUST, 48-, CO-DIR, INST. GERONT, UNIV. MICHIGAN-WAYNE STATE UNIV, 65- Mem. nat. adv. couns. aging, U.S. Dept. Health, Ed. & Welfare, 65- & U.S. Off. Econ. Opportunity, 68-; nat. adv. coun. housing elderly, U.S. Dept. Housing & Urban Develop, 68- Geront. Soc; Psychol. Asn. Publ: Ed, Earning opportunities for older workers, Education for later maturity & Housing the aging. Address: 1510 Rackham Bldg, University of Michigan, Ann Arbor, Mich. 48104.

DONALD, PROF. DAVID, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DONALD, DR. MARJORIE N(ANCY), b. Dunedin, N.J, Oct. 6, 18. SOCIAL PSYCHOLOGY. B.A, Auckland, 56; M.A, Victoria (N.Z), 49; Ph.D.(soc. psychol), Michigan, 59. Instr. psychol, Victoria (N.Z), 49-50, jr. lectr, 51-54, intermediate lectr, 55; asst. study dir. soc. psychol, inst. soc. behav, Michigan, 56-57, study dir, 58-59; vis. assoc. prof. psychol, Vanderbilt, 59-60; asst. prof. SOC. PSYCHOL, CARLETON (CAN), 60-61, ASSOC. PROF, 61- Am. Psychol. Asn; Can. Psychol. Asn. Organizational behavior and change; attitude structure and change; power and decision-making in small groups. Address: Dept. of Psychology, Carleton University, Ottawa, Ont, Can.

DONALDSON, PROF. ELVIN F, b. Athens, Ohio, Apr. 21, 03; m. 47. FINANCE. B.Sc, Ohio State, 25, M.A, 27, Ph.D.(bus. orgn), 33; Chicago, 27; Columbia, 30-31. Instr. BUS. ORGN, COL. ADMIN. SCI, OHIO STATE, 25-33, asst. prof, 33-41, assoc. prof, 41-46, PROF, 46- Econ. Asn; Finance Asn. Business organization; corporation finance investments; personal finance. Publ: Business organization and procedure; McGraw, 38; Corporate finance, 63 & Personal finance, 66, Ronald. Address: 2737 Coventry Rd, Columbus, Ohio 43221.

DONALDSON, DR. LORAINE, b. Clearwater, Fla, Jan. 9, 34. ECONOMICS. B.S.B.A, Florida, 60, M.A, 61; D.B.A, Indiana, 65. Asst. prof. ECON, GA. STATE COL, 64-66, ASSOC. PROF, 66- Econ. Asn; Soc. Int. Develop. Development planning in Ireland, Praeger, 66. Address: Dept. of Economics, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

DONALDSON, DR. THEODORE S, b. Niles, Mich, Mar. 27, 27. PSYCHOLOGY, PHYSICS. B.S, Western Michigan, 53; M.S, Arkansas, 56; Ph.D.(psychol), Purdue, 62. Sr. engr, N.Am. Aviation, Inc, Calif, 62-63; PSYCHOLOGIST, RAND CORP, 63- Lectr, Calif. State Col. Los Angeles, 63- Pvt. practice, 63- U.S.A, 45-46. AAAS; Psychol Asn; Statist. Asn. Design and use of data systems for management decisions; statistical data reduction and experimental design in large systems; human factor research in information-decision systems. Publ: Robustness of the F-test to errors of both kinds and the correlation between the numerator and denominator of the F-ratio, J. Am. Statist. Asn, (in press). Address: Rand Corp, 1700 Main St, Santa Monica, Calif. 90401.

DONAT, PROF. GERTRUDE MARY, b. Chicago, Ill, Jan. 15, 14; m. 46. PSYCHOLOGY. B.A, Concordia Col.(Moorhead, Minn), 53; M.A, Minnesota, 54, Ph.D, 58. Instr. PSYCHOL, N.Dak. State, 54-55; asst. prof, CONCORDIA COL.(MOORHEAD, MINN), 59-62, ASSOC. PROF. 62-, CHMN. DEPT, 65- Consult, Lutheran Hosp. & Homes Asn, 58-; N.Dak. Voc. Rehab, 58- Psychol. Asn. Learning; personality. Publ: Factors related to masculinity among students in secondary education; Variability of taste in art related to other personality variables; Studies related to the achievement motive. Address: 1109 Ninth St. S, Fargo, N.Dak. 58102.

DONATELLI, PROF. JOHN A(LEXANDER), Psychol, Philos, see 10th ed, Soc. & Behav. Vols.

DONATELLI, DR. ROCCO M, Am. Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DONDERI, DR. DON CROSBIE, b. New York, N.Y, Feb. 21, 37; m. 57; c. 2. PSYCHOLOGY. B.A, Chicago, 55, B.Sc, 58; Ph.D.(psychol), Cornell, 63. Lectr. PSYCHOL, McGILL, 62-63, ASST. PROF, 63- Consult, Man & Life Pavilion, Expo '67, Montreal, 64-67. Can. Psychol. Asn. Effects of experience on visual perception. Publ: Co-auth, Perceptual learning produced by common responses to different stimuli, 65 & auth, Information measurement of single multidimensional stimuli, 67, Can. J. Psychol; Visual disappearances caused by form similarity, Science, 66. Address: Dept. of Psychology, McGill University, Montreal 2, Que, Can.

DONDERO, BRO. AUSTIN, F.S.C, b. Philadelphia, Pa, Jan. 25, 22. PSYCHOLOGY. B.S, La Salle Col, 45; M.Litt, Pittsburgh, 50; M.A, Catholic Univ, 55, Ph.D.(psychol), 59. Teacher, Cent. Cath. High Sch, Pa, 45-52; math, St. John's Col, D.C, 54-55; asst. PSYCHOL, Catholic Univ, 55-56, 57-59; asst. prof, LA SALLE COL, 59-66, ASSOC. PROF, 66- Experimental psychology, especially research in perception; counseling psychology, especially personality theory and research. Publ: Subliminal perception and set; No borrowed light: mental health for religious, Bruce, 65; Critical flicker frequency and cortical alpha, EEG & Clin. Neurophysiol. Address: Dept. of Psychology, La Salle College, Philadelphia, Pa. 19141.

DONETH, PROF. JOHN CLAIR, b. Copemish, Mich, Dec. 28, 10. FARM MANAGEMENT. B.S, Mich. State Col, 33; M.S, Cornell, 39. Instr. voc. agr, high sch, Mich, 34-36; exten. specialist FARM MGT, MICH. STATE, 36-42, assoc. prof, 45-57, PROF, 56-, FARM MGT. EXTEN. PROG. LEADER, DEPT. AGR. ECON, 45- U.S.A.A.F, 42-45. Work units; farm planning workbook. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

DONHEISER, DR. ALAN D(AVID), b. Merrick, N.Y, Oct. 1, 36; m. 63. ECONOMICS, PUBLIC ADMINISTRATION. B.S, Villanova, 58; M.A, N.Y. Univ, 63, D.P.A, 67. Res. asst. pub. finance, Tax Found, Inc, 61-62, res. analyst, 62-64; res. assoc. pub. finance, N.Y. Univ, 64-66; STAFF ASSOC. REGIONAL ECON, ARTHUR D. LITTLE, INC, 66- Econ. Asn; Nat. Tax Asn; Soc. Pub. Admin. State and local finance; urban and regional economics; planning and program budgeting systems; public management. Publ: New York City tax incidence, N.Y. Univ, 66; co-auth, San Francisco Tax Study, Arthur D. Little, Inc, 67. Address: 846 Massachusetts Ave, Arlington, Mass 02174.

DONHEISER, DR. WALTER J(OSEPH), b. New York, N.Y, Nov. 23, 27; m. 53; c. 2. CLINICAL PSYCHOLOGY. A.B, Adelphi Col, 52, M.A, 53, Ph.D, 59; Post Grad. Center for Ment. Health, 64-67. Intern, Springfield State Hosp, Md, 55-56; sch. psychologist, Bd. Coop. Serv, Patchogue, N.Y, 56-59; dir. psychol. training, S.E. LA. HOSP, 59-61, CHIEF PSYCHOLOGIST, 61- Spec. lectr, La. State, 61. Consult, St. Tammany Guid. Center, Covington, La, 60; Windham Children's Serv, 64-; Edwin Found, 66- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 44-47. AAAS; Psychol. Asn. Communication, learning, personality theory and psychotherapy. Address: 77 Park Ave, New York, N.Y. 10016.

DONINI, DR. ANTONIO (OSCAR), b. Cordoba, Argentina, Mar. 8, 21; m. 67. SOCIOLOGY. B.Litt, Inst. Classic Humanities, Cordoba, 41; M.Ph, St. Michael Col, Buenos Aires, 45; M.S.Sc, Gregorian Univ, 57, Ph.D.(sociol), 60. Prof. SOCIOL, Catholic Univ. Buenos Aires, 60-65; chmn, Argentinian Univ. J.F. Kennedy, 65; vis. prof, Center Intercultural Formation, 65-66; ASST. PROF. STANISLAUS STATE COL, 66-, COORDINATOR DEPT, 67- Mem. Int. Inst. Sociol, 63- Am. Sociol. Asn; Argentinian Latin-Am. Sociol. Asn.(secy. gen, 64-67). Sociology of religion; Latin American problems; social change. Publ: Theory and technique of sociology, Peña Lillo, 68; Religious practice and attitudes, Sociologia religiosa (Padova), 61; Sociology and religion, Sudamericana, 62. Address: Dept. of Sociology, Stanislaus State College, 800 Monte Vista, Turlock, Calif. 95380.

DONLEY, PROF. HARVEY E(DWARD), b. Latham, Mo, Oct. 8, 18; m. 42; c. 4. ACCOUNTING. B.S, Cent. Mo. State Col, 46; A.M, Missouri, 49, Ph.D. (acct), 53. Instr. ACCT, Missouri, 47-53; prof, Evansville Col, 53-59; assoc. prof, BOWLING GREEN STATE, 59-64, PROF, 64-, DIR. GRAD. STUDIES BUS, 67- Am. Acct. Asn; Nat. Asn. Acct; Inst. Cert. Pub. Acct.

Accounting theory; corporate net worth; cost and managerial accounting. Address: Dept. of Quantitative Analysis & Control, Bowling Green State University, Bowling Green, Ohio 43402.

DONNAN, DR. CHRISTOPHER B, b. Covina, Calif, June 29, 40. ANTHROPOLOGY, ARCHAEOLOGY. B.A, California, Berkeley, 62, Ph.D.(anthrop), 68; M.A, California, Los Angeles, 65. ASST. PROF. ANTHROP, CALIFORNIA, LOS ANGELES, 68- Anthrop. Asn; Archaeol. Inst. Am. Andean archaeology. Publ: A suggested culture sequence for the Providence Mountains, Annual Report, Univ. California, Los Angeles Archaeol. Surv, 63; An early house from Chilca, Peru, Am. Antiq, 10/64; Moche ceramic technology, J. Inst. Andean Studies, 65. Address: Dept. of Anthropology, University of California, Los Angeles, Calif. 90024.

DONNELL, PROF. GUY R(ENFRO), b. Cooke Co, Tex, July 12, 04. POLITICAL SCIENCE. A.B, Oklahoma, 32; A.M, Texas, 40, Ph.D, 51. Prin. & supt. schs, Tex, 30-45; prof. govt. & econ, Schriener Inst, 45-46; from asst. prof. to PROF. POLIT. SCI, OKLA. STATE, 46- United States intervention in Mexico, 1914. Publ: United States military government at Vera Cruz, Mexico. Address: Dept. of Political Science, Oklahoma State University, Stillwater, Okla. 74075.

DONNELL, DR. JOHN C(ORWIN), b. Seattle, Wash, Aug. 18, 19; m. 53; c. 2. POLITICAL SCIENCE. B.A, Washington (Seattle), 41; M.A, Columbia, 59; Yale, 52-53; Cornell, summer, 53; Ph.D.(polit. sci), California, Berkeley, 64. War crimes field investr, invest. div, legal sect, Supreme Comdr. Allied Powers, Tokyo, 46-47; pres. & pub. officer, Saigon, Vietnam, U.S. State Dept. & U.S. Info. Agency, 50, pub. affairs officer, Hanoi, 50-52, press & pub. officer, Taipei, Taiwan, 53-55, spec. projs. officer, Saigon, 55, field opers. & cultural affairs officer, 56-57, pub. affairs officer, Penang, 57-58; Ford Found. For. Area Training fel, 61-62; asst. prof. govt, Dartmouth Col, 62-64; staff mem. Asian polit, Rand Corp, Calif, 64-65; asst. prof. POLIT. SCI, TEMPLE, 65-66, ASSOC. PROF, 66- Res. analyst, civil intel. sect, gen. hq, Far East Command, Tokyo, 46-47. Consult, Spec. Opers. Res. Off, 59; soc. sci. dept, Rand Corp, 62-; Center Res. Soc. Systs, 67; Simulmatics Corp, Mass, 67-68. Intel.C, U.S.A, 43-46, S/Sgt. Polit. Sci. Asn; Soc. Pub. Admin; Asn. Asian Studies. Political developments in South and North Vietnam; comparisons of North Vietnamese and Chinese communist political organization and methods. Publ: Personalism in Vietnam, In: Problems of freedom, South Vietnam since independence, Macmillan, 61; North Vietnam: a qualified pro-Chinese position, In: The communist revolution in Asia, Prentice-Hall, 65; The war, the gap and the cadre, Asia, winter 66. Address: 7022 Boyer St, Philadelphia, Pa. 19119.

DONNELLY, DR. ALTON STEWART, Russian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DONNELLY, DR. HENRY JOSEPH, JR, b. Philadelphia, Pa, Mar. 29, 08; m. 34. FEDERAL TAX ADMINISTRATION, COMMERCIAL LAW. B.S, Pennsylvania, 28; J.D, George Washington, 50. Acct. & teacher, 28-35; instr, conferee & internal revenue agent, U.S. Internal Revenue Serv, 35-43, mem. excess profits tax coun, 46-51, asst. nat. dir. appellate div, 51-56, nat. dir, 56-62, nat. dir. audit div, 62-65; PROF. TAXATION & COMMERCIAL LAW, DELAWARE, 65- Consult, spec. enrollment exam, U.S. Treas. Dept, 66, 67, & 68; rev. training prog. for U.S. Internal Revenue agents, 67-68. Cmnr. award, U.S. Internal Revenue Serv, 63; Presidential citation, U.S. Treas. Dept, 64 & Exceptional serv. award, 65. Ord.C, U.S.A, 43-46, Maj. Training of federal internal revenue agents. Address: College of Business & Economics, University of Delaware, Newark, Del. 19711.

DONNELLY, PROF. MURRAY SAMUEL, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

DONNELLY, PRES. THOMAS C, b. Rockcastle, W.Va, Apr. 1, 05. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Marshall Col, 26, Litt.D, 53; A.M, N.Y. Univ, 28, Ph.D, 30. Prof, N.Mex. West. Col, 31-33; prof. polit. sci. & head dept, Marshall Col, 33-35; assoc. prof. govt, New Mexico, 35-40, prof. & head dept, 41-49, dir. summer session & div. govt. res, 46-47, dean col. arts & sci. & gen. col, 47-52; PRES, NEW MEXICO HIGHLANDS, 52- Dist. info. exec, Off. Price Admin, 42, regional info. exec, 43, dir. field oper, 44, dep. admin, 44, asst. to adminstr, 45. Consult, survs, Princeton, 50. Chmn. N.Mex. Econ. Develop. Cmn, 55- Polit. Sci. Asn. Publ: New Mexico government and the story of New Mexico; Government of West Virginia. Address: New Mexico Highlands University, Las Vegas, N.Mex. 87701.

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DONNELLY, DR. WARREN H, b. Mt. Vernon, N.Y, Oct. 4, 21; m. 48; c. 1. PUBLIC ADMINISTRATION. B.S, Queens Col.(N.Y), 42; M.P.A. & Ph.D. (pub. admin), N.Y. Univ, 62. Jr. engr, West. Elec. Corp, 46-48; admin. asst. & contracting officer, U.S. Atomic Energy Cmn, New York, 48-58, dir. tech. serv. div, 58-63, indust. specialist, D.C, 63-65; SPECIALIST SCI. & TECH, LEGIS. REFERENCE SERV, SCI. POLICY RES. DIV, LIBRARY CONG, 65- U.S.A.A.F, 42-45, T/Sgt. AAAS. Organization for government development of atomic energy; public policy for science and technology. Address: 3610 Dorado Court, Fairfax, Va. 22030.

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DONOGHUE, PROF. JAMES R(OBERT), b. Pittsburgh, Pa, July 3, 14; m. 44; c. 3. POLITICAL SCIENCE. A.B, Pittsburgh, 38, M.A, 40; Ph.D, California, Los Angeles, 49. Res. assoc, inst. state & local govt, Pennsylvania, 46-47; PROF. POLIT. SCI. & DIR. INST. GOVT. AFFAIRS, WISCONSIN, MADISON, 48- Ford Found. sr. planning officer, Univ. East Africa, 65-66. Consult, inst. admin, Ahmadu Bello Univ, Nigeria, 62. U.S.A, 42-45. Polit. Sci. Asn; Soc. Pub. Admin. Urban political and governmental problems, especially metropolitan areas; election administration and electoral behavior; administration in developing countries. Address: Institute of Governmental Affairs, University of Wisconsin, Madison, Wis. 53706.

DONOGHUE, DR. JOHN D(AVID), b. Waukegan, Ill, July 20, 27; m. 51; c. 2. ANTHROPOLOGY. A.B, Lake Forest Col, 52; fel, Chicago, 52-53, A.M, 53, Ph.D.(anthrop), 56. Vis. prof. soc. sci, Hirosaki, 53-54; instr. ANTHROP, Notre Dame, 54-55; Ford found. fel, Harvard, 56-57; asst. prof, Texas, 57-58, Tuhuku, 58-60; ASSOC. PROF, MICH. STATE, 60- Field work, Japan & Viet Nam; proj. dir, Peace Corps, summers, 65-67; dean ed. & Peace Corps trainer, San Diego State Col, 67-68. U.S.N, 45-48. Fel. Anthrop. Asn. Process of social and cultural change, especially modern and peasant societies. Publ: Mythuan: a delta village in South Viet Nam; Cam An: a fishing village in central Viet Nam; Eta community in northern Japan, Am. Anthropologist. Address: 1735 Linden, East Lansing, Mich. 48823.

DONOHEW, DR. ROBERT LEWIS, b. Bath County, Ky, May 9, 29; m. 50; c. 3. COMMUNICATIONS, JOURNALISM. A.B, Kentucky, 51, M.A, 61; Ph.D. (mass commun), Iowa, 65. Ed, Pikeville Daily News, Ky, 51; reporter, Owensboro Messenger & Inquirer, Ky, 54-57; dir. info. serv, KENTUCKY, 57-62, instr. journalism, 62-65, asst. prof. COMMUN. & JOURNALISM, 65-67, ASSOC. PROF, 67- Co-investr, Off. Econ. Opportunity grant, 66-68. U.S.A.F, 52-54, Res, 54-60. Nat. Soc. Study Commun; Asn. Ed. Journalism. Communication theory and methodology; communication and national development. Publ: Co-auth, Content analysis of communications, Macmillan, 67; auth, Decoder behavior on incongruent political material: a pilot study, J. Commun, 66; Communication and readiness for change in Appalachia, Journalism Quart, 67. Address: Dept. of Journalism, University of Kentucky, Lexington, Ky. 40506.

DONOHOE, P(ATRICK) A(LOYSIUS), S.J, b. San Francisco, Calif, June 1, 14. POLITICAL SCIENCE. A.B, Gonzaga, 37, M.A, 38; S.T.L, Alma Col, 45; Ph.D.(polit. sci), St. Louis, 52. Instr. hist, Loyola (Calif), 38-41; asst. prof. polit. sci, Santa Clara, 50-55, assoc. prof. & chmn. dept, 55-57; regional asst. dir. studies, Calif. Province, 57-58; PRES, SANTA CLARA, 58- Polit. Sci. Asn. Political theory; United States constitutional law. Address: University of Santa Clara, Santa Clara, Calif. 95053.

DONOHUE, DR. ARTHUR T(HOMAS), Sociol, see 10th ed, Soc. & Behav. Vols.

DONOHUE, JOHN J(OSEPH), b. New York, N.Y, June 24, 23; m. 49; c. 2. ECONOMICS. A.B, Columbia, 43, M.A, 47. Jr. economist labor res, div. res. & statist, State Dept. Labor, N.Y, 49-51, assoc. economist, div. employ, 53-59; labor economist wages, bur. labor statist, U.S. Dept. Labor, 51-53; economist, Repub. Aviation Corp, 59-64; MKT. RES. MGR, U.S. ELEC. MOTORS DIV, EMERSON ELEC. CO, 64- U.S.A, 43-46, Sgt. Statist. Asn. Sales forcasts by product; new product research; business research in selected industries and leading business indicators; teaching business economics. Address: U.S. Electrical Motors Division, Emerson Electric Co, Old Gate Lane, Milford, Conn. 06460.

DONOVAN, PROF. C(LEMENT) H(AROLD), b. Canton, N.Y, Oct. 21, 11; m; c. 1. ECONOMICS. B.S, St. Lawrence, 31; Ph.D, North Carolina, 40. Asst. prof. ECON, FLORIDA, 40-41, assoc. prof, 41-48, PROF, 48-, HEAD DEPT, 52- Consult, Fla. Citizens Tax Cmt, 46-47; Fla. Citizens Tax Coun, 56-57. U.S.N, 42-46, Res, 46-, Capt. Econ. Asn. Public finance and taxation; business cycles; economic theory. Publ: School debt in Florida; Debt management and federal reserve credit policy since, 1945, South. Ed. J. Address: Dept. of Economics, University of Florida, Gainesville, Fla. 32603.

DONOVAN, PROF. JOHN CHAUNCEY, b. New York, N.Y, Feb. 9, 20; m. 47; c. 4. POLITICAL SCIENCE. B.A, Bates Col, 42; M.A, Harvard, 48, Ph.D. (polit. sci), 49. Prof. polit. sci, Bates Col, 49-59; admin. asst. to Sen. Edmund S. Muskie, 59-62; personal asst. to W. Willard Wirtz, Secy. Labor, 62-64, manpower adminstr, 64-65; PROF. GOVT, BOWDOIN COL, 65- Consult, U.S. Dept. Labor, 65-; Manpower Eval. & Develop. Inst, 66-; Orgn. Econ. Coop. & Develop, 66-; Center Res. Soc. Systs, 67- U.S.N, 42-46, Lt. (jg). Polit. Sci. Asn. National policy-making process. Publ: Congressional campaign: Maine elects a Democrat, McGraw, 57; The politics of poverty, Pegasus, 67; Manpower training implications, Phi Delta Kappan, 65. Address: Dept. of Government, Bowdoin College, Brunswick, Maine 04011.

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DONOVICK, DR. PETER JOSEPH, Physiol. Psychol, see Suppl. IV to 11th ed, Phys. & Biol. Vols.

DOOB, PROF. LEONARD W(ILLIAM), b. New York, N.Y, Mar. 3, 09; m. 36; c. 3. SOCIAL PSYCHOLOGY. A.B, Dartmouth Col, 29; A.M, Duke, 30; Frankfurt, 30-32; Ph.D.(psychol), Harvard, 34. Instr. sociol, Dartmouth Col, 32-33; from asst. to PROF. PSYCHOL, YALE, 34-, dir, div. soc. sci, 63-66. Guggenheim fel, 60-61; vis. res. prof, Univ. Col, Dar es Salaam, 67-68. Chief, anal. sect, Off. Coordinator Inter-Am. Affairs, Wash, 40-42; chief consult. psychologist, mil. intel, U.S. War Dept, 42-43; policy coordi-

nator, overseas br, Off. War Info, 43-45. Ed, J.Soc. Psychol, 65- Investr, Nye Munitions Cmt, 34. Communication; acculturation; language; nationalism. Publ: Becoming more civilized: a psychological exploration, 60, Communication in Africa: a search for boundaries, 61 & Chap. 8, In: Patriotism and nationalism: their psychological foundations, 64, Yale. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06510.

DOODY, DR. ALTON F, b. New Orleans, La, Oct. 18, 34; m. 56; c. 4. BUSINESS ADMINISTRATION, MARKETING. A.B, Ohio Wesleyan, 56; M.B.A, Ohio State, 57, Ph.D.(bus. admin), 61. Asst. to dean BUS. ADMIN, Air Force Inst. Tech, 59-61; asst. prof, OHIO STATE, 61-64, ASSOC. PROF, 65- Consult, 61- Mkt. Asn. Changing structure of distribution in the American economy. Publ: Co-auth, Retailing management, Ronald, 3rd ed, 66 & Marketing in America: settlement to Civil War, Irwin, 68. Address: Dept. of Marketing, Ohio State University College of Commerce, 1775 S. College Rd, Columbus, Ohio 43210.

DOODY, PROF. FRANCIS S(TEPHEN), b. Littleton, N.H, Jan. 16, 17. ECONOMICS. A.B, Tufts Col, 38; A.M, Harvard, 40, Ph.D, 61. Asst. ECON, Mass. Inst. Tech, 40-42; asst. prof, BOSTON, 46-49, assoc. prof, 49-60, PROF, 60-, DIR. BUR. BUS. RES, 59- U.S.N.R, 42-46, Lt. Econ. Asn; Indust. Rels. Res. Asn; Arbit. Asn. Theory of labor organization; economic theory; the Schumpeterian system. Address: Dept. of Economics, Boston University, Boston, Mass. 02215.

DOOLEY, DR. ARCH RICHARD, b. Oklahoma City, Okla, Feb. 1, 25; m. 53; c. 2. BUSINESS ADMINISTRATION. A.B, Yale, 44; M.B.A, Harvard, 50, D.C.S.(prod), 60. Asst. prof. econ. & hist, Oklahoma City Univ, 46-47; lectr. & asst. dean bus, North Carolina, 50-52 & 53-54; instr. PROD, HARVARD, 52-53, asst. prof, 54-60, assoc. prof, 60-64, PROF, 65- U.S.N.R, 42-46, Lt. Soc. Adv. Mgt. Industrial relocation; automation through use of process control computers. Publ: Co-auth, Operations planning and control, Vol, III, 64, Production operating decisions in the total business strategy, Vol. V, 64 & Basic problems, concepts and techniques, Vol. 1, rev. ed, 68, In: Casebooks in production management, Wiley. Address: Graduate School of Business Administration, Harvard University, Soldiers Field, Boston, Mass. 02163.

DOOLEY, DR. LUCILE, Psychiat, see 11th ed, Phys. & Biol. Vols.

DOOLEY, DR. MARY L(UCETTA), b. Brodhead, Wis, July 3, 24. ECONOMICS, LAW. B.A, Wisconsin, 47, LL.B, 51, M.A, 53, Ph.D, 57, J.D, 66. Res. assoc, attorney gen, Wis, 52; res. attorney, Edwin Shields Hewitt Assocs, Ill, 53-54; asst, Univ. Wisconsin, 54-56; asst. prof, Muskingum Col, 55; Mich. State, 56-57; Wisconsin, Milwaukee, 58; Ford faculty fel, Minnesota, 58; instr, San Francisco, 59-61; res. attorney, State Judicial Coun, Calif, 59-60; legal ed. planner, Univ. California, 60-61; prof, St. Mary's Col. (Minn), 62-63; attorney-at-law, 51- U.S.M.C, 45-46. Bar Asn; Judicature Soc; Econ. Asn; Indust. Rels. Res. Asn; Acad. Polit. & Soc. Sci. Labor relations law; antitrust legislation; workmen's compensation; taxation; economic development, Ireland, African countries; wage theory; family law; judicial administration; civil defense; social security; social and economic policy; national income; business and corporation law. Publ: Union's duty to bargain collectively; Collective bargaining: institutional and statutory setting; Antitrust legislation, labor unions, Labor Law J, 60. Address: Suite 224-6, 20 E. Milwaukee St, Janesville, Wis. 53545.

DOOLEY, PROF. OSCAR S(EBOURNE), b. Tunica Co, Miss, July 8, 14; m. 47; c. 3. ECONOMIC HISTORY, INTERNATIONAL ECONOMICS. A.B, Mississippi, 34, fel, 34-35, A.M, 36; fel, La. State, 36-38; univ. fel, Indiana, 39-41, Ph.D.(hist, polit. sci), 42. Assoc. state ed. & field supvr, State Hist. Records Surv, Miss, 38-39; asst. prof. hist. & polit. sci, Millsaps Col, 42-44; trainee & foreman, Miss. Ord. Plant, Goodyear Eng. Corp, 45; hist. res. analyst, U.S. Army Air Force, 45-46; res. analyst, War Assets Admin, U.S. Govt, 46; assoc. ed. for. rels. br, U.S. Dept. State, 46-47; asst. prof. ECON, TEMPLE, 47-51, ASSOC. PROF, 51-, ACTING CHMN. DEPT, 66- Brit. Econ. Hist. Soc. Manufacturing in eastern Pennsylvania, 1789-1865; forces affecting comparative international economic development. Publ: Some background considerations in the present dollar shortage, Econ. & Bus. Bull; Highway transportation in northeastern Pennsylvania; Social costs of age as a factor in securing employment, 1950 and 1980. Address: Dept. of Economics, Temple University, Philadelphia, Pa. 19122.

DOOLEY, DR. PETER CHAMBERLAIN, b. Washington, D.C, Dec. 27, 37; m. 59; c. 2. ECONOMICS. B.A, Grinnell Col, 59; Ph.D.(econ), Cornell, 64. Asst. ECON, Cornell, 60-62; ASST. PROF, Pa. State, 64-66; SASKATCHEWAN, 66- Dir. food study, Prairie Prov. Cost Study Cmn, 67. Econ. Asn. Industrial organization of the Prairie grocery trade. Publ: Elementary price theory, Appleton, 67. Address: Dept. of Economics, University of Saskatchewan, Saskatoon, Sask, Can.

DOOLEY, DR. WILLIAM EMIN, b. Chicago, Ill, Mar. 20, 25; m. 48; c. 3. URBAN GEOGRAPHY. B.S, Northwestern, 49, M.S, 50; Ph.D, Michigan, 59. Asst. instr. GEOG, Northwestern, 50; instr, North Dakota, 50-51; Maryland, 51-54; asst. prof, Eastern Michigan, 54-58; Ball State Teachers Col, 58-66; ASSOC. PROF. & CHMN. DEPT, STATE UNIV. N.Y. COL. OSWEGO, 66- U.S.N.A.F.R, 43-46. Asn. Am. Geog; Geog. Soc; Nat. Coun. Geog. Ed. European geography; urban and regional planning. Address: Dept. of Geography, State University of New York College at Oswego, Oswego, N.Y. 13126.

DOPPELT, DR. JEROME E, b. New York, N.Y, Aug. 12, 17; m. 47; c. 3. PSYCHOLOGY. B.S, City Col. New York, 36, M.S, 37; Ph.D, Columbia, 49. Asst. tech. dir, Carnegie Found, N.Y, 39-44; Los Alamos Labs, 45-46; asst. dir. TEST DIV, PSYCHOL. CORP, 46-65, ASSOC. DIR, 65- Psychol. Asn; Statist. Asn; Psychomet. Soc. Tests and measurement in education and industry; psychometric theory. Address: Psychological Corp, 304 E. 45th St, New York, N.Y. 10017.

DORAN, PROF. EDWIN, JR, b. Baton Rouge, La, Jan. 11, 18; m. 38; c. 2. GEOGRAPHY. B.A. La. State, 38, M.S, 47; Ph.D, California, 53. From instr. to asst. prof. GEOG, Texas, 50-55; vis. asst. prof, La. State, 55-56; assoc. prof, South Carolina, 56-58; consult, Pac. Missile Range, Pt. Mugu, Calif, 58-60; assoc. prof, TEXAS A&M, 60-67, PROF, 67-, ASST. DEAN COL. GEOSCI, 65- C.Eng, 42-46, 1st Lt. Asn, Am. Geog; Geog. Soc. Culture history; primitive watercraft; anthropogeography. Publ: Shell roads in Texas, Geog. Rev, 65; co-auth, The precedence of Tarawa Atoll, Ann. Asn. Am. Geogr, 66; auth, The origin of leeboards, Mariners Mirror, 67. Address: Dept. of Geography, Texas A&M University, College Station, Tex. 77843.

DORAN, PROF. JOSEPH T(HOMAS), b. North Vernon, Ind, Apr. 18, 24; m. 59; c. 2. SOCIOLOGY. B.A, Notre Dame, 48, M.S, 61, Ph.D.(sociol), 62. Case worker, Cook County Juvenile Court, Ill, 49-50; case work supvr, Cleveland Boys Sch, Ohio, 50-52; from instr. to asst. prof. SOCIOL, Our Lady of Cincinnati Col, 52-58; fel, Notre Dame, 58-59; asst. prof, Dayton, 59-61; Portland, 61-64; PROF, CANISIUS COL, 64- U.S.N.R, 42-44. Coun. Crime & Delinquency; Sociol. Asn. Social adjustment of fifth and sixth grade elementary school children; medical sociology. Publ: Sex information is not sex education; Man's home: prison or castle. Address: Dept. of Sociology, Canisius College, Buffalo, N.Y. 14208.

DORAN, DR. MICHAEL D(ESMOND), b. Manchester, Eng, Jan. 20, 23; U.S. citizen; m. 56. EXPERIMENTAL PSYCHOLOGY. A.B, Fla. State, 55, M.A, 56, Ph.D.(psychol), 65. Instr. PSYCHOL, Tampa, 58-61, asst. prof, 63-65; EAST TENN. STATE, 65-67, ASSOC. PROF, 67- U.S.A.F, 48-52, S/Sgt. Psychol. Asn. Dark adaptation processes; parameters affecting visual perception in the area of sensory deprivation. Publ: Co-auth, Very early intermediate dark adaptation, Am. J. Psychol, 55 & Early dark adaptation to dim luminances, J. Optical Soc. Am, 59. Address: Dept. of Psychology, East Tennessee State University, Johnson City, Tenn. 37601.

DORAU, PROF. H(ERBERT) B(ENJAMIN), b. Calumet, Wis, May 9, 97. ECONOMICS. A.B, Lawrence Col, 19; A.M, Wisconsin, 20, Ph.D, 29. Asst. instr. econ, Wisconsin, 20-22, res. instr, 22-25; asst. prof, sch. commerce, Northwestern, 25-28, assoc. prof, 28-31; lectr, WASH. SQ. COL, N.Y. UNIV, 31-33, assoc. prof, 33-35, prof, 35-65, chmn. dept. pub. utilities & transportation, 36-65, EMER. PROF. ECON, 65- Am. Acct. Asn; Soc. Traffic & Transportation. Municipal ownership in the electric light and power industry; public utility rate of return, depreciation, regulation and financing; urban land economics. Address: Dept. of Public Utilities & Transportation, School of Commerce, Washington Square College, New York University, Washington Square, New York, N.Y. 10003.

DORCUS, PROF. ROY MELVIN, b. Woodsboro, Md, Feb. 9, 01; m. 25. PSYCHOLOGY. A.B, Hopkins, 22, A.M, 24, Ph.D.(psychol), 25. Instr. psychol, Hopkins, 25-27, assoc, 27-37; asst. prof, CALIFORNIA, LOS ANGELES, 37-39, assoc. prof, 40-43, prof, 44-65, sch. med, 48-65, dean div. life sci, 50-65, EMER. PROF. PSYCHOL, SCH. MED, 65- Lectr, postgrad. sch, U.S. Naval Acad, 31-32. Managing ed, J. Comp. Psychol, 36-46; Comp. Psychol. Monogrs, 36-46. Consult, Vet. Admin. Hosps, San Fernando, Sepulveda, Long Beach & Wadsworth, Calif. Past pres, Conf. State Psychol. Asns. Psychol. Asn; Geriat. Soc; Soc. Clin. & Exp. Hypnosis (past pres, Bernard B. Raginsky & Morton Prince award, 62); Psychopath. Asn; Acad. Psychother; Int. Soc. Comprehensive Med. Abnormal psychology; employee selection; hypnosis. Publ: Science in betting; Clinical psychology; Psycho-physiological aspects of space flight. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

DORDICK, DR. ISADORE L, Geog, see 11th ed, Phys. & Biol. Vols.

DOREMUS, PROF. WILLIAM L(OHR), b. Brooklyn, N.Y, July 22, 07; m. 53; c. 1. MARKETING. B.S, N.Y. Univ, 36, M.B.A, 38. Economist, U.S. Bur. Labor Statist, 41-42; Off. Price Admin, 42-43; asst. prof. MKT, N.Y. UNIV, 46-50, assoc. prof, 50-60, PROF, 60- N.Y. Univ. res. grant bus. policy study; conducted summer seminar on Am. mkt. methods, French Nat. Mkt. Execs. Asn, Paris, 57, 60 & 61. Mgt. consult, 62- U.S.A, 43-46, Maj. Mkt. Asn. Outlines of marketing; principles of advertising; business policy. Publ: Marketing, McGraw, 50; Advertising, 62 & Sales management, 66, Alexander Hamilton Inst. Address: 153 Lincoln St, Garden City, N.Y. 11530.

DORFMAN, DR. BEN D(AVID), b. Portland, Ore, Feb. 16, 02; m. 34; c. 2. ECONOMICS. A.B, Reed Col, 24; A.M, California, 27, Mills fel, 31-33, Ph.D.(econ), 32. Asst. prof, North Dakota, 30-31; free lance writer, 33-34; sr. economist, U.S. Tariff Cmn, 34-37, prin. economist, 37-42, adv, Far East trade probs, 42-43, chief economist, 43-61, chmn. cmt. reciprocity info, 61-65; PRIVATE CONSULT, 65- From econ. adv. to mem. joint prep. cmt. on Philippine affairs, U.S. Dept. State, 37-38; liaison officer, For. Econ. Admin, 41-45. Econ. adv, League Nations Cmn. Enquiry, Far East, 32; consult, fats & oils sect, War Prod. Bd, 42-43; adv, U.S. del, Gen. Agreement Tariffs & Trade Confs, France, 49, Eng, 50-51, Japan, 59, Switz, 62 & 63. Econ. Asn. International trade; tariffs; colonialism. Publ: Economy of Puerto Rico; Currencies; Watches. Address: 4719 30th St. N.W, Washington, D.C. 20008.

DORFMAN, DR. DONALD D, b. Philadelphia, Pa, June 11, 33; m. 58; c. 2. PSYCHOLOGY. B.A, Pennsylvania, 54; M.A, Michigan, 57, Ph.D.(psychol), 61. Study dir. PSYCHOL, inst. soc. res, Univ. Michigan, 61-62; asst. prof, SAN DIEGO STATE COL, 62-65, ASSOC. PROF, 65- Grants, Nat. Insts. Health, 65-67 & Nat. Sci. Found, 67-; participant, Soc. Sci. Res. Coun, summer, 62. AAAS; Psychonomic Soc; Psychol. Asn. Mathematical psychology; pattern preference; scaling; social perception; signal detection theory. Publ: Co-auth, Perception, drive & behavior theory, Psychol. Rev, 64 & The classification of individuals into two groups on the basis of a discontinuous payoff function, Psychometrika, 67; The recognition of taboo words as a function of a priori probability, J. Personality & Soc. Psychol, 67. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

DORFMAN, DR. E(LAINE), Psychol, see 10th ed, Soc. & Behav. Vols.

DORFMAN, PROF. JOSEPH, b. Ramonovska, Russia, Mar. 27, 04; nat. ECONOMICS. A.B, Reed Col, 24; A.M, Columbia, 25, Ph.D, 35; fel, New Sch. Soc. Res, 29-31. Economist, Nat. Indust. Conf. Bd, 27-29; mem. faculty,

COLUMBIA, 31-48, PROF. ECON, 48- Guggenheim fel, 54-55; Ford Found. faculty res. fel, 59-60. Hist. Asn; Asn. Evolutionary Econ.(v.pres); Econ. Asn; Econ. Hist. Asn.(v.pres); Royal Econ. Asn. History of economic thought; institutional economics. Publ: Thorstein Veblen and his America; The economic mind in American civilization; co-auth, Early American policy. Address: Dept. of Economics, Columbia University, New York, N.Y. 10027.

DORFMAN, PROF. ROBERT, b. New York, N.Y, Oct. 27, 16; m. 49; c. 2. ECONOMICS. B.A, Columbia, 36, M.A, 37; Booth fel, California, 47, Ph.D. (econ), 50. Asst. biometrician, Worcester State Hosp, Mass, 37; asst. statistician, Bur. Labor Statist, Wash, D.C, 38-41; sr. statistician, Off. Price Admin, 41-43; opers. analyst, U.S. Army Air Force, Wash, D.C. & overseas, 43-46, 49-50; assoc. prof. ECON, California, 50-55; PROF, HARVARD, 55- Fel, Center Adv. Study Behav. Sci, 60-61. Consult, Rand Corp, 50-; Exec. Off. President, D.C, 61-62; Agency Int. Develop, 62-64; Int. Bank Reconstruct. & Develop, 64- Fel. AAAS; Statist. Asn; Econ. Asn; fel. Economet. Soc; Opers. Res. Soc; Inst. Math. Statist; Inst. Mgt. Scis; Royal Econ. Soc. Economic statistics; economic theory; operations research. Publ: Co-auth, Linear programming and economic analysis & Design of water resources systems; The price system, Prentice-Hall, 64. Address: Dept. of Economics, Harvard University, 325 Littauer Center, Cambridge, Mass. 02138.

DORFMAN, DR. WILLIAM, b. Philadelphia, Pa, May 20, 17; m. 50; c. 3. SOCIOLOGY, STATISTICS. B.A, Pennsylvania, 43, M.S, 47, Ph.D, 56. Instr. sociol, Pennsylvania, 50-51; Rutgers, 51-56; asst. prof. sociol, statist. & math, Sacramento State Col, 56-59; sr. opers. analyst, C-E-I-R, Inc, 59-61, chief mgt. sci, 61-62; opers. res. analyst, Hughes Aircraft Co, 62-64; chief opers. res. group, U.S. Coast & Geod. Surv, 64-65; opers. res. analyst, Environ. Sci. Serv. Admin, 65-67; CHIEF ECON. ANAL. BR, U.S. OFF. ED, ROCKVILLE, 67- Prof. lectr, George Washington, 62; American Univ, 66- U.S.A, 43-46. AAAS; Statist. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Population; social statistics operations research; computer applications. Publ: Some factors in intergenerational mobility; Norristown study. Address: 9120 Kirkdale Rd, Bethesda, Md. 20034.

DORIS, DR. JOHN LAWRENCE, b. New York, N.Y, Apr. 12, 23; m. 55; c. 4. PSYCHOLOGY. B.Sc, City Col. New York, 51; M.A, Yale, 53, Ph.D, 57. Res. asst. child develop, child study center, Yale, 57-58, chief psychologist, 58-63; ASSOC. PROF. CHILD DEVELOP. & FAMILY RELATIONSHIPS, CORNELL, 63- AAAS; Psychol. Asn. Child development; clinical psychology. Publ: Evaluation of the intellect of the brain damaged child, In: Modern perspectives in child development, Int. Univs, 63; co-auth, Treatment of children with brain damage and associated school problems, J. Child Psychiat, 10/63 & Brightness discrimination in infancy, J. Exp. Child Psychol, 3/66. Address: Dept. of Child Development & Family Relationships, Cornell University, Ithaca, N.Y. 14850.

DORJAHN, PROF. VERNON R(OBERT), b. Blue Island, Ill, Aug. 19, 28; m. 53; c. 1. ANTHROPOLOGY. B.S, Northwestern, 50, Ph.D.(anthrop), 54; M.A, Wisconsin, 51. Nat. Sci. Found. fel, Sierra Leone, 54-55; lectr, Northwestern, 55-56; asst. prof. ANTHROP, OREGON, 56-61, assoc. prof, 61-67, PROF, 67-, HEAD DEPT, 66- Nat. Sci. Found. res. grant, 62-63. Anthrop. Asn; Royal Anthrop. Inst. Gt. Brit; Int. African Inst. Demography of nonliterate peoples; African ethnography. Publ: The changing political system of the Temne, Africa, 60; Transcultural perceptions and misperceptions in Sierra Leone, In: Cultural frontiers of the Peace Corps, 66; Demographic aspects of African polygyny. Address: Dept. of Anthropology, University of Oregon, Eugene, Ore. 97403.

DORKEN, DR. HERBERT, b. Montreal, Que, July 7, 25; m. 51; c. 2. PSYCHOLOGY. B.Sc, McGill, 45, M.Sc, 47; Ph.D.(clin. psychol), Montreal, 51. Intern psychol, Ste Annes Mil. Hosp, Montreal, Que, 46-47; staff psychologist, Douglas Hosp, Montreal, 48-51, psychologist in charge, 51-56; consult. psychol, Dept. Nat. Health & Welfare, Ottawa, Ont, 57-59; community ment. health serv, State Dept. Pub. Welfare, Minn, 59-60, dir, 60-62; dep. dir. liaison & prev, DEPT. MENT.HYG, CALIF, 62-64, CHIEF bur. psychol, 64-67, BUR. RES, 67- Lectr, McGill, 51-56; clin. supvr, dept. psychol, Montreal, 54-56; student counsr, Sir George Williams Col, 54-56; lectr, Carleton, 58-59; California, Davis, 63-67. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. AAAS; fel. Psychol. Asn; fel. Pub. Health Asn. Program development and administration in mental health services; professional training; recruitment classification and utilization; clinical research. Publ: Normal senescent decline and senile dementia, Med. Serv. J. Can; Behind the scenes in community mental health, Am. J. Psychiat; Maximizing the effectiveness of psychology in public mental health services, Am. Psychologist. Address: Bureau of Research, Dept. of Mental Hygiene, 1500 Fifth St, Sacramento, Calif. 95814.

DORKIN, MURRAY, b. New York, N.Y, Apr. 9, 12; m. 38; c. 3. ECONOMICS, STATISTICS. B.S, N.Y. Univ, 35. Statistician, Area Statist. Off, 37; Nat. Res. Proj, 38-39; State Dept. Soc. Welfare, N.Y, 40-41; sr. statistician, N.Y. STATE DEPT. LABOR, 42-62, PRIN. STATISTICIAN, 62- Instr, Russell Sage Col; training div, N.Y. State Civil Serv; lectr, exten. div, sch. indust. rel, Cornell. Consult, Ministry Labor, El Salvador, 61. Statist. Asn. Employment and unemployment statistics; labor turnover; population. Address: 99 Van Schoick Ave, Albany, N.Y. 12209.

DORLING, DR. M(ICHAEL) J(OHN), b. Winchester, Hants, U.K, Oct. 2, 30; m. 66; c. 1. AGRICULTURAL ECONOMICS. B.Sc, Reading, 52; Dipl. Agr. Econ, Oxford, 57; M.S, Iowa State, 59; Ph.D.(econ), McGill, 65. Asst. agr. economist, Wye Col, London, 54-56; lectr. AGR. ECON, Ont. Agr. Col, 59-61; ASST. PROF, BRITISH COLUMBIA, 64- R.N, 52-54. Am. Agr. Econ. Asn; Can. Agr. Econ. Soc; Brit. Agr. Econ. Soc. Farm management; agricultural production economics, especially horticulture. Publ: Planning glass house crop production, J. Agr. Econ, 12/60; Raspberry growing in Abbotsford area of British Columbia, Dept. Agr. Econ. Univ. Brit. Columbia, 7/67. Address: Dept. of Agricultural Economics, Faculty of Agriculture, University of British Columbia, Vancouver 8, B.C, Can.

DORN, DR. DEAN S, b. Belvidere, Ill, June 3, 37. SOCIOLOGY. B.A, Northern Illinois, 59; M.A, Iowa, 63, Ph.D.(sociol), 65. ASST. PROF. SOCIOL, SACRAMENTO STATE COL, 65- Sociol. Asn. Race and ethnic relations; delinquency. Publ: Co-auth, Race and social class as determinants of social distance, Sociol. & Soc. Res, 67. Address: Dept. of Sociology, Sacramento State College, 6000 J St, Sacramento, Calif. 95819.

DORNBUSCH, PROF. SANFORD M(AURICE), b. New York, N.Y, June 5, 26; m. 50; c. 2. SOCIOLOGY. A.B, Syracuse, 48; hon. univ. fel, Chicago, 49-50, M.A, 50, Ph.D.(sociol), 52. Asst, Chicago Community Inventory, 49-50, res. assoc, 51-52; asst. prof. SOCIOL, Washington (Seattle), 52-54, assoc. prof, 58-59; asst. prof, Harvard, 55-58; PROF, STANFORD, 59-, exec. head dept, 59-62, assoc. dean humanities & sci. & dir. lab. soc. res, 61-62. Instr, Illinois, 50-51; Indiana, 50-52; fel, Center Adv. Study Behav. Sci, 54-55; faculty res. fel, Soc. Sci. Res. Coun, 58-59, mem. cmt. math. in soc. sci, 57-60; vis. prof, Ibadan, 66-67. Mem. behav. sci. res. panel, Nat. Insts. Health, 60-62. U.S.A, 43-44; U.S.C.G, 44-45; U.S.N, 45-46. Sociol. Asn; Statist. Asn; Soc. Study Social Probs; fel. African Studies Asn. Social organization and psychology; religion; urbanism. Publ: Co-auth, Primer of social statistics, Popular religion & Evaluation and authority, McGraw, 69. Address: Dept. of Sociology, Stanford University, Stanford, Calif. 94305.

DORNBUSH, DR. RHEA L, b. New York, N.Y, May 15, 42. EXPERIMENTAL PSYCHOLOGY. B.A, Queens Col, 62, M.A, 63, col. fel, 63-64, Nat. Insts Ment. Health fel, 64-65; Ph.D.(exp. psychol), City Col. New York, 67. Lectr, PSYCHOL, Douglass Col, Rutgers, 65-67, ASST. PROF, 67-68; N.Y. MED. COL, 68- Res. grants, Rutgers Univ. Res. Coun, 65-66 & 67-68, Nat. Inst. Ment. Health, 66-69, Am. Philos. Soc, 67-68 & Sigma Xi, 68. AAAS; Psychol. Asn. Auditory and visual short-term memory under conditions of simultaneous and separate stimulation; perceptual development; learning. Publ: Co-auth, Incidental and intentional short-term learning, J. Exp. Psychol, 67; auth, Preference for visual complexity, Child Develop, 68; Shadowing in bisensory memory, Quart. J. Exp. Psychol, 68. Address: Dept. of Psychiatry, New York Medical College, New York, N.Y. 10029.

DORNER, PROF. PETER PAUL, b. Luxemburg, Wis, Jan. 13, 25; m. 50; c. 5. AGRICULTURAL ECONOMICS. B.S, Wisconsin, 51; M.S, Tennessee, 53; fel, Harvard, 56-57, Ph.D, 59. Asst. agr. econ, Tennessee, 51-53, asst. prof, 53-54; Wisconsin, 54-56; instr. econ, Harvard, 57-58; res. economist, Fund Republic, 58-59; assoc. prof. AGR. ECON, WISCONSIN, MADISON, 59-62, PROF, 62-, DIR. LAND TENURE CENTER, 65- Vis. prof, Chile, 63-65; mem. panel world food supply, President's Off. Sci. & Tech, 66; sr. staff econ, President's Coun. Econ. Adv, 67. Econ. consult, 59- U.S.A, 44-46, Sgt. Econ. Asn; Farm Econ. Asn. Economic development; natural resource use and policies; economic organizational problems of agriculture; farm policies; land tenure; research methodology in the social sciences. Publ: Needed: a new policy for the American Indians, J. Land Econ; Farm problem: a challenge to social invention, J. Farm. Econ; Land tenure reform and agricultural development in Latin America, H.R. Cmt. Print, 8/66. Address: Dept. of Agricultural Economics, University of Wisconsin, Madison, Wis. 53706.

DOROW, PROF. NORBERT ARTHUR, b. Garner, Iowa, Mar. 11, 21; m. 60; c. 1. AGRICULTURAL ECONOMICS. B.S, Iowa State, 48; M.S, Minnesota, 57; Ph.D.(agr. econ), Minnesota, 62. County exten. dir, agr. exten. serv, Iowa State, 49-56; asst. AGR. ECON, Minnesota, 56-58; instr, 58-59; asst. prof, N.DAK. STATE, 60-63, PROF. COOP. EXTEN. SERV, & ECONOMIST, PUB. AFFAIRS, 63- Agr. Econ. Asn. Economics of handling forage crops; farm records and economics of beef cattle enterprises; labor inputs for beef cattle feeding. Publ: Public services and taxes in North Dakota; Farm bargaining power; Wheat policy analysis. Address: Cooperative Extension Service, North Dakota State University, Fargo, N.Dak. 58102.

DORPALEN, PROF. ANDREAS, Mod. German Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DORR, PROF. HAROLD M(cVICAR), b. Chadwick, Mich, Jan. 16, 97; m. 32; c. 1. POLITICAL SCIENCE. A.B, Michigan, 23, A.M, 29, Ph.D, 33. Prin, high sch, Mich, 23-27, supt. schs, 27-28; asst. POLIT. SCI, MICHIGAN, 28-29, instr, 29-35, asst. prof, 35-39, assoc. prof, 39-44, PROF, 44-, DIR. SUMMER SESSION, 50-, DEAN STATE-WIDE ED, 56-, acting chmn. dept. polit. sci, 48-49. Vis. expert, Off. Mil. Govt, Germany, 49; govt. specialist, State Dept, Germany, 50. U.S.A, 18. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Pub. Admin. Administrative organization of state government in Michigan; administrative reorganization. Publ: Ed, Michigan constitutional convention of 1835-1836; co-auth, Goals for political science; co-auth, Legislation, In: Governing postwar Germany. Address: 493 Orchard Hills Dr, Ann Arbor, Mich. 48104.

DORRIES, DR. WILLIAM L, b. Denison, Tex, Apr. 4, 23; m. 47; c. 2. ECONOMICS, FINANCE. B.S, East Texas State, 42; M.S, Texas A&M, 52, Ph.D. (econ), 55. Instr. gen. agr, Fannin County Voc. Sch, Bonham, Tex, 46-50; asst. prof. AGR. ECON, Auburn, 54-55; instr, EAST TEXAS STATE, 55-56, asst. prof, 56-57, assoc. prof, 57-67, PROF, 67- U.S.A.A.F, 43-46. Econ. Asn. Finance and labor economics. Address: 101 Kings Lane, Commerce, Tex. 75428.

DORROUGH, DR. DOUGLAS C(HARLES), Math Logic, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

DORSCH, DR. ARTHUR ROBERT, b. Newark, N.J, Jan. 24, 20; m. 56; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.Sc, Rutgers, 42; M.B.A, Am. Int. Col, 58; fel, Florida, 59-60, Ph.D.(econ), 65. Asst, bur. econ. & bus. res, Florida, 60-61; asst. prof. bus. admin, AM. INT. COL, 61-65, ASSOC. PROF. FINANCE & CHMN. DEPT, 65- U.S.A.A.F, 42-46, Res, 46-, Maj. Econ. Asn; Finance Asn; Acad. Polit. & Soc. Sci. Money and banking; consumer credit; statistics; finance; management. Address: 198 Falmouth Rd, West Springfield, Mass. 01089.

DORSEN, PROF. NORMAN, b. New York, N.Y, Sept. 4, 30. LAW. A.B, Columbia, 52; LL.B, Harvard, 53; Fulbright fel, London Sch. Econ, 55-56.

Asst. to gen. counsel, Secy. of Army, 53-55; law clerk for chief judge, U.S. Court Appeals, 56-57; for. justice, U.S. Supreme Court, 57-58; asst. prof. law, N.Y. UNIV, 61, assoc. prof. LAW, 61-65, PROF, 65-, DIR. CIVIL LIBERTIES CENTER, 61-, DIR. PROJ. SOC. WELFARE LAW, 66- Vice chmn. bd. dirs, Am. Civil Liberties Union, 66-; reporter & draftsman, model Anti-Discrimination Act, Nat. Conf. Cmnrs. Uniform State Laws, 67. Mem, Am. Law Inst, 66- Ed-in-chief, Welfare Law Bull, 66- U.S.A, 53-55, Res, 55-61, 1st Lt. Bar Asn. Problems in civil liberties and civil rights, especially freedom of expression, rights of the accused in criminal proceedings, rights of minority groups to equal treatment in voting, housing, education and employment. Publ: Co-auth, Political and civil rights in the United States, 2 Vols, Little, 67; auth, Frontiers of civil liberties, Pantheon, 68; co-auth, The future of juvenile law, Family Law Quart, 67. Address: Civil Liberties Center, New York University Law School, New York, N.Y. 10003.

DORSETT, PROF. HOWARD R(ISSELL), b. Lamont, Okla, Sept. 18, 16; m. 47; c. 4. ECONOMICS. B.S, Okla. State, 47; Ph.D.(agr. econ), Iowa State Col, 56. Asst. prof. econ, Parsons Col, 47-49; agr. econ, Kans. State Col, 50-51; act. prof. econ, PARSONS COL, 51-56, PROF, 56-58, ECON. & BUS. ADMIN, 58- Frank J. Camp Chair Finance, 58. U.S.A.A.F, 42-45. Econ. Asn; Farm Econ. Asn. Land economics. Address: Dept. of Economics, Parsons College, Fairfield, Iowa 52556.

DORSEY, PROF. JOHN T(HORNTON), JR, b. Atlanta, Ga, Dec. 25, 24; m. 47; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Alabama, 49, M.A, 50, South. Regional Training Prog. fel. & Ph.D, 55; Fulbright scholar, Paris, 50-51. Res. contractor, Tenn. Valley Authority, 52-53; instr. polit. sci, Mich. State, 53-55, asst. prof, 55-58, assoc. prof, 58-61, specialist, Viet Nam Adv. Group, 55-56, chief pub. admin. div, 57-59; assoc. prof. POLIT. SCI, VANDERBILT, 61-67, PROF, 67- Vis. prof, Found. Sch. Sociol. & Polit, São Paulo, 64. A.U.S, 43-45, S/Sgt. Polit. Sci. Asn; Soc. Pub. Admin. Comparative analysis of public administration; role of bureaucracies in political development; organization theory. Publ: Communication model for administration, Admin. Sci. Quart, 12/57; Information-energy model; In: Papers in comparative public administration, Inst. Pub. Admin, Univ. Michigan, 62; The bureaucracy and political development in Viet Nam, In: Bureaucracy and political development, Princeton, 63. Address: Dept. of Political Science, Vanderbilt University, Nashville, Tenn. 37203.

DORSEY, DR. JOHN WESLEY, b. Hagerstown, Md, June 13, 36; m. 65; c. 1. ECONOMICS. B.S, Maryland, 58; cert, London Sch. Econ, 59; M.A, Harvard, 62, Ph.D.(econ), 64. Asst. prof. econ, Maryland, 63-65; economist, Coun. Econ. Adv, 65-66; ASSOC. PROF. ECON, MARYLAND, 66-, DIR. BUR. BUS. & ECON. RES, 66- Consult, U.S. Dept. Commerce, 63-64; U.S. Dept. Defense, 64-65; Coun. Econ. Adv, 66-67; Bur. Budget, 66- Econ. Asn; Regional Sci. Asn. Public expenditure analysis; program budgeting. Publ: Co-auth, Studies in the economics of income maintenance, Brookings, 67. Address: Bureau of Business & Economic Research, University of Maryland, College Park, Md. 20742.

DORSEY, DR. ROBERT N(ICHOLSON), b. Hattiesburg, Miss, Feb. 13, 20; m. 45; PSYCHOLOGY. A.B, Miami, 50, M.A, 52; Ph.D.(psychol), La. State, 57. Chief psychologist, Ascension Parish Ment. Health Center, Donaldsonville, La, 56-57; asst. prof. PSYCHOL, SCH. MED, LA. STATE, 57-65, ASSOC. PROF, 65- Consult, La. Eval. Center, 57-58; Vet. Admin, New Orleans, 59-; perinatal res. br, Nat. Inst. Neurol. Diseases & Blindness, 59-61; La. Alcoholic Rehab. Center, 60-62; voc. rehab. & eval. center, Delgado Inst, State La, New Orleans, 62- Head psychol. sect, collab. child develop. prog, Charity Hosp. New Orleans, 58-65. U.S.N, 36-45. Psychol. Asn; Asn. Ment. Deficiency. Mental deficiency; brain damage in adults and children; developmental educational problems; diagnosis; testing; therapy; parental counseling. Address: Dept. of Psychiatry, Louisiana State University School of Medicine, 1542 Tulane Ave, New Orleans, La. 70112.

DORT, DR. WAKEFIELD, JR, Geol, Geomorphol, see 11th ed, Phys. & Biol. Vols.

DORTON, DR. JOSEPH WHITE, b. Keystone, W.Va, July 19, 22; m. 55; c. 1. PSYCHOLOGY. B.A, Tennessee, 48; M.A, Western Reserve, 51, Ph.D, 59. Asst. indust. psychol, Personnel Res. Inst, Western Reserve, 49-51, res. assoc, 51-54; asst. soc. studies, Case, 54-55, lectr. eng. admin, 55; instr. psychol, Lake Erie Col, 55-56; asst. prof, Arizona State, 56-58; res. assoc. & dir. res, Nat. Aptitude Surv, Michigan, 58-62; asst. br. chief bioastronaut, aeronaut. systs. div, WRIGHT-PATTERSON AIR FORCE BASE, 62-63, res. psychologist, aerospace med. res. lab, 63-65, SUPVR. ENG. PSYCHOL, DESIGN HANDBOOKS BR, DIV. ENG. STANDARDS, 65- U.S.A, 43-46. Human Factors Soc. Aptitude test construction; programmed learning; research design; human engineering; management. Publ: Development of the oral proficiency examination for B-50 mechanics; Changing requirements for automobile repair. Address: 6100 Ansbury Dr, Dayton, Ohio 45424.

DORWART, PROF. REINHOLD A(UGUST), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DORWORTH, DR. ALICE G, b. Oil City, Pa. ECONOMICS, STATISTICS. B.S, Edinboro State Col, 39; M.Ed, Pittsburgh, 43; fel, N.Y. Univ, 51-52, Ph.D, 55. City supvr. retailing, Erie Sch. Syst, Pa, 40-46; assoc. prof. mkt, Marshall Col, 46-51; spec. lectr, sch. commerce, N.Y. Univ, 51-56; ASSOC. PROF. BUS. STATIST, HOFSTRA, 56- AAAS; Statist. Asn; Opers. Res. Soc; Inst. Sci. Mgt. Operations research and the application of its techniques to national planning for emerging countries; common language for top management and operations research technologists. Publ: Application of operations research techniques to the problems of producing a literate labor force in emerging countries; Shifts in the channels of distribution of selected commodities, 1929-1954; National register of scientific personnel in the fields of mathematics and statistics. Address: Dept. of Business Statistics, Hofstra University, Hempstead, N.Y. 11550.

DOSCHER, DR. LUELYNE B(ETTE), b. New York, N.Y, Aug. 1, 21; m. 41; c. 1. PSYCHOLOGY. Ph.D, California, Los Angeles, 50. Res. assoc. psychol, California, Los Angeles, 47-49; co-dir, Blueprints for Fact-Finding, 50-65; SCH. PSYCHOLOGIST, Bogota, N.J, 65-67; HARRINGTON PARK, NORTHVALE, 67- Proj. dir, Facts Consol, 51; res. asst. psychol, Rice Inst, 54-55, lectr, 55; Alberta, 62-63. Sci. writer & consult, 55-65; soc. psychologist consult, community ment. health center, Hackensack, Hosp, 67- Psychol. Asn. Social psychology of intergroup relations; mass communication; attitudes. Publ: Significance of audience measurement in motion pictures, J. Soc. Issues; Birth of a stereotype, Hollywood Quart. Address: 4 Horizon Rd, Ft. Lee, N.J. 07024.

DOSHER, DR. GUY H(UDSON), JR, Psychol, see 10th ed, Soc. & Behav. Vols.

DOSICK, DR. MARTIN (LAURENCE), b. Boston, Mass, Nov. 29, 30; m. 63; c. 1. SOCIOLOGY, CRIMINOLOGY. B.A, Boston, 52, M.A, 55; Ph.D.(sociol), California, Los Angeles, 65. Lectr. SOCIOL, Indiana, 60-62; asst. prof, Southern Illinois, 62-65; ASSOC. PROF, SPRINGFIELD COL, 65- Sr. staff mem. delinquency study proj. for President's Cmt. Juvenile Delinquency & Youth Crime & recipient delinquency prevent. res. grants, Southern Illinois Univ, 62-65. U.S.A.F, 52-54, 1st Lt. Assoc. Sociol. Asn. Youthful offenders, especially the etiology of youthful automobile theft offenders and the control and prevention of this type of crime. Publ: Co-auth, Poverty, education and race relations, Allyn & Bacon, 67. Address: Dept. of Sociology, Springfield College, Springfield, Mass. 01109.

DOSSETT, WILLIAM FRANKLIN, Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

DOTO, IRENE L(OUISE), Statist, see 11th ed, Phys. & Biol. Vols.

DOTSON, PROF. LOUIS EVERETT, b. Hardinsburg, Ky, Mar. 30, 23; m. 48; c. 3. SOCIOLOGY. A.B, Tennessee, 49, M.A, 51; Ph.D, Vanderbilt, 59. Asst. agr. econ. & rural sociol, Tennessee, 51, instr. SOCIOL, 51-52; community consult, Save Children Fedn, Inc, 52-55; asst, Vanderbilt, 55-57; asst. prof, TENNESSEE, 57-61, ASSOC. PROF, 61- U.S.A, 43-46. Sociol. Asn. Social psychology; attitude formation and measurement; attitude component; methodology. Publ: Empirical study of Guttman's theory of the third component, Dissertation Abstracts; Empirical study of attitude component theory, Pub. Opinion Quart; co-auth, Self-attitude consequences of forced compliance, The Sociol. Quart, 66. Address: Dept. of Sociology, University of Tennessee, Knoxville, Tenn. 37916.

DOTSON, PROF. ROBERT S(COTT), SR, b. Newton, Kans, May 6, 24; m. 44; c. 3. AGRICULTURAL EDUCATION. B.S, Okla. Agr. & Mech. Col, 53, Danforth fel, 53-56, M.S, 54; Danforth fel, Pa. State, 56-58, Ph.D.(agr. ed), 58. Res. worker agr. ed. & rural sociol, Okla. Agr. & Mech. Col, 53-54; teacher pub. schs, Okla, 54-56; asst. agr. ed, Pa. State, 56-58; asst. prof. agr. exten methods & asst. exten. methods specialist, TENNESSEE, 59-61, assoc. prof. agr. exten. ed. & assoc. training & studies specialist, 61-67, PROF. AGR. EXTEN. & HEAD DEPT. & TRAINING & STUDIES SPECIALIST & LEADER, 67- Summer entomologist, McDonald-Wills & Co, Tex, 53. Mem. nat. cmt. probs. eval. res. on farm & home develop, Purdue, 61; nat. res. planning cmt, Nat. Agr. Exten. Center Adv. Studies, 61; summarizing cmt, Nat. County Exten. Orgn. & Financing Procedures Study, 62-63; Nat. Agr. Exten. Curriculum Study Cmt, 64- U.S.N.A.F, 43-45, Res, 45-63, Lt. Rural Sociol. Soc. Agricultural extension training, studies and education including characteristics and needs of clientele, program development processes, personnel, areas of program emphasis and phases of cooperative extension work. Publ: A synthesis of research in extension program determination, Proc. Nat. Exten. Training Conf, 4/63; co-auth, County extension organization and financing procedures, Fed. Exten. Serv, U.S. Dept. Agr, 5/63; Significant woodland practices in 5 selected Tennessee counties, Agr. Exten. Serv, Univ. Tennessee 9/65. Address: Dept. of Agricultural Extension, 204 Morgan Hall, University of Tennessee College of Agriculture, Knoxville, Tenn. 37901.

DOTY, DR. BARBARA ALLEN, b. Pittsfield, Mass, Dec. 23, 33; m. 60; c. 2. PSYCHOLOGY. B.A, Western Reserve, 56, Nat. Inst. Ment. Health fel, 59-61, Ph.D.(psychol), 63; Kent State, 57-58. Instr. PSYCHOL, N.CENT. COL. (ILL), 61-63, asst. prof, 64-66, ASSOC. PROF, 67- Dir, Nat. Sci. Found. undergrad. res. participation grants, 63-; prin. investr, U.S. Off. Ed. res. contract, 67- Consult, Chicago Med. Sch, 67- AAAS; Geront. Soc; Ed. Res. Asn. Comparative psychology; gerontology; animal psychopharmacology; physiological psychology. Publ: Facilitative effects of amphetamine on avoidance conditioning in relation to age and problem difficulty, Psychopharmacologia, 66; Effects of handling at various ages on later open-field behavior, Can. J. Psychol, 67; Learning set formation by mink, ferrets, skunks, and cats, Science, 67. Address: Dept. of Psychology, North Central College, Naperville, Ill. 60540.

DOTY, DR. ROY A(NDERSON), b. Tenn, Jan. 7, 14; m. 37; c. 2. PSYCHOLOGY. A.B, Duke, 37, A.M, 39, Ph.D.(ed. psychol), 41. Instr. psychol, Ohio State, 40-42, asst. prof, 42-43; psychologist, Stevenson, Jordan & Harrison, Inc, 43-44; dir. psychol. servs, George Fry & Assocs, Inc, 46-49, v.pres, 49-57; DIR. ROY DOTY & ASSOCS, 57- Vis. prof, Michigan, 41; Chicago, 48. U.S.N, 44-46, Lt. Psychol. Asn. Executive selection; management development. Address: 120 S. LaSalle St, Chicago, Ill. 60603.

DOUBLEDAY, PROF. D(OUGLAS) JAY, b. Deer Trail, Colo, Mar. 3, 26; m. 49; c. 2. POLITICAL SCIENCE. A.B, California, 50, Soc. Sci. Res. Coun. fel, 53-54, Haines fel, 57-58, Ph.D, 58. Lectr. polit. sci, California, Berkeley, 58-60, asst. prof, 60-62; PUB. ADMIN, GRAD. SCH. PUB. & INT. AFFAIRS, PITTSBURGH, 62-65, ASSOC. PROF, 65- Prof, sch. admin, Cent. Univ. Ecuador, 63-66. Soc. Pub. Admin. American government; public administration in Latin America. Publ: Legislative review of the budget in California, Inst. Govt. Studies, Univ. California, Berkeley, 67. Address: Graduate School of Public & International Affairs, University of Pittsburgh, Pittsburgh, Pa. 15213.

DOUGALL, PROF. HERBERT E(DWARD), b. Merritton, Ont, Oct. 20, 02; nat; m. 29; c. 2. ECONOMICS, FINANCE. B.A. Toronto, 25; fel, Northwestern, 25-27, M.B.A, 26, Ph.D, 30. Asst. prof. finance, Northwestern, 29-35, assoc. prof, 35-42, prof, 42-46, dir. undergrad. div, sch. commerce, 39-44, summer sessions, 44-46; prof. FINANCE, GRAD. SCH. BUS, STANFORD, 46-53,

C.O.G. MILLER PROF, 53- Soc. Sci. Res. Coun. fel, France & Eng, 31-32; Ford Found. faculty res. fel, 60-61; lectr, Australian Inst. Mgt, summer, 67. Consult. finance. Trustee, Col. Retirement Equities Fund, 55-59; dir, Commonwealth Funds, San Francisco. Mem. nat. adv. bd, Loeb awards bus. journalism, 59- Econ. Asn; Finance Asn.(v.pres, 49). Business finance; investments. Publ: Co-auth, Corporate financial policy; Investments; auth, Capital markets and institutions, Prentice-Hall, 66. Address: 15 Holden Court, Portola Valley, Calif. 94025.

DOUGAN, PROF. RILEY S, b. Phoenix, Ariz, Mar. 19, 24; m. 52; c. 2. AGRICULTURAL ECONOMICS & EDUCATION. B.S, Ohio State, 48, M.S, 51, Ph.D.(agr. econ), 56. Teacher, high sch, Ohio, 48-50; instr, agr. econ, OHIO STATE, 53-56, asst. prof, 57-59, assoc. prof, 59-60, state leader agr, coop. exten, 61-64, PROF. AGR. ECON. & RURAL SOCIOL. & ASST. DIR. COOP. EXTEN, 64- Mem, Latin Am. trade Mission Agr. Exten. Specialists, 60. U.S.A, 43-46, Sgt. Agr. Econ. Asn; Adult Ed. Asn. Farm policy education; teaching principles of decision making relating to farm policy decisions; local community development with adult groups. Publ: Co-auth, legislative attempts to solve the farm problem, 59 & Ohio agriculture, 60, Exten. Bull; co-auth, The farm problem—what are the choices, Farm Found, 61. Address: Cooperative Extension Service, Ohio State University, Columbus, Ohio 43210.

DOUGHERTY, COMDR. JOHN JOSEPH, U.S.N, (RET), Commun. Eng, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

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DOUGHTIE, DR. EUGENE BRITT, JR, b. Columbus, Ga, Jan. 12, 31; m. 58; c. 2. PSYCHOLOGY, EDUCATIONAL PSYCHOLOGY. B.A, Texas, 58, Ph.D. (ed. psychol), 63. Lectr. ed. psychol, Texas, 62-63, asst. prof, 63-64; Southern California, 64-67, ASSOC. PROF. PSYCHOL, HOUSTON, 67- Dir, Nat. Defense Ed. Act Summer Counseling & Guid. Inst, 65. Consult, Los Angeles City Schs, 65-67. U.S.A.F, 47-50, Sgt; U.S.A, 51. Psychol. Asn; Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv; Voc. Guid. Asn. Counselor effectiveness; personality and cognitive functioning; reading and information processing. Publ: Co-auth, Value and trait comparisons of clinical and counseling students, Psychol. Reports & The appraisal function, Rev. Ed. Res, 4/66. Address: 3 Raydon Lane, Houston, Tex. 77024.

DOUGHTY, DR. PAUL L, b. Beacon, N.Y, Feb. 27, 30; m. 52; c. 1. ANTHROPOLOGY. B.A, Ursinus Col, 52; Pennsylvania, 55-57; Ph.D.(anthrop), Cornell, 63. Coordinator, Cornell-Peru Proj, Cornell, 62-64; ASST. PROF. ANTHROP, INDIANA, 64-, res. grant, Int. Affairs Center, 66-67. Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; Ethnol. Soc. Cultural and social anthropology; culture change and applied anthropology; peasant societies; urbanization and migration; Latin America. Publ: Co-auth, Pararin, a break with the past, Cornell-Peru Proj, 65 & Measurement of Peace Corps impact in the Peruvian Andes, Cornell-Peru Proj. U.S. Peace Corps, 66; auth, Huaylas: an Andean district in search of progress, Cornell, 68. Address: Dept. of Anthropology, Indiana University, Bloomington, Ind. 47405.

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DOUGLAS, HUGH, Natural Resources Econs, see 11th ed, Phys. & Biol. Vols.

DOUGLAS, DR. JACK DANIEL, b. Miami, Fla, Jan. 14, 37; m. 60; c. 3. SOCIOLOGY. B.A, Harvard, 58; fel, Hopkins, 60-61; fel. & Ph.D.(sociol), Princeton, 65. Instr. SOCIOL, Dartmouth, 61; Wellesley Col, 61-62; asst. prof, California, Los Angeles, 62-66; Am. Coun. Learned Socs. vis. fel, Princeton, 66-67; ASSOC. PROF, Syracuse, 67-68; CALIFORNIA, SAN DIEGO, 68- Nat. Inst. Ment. Health res. grant, 67-68. Sociol. Asn; Soc. Study Social Probs. Sociology of deviant behavior; sucide; sociological theory. Publ: The social meanings of suicide, Princeton Univ, 67; Revenge suicide, Prentice-Hall, 68; ed, Series on fundamental problems of sociology, Basic Books,current. Address: Dept. of Sociology, University of California, San Diego, La Jolla, Calif. 92038.

DOUGLAS, PROF. LOUIS H(ARTWELL), b. Bloomington, Nebr, Sept. 5, 07; m. 33; c. 3. POLITICAL SCIENCE. A.B, Hastings Col, 31; M.A, Nebraska, 37, Ph.D, 50; Cowles scholar, Yale, 47, Cowles fel, 48. Instr, McCook Jr. Col, 42-43; from asst. prof. to act. dean, Hastings Col, 43-46; asst. prof. GOVT, Miami (Ohio), 46-49; PROF, KANSAS STATE, 49- Vis. prof, Tottori Univ, Japan, 51-52; vis. Fulbright prof, Philippines, 60-61, ADC-CDRC Res, 64-65; vis. prof, Illinois, Urbana, summer, 63. Mem, Governor's Cmn. Constitutional Revision, 57-62; exec. coun, Midwest Conf. Polit. Scientists, 60-63. Polit. Sci. Asn. Political parties and pressure groups; public policy; comparative economic and political development. Publ: Co-auth, Dualism and change: the agrarian transition in America, Bobbs, 68; auth, Recent elections in a Japanese prefecture; The agrarian polity in an era of development, Univ. Kansas Govt. Res. Center, 64. Address: 415 Oakdale Dr, Manhattan, Kans. 66504.

DOUGLAS, DR. PAUL H(OWARD), b. Salem, Mass, Mar. 26, 92; m. 31; c. 5. ECONOMICS. A.B, Bowdoin Col, 13; M.A, Columbia, 15, Ph.D, 21; Harvard, 15-16; hon. degrees from 19 instns. Instr. econ, Illinois, 16-17; asst. prof, Reed Col, 17-18; asst. indust. rels, Emergency Fleet Corp, 18-19; assoc. prof. econ, Washington (Seattle), 19-20; from asst. prof. to prof. indust. rels. & econ, Chicago, 20-49; U.S. Senator, Ill, 49-67; PROF. ECON, GRAD. FACULTY, NEW SCH. SOC. RES, 67- Vis. prof, Amherst Col, 24-25, 26-27; Oberlin Col, 30-31; in charge unemploy. study, Swarthmore Col, 30. U.S.M.C, 42-46, Lt. Col. Econ. Asn.(pres, 46-47); Statist. Asn; fel. Economet. Soc. Economic theory; labor problems; taxation; monetary and banking theory and motivations; tariff and trade problems; social security. Publ: The theory of wages; Real wages in the United States, 1890-1926; Social security in the United States. Address: Dept. of Economics, New School for Social Research, New York, N.Y. 10011.

DOUGLAS, DR. STEPHEN A(RNEAL), b. Hastings, Nebr, Sept. 2, 38; m. 61; c. 2. POLITICAL SCIENCE. B.A, Kansas State, 60; M.A, Illinois, 61, fels, 62-64, Ph.D.(polit. sci), 67. Training assoc, field off, Ford Found, Jakarta, Indonesia, 63-65; instr. POLIT. SCI, ILLINOIS, URBANA, 65-66, ASST. PROF, 66- Polit. Sci. Asn. Comparative politics; Southeast Asia; political socialization. Address: Dept. of Political Science, University of Illinois, Urbana, Ill. 61803.

DOUGLAS, DR. VIRGINIA I(SABEL), b. London, Ont, Jan. 28, 27; m. 48; c. 1. PSYCHOLOGY. B.A, Queen's (Ont), 48; M.A, Michigan, 53, M.S.W, 54, Ph.D. 58. Instr. PSYCHOL, Michigan, 57-58; asst. prof, McGILL, 58-65, ASSOC. PROF, 65- Med. Res. Coun. res. grant, 63- Am. Psychol. Asn; Can. Psychol. Asn. Intellectual and psychophysiological correlates of hyperactivity in children; children's responses to stress situations. Publ: Children's responses to frustration—a developmental study, Can. J. Psychol, 65; co-auth, Children's responses to aggression, Can. Psychologist, 65 & Studies on the hyperactive child III, J. Am. Acad. Child Psychiat, 66. Address: Dept. of Psychology, McGill University, Montreal, Que, Can.

DOUGLAS, PROF. WILLIAM GRAY THOMSON, b. Cleveland, Ohio, Jan. 21, 25; m. 52; c. 2. PSYCHOLOGY. B.A, Stanford, 48; B.D, Yale, 51; Ph.D. (psychol. of relig), Harvard, 57. Minister, Pioneer Mem. Church, Ohio, 51-55; assoc. prof. PSYCHOL. OF RELIG, SCH. THEOL, BOSTON, 57-66, PROF, 66- Weyerhaeuser lectr, McCormick Theol. Sch, 61; vis. prof, Doshisha, Japan, 63-64; res. assoc, Kyoto, 63-64; Am. Asn. Theol. Schs. fel, 63-64; lectr, Army Chaplains' Sch, 64. Consult, Joint Cmn. Ment. Illness & Health, 57-59. U.S.A.A.F, 43-46, Sgt. Psychol. Asn; Acad. Relig. & Ment. Health; Soc. Sci. Study Relig. Personality development and assessment; communication of values; marriage and family; religion and mental health cross-culturally; patterns of career development as related to psychological life style. Publ: Ministers' wives, Harper, 65; Psychology in theological education, In: Ministry and mental health; Religion, In: Taboo topics, Atherton, 63. Address: Boston University School of Theology, 745 Commonwealth Ave, Boston, Mass. 02215.

DOUGLASS, DR. GORDON KLENE, b. Long Beach, Calif, July 1, 27; m. 64; c. 2. ECONOMICS. B.A, Pomona Col, 50; Ph.D.(econ), Mass. Inst. Tech, 63. Chief economist, Sylvania Elec. Prod, Inc, 53-58; instr. econ, Calif. Inst. Tech, 58-59; asst. prof, POMONA COL, 59-65, ASSOC. PROF. ECON. & CHMN. DEPT, 65- Ford Found. faculty fel, 64-65; Haynes Found. fel, 65; Fulbright lectr, India, 66-67. C.Eng, U.S.A, 45-46, S/Sgt. Econ. Asn; Economet. Soc. Innovation and the theory of international trade; theory of international factor movements; locational decisions within a region. Publ: Developing the inland empire, 62, co-auth, International trade of Southern California, 64 & auth, The challenge of leisure, 67, Southern California Res. Coun. Address: Dept. of Economics, Pomona College, Claremont, Calif. 91711.

DOUGLASS, DR. HOWARD J(UNIOR), b. Syracuse, N.Y, Jan. 13, 24; m. 46; c. 3. PSYCHOLOGY. B.A, Syracuse, 48, M.A, 51; Ph.D, Purdue, 58. Asst. prof. PSYCHOL, RENSSELAER POLYTECH, 58-64, ASSOC. PROF, 64- Psychol. Asn. Psychological measurement and evaluation. Publ: Co-auth, Conversion tables for airman classification battery scores and comparable scores on other selected service and civilian tests; Experimental undergraduate education in engineering materials, J. Eng. Ed, 63. Address: Dept. of Psychology, Rensselaer Polytechnic Institute, Troy, N.Y. 12181.

DOUGLASS, DR. JOSEPH H(ENRY), b. Washington, D.C, June 26, 17; m. 38; c. 2. SOCIOLOGY. A.B, Fisk, 37, M.A, 41; Ph.D.(sociol), Harvard, 46.

Exec. secy, Wash. Urban League, 46-47; dean, State Teachers Col. (Fayetteville, N.C), 47-54; spec. rep. of secy. & asst. to asst. secy. prog. anal, Dept. Health, Ed. & Welfare, 54-60, CHIEF PROG. ANAL. & INTERAGENCY LIAISON, NAT. INST. MENT. HEALTH, 60- Fulbright lectr, sch. soc. work, Cairo, Egypt, 52-53. Mem. bd. dirs, Am. Soc. Health Asn, 56-; mem, Nat. Budget & Consult. Cmt, 63-; Nat. Cmt. Children & Youth, 67-; bd. dirs, Nat. Hearing & Speech Agencies, 67- Mem, Royal Acad. Promotion Health, London, 65- Sociol. Asn; Rural Sociol. Soc; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Royal Geog. Soc. Health; education; welfare. Publ: Race relations to human relations, Fisk, 66; Urban Negro family, Prentice-Hall, 66; Mental health aspects of the effects of discrimination upon children, Young Children, 5/67. Address: 3314 16th St. N.E, Washington, D.C. 20018.

DOUGLASS, DR. LEIGH C(ARROLL), Psychol, see 10th ed, Soc. & Behav. Vols.

DOUGLASS, PROF. PAUL F(RANKLIN), b. Corinth, N.Y, Nov. 7, 04. POLITICAL SCIENCE, LAW. A.B, Wesleyan, 26, LL.D, 46; Chicago, 29; A.M, Cincinnati, 29, Taft fel. & Ph.D, 31. Instr. polit. sci, Green Mt. Jr. Col, 33-41; pres, American Univ, 41-52; adv, Rep. Korea, 52-56; PROF. POLIT. SCI. & DIR. CENTER PRACTICAL POLIT, ROLLINS COL, 56- Mem. State House Rep. & State Senate, Vt; legis. cmt, Joint House Rep. & Senate, 66-67; Fla. Legis. & draftsman, Code of Ethics, 67. Chmn, UN War Relief, 42-45; nat. adv. cmt. recruitment, training & placement recreation personnel, 51-56; finance cmt, Am. Recreation Found, 56-66. King Haakon VII Liberation Cross, Norway, 48; Order of Auspicious Star with Rosette, China, 48; Order of Taiguk, Korea, 50. Bar Asn; Polit. Sci. Asn; Soc. Int. Law; Nat. Recreation & Park Asn. Political parties and practical politics. Publ: The workshop way, Asn. Press, 57; How to be an active citizen, Univ. Florida, 61; The theory and practice of politics, World, 68. Address: 1 Carnegie Hall, Rollins College, Winter Park, Fla. 32789.

DOUGLASS, W(ILLIAM) BRUCE, b. Chicago, Ill, July 25, 25; m. 50; c. 1. PSYCHOLOGY. A.B, Indiana, 50; A.M, Missouri, 52; California, Los Angeles, 52-55. Teaching asst. PSYCHOL, Missouri, 50-52; California, Los Angeles, 52-53, jr. res. psychologist, 55-58; personnel technician, Los Angeles County Civil Serv. Cmn, 58-60; from sr. personnel res. analyst to admin. asst, Int. Bus. Mach. Corp, 62-65; psychologist, soc. security admin, Dept. Health, Ed. & Welfare, 65-68; DIR. EXAMS, STATE CIVIL SERV. CMN, HARRISBURG, 68- U.S.N, 43-46. Psychol. Asn. Job satisfaction surveys; ability test construction, standardization, validation and development; prediction of success in engineering and programming. Publ: Co-auth, Adequacy of the reporting-test measures for detecting reactions to frustration, J. Abnorm. & Soc. Psychol, An experimental determination of the optimal scoring formula for a highly-speeded test under different instructions regarding scoring penalties, Ed. & Psychol. Measurement, 63 & A comparative evaluation of student performance under automated and non-automated instruction, Int. Bus. Mach. Personnel Res. Bull, 64. Address: 1125 Columbus Ave, Lemoyne, Pa. 17043.

DOUST, PROF. JOHN WM. LOVETT, Psychiat, Psychophysiol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DOUTY, DR. H(ARRY) M(ORTIMER), b. Baltimore, Md, Feb. 14, 09; m. 30; c. 2. ECONOMICS. A.B, Duke, 32; M.A, Columbia, 32; Ph.D.(econ), North Carolina, 36. Instr. econ, North Carolina, 34-37, asst. prof, 37-39; economist, wage & hour div, U.S. DEPT. LABOR, 39-42, sr. economist, BUR. LABOR STATIST, 42-43, chief labor econ. staff, 45-47, div. wages & indust. rels, 47-63, ASSOC. CMNR, 63- Dir. res, Nat. War Labor Bd, 43-45; vis. prof, Illinois, 61. Rockefeller pub. serv. award, 55. Econ. Asn; Indust. Rels. Res. Asn. Labor economics; economic theory. Publ: Fair comparison: the case of the United States white-collar civil service, Economica, 11/65; living costs, wages, and wage polity, Monthly Labor Rev, 6/67. Federal wage policy, Labor Law J, 12/67. Address: 4612 Butterworth Place N.W, Washington, D.C. 20016.

DOUVAN, DR. ELIZABETH, b. South Bend, Ind, Nov. 3, 26; m. 47; SOCIAL PSYCHOLOGY. A.B, Vassar Col, 46; Washburn fel, 48-49; Soroptomist fel, 49-50; Ph.D.(soc. psychol), Michigan, 51. Study dir, Surv. Res. Center, MICHIGAN, 50-61, ASSOC. PROF. PSYCHOL, 63- Psychol. Asn. Social attitudes and personality; adolescence. Publ: Co-auth, The adolescent experience, Wiley, 66; auth, Social status and success striving, J. Abnorm. & Soc. Psychol; Some attitudinal consequences of atomic energy, Anns. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

DOVELL, PROF. J(UNIUS) E(LMORE), b. Orlando, Fla, Aug. 15, 11; m. 36; c. 4. POLITICAL & SOCIAL SCIENCE. A.B, Stetson, 33, A.M, 34; Ph.D, North Carolina, 47. Prof. hist. & polit. sci, Flora McDonald Col, 42; assoc. prof. naval sci. & tactics, Wisconsin, 45; instr. soc. sci, North Carolina, 46; FLORIDA, 46, asst. prof. HIST. & SOC. SCI, 46-51, assoc. prof, 51-55, PROF, 55- Dir. annexation survey for city cmnr, Jacksonville, 62. U.S.N.R, 42-, Comdr. History, government and politics of Florida; water resources policy, especially drainage and reclamation of wet lands. Publ: Florida: historic, dramatic, contemporary, Lewis Pub, 52; History of banking in Florida, 1828-1954, Fla. Bankers Asn, 55; East coast of Florida: 1564-1845, In: The history of the east coast of Florida, South. Pub, 62. Address: 1004 N.W. 15th Ave, Gainesville, Fla. 32601.

DOVRING, PROF. FOLKE, b. Rystad, Sweden, Dec. 6, 16; nat; m. 43. AGRICULTURAL ECONOMICS, ECONOMIC HISTORY. M.A, Lund, 38, Ph.D.(econ. hist), 47. Assoc. prof. agrarian hist, Lund, 47-54; statistician, UN Food & Agr. Orgn, Rome, Italy, 54-56, economist, 56-60; PROF. AGR. ECON, ILLINOIS, URBANA, 60- Rockefeller Found. fel, Rome, Italy, Geneva, Switz. & Oxford, Eng, 53-54. Consult, UN Econ Cmn. Europe, Geneva, Switz, 53; Orgn. Econ. Coop. & Develop, Paris, France, 63-64. Artil. Geod. Serv, Swedish Army, 36, 37, 39-40, 43,44,52. Am. Asn. Adv. Slavic Studies; Econ. Hist. Asn; European Soc. Rural Sociol. Mediaeval and general agrarian history; text edition of Grotius; philosophy of history; land reform and related social problems; productivity and manpower problems; Soviet, Latin American and Asian economics. Publ: Land and labor in Europe, 56 & rev. ed, 65 & History as a social science, 60, M. Nijhoff's N.V, Netherlands; Problems of manpower in agriculture (Eng. & Fr. eds), Orgn. Econ. Coop. & Develop, Paris, 65. Address: Dept. of Agricultural Economics, University of Illinois, Urbana, Ill. 61801.

DOW, PROF. E(DWARD) F(RENCH), b. Falmouth, Maine, Apr. 19, 01; m. 30; c. 4. GOVERNMENT. B.S, Bowdoin Col, 25; A.M, Harvard, 26, Ph.D, 32; American Univ, 36-37. Instr. govt, Western Reserve, 26-27; Dartmouth Col, 27-28; assoc. prof. hist. & govt, MAINE, 29-38, PROF. GOVT, 38-, head dept. hist. & govt, 32-66. Chmn, State Employee's Retirement Syst, 42-46; trial justice, Penobscot Co, 42-54; founder & dir, New Eng. Mgrs. Inst, 46-66; lectr, Bowdoin Col, 54. Chmn, State Civil Serv. Cmn, Maine, 41-46, exec. secy, Gov. Cmn. State Govt, 52-53. Polit. Sci. Asn; hon. mem. Int. City Mgrs. Asn. American government, national, state and local. Publ: County government in Maine; Our unknown (Maine) constitution, K.J. Press, 62. Address: 30 North Main St, Orono, Maine 04473.

DOW, DR. GEORGE FARRINGTON, b. South Portland, Maine, July 22, 05; m. 30; c. 3. AGRICULTURAL ECONOMICS. B.S, Maine, 27, M.S, 29; Ph.D. (mkt), Cornell, 37. Asst. agr. econ, exp. sta, MAINE, 27-29, assoc. agr. economist & assoc. prof. agr. econ, col. agr, 29-43, agr. economist & prof, 43-50, asst. dir. EXP. STA, 47-51, assoc. dir, 51-57, DIR, 57- Mem. forestry res. adv. cmt, U.S. Dept. Agr. & Coop. State Res. Serv, 63- Agr. Econ. Asn; Acad. Polit. Soc. Sci. Dairy and poultry marketing; dairy farm management. Address: Agricultural Experiment Station, University of Maine, Orono, Maine 04473.

DOW, PROF. LOREN W(OODBURY), b. Camden, Maine, Mar. 11, 15; m. 37. SOCIOLOGY. Ph.D.(sociol), Boston, 46. Instr. SOCIOL, Pa. State Col, 44-45; asst. prof, Suffolk, 46-49; PROF, EMORY & HENRY COL, 49- Vis. lectr, Missouri, 67-68. Sociol. Asn; Soc. Sci. Study Relig. Sociology of education and religion; social pathology; social status in Appalachian communities. Publ: Gallitzin and the Loretto community; Social status factors in six Appalachian communities, Va. Soc. Sci. J, fall 66. Address: Box 131, Emory & Henry College, Emory, Va. 24327.

DOW, PROF. LOUIS A(RNOLD), b. Shelbyville, Ind, Apr. 25, 27; m. 48; c. 3. ECONOMICS. B.S, Indiana, 49, M.B.A, 51, Ph.D.(econ), 59. Asst. prof. ECON, Arkansas, 54-56; Oklahoma, 56-61; assoc. prof, N.C. State Col, 61-67; PROF, HOUSTON, 67- U.S.N.R, 46. Econ. Asn. Economic theory; microeconomics and macroeconomics. Publ: Business fluctuations in a dynamic economy, C.E. Merrill, 67; Note on Marshall and selling costs, J. Mkt; Institutionalism and contemporary price theory, Am. J. Econ. & Sociol. Address: Dept. of Economics, University of Houston, Houston, Tex. 77004.

DOW, MAJ. MAYNARD WESTON, U.S.A.F, b. Brunswick, Maine, May 23, 29; m. 52; c. 3. GEOGRAPHY. B.S, U.S. Naval Acad, 52; M.A, Rutgers, 60; Ph.D.(geog), Syracuse, 65. Asst. prof. air sci, Rutgers, 56-60; U.S. AIR FORCE, 60-, ASSOC. PROF. GEOG, U.S. AIR FORCE ACAD, 60- Summer researcher, adv. res. projs. agency, Off. Secy. Defense, 66. Asn. Am. Geog; Asn. Asian Studies. Resettlement in Southeast Asia; Hoa Hoa of South Vietnam. Publ: Nation building in Southeast Asia, Pruett, 66. Address: Dept. of Geography, U.S. Air Force Academy, Colo. 80840.

DOW, DR. THOMAS EDISON, JR, b. New York, N.Y, May 25, 36; m. 58; c. 1. SOCIOLOGY. B.A, Hunter Col, 58; M.A, Pennsylvania, 60, Ph.D.(sociol), 62. From instr. to asst. prof. SOCIOL, Russell Sage Col, 61-64; asst. prof, Mt. Holyoke Col, 64-68; FIELD ASSOC. DEMOG. DIV. POP. COUN, 68- Ford Found. res. grants, Asian-African Studies Prog. of Amherst Col, Mt. Holyoke Col, Smith Col. & Univ. Massachusetts, 65-67. Fel. Sociol. Asn; fel. African Studies Asn; Pop. Asn. Demography; sociological theory. Publ: Optimism, physique and social class in reaction to disability, J. Health & Human Behav, spring 66; The role of charisma in modern African development, Soc. Forces, 3/68; Attitudes toward family size and family planning in Nairobi, Demography, (in press). Address: Population Council, 245 Park Ave, New York, N.Y. 10017.

DOWD, PROF. DOUGLAS F(ITZGERALD), b. San Francisco, Calif, Dec. 7, 19; m. 42; c. 2. ECONOMICS. A.B. & Ph.D.(econ), California, 51. Lectr. econ. & bus. admin, California, 50-53; from asst. prof. to PROF. ECON, CORNELL, 53- U.S.A.A.F, 42-46, Capt. Am. Econ. Hist. Asn; Brit. Econ. Hist. Soc. American and European economic history, especially Italy; economics of underdeveloped areas. Publ: Modern economic problems in historical perspective. Address: Dept. of Economics, Cornell University, Ithaca, N.Y. 14850.

DOWD, EDWARD JOSEPH, JR, b. Holyoke, Mass, May 24, 21; m. 43; c. 3. INDUSTRIAL PSYCHOLOGY. A.B, Am. Int. Col, 47; M.Ed, Springfield Col, 52. Mgt. trainee, Libby-Owens-Ford Glass Co, Ohio, 52-53; employ. supvr. & training dir, Toledo Edison Co, 53-55; EXEC. SECY, Employers' Asn. Toledo, 55-58; CENT. PIEDMONT INDUSTS, INC, 58- Instr, Foreman's Club Toledo, 54-56; lectr, Toledo, 55-57; Queens Col.(N.C), 58-60. Consult, Indust. Ed. Assocs, Ohio, 56-58; voc. expert, U.S. Dept. Health, Ed. & Welfare, 62- Mem. exec. cmt, Nat. Indust. Coun, D.C, 60-61, chmn. indust. rels. group, 67-68. U.S.N, 43-46. Psychol. Asn. Motivational factors affecting human behavior in an industrial setting and their effects on production, morale and attitude towards work. Publ: Personnel policies and practices; Employee indoctrination, Elec. World. Address: Central Piedmont Industries, Inc, 209 Cole Bldg, 207 Hawthorne Lane, Charlotte, N.C. 28204.

DOWD, PROF. FRANCIS MICHAEL, b. Tupper Lake, N.Y, Mar. 24, 00. PSYCHOLOGY. B.S, Syracuse, 25; hon. M.S, Rider Col, 30; M.S, Rutgers, 32, Ed.D, 56. Assoc. prof, Rider Col, 25-42; psychologist, Vet. Admin, N.J, 46-47; assoc. prof. PSYCHOL, Rutgers, 47-67; PROF, UNION COL. N.Y, 67- N.J. del, Psychol. Convention, Germany, 60, Denmark, 61. U.S.A, 42-46, Res, 46-, Lt. Col. Psychol. Asn. Vocational psychology. Publ: Mental hygiene survey: N.J. schools. Address: 3 Redcliffe Ave, Highland Park, N.J. 08904.

DOWD, DR. LAURENCE PHILLIPS, b. Ft. Monroe, Va, Oct. 21, 14; m; c. 3. BUSINESS ADMINISTRATION. B.A, Washington (Seattle), 38; M.A, Hawaii, 40; Ph.D.(econ), Michigan, 54. Instr. econ. & bus, Washington (Seattle), 40-

41, 46, assoc. prof. bus. admin, 50-55; instr. econ, Michigan, 46-50; Fulbright lectr. bus. admin, Kobe, 55-57; lectr, Michigan & dir. Mich. Bus. Exec. Res. Conf, 57-60; prof. bus. admin, SAN FRANCISCO STATE COL, 60-61, DIR. CENTER WORLD BUS, 61- Lectr, Japanese Govt, 54. Mem, San Francisco Regional Export Expansion Coun, 62- Pan Am. World Airways award, 65. Mil. Intel, 41-45, Maj. Econ. Asn; Mkt. Asn; Asn. Ed. Int. Bus. Methods and practices of Japanese business enterprise; European economic community; St. Lawrence Seaway; impact of international trade on San Francisco Bay region; problems of medium size European business organizations. Publ: Principles of world business, Allyn & Bacon, 65; European economic community: implications for Michigan business & St. Lawrence Seaway: practical aspects for Michigan industry, Mich. Bus. Reports. Address: Center for World Business, San Francisco State College, San Francisco, Calif. 94132.

DOWD, SISTER M. AMADEUS, I.H.M, b. Detroit, Mich. PSYCHOLOGY. B.A, Marygrove Col, 31; M.A, Notre Dame, 41; Ph.D, Catholic Univ, 47. Teacher, St. Mary Acad, Mich, 27-38; supvr. schs, Detroit, 38-44; DEAN MARYGROVE COL, 47-, PROF. PSYCHOL, 53- Psychol. Asn. Publ: Suggestions for the training of children; Changes in moral reasoning through the high school years. Address: Dept. of Psychology, Marygrove College, Detroit, Mich. 48221.

DOWD, DR. MORGAN D(ANIEL), b. Boston, Mass, Feb. 21, 33; m. 59; c. 3. POLITICAL SCIENCE. B.A, St. Michael's Col.(Vt), 55; LL.B, Catholic Univ, 58; M.A, Massachusetts, 62, Ph.D.(govt), 64. Instr. Am. govt, Maine, 59-60; Massachusetts, 60-61; asst. prof. AM. GOVT. & PUB. LAW, STATE UNIV. N.Y. COL. FREDONIA, 63-67, ASSOC. PROF, 67- State Univ. N.Y. Res. Fund grant-in-aid, 66-68, faculty res. fel, summer 67. Polit. Sci. Asn; Acad. Polit. Sci; Law & Society Asn. Judicial process; value system of British judges in obscenity cases. Publ: The courts as a restraint on administrative power: a comparative study in constitutional theory, Univ. Detroit Law J, 6/63; Justice Joseph Story: a study of the legal philosophy of a Jeffersonian judge, Vanderbilt Law Rev, 3/65; Justice Story and the slavery conflict, Mass. Law Quart, 9/67. Address: Dept. of Political Science, 225 Fenton, State University of New York at Fredonia, Fredonia, N.Y. 14063.

DOWDY, PRES. LEWIS CARNEGIE, b. Eastover, S.C, Sept. 1, 17; m. 43; c. 3. EDUCATIONAL ADMINISTRATION & PSYCHOLOGY. A.B, Allen, 39, Litt.D, 62; M.A, Indiana, 49; Ed.D.(ed. admin), Indiana, 65. Prin, high schs, S.C, 39-51; instr. ed, A&T STATE, 51-56, dean sch. ed, 56-60, dean instr, 60-64, acting pres, 61-64, PRES, 64- Lectr, Indiana, 65. Mem. Kellogg Study Cmn. Ed, 58-59; Cmn. Study Pub. Schs. N.C, 67. Nat. Soc. Study Ed. Sociology. Publ: Seven principles underlying academic planning, Improving Col. & Univ. Teaching, 62; Creating an atmosphere conducive to learning, Negro Ed. Rev, 63; The vital role of a modern college, Vital Speeches, 65. Address: Office of the President, A&T State University, Greensboro, N.C. 27411.

DOWELL, DR. ARTHUR E, b. Terre Haute, Ind, Jan. 27, 20; m. 43; c. 1. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.S, Ind. State Teachers Col, 46, M.S, 49; Ph.D.(int. rels), Chicago, 67. Teacher, high sch, Ind, 46-49, Harvard Private Sch, Ill, 51-52, teacher & chmn. dept. soc. studies, high sch, Mich, 52-57; PROF. POLIT. SCI, INDIANA STATE, 57- Sig.C, U.S.A, 42-45, Sgt. International politics; American foreign policy. Address: Dept. of Political Science, Indiana State University, Terre Haute, Ind. 47809.

DOWELL, PROF. AUSTIN ALLYN, b. Gaynor City, Mo, Sept. 27, 91; m. 16; c. 4. AGRICULTURAL ECONOMICS. B.S, Iowa State Col, 15; M.S, Minnesota, 25, Ph.D.(agr. econ), 32. Instr. animal husb, Iowa State, 15-17; prof. animal & dairy husb. & chief dept, Alberta, 17-22; livestock exten. specialist, MINNESOTA, ST. PAUL, 22-27, prof. & supt, northwest sch. & agr. exp. sta, 27-37, prof. AGR. ECON, UNIV, 37-60, dir. RESIDENT INSTR. & asst. dean, COL. AGR, FORESTRY & HOME ECON, 52-60, EMER. PROF, EMER. DIR. & EMER. ASST. DEAN, 60- Fel. AAAS; Agr. Econ. Asn. Foreign trade; land and production economics; livestock marketing. Publ: Co-auth, American farmer and the export market & Livestock marketing. Address: 922 Fifth St, Nevada, Iowa 50201.

DOWELL, DR. BOYD MAX, b. Shouns, Tenn, July 31, 34; m. 58; c. 2. PSYCHOLOGY. B.S, Bob Jones Univ, 56; M.S, Tennessee, 58, Ed.D.(ed. psychol), 67. Teacher, pub. schs, Ohio, 58-60, 61-62; mgt. trainee, J.C. Penney Co, 60-61; asst. prof. PSYCHOL, Cedarville Col, 62-67; ASSOC. PROF, APPALACHIAN STATE, 67- Psychol. Asn; Am. Sci. Affiliation. Better ways of teaching psychology; students' attitude toward psychology and achievement in general psychology. Address: Dept. of Psychology, Appalachian State University, Boone, N.C. 28607.

DOWELL, REV. W(ILLIAM) J(OSEPH), Sociol, see 10th ed, Soc. & Behav. Vols.

DOWIS, JAMES L(EE), Psychol, see 10th ed, Soc. & Behav. Vols.

DOWLEN, DR. CAROLINE L(AWTHER), b. Dallas, Tex, May 16, 10; wid; c. 2. CLINICAL PSYCHOLOGY. B.S, Southern Methodist, 36; M.S, Houston, 49, Ph.D, 56. Teacher, pub. sch, Tex, 30-35; psychometrist, Johnson O'Connor Res. Found, 47-49; psychometrist & exec. secy, testing & guid.dept, Houston, 49-52; clin. psychologist, med. sch, Texas, 52-57; dir. spec. ed, Clark County Sch, Nev, 57-59; sr. clin. psychologist, bur. ment. health, State Health Dept, Rehab. of Juvenile Delinquents & Ment. Health Data Collection, 59-67; SR. CLIN. PSYCHOLOGIST. & CLIN. ADMINSTR, BUR. COMMUNITY SERV, MENT. HYG. DIV, STATE DEPT. HEALTH, WELFARE & REHAB, 67- Rehabilitation of juvenile delinquents; mental health data collection. Address: 1000 Shadow Lane, Las Vegas, Nev. 89106.

DOWLEY, DR. EDITH M(ARY), b. New York, N.Y, May 26, 10. PSYCHOLOGY. B.A, Marygrove Col, 32; M.A, Michigan, 35; Ed.D, Stanford, 51. Demonstration teacher, univ. elem. sch, Michigan, 35-43; group supvr, child serv. center, Kaiser Shipbldg. Corp, Ore, 43-44; assoc. & acting head dept. early childhood ed, Merrill-Palmer Sch, 45-48; instr. PSYCHOL, STANFORD, 48-51, asst. prof, 51-56, ASSOC. PROF, 56- Nat. ed. consult, Proj. Head Start, 65- Soc. Res. Child Develop. Child development and psychology; parent-child relations. Publ: Co-auth, Research on teaching in the nursery school, In: Handbook of research on teaching; Activity level and intellectual functioning in normal preschool children, Child Develop, 9/65; auth, Early childhood education, In: Encyclopedia of educational research, 4th ed, 69. Address: 325 Ambar Way, Menlo Park, Calif. 94025.

DOWNES, PROF. ALAN J(AMES), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DOWNES, DR. BRYAN TREVOR, b. Vancouver, B.C, Sept. 22, 39; U.S. citizen; m. 63; c. 1. POLITICAL SCIENCE. B.S, Oregon, 62, M.S, 63; Ph.D.(polit. sci), Washington (St. Louis), 66. ASST. PROF. POLIT. SCI, San Francisco State Col, 66-67; MICH. STATE, 67- Polit. Sci. Asn. Publ: Suburban differentiation and municipal policy choices: a comparative analysis of suburban political systems, In: Community structure and decision-making, Chandler, (in press). Address: Dept. of Political Science, South Kedzie Hall, Michigan State University, East Lansing, Mich. 48823.

DOWNEY, JAMES P, b. New York, N.Y, Feb. 4, 30; m. 60; c. 3. MARKETING, INSTRUMENTATION. B.A, St. John's (N.Y), 52; B.S, Hartford, 57; M.B.A, N.Y. Univ, 63. Field engr, Maxson Electronics Corp, 57; sales engr. & br. mgr, Bristol Co, La, 57-62; sr. appln. engr, Honeywell Inc, Pa, 63-64; planning consult, Sperry Gyroscope Co, N.Y, 64-66; sr. consult, Diebold Group, N.Y, 66-67; MGR. INDUST. MKT. RES, CHILTON CO, PHILA, 67- Lectr, Drexel Inst, 67- U.S.A.F, 52-56; Air Nat. Guard, Maj. Instrument Soc. Am. Application of scientific techniques to industrial marketing research; use of computerization to optimize results and isolate critical variables. Address: 1218 Herbert Rd, Meadowbrook, Pa. 19001.

DOWNEY, DR. KENNETH J, b. Buffalo, N.Y, Aug. 26, 31; m. 55; c. 1. SOCIOLOGY. B.A, Buffalo State Teachers Col, 54; M.A, Illinois, 59, Ph.D. (sociol), 62. ASST. PROF. SOCIOL, Calif. State Col. Long Beach, 61-62; STATE UNIV. N.Y. BUFFALO, 62- U.S.A, 54-56. AAAS; Sociol. Asn; Soc. Study Social Probs. Sociology of science, especially Socialization and enculturation of scientists; psychiatric sociology, especially public images of mental disorder; family especially effects of retarded child on family. Publ: Parental interest in institutionalized, severely mentally retarded children, Soc. Probs, fall 63; Public images of mental illness, Soc. Sci. & Med, spring 67; Sociology and modern scientific revolution, Sociol. Quart, spring 67. Address: Dept. of Sociology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

DOWNEY, DR. MATTHEW T, Am. Hist, Urban Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DOWNEY, DR. W(ALTER) DAVID, b. Wabash, Ind, Sept. 1, 39; m. 60; c. 2. AGRICULTURAL ECONOMICS. B.S, Purdue, 61, M.S, 63, Ph.D.(agr. econ), 67; Oregon State, 63. ASST. PROF. AGR. ECON, PURDUE, 66- Agr. Econ. Asn; Mkt. Asn. Agricultural business management. Publ: Co-auth, Financial and operating standards for supermarkets, Nat. Asn. Retail Grocers, 66. Address: Dept. of Agricultural Economics, Purdue University, West Lafayette, Ind. 47907.

DOWNIE, DR. NORVILLE M, b. Troy, N.Y, Dec. 13, 10; m. 42; c. 4. PSYCHOLOGY. B.S, St. Lawrence, 32; Ph.D.(ed. psychol), Syracuse, 48. Instr. biol, St. Lawrence, 33-36; Robert Col. Istanbul, 36-39; teacher, high sch, N.Y, 39-42; asst. & instr. psychomet, Syracuse, 46-48; from asst. prof. to assoc. prof. ed, State Col. Wash, 48-51; from assoc. prof. to PROF. PSYCHOL, PURDUE, 51- Consult, Vet. Admin. Hosps, Marion & Indianapolis, Ind, 53- U.S.A.A.F, 42-45. AAAS; Psychol. Asn. Evaluation related human abilities and personality traits; counseling. Publ: Fundamentals of measurement; co-auth, Basic statistical methods; Procedures and preparation for counseling. Address: 505 Lingle Terr, Lafayette, Ind. 47901.

DOWNING, PROF. ROBERT W(ILBER), b. Wilkes-Barre, Pa, Dec. 11, 30; m. 67. CLINICAL PSYCHOLOGY. B.A, Pennsylvania, 52, M.A, 54, Ph.D, 57. Asst. instr. PSYCHOL IN PSYCHIAT, SCH. MED, PENNSYLVANIA, 56-58, instr, 58-60, assoc, 60-64, ASST. PROF, 64- Asst. prof, Phila. Col. Pharm, 61-64; assoc. Phila. Gen. Hosp, 62- Consult, Children's Seashore House for Invalid Children, Atlantic City, N.J, 58-59. AAAS; Psychol. Asn; Group Psychother. Asn. Cognitive pathology in schizophrenia; influence of personality on reaction to pharmacologic agents; experimental design. Publ: Co-auth, Effects of phenothiazines on the thinking of acute schizophrenics, Perceptual & Motor Skills, 63; Family dynamics in a case of Maladie des Tics, J. Nerv. & Ment. Disease, 64; Self-report of hostility and the incidence of side reactions in neurotic outpatients treated with tranquilizing drugs and placebo, J. Consult. Psychol, 67. Address: 148 Glenview Ave, Wyncote, Pa. 19095.

DOWNS, DR. ANTHONY, b. Evanston, Ill, Nov. 21, 30; m. 56; c. 5. ECONOMICS, POLITICAL SCIENCE. B.A, Carleton Col, 52; Wilson fel, Stanford, 52-53, Rosenberg fel, 52-53, Earhart fel, 54-55, Off. Naval Res. fel, 55-56, M.A. & Ph.D.(econ), 56. Sr. analyst urban econ, REAL ESTATE RES. CORP, 59-60, dir. retail anal, 60-62, SR. V.PRES. URBAN PLANNING & ECON. STUDIES, 62- Asst. prof, Chicago, 59-61. Econ. consult, Rand Corp, 63-65; consult, City of Chicago, 64-; Econ. Develop. Admin, 65-; Dept. Housing & Urban Develop, 66-; Nat. Adv. Cmn. Civil Disorders, 67- Mem, Nat. Cmn. Urban Probs, 66-68. U.S.N.R, 56-59, Lt.(jg). Econ. Asn. Relation of politics to economic decision-making; theories of democratic decision-making and the public interest; urban and real estate economics; urban transportation economics; economics location theory. Publ: An economic theory of democracy; Inside bureaucracy, Little, 67; co-auth, A theory of large managerial firms, J. Polit. Econ, 66. Address: 39 Brinker Rd, Barrington, Ill. 60010.

DOWNS, DR. JACQUES M, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DOWNS, DR. JAMES F(RANCIS), b. Pasadena, Calif, Dec. 20, 26; m. 60; c. 1. ANTHROPOLOGY. B.A, California, 58, Nat. Inst. Ment. Health fel, 60-61, Ph.D, 61. Nat. Inst. Ment. Health res. fel, 61; Lang fel. Chinese, Nat. Defense Ed. Asn, Washington (Seattle), 61-62; asst. prof. anthrop. & E.Asian

studies, Rochester, 62-65; ASSOC. PROF. ANTHROP, ARIZONA, 65- Sr. collab. scientist, Nat. Sci. Found. res. grant, 66- U.S.N, 44-47, 50-51. Fel. Anthrop. Asn; Tibet Soc. History of animal domestication; pastoral and husbandry societies; cultural ecology; Tibet and central Asia; agricultural technology and society. Publ: Animal husbandry in Navajo society and culture, Univ. California, 64; Two worlds of the Washo, Holt, 65; Social consequences of a dry well, Am. Anthropologist, 64. Address: Dept. of Anthropology, University of Arizona, Tucson, Ariz. 85721.

DOWNS, DR. RICHARD E(RSKINE), b. Cambridge, Mass, Dec. 2, 20; m. 49; c. 2. ANTHROPOLOGY. B.S, Harvard, 42; cert. ethnol, Paris, 49; Ph.D. (anthrop), Leiden, 56. Res. assoc. ANTHROP, Illinois, 57-62; asst. prof, NEW HAMPSHIRE, 62-66, ASSOC. PROF, 66- U.S.N.R, 42-47, Lt. Fel. Anthrop. Asn; Asn. Asian Studies; Royal Inst. Ling, Geog. & Anthrop. Social structure; religion; Southeast Asia, especially Indonesia and Malaysia. Publ: Religion of the Bare'e-speaking Toradja, Excelsior, 56; A Kelantanese village of Malaya, In: Contemporary change in traditional societies, Vol. 2, Univ. Illinois, 67. Address: Dept. of Sociology, University of New Hampshire, Durham, N.H. 03824.

DOXEY, PROF. GEORGE VICTOR, b. Cape Town, S.Africa, May 26, 26; Can. citizen. ECONOMICS. B.Sc, London, 49; Barrister at Law, Lincoln's Inn, 54; M.A, Cape Town, 56. Dipl, S.African For. Serv, 48-53; lectr. econ, Cape Town, 53-57; res. dir.econ. hist. Anglo-Am. Corp. S.Africa, 58-59; sr. lectr. appl. econ, Witwatersrand, 59-61; adv. ECON, Brit. For. Office, 61-62; assoc. prof, YORK (ONT), 62-65, PROF, 65-, ADMIN. STUDIES, SCH. BUS, 67-, chmn. dept. econ, 63-67. Lectr, London, 61-62; res. dir. probs. arising from tech. change & consult, Graphic Arts Indust. Toronto, 65-; spec. lectr, Can. Armed Forces Cols, 66-; participant, Tripartite Econ. Surv. East. Caribbean, 66; Ayres fel, Stonier Grad. Sch. Banking, 67. Consult, Can. Bankers Asn, 64-65; Can. Fed. Dept. Manpower, 65- Mem, Royal Inst. Int. Affairs; Can. Inst. Int. Affairs. Am. Econ. Asn; Can. Econ. Asn; fel. Royal African Soc. European and Commonwealth economic history; development economics and politics; African and the Caribbean; macroeconomics; money and banking; international economics; manpower and public policy. Publ: The industrial colour bar in South Africa, 62 & The high commission territories and the Republic of South Africa, 63, Oxford Univ; co-auth, Economic Survey of Eastern Caribbean, Her Majesty's Stationery Off, 67. Address: Dept. of Economics, York University, Toronto 12, Ont. Can.

DOXEY, PROF. WILLARD B, b. Ogden, Utah, Jan. 17, 15. ECONOMICS. B.S, Utah, 37, M.S, 47; Ph.D, California, 56. From instr. to asst. prof. ECON, BRIGHAM YOUNG, 56-63, assoc. prof, 63-67, PROF, 67- Econ. Asn. International trade restrictions as applied to United States; dried fruits. Address: 304 JKB, Brigham Young University, Provo, Utah 84601.

DOYLE, CHARLES I(GNATIUS), S.J, b. Chicago, Ill, July 31, 89. PSYCHOLOGY. A.B, Gonzaga, 18, M.A, 19; Ph.D.(psychol), St. Louis, 33. Instr, St. Mary's Col.(Kans), 19-20; Eng, Marquette, 20-22; assoc. ed, America, N.Y, 27-31; from instr. to prof. psychol, Loyola (Ill), 33-61, dir. center child guid. & psychol. serv, 41-61; COUNSELING & VOC. GUID, JESUIT FACULTY RESIDENCE, 61- Fel. Psychol. Asn. Thought processes; child guidance; parental counseling. Address: Jesuit Faculty Residence, 6525 Sheridan Rd, Chicago, Ill. 60626.

DOYLE, PROF. GEORGE A(LOYSIUS), b. Brooklyn, N.Y, Sept. 30, 17; m. 41; c. 8. ECONOMICS. B.S.S, St. John's (N.Y), 38; Proctor fel, Niagara, 38-39, M.A, 39; Ph.D.(econ), Fordham, 51; cert, Harvard, 63. Statistician, Am. Potash & Chem. Corp, 39; credit man, E.R. Squibb & Sons, Inc, 40-42; instr, Fordham, 46-47; head dept. econ, Marymount Col.(N.Y), 47-53; economist, Cent. Intel. Agency, 53-61; PROF. ECON, ASSUMPTION COL, 61-, DIR. BLUTRADE CENTER, 63-, dir, Nat. Sci. Found. Summer Inst. Econ, 65-67. Ford Found. fel. interegional econ, Brown, 63. Investment analyst, E.W. Axe & Co, 51. Consult, Indust. Col. Armed Forces, 56-58; U.S. Army War Col, 58- Mem, Governor's Coun. For. Trade, 64- U.S.M.C, 42-46, Res, 46-62, Maj. Econ. Asn; Ord. Asn. International economics. Publ: Co-auth, A design for a locally oriented export expansion program, Int. Mkt. Inst, 1/65; auth, BLUTRADE an export expansion program that works, Gen. Agreement Tariff Trade Int. Trade Forum, 9/65; New departures in international economics, Bentley Bus. & Econ. Rev, 10/67. Address: Dept. of Economics, Assumption College, Worcester, Mass. 01609.

DOYLE, PROF. WILLIAM A(UGUSTINE), b. Baltimore, Md, Oct. 4, 17; m. 48; c. 4. PSYCHOLOGY. A.B, Loyola Col.(Md), 39; M.A, Catholic Univ, 52. Voc. counsr, Loyola Col.(Md), 47-51; psychologist, House of Correction, Md, 51-56; correctional psychologist, State Penitentiary, 56-63; psychologist, Bd. Ed, Baltimore County, Md, 63-67; ASST. PROF. PSYCHOL, LOYOLA COL. (MD), 67-, prof. lectr, 52. Psychologist Bd. Ed, Baltimore County, Md, 67- U.S.A, 42-47, Lt. Psychol. Asn. Therapy and projective techniques, especially criminal population and methods of teaching psychology; learning disabilities in children. Address: 8509 Tallwood Rd, Lutherville, Md. 21093.

DOZEMAN, DR. ALVIN, b. Ottawa Co, Mich, Sept. 7, 32. POLITICAL SCIENCE. B.A, Mich. State, 58, M.A, 60; N.Y, Univ, 58-59; Ph.D.(polit. sci), Duke, 66. ASST. PROF. POLIT. SCI, CONNECTICUT, 63- U.S.A, 52-54. Polit. Sci. Asn. Political process, including politics and electoral behavior and how they influence the operation of governmental institutions. Address: Box 373, Storrs, Conn. 06268.

DOZIER, DR. C(RAIG) L(ANIER), b. Spartanburg, S.C, June 14, 20; m. 56; c. 2. GEOGRAPHY. B.A, Wisconsin, 47; M.A, Maryland, 51; Ph.D, Hopkins, 54. Instr. GEOG, Maryland, 51-52; asst. prof, South Carolina, 54-56; Rollins Col, 57-59; assoc. prof, La. Polytech, 59-60; ASSOC. PROF. & CHMN. DEPT, NORTH CAROLINA, GREENSBORO, 60- Nat. Acad. Sci-Nat. Res. Coun. res. grant, 56-57; Soc. Sci. Res. Coun. res. grant, 65-66. U.S.A.A.F, 42-45. Asn. Am. Geog. Latin American countries, especially Brazil, Central America, and Mexico; Mediterranean Europe; land use, systems, and tenure; development of unused lands; irrigation; settlement and colonization techniques. Publ: Indigenous tropical agriculture in Central America; North Parana, Brazil: an example of organized regional development, Geog. Rev; Mexico's transformed northwest: the Yaqui, Mayo and Fuerte examples. Geog. Rev, 63. Address: Dept. of Geography, University of North Carolina, Greensboro, N.C. 27412.

DOZIER, PROF. EDWARD P, b. Santa Clara Pueblo, N.Mex, Apr. 23, 16; m; c. 1. ANTHROPOLOGY. B.A, New Mexico, 47, M.A, 49; Soc. Sci. Res. Coun. fel, California, Los Angeles, 49-50, Whitney fel, 50-51, Ph.D.(anthrop, ling), 52. Instr. anthrop, Oregon, 51-52; researcher, Wenner-Gren Found. Anthrop. Res, 52-53; from instr. to assoc. prof. anthrop. & ling, Northwestern, 53-58; Center Adv. Study Behav. Sci. res. fel, Stanford, 58-59; Nat. Sci. Found sr. fel. field res, Philippines, 59-60; PROF. ANTHROP. & LING, ARIZONA, 60- Consult, United Scholar. Serv, Colo. & U.S. Off. Ed, 66- U.S.A.A.F, 41-45. Fel. AAAS; fel. Anthrop. Asn; fel. Sociol. Asn; Ling. Soc; Ethnol. Soc; Soc. Appl. Anthrop; Asn. Am. Indian Affairs. Peasant societies; ethnohistorical studies. Publ: Mountain arbiters—the changing life of a Philippine hill people, 66; Hano—a Tewa Indian community in Arizona, 66; The Kalinga of northern Luzon, Philippines, 67. Address: Dept. of Anthropology, University of Arizona, Tucson, Ariz. 85721.

DRABEK, DR. THOMAS E, b. Chicago, Ill, Feb. 29, 40; m. 60; c. 1. SOCIOLOGY. B.A, Denver, 61; Nat. Defense Ed. Act fel. & M.A, Ohio State, 62, Ph.D.(sociol), 65. Res. assoc. SOCIOL, Ohio State, 63-65; ASST. PROF, DENVER, 65- Nat. Inst. Ment. Health res. grant, 65-67; Nat. Sci. Found. res. grant, 66-68; Air Force Off. Sci. Res. grant, 67-68. Sociol. Asn. Individual, group and organizational response to stress condition, especially those created by large scale community disasters. Publ: Co-auth, Law and the lawless: an anthology of criminal matters, Random, 68; auth, Disaster in aisle 13, 68 & Laboratory simulation of a police communication system under stress, 68, Ohio State Univ. Address: Dept. of Sociology, University of Denver, Denver, Colo. 80210.

DRACHKOVITCH, DR. MILORAD M, b. Beograd, Yugoslavia, Nov. 8, 21; m. 56; c. 2. POLITICAL SCIENCE. B.A, Geneva, 49, Ph.D, 53; dipl, Col. of Europe, 53. Dir. studies, Col. of Europe, 56-58; lectr. polit. sci, Brooklyn Col, 58-59; vis. asst. prof, California, 59-60; fel. polit. hist, Russian Res. Center, Harvard, 60-61; MEM. SR. STAFF, HOOVER INST, STANFORD, 61-, LECTR. POLIT. SCI, UNIV, 62-, summer vis. asst. prof, 57, 59. Polit. Sci. Asn. Comparative government and political history, particularly in the field of Marxist and general communist studies. Publ: Les socialismes français et allemand et le problème de la guerre, 1870-1914, Droz, Genève, 53; ed, Marxism in the modern world, Stanford, 65 & co-ed, The Comintern: historical highlights, Praeger, 66. Address: Hoover Institution, Stanford University, Stanford, Calif. 94305.

DRAGNICH, PROF. ALEX N, b. Republic, Wash, Feb. 22, 12; m. 37; c. 3. POLITICAL SCIENCE. B.A, Washington (Seattle), 38; M.A, California, 39, univ. fel. & Ph.D.(polit. sci), 45. Sr. propaganda analyst & polit. analyst, U.S. Dept. Justice, 42-44; res. analyst, Off. Strategic Servs, 44-45; asst. prof, Western Reserve, 45-47; cultural attache & pub. affairs officer, Am. Embassy, Belgrade, 47-50; assoc. prof. POLIT. SCI, VANDERBILT, 50-52, PROF, 52- Soc. Sci. Res. Coun. travel fel, 52; Fund Adv. Ed. fel, 55-56; lectr, Army War Col, 56; Chester W. Nimitz prof, U.S. Naval War Col, 59-60. Polit. Sci. Asn. Decision making process and instruments of control in communist states; political developments in Yugoslavia. Publ: Tito's promised land; Major European governments; co-auth, Government and politics, Random, 66. Address: 400 Fairfax Ave, Nashville, Tenn. 37212.

DRAGOSITZ, ANNA, b. New York, N.Y, Oct. 9, 14. EDUCATIONAL PSYCHOLOGY, GUIDANCE. B.S, Columbia, 40, M.A, 43. Asst. ed. psychol, teachers col, Columbia, 30-41, assoc. in charge testing & counseling div, 41-47; head prog. & serv, ed. measurement, Coop. Test Serv, 47-49; asst. dir, coop. test div, ED. TESTING SERV, 49-52, eval. & adv. serv, 52-53, assoc. dir, 53-56, dir, 56-60, asst. to pres. & dir. spec. studies, 60-61, acting dir, EVAL. & ADV. SERV, 61-62, DIR, 62- Lectr, Brooklyn Col, 45-46; summer, Am. Specialists grant, India, 59. Fel. AAAS; Psychol. Asn; Nat. Coun. Measurement in Ed.(ed, Newsletter, 60-64); Asn. Measurement & Eval. Guid. Publ: What is the role of testing in counseling?, In: College counseling and testing; Examinations in Indian higher education; co-auth, Supplementary guide for the revised Stanford-Binet, Appl. Psychol. Monogr. Address: 36 Woodland Dr, Princeton, N.J. 08540.

DRAGUNS, DR. JURIS G(EORGE), b. Riga, Latvia, Apr. 8, 32; U.S. citizen; m. 62; c. 1. CLINICAL PSYCHOLOGY. B.A, Syracuse, 54; Ph.D.(clin. psychol), Rochester, 62. Sr. clin. psychologist, Rochester State Hosp, N.Y, 58-63; res. psychologist, Worcester State Hosp, Mass, 63-67; ASSOC. PROF. PSYCHOL, PA. STATE, 67- Lectr. Rochester, 59-61; vis. psychologist, Albion State Training Sch. & West. Reformatory, 62-63; lectr, Clark, 63-67; spec. lectr, Leicester Jr. Col, 63-67. Psychol. Asn; Interam. Psychol. Soc. Perception and cognition in psychopathology; projective personality tests; crosscultural comparison of psychopathological manifestations. Publ: Responses to cognitive and perceptual ambiguity in schizophrenics, J. Abnorm. & Soc. Psychol, 63; Affective meaning of reduced stimulus input: a study by means of the semantic differential, Can. J. Psychol, 67; co-auth, Studies of Rorschach content, J. Proj. Tech, 67. Address: Dept. of Psychology, Pennsylvania State University, University Park, Pa. 16802.

DRAKE, DR. A(LBERT) E(STERN), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DRAKE, PROF. CHARLES G(OODLOE), b. Warsaw, Mo, Mar. 4, 14; m. 49; c. 3. ECONOMICS. A.B, Westminster Col.(Mo), 35; M.A, Washington (St. Louis), 52; Ph.D.(econ), Missouri, Columbia, 65. Instr. econ, Washington (St. Louis), 48-49; asst. prof. econ. & bus, Westminster Col.(Mo), 49-52; instr. econ. & bus, Missouri, 52-56, 58-60; asst. prof. bus. mgt, Oklahoma, 56-58; assoc. prof. econ. & bus. admin, Parsons Col, 60-62; assoc. prof. econ. & bus. admin. & chmn. dept, Millikin, 62-65; ASSOC. PROF. ECON, SOUTHERN ILLINOIS, EDWARDSVILLE, 65- Instr, Christian Col, 52-54; Nat. Sci. Found. fel, Missouri, summer, 65. Consult, State Reorgn. Cmn, Mo, 54. U.S.N, 42-46, Lt. Econ. Asn; Indust. Rels. Res. Asn. Management; labor economics; statistics; cyclical behavior of various types and classifications of employment. Publ: Noninsured employment and business cycles, Bus. & Govt. Rev, 9-10/67. Address: 344 Sunset Dr, Edwardsville, Ill. 62025.

DRAKE, DR. ELIZABETH JOHNS, Sociol, see 10th ed, Soc. & Behav. Vols.

DRAKE, PROF. JERRY EDWARD, b. Edna, Tex, Sept. 22, 07; m. 40; c. 4. MARKETING, QUANTITATIVE ANALYSIS. A.B, Southern Methodist, 30, B.B.A, 46; M.B.A, North Texas State, 49; Ph.D.(mkt), Texas, 56. Advert. salesman, Dallas Dispatch, 30-31; Dallas Times Herald, 31-32; mgr. student pub, SOUTHERN METHODIST, 32-46; instr. MKT, 46-50, asst. prof, 50-56, assoc. prof, 56-58, PROF, 58-, CHMN. DEPT, 56-, acting chmn. dept, 50-56. Dallas County Home Builders Asn. res. grant, 55-56. Civilian instr. elec. systs, Dallas Aviation Sch, 39-46; res. consult, McCarty Advert. Agency, 57-58; independent consult, Drake Res, 58- Mem, Nat. Mkt. Theory Seminar, 60-65. Mkt. Asn. Marketing research and management; advertising promotion. Publ: Co-auth, Marketing research, International, 69. Address: Dept. of Marketing, School of Business Administration, Southern Methodist University, Dallas, Tex. 75222.

DRAKE, DR. JOHN DONALD, b. Englewood, N.J, Sept. 14, 28; m. 52; c. 3. PSYCHOLOGY. B.Sc, Rutgers, 51; M.A, Fordham, 53; Ph.D, Western Reserve, 56. Counsr. PSYCHOL, Cleveland Col, Western Reserve, 53-54, dir. counseling center, 54-55; psychologist, gen. chem. div, Allied Chem. Corp, 55-57, dir. mgt. develop, 57-60; assoc. dir. psychol. serv, Clark, Channell, Inc, 60-61, dir, 61-66; gen. mgr, Hackemann & Assocs. Inc, 66-67; PRES, DRAKE-BEAM ASSOCS, 67- Lectr, mgt. inst, N.Y. Univ, 61. Cert. in indust. psychol, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn; Personnel & Guid. Asn. Management development; selection and evaluation of personnel; organization planning; educational and vocational counseling; test construction. Address: 188 Spruce St, Midland Park, N.J. 07432.

DRAKE, PROF. JOSEPH T(URPIN), b. Natchez, Miss, Oct. 10, 11; m. 46; c. 2. SOCIOLOGY. B.S, Davidson Col, 34; M.A, North Carolina, 39, fel, 50, Ph.D.(sociol), 51. Instr. SOCIOL, Tennessee, 39-40, 46-48, asst. prof, 50-53, assoc. prof, 53-57; PROF, DAVIDSON COL, 57- Pop. Coun. res. grant, Michigan, 65-66. Summers, Nat. Sci. Found. fel. anthrop, Colorado, 62, vis. prof, Miami (Fla), 66 & Michigan, 67. Consult, Tenn. Coun. Human Rels, 55-56. U.S.A, 40-46, Maj. Fel. Sociol. Asn; Pop. Asn. Demography; gerontology; Negro-white relations. Publ: The aged in American society. Address: P.O. Box 543, Davidson, N.C. 28036.

DRAKE, DR. LEWIS E(THELBERT), Psychol, see 10th ed, Phys. & Biol. Vols. Latest known address: Eastern Ave, Essex, Mass. 02112.

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DRAKE, DR. RALEIGH M(OSELEY), b. Odell, Nebr, Jan. 17, 02; m. 25, 66; c. 3. PSYCHOLOGY. B.B.A, Boston, 26, A.M, 30; Ph.D.(psychol), London, 31. Asst, Boston, 27; assoc. prof. PSYCHOL, Wesleyan Col.(Ga), 31-41; prof. & head dept, Mary Washington Col, Virginia, 41-47; PROF, KENT STATE, 47-, head dept, 47-61. Fel, Iowa, 38. Psychol. Asn; Soc. Psychol. Study Social Issues. Psychology of music; personality; social psychology. Publ: Outline of abnormal psychology; Drake tests of musical aptitude; Student-teacher aids in psychology. Address: Dept. of Psychology, Kent State University, Kent, Ohio 44240.

DRAKE, PROF. RICHARD BRYANT, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DRAKE, PROF. ST. CLAIR, b. Suffolk, Va, Jan. 2, 11; m. 42; c. 2. SOCIOLOGY, SOCIAL ANTHROPOLOGY. B.Sc, Hampton Inst, 31; Rosenwald fel, Chicago, 37-38, Walgreen fel, 46-47, Ph.D.(soc. anthrop), 54. Instr. soc. anthrop, Dillard, 35-37, asst. prof, 41-42; asst. prof. SOCIOL. & ANTHROP, ROOSEVELT, 46-48, assoc. prof, 48-54, PROF, 54- Vis. prof, Liberia, 54; Ford Found. fel. African studies, W.Africa, 54-55; head dept. sociol, Ghana, 58-61. Consult, African Area Training Cmt, Ford Found, 56-58; Ghana Peace Corps Training Prog, 61, 62 & 64. State Dept. rep, World Festival Negro Arts, Dakar, Senegal, Apr, 66. U.S. Merchant Marine, 43-45. African Studies Asn; fel. Anthrop. Asn; Soc. African Culture. Comparative study of race relations and social stratification; sociology of politics and urbanization in Africa. Publ: Co-auth, Black metropolis, Harper, 62; auth, Race relations in a time of rapid social change, Nat. Fedn. Settlements, 66; Social problems and social change in contemporary Africa, In: The United States and Africa, Praeger, 63. Address: Dept. of Sociology & Anthropology, Roosevelt University, 430 S. Michigan Ave, Chicago, Ill. 60605.

DRAKE, DR. WILLIAM DEPUE, b. Evanston, Ill, Apr. 13, 36; m. 64; c. 4. URBAN & REGIONAL PLANNING, OPERATIONS RESEARCH. B.S.E, Michigan, 59, M.B.A, 60, Ford Found. grant, 60-62, Ph.D.(opers. res), 64. Teaching fel. opers. res, MICHIGAN, 58-62, lectr, 62-63, assoc. res. engr. comput. & opers. res, 63-65, asst. prof. regional planning, 66-67, ASSOC. PROF. URBAN & REGIONAL PLANNING & PROG. CHMN, 67- Mem. bd. dirs, Consumers' Union, 64-; dep. exec. secy, President's Cmn. Tech, Automation & Progress Econ, 65-66; bd. trustees, Community Systs. Found, 66-: Independent Study Bd, 67-68. AAAS; Opers. Res. Soc. Am; Nat. Soc. Prfnl. Eng; Inst. Mgt. Sci; Inst. Indust. Eng. Application of technology towards the solution of unmet public needs; use of mathematical modelling in urban and regional planning and analysis. Publ: The design and implementation of a competitive bidding strategy, Univ. Michigan, 64; co-auth, Technology and the American Economy, 66 & Regional effects of government procurement and related policies, 67, Govt. Printing Off. Address: 1321 Brooklyn, Ann Arbor, Mich. 48104.

DRAKEFORD, PROF. JOHN WILLIAM, b. Sydney, Australia, Sept. 26, 14; U.S. citizen; m. 41; c. 2. PSYCHOLOGY. B.A, Sydney, 49; B.D, N.S.W. Baptist Theol. Sem, 41; M.A, Texas Christian, 58, Th.M, 60; D.R.E, Southwest. Baptist Theol. Sem, 56, Ed.D, 67. Pastor, Batlow Mission, 37; N.Auburn Baptist Church, 38-39; Kogarah Cent. Baptist Church, 40-41; Wollongong Baptist Church, 42; Haberfield Baptist Church, 45-49; youth dir, Baptist Union N.S.W, 49-54; PROF. PSYCHOL. & DIR. MARRIAGE & FAMILY COUNSELING, SOUTHWEST. BAPTIST SEM, 54- Prfnl. consult. counseling & family life, U.S. Navy, 53. Australian Army Forces, 42-46, Capt. Use of integrity therapy in a group counseling situation; the life of John Wesley and evaluation of the influence of women on his life. Publ: Psychology in search of a soul, 64 & Integrity therapy, 67, Broadman; The awesome power of the listening ear, Word Press, 67. Address: 3228 Spanish Oak, Ft. Worth, Tex. 76109.

DRAPER, DR. EDGAR, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DRAPER, PROF. JEAN ENGLER, Appl. Statist, Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

DRAPER, PROF. NORMAN R(ICHARD), Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DRAPER, DR. WILLIAM ARTHUR, b. Toronto, Ont, Sept. 27, 28; m. 53; c. 2. PSYCHOLOGY. B.A, Toronto, 51, M.A, 53; U.S. Pub. Health Serv. fel, Oregon, 59-61, Ph.D.(psychol), 61. Lectr, Acadia, 53-54; intern & clin. psychologist, Crease Clin. Psychol. Med, B.C, 54-55; clin. psychologist, Marquette, 55-56; res. asst. psychol, Oregon, 56-59; res. assoc, Yerkes Lab. Primate Biol, 61-62, U.S. Pub. Health Serv. fel, 62-63, psychobiologist, Yerkes Regional Primate Res. Center, 63-66; ASSOC. PROF. PSYCHOL, ACADIA, 66- Psychologist, Fla. Alcoholic Rehab. Clin, 62-65; res. grants, Nat. Sci. Found, 64-65, 65-66 & Nat. Res. Coun. Can, 66- AAAS; Psychol. Asn. Comparative psychology; learning; history of psychology; analysis of behaviour patterns in primates, rodents and relation to activity level. Publ: Cue dominance in oddity disc by rhesus monkeys, J. Comp. & Physiol. Psychol, 65; Free-ranging rhesus monkeys: age and sex difference in individual activity patterns, Science, 66; A behavioral study of the home cage activity of the white rat, Behaviour, 67. Address: Dept. of Psychology, Acadia University, Wolfville, N.S, Can.

DRAUGHON, DR. RALPH B(ROWN), b. Hartford, Ala, Sept. 1, 99; m. 31; c. 2. GOVERNMENT. B.S, Ala. Polytech, 22, M.S, 29; LL.D, Birmingham-South. Col, 48. Teacher & prin, high schs, Ala, 23-31; from instr. to asst. prof. hist. & govt, AUBURN, 31-37, exec. secy, 37-44, civilian coord. army & navy progs, 42-45, dir. instr, 44-47, acting pres, 47-48, pres, 48-65, EMER. PRES, 65- Dir, State Surv. Rural Tax Delinquency, Ala, 34; Surv. Farm Mortgage & Sales in Five South. States, 36. Trustee, Auburn Res. Found. Mem. eval. cmn. higher ed, South. Asn. Cols. & Sec. Schs, 42, cmn. higher insts, 43-46; pres, Asn. Ala. Cols, 45; mem. coun, Cmn. Higher Ed, 46-49; dir, Gov. Emergency Cmt. Higher Ed, 46. History of the bonded debt of the State of Alabama; research technology and the national security; history. Address: Auburn University, Auburn, Ala. 36830.

DRAYTON, DR. LESLIE E(DWARD), b. Edmonton, Alta, Mar. 1, 17; m. 45; c. 3. AGRICULTURAL ECONOMICS. B.A, Alberta, 44, M.A, 47; Ph.D, Wisconsin, 50. Res. economist, Sask. Dept. Coop. Develop, 45-48; economist & unit head, econ. div, Can. Dept. Agr, 50-62, acting chief mkt, 62-64, chief demand & mkt. potential sect, 64-66; ECONOMIST, wood prod. br, CAN. DEPT. INDUST, 66-67, ECON. ADV. OFF, 67- Can. Agr. Econ. Soc; Agr. Inst. Can; Can. Econ. Asn; Prfnl. Inst. Pub. Serv. Can. Economics of food consumption and manufacturing industries; co-operatives and credit unions; problems of agricultural marketing. Publ: Co-auth, The dairy industry in British Columbia, B.C, Dept. Agr, 66; Production and storage facilities for frozen fruits and vegetables; Determination of consumer preferences. Address: Box 95, R.R. 4, Ottawa, Ont, Can.

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DREBUS, DR. RICHARD W(ILLIAM), Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

DRECHSLER, DR. ROBERT J(OSEPH), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

DREEBEN, DR. ROBERT, b. New York, N.Y, Dec. 18, 30; div; c. 3. SOCIOLOGY. A.B, Oberlin Col, 52; M.A.T, Harvard, 54, Ph.D.(sociol), 62; A.M, Columbia, 54. Res. asst. ed, Harvard, 56-60, res. assoc, 60-68, instr, 57-62, lectr, 62-63, sociol, 63-65, asst. prof. ed, 63-68, sociol, 65-68, Harvard Center Res. & Develop. grant, 65-68; ASSOC. PROF. ED, CHICAGO, 68- Sociol. Asn; Polit. Sci. Asn. Impact of social structure on personality change; political socialization; comparative organizational structure; sociology of occupations. Publ: On what is learned in school, Addison-Wesley, 68; The contribution of schooling to the learning of norms, Harvard Ed. Rev, 67; Big city dropouts: a review essay, Sch. Rev, 68. Address: 5835 Kimbark Ave, Chicago, Ill. 60637.

DREESE, DR. MITCHELL, b. Harrisburg, Pa, Jan. 28, 01; m. 25; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Columbia, 26, A.M, 27, Ph.D.(personnel psychol), 29. Dir. personnel, Grinnell Col, 29-31; asst. prof. ed. psychol, George Washington, 31-33, assoc. prof, 33-38, prof, 38-61, exec. officer dept, 34-39, dean summer sessions, 39-51, col. gen. studies, 50-57, off. pres, 57-61, dir. vet. ed, 45-49; prof. ED, SHIPPENSBURG STATE COL, 61-66, EMER. PROF, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F,

42-45, Maj. Fel. Psychol. Asn; Personnel & Guid. Asn. Military psychology; counseling and guidance. Publ: How to get the job; Military guidance in secondary schools; Helping youth face the facts of military life. Address: R.D. 1, Millerstown, Pa. 17062.

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DREIER, THEODORE, Math, Eng, see 11th ed, Phys. & Biol. Vols.

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DREIKURS, PROF. RUDOLF, b. Vienna, Austria, Feb. 8, 97; nat; m. 43; c. 2. PSYCHIATRY. M.D, Vienna, 23. Intern & res, Neuro-Psychiat. Inst, Vienna, 23-28; practicing psychiatrist, 27-37; intern psychiat, Michael Reese Hosp, Chicago, 37-38; PRACTICING PSYCHIATRIST, 39-; PROF. PSYCHIAT, CHICAGO MED. SCH, 42- Dir. Child Guid. Clin. & Clin. Alcoholics, Vienna, 25-36; psychiat. consult, Hull House, Chicago, 40-43; founder, Community Child Guid. Centers, Chicago; vis. prof, Rio de Janeiro, 46; Northwestern, 47-51; Indiana, 51-54; Roosevelt, 54-56; Oregon, 57-61; Loyola, 59-61; Southern Illinois, 64-66; Bar-Ilan Univ, Israel, 65-; Tex. Tech. Col, 66-; Illinois, 67- Dir, Alfred Adler Inst. Past ed, Am. Jour. Individual Psychol. Civilian with War Relocation Authority. Fel. Psychiat. Asn; Soc. Group Psychother. & Psychodrama (pres, 53); Humanist Asn. (v.pres, 50-57); Acad. Psychother.(v.pres, 59-60); Soc. Adlerian Psychol. (pres, 54). Adlerian psychology; psychodynamics of personality; child guidance psychotherapy; human relationships; group psychotherapy. Publ: The challenge of marriage, Duell, 46; Psychology in the classroom, Harper, 57; Children: the challenge with Vicki Soltz, Meredith, 66. Address: 6 N. Michigan Ave, Room 510, Chicago, Ill. 60602.

DREIS, DR. THELMA A(GNES), b. St. Cloud, Minn, May 11, 01. SOCIAL PSYCHOLOGY. B.S, Minnesota, 23, A.M, 30; Yale, 30-34; Ph.D, American Univ, 50. Teacher, pub. schs, Minn. & Iowa, 23-25; C.Z, 26-27; Coleraine Jr. Col, 27-29; asst, inst. human rels, Yale, 30-36; assoc. economist, bur. home econ, U.S. Dept. Agr, 36-37, Fed. Surplus Commodities Corp, 38-41; admin. officer nutrit. progs, Fed. Security Agency, 41-43; U.S. Dept. Agr, 43-53, nutrit. prog. officer, agr. res. serv, 53-62, eval. specialist, int. agr. develop. serv, 63-66; CONF. DESK OFFICER, SOC. INT. DEVELOP, 67- Assoc. economist, U.S. Bur. Census of Unemploy, 37-38. AAAS; Psychol. Asn; Soc. Appl. Anthrop; Soc. Int. Develop; Adult Ed. Asn. Retroactive inhibition; reading disabilities; family income and expenditures; food habits; evaluation methods. Address: Society for International Development, Washington, D.C. 20036.

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DRESCH, DR. F(RANCIS) W(ILLIAM), Math. Statist, see 11th ed, Phys. & Biol. Vols.

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DRESSEL, DR. PAUL L(EROY), Math, Statist, see 11th ed, Phys. & Biol. Vols.

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DREWES, DR. WOLFRAM U(LRICH), Geog, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DREWRY, DR. LYMAN AUBREY, JR, b. Richmond, Va, Feb. 25, 34. ECONOMICS. B.S, Virginia, 54, M.A, 56, Ph.D.(econ), 60. Instr. statist. Virginia, 55-57; econ, N.C. State Col, 57-58; asst. prof, Queens Col.(N.C), 58-60; Fulbright lectr. econ. statist, Ceylon, 60-61; asst. prof. econ, GEORGIA, 61-63, ASSOC. PROF, 63-66, FINANCE, 66- Econ. Asn; Asn. Ed. Int. Bus. International trade and finance. Publ: Auth, Georgia's foreign trade, 64 & co-ed, Money, the market and the state, 68, Univ. Georgia; auth, Personal incomes in Georgia, Ga. Bus, 64. Address: Dept. of Finance. University of Georgia, Athens, Ga. 30602.

DREWS, PROF. ELIZABETH MONROE, b. McMinnville, Ore; m; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Oregon, 38, M.S, 40; Ph.D, Michigan, 54. Teacher, pub. schs, Ore. & China, 38-42; psychologist & psychotherapist, psychol. clin, Michigan, 44-48; dir. psychol. serv, pub. schs, Mich, 48-57; assoc. prof. ed. psychol, Buffalo, 56-57; ed, Mich. State, 57-63, PROF. ED. PSYCHOL, 63-66; PORTLAND STATE COL, 66- U.S. Dept. Health, Ed. & Welfare res. grants, 59-61, 63-64; Nat. Inst. Ment. Health sr. res. fel, 63. Mem. Conant cmt, Nat. Ed. Asn, 58-61; White House Conf. Children & Youth, 60; President's Cmn. Status of Women, 62. Mem, Coun. Except. Children. Fel. AAAS; fel. Psychol. Asn. Grouping and study of nonintellectual factors; changing aspirations of the gifted; identification, education and careers of gifted girls; creative innovations in education; style-of-life films. Publ: Self-actualization: a new focus for education, In: Learning and mental health in the school, Asn. Supv. & Curriculum Develop, 66; Dialogue: Elizabeth Drews and Abraham Maslow, In: Guidance & utilization of new media, Nat. Defense Ed. Act; ed, Guidance for the academically talented student. Address: 2417 S.W. Montgomery Dr, Portland, Ore. 97201.

DREWS, PROF. ROBIN A(RTHUR), b. Coos Bay, Ore, May 6, 13; m. 38; c. 1. ANTHROPOLOGY. B.A, Oregon, 38; M.A, Michigan, 47, Chinese scholar, 46-47, Ph.D.(Far East. studies), 52. Prof. social sci, Ryukyus, 52-53; asst. prof, Mich. State, 53-58, assoc. prof, 58-65; PROF. SOCIOL. & ANTHROP. & CHMN. DEPT, LEWIS & CLARK COL, 65- U.S.N.R, 43-, Comdr. Anthrop Asn; Asn. Asian Studies; Am. Inst. Pac. Rels. Cultural history of Far East-

ern peoples; cultures and peoples of the Pacific Islands. Publ: Pond cultivation of food fish in China and Japan; When carp was king, Mich. Hist; Cultivation of foodfish in Southeast Asia. Address: 2417 S.W. Montgomery Dr, Portland, Ore. 97201.

DREYER, DR. ALBERT S(TANLEY), b. Brooklyn, N.Y, July 16, 25; m. 47, 60; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 49; M.A, Minnesota, 51, fel, 51-53, Ph.D.(child welfare), 54. Res. assoc. parent-child rel, Merrill-Palmer Sch, 53-61; mem. faculty, Eliot-Pearson Sch, Tufts, 61-64; res. psychologist, child res. coun, dept. pediat, Colorado, 64-66; ASSOC. PROF. CHILD DEVELOP. & FAMILY RELS, CONNECTICUT, 66- Lectr, Wayne State, 56-58; consult, Inst. Ed. Develop, New York, 66- U.S.A.A.F, 43-46. Psychol. Asn; Soc. Res. Child Develop; Nat. Coun. Family Rels. Parent-child relations; personality and social development; motivation; socialization processes affecting late motivational and cognitive functioning. Publ: Aspiration behavior as influenced by expectation and group comparison, Human Rels, 7:175-190; co-auth, Toward a theory of influence techniques, Merrill-Palmer Quart, 1:4-17 & Parental values, parental control and creativity in young children, J. Marriage & Family Living, 28: 83-88. Address: Dept. of Child Development, University of Connecticut, Storrs, Conn. 06268.

DREYER, PROF. AVON M, b. Hollandale, Wis, June 7, 20; m. 47; c. 4. ECONOMICS. B.A, Wisconsin, 47, M.A, 48, Ph.D, 53. Prof. econ, South Dakota, 53-63, chmn, M.B.A, prog, 58-63; PROF. ECON, CENTRAL MICHIGAN, 63- U.S.A, 42-45, Sgt. Econ. Asn. Taxation. Publ: South Dakota state tax and license revenue; Tax exempt real property in South Dakota; Taxation of alcoholic beverages in South Dakota. Address: Dept. of Economics, Central Michigan University, Mt. Pleasant, Mich. 48858.

DREYER, DR. EDWARD C, b. Long Beach, Calif, May 28, 37; m. 60; c. 2. POLITICAL SCIENCE. B.A, Redlands, 59; Haynes Found. scholar, North Carolina, Chapel Hill, 59, Behav. Sci. fel, 60, Falk fel, 61, univ. fel, 63, Ph.D.(polit. sci), 68. ASST. PROF. POLIT. SCI, San Diego State Col, 63-68; MISSOURI, ST. LOUIS, 68- Vis. asst. prof, North Carolina, Chapel Hill, summer 68. Polit. Sci. Asn. Comparative politics; political opinion and behavior; public policy. Publ: Co-auth, Political opinion and electoral behavior, Wadsworth, 67; auth, Political party use of radio and television, J. Broadcasting, 64. Address: Dept. of Political Science, University of Missouri, St. Louis, Mo. 63121.

DREZGA, PROF. TIHOMIL, Int. Law, see 10th ed, Soc. & Behav. Vols.

DRICKEY, PROF. JAMES MYRLE, b. Spencer, Nebr, Nov. 20, 24. PSYCHOLOGY. A.B, Denver, 49, M.A, 50, Ph.D, 56. Counsr, Fitzsimons Army Hosp, Denver, Colo, 50-53; instr. ed, Mankato State Col, 53-54; counsr, personnel servs, Denver, 54-56; assoc. prof. psychol, SOUTHEAST MO. STATE COL, 56-61, PROF. PSYCHOL. & DIR. GRAD. STUDIES, 61- U.S.A, 43-46, Sgt. Psychol. Asn. Publ: Interview study of the counseling responsibilities of protestant ministers, Iliff Rev. Address: Dept. of Education & Psychology, Southeast Missouri State College, Cape Girardeau, Mo. 63701.

DRIEDGER, DR. LEO, b. Saskatoon, Sask, June 27, 28; m. 56; c. 2. SOCIOLOGY. A.B, Bethel Col.(Kans), 54; M.A, Chicago, 55; B.D, Bethany Theol. Sem, 60; Ph.D.(sociol), Mich. State, 64. Lectr. SOCIOL, Central Michigan, 63-64; ASST. PROF, MANITOBA. 64- Am. Sociol. Asn; Can. Sociol. & Anthrop. Asn. Social deviance; sociology of religion; urban sociology. Publ: Co-auth, Some rural-urban differences between Manitoba high school students, Univ. Manitoba, 65. Address: Dept. of Sociology, University of Manitoba, Winnipeg, Man, Can.

DRIGGS, DR. DON F(EHRING), b. Salt Lake City, Utah, Mar. 28, 16; m. 47; c. 3. PSYCHOLOGY. A.B, Utah, 46; M.A, Temple, 48; Ph.D.(ed. psychol), North Carolina, 52; Tennessee, 56-58. Asst. prof. psychol, Ala. Polytech, 51-56; fel. clin. psychol, Tennessee, 56-57; trainee, Lenwood Vet. Admin. Hosp, 57-58; coordinator psychol. serv, pub. schs, Minn, 58-62; ASSOC. PROF. SCH. PSYCHOL, FLA. STATE, 62- Psychol. consult, Mower County Ment. Health Clin, 58-62; Fed. Correctional Inst, Fla, 62-; Thomasville City Schs, Ga, Gadsden County Schs. & Leon County Schs, Fla, 63-; Ga. Dept. Voc. Rehab, 63-; Tri-County Ment. Health Clin, Ga, 63-; Crippled Children's Clin, Ga, 63-; Vet. Admin. Hosps, Lenwood, Tuskegee, Biloxi & Gulfport, 64-Dipl, Am. Bd. Exam. Prfnl. Psychol, 65. U.S.A.F, 41-47, Res, 47-, Lt. Col. Projective methods of personality evaluation; demographic study of honors college students; psycho-educational diagnosis and treatment. Publ: A survey of comprehensive examination items in APA approved doctoral programs, Fla. State Univ, 68; Studies in diagnosis of brain injury and related behavior problems of children, Childhood Ed, 64; Contributions of behavioral science to quality education, Proc. Invitational Conf. Sch. Psychol, 64. Address: Dept. of Psychology, Florida State University, Tallahassee, Fla. 32306.

DRIGGS, ORVAL TRUMAN, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DRILLIS, DR. RUDOLFS, Biomech, see 11th ed, Phys. & Biol. Vols.

DRISCOLL, DR. JAMES M(ICHAEL), b. Wilmington, Del, Jan. 15, 39; m. 61; c. 2. SOCIAL PSYCHOLOGY. B.S, Villanova, 60; M.S. & Ph.D.(psychol), Delaware, 64. Res. fel. PSYCHOL, Delaware, 60-64, res. assoc, 64-65; Dartmouth Col, 65-66; ASST. PROF, LOUISVILLE, 66- Psychol. Asn. Human decision making; small group interaction; communication. Publ: Co-auth, Effects of two sources of uncertainty in decision making, Psychol. Reports, 65: co-auth, Preference for information about an uncertain but unavoidable outcome, J. Personality & Soc. Psychol, 66; co-auth, Infrequent reward facilitates observing responses in rats, Psychonomic Sci, 67. Address: Dept. of Psychology, University of Louisville, Louisville, Ky. 40208.

DRISCOLL, DR. JEAN M(AXTED), b. Mich, July 22, 20; m. 41; c. 2. POLITICAL SCIENCE. A.B, Michigan, 41, M.A, 42; Ph.D, Northwestern, 53. Instr. POLIT. SCI, Wisconsin, Milwaukee, 47-53, 57-59; res. assoc, Northwestern, 53-56; assoc. prof, N.PARK COL, 59-66, PROF, 66- Fulbright scholar, first inst. in Chinese civilization, Taiwan, 62; vis. scholar, Northwestern, 67-68. U.S.N.R, 44-46. Polit. Sci. Asn; Asn. Asian Studies. Theory and method; state and local government and politics. Publ: Co-auth, Methodology for political scientists, perspectives for study, Am. Polit. Sci. Rev; auth, Nature of political science, Nat. Coun. Soc. Studies Yearbook, 66. Address: 8725 N. St. Louis, Skokie, Ill. 60076.

DRISCOLL, DR. LEO C, b. Boston, Mass, Oct. 22, 28; m. 58; c. 3. LOGIC, CYBERNETICS A.B, Boston Col, 52, M.A, 53; Ph.D.(philos), Fordham, 64. Engr, Raytheon Co, 58-59; mem. tech. staff, Mitre Corp, 59-67; SCIENTIST, NASA ELECTRONICS RES. CENTER, CAMBRIDGE, 67- Inst. Elec. & Electronics Eng. Operations research; systems theory; computer research; computerized tools; information sciences. Publ: Methodology of Charles Sanders Peirce, Univ. Microfilms, 64; An approach toward a real time experiment management system, Tech. Papers, Am. Inst. Aeronaut. & Astronaut, 10/65; co-auth, Heuristics for resolution of logical scheduling conflicts, Proc. Int. Conf. Oper. Res, 9/66. Address: 101 Moore Rd, Sudbury, Mass. 01776.

DRISCOLL, DR. P(ATRICK) J(OSEPH), b. Antigo, Wis, May 8, 18. PSYCHOLOGY. B.A, Wisconsin, 41, M.A, 49, Ph.D, 56. Ed. employee pub, Heil Co, Wis, 41-42; asst. ed, Allis-Chalmers Co, 45-56; consult, State Bd. Voc. Rehab, 48-51; employee counsr, S.C. JOHNSON & SON, INC, 51-58, employee counsr. & training mgr, 58-62, EMPLOYEE RELS. MGR, 62- Lectr, exten, Wisconsin, 57-61. Consult, Racine Police Dept. Personnel Practices Rev. Cmt, 67- Del, White House Conf. Aging, 60. U.S.A, 42-45, Sgt. Psychol. Asn. Adjustment of prison inmates to prison environment; factor determining adjustment of tuberculosis patient to the sanitarium; employee research on attitudes. Publ: Factors related to the adjustment of prison inmates, J. Abnorm. & Soc. Psychol; Salesmen helped by bringing out jobs critical incidents, Personnel J. Address: 1924 12th St, Racine, Wis. 53403.

DRISCOLL, WILLIAM DENNIS, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DRIVER, PROF. EDWIN D, b. Gloucester, Va, Jan. 23, 25; m. 49; c. 3. SOCIOLOGY. B.A, Temple, 45; M.A, Pennsylvania, 47, Ph.D.(sociol), 56. Instr. SOCIOL, MASSACHUSETTS, 48-54, asst. prof, 54-59, assoc. prof, 59-64, PROF, 64- Fulbright prof, Nagpur, 57-58; acting dir, Seminar Am. Hist. & Culture, U.S. Ed. Found, 58; vis. prof, Smith Col, 60-61; Fulbright prof. & chmn. dept, Madras, 65-66; summers, vis. prof, Minnesota, 64, Hawaii, 66, Wisconsin, 67. Ford Found. grant, 63-65; Fulbright grant, 65-66; Danforth grant, summer, 63. Consult, State Ment. Health Res. Center, Mass, 61; Franklin Co. Pub. Hosp, Mass, 64-65. Res. award, Pop. Coun, Inc, 59-61. Sociol. Asn; Pop. Asn; Soc. Study Social Probs; Asia Soc; Asn. Asian Studies; Indian Sociol. Soc. Social and population problems; criminology; social structure of India; South Asia studies. Publ: Differential fertility in central India; Sociology and anthropology of mental illness, Univ. Massachusetts, 65; A critique of typologies in criminology, Sociol. Quart, 12/67. Address: Dept. of Sociology, University of Massachusetts, Amherst, Mass. 01003.

DRIVER, DR. HAROLD E(DSON), b. Berkeley, Calif, Nov. 17, 07; m. 50. ANTHROPOLOGY. A.B, California, 30, M.A, 34, Ph.D.(anthrop), 36; Chicago, 30; Columbia, 31. Res. fel, California, 36-37, res. assoc. ANTHROP, 38-39, 48-49; Soc. Sci. Res. Coun. fel, Chicago, 37-38; asst. prof, INDIANA, 49-53, assoc. prof, 53-58, PROF, 58-, ACT. CHMN. DEPT, 55- Vis. prof, Hawaii, 67; California, Davis, 67-68. Consult. & expert witness, U.S. Dept. Justice, 53-55. AAAS; Anthrop. Asn; Ethnol. Soc; Int. African Inst. North American Indian ethnology; anthropological statistics. Publ: Indians of North America; co-auth, Ethnography and acculturation of the Chichimeca-Jonaz of northeast Mexico, Indiana Univ, 63; auth, The Americas on the eve of discovery, McGraw, 64. Address: Dept. of Anghropology, Indiana University, Bloomington, Ind. 47401.

DRIVER, JOHN C(ALVIN), b. Berkeley, Calif, Sept. 16, 06. ECONOMICS. A.B, California, 28; Columbia. Asst. econ, California, 29-31; instr. bus. statist, Manhattan Col, 31-35; economist, U.S. Dept. Treas, 35-40, 41-43; Off. Prod. Mgt, 40-41; asst. chief res. serv, Vet. Admin, 45-48; ASST. CHIEF STATISTICIAN, U.S. DEFENSE DEPT, 48- U.S.A, 43-45, Lt. Col. Public finance; statistics; money and banking. Address: 10 Burning Tree Court, Bethesda, Md. 20034.

DRIVER, DR. MICHAEL J, b. Salem, Mass, May 4, 36. PSYCHOLOGY, POLITICAL SCIENCE. A.B, Fordham, 58; fel, Princeton, 58-59, M.A, 60, Ph.D.(psychol), 62. Res. asst. psychol, Princeton, 59-62; Nat. Inst. Ment. Health fel, Ed. Testing Serv, 62-63; dir. mil. occup. speciality test develop, U.S. Army Adj. Gen. Sch, 64-65; Nat. Sci. Found. res. grant, Purdue, 65, asst. prof. psychol. & admin. sci, 65-67; ASSOC. PROF. MGT. & BEHAV. SCI, SOUTHERN CALIFORNIA, 68- Res. asst, Northwestern, 60; U.S. Arms Control & Disarmament Agency contract, 66-67; Adv. Res. Projs. Agency subcontract, 66-68; Nat. Insts. Health res. grant, 66-69. U.S.A.R, 64-65, 1st Lt. AAAS; Psychol. Asn. Cognitive styles and motives; affect theory; developmental personality; individual and group information processing; social perception; cooperation and aggression; group organization. Publ: Co-auth, Human information processing, Holt, 67; Conceptual structure, information search and information utilization, J. Personality & Soc. Psychol, 65; Components of Response rate in complex decision making, J. Exp. Soc. Psychol, 67. Address: Dept. of Management, University of Southern California, Los Angeles, Calif. 90007.

DROBAC, DR. DONILO, b. Milwaukee, Wis, May 19, 20; m; c. 4. SOCIOLOGY. Ph.D.(sociol), Minnesota, 66. Instr. SOCIOL, Minnesota, 61-66; asst. prof, CARROLL COL.(WIS), 66-67, ASSOC. PROF, 67- Founder, Donilo Res. Assocs, Wis, 66. U.S.A.A.F, 41-42. Sociol. Asn; Soc. Sci. Study Relig. Union member attitudes, opinions and beliefs. Address: Dept. of Sociology, Carroll College, Waukesha, Wis. 53186.

DRONBERGER, DR. ILSE E, b. Germany, Feb. 18, 21; m. 54; c. 3. POLITICAL SCIENCE, SOCIOLOGY. A.B, Anderson Col, 43; scholar, Butler, 43-44, A.M, 44; fel, Chicago, 44-46, Ph.D, 50; Edward Hilliman hon. travel fel, Europe, 48-50; London, 48-49. Asst. polit. sci, Chicago, 44-45; ed. asst, Am. J. Sociol, 45-46; asst. prof, Lindenwood Col, 47-48; analyst, cmt. com-

munications, State Dept. Proj, 50-51; asst. prof. SOCIOL. & SOC. WORK, Ohio Wesleyan, 50-51; instr, Ill. Inst. Tech, 52-54; ASSOC. PROF, Valparaiso, 55-64; WAGNER COL, 64- Sociol. Asn. Political sociology; political theory; sociological theory. Address: Dept. of Sociology, Wagner College, Grymes Hill, Staten Island, N.Y. 10301.

DROTNING, DR. JOHN EVAN, b. New York, N.Y, Jan. 20, 32; m. 59; c. 3. INDUSTRIAL RELATIONS, ORGANIZATIONAL BEHAVIOR. A.B, Rochester, 58; M.B.A, Chicago, 59, Ph.D.(bus), 65. Asst. prof. indust. rels, State Univ. N.Y. Buffalo, 64-66, ASSOC. PROF, 66; indust. mgt, Purdue, 67; INDUST. RELS. & ORGN, STATE UNIV. N.Y. BUFFALO, 67-, grad. cmt. res. grants, 66-67 & sensitivity training grant, 68. Summer fels, Nat. Labor Rels. Bd, 65 & State Univ. N.Y. Res. Found, 66 & 67. U.S.A, 54-56. Indust. Rels. Res. Asn. Impact of public policy with respect to labor and organizational behavior, specifically sensitivity training and its relevance to business organizations. Publ: The union representation election: a study in persuasion, Monthly Labor Rev, 8/65; NLRB remedies for election misconduct: an analysis of election outcomes and their determinants, J. Bus, 4/67; Sensitivity training in business organizations, Mgt. Personnel Quart, summer 69. Address: Dept. of Industrial Relations, Crosby Hall, State University of New York at Buffalo, Buffalo, N.Y. 14214.

DROUGHT, DR. NEAL E(DWARD), b. Milwaukee, Wis, Dec. 13, 10; m. 34; c. 3. MANAGEMENT SCIENCE, INDUSTRIAL RELATIONS. B.A. & M.A, Wisconsin, 34, Ph.D.(psychol),37. Res. assoc, Ohio State, 37-38; Chicago, 38-41; instr. psychol. & asst. to pres, Hamilton Col, 41-43; mgr. personnel policy & res, RCA Victor, N.J, 43-47, personnel mgr, 47-51, mgr. personnel div, tube dept, 51-54; dir. personnel, F.J. Stokes Corp, Pa, 54-64; ASST. PROF. psychol, Rider Col, 65; MGT, TEMPLE, 65- Acad. Mgt; Indust. Rels. Res. Asn; Psychol. Asn. Publ: Co-auth, Did they succeed in college, Harper, 42; auth, The operations committee: an experience in group dynamics, Personnel Psychol, 67; The anatomy of a fourteen year organizing drive, Econ. & Bus. Bull, 67. Address: Temple University, School of Business Administration, Philadelphia, Pa. 19122.

DROZE, DR. WILMON HENRY, Recent Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DRUCKER, DR. ARTHUR J(AMES), b. Rochester, N.Y, Feb. 3, 16; m. 40; c. 1. PSYCHOLOGY. B.S, Rochester, 42; M.S, Purdue, 47, Ph.D.(psychol), 49. Asst. prof. statist, tests & measurements, Purdue, 47-51, voc. counsr, 47-48, asst. dir, div. ed. reference, 48-51; res. psychologist, U.S. Army Personnel Res. Off, 51-64, ASST. DIR. OPERS, U.S. ARMY BEHAV. SCI. RES. LAB, OFF. CHIEF RES. & DEVELOP, 64- U.S.A, 43-46. Fel. Psychol. Asn; Int. Asn. Appl. Psychol. Leadership prediction; personality testing. Publ: Relationships between citizenship attitudes, parental education and other variables; Predicting leadership ratings in the United States Army, Ed. & Psychol. Measurement; co-auth, Selection tests—dubious aid in driver licensing, Hwy. Res. Record, 63. Address: 8304 Hartford Ave, Silver Spring, Md. 20910.

DRUCKER, DR. MELVIN B(RUCE), b. Philadelphia, Pa, May 27, 27; m. 58. PSYCHOLOGY. B.S, Western Reserve, 50; M.A, Ohio, 52; Ph.D, Peabody Col, 56. Intern psychologist, S.C. Ment. Health Cmn, 55-56; psychologist, Fulton County Child Guid. Clin. & Health Dept, Ga, 56-58; chief ment. health eval. & res, community ment. health serv, GA. DEPT. PUB. HEALTH, 58-61, chief psychologists, 61-65; CLIN. PSYCHOLOGIST, CHAPLAINCY TRAINING PROJ, GEORGIAN CLIN, 65- Instr, South Carolina, 55-56; vis. lectr, Ga. State Col, 65- Mem, N.Am. Asn. Alcoholism Progs. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn. Records and statistical reporting of community mental health programs; epidemiological studies in mental health; evaluation of training programs; problems of alcohol addiction and services to the alcoholic. Publ: Co-auth, Pilot project for clinical training of clergymen in the field of alcoholism, Ga. Dept. Pub. Health & U.S. Dept. Health, Ed. & Welfare, 7/67. Address: Georgian Clinic, 1260 Briarcliff Rd, N.E, Atlanta, Ga. 30306.

DRUCKER, PROF. MIRIAM KOONTZ, b. Mechanicsburg, Pa, Feb. 3, 25; m. 57. PSYCHOLOGY. A.B, Dickinson Col, 47; M.A, Emory, 48; Ph.D, Peabody Col, 55. Counsr. PSYCHOL, Millsaps Col, 49-51; instr, Monticello Col, 51-52; asst. prof, AGNES SCOTT COL, 55-58, assoc. prof, 58-64, PROF. & CHMN. DEPT, 65- Psychol. Asn. Address: Dept. of Psychology, Agnes Scott College, Decatur, Ga. 30030.

DRUCKER, PROF. PETER F, b. Vienna, Austria, Nov. 19, 09; nat; m. 37; c. 4. POLITICAL SCIENCE. LL.D, Frankfurt, 31; hon.D.C.S, Pace, 59; hon. Ph.D, Nihon Univ, Tokyo, 62; hon. D.C.L, Wayne State, 62, Scranton, 62. PROF. philos. & polit, Bennington Col, 42-49, MGT, GRAD. BUS. ADMIN, N.Y. UNIV, 50- Fel. AAAS; Soc. Hist. Tech.(pres, 65-66); fel. Acad. Mgt; hon. fel, Brit. Inst. Mgt; fel. Int. Acad. Mgt. Methodology; institutional history. Publ: Landmarks of tomorrow; Managing for results; The effective executive. Address: 138 N. Mountain Ave, Montclair, N.J. 07042.

DRUM, PROF. WILL, b. Danzig, Apr. 9, 98; nat; m. 53; c. 2. SOCIOLOGY. J.D, Goettingen, 22; M.A, Washington (Seattle), 42. Dir. & adminstr, Juvenile Court, Ore, 44-52; asst. prof. soc. work, OREGON, 53-54, ASSOC. PROF. SOCIOL, 54- Sociol. Asn; Asn. Marriage Counsr; Acad. Cert. Soc. Workers. Human relations; marriage counseling. Publ: How to discover behavior problems in the classroom; Teaching family life education on television, Marriage & Family Living. Address: 321 Mayer Bldg, Portland, Ore. 97205.

DRUMMOND, PROF. BOYCE A(LEXANDER), JR, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DRUMMOND, DEAN DONALD F(RANCIS), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DRUMMOND, DR. IAN MACDONALD, b. Vancouver, B.C, June 4, 33. ECONOMICS, ECONOMIC HISTORY. B.A, British Columbia, 54; Woodrow Wilson fel, Toronto, 54-55, M.A, 55; Moses & Swift fels, Yale, 55-57, M.A, 56, Ph.D.(econ), 59; Imp. Order Daughters of the Empire overseas scholar, 57-58. Instr. ECON, Yale, 58-60; lectr, TORONTO, 60-62, asst. prof, 62-65, ASSOC. PROF, 65- Vis. asst. prof, Princeton, 65. Tech. officer, econ. & res. br, Can. Dept. Labour, 61; staff mem, Royal Cmn. Taxation, 63-64. Consult, Orgn. Econ. Coop. Develop, 62; Develop. Adv. Serv, Harvard, 62-66. Managing Ed, Can. J. Econ. & Polit. Sci, 66-67, Can. J. Econ, 67-; ed, Can. Forum, 62- R.C.A.F.R, 51-54, Res, 54-, Flying Officer. Econ. Asn; Econ. Hist. Asn; Can. Polit. Sci. Asn; Brit. Econ. Hist. Soc; Royal Econ. Soc. Canadian financial history; European economic development; Russian economic organization; theory of economic planning. Publ: The Canadian economy: structure and development, Irwin, 66; Canadian insurance companies and the capital market, 1890-1914, Can. J. Econ. & Polit. Sci; Canadian trade with the communist countries of Eastern Europe, Private Planning Asn. Can, 66. Address: Dept. of Political Economy, University of Toronto, Toronto 5, Ont, Can.

DRUMMOND, PROF. ROBERT J(OHN), b. Newark, N.J, Mar. 30, 29. EDUCATIONAL PSYCHOLOGY. A.B, Waynesburg Col, 49; A.M, Columbia, 52 & 56, Ed.D.(psychol), 59. Proj. asst. psychol, Columbia, 56-57, asst, 57-58; asst. prof, Waynesburg Col, 58-59, assoc. prof, 59-62, chmn. dept, 60-62, prof. psychol. & ed, 62-66; vis. prof. ed. res, Pittsburgh, 66-67; PROF. PSYCHOL. & ED. & CHMN. DEPT, WAYNESBURG COL, 67- Vis. prof, Maine, summer, 67. Psychol. Asn; Personnel & Guid. Asn; Nat. Ed. Asn; Ed. Res. Asn; Coun. Measurement in Ed. Motivation; teacher selection; test construction; attitude measurement of college students; evaluation; personality measurement; identification theory. Publ: Co-auth, Educational interest inventory. Address: Dept. of Psychology, Waynesburg College, Waynesburg, Pa. 15370.

DRUMMOND, DR. R(OBERT) NORMAN, b. Montreal, Que, Feb. 17, 27; m. 53; c. 4. GEOGRAPHY, CARTOGRAPHY. B.Sc, McGill, 49, M.Sc, 50, Ph.D. (glacial geomorphology), 65. Field dir, sub-Arctic Res. Lab, McGILL, 54-57, asst. prof. GEOG, 57-64, ASSOC. PROF, 64-, dir. geog. summer sch, 66, 68. Vis. assoc. prof, California, Berkeley, 67. Consult, Rand Corp, 56-59. Am. Soc. Photogram; Arctic Inst. N.Am; Can. Asn. Geog; Can. Inst. Surv. Interpretation of sub-Arctic vegetation, glacial land forms and terrain analysis in Arctic and sub-Arctic areas from aerial photographs. Publ: Co-auth, Glacial features of Ungava from air photographs, Trans. Royal Soc. Can. & Map of the Physiographic regions of Ungava-Labrador, Can. Geogr. Address: Dept. of Geography, McGill University, Montreal, Que, Can.

DRUMMOND, PROF. ROBERT R(OLAND), b. Martinsville, Ill, Dec. 12, 16; m. 53; c. 1. GEOGRAPHY. B.S, Ind. State Col, 39; M.S, Illinois, 40; Ph.D. (geog), Northwestern, 53. Asst. prof. GEOG, INDIANA STATE, 46-56, assoc. prof, 54-57; PROF, 57- Res. assoc, Am. Geog. Soc, 52-54; Fulbright teaching fel, Mandalay, 57-58; sr. terrain specialist, proj. duty, Denver, 64-66. U.S.A, 41-46, Maj. Asn. Am. Geog; Geog. Soc; Coun. Geog. Ed. Urban geography; physiography; Southeast Asia. Publ: Co-auth, Visibility in some forest stands in the United States, Qm. Res. & Develop. Command, 56. Address: RR 1, West Terre Haute, Ind. 47885.

DRURY, DR. HORACE B(OOKWALTER), Econ, see 10th ed, Soc. & Behav. Vols.

DRURY, PROF. J(AMES) W(ESTBROOK), b. East St. Louis, Ill, Feb. 22, 19; m. 43; c. 3. POLITICAL SCIENCE. A.B, Illinois, 39, A.M, 40; Ph.D, Princeton, 48. Instr. polit, Princeton, 46-47; asst. prof, KANSAS, 47-53, assoc. prof, 53-61, PROF. POLIT. SCI, 61-, RES. ASSOC, GOVT. RES. CENTER, 48- Fulbright prof, Tohuku, Japan, 54-55; prof-adv, Southern California for Govt. Pakistan, 61-62. Consult, res. dept, Legis. Coun, Kansas. U.S.A, 41-46, Res, 46-, Col. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; municipal and state government. Publ: Township government in Kansas; Government of Kansas. Address: Dept. of Political Science, University of Kansas, 509 Blake, Lawrence, Kans. 66044.

DRUSHAL, PRES. J(OHN) GARBER, b. Lost Creek, Ky, July 16, 12; m. 38; c. 3. SPEECH. A.B, Ashland Col, 35; M.A, Ohio State 38, Ph.D.(speech, pub. address), 51. Instr. rhetoric, Ashland Col, 36-37; Missouri, Columbia, 38-39; from instr. to asst. prof, Capital Univ, 39-46; from asst. prof. to assoc. prof, COL. WOOSTER, 46-54, prof. rhetoric & polit. sci, 54-63, dean col, 63-66, dean & v.pres. acad. affairs, 66-67, acting pres, 67-68, PRES, 68- Consult, State Univ. N.Y, 62-64; consult-examiner, N.Cent. Asn. Cols. & Sec. Schs, 65- Trustee, Ashland Col, 40-42, 47-50, 56- U.S.N.R, 42-45, Lt. Speech Asn. Am; Am. Speech & Hearing Asn; Acad. Polit. Sci. Violence and extra legal force in relation to constitutional development. Publ: Study guide on student congress procedure, Edwards, 56; co-auth, Independent study programs in the United States, Columbia, 57 & Independent study programs, J. Higher Ed, 11/54. Address: College of Wooster, Wooster, Ohio 44691.

DRYSDALE, DR. JOHN P(HILIP), b. Houston, Tex. Dec. 11, 37; m. 62. SOCIOLOGY. B.A, Millsaps Col, 59; M.A, La. State, 62, Ph.D.(sociol), 66. Acting asst. prof. SOCIOL, Southern Mississippi, 62-63; instr, KENTUCKY, 65-66, ASST. PROF, 66- Sociol. Asn. Sociological theory; political sociology. Address: Dept. of Sociology, University of Kentucky, Lexington, Ky. 40506.

DRZEWIENIECKI, DR. WALTER MARIAN, European & Russian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DUA, DR. PREM S, b. Karachi, Pakistan, Feb. 20, 34. PSYCHOLOGY, SOCIOLOGY. M.A, Agra 53; Fulbright fel, Michigan, 59-60, M.A, 61; Ph.D. (counseling, psychol), Pa. State, 63. Prog. officer admin. Fulbright scholar, U.S. Ed. Found, India, 63-64; psychol. counsr. & res. consult, off. dean women, Pa. State, 64-66; ASST. PROF. ED. PSYCHOL. & STUDENT COUNSR, CALGARY, 66- Psychol. Asn; Personnel & Guid. Asn. Measurement of leadership potential; measurement of behavioral change through laboratory education. Publ: Personality characteristics differentiating leaders from non-leaders in a university setting, spring 64 & A survey of student attitudes, fall 66, Nat. Asn. Women Deans & Counsr. J. Address: Student Counseling Services, University of Calgary, Calgary, Alta, Can.

DUBEY, PROF. AKHILESH, b. Manupur, India, Jan. 7, 29. ECONOMICS, MARKETING. B.S, Bihar, 52; M.S, Okla. State, 55; Ph.D, Ohio State, 58. Teacher & prin, Rasalpura High Eng. Sch, 48-49; asst, Okla. State, 53-55; Ohio State, 55-58; asst. prof. mkt. & econ, Atlanta, 58-61; prof. ECON. & head dept, Ft. Valley State Col, 61-66, PROF, TEMPLE, 66- Reporter, 52-55; summers, fel, Seminar Far East. Econ. Probs, 58, Ford Found. faculty res. fel, 60. Econ. Asn; Mkt. Asn. International trade; trade barriers in developed and underdeveloped economies; small business; customer relation as a major factor in small business failure. Address: 338 Beverly Blvd, Upper Darby, Pa. 19082.

DUBEY, DR. SATYA D(EVA), Statist, Math, see 10th ed, Soc. & Behav. Vols.

DUBIN, DR. HARRY N(ATHAN), b. Philadelphia, Pa, July 18, 19; m. 47; c. 2. PSYCHOLOGY, EDUCATION. B.S, Temple, 48, M.A, 51, Ed.D.(spec. ed), 62. Exec. dir, Phila. Asn. Retarded Children, 52-58; dir. spec. serv. psychol. & remedial work, pub. schs, East Brunswick, N.J, 58-61; PROF. PSYCHOL. & ED, NEWARK STATE COL, 61-, CONSULT, GROUP WORK & COUNSELING, LAB. APPL. BEHAV. SCI, 62-, ed. dir. rehab. prog. juvenile delinquents, College fields, 64-66. Private practice, 62-; pres, Center Orgn. & Personal Effectiveness, Inc, 67- Consult, Supermarkets Gen. Corp, N.J, 62-67; Camp Kilmer Proj, N.J, 65-66: Sci. Resources, Inc, N.J, 65-67. U.S.A, 41-45. Psychol. Asn; fel. Asn. Ment. Deficiency. Mental retardation; organizational development and leadership training; general and higher education. Publ: Co-auth, Collegefields, from delinquency to freedom, Lab. Appl. Behav. Sci, Newark State Col, 66; auth, Some observations on the place of physical education and a health program in building a program for the mentally retarded child, Am. J. Ment. Deficiency, 4/54. Address: 9 Overhill Rd, East Brunswick, N.J. 08816.

DUBIN, DR. MARTIN DAVID, b. New York, N.Y, Aug. 7, 31; m. 53; c. 1. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, City Col. New York, 52; Columbia, 52-53; M.A, Indiana, 55, Ph.D.(govt), 60. Asst, Indiana, 53-56, assoc. govt, Calumet Center, 56-58, lectr, 58-59; vis. asst. prof. POLIT. SCI, Roosevelt, 59-60, asst. prof, 60-64, ASSOC. PROF, 64-65, faculty fel, 61-62; NORTHERN ILLINOIS, 65- Polit. Sci. Asn. International relations theory; international organizations; American foreign policy. Address: Dept. of Political Sciences, Northern Illinois University, DeKalb, Ill. 60115.

DUBIN, PROF ROBERT, b. Chicago, Ill, Mar. 19, 16; m. 37; c. 4. SOCIOLOGY. A.B, Chicago, 36, A.M, 40, Ph.D, 47. Asst. prof. indust. rel, Chicago, 47-48; assoc. prof. sociol. & mgt, Illinois, 48-52, prof, 52-54; prof. SOCIOL. & head dept, OREGON, 54-57, RES. PROF, 58- Fel, Center Adv. Study Behav. Scis, 56-57; Ford vis. prof, Wisconsin, 59-60; Fulbright res. scholar, Germany, 63-64 & Eng, 68-69; Guggenheim fel, 63-64. U.S.A, 40-46, Capt. Sociol. Asn; Indust. Rels. Res. Asn; Sociol. Res. Asn; Soc. Gen. Systs. Res. Sociological theory; organizational theory; industrial sociology. Publ: World of work, 58 & Human relations in administration, 3rd ed. 68, Prentice-Hall; Theory building, Macmillan, 68. Address: Dept. of Sociology, University of Oregon, Eugene, Ore. 97403.

DUBIN, DR. SAMUEL S(ANFORD), b. Newark, N.J, Mar. 12, 14; m. 41; c. 4. PSYCHOLOGY. A.B, Oberlin Col, 38; M.A, Columbia, 39; Ph.D.(psychol), Illinois, 50. Intern psychol, Menninger Clin, 39-40; psychologist, Jos. E. Seagram, 41-43; chief psychologist, med. center, Colorado, 46-47; instr. psychol, Illinois, 47-49, asst. prof, 50-52, res. assoc, inst. personality & soc. psychol, 49-50; supvry. psychologist, personnel res. br, Adj. Gen. Off, U.S. Dept. Army, 52-56; psychol. consult, dent. div, U.S. Pub. Health Serv, 56; res. psychologist, exec. off, State Dept. Health, Pa, 57-60; ASSOC. PROF. PSYCHOL, PA. STATE, 61- Lectr, Maryland Overseas Div, 66-67. U.S.A, 43-46. Fel. Psychol. Asn. Industrial and clinical psychology. Publ: Continuing professional education for engineers, 64, Determination measurement of supervisory training needs hospital personnel, 65 & Managerial and supervisory educational needs of business and industry, 67, Pa. State Univ. Address: Dept. of Planning Studies, 1 Shields Bldg, Pennsylvania State University, University Park, Pa. 16802.

DUBKE, DR. MARIE E, b. Buffalo, N.Y, Jan. 30, 30; m. 62. BUSINESS ADMINISTRATION. B.S, Buffalo, 50, M.B.A, 55; Ph.D, Mich. State, 61. Mem. audit staff & secy, Phillips, Wertman & Co, N.Y, 50-52; mem. faculty acct, Buffalo, 52-55; audit staff, Touche, Ross, Bailey & Smart, Mich, 57-61; ASSOC. PROF. ACCT, Central Michigan, 61-67; MEMPHIS STATE, 67- Mem. faculty, Mich. State, 55-57; summer fel. econ. ed, 63. Woman's Soc. Cert. Pub. Acct.(v.pres, 66-); Acct. Asn; Econ. Asn; Nat. Asn. Acct. Finance; accounting theory; history of accounting organizations in the United States, especially the history and development of the two women's groups of accountants. Publ: Accounting theory and practice: how far apart?, Woman C.P.A, 8/63. Address: Dept. of Accountancy, Memphis State University, Memphis, Tenn. 38111.

DUBLIN, DR. LOUIS I(SRAEL), Statist, see 10th ed, Soc. & Behav. Vols.

DUBNO, DR. PETER, b. New York, N.Y, Feb. 18, 19; m. 40; c. 4. PSYCHOLOGY. B.A, Brooklyn Col, 42, M.A, 54; Ph.D, N.Y. Univ, 60. Personnel interviewer, Carl Norden, Inc, 42-45; prod. mgr, Rose Knitting Mill, 45-53; lab. asst. exp. psychol, Brooklyn Col, 53-55; indust. psychologist, Polytech. Inst. Brooklyn, 55-60; prog. dir, Herrold Assocs, 60-61; asst. prof. MGT, N.Y. UNIV, 61-64, ASSOC. PROF, 64- Lectr, City Col. New York, 59-61; expert exam, State Employ. Serv, N.Y. Consult, Psychol. Servs. Center Teaneck, N.J, 61. Mem. accrediting cmn, Nat. Home Study Coun, 58. AAAS; Psychol. Asn. Group dynamics; interactional theories of leadership; organizational behavior. Publ: Role of the psychologist in labor unions & Decision characteristics of leaders and group behavior, Am. Psychologist; Decision time characteristics of group leaders, J. Soc. Psychol. Address: 85-11 Kent St, Jamaica, N.Y. 11432.

Du BOIS, DR. CORA, b. New York, N.Y, Oct. 26, 03. ANTHROPOLOGY. B.A, Columbia, 27, M.A, 28; fel, California, 29-32, Ph.D.(anthrop), 32; hon. M.A, Harvard, 55; hon. D.Sc, Wilson Col, 58, Wheaton Col, 63; LL.D, Mills Col, 59; hon. D.H.L, Holyoke Col, 60. Res. assoc. anthrop, California, 32-35; Nat. Res. Coun. fel, Boston Psychopath. Hosp, Harvard & Bellevue Hosp, 35-36; instr, Hunter Col, 36-37; Soc. Sci. Res. Coun. fel. from Columbia, Indonesia, 37-39; instr, Sarah Lawrence Col, 39-42; sect. chief, Off. Strategic Serv, 42-44, br. chief, Ceylon, 44-45; U.S. Dept. State, 45-50; consult. soc. sci, WHO, 50-51; dir. res, Inst. Int. Ed, 51-54; ZEMURRAY-STONE PROF. ANTHROP, HARVARD & RADCLIFFE, 54- Carnegie vis. prof, Hawaii, 58; fel, Center Adv. Study Behav. Sci, 58-59; Nat. Sci. Found. res. grants, 61-68. Order of the Crown of Thailand & Santimala peace medal; Except. Civilian Serv. award, U.S. Dept. Army. Anthrop. Asn.(v.pres, 49); Ethnol. Soc; Am. Acad. Arts & Sci; Asn. Asian Studies. Political, economic and social studies of southeast Asia; personality and culture; field research, Orissa, India. Publ: People of Alor; Social forces in southeast Asia; ed, Lowie's selected papers in anthropology, Univ. California, 60. Address: Dept. of Anthropology, Harvard University, Cambridge, Mass. 02138.

DUBOIS, DR. LLOYD V, b. Forgan, Okla, Nov. 20, 21; m. 47; c. 2. PSYCHOLOGY. B.S, Okla. State, 49, M.S, 51, Ed.D.(student personnel serv), 65. Teacher, high sch, Okla, 49-54, chmn. dept. soc. sci, 54-56, dean boys, 56-59, guid. dir, 59-61; instr. ed. & psychol, Southwest. State Col.(Okla), 62-63; psychologist, pub. schs, Okla, 63-65; ASST. PROF. PSYCHOL, SOUTHWEST. STATE COL.(OKLA), 65- Spec. summer instr, Okla. State, 65. U.S.A.A.F, 42-45, S/Sgt. Personnel & Guid. Asn. Social, educational, emotional and mental adjustment of college students to college life; the development of behavioral science research programs for students in a four year state college. Publ: A study of factors related to persistence and withdrawal among sophomore students in the college of education at Oklahoma state university, Okla. State, 66. Address: Dept. of Psychology, Southwestern State College, Weatherford, Okla. 73096.

DU BOIS, DR. N.S. D'ANDREA, JR, b. Darlington, S.C, Apr. 24, 30; m. 57. MATHEMATICAL STATISTICS, BIOSTATISTICS. B.S, Howard, 54, M.S, 55; California, Berkeley, 56-60; Ph.D.(statist), California, Los Angeles, 66. Instr. math, Howard, 55-56; mathematician, David Taylor Model Basin, U.S. Navy, summer, 56; programmer, Calif. State Health Dept, 60-63; Health Sci. Center, Univ. California, Los Angeles, 63-66; STATISTICIAN, APPL. MATH. DEPT, TRW SYSTS, 66- Consult. statistician, Calif. State Health Dept, 63-; sch. med, Southern California, 65-66; Syst. Develop. Corp, summer, 66. Inst. Math. Statist; Biomet. Soc; Pub. Health Asn. Application of statistical techniques and computers to problems in the biosciences, including the design and implementation of information systems for medical research. Publ: A document linkage program for digital computers, Behav. Sci, 65; Feasible designs and analyses of population registries, Proc. Int. Symp. Automation, 67; A feasible policy for increasing health services in a community, Am. J. Pub. Health, 68. Address: TRW Systems R3/2142, One Space Park, Redondo Beach, Calif. 90278.

DuBOIS, PROF. PHILIP HUNTER, b. Newburgh, N.Y, July 8, 03; m; c. 1. PSYCHOLOGY. A.B, Union (N.Y), 25; A.M, Columbia, 29, Ph.D.(psychol), 32. Instr. psychol, Columbia, 30-33; asst. prof, Idaho State, 33-35; New Mexico, 35-39, assoc. prof. & dir. bur. tests & records, 39-46; PROF. PSYCHOL, WASHINGTON (ST. LOUIS), 46- Intern, N.Y. State Psychiat. Inst, 32-33; vis. asst. prof, N.Y. Univ, 39; supvr. merit syst, N.Mex. Merit Syst. Coun, 40-42. Consult, U.S. Vet. Admin, 47-; St. Louis Dept. Police, 47-; U.S. Dept. Air Force, 51-57; U.S. Dept. Defense, 52-57; U.S. Off. Ed, 62-67. U.S.A.A.F, 42-46, Res, 46-, Lt. Col. AAAS; fel. Psychol. Asn; Psychomet. Soc.(secy, 56-61, pres, 61-62); Soc. Multivariate & Exp. Psychol; Nat. Coun. Measurement in Ed. Psychological test theory; training research; statistical methods. Publ: Multivariate correlational analysis; An introduction to psychological statistics, Harper, 65. Address: Dept. of Psychology, Washington University, St. Louis, Mo. 63130.

Du BOIS, DR. WILLIAM EDWARD BURGHARDT, Sociol, see 10th ed, Soc. & Behav. Vols, deceased 63.

DUBOV, PROF. IRVING, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

DuBRIN, DR. ANDREW J(OHN), b. New York, N.Y, Mar. 3, 35; m. 59; c. 1. INDUSTRIAL PSYCHOLOGY. A.B, Hunter Col, 56; M.S, Purdue, 57; Nat. Sci. Found. summer fel, Mich. State, 59, Ph.D, 60. Asst. instr. psychol, Mich. State, 57-60; clin. psychologist, William Beaumont Army Hosp, El Paso, Tex, 60-62; STAFF PSYCHOLOGIST personnel res. dept, Int. Bus. Mach. Corp, 62-64; ROHRER, HIBLER & REPLOGLE, NEW YORK CITY, 64-, PARTNER, ROCHESTER, 67- Psychol. Asn. Personality leadership assessment; nonlinear models; paranoid schizophrenia; projective techniques in personality study; organizational change, management assessment. Publ: Trait and situational approaches in the development of a leadership inventory, Indust. Psychol; Rorschach eyes hypothesis and paranoid schizophrenia, J. Clin. Psychol. Address: Rohrer, Hibler & Replogle, One Main St. W, Rochester, N.Y. 14614.

DUBROVNER, DR. RAPHAEL J(ONAH), b. Memphis, Tenn, May 16, 25; m. 53; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Southwestern at Memphis, 47; M.A, Tennessee, 49; Ph.D.(psychol), Iowa, 51. Asst, Tennessee & clin psychologist, East. State Hosp, 49; asst, Iowa, 49-51; physiol. & exp. psychologist, bombing navig. res. unit operator lab, U.S. Air Force Personnel & Training Res. Center, Mather Air Force Base, 51-58; supvry. psychologist, U.S. Naval Missile Center, 58-61; SR. HUMAN FACTORS SCIENTIST, SYST. DEVELOP. CORP, 61- Instr, Los Angeles Pierce Col, 63-65; Peace Corps field assessment officer, California, Los Angeles, summer, 64, 66-U.S.M.C, 43-46. Psychol. Asn; Sci. Res. Soc. Am; Human Factors Soc. Experimental psychology; human engineering; training. Address: 6007 Melvin, Tarzana, Calif. 91356.

DUBROW, DR. MAX, Counseling, Psychol, see 10th ed, Soc. & Behav. Vols.

DuBRUL, STEPHEN M(cKENZIE), Econ, see 10th ed, Soc. & Behav. Vols.

DUCEY, PROF. PAUL RICHARD, b. Orange, N.J, Nov. 28, 26; m. 51. ANTHROPOLOGY. A.B, Columbia, 50, Mitchell fel, 50-51, univ. fel, 52-53, Cutting fel, 53-54, Ph.D, 56; Fulbright scholar, Glasgow, 53-54; Soc. Sci. Res. Coun. fel, 53-54. Res. expert, lands div, U.S. Dept. Justice, 51; instr.

sociol. & anthrop, St. Lawrence, 55-56, asst. prof, 56-62, ASSOC. PROF, 62; ANTHROP, American Univ. Cairo, 62-64; RHODE ISLAND, 66- Consult, div. archaeol. & hist, State Univ, N.Y, 57-59. U.S.A, 45-46. Fel. Anthrop. Asn; Soc. Am. Archaeol. Marginal peoples of Europe; aboriginal inhabitants of northeastern North America; Africa, especially current developments. Publ: Cultural continuity and population change on the Isle of Skye. Address: 23 Earles Court, Narragansett, R.I. 02882.

DUCHACEK, PROF. IVO D(UKA), b. Prostejov, Czech, Feb. 27, 13; nat; m. 56; c. 2. COMPARATIVE GOVERNMENT, INTERNATIONAL RELATIONS. Ph.D.(law, govt), Masaryk Univ, Brno, 35. Lectr, CITY COL. NEW YORK, 49-54, asst. prof. GOVT, 54-58, assoc. prof, 58-63, PROF, 63- Vis. res. fel. & lectr, Yale, 49-53; vis. lectr, Air War Col, Ala, 55, 60; vis. prof, Columbia, 63, 66, 67. vis. Lectr, U.S. Army War Col, 61-67; U.S. Army Command & Gen. Staff Col, 64-67; Polit. Sci. Asn. Comparative politics of violence. Publ: Nations and men, Holt, 67; Constitutions and nations, Little, 68. Address: 7 E. 82nd St, New York, N.Y. 10028.

DUCOFF, DR. LOUIS J(OSEPH), b. Russia, Mar. 4, 09; nat; m. 37; c. 2. ECONOMICS. B.S, Rutgers, 33; Soc. Sci. Res. Coun. fel, 47-48; Ph.D.(econ), American Univ, 49. Agr. economist, U.S. Dept. Agr, 35-40; economist, U.S. Dept. Labor, 40-41; labor economist, bur. agr. econ, U.S. Dept. Agr, 42-52, asst. chief, farm pop. & rural life br, 53-61, CHIEF, 62-64, human resources br, 65; OFF. SOC. AFFAIRS, UN ECON. CMN. LATIN AM, MEX, 66- Adv, U.S. del, Int. Labor Conf, Geneva, 50, 51; demographer, tech. asst. admin, UN, Mex, 57-58, 59-60. Consult, Pop. Census, 50; President's Cmn. Migratory Labor, 50-52; pop. redistrib. & econ. growth proj, Univ. Pennsylvania, 52-53. Mem. agr. cmt, Int. Labor Off, 53-; cmt. rev. labor force concepts, U.S. Bur. Budget, 54-56. Superior Serv. award, U.S. Dept. Agr, 53. Pop. Asn; Rural Sociol. Soc.(ed, Bull. Rev, 52-65); Int. Asn. Agr. Econ; Int. Union Sci. Study pop. Population and manpower studies; economic and social development problems; Latin American population and manpower studies in relation to economic development. Publ: Wages of agricultural labor in the U.S, Tech. Bull, U.S. Dept. Agr; Human resources of Central America, Panama and Mexico, 1950-1980, UN Econ. Cmn. Latin Am, 60; Role of migration in the demographic development of Latin America, Milbank Mem. Fund Quart, 65. Address: 7667 Maple Ave, Apt. 504, Takoma Park, Md. 20012.

DUDEK, DR. EDMUND E(MIL), b. Clarkson, Nebr, Nov. 20, 14; m. 45; c. 3. PSYCHOLOGY. A.B, Nebraska, 35, M.A, 36; Inst. Int. Ed. scholar, Charles Univ, Prague, 36-37; fel, Purdue, 46-48, Ph.D.(psychol), 48. Assoc. tech. rep, U.S. Employ. Serv, 40-42; teaching assoc, Purdue, 46-48; asst. prof. & dir. bur. testing, Washington (Seattle), 48-52; chief scientist, U.S. NAVAL PERSONNEL RES. ACTIVITY, 52-60, TECH. DIR, 61- Res. coordinator, Off. Asst. Secy. Defense, 66-67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. U.S.N, 42-46, Lt. Comdr. Psychol. Asn; Psychomet. Soc; Int. Asn. Appl. Psychol. Personnel selection and classification; industrial training; organizational effectiveness. Address: U.S. Naval Personnel Research Activity, San Diego, Calif. 92152.

DUDEK, PROF. FRANK J(OSEPH), b. Clarkson, Nebr, Feb. 28, 19; m. 43; c. 3. PSYCHOLOGY. A.B, Nebraska, 40, M.A, 41; Brown, 41-42; Nat. Res. Coun. fel, Southern California, 46, Ph.D.(psychol), 47. Jr. test construct. analyst, psychol. div, res. br, Air Surgeon's Off, 42, aviator, psychol. res. proj. three, Calif, 42-43; asst. prof. PSYCHOL, Northwestern, 47-50; PROF, NEBRASKA, 50- Staff assoc, grad. sci. facilities sect, instnl. rels, Nat. Sci. Found, 66-67. U.S.A.A.F, 43-46. Psychol. Asn. Tests and measurements; psychometric methods; dependence of factorial composition of aptitude tests upon population differences among pilot trainees. Address: Dept. of Psychology, University of Nebraska, Lincoln, Nebr. 68508.

DUDEK, DR. STEPHANIE Z, b. U.S, Dec. 18, 21; m. 44; c. 1. CLINICAL PSYCHOLOGY. B.A, McGill, 43; M.A, Columbia, 48; Ph.D.(psychol), N.Y. Univ, 60. Res. psychologist, N.Y. State Psychiat. Inst, 48-50; skin & cancer unit, Bellevue Med. Center, 50-52, staff psychologist, 53-54; psychotherapist, N.J. Clin, Paterson, 55-58; head dept. psychol, ALLAN MEM. INST, 60-65, STAFF PSYCHOLOGIST, 65- Lectr, City Col. New York, 52-56; N.Y. Univ, 55-57; asst. prof, McGill, 61-; lectr, Sir George Williams, 64. Consult, Cedarhurst Long Island Community Center, 52-55; staff psychologist, Columbia Med. Center, 52-58; consult, Windham Children's Serv, N.Y, 55-58; Yoder Reading Center & Beckmore Sch, 55- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. Psychol. Asn. Research clinical psychology; diagnosis; therapy; teaching. Publ: Research on human movement response, In: Neurotic interaction in marriage, Basic Books, 56; Suggestion and play therapy in cure of warts, 67 & Regression and creativity, 68, J. Nervous & Ment. Disease. Address: 3476 Vendome Ave, Montreal 28, P.Q, Can.

DUDENHOEFFER, ALBERT E(DWARD), S.J, b. St. Louis, Mo, Dec. 8, 15. ECONOMICS. A.B, St. Louis, 42, M.S, 45, Ph.D, 55. Teacher, high sch, Mo, 45-48; asst. prof. ECON, ROCKHURST COL, 54-66, ASSOC. PROF. & CHMN. DEPT, 66-, DIR. DEPT. INDUST. RELS, 54-, consult, 54-61. Econ. Asn. Coordination of general theories of money and price; multiple basing point pricing in cement industry; cushioning the impact of technological progress upon labor. Address: Dept. of Economics, Rockhurst College, Kansas City, Mo. 64110.

DUDGEON, DR. ESTHER J(AMES), b. Hutchinson, Kans, June 16, 99; m. 30. ECONOMICS, POLITICAL SCIENCE. B.S, Kansas, 46, M.B.A, 47; D.C.S, Indiana, 51. Instr. econ, Kansas, 46-48, asst. dir, bur. bus. res, 47-48; prof. econ, St. Mary-of-the-Woods Col, 48-49, prof. econ. & chmn. dept, 51-53; asst. econ. transportation, Indiana, 49-51; instr. econ, U.S. Army Ed, Yokohama, 53-55; prof. econ, Dominican Col.(Calif), 56; ANALYST, LEGIS. REFERENCE SERV, LIBRARY CONG, 56- Lectr, Keio Univ, Japan, 54-55; instr, Univ. California in Toyko, 54-55. Econ. Asn; Acad. Polit. & Soc. Sci; Transportation Res. Forum; Acad. Polit. Sci; Japanese Soc. Transportation Econ. General transportation and communications; study of television in Europe; problems involved in allocation of frequencies for all uses; booster and relay stations; satellite communications. Publ: Civil aviation and Roads and highways, Encyclop. Brit; co-auth, Building materials in Kansas. Address: Legislative Reference Service, Library of Congress, Washington, D.C. 20540.

DUDRA, PROF. MICHAEL, b. Jersey City, N.J, Nov. 16, 12; m. 46. ECONOMICS. B.S, Berlin, 40; J.D, Ukrainian Univ, Czech, 42; Ph.D.(econ), Charles Univ, Prague, 45. Asst. prof. econ, UNRRA Univ, Germany, 46-47; Ukrainian Grad. Sch. Econ, 47-48; assoc. prof, Col. Steubenville, 49-52, prof. & chmn. dept, 53-59; assoc. prof, Loyola (Calif), 52-53; PROF. ECON. & CHMN. GRAD. PROG. INDUST. RELS, ST. FRANCIS COL.(PA), 59- Econ. Asn; Indust. Rel. Res: Asn; Int. Asn. Labor Law & Social Legis. Labor economics and law; industrial relations. Publ: Swiss system of union security; Statutory regulation of union security in Latin America; Union security in Canada. Address: Dept. of Economics, St. Francis College, Loretto, Pa. 15940.

DUDYCHA, DR. ARTHUR L, b. Ripon, Wis, Nov. 25, 40; m. 64. STATISTICAL PSYCHOLOGY. A.B, Wittenberg, 63; Nat. Defense Ed. Act fel. & M.A. Ohio State, 65, Ph.D.(statist. & indust. psychol), 67. Res. assoc. comput. prog, Ohio State, 65-67; ASST. PROF. QUANT. PSYCHOL, PURDUE, 67- Nat. Sci. Found. res. grant, Ohio State, summer, 67. Psychomet. Soc; Psychol. Asn. Applied statistics; experimental design; human factors engineering; multiple cue behavior; profile clustering. Publ: Effect of variations in the cue R matrix upon the obtained policy equations of judges, 66 & co-auth, An empirical comparison of Po and Pm as indices of rater policy agreement, 67, Ed. & Psychol. Measurement. Address: Dept. of Psychology, Purdue University, Lafayette, Ind. 47906.

DUDYCHA, PROF. GEORGE J(OHN), b. Cedar Rapids, Iowa, June 26, 03; m. 27; c. 2. PSYCHOLOGY. A.B, Coe Col, 25; A.M, Iowa, 26; Ph.D.(psychol), Columbia, 36. Instr. psychol, Ripon Col, 26-30, asst. prof, 30-36, prof, 36-50, asst. registr, 36-37, registr, 37-40, dir. bur. student personnel, 44-50; PROF. PSYCHOL, WITTENBERG, 50- Fel. AAAS; fel. Psychol. Asn. Personality traits; student beliefs and attitudes; childhood memories; psychology in law enforcement. Publ: Psychology for law enforcement officers; Learn more with less effort; Applied psychology, Ronald, 63. Address: Dept. of Psychology, Wittenberg University, Springfield, Ohio 45501.

DUE, PROF. JOHN F, b. Hayward, Calif, July 11, 15; m. 50. ECONOMICS. A.B, California, 35, Ph.D, 39; A.M, George Washington, 36. Instr. ECON, Utah, 29-42, asst. prof, 46-47, assoc. prof, 47-48; ILLINOIS, URBANA, 48-51, PROF, 51- Economist, U.S. Treasury, 42. U.S.M.C, 42-46. Econ. Asn; Tax Asn. Public finance; economic theory; sales taxation. Address: Dept. of Economics, University of Illinois, Urbana, Ill. 61801.

DUERFELDT, DR. PRYSE HENRY, b. Tacoma, Wash, Feb. 2, 35; m. 60; c. 1. PSYCHOLOGY. B.S, Puget Sound, 60, B.A, 61; M.A, Iowa, 63, Ph.D.(psychol), 65; cert. med. psychol, Oregon, 65. Intern PSYCHOL, med. sch, Oregon, 64-65, instr, 65-66; ASST. PROF, PORTLAND, 66- Consult, dept. psychiat, med. sch, Oregon, 67- U.S.A, 55-58. AAAS; Psychol. Asn. Autonomic nervous system functioning; self-reinforcement; vicarious, environmental, and partial reinforcement; experimental approaches to personality; developmental, clinical, and general experimental psychology; unified behavior theory and its application. Publ: Co-auth, Autonomic responses evoked by a forced discrimination procedure, 64 & Cardiac responsiveness and differential conditioning, 67, J. Comp. & Physiol. Psychol. & Effects of pretraining on self-evaluation and self-reinforcement, J. Personality & Soc. Psychol, 67. Address: Dept. of Psychology, University of Portland, Portland, Ore. 97203.

DUERR, PROF. WILLIAM A(LLEN), b. Portland, Maine, July 7, 11; m. 44; c. 2. FOREST ECONOMICS. B.S, Iowa State Col, 34; M.S, Minnesota, 39; fel, Harvard, 39-41, A.M, 40, Lee fel, 40-41, Ph.D, 44. Asst. technician, Lake States Forest Exp. Sta, U.S. Forest Serv, 34-35, technician & jr. forester, 35-37, forest economist, 37-40, Appalachian Forest Exp. Sta, 41-45, chief, div. forest econ, South. Forest Exp. Sta, 45-51, asst. chief, D.C, 51-52; PROF. FOREST ECON. & CHMN. DEPT, STATE UNIV. N.Y. COL. FORESTRY, SYRACUSE, 52- Econ. Asn; Soc. Foresters; Farm Econ. Asn. Economics of forest conservation; timber products marketing; forest management. Publ: Economic problems of forestry in the Appalachian region; Research in the economics of forestry, scope and method; Fundamentals of forestry economics; Exercises in the managerial economics of forestry, W.C. Brown, 64. Address: College of Forestry, State University of New York, Syracuse, N.Y. 13210.

DUETSCH, DR. JOSEPH JOHN, b. Irvington, N.J, Nov. 27, 20; m. 44; c. 2. CLINICAL PSYCHOLOGY. B.S, Seton Hall, 50; M.A, Fordham, 52; Ph.D, Kentucky, 59. Asst. mil. ed, Ed. Res. Corp, Mass, 51-52; psychophysiologist, med. res. lab, U.S. Army, Ky, 52-55; clin. psychol. trainee, VET. ADMIN. HOSP, Lexington, Ky, 56-59, CLIN. PSYCHOLOGIST, SALEM, VA, 59-, DIR. ALCOHOLIC REHAB. PROG, 67- Consult, Virginia Synod, Lutheran Church in Am, 66-; Lutheran's Children's Home in the South, Salem, Va, 67- U.S.A, 42-46, Sgt. Psychol. Asn. Projective techniques; memory; chemotherapy. Publ: Development of a static target apparatus and tasks for study of control and reticle characteristics. Address: Psychology Service, Veterans Administration Hospital, Salem, Va. 24153.

DUEWER, DR. LAWRENCE A, b. Springfield, Ill, Dec. 28, 38; m. 67. AGRICULTURAL ECONOMICS. B.S, Illinois, 60, M.S, 62; Ph.D.(agr. econ), Iowa State, 65. Teacher, high sch, Ill, 60-61; res. assoc. agr. econ, Iowa State, 64-65; AGR. ECONOMIST, ECON. RES. SERV, U.S. DEPT. AGR, 65- Agr. Econ. Asn. Livestock and meat marketing, especially at the retail level. Publ: Co-auth, Fact book for Illinois agriculture, Bull. AE-3798, Univ. Illinois, 9/62; auth, An examination of beef and pork price spread computation procedures, Mkt. & Transportation Situation, 11/67; co-auth, Characteristics of demand for meat by consumers in Webster County, Iowa, spec. report 56, Iowa State Univ, 2/68. Address: 2815 Cedar Lane, Vienna, Va. 22180.

DUFF, EDWARD, S.J, b. Boston, Mass, Mar. 17, 12. POLITICAL SCIENCE. A.B, Col. Holy Cross, 33; M.A, Boston, 38; D. ès Sc. Pol, Geneva, 56. Instr. philos, Col. Holy Cross, 38-40; assoc. ed, America, Nat. Cath. Weekly, 47-52; ed, Soc. Order, St. Louis Univ, 56-62; ASSOC. PROF. POLIT. SCI, COL. HOLY CROSS, 64- Vis. prof, Catholic Univ, 67. Award, Cath. Sociol. Soc, 57. Christian social thought; religion in American society. Publ: The social

thought of the World Council of Churches, Asn. Press, 56. Address: Dept. of Political Science, College of the Holy Cross, Worcester, Mass. 01610.

DUFF, PROF. EUGENE FRANCIS, b. Chicago, Ill, June 24, 22; m. 45; c. 9. ECONOMICS, BUSINESS ADMINISTRATION. B.S.C, DePaul, 49, M.B.A, 50; summer, Loyola (Ill), 51-53. Instr. acct. econ, St. Joseph's Col.(Ind), 50-51; from instr. to assoc. prof. mgt. & chmn. dept. bus. admin, Lewis Col, 51-59; from asst. prof. to PROF. ECON. & ED. SOCIOL, COL. ST. FRANCIS, 59- Mem. faculty adv. cmt, State of Ill. Bd. Higher Ed. U.S.A.A.F, 41-45; U.S.A.F.R, 45-, Maj. Econ. Asn; Nat. Coun. Geog. Ed. Business cycle theory and forecasting, especially statistical indices availability or reliability; college admissions procedures and counseling services to students. Address: Dept. of Economics, College of St. Francis, Joliet, Ill. 60435.

DUFF, DR. FRANKLIN LEROY, b. Covington, Ky, Nov. 13, 26; m. 54; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Cincinnati, 50; M.A, Miami,(Ohio), 57; Am. Ed. Res. Asn. fel, Columbia, 57-58, alumni fel, 58-59, Ph.D. (measurement), 63. Teacher, pub. schs, Ky, 52-53, Ohio, 53-57; test ed, Harcourt, Brace & World, Inc, 58-61; asst. prof, Miami (Ohio), 61-64; asst. dir. BUR. INSTNL. RES, ILLINOIS, URBANA, 64-68, ASSOC. DIR, 68- Sig.C, U.S.A, 50-52, Sgt. Psychol. Asn; Ed. Res. Asn; Asn. Instnl. Res; Nat. Coun. Measurement in Ed. Institutional research, with studies of staff characteristics and activities especially instruction related activities. Publ: Item subtlety in personality inventory scales, J. Consult. Psychol, 65. Address: Bureau of Institutional Research, University of Illinois, 409 E. Chalmers, Champaign, Ill. 61820.

DUFF, DR. JOHN B, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DUFF, DR. RAYMOND STANLEY, Pediat, Sociol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

DUFF, WILSON, b. Vancouver, B.C, Mar. 23, 25; m. 48; c. 2. ANTHROPOLOGY. B.A, British Columbia, 49; M.A, Washington (Seattle), 51; Can. Coun. fel, 58-59. Curator ANTHROP, Prov. Mus. Natural Hist. & Anthrop, B.C, 50-65; ASSOC. PROF, BRITISH COLUMBIA, 65- R.C.A.F, 43-46, Flying Officer. Fel. Anthrop. Asn. Ethnology and archaeology of the northwest coast and adjacent culture area. Publ: Anthony Island, a home of the Haida; Upper Stalo Indians; Prehistoric stone sculpture of the Fraser River and Gulf of Georgia. Address: Dept. of Anthropology & Sociology, University of British Columbia, Vancouver 8, B.C, Can.

DUFFEE, RICHARD A(NTHONY), Biometeorol, Psychol, see 11th ed. Phys. & Biol. Vols.

DUFFENDACK, DR. STANLEY CHITTENDEN, b. Tulsa, Okla, Sept. 11, 18; m. 43; c. 3. PSYCHOLOGY. A.B, Michigan, 41, M.A, 48, Ph.D, 54. Asst. psychologist, univ. hosp, Michigan, 49-50, Michigan, 50-52; surv. dir, Neselski & Co, 52-53; chief psychologist, Vet. Admin. Hosp, Ann Arbor, Mich, 54-56; head personnel res, Iranian Oil Exploring & Producing Co, 56-59; CONSULT. DEVELOP. APPL. RES, GEN. ELEC. CO, 59- Psychol. Asn. Personality development; interpersonal perception; perception. Address: 107 Bickford Lane, New Canaan, Conn. 06840.

DUFFETT, DR. JAMES R(OY), b. Daytona Beach, Fla, Sept. 20, 27. STATISTICS. B.S, Stetson, 48; M.S, Florida, 50; New Mexico State, 52; Ph.D. (statist), Va. Polytech, 60. Math. statistician, guided missile reliability group, Los Angeles Ord. Dist, 52-54; anal. statistician eng, White Sands Proving Ground, 54-56, supvr. opers. res. sect, Radioplane, 56-57; asst. prof. statist, Va. Polytech, 57-58; MEM. TECH. STAFF, FLA. OPERS, TRW SYSTS, 58- U.S.A, 50-52. Fel. Statist. Asn; Inst. Math. Statist; Ord. Asn. Weighted least squares; reliability of complex automatic electro-mechanical devices; redundancy in component design; measurement instrumentation; power spectral analysis; statistical design and analysis of experiments. Publ: Some experience with the design of experiments, Indust. Qual. Control, 54; co-auth. The use of the chance failure law to evaluate hazards on missile and space vehicle tests, 65 & auth, System reliability synthesized from component reliabilities under non-independence of stresses, 67, Reliabilities Logistics Rev, 67. Address: Florida Operations, TRW Systems, 7001 N. Atlantic Ave, Cape Canaveral, Fla. 32920.

DUFFETT, WALTER ELLIOTT, b. Toronto, Ont, Jan. 19, 10; m. 40; c. 2. STATISTICS, ECONOMICS. B.Com, Toronto, 33; M.Sc, London Sch. Econ, 35. Mem. staff, Sun Life Assurance Co, Can, 35-42; Can. Govt, 43-44; asst. chief res. dept, Bank of Can, 44-54; dir. econ. & res. br, Can. Dept. Labor, 54-56; DOM. STATISTICIAN, DOM. BUR. STATIST, 57- Statist. Asn; Can. Econ. Asn. Foreign investment; wartime economic controls; current business and financial development; labor economics and statistics. Address: Dominion Bureau of Statistics, Ottawa, Ont, Can.

DUFFETT, MAJOR WALTER N, U.S.A.F, Phys. Geog, Cartog, see 11th ed, Phys. & Biol. Vols.

DUFFUS, PROF. WILLIAM M(cGLASHAN), Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

DUFFY, PROF. DANIEL J(OSEPH), Opers. Res, Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

DUFFY, PROF. ELIZABETH, b. New Bern, N.C, May 6, 04; m. 38; c. 1. PSYCHOLOGY. A.B, North Carolina, 25; A.M, Columbia, 26; Nat. Res. Coun. scholar, Hopkins, 27-28, Ph.D.(psychol), 28. Nat. Res. Coun. fel. child develop, Columbia, 28-29; mem. faculty soc. sci, Sarah Lawrence Col, 29-37; PROF. PSYCHOL, NORTH CAROLINA, GREENSBORO, 37-, Res. Coun. res. grants, 68. Instr, N.Y. Univ, 31; Nat. Sci. Found. vis. scientist, Va, 59; South. Fel. Fund summer grantee, 59. Mem. cmt. pre-doctoral fels, Nat. Sci. Found. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc; Soc. Psychophysiol. Res. Phenomena of activation; descriptive categories of psychology; determinants of personality; emotion as a scientific term. Publ: Activation and behavior, Wiley, 62; The conceptual categories of psychology: a suggestion for revision, Psychol. Rev, 41; Activation, In: Handbook of psychophysiology, Holt, 68. Address: Dept. of Psychology, University of North Carolina at Greensboro, Greensboro, N.C. 27412.

DUFFY, PROF. F(RANCIS) R(AMON), b. Philadelphia, Pa, Mar. 26, 15. SOCIOLOGY. B.A, St. Mary's Sem, 38, B.D, 42; A.M, Catholic Univ, 44; Ph.D, Pittsburgh, 55. From instr. to PROF. SOCIOL. & CHMN. DEPT, DUQUESNE, 48-, dean men, 46-47. Chaplain Juvenile Court, Allegheny Co, Pa, 47-67. Consult, Children's Home, Pittsburgh, 65-; Med. dept, Gulf Oil Corp, 66-; Behav. Clin, Pittsburgh, 67- U.S.A.R, 62-, Lt. Col. Sociol. Asn; Soc. Clin. Hypnosis; fel. Royal Anthrop. Inst. Anthropology; title system in Nigeria: social problems for nurses. Publ: Exploring the Child's World, (radio series). Address: Dept. of Social Science, Duquesne University, Pittsburgh, Pa. 15219.

DUFFY, JAMES L(ENNON), S.J, Econ, see 10th ed, Soc. & Behav. Vols.

DUFFY, JOHN P(AUL), JR, b. Miami, Fla, Nov. 12, 28; m. 59; c. 2. ECONOMICS. B.S, N.Y. Univ, 54; B.A, Columbia, 55, Seager fel, 55-56, univ. fel, 56-57. Econ. analyst, Atomics Int. Div, N.Am. Aviation, Inc, 57; assoc. econ. consult, Joel Dean Assocs, Inc, 57-62, v.pres, 62-66; PLANNING CONSULT, INT. BUS. MACH. CORP, 66- U.S.A, 46-49, Sgt. Econ. Asn; Finance Asn. Industrial organization; international and managerial economics; capital management; applied statistics. Publ: How the business economist can help in management's antitrust problems, Anti-Trust Bull. Address: 18 Mill River Rd, Chappaqua, N.Y. 10514.

DUFORT, DR. ROBERT H(AMILTON), b. Pittsburgh, Pa, Oct. 15, 32; m. 52; c. 3. PSYCHOLOGY. B.A, Duke, 53, Nat. Sci. Found. fel, 55-56, Ph.D.(psychol), 56. Asst. prof. PSYCHOL, Richmond, 58-61; assoc. prof, WAKE FOREST, 61-67, PROF, 67- Nat. Sci. Found. fel, Yale, 56-58. Consult, psychobiol. div, Nat. Sci. Found, 67- AAAS; Psychol. Asn. Experimental psychology; human conditioning and learning; lower animal learning and motivation. Publ: Co-auth, Changes in response strength with changes in the amount of reinforcement, 56 & Eyelid conditioning as a function of UCS duration with drive equated, 67, J. Exp. Psychol; Adjustment of the rat to 23-, 47- and 71-hour water-deprivation schedules, Psychol. Rep, 63. Address: Dept. of Psychology, Wake Forest University, Winston-Salem, N.C. 27109.

DUFOUR, DR. VICTOR L(EE), b. Chicago, Ill, July 19, 40; m. 62; c. 2. PSYCHOLOGY. B.S, Loyola (Ill), 62, Ph.D.(psychol), 67. Chief psychologist neuropsychol, Loyola (Ill), 65-66; ASST. PROF. PSYCHOL, NORTHEAST. ILL. STATE COL, 67- Consult. neurol. dept, Vet. Admin. Hosp, Downey, 67- Psychol. Asn. Role of the limbic system in emotion; neurotrophic properties of the nervous system; capacity to value. Publ: The taste of saccharin as sufficient reward for performance, Psychol. Reports, 66. Address: Dept. of Psychology, Northeastern Illinois State College, Bryn Mawr at St. Louis Ave, Chicago, Ill. 60625.

DUFRESNE, DR. A(LPHONSE) O(LIVER), b. Montreal, Que, Apr. 10, 90; m. 18; c. 7. ECONOMICS. B.Sc, Laval, 11; M.Sc, McGill, 13, hon. D.Sc, 51; hon. D.Sc, Montreal, 46. Inspector mines, 14-28; dir, Que. Bur. Mines, 28-41; dep. minister, QUE. DEPT. MINES, 41-60, CHMN. CMT. STUDY MINING ACTS, 61- Prof. sch. forestry & land surveying, Laval, 26-45, sch. mines, 40-57. Address: 1060 Ave. Du Parc, Apt. 11, Quebec 6, Que, Can.

DUFTON, PROF. CHARLES H, b. Andover, Mass, Aug. 7, 11; m. 40; c. 1. MARKETING, ECONOMICS. B.A, Yale, 34; fel, Michigan, 35-37, M.A, 36. Instr. econ, Harvard, 37-39; economist, U.S. Bur. Budget, 39-42; sales economist, Bendix Radio Div, Bendix Corp, Md, 42-45; supvr. sales & advert, Bendix Int, New York, 45-46; PROF. MKT. & CHMN. DEPT, NORTHEASTERN, 46- Mkt. Asn. Sales management; business case writing; international marketing. Publ: Selected case studies in executive management of marketing operation. Address: 35 Canterbury St, Andover, Mass. 01810.

DUGAN, PROF. A(RTHUR) B(UTLER), b. Aberdeen, Miss, Sept. 9, 10. POLITICAL SCIENCE. A.B, Princeton, 32, Class of 1873 fel, 32-33, A.M, 33; Rhodes scholar, Oxford, 33-36, B.Litt, 35, dipl, 36; fel, North Carolina, 36-37. Instr. POLIT. SCI, North Carolina, 37-40; asst. prof, UNIV. OF THE SOUTH, 40-42, 46, assoc. prof, 46-47, PROF, 47-, CHMN. DEPT, 40-, acting dean admin, 57-58. Dir, Bank of Sewanee. Ed, comp. govt. sect, J. Polit, 50-56. U.S.N.R, 42-46, Lt. Comdr. Polit. Sci. Asn. Parliamentary control of foreign policy in England. Publ: American society and the changing world; MacKinder and his critics reconsidered, J. Polit. Address: Dept. of Political Sciences, University of the South, Sewanee, Tenn. 37375.

DUGAN, DR. DENNIS J, b. Omaha, Nebr, Mar. 21; 39; m. 62; c. 4. ECONOMICS. B.S, Creighton, 62; Ph.D.(econ), Brown, 67. ASST. PROF. ECON, NOTRE DAME, 66- Agency Int. Develop. res. grant ed, 67-68. Econ. Asn; Economet. Soc; Statist Asn. Econometrics; human resource development; growth in developing countries. Address: Dept. of Economics, University of Notre Dame, Notre Dame, Ind. 46556.

DUGAN, PROF. JAMES E(DWARD), b. Rippey, Iowa, Jan. 19. 15. ECONOMICS. A.B, Minnesota, 36, A.M, 38, Ph.D, 43. Instr, Minnesota, 40-43; asst. prof. ECON, COLORADO, 46-53, assoc. prof, 53-65, PROF, 65- U.S.A, 43-46. Econ. Asn. Monetary theory. Publ: Analyses of Minnesota incomes; Effects of the excess profits tax on business decisions. Address: Dept. of Economics, University of Colorado, Boulder, Colo. 80304.

DUGAN, DR. ROBERT D(WIGHT), b. Princeton, Ky, Nov. 14, 27; m. 48; c. 2. PSYCHOLOGY. B.A, Kentucky, 49, M.A, 50; Ph.D.(psychol), Ohio State, 53. Asst. psychol, Ohio State, 50-52, res. assoc, personnel res. bd. & instr. psychol, 52-53; res. assoc. indust. psychol, Commonwealth Life Ins. Co, 53-56; dir. agency res, State Farm Ins. Co, 56-62; sr. res. assoc. indust. psychol, Int. Bus. Mach. Corp, 62-64; DIR. DIV. PERSONNEL ADMIN, LIFE OFF. MGT. ASN, 64- Lectr, Louisville, 54-56; Ill. Wesleyan, 58-59; sr. res. scientist, Am. Inst. Res, 62-63; lectr, N.Y. Univ, 63-65. Consult, Peace Corps, 61-62, expert consult, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol, 58. U.S.A.A.F, 44-46. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc. Factor analysis; employee evaluation; management training and development; testing and employment of disadvantaged. Publ: Evaluating territorial sales

efforts, J. Appl. Psychol; co-auth, Tests and performance in a sales organization & auth, Current problems in test performance of job applicants, spring 66, Personnel Psychol. Address: 14 Valentine Rd, Briarcliff Manor, N.Y. 10510.

DUGAT, DR. REGINALD E, b. Freeport, Tex, Dec. 27, 21; m. 45; c. 2. ECONOMICS, MARKETING RESEARCH. B.S, Rice, 43. Jr. chem. engr, HUMBLE OIL & REF. CO, Baytown, 46-47, asst. chem. engr, 47-49, chem. engr, 49-53, sr. chem. engr, 53-56, sect. head econ. anal. & oper. res, 56-58, sr. mkt. specialist, Houston, 58-60, asst. mgr. mkt. res, 60-61, econ. coordinator, 61-63, sr. planning adv. econ. & planning, 63-65, MGR. corp. planning, ENJAY CHEM. CO. DIV, 65-67, MKT. RES. & MKT. SERV, 68- U.S.N.R, 43-46, Lt. Inst. Chem. Eng. Operations research; marketing research; chemical engineering; petroleum industry; economics and long range planning. Address: Enjay Chemical Co, 60 W. 49th St, New York, N.Y. 10020.

DUGGAR, PROF. GEORGE S, b. St. Louis, Mo, Aug. 20, 15; m. 38; c. 3. PUBLIC ADMINISTRATION. B.A, Wisconsin, 36, M.A, 37; A.M, Harvard, 44; Ph.D, 56. With housing & home financing agency, U.S. Nat. Housing Agency, 42-46; res. assoc, Wisconsin, 47; sr. city planner, San Francisco, Calif, 48-52; pub. admin. analyst, California, 52-61; PROF. URBAN AFFAIRS, SCH. PUB. & INT. AFFAIRS, PITTSBURGH, 61- Smith-Mundt lectr, Col. Europe, 58-59. Consult, U.S. Housing & Home Finance Agency, 52; U.S. Bur. Census, 53; Urban Renewal Study Bd, Md, 56; U.S. Agency Int. Develop, Pakistan, 67. Mem. cmt. urban develop, U.S. White House Conf. Int. Coop. Year, 65. Rapporteur, Int. Union Local Authorities, Belgrade, 65. U.S.A, 45. Polit. Sci. Asn; Soc. Pub. Admin; Inst. Planners; Regional Sci. Asn; Soc. Int. Develop. Urban development; local finance and government; urban and regional planning. Publ: The new renewal; co-ed, Urban renewal: proceedings of the international seminar, The Hague, 1958; Renewal of town and village, Int. Union Local Authorities, 65. Address: School of Public & International Affairs, University of Pittsburgh, Pittsburgh, Pa. 15213.

DUGGER, PROF. JAMES G(ORDON), b. Marion, Ill, Sept. 17, 27; m. 49; c. 2. PSYCHOLOGY, EDUCATIONAL PSYCHOLOGY. A.B, Anderson Col, 55; M.A, Ball State, 58; fel, Purdue, 60-61; summer fel, Indiana, 62; Ph.D. (counseling, indust. psychol), Iowa State, 64. Prin. & teacher, Bridges Consol. Sch, 50-51; chief IBM Dept, U.S. Atomic Energy Cmn, 51-54, coordinator, IBM Comput. Center, Ball State, 54-57; dir. planning & res, Iowa Farm Admin. Bd, 57-59; mem. staff, Midwest Ed. Center, Univac Div, Sperry Rand Corp, 59-62; asst. dean univ. col, DRAKE, 62-65, PROF. PSYCHOL. & CHMN. DEPT, 65- Res. grant, 66-; summer fel, Florida, 67; fel, North Carolina, 68-69. Consult, Grinnell Mutual Reinsurance Co, 62-63; Ford Motor Co, 64-65; Pre-retirement Center Des Moines, 67- Psychol. Asn; Soc. Personnel Admin; Data Processing Mgt. Asn. Visual perception; behavior modification; personality patterns in venereal disease; computer applications to psychological counseling. Publ: University computer business proceedings, P.C.C.C.C.U, 56; The youthful driver and significance of driver's training and counseling to accident ratio, Ball State, 58; The meaning of growth as an educational ideal, Psychology, 68. Address: Dept. of Psychology, Drake University, Des Moines, Iowa 50311.

DUHL, DR. LEONARD J, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

DUHNKE, DR. HORST G, b. Bad Kreuznach, Germany, May 2, 22; U.S. citizen; div; c. 2. POLITICAL SCIENCE. Ph.D.(German Communism), California, 64. Asst. prof. POLIT. SCI, CALIF. STATE COL. HAYWARD, 64-67, ASSOC. PROF, 67- Polit. Sci. Asn. Comparative government; governments of Western and Eastern Europe; international relations, law, and Communism; totalitarian ideologies. Publ: Stalinismus in Deutschland, Kiepenheuer & Witsch, Germany, 55. Address: Dept. of Political Science, California State College at Hayward, Hayward, Calif. 94542.

DUIGNAN, DR. PETER JAMES, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DUKE, DR. JAMES A, b. Eatonville, Wash, Apr. 1, 33; m. 55; c. 2. PSYCHOLOGY. B.A, Linfield Col, 58; univ. fels, Texas Christian, 61-64, M.A, 61, Ph.D.(psychol), 64. RES. PSYCHOLOGIST, AMES RES. CENTER, NASA, 63- Mem. sonic boom subcmt, Nat. Acad. Sci-Nat. Res. Coun, 66- Sig.C, U.S.A, 53-55. Form and pattern perception psychophysics; human factors. Publ: Co-auth, American and Japanese judgements of self height, Perceptual Motor Skills, 63; Concept formation in normal and retarded subjects, U.S. Dept. Ed, 64; auth, Methods of degradation in pattern perception, Perception & Psychophys, 66. Address: 839 Fife Way, Sunnyvale, Calif. 94087.

DUKE, DR. JAMES T(AYLOR), b. Salt Lake City, Utah, Oct. 8, 33; m. 58; c. 5. SOCIOLOGY. B.A, Utah, 57, M.A, 58; Soc. Sci. Res. Coun. & Carnegie Corp. fels. & Ph.D.(sociol), California, Los Angeles, 63. Asst. prof. SOCIOL, Idaho State, 62-63; BRIGHAM YOUNG, 63-66, ASSOC. PROF, 66- Nat. Inst. Ment. Health grant, 67-68. Sociol. Asn. Political attitudes and social stratification in the Caribbean; causes, effects and dimensions of equalitarianism. Publ: Eqalitarianism & future leaders in Jamaica, In: Democratic revolution in the West Indies, Schenkman, 67; Theoretical alternatives & social research, Soc. Forces, 6/67. Address: Dept. of Sociology, Brigham Young University, Provo, Utah 84601.

DUKE, DR. J(OHN) DANIEL, b. St. Louis, Mo, Aug. 31, 31; m. 62; c. 2. PSYCHOLOGY. B.A, North Carolina, 53, M.A, 58, Ph.D.(psychol), 62. Assoc. prof. PSYCHOL. & chmn. dept, Wofford Col, 59-62; asst. prof, Montana State, 62-64, ASSOC.PROF, 64-68, acting head dept, 66-67; APPALACHIAN STATE, 68- Med.C, U.S.A, 53-56. Psychol. Asn. Primary suggestibility; attitude change; phenomenological oddities; ethnocentrism; biological bases of hypnotizability; placebo reactivity; environmental enrichment versus deprivation; latent validity of aptitude tests. Publ: Placebo reactivity and tests of suggestibility, J. Personality, 6/64; Perception of finger drawings upon the body surface, J. Gen. Psychol, 66; Critique of the Janis and Feshbach study, J. Soc. Psychol, 67. Address: Dept. of Psychology, Appalachian State University, Boone, N.C. 28608.

DUKE, DR. KEITH E(UGENE), b. Salt Lake City, Utah, Oct. 1, 23; m. 52; c. 2. GEOGRAPHY. B.A, California, Los Angeles, 47; Dr. Univ, Bordeaux, France, 50; Ph.D, California, Los Angeles, 65. Asst. geog, California, Los Angeles, 53-55; asst. prof, Los Angeles State Col, 56; asst. prof, Brigham Young, 56-58; economist-geogr, STANFORD RES. INST, 58-66, head land use & location econ. res, 66-67, MGR. RECREATION & TOURISM RES, 67- Vis. lectr, Southern California, 55-56. U.S.A, 42-46, 50-52, Lt. Col. AAAS; Asn. Am. Geog; Acad. Polit. & Soc. Sci. Political and cultural geography; urban and area development; recreation and tourism. Publ: An industrial parks development program for Central America; Projecting travel demand for urban transportation studies; Program for development of the Puerto Rico tourism industry. Address: Stanford Research Institute, 820 Mission St, South Pasadena, Calif. 91030.

DUKE, PROF. RALPH LEONARD, b. U.S. Mar. 31, 07; m. 34; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, Texas, 38, M.A, 40; Grant Found. fel, Maryland, 54-55, Ed.D, 56. Asst. prof. ed. psychol, Texas, 54-59, assoc. prof, 59-62, res. psychologist. & dir. field res, human talent res. proj, 58-62, consult, ment. health teacher ed, univ, 58-61; PROF. ED, DIR. FIELD & LAB. EXPERIENCES TEACHERS ED. & DIR. CONSULT. CENTER SCH. PERSONNEL, DELAWARE, 62- AAAS; Psychol. Asn. Behavioral sciences; factors association with the success and failure of negro pupils in integrated schools. Publ: Co-auth, Psychology at work in the elementary school classroom; co-auth, Relationship between intelligence, scholastic motivation and academic achievement, Psychol. Reports. Address: Dept. of Education, University of Delaware, Newark, Del. 19711.

DUKE, RICHARD McCLURE, b. Cleveland, Ohio, Jan. 17, 31; m. 55; c. 2. ECONOMICS. B.A, Col. Wooster, 53; M.A, Yale, 54, univ. & Danforth Found. fels, 53-60. Economist planning, E.I. du Pont de Nemours & Co, 57-59; asst. prof. econ, Drew, 60-62; ECONOMIST, econ. sect, anti-trust div, U.S. Dept. Justice, 62-65; FED. TRADE CMN, 65- Consult, ACF Industs, 61-62. Econ. Asn. Antitrust activity; innovation and competition; the television industry; the cement industry. Publ: Co-auth, Webb-Pomerene Associations: a 50-year review, Fed. Trade Cmn, U.S. Govt. Printing Off, 68. Address: 3512 Turner Lane, Chevy Chase, Md. 20015.

DUKE, DR. ROBERT BRADFORD, b. Nashville, Tenn, Feb. 2, 33; m. 55; c. 2. PSYCHOLOGY. B.A, Carson-Newman Col, 55; B.D, South. Baptist Sem, 58; M.A, George Peabody Col, 59, Ph.D.(psychol), 63. Instr. PSYCHOL, sch. med, West Virginia, 62-65; ASST. PROF, SCH. MED, NORTH CAROLINA, 65- Psychol. Asn. Behavior modification; anxiety; brain damage and psychological tests; personality theories. Publ: Co-auth, Changes in performance on WAIS, Trail Making test, and Finger Tapping test associated with vascular surgery, Perceptual & Motor Skills, 68, The effects of psilocybin, destroamphetamine and placebo on performance on the Trail Making test, J. Clin. Psychol, 68 & Relation of repression-sensitization to philosophies of human nature, Psychol. Reports, 68. Address: 400 Yorktown Dr, Chapel Hill, N.C. 27514.

DUKER, DR. ABRAHAM G(ORDON), Hist, Sociol, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DUKER, DR. JAN D, b. Fairview, Okla. CLINICAL PSYCHOLOGY. B.S, Okla. State, 51; M.S, Minnesota, Minneapolis, 53, Ph.D.(psychol), 58. Instr. psychol, Okla. State, 51-53; psychologist, Vet. Admin. Hosp, Minneapolis, 58-60; pub. schs, Minn, 60-61; DIR. SCH. PSYCHOL. TRAINING PROG, UNIV. MINNESOTA, 61- Clin. psychologist. Consult, Pub. Schs. & Vet. Admin. Hosp, Minneapolis, 61- Psychol. Asn; Asn. Ed. Data Systs. School psychology and learning; personality development and assessment. Publ: Co-auth, A handbook for clinical and actuarial MMPI interpretation, Saunders, 65; Case history of three MMPI profile types, J. Consult. Psychol, 60. Address: School Psychology Training Program, 226 Child Development, University of Minnesota, Minneapolis, Minn. 55455.

DUKER, PROF. SAM, b. Denver, Colo, June 10, 05. PSYCHOLOGY. A.B, California, 28; J.D, Hastings Col. Law, 28; M.S, Okla. Agr. & Mech. Col, 47; Ph.D, Columbia, 52. Asst. prof. psychol, Okla. Agr. & Mech. Col, 47-50; ED, BROOKLYN COL, 50-61, assoc. prof, 61-66, PROF. & DIR. OFF. TESTING & RES, 66- Ed, J. Communication, 68-70. Psychol. Asn; Statist. Asn. Elementary school teaching methods; communication; desegration. Publ: Listening: readings, 65 & Listening bibliography, 68, Scarecrow; Public schools and religion, Harper, 65. Address: Dept. of Education, Brooklyn College, Brooklyn, N.Y. 11210.

DUKES, PROF. WILLIAM FRANKLIN, b. Belle Mina, Ala, Nov. 23, 18; m. 50. PSYCHOLOGY. A.B, Emory, 38; M.A, North Carolina, 42; Ph.D.(psychol), California, 52. Instr. PSYCHOL, Emory, 46-48, asst. prof, 50-53; CALIFORNIA, DAVIS, 53-57, assoc. prof, 57-63, PROF, 63-, ASSOC. DEAN COL. LETTERS & SCI, 60- Ford Found. fel, 52-53; Found. Econ. Ed. summer fel, 58. U.S.A, 42-46, Capt. AAAS; Psychol. Asn. Psychological theory, systems and values, experimental psychology. Publ: Psychological studies of values & N-1, 65, Psychol. Bull; co-auth, The effect of variation in specific stimuli on memory, Am. J. Psychol, 66. Address: Dept. of Psychology, University of California, Davis, Calif. 95616.

DULAN, PROF. HAROLD ANDREW, b. Bridgeton, N.J, June 28, 11; m; c. 3. FINANCE. B.B.A, Texas, 36, M.B.A, 37, Ph.D, 45. Assoc. prof. acct. & statist, Agr. & Mech. Col, Tex, 37-43; financial economist, Fed. Reserve Bank, Tex, 44-46; PROF. FINANCE & HEAD DEPT, ARKANSAS, 46- Investment counsr, 38-; vis. prof, Dallas Col, Southern Methodist, 45-46; state cmnr, Centennial of Statehood, 47; chmn. bd. & pres, Participating Annuity Life Ins. Co, 54-61, hon. chmn. bd, 61-66, v.pres. invest. & dir, 61-; dir, First Pyramid Life Ins. Co. Am, 61-66. Course consult. & instr, Eng. Mgt. & Sci. Defense Training, 43-45. Mem. exam. coun, Inst. Chartered Financial Anal, 67- Econ. Asn; Finance Asn; Inst. Cert. Pub. Acct. Investments; capital formation. Publ: Factors affecting the trend of the economy, Commercial & Financial Chronicle; co-auth, The variable annuity, Ark. Economist; Shifting from diversification to yield emphasis in common stock portfolios, Financial Analysts J, 7-8/65. Address: College of Business Administration, University of Arkansas, Fayetteville, Ark. 72701.

DULANY, PROF. DON E(DWIN), JR, b. Shreveport, La, Dec. 9, 28; m. 55. PSYCHOLOGY. A.B, Tennessee, 48; Ph.D, Michigan, 55. Res. assoc. Rockefeller study lang, Michigan, 51-52, instr. PSYCHOL, 52-54; lectr, exten, Fla. State, 55-56; asst. prof, ILLINOIS, URBANA, 56-59, assoc. prof, 59-63, PROF, 63- U.S.A, 54-56. Psychol. Asn. Language and communication; cognition theory. Publ: Co-ed, Readings in introductory psychology with a set of principles of general psychology & Contributions of modern psychology. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61801.

DULL, PROF. PAUL S(HIRLEY), b. Hillyard, Wash, Mar. 5, 11; m. 39; c. 2. POLITICAL SCIENCE, HISTORY. A.B, Washington (Seattle), 35, Ph.D.(polit. sci, Far East. studies), 40. Coun. Learned Socs. grant, Far East. Inst, Harvard, 40, Rockefeller fel, univ, 40-41; Hawaii, 41; res. analyst psychol. warfare, Off. War Info, Japan, 44-46; asst. prof, Washington (Seattle), 46; OREGON, 46-49, assoc. prof. polit. sci. & hist, 49-55, PROF, HIST, 55-, coordinator Far East. studies, 47-58. Ford Found. fel. & Soc. Sci. Res. Coun. grant, Japan, 52-53, Am. Coun. Learned Socs. & Soc. Sci. Res. Coun. res. grant, 59. Ersted award, 58. U.S.M.C.R, 41-44, Capt. Polit. Sci. Asn; Hist. Asn; Asn. Asian Studies. Political behavior in Japan. Address: Dept. of History, University of Oregon, Eugene, Ore. 97403.

DULLES, DR. ELEANOR L(ANSING), b. Watertown, N.Y, June 1, 95. ECONOMICS. A.B, Bryn Mawr Col, 17, A.M, 20; N.Y. Univ, 20-21; London, 21-22; Harvard, 23; M.A, Radcliffe Col, 24, Ph.D, 26; Paris, 25-27; LL.D, Wilson Col, 50, West. Col. for Women, 57; hon. Dr, Free Univ. Berlin, 57; LL.D, Mt Holyoke, 62; D.Litt, Duke, 65. Private personnel work, 20; asst, State Cmn. Old-Age Pensions, Mass, 24; mem. dept. econ, Simmons Col, 24-25, 27-38; res, France, Switz, Austria, Germany & Eng, 25-27, 30-32; teacher int. finance & indust. probs, Bryn Mawr Col, 28-30, 32-34; mem. indust. res. dept, Pennsylvania, 32-36; chief, div. finance & econ. studies, Soc. Security Bd, 36-42; economist, U.S. Dept. State, 42-45; financial attache, U.S. Legation, Austria, 45-49; spec. asst. to dir, Off. German Affairs, U.S. Dept. State, 49-60, bur. intel. & res, 60-62; spec. studies underdeveloped countries, Duke, 62-63; PROF. GOVT, GEORGETOWN, 63- Res. prin, For. Policy Center Strategic Studies, 64-67; res. assoc, Hoover Inst, 67-68. Distinguished achievement award, Radcliffe Col, 55; Schurz-Steuben plaque, Germany, 57; Reuter plaque, 59; distinguished serv. citation, Bryn Mawr Col. 60. Econ. Asn; Polit. Sci. Asn; Planning Asn. Financial and economic aspects of social security; the French franc; evolution or reparation ideas; German foreign policy. Publ: co-auth, Détente, cold war strategies in transition, Praeger, 65; Berlin, the wall is not forever, Univ. North Carolina, 67; American foreign policy in the making, Harper, 68. Address: 1114 Spring Hill Rd, McLean, Va. 22101.

DU MAS, PROF. FRANK M(AURICE), b. Edenwold, Tenn, Sept. 16, 18; m. 41; c. 5. PSYCHOLOGY. B.S. Virginia, 40, M.A, 41; Iowa, 47-48; Ph.D, Texas, 52. Instr. PSYCHOL, Denver, 45-47; assoc. prof, Fla. State, 48-49; res. proj. dir, Am. Coun. Ed, 49-50; asst. prof, La. State, 51-53; Mich. State, 53-54; Montana State, 54-56, assoc. prof, 56-58, prof, 58-63; PROF. & CHMN. DEPT, New Mexico State, 63-65; AUGUSTA STATE COL, 66- Psychol. Asn. Psychometric theory and methods; industrial and systematic psychology; philosophy; mathematical models and philosophical analysis of managerial phenomena. Publ: Manifest structure analysis; Coefficient of profile similarity; Theoretical management, Rocky Mt. Psychologist, 10/67. Address: Dept. of Psychology, Augusta State College, Augusta, Ga. 30904.

DUMLER, DR. MARVIN JACOB, b. Russell, Kans, Sept. 7, 21; m. 45; c. 5. EDUCATIONAL PSYCHOLOGY. B.A, Valparaiso, 43; M.S, Ft. Hays Kans. State Col, 47; Ed.D.(ed. psychol), Kansas, 55. Teacher, high sch, Kans, 46-52; asst. reading lab, Kansas, 52-54; head dept. ed, Bethany Col. (Kans), 54-58; ASSOC. PROF. PSYCHOL, CONCORDIA TEACHERS COL. (ILL), 58-, asst. registr, 59-65. Lectr, N.Park Col, 62-; Coordinator human develop, Chicago Consortium Teachers Corps, 67; summer mem. faculty, Colo. State, 54-57. Mem, Coun. Except. Children. U.S.N.R, 41-46, Lt.(jg). Psychol. Asn. Improvement of reading at the adult level; relationship between academic success in teacher education curriculum and personality factors. Publ: Teaching Johnny to like good literature, Lutheran Ed; Study of factors related to gains in the reading rate of college students trained with the tachistoscope and accelerator, J. Ed. Res. Address: Dept. of Education & Psychology, Concordia Teachers College, River Forest, Ill. 60305.

DUMOND, DR. DON E(DWARD), b. Childress, Tex, Mar. 23, 29; m. 50. ANTHROPOLOGY. B.A, New Mexico, 49; M.A, Mexico City Col, 57; univ. fel, Oregon, 59-61, Soc. Sci. Res. Coun. fel, 61-62, Ph.D.(anthrop), 62. Asst. prof. ANTHROP, OREGON, 62-66, ASSOC. PROF, 66- Co-prin. investr, Nat. Sci. Found. res. grants, Alaska, 63-68. U.S.A.F, 51-55, Res, 55-65, Capt. Soc. Am. Archaeol; fel. Anthrop. Asn. Prehistory of southwestern Alaska; cultural ecology; prehistory of Mexico. Publ: Auth, Swidden agriculture and the rise of Maya civilization, 61 & Population growth and cultural change, 65, Southwest. J. Anthrop; On Eskaleutian linguistics, archaeology, and prehistory, Am. Anthropologist, 65. Address: 1744 Moss St, Eugene, Ore. 97403.

DUNAIF, DR. SAMUEL LEWIS, b. New York, N.Y, Aug. 5, 24; m. 50; c. 4. CHILD PSYCHIATRY, PSYCHOANALYSIS. B.S, N.Y. Univ, 44, M.D, 47; cert. psychoanal. med, Columbia, 64. Clin. asst. prof. child psychiat, State Univ. N.Y. Downstate Med. Center, 58-65; ASST. ATTEND. PSYCHIATRIST, UNIV. HOSP. & ASST. CLIN. PROF. PSYCHIAT, SCH. MED, N.Y. UNIV. MED. CENTER, 65- Asst. vis. neuropsychiatrist, psychiat. div, Bellevue Hosp, New York, 65-; staff psychiatrist, family ment. health clin, Jewish Family Serv, N.Y, 64-66, supv. psychiatrist, 66- Psychiat. consult, Child Guid. League, N.Y, 59-60; bur. disability determinations, State Dept. Soc. Welfare, 61-; Vet. Admin, 61-; consult, joint res. proj. study fighting street gangs. New York City Youth Bd, Jewish Bd. Guardians & Community Ment. Health Bd, 62-64; President's Cmn. Law Enforcement & Adv. Justice, 66-67. Med.C. U.S.A, 50-51. Fel. Psychiat. Asn; Am. Med. Asn; Hist. Sci. Soc. Publ: Co-auth, Pseudopsychopathic schizophrenia, In: Psychiatry and the law. 55, A late adolescent sex offender: K study, Chap. II, In: The clinical application of projective drawings & Report to President's commission on law enforcement and advancement of justice, section on family processes relating to violence, Presidential commission report, Vol. I, 67. Address: 26 Oakwood Ave, White Plains, N.Y. 10605.

DUNBAR, CLARENCE PECKHAM, b. Washington, La, May 20, 07; m. 32. STATISTICS. B.S, La. State, 27, M.S, 35; fel, Oregon, 27-28; M.B.A, Harvard, 34. Geologist, serv. tech, Haitian Govt, Port-au-Prince, 28-30; paleontologist, mineral div, State Dept. Conserv, La, 31-32, chief statistician, 38-40; statistician & res. assoc, bur. ed. res, La. State, 40-43, dir. bur. ed. res. & dir. classified personnel, 43-47; DIR. DIV. INST. SERVS. & TREAS, UNIV. LOUISVILLE, 47- Asn. Petrol. Geol; Statist. Asn. Business and institutional management, statistics; mineral economics and statistics. Address: 3915 Napanee Rd, Louisville, Ky. 40207.

DUNBAR, PROF. DONALD STUART, b. Medford, Mass, May 7, 21. PSYCHOLOGY. B.A, Dartmouth Col, 44; M.A, Columbia, 47; Chicago, 49-50; Ph.D, Ohio State, 59. Instr. PSYCHOL, Hamilton Col, 47-49; asst. prof, SIMMONS COL, 53-62, ASSOC. PROF, 62- U.S.A, 43-46, Sgt. Psychol. Asn. Personality development. Address: Dept. of Psychology, Simmons College, Boston, Mass. 02115.

DUNBAR, PROF. GARY S(EAMANS), b. Clifton Springs, N.Y, June 8, 31; m. 53; c. 3. GEOGRAPHY. B.A, Virginia, 52, M.A, 53; Ph.D.(geog), La. State, 56. Asst. prof. GEOG, Virginia, 57-62, assoc. prof, 62-67, chmn. dept, 63-67; vis. assoc. prof, CALIFORNIA, LOS ANGELES, 67, ASSOC. PROF, 68- Fulbright res. scholar. cultural geog, Dacca, 62-63; vis. prof, Ahmadu Bello Univ, Nigeria, 65-67. Asn. Am. Geog; Am. Geog. Soc; Can. Asn. Geog; Hakluyt Soc; Hist. Sci. Soc. Cultural and historical geography; history of geography, discovery and exploration; geographical literature and bibliography; place-name studies; ethnohistory and ethnogeography. Publ: Historical geography of the North Carolina outer banks; ed, Geography in European and American universities, 1912, Dept. Geog, Univ. Virginia, 65. Address: Dept. of Geography, University of California, Los Angeles, Calif. 90024.

DUNBAR, PROF. J(OHN) O(RVAL), b. Monticello, Ind, Apr. 25, 20; m. 45; c. 2. AGRICULTURAL ECONOMICS. B.S, Purdue, 42, M.S, 48, Ph.D.(agr. econ), 54. Asst. to dean sch. agr, PURDUE, 46-47, PROF. AGR. ECON, GRAD. SCH. & EXTEN. ECONOMIST, 47-, ASST. DIR. COOP. EXTEN, 66- Consult, Brown & Co, Ill, 45; U.S. Agency Int. Develop, 62. Leader, Far East For. Aids Trade Seminar, U.S. Dept. Agr, 60; mem. prog. cmt, Nat. Agr. Policy Exten. Training Conf, 62. U.S.A.A.F, 42-46, Maj. Agr. Econ. Asn; Int. Asn. Agr. Econ. Agricultural policy and adjustment; price and income. Publ: Approaches for doing public affairs education; Foreign agricultural policy and Far East farm markets. In: Increasing understanding of public problems and policies; co-auth, Land-retirement and farm policy, Purdue Univ. Res. Bull. Address: Cooperative Extension Service, Purdue University, Lafayette, Ind. 47906.

DUNBAR, DR. LESLIE W(ALLACE), b. Lewisberg, W.Va, Jan. 27, 21; m. 42; c. 2. POLITICAL SCIENCE. A.M, Cornell, 46, Ph.D, 48. Instr, Emory, 48-49, asst. prof. polit. sci, 49-51; mem. staff, Atomic Energy Cmn, 51-54; Guggenheim fel, 54-55; asst. prof. polit. sci, Mt. Holyoke Col, 55-59; dir. res, South. Regional Coun, 59-61, exec. dir, 61-65; EXEC. DIR, FIELD FOUND, 65- Cook lectr, Michigan, 65. Political philosophy; liberalism; American constitutional law; racial relations. Publ: A republic of equals, Univ. Michigan, 66. Address: Field Foundation, 250 Park Ave, New York, N.Y. 10017.

DUNBAR, DEAN R(OBERT) S(TANDISH), JR, Animal Genetics, see 11th ed, Phys. & Biol. Vols.

DUNBAUGH, PROF. FRANK M(ONTGOMERY), b. Pueblo, Colo, Sept. 13, 95; m. 38; c. 2. MARKETING. A.B, Yale, 17; Toulouse, 19. Acct. exec, Albert Frank, Guenther Law, 34-39; v.pres, Colonial Navig. Co, 39-43; tourist counsr, Haiti, 48-49; assoc. prof. MKT, MIAMI (FLA), 55-65, EMER. ASSOC. PROF, 65- Lectr, Nat. Univ. Mexico, Buenos Aires & Univ. of the Republic, Uruguay, 62. Pres, Ambassadors Friendship, Inc. Consult, U.S. State Dept, 63; bus. admin. missions, Agency Int. Develop, Colombia, 63 & Peru, 64. U.S. del, World Fedn. Asns. for UN, Geneva, 54 & Warsaw, 60. U.S.A, 44, Lt. Col; Croix de Guerre. Mkt. Asn. International business. Publ: Going to Florida; Marketing in Latin America; Métodos creativos, Univ. of the Republic, Uruguay, 64. Address: 4300 Lennox Dr, Miami, Fla. 33133.

DUNCAN, PROF. ACHESON J(OHNSTON), b. Leonia, N.J, Sept. 24, 04; m. 59. STATISTICS. B.S, Princeton, 25, M.A, 27, Ph.D.(econ), 36. From instr. to asst. prof. econ, Princeton, 29-45; assoc. prof. STATIST, HOPKINS, 46-61, PROF, 61- U.S.A, 42-45. Fel. Statist. Asn; fel. Soc. Qual. Control (Shewhart medal, 64); Economet. Soc; Soc. Test. & Mat; Inst. Math. Statist; Biomet. Soc. Industrial statistics. Publ: Quality control and industrial statistics; co-auth, Elementary statistics and applications & Sampling statistics and applications. Address: Dept. of Operations Research & Industrial Engineering, Johns Hopkins University, Baltimore, Md. 21218.

DUNCAN, DR. BERTHA K(ATHLEEN), Psychol, see 10th ed, Soc. & Behav. Vols.

DUNCAN, DR. BEVERLY, b. Erie, Pa, Apr. 17, 29. HUMAN ECOLOGY. A.B, Pa. State, 49, A.M, 50; Ph.D.(sociol), Chicago, 57. Asst. pop. center, Univ. Chicago, 51-57, RES. ASSOC, 57-62; POP. STUDIES CENTER, UNIV. MICHIGAN, 62- Pop. Asn; Sociol. Asn. Demography. Co-auth, Housing a metropolis, Metropolis and region & Negro population of Chicago. Address: Population Studies Center, University of Michigan, 1225 S. University, Ann Arbor, Mich. 48104.

DUNCAN, PROF. CARL P(ORTER), b. Presque Isle, Maine, Dec. 27, 21; m. 48; PSYCHOLOGY. B.A, Maine, 42; M.A, Brown, 44, Ph.D.(psychol), 47. Lab. asst. elem. psychol, Maine, 42; instr. PSYCHOL, Brown, 43-45, asst, 45-47, asst. prof, NORTHWESTERN, 47-52, assoc. prof, 52-60, PROF, 60- U.S.A, 42-43. AAAS; Psychol. Asn. Experimental psychology. Publ: Retroactive effect of electroshock on learning, J. Comp. Physiol. Psychol; On the similarity between reactive inhibition and neural satiation. Am. J. Psychol;

Recent research on human problem solving, Psychol. Bull. Address: Dept. of Psychology, Northwestern University, Evanston, Ill. 60201.

DUNCAN, DR. DAVID B(EATTIE), Statist, see 11th ed, Phys. & Biol. Vols.

DUNCAN, PROF. DELBERT J(AMES), b.American Fork, Utah, June 8, 95; m. 29; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Utah, 18; M.B.A, Harvard, 21; Ph.D, Northwestern, 35. From instr. to assoc. prof, Colorado, 24-30; from asst. prof. to prof, Northwestern, 30-46; prof. mkt. & distribution, Cornell, 46-51; mkt, California, 51-53; prof. mkt. & dean sch. bus, Colorado, 53-56; PROF. MKT, CALIFORNIA, BERKELEY, 56- Lectr, bus. sch, Harvard, 37-39; dir, Wheatley-Jacobsen, Inc, 60-; Klein Inst. Aptitude Testing, 67- Ed, Trade Asn. Mgt. U.S.A.A.F, 18-19, 2nd Lt. Econ. Asn; Mkt. Asn.(mkt. achievement award, 63); Newcomen Soc. Relationships of government and business. Publ: Co-auth, Retailing: principles and methods, 7th ed, 67 & Marketing: principles and methods, 6th ed, 68, Irwin; auth, Purchasing officers—seekers of status, J. Purchasing, 8/66. Address: 2245 Eaton Ave, San Carlos, Calif. 94070.

DUNCAN, PROF. HUGH DALZIEL, b. Bo'ness, Scotland, Oct. 6, 09; nat; m. 40. SOCIOLOGY. A.B, Drake, 31; A.M, Chicago, 33, Marshall Field fel, 38, Ph.D, 48. Soc. Sci. Res. Coun. fel, Chicago, 49, lectr. sociol, 50-52; vis. prof, SOUTHERN ILLINOIS, 64-65, PROF. SOCIOL. & ENG, 65- Lectr, Northwestern, 49-52; vis. prof, Carleton Col, 61; Rice, 62; fel, Graham Found. Adv. Studies in Fine Arts, 62. Mil. Intel, 42-46, Capt. Fel. Sociol. Asn; Am. Studies Asn. Communication and social order; structure and function of the symbolic act; reciprocal relationship between art and society, especially language and architecture. Publ: Communication and social order; Culture and democracy: the struggle for form in society and architecture in Chicago and the Middle West during the life and times of Louis H. Sullivan, Bedminster, 65; Symbols in society: Axiomatic, theoretical, and methodological propositions on the social function of symbols, Oxford Univ, 68. Address: R.R. 2, Cobden, Ill. 62920.

DUNCAN, DR. JAMES P(AUL), b. St. Charles, Va, Jan. 19, 37; m. 55; c. 2. HIGHER EDUCATION. A.B, Indiana, 59, M.S, 61, Ed.D.(higher ed. & ed. res), 65. Asst. head counsr, Indiana, 59-61, head counsr, 62-65; ASSOC. PROF. ED. & ASST. DEAN STUDENTS, OREGON STATE, 65- Instnl. consult. res. in student housing & the training & selection of staff, 65- U.S.A, 61-62, Res, 62- Sociol. Asn; Personnel & Guid. Asn. Attitude scale; rating scale construction. Publ: Construction of a forced-choice rating scale for student evaluation of residence hall counselors, In: Studies in Education, Indiana Univ, 65; Rating scale for student evaluation of residence hall counselors, Personnel & Guid, 1/67. Address: 3125 Taft Ave, Corvallis, Ore. 97330.

DUNCAN, PROF. J(OHN) PAUL, b. Indianapolis, Ind, Aug. 15, 09. POLITICAL SCIENCE. A.B, Butler, 32; A.M, Indiana, 38, Ph.D, 43; Chicago, 39-40. Instr. polit. sci, Akron, 42-45; asst. prof, Okla. Agr. & Mech. Col, 45-46; assoc. prof. govt, OKLAHOMA, 46-57, prof, 57-67, BOYD PROF. POLIT. SCI, 67- Fulbright lectr, Ibrahim Univ, Egypt, 52-53. Political theory; Middle Eastern government; jurisprudence. Publ: Normative importance of the concept of interest, Okla. Law Rev, 8/67. Address: Dept. of Political Science, University of Oklahoma, Norman, Okla. 73069.

DUNCAN, PROF. JULIAN S(MITH), Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

DUNCAN, DR. MELBA HURD, b. Madison, Minn, June 22, 06; m. 43. SPEECH PATHOLOGY, PSYCHOLOGY. B.A, Minnesota, 27, M.A, 31, Ph.D, 42; summer, California, 32. Asst. speech, Minnesota, 27-29, instr, 29-42; from instr. to asst. prof, Brooklyn Col, 43-50; SPEECH PATHOLOGIST, 50-Summer instr, Colorado, 39-40, lectr, Colo, Springs Center, 60- Consult, El Paso County Ment. Eval. Clin, 62-67. Fel. AAAS; Speech & Hearing Asn; Psychol. Asn; N.Y. Acad. Sci. Voice and personality; psychological aspects of speech problems; psychological assessment of neurologically disabled children and adults; exceptional child. Publ: Co-auth, Fundamentals of speech workbook; auth, Children of foreign tongues, In: Speech problems of children. Address: 1219 La Veta Way, Colorado Springs, Colo. 80906.

DUNCAN, PROF. OTIS DUDLEY, b. Nocona, Tex, Dec. 2, 21. SOCIOLOGY. A.B, La. State, 41; A.M, Minnesota, 42; Ph.D, Chicago, 49. Asst. prof. sociol. & rural sociol, Pa. State Col, 48-50; SOCIOL, Wisconsin, 50-51; Chicago, 51-62; PROF, MICHIGAN, 62- U.S.A, 42-46. Sociol. Asn; Statist. Asn; Pop. Asn. Population; social stratification; human ecology. Publ: Co-auth, Social characteristics of urban and rural communities; Negro population of Chicago; The American occupational structure, Wiley, 67. Address: Dept. of Sociology, University of Michigan, Ann Arbor, Mich. 48104.

DUNCAN, PROF. O(TIS) D(URANT), b. Mt. Pleasant, Tex, Nov. 20, 97; m. 20; c. 3. RURAL SOCIOLOGY. A.B, E.Tex. State Teachers Col, 24; fel, Agr. & Mech. Col, Tex, 25-26, M.S, 26; Minnesota, 26-28; Ph.D, La. State, 41. Supt. & prin, schs, Tex, 19-25; instr. sociol, Minnesota, 26-28; La. State, 28-29; assoc. prof. rural sociol, OKLA. STATE, 29-36, prof. & head dept. SOCIOL. & RURAL LIFE 36-63, EMER. PROF, 63- Lectr, Minnesota, 35; res. assoc, La. State, 40-41; vis. prof, Garrett Biblical Inst, summer, 58; lectr, Wisconsin, 63. Dir, South Regional Coun, 44-45. Mem, Int. Inst. Sociol. Sociol. Asn; Rural Sociol. Soc.(v.pres, 45, pres, 52-53). Social research on health; sociological studies on farm tenancy; rural standards of living. Address: Dept. of Sociology, Oklahoma State University, Stillwater, Okla. 74074.

DUNCAN, DR. PAM, b. Oshkosh, Wis, Aug. 16, 38. PSYCHOLOGY. B.A, Wis. State, Oshkosh, 58; M.A, Chicago. 61; Ph.D.(psychol), Wisconsin, Madison, 68. Psychologist, div. corrections, Wisconsin, 62-66; asst. prof. PSYCHOL, Milton Col, 66-67; from instr. to ASST. PROF, VICTORIA (B.C), 67- Parental attitudes and interactions of parents of juvenile delinquents, emotionally disturbed children and normals of both sexes; attitudes held by children toward their parents. Address: Dept. of Psychology, University of Victoria, Victoria, B.C, Can.

DUNCAN, DR. STARKEY (DAVIS), JR, b. San Antonio, Tex, Aug. 24, 35; m. 60; c. 2. PSYCHOLOGY. B.A, Vanderbilt, 57; U.S. Pub. Health Serv. trainee, Chicago, 62, Nat. Inst. Ment. Health fel, 63, Ph.D.(psychol), 65. Nat. Inst. Ment. Health fel. anthrop, CHICAGO, 65-67, ASST. PROF. PSYCHOL, 67- U.S.N, 57-59, Lt.(jg). Psychol. Asn. Nonverbal communication: paralanguage, body motion and proxemics; psychotherapy. Publ: Therapists' paralanguage in peak and poor psychotherapy hours, J. Abnorm. Psychol, 68; Vocal emphasis in experimenters' instruction reading as unintended determinant of subjects' responses, Lang. & Speech, 68. Address: Dept. of Psychology, University of Chicago, 5846 University Ave, Chicago, Ill. 60637.

DUNCAN, DR. WALTER RAYMOND, b. Ancon, C.Z, Mar. 14, 36; m. 61; c. 2. POLITICAL SCIENCE. A.B, California, Riverside, 59; M.A, Tufts, 62, M.A.L.D, 63, Ph.D.(int. rels), 64. Asst. GOVT, Tufts, 62-64; instr, BOSTON, 64-65, ASST. PROF, 65-, ASST. TO V.PRES. ACAD.AFFAIRS, 66-, researcher, grad. sch, 66-68. Intel.C, U.S.A, 59-61. Polit. Sci. Asn. Relationships between education and political development in Latin America; Cuban communism in the Western Hemisphere; Chilean political development; the Mexican Revolution, 1910-1917. Publ: The Mexican constitution of 1917: its political and social background, Inter-Am. Law Rev, 7-12/63; Havana and the Chilean communist party, Probs. of Communism, Spanish ed, 7-8/67; Chilean Christian democracy, Current Hist, 11/67. Address: Dept. of Government, Boston University, 236 Bay State Rd, Boston, Mass. 02215.

DUNCANSON, DR. JAMES PRESTON, b. Pueblo, Colo, Nov. 16, 35; m. 61. PSYCHOLOGY. B.A, Arizona, 61; Ed. Testing Serv. fel, Princeton, 61-63, Nat. Inst. Ment. Health fel, 63-64, M.A. & Ph.D.(psychol), 64. Trainee psychol, Vet. Admin. Hosp, Perry Point, Md, 64-65; MEM. TECH. STAFF, BELL TEL. LABS, INC, 65- U.S.N, 54-58, Res, 58-62. Psychol. Asn; Psychomet. Soc. Subjective measurement; human factors in design and communication. Publ: Learning and measured abilities, J. Ed. Psychol, 66. Address: Bell Telephone Labs, Inc, Holmdel, N.J. 07733.

DUNDES, DR. ALAN, b. New York, N.Y, Sept. 8, 34; m. 58; c. 3. ANTHROPOLOGY. B.A, Yale, 55, Ford Found. fel, 57-58, M.A.T, 58; univ. fel, Indiana, 60-61, Nat. Sci. Found. fel, 61-62, Ph.D.(folklore), 62. Instr. Eng, Kansas, 62-63; asst. prof. anthrop, CALIFORNIA, BERKELEY, 63-65, assoc. prof. 65-66, ANTHROP. & FOLKLORE, 66-68, PROF, 68- Ford Found. univ. faculty personnel res. grant, 63; Am. Coun. Learned Socs. grant-in-aid, 64-65; Univ. California summer faculty fel, 65; Guggenheim fel. & Fulbright travel grant, 66-67. U.S.N.R, 55-57, Lt. Comdr. Folklore Soc; fel. Anthrop. Asn. Analyzing various forms of folklore, myths, riddles and games, from structural, functional and psychological perspectives to study worldview, ethos and symbolism. Publ: The morphology of North American Indian folktales, Helsinki: Academia Scientiarum Fennica, 64; The study of folklore, 65 & Every man his way: readings in cultural anthropology, 68, Prentice-Hall. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

DUNFORD, DEAN RALPH E(MERSON), b. Amanda, Ohio, Dec. 17, 96; m. 26; c. 2. PSYCHOLOGY. B.A, Ohio State, 24, M.A, 25, Ph.D.(psychol), 29. Instr. psychol, Ohio State, 24-26; asst. prof, Tennessee, 26-28, assoc. prof. 28-31, prof, 31-45; head employ. officer, Tenn. Valley Authority, 40-44; PROF. PSYCHOL. & DEAN OF STUDENTS, TENNESSEE, 45- Psychol. Asn. Psychophysics; auditory, visual and cutaneous discrimination; aviation psychology. Address: Office of the Dean of Students, University of Tennessee, Knoxville, Tenn. 37916.

DUNGER, PROF. GEORGE A, b. Germany, Apr. 24, 08; nat; m. 36; c. 2. CULTURAL ANTHROPOLOGY. M.A, Hartford Sem. Found, 46, Ph.D, 50. Field supt, Cameroons Baptist Mission, W.Africa, 42-46, supvr. schs, 46-48; asst. cultural anthrop, Hartford Sem. Found, 49-50; prof. missiology & dir. lib. arts studies, Barrington Col, 50-51; PROF. MISSIOLOGY, N.AM. BAPTIST SEM, 51- Vis. prof, Univ. Col. Ghana, 48-49; guest lectr, Wichita & Dana Col, 61; Theol. Ed. Staff Inst, Johannesburg, S.Africa, 64; vis. prof, Ndu Baptist Theol. Training Centre, Cameroon, W.Africa, 65; guest lectr, missions acad, Univ. Hamburg, summer, 65. Field observer, Cameroon, W.Africa, 58-59 & Can. Indians, 61. Fel. AAAS; fel. Anthrop. Asn; fel. Am. Geog. Soc; fel. African Studies Asn; Soc. Sci. Study Relig. Cultural rapproachement through the study of societal-cultural dynamics and application of multilateral ethical values; development of a field theory which includes value systems of varied cultures. Address: North American Baptist Seminary, 1605 S. Euclid Ave, Sioux Falls, S.Dak. 57105.

DUNHAM, DR. CHARLES V, b. Meadville, Pa, Oct. 11, 17; m. 42; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Bucknell, 39, M.A, 41; Minnesota, 41-42; Ph.D.(ed. psychol), Texas, Austin, 47. Asst. to dean of men, Bucknell, 39-41; admin. asst. student testing bur. Minnesota, 41-42; testing & counseling bur, Texas, Austin, 42-43, asst. to dean student life, 43-46, dean of men, 46-48; psychologist to mgt, ROHRER, HIBLER & REPLOGLE, 48-52, managing partner, 52-65, GEN. PARTNER, 65-66, IN CHARGE W.COAST REGION, 66- Psychol. Asn. Evaluation and development of key executives in business and industrial organizations. Publ: Co-auth, Managers for tomorrow, New Am. Library, 65. Address: 29 Nora Way, Atherton, Calif. 94025.

DUNHAM, PROF. DOUGLAS, b. Wessington Springs, S.Dak, July 25, 16; m. 40; c. 2. GEOGRAPHY, HISTORY. A.B, Yankton Col, 38; M.A, Michigan, 41, Ph.D.(hist), 50. Instr. SOC. SCI, Norfolk Jr. Col, 38-43; MICH. STATE, 47-51, asst. prof, 51-54, assoc. prof, 54-57, PROF, 57-, CHMN. DEPT, 60-A.U.S, 43-46, M/Sgt. Econ. Asn; Sociol. Asn. Social sciences; United States history; education. Publ: Co-auth, Modern society, Prentice-Hall, 54; auth, Objectivity, methodology and the value system of social science, Soc. Sci, 51; co-auth, The international dimension, Univ. Col. Quart, 64. Address: Dept. of Social Science, Michigan State University, East Lansing, Mich. 48824.

DUNHAM, PROF. H(ENRY) WARREN, b. Omaha, Nebr, Jan. 24, 06; m. 42; c. 1. SOCIOLOGY. Ph.B, Chicago, 29, A.M, 35, Ph.D, 41. Instr. SOCIOL, WAYNE STATE, 40-43, asst. prof, 43-48, assoc. prof, 48-54, PROF, 54-,

acting chmn. dept, 47-49. Franklin Mem. lectr, 55-56. Res. supvr, soc. sci. res. cmt, Chicago, 43-44, 45-46; spec. lectr, Howard, 44-45; dir. hosp. study, State Dept. Ment. Disease, Ohio, 46; Fulbright lectr, Amsterdam, 56-57 & Ainshams, Cairo, 66-67; dir. epidemiol. lab, Lafayette Clin, 59-; Nat. Inst. Ment. Health, res. grant, 59-63. Spec. res. consult, Nat. Inst. Ment. Health, 49-; res. consult, subcmt. resources, Gov. Cmn. Sex Deviants, Mich, 50. Info. res. analyst, Off. War Info, D.C, 44-45. AAAS; Sociol. Asn; Pub. Health Asn. Social psychiatry and psychology; sociological theory. Publ: Sociological theory and mental disorder; co-auth, Ment. disorders in urban areas; auth, Community and schizophrenia, Wayne State, 65. Address: Dept. of Sociology & Anthropology, Wayne State University, Detroit, Mich. 48202.

DUNHAM, DR. PHILIP J, b. Wooster, Ohio, Dec. 4, 40; m. 62; c. 2. PSYCHOLOGY. B.A, DePauw, 62; M.A, Missouri, 64, Ph.D.(psychol), 66. ASST. PROF. PSYCHOL, DALHOUSIE, 66- AAAS; Psychol. Asn. Animal learning and motivation; chemical basis of memory. Address: Dept. of Psychology, Dalhousie University, Halifax, N.S, Can.

DUNHAM, DR. RALPH E(MERSON), b. Wichita, Kans, Aug. 29, 16; m. 47; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Kans. State Teachers Col, Emporia, 38, M.S, 42; Ed.D.(ed. psychol), California, 50. Teacher, State Indust. Reformatory, Kans, 39-40; teacher & asst. prin, high sch, 40-41, teacher, 41-42, 46; prof. ed, Blue Mt. Col, 48-50; assoc. prof, Middle Tenn State Col, 50-56; supvry. ed. specialist, U.S. Naval Personnel Res. Field Activity, D.C, 56-58, supvry. personnel res. specialist, 58-59; chief test & eval. unit, training develop. sect, training div, Fed. Aviation Agency, 59-60; personnel statistician & prog. specialist, div. ed. statist, U.S. OFF. ED, 60-66, HIGHER ED. RES. COORDINATOR, BUR. HIGHER ED, 66-; PROF. ED, UNIV. COL, MARYLAND, 56- Vis. prof, Stephen F. Austin State Col, 50. U.S.A, 42-46, Res, 46-, Lt. Col. Psychol. Asn; Nat. Coun. Measurement in Ed. Recidivism in correctional institutions; training, personnel and psychological research. Publ: Auth, Engineering degrees and enrollments, 1963-1964, 65, co-auth, Faculty and other professional staff in institutions of higher education, 1963-1964, 65 & Teaching faculty in universities and 4-year colleges, spring 1963, 67, U.S. Off. Ed. Govt. Printing Off. Address: 2113 White Oaks Dr. Alexandria, Va. 22306.

DUNHAM, DR. RICHARD MARSHALL, b. San Diego, Calif, Feb. 13, 29. PSYCHOLOGY. A.B, South Carolina, 50; Ph.D.(clin. psychol), Duke, 59. Intern psychol, med. center, Duke, 57, res. asst, univ, 57-58, res. assoc, 59-61; gen. psychologist, manned spacecraft center, NASA, 61-65; asst. prof, Houston, 62-65; ASSOC. PROF. PSYCHOL. & HUMAN DEVELOP, FLA. STATE, 65- Chief psychologist, Dorothea Dix Hosp, Raleigh, N.C, 58-61; N.C. State & U.S. Pub. Health Serv. res. grants, 60-61; U.S. Dept. Health, Ed. & Welfare res. grant, Greater Houston, Action Youth Proj, Univ. Houston, 62-63. U.S.N.R. 47-66, Comdr. AAAS; Psychol. Asn; Acad. Polit. & Soc. Sci. Publ: Co-auth. Measurement of family relationships and their effects, Arch. Gen. Psychiat, 7/63; Ethnic factors in prison sentences for murder in Texas, 1924-1962, Proc. Southwest. Sociol. Asn, 65; auth, Ex post facto reconstruction of conditioning schedules in family interaction, Psychiat. Res. Report, 20, 2/66. Address: Institute of Human Development, Florida State University, Tallahassee, Fla. 32306.

DUNHAM, DR. ROBERT E, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

DUNHAM, PROF. WALLACE CLAYTON, b. Passaic, N.J, Apr. 27, 30; m. 53; c. 3. AGRICULTURAL ECONOMICS. B.S, Vermont, 52; M.S, Ohio State, 56. Mkt. specialist, mkt. ed. prog, New Eng. Exten. Serv, 56-59; exten. mkt. specialist, Ohio State, 59-61; asst. prof. resource econ, New Hampshire, 61-66; ASSOC. PROF. AGR. ECON, MAINE, 66- U.S.A, 53-55. Agr. Econ. Asn. Publ: Co-auth, Blueberry product analysis in New England retail food stores, 4/67 & auth, Meat shopping habits and attitudes of consumers in Portland, Maine, 9/67, Maine, Agr. Exp. Sta. Address: Dept. of Agricultural Economics, University of Maine, Orono, Maine 04473.

DUNKELBERGER, DR. JOHN E, b. Sunbury, Pa, Feb. 11, 35; m. 57; c. 2. SOCIOLOGY. A.B, Franklin & Marshall Col, 57; M.S, Pa. State, 59; Ph.D. (sociol), Miss. State, 65. Instr. RURAL SOCIOL, Miss. State, 59-62; asst. prof, AUBURN, 62-67, ASSOC. PROF, 67- Consult, Ala. Tech. Assistance Corp, 65-67; counsr. intern prog, South. Regional Ed. Bd, 67- Mem, South. Regional Res. Tech. Cmt, 59-67; Ala. Community & Tech. Servs. Agency, 66-67; South. Rural Sociol. Cmt, 67- Sociol. Asn; Rural Sociol. Soc. Low-income families; school age youth; determining aspirational goals and measuring the intensity of goal desire, particularly among adults; multidimensional typologies for classifying categories of rural residents. Publ: Co-auth, Classifying families in low-income rural areas, Sociologia, 6/60; Attitudes toward occupational change as an indicator of prospects for adjustment, ASAW Proc, 2/64; Attitudes as a measure of job mobility or financial aspiration, South. Regional Agr. Exp. Sta. Bull, 12/65. Address: Dept. of Agricultural Economics & Rural Sociology, Auburn University, Auburn, Ala. 36830.

DUNKERLEY, MOTHER DOROTHEA, b. Ennis, Tex, Nov. 19, 97. PSYCHOLOGY. A.B, Col. New Rochelle, 19; M.A, Fordham, 34, hon. L.H.D, 54; Ph.D. (psychol), Catholic Univ, 40. Instr. ed. psychol, COL. NEW ROCHELLE, 29-37, assoc. prof. psychol. & asst. dean, 40-49, dean, 49-50, pres, 50-57, PROF. PSYCHOL, 57-, DIR. INSTNL. RES, 67- Psychol. Asn; Soc. Res. Child Develop. Social psychology. Publ: Statistical study of leadership among college women. Address: College of New Rochelle, New Rochelle, N.Y. 10801.

DUNKMAN, PROF. WILLIAM E(DWARD), b. Cincinnati, Ohio, Feb. 3, 03; m. 33; c. 2. ECONOMICS. Com.E, Cincinnati, 26; M.S, Columbia, 28, Ph.D, 33. Instr, Washington & Lee, 26-27; asst, Nat. Bur. Econ. Res, 28; lectr, Columbia, 29-33; asst. prof. ECON, ROCHESTER, 33-39, assoc. prof, 39-47, PROF, 47-, chmn. dept. econ. & bus. admin, 48-56. Fulbright lectr, Tohuku, Japan, 56-57. Price exec, export-import br, Off. Price Admin, 43-44; chief div. res. & statist, State Banking Dept, N.Y, 44-46; prin. economist, N.Y. State Joint Legislative Cmt. Interstate Coop, 47-50; econ. consult, Security Trust Co, N.Y, 51-66. Mem. tech. adv. cmt, Corp. Bond Proj, Nat. Bur. Econ. Res, 44-52; tech. adv. cmt, life insurance asset eval. proj, Univ. Wisconsin, 57-58. Econ. Asn; Finance Asn. Money; credit; business cycles. Publ: Money, credit and banking, Random, 68; Credit worthiness and the changing business risk, Bull. Robert Morris Asn, 65; College courses in banking and finance, Am. Bankers Asn, 66. Address: Dept. of Economics, University of Rochester, Rochester, N.Y. 14627.

DUNLAP, DR. AURIE NICHOLS, b. New York, N.Y, Sept. 4, 09; m. 32. INTERNATIONAL RELATIONS. A.B, Union (N.Y), 39; A.M, Columbia, 31; Ph.D, 55. Teacher, high schs, N.J, 32-36; Mem. High Sch, N.Y, 36-37; asst. prof. hist. & govt, Assoc. Cols. Upper New York, 47-48; INT. RELS, LEHIGH, 48-57, ASSOC. PROF, 57- Am. Soc. Int. Law. Soviet diplomacy; international law; polycentric trends in Communist, anti-Communist and uncommitted blocs; teaching of international relations in secondary schools. Publ: The teaching of international relations in the secondary school, Lehigh, 65; Polycentrism, Union Col. Symp. winter 66-67. Address: Dept. of International Relations, Lehigh University, Bethlehem, Pa. 18015.

DUNLAP, DR. HELEN L(ESLIE), b. Hay Springs, Nebr, Mar. 9, 98. PSYCHOLOGY. A.B, Iowa State Teachers Col, 24; fel, Smith Col, 24-25, M.A, 25; Ed.D, Columbia, 43. Rural supvr, pub. schs, N.C, 25-32; supvr. critic, Ohio, 32-36; prof. ed, Georgia, 36-37; dir. provate elem. sch, Maracaibo, Venezuela, 39-40; prof. ed, Idaho State Teachers Col, 40-41; lab. worker, Ford Motor Co, Mich, 42-44; dir. psychol. serv, Pub. Schs, 44-63; supvr. psychologist, Milwaukee County Schs, 64-65; SCH. PSYCHOLOGIST, BROWN DEER PUB. SCHS, 65- Fel. Psychol. Asn; fel. Int. Coun. Psychol. Education; improving school psychological programs; child growth and development; mental health education for teachers and parents. Publ: Mental health primer; First reader in mental health. Address: 1717 E. Newton Ave, Shorewood, Wis. 53211.

DUNLAP, DR. JACK W(ILBUR), b. White Eagle, Okla, Aug. 11, 02; m. 23; c. 1. STATISTICS, PSYCHOLOGY. B.S, Kansas State, 24, M.S, 26, LL.D, 60; Ph.D.(psychol), Columbia, 31. Dean men, Territorial Norm. Sch, Honolulu, 27-30; asst, Columbia, 30-31; assoc. prof. ed, grad. sch, Fordham, 31-37; Rochester, 37-45; dir. div. biomech, Psychol. Corp, 46-48; pres, DUNLAP & ASSOCS, INC, 48-66, CHMN. BD, 48- Dir, Indust. Data Systs, Inc, Hamar Lasars, Inc. & Rixon Electronics, Inc. Past ed, J. Ed. Psychol, Personnel Psychol, J. Exp. Ed. & Psychometrica. Mem, President's Cmt. Indust. Safety; dir. res. cmt. pilot selection & training, Nat. Res. Coun, 41-42. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N, 42-46, Res, 46-, Capt. Statist. Asn; fel. Psychol. Asn; fel. Opers. Res. Soc; Human Factors Soc; Inst. Mgt. Sci. Human factors in equipment design; operations research. Publ: Computation of descriptive statistics; Workbook in statistical method; Handbook of applied psychology. Address: Dunlap & Associates, Inc, 1 Parkland Dr, Darien, Conn. 06820.

DUNLAP, DR. JACK W(ILLIA)M, b. Manhattan, Kans, Dec. 19, 24; m. 47; c. 2. PSYCHOLOGY. B.S, Kansas State, 49, M.S, 50; fel, Purdue, 52-55, Ph.D, 55. Res. assoc. psychol, sch. pub. health, Harvard, 50-52; asst. v.pres, DUNLAP & ASSOCS, INC, 55-63, v.pres, 63-66, SR. V.PRES, 66- U.S.A, 43-45, Res, 45-60, 1st Lt. Psychol. Asn; Human Factors Soc. Experimental psychology; human factors engineering and research; systems analysis and evaluation; measurement of human performance in hostile environments. Publ: Effect of color in direct mail advertising, J. Appl. Psychol; Human factors in the design of vehicle cab areas; Engineering psychology and human factors in design, Electro-Tech. Address: 7 Sweet Briar Lane, Stamford, Conn. 06905.

DUNLAP, DR. NAOMI GIBSON, b. Meridian, Tex, Oct. 10, 11; m. 32; c. 1. PSYCHOLOGY. B.A, Baylor, 49; M.A, Texas, 50, Ph.D, 61. Instr. psychol, Baylor, 48-51, head resident & counsr, Scottish Rite Dorm, Austin, 52-54; dir. soc. serv. dept, Brackenridge Hosp, 54-58; founder & dir. rehab. center alcoholic women, Silver Hills Ranch, Inc, Marble Falls, 58-59; psychologist, Vet. Admin. Hosp, Austin, Tex, 61-65; CLIN. PSYCHOLOGIST, hosp. improv. proj. grant, Austin State Sch, 65-67; VET. ADMIN. HOSP, TEMPLE, 67- Psychol. Asn. Alcoholism in women; antecedents and correlates of remission in middle-class members of Alcoholics Anonymous. Address: Route 5, Box 140-X, Austin, Tex. 78704.

DUNLAP, DR. RALPH L(IVINGSTON), b. Iowa City, Iowa, July 12, 18; m. 41; c. 2. CLINICAL & CHILD PSYCHOLOGY. A.B, Antioch Col, 49; U.S. Pub. Health Serv. fel, Ohio State, 50-51, 52-53, M.A, 51, Ph.D.(psychol), 53. Instr. psychol, Ohio State, 53-54; from instr. to asst. prof. med. psychol, sch. med, Maryland, 54-57; asst. prof. psychol. in psychiat. & chief child psychol. unit, North Carolina, 57-62, assoc. prof. psychol, 62-65; CHIEF PSYCHOLOGIST, dept. psychiat, South. Calif. Permanente Med. Group, 65-66; MENT. HEALTH DEVELOP. CENTER, 66- Chief psychologist, clin. for children, Ment. Hyg. Soc, 54-57; mem. vis. faculty, Syracuse, summer, 61. Consult, childrens psychiat. unit, Murdoch Sch, Butner, N.C, 60-64; Wyoming State Hosp, summer, 64. U.S.A, 42-46, Sgt. Psychol. Asn. Parent-child relationships; social learnings in personality development; psychotherapy of children and parents. Publ: Some effects of social reinforcement on changes in attractiveness of children's goal objects, Am. Psychologist; co-auth, Conditioning imagery, J. Exp. Psychol; co-auth, Young children and the Watts revolt, Community Ment. Health J, 6/68. Address: 470 W. Ave. 43, Los Angeles, Calif. 90065.

DUNLEVY, DR. GEORGE P(ATRICK), JR, Psychol, see 10th ed, Soc. & Behav. Vols.

DUNLOP, DR. GEORGE MURRAY, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

DUNLOP, PROF. JOHN T(HOMAS), b. Diamond Springs, Calif, July 5, 14. ECONOMICS. A.B, California, 35, Ph.D, 39; Soc. Sci. Res. Coun. fel, Cambridge, 37-38. Acting instr, Stanford, 36-37; instr. & tutor ECON, HARVARD, 38-40, faculty instr. & tutor, 40-45, assoc. prof, 45-50, PROF, 50- Guggenheim fel, 52-53. Consult, Off. Econ. Stabilization & Off. War Mobilization & Reconversion, 45-47; arbitrator. Assoc. economist, bur. labor

statist, U.S. Dept. Labor, 39; secy. cost-price cmt, Nat. Bur. Econ. Res, 41-42; br. chief res. & statist. & v.chmn, Boston regional br, Nat. War Labor Bd, 43-45. Mem. Atomic Energy Labor Res. Panel, 48-53; impartial chmn, Nat. Joint Bd. Settlement Juris. Disputes, 48-57, appeals bd. chmn, 65-; bd. inquiry, Bituminous Coal Dispute, 50; pub. mem, Wage Stabilization Bd, 50-52; mem. adv. cmt. labor mgt. rels. in atomic energy installations, U.S. Secy. Labor, 54-57; admin. cmt, Construct. Indust. Joint Conf, 59; mem. President's R.R. Cmn, 61; President's Missile Sites Labor Cmn, 61-67. Econ. Asn; Economet. Soc; Indust. Rel. Res. Asn.(pres, 60); Acad. Arbit. Publ: Industrial relations systems; co-auth, Industrialism and industrial man; ed, Potentials of the American economy, selected essays of Sumner H. Slichter. Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

DUNLOP, DR. KATHLEEN E, Mod. Econ. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DUNN, PROF. ALBERT H(OWARD), b. Omaha, Nebr, Apr. 23, 21; m. 46; c. 3. MARKETING. B.A, Amherst Col, 43; M.B.A, Harvard, 47, D.C.S.(bus, mkt), 55. Instr. MKT, sch. bus, Syracuse, 47-48; asst. prof, bus. sch, Harvard, 48-55; PROF, SCH. BUS, DELAWARE, 55- Prof, Mgt. Training Inst, Lausanne, Switz, 59-60; teacher, mgt. progs, Ohio Univ. & Univ. Texas, 60-; instr, numerous co. & indust. mgt. training progs, 60- Consult, several co, 60- Sig.C, 42-45, Sgt. Sales & Mkt. Exec. Int. Creativity in management decision making, sales management training and development. Publ: Creative selling and sales management, Sales & Mkt. Exec. Int, 68; Get the sales manager out of selling!, Sales Mgt. Mag, 3/67. Address: College of Business & Economics, University of Delaware, Newark, Del. 19711.

DUNN, DR. BRUCE E(VANS), b. Jan. 22, 32; U.S. citizen; m. 67; c. 2. PSYCHOLOGY. B.S, Northwestern, 54; M.S, Wisconsin, 57, Ph.D.(psychol), 60. Asst. prof. PSYCHOL, Marshall, 60-63; Wisconsin, 63-65; CALGARY, 65-67, ASSOC. PROF, 67- Nat. Sci. Found. res. grants, 62-65; Nat. Res. Coun. res. grant, 66-67; Can. Defense Res. Bd. grant, 68. Am. Psychol. Asn; Can. Psychol. Asn. Slant perception; auditory perception and experimental design. Publ: Relative height and relative sizes as monocular depth cues in the trapezoid, Perceptual & Motor Skills, 66; Some problems with the experimental method, Psychol. Reports, 67; co-auth, Relationship of certainty to amount of perceived slant, Can. J. Psychol, 67. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

DUNN, DR. DELMER, b. Sentinel, Okla, Oct. 31, 41. POLITICAL SCIENCE. B.A, Okla. State, 63; M.S, Wisconsin, 64, Ph.D.(polit. sci), 67. ASST. PROF. POLIT. SCI, GEORGIA, 67- Am. Polit. Sci. Asn. Congressional fel, 68-69. Polit. Sci. Asn. Policy making process; press and government. Address: Dept. of Political Science, University of Georgia, Athens, Ga. 30601.

DUNN, DR. EDGAR S(TREETER), JR, b. Fla, Aug. 21, 21; m. 47; c. 2. ECONOMICS. B.S, Florida, 43, M.A, 48; Gen. Ed. Bd. fel, Harvard, 48-49, M.A, 49, Ph.D, 51. Indust. economist, Tenn. Valley Authority, 50; assoc. prof. econ, Florida, 50-51, prof, 51-62; dir. off. econ. anal, U.S. Dept. Commerce, 62-63, dep. asst. secy. econ. affairs, 63-65; RES. ASSOC. ECON, RESOURCES FOR THE FUTURE INC, 65-, res. economist, 55-56. Econ. consult, OEEC, 58-59; U.S. Bur. Budget, 65-66. Ed, South. Econ. J, 57-60. Mem, U.S. Bur. Census adv. cmt. small area data, 65- U.S.A, 39-43. Econ. Asn; Regional Sci. Asn.(v.pres, 67-); Statist. Asn. Location of economic activity; regional analysis and economic development; economic theory. Publ: Co-auth, Regions, resources and economic growth; auth, Location of agricultural production; Review of proposals for a national data center, Govt. Printing Off, 66. Address: 7615 Range Rd, Alexandria, Va. 22306.

DUNN, DR. FLOYD E, Neurol. Psychiat, see 11th ed, Phys. & Biol. Vols.

DUNN, DR. FRANCES E(LLIOT), b. Melrose, Mass, June 15, 07. EDUCATIONAL PSYCHOLOGY. A.B, Brown, 38, A.M, 42; Ed.D, Harvard, 55. Asst. to dir. ed. measurement, BROWN, 41-56, instr. ED. PSYCHOL, 49-55, asst. prof, 55-58, ASSOC. PROF, 58-, dir. col. res. center, 61-64. Regional rep, Proj. Talent, 60- Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed; Asn. Measurement & Eval. Guid. Educational measurement; guidance and student personnel; prediction and selection concentration fields and profession. Address: 35 Nichols St, Cranston, R.I. 02920.

DUNN, DR. HALBERT LOUIS, b. New Paris, Ohio, May 17, 96; m. 20, 41; c. 3. STATISTICS. B.A, Minnesota, 19, M.A, 21, M.D, 22, Ph.D.(anat), 23. Instr. anat, Minnesota, 22-23; asst. med, Presby. Hosp, New York, 23-24; fel, Mayo Clin, 24-25; assoc. prof. biometry & vital statist, Hopkins, 25-29; head dept. statist, Mayo Clin. & assoc. prof. med. statist, Minnesota, 29-32; prof. med. statist. & dir. hosp, Minnesota, 32-35; chief vital statist. div, U.S. Bur. Census, 35-46; chief Nat. Off. Vital Statist, U.S. Pub. Health Serv, 46-60, spec. asst. aging, 60-61; PRIVATE CONSULT. & LECTR, HIGH-LEVEL WELLNESS, 61- Secy, temporary organizing cmt, Inter-Am. Statist. Inst, 39-41, mem, 40-, secy-gen, 41-52, consult, exec. cmt, 52-54, hon. pres, 55; mem, expert cmt. health statist, WHO, 49-51, adv. panel experts in health statist, 51-61; from v.chmn. to mem, U.S. Nat. Cmt. Vital & Health Statist, 49-60; chmn, U.S. Delegation to Decennial Conf. for Revision of Int. List of Causes of Death, France, 38, 48 & 55; del, various statist. congs, 36-60. Med.C, U.S.A, 18-19, Res, 27-37, Capt. Fel. AAAS; fel. Statist. Asn; fel. Pub. Health Asn; Pop. Asn; Int. Statist. Inst. Public health; medicine; biology; organization and administration; human relations; social welfare. Publ: Your world and mine; High-level wellness. Address: 9130 Riverside Dr, Washington, D.C. 20022.

DUNN, HUGH E(DWARD), S.J, b. Schenectady, N.Y, June 12, 13. SOCIOLOGY. Ph.D.(sociol), Catholic Univ, 56. Asst. prof. sociol, DETROIT, 53-56, V.PRES, 56- Sociol. Asn; Soc. Study Social Probs. Family life. Publ: Self-Ideal of Selected Married Catholics. Address: University of Detroit, Detroit, Mich. 48221.

DUNN, DR. JAMES ALAN, b. Knoxville, Tenn, Mar. 23, 33; m. 58; c. 2. PSYCHOLOGY. Ph.D.(psychol), Michigan, 62. ASST. PROF. ed. & clin. psychol, Wayne State, 62-64; PSYCHOL. & ED. PSYCHOL, MICHIGAN, 64- Vis. fel. develop. psychol, Harvard, 67-68. Consult, U.S. Off. Ed, 65-67. U.S.A, 55-57, 1st Lt. Psychol. Asn. Cognitive functioning of children. Address: Dept. of Educational Psychology, University of Michigan, Ann Arbor, Mich 48104.

DUNN, DR. LE ROY, b. Brooklyn, N.Y, Mar. 25, 25; m. 53; c. 4. ECONOMICS. B.S, American Univ, 49; bursary, London Sch. Econ, 53-55, Ph.D, 56. Asst. consumer credit, bd. governors, Fed. Res. Syst, 50-51; asst, London Sch. Econ, 52-54; instr. ECON, Brown, 56-57; asst. prof, TRINITY COL. (CONN), 57-62, ASSOC. PROF, 62- Guest res. assoc, Inst. Econ. & Soc. Res, York, Eng, 66. Summers, Ford Found. res. grant, 59, Danforth Found. res. grant, 60-61; sr. res. officer, Int. Revenue Serv, 62 & Gen. Elec. Found. faculty grant, Univ. Chicago, 63. U.S.M.C, 42-46. Am. Econ. Asn; Royal Econ. Soc. Public finance; history of British inheritance taxation; economics of health; tax treatment of charitable foundations; history of economic thought. Publ: The conservative origins of progressive taxation: history of British inheritance taxation, Weidenfeld & Nicholson, 68; contrib, Growth in government expenditure in Great Britain, 1890-1955. Address: Dept. of Economics, Trinity College, Hartford, Conn. 06106.

DUNN, PROF. LLOYD M, b. Can, Mar. 27, 17; m. 40; c. 1. SPECIAL EDUCATION. B.Ed, Saskatchewan, 49, M.Ed, 50; Ph.D, Illinois, 53. Researcher, U.S. Off. Ed, 52-53; PROF. SPEC. ED, GEORGE PEABODY COL, 53-, DIR. INST. MENT. RETARDATION & INTELLECTUAL DEVELOP, 63-, chmn. dept. spec. ed, 53-63. Vis. prof, Hawaii, 66-67. Consult, South. Regional Ed. Bd, 55; chmn. behav. res. task force, President's Panel Ment. Retardation; mem. int. awards cmt, Joseph P. Kennedy Found; Gov. Cmt. Employ. Handicapped. R.C.A.F, 42-46. Coun. Except. Children (past pres, ed, Res. Monogr. Series, 60-64); Psychol. Asn; Ed. Res. Asn. Reading processes of mentally retarded; language development of the disadvantaged. Publ: Peabody picture vocabulary test, Nat. Found. Ed. Res, 62; ed, Exceptional children in schools, Holt, 63; co-auth, Peabody language development kits, Am. Guid. Serv, 65-68. Address: Institute on Mental Retardation & Intellectual Development, George Peabody College, Nashville, Tenn. 37203.

DUNN, DR. MELVIN HARPER, Psychol, see 10th ed, Soc. & Behav. Vols.

DUNN, DR. ROBERT EUGENE, b. Kansas City, Kans, Oct. 1, 28; m. 57; c. 2. PSYCHOLOGY. B.A, Univ. Kansas City, 53, M.A, 58; Ph.D.(psychol), Washington (Seattle), 65. With Boeing Co, 61; trainee human res, U.S. Vet. Admin. Hosp, Tacoma, Wash, 61-63; instr. PSYCHOL, Olympic Col, 63-64; asst. prof, Nebraska, 64-66; ASSOC. PROF, WHITMAN COL, 66- U.S.N, 46-47. Social personality; perception of emotion; behavior change; human maturation; group dynamics; body image; body motion dynamics; attitude measurement; perceptual processes. Publ: Co-auth, Identification, opposite-ness, authoritarianism self-esteem, and birth order, Psychol. Monogr, 62; auth, Competition and non-competition in relation to satisfaction and feelings toward own-group and non-group members, J. Soc. Psychol, 66; Do you agree and disagree? That is the question, Nebr. Acad. Sci, 66. Address: Dept. of Psychology, Whitman College, Walla Walla, Wash. 99362.

DUNN, PROF. ROY SYLVAN, b. Nixon, Tex, Mar. 29, 21; m. 47; c. 3. SOCIOLOGY. B.A, Texas, 48, M.A, 51; American Univ, 50. Arch. asst, State Arch, Tex, 47-49, asst. state archivist, 49-50, coordinator reorgn. & renovation, State Library, 50, state librn, 51, records exam, 52-53, auditor, State Comptroller, 53-56; archivist Southwest Collection, TEX. TECH. COL, 56-63, asst. prof. sociol, 57-63, ASSOC. PROF. SOCIOL. & DIR. SOUTHWEST COLLECTION, 63- H. Bailey Carroll award, 67. U.S.A.A.F, 43-46, S/Sgt. Soc. Archivists; Sociol. Asn. Social history. Publ: Weather changes as factors in social change, Proc. Southwest Sociol. Soc; The Southwest Collection at Texas Tech, Am. Archivist, 7/65; The Knights of the Golden Circle in Texas, 1860-1861, Southwest. Hist. Quart, 4/67. Address: Dept. of Sociology, Texas Technological University, Lubbock, Tex. 79409.

DUNN, DR. STEPHEN PORTER, b. Boston, Mass, Mar. 24, 28; m. 56. ANTHROPOLOGY. B.A, Columbia, 50, Ph.D.(anthrop), 59. RES. ASSOC. SOVIET ANTHROP, Inst. Contemporary Russian Studies, Fordham, 59-64; inst. int. studies, Center Slavic Studies, CALIFORNIA, BERKELEY, 64-66, CENTER SLAVIC STUDIES, 67- Wenner-Gren Found. Anthrop. Res. summer travel grant, Moscow, 64 & res. grant to aid in pub. of Introduction to Soviet ethnography, 66-; Am. Coun. Learned Socs-Soc. Sci. Res. Coun. res. grant, 66-67. Ed, Soviet sociology & Soviet anthropology and archeology, Int. Arts & Sci, 62- Fel. Anthrop. Asn; Asn. Adv. Slavic Studies. Study of directed culture change in the Soviet Union; theory of peasant culture, economic and technical change; comparative religion. Publ: Cultural processes in the Baltic area under Soviet rule, Univ. California, 66; co-auth, Peasants of central Russia, Holt, 67; co-auth, Soviet regime and native culture in central Asia and Kazakhstan: the major peoples, Current Anthrop, 6/67. Address: 32 Highgate Rd, Berkeley, Calif. 94707.

DUNN, DR. WESLEY A, b. Winchester, Ind, Dec. 20, 22; m. 52; c. 4. PSYCHOLOGY. A.B, Harvard, 47; M.A, Purdue, 48, Ph.D, 51. Chief psychologist, Marion County Child Guid. Clin, 51-64; CONSULT. PSYCHOLOGIST, 59- Private practice. Consult, Marion County Juvenile Court, 58-; Ind. Methodists Childrens Home, 64- U.S.A.A.F, 42-46, Lt. Psychol. Asn. Emotional and behavior problems of children; gifted children; marriage counseling. Address: 3602 N. Meridian St, Indianapolis, Ind. 46208.

DUNN, PROF. WILLIAM BROTHERS, b. Greenville, Tex, Feb. 11, 19; m. 57. GOVERNMENT. B.A, Chicago, 39, Ph.D, 60; M.A, Colorado, 41. Officer, U.S. For. Serv, 47-54; from instr. to ASSOC. PROF. govt, E.Tex. State Col, 57-64; POLIT. SCI, STATE UNIV. N.Y. COL. NEW PALTZ, 64- Mem. nat. cmt, Am. Friends Vietnam. U.S.A, 41-45, Capt. Polit. Sci. Asn; Asn. Asian Studies. U.S. policy toward south and southeast Asia. Address: P.O. Box 593, New Paltz, N.Y. 12561.

DUNN, DR. WILLIAM L(AWRENCE), JR, b. Richmond, Va, Apr. 19, 24; m. 48; c. 2. PSYCHOLOGY. B.S, Lynchburg Col, 47; Ph.D, Duke, 53. Trainee

clin. psychol, Vet. Admin, 48-52; lab. asst. test construct. & photog, Psychomet. Lab, N.C, 52-53; clin. psychologist, Vet. Admin. Hosp, Gulfport, Miss, 53, Richmond, Va, 54-61; STAFF ASST. TO DIR, RES. LAB, PHILIP-MORRIS, INC, 61- Mem. Governor's Bd. Psychol. Exam, State of Va, 61-U.S.N.R, 43-46, Lt.(jg). Psychol. Asn; Asn. Pub. Opinion Res. Perception in schizophrenia; experimental design; management evaluation and development; market research. Address: 4614 King William Rd, Richmond, Va. 23225.

DUNN, PROF. WILLIS J, b. Three Rivers, Mich, July 30, 10; m. 35; c. 2. SOCIOLOGY. A.B, Asbury Col, 35; M.A, Mich. State, 37, Ph.D. 55. Prof. sociol. & dir. pub. rels, Taylor, 45-51; PROF. SOCIOL, Nebr. Wesleyan, 51-54; TAMPA, 58-, DIR. GUID. & PLACEMENT, 65-, admissions & registr, 59-65. Pastor, Methodist Churches, 35-58; on TV weekly prog, The World Today, WLCY, Fla, 65- Sociol. Soc. Publ: Radio sermons. Address: Dept. of Sociology, University of Tampa, Tampa, Fla. 33606.

DUNNELL, DR. ROBERT C(HESTER), b. Wheeling, W. Va, Dec. 4, 42; m. 66. ANTHROPOLOGY. B.A, Kentucky, 64; Ph.D.(anthrop), Yale, 67. ASST. PROF. ANTHROP, WASHINGTON (SEATTLE), 67- Anthrop. Asn; Soc. Am. Archaeol. Formal classification in prehistory; prehistory of the Appalachians. Address: Dept. of Anthropology, University of Washington, Seattle, Wash. 98105.

DUNNER, PROF. JOSEPH, b. Fuerth, Germany, May 10, 08. POLITICAL SCIENCE. Fel, Int. Inst. Soc. Res, 30-35; A.M, Frankfurt, 32; Ph.D, Basel, 34. Fel, Brookings Inst, 36-37; consult. refugee probs, Am. Joint Distribution Cmt, 37-42; res. assoc, N.Y. Univ, 42-43; instr, sch. overseas admin, Harvard, 43-44; chief intel. sect, Off. War Info, London, Eng, 44-45, press control sect, info. control. div, Munich, Germany, 45-46; chmn. dept. polit. sci. & dir. inst. int. affairs, Grinnell Col, 46-58, PROF. govt, 46-64; POLIT. SCI. & INT. LAW, YESHIVA, 64- Vis. prof, Hebrew Univ, Israel, 50; Fulbright prof, Freiburg, 63-64; vis. prof, Cologne, 67. Polit. Sci. Asn; Am. Soc. Int. Law, Acad. Polit. & Soc. Sci. International law and relations; political theory; Republic of Israel; constitutions. Publ: Baruch Spinoza and Western democracy; Dictionary of political science; Handbook of world history, concepts and issues. Address: Dept. of Political Science, Yeshiva University, Amsterdam Ave. & 186th St, New York, N.Y. 10033.

DUNNETTE, PROF. MARVIN D(ALE), b. Austin, Minn, Sept. 30, 26; m. 46; c. 2. PSYCHOLOGY. B.Ch.E, Minnesota, 48, M.A, 51, Ph.D.(psychol), 54. Asst. prof. PSYCHOL, MINNESOTA, MINNEAPOLIS, 54-59, assoc. prof, 59-62, PROF, 62- Vis. assoc. prof, California, Berkeley, 61-62; Ford Found. faculty fel, 64-65. Adv, Minn. Mining. & Mfg. Co, 55-59; pres, Personnel Decisions, Inc, 66- U.S.M.C, 44-46. AAAS; Psychol. Asn. Industrial and organizational psychology; conservation and utilization of human resources; personnel evaluation and measurement; differential psychology; development of accurate techniques of interpersonal perception. Publ: Co-auth, Psychology applied to industry, Appleton, 65; auth, Personnel selection and placement, Wadsworth, 66; Fads, fashions and folderol in psychology, Am. Psychologist, 66. Address: Dept. of Psychology, 208 Psychology Bldg, University of Minnesota, Minneapolis, Minn. 55455.

DUNNING, PROF. R(OBERT) WILLIAM, b. Toronto, Ont, Aug. 10, 18; m. 48. SOCIAL ANTHROPOLOGY. B.A, Toronto, 52, M.A, 53; Soc. Sci. Res. Coun. Can. fel, Cambridge, 55, Ph.D, 56. Lectr. ANTHROP, Toronto, 56-59; assoc. prof, Manitoba, 59-61; British Columbia, 61-66; PROF, TORONTO, 66- R.C.A.F, 41-45. Social anthropological theory; Indians of Canada and America; small group theory, particularly of Indians and Eskimos. Publ: Social and economic change among northern Ojibwa. Address: Dept. of Anthropology, University of Toronto, Toronto, Ont, Can.

DUNN-RANKIN, DR. PETER, b. Hackensack, N.J, Nov. 16, 29; m. 56; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Fla. State, 53, M.S, 54, Ed.D, 65; M.A, La. State, 63. Teacher, pub. schs, Fla, 58-63; evaluator, Proj. English, Fla. State, 63-65; ASST. PROF. ED. PSYCHOL. & ASST. RESEARCHER, HAWAII, 65- U.S.N, 54-57, Lt.(jg). Ed. Res. Asn; Statist. Asn; Psychomet. Soc. Application of scaling methods in the areas of perception as it relates to reading and in the motivation of young children. Publ: The true distribution of the range of rank totals in the two-way classification, Psychometrika, 66; An IMB 7040 program for constructing scales from paired comparisons, Behav. Sci, 68; Co-auth, Congruency factors related to visual confusion of letters, Perceptual & Motor Skills, 68. Address: Dept. of Educational Psychology, University of Hawaii, 1776 University Ave, Honolulu, Hawaii 96822.

DUNPHY, DR. LORETTA MARY, b. Creston, Iowa, Jan. 8, 14. ECONOMICS. B.C.S, Drake, 48; M.A, Catholic Univ, 50, Ph.D.(econ), 56; California, Berkeley, 66-67. Instr. econ, Dunbarton Col, 51-52; res. analyst. res. proj, grad. sch, Georgetown, 52; instr. econ. & finance, Duquesne, 55-56; asst. prof. econ, Drake, 56-59; bus. economist, Far East sect, measurement & develop. br, allowance div, off. personnel, U.S. Dept. State, 59-61; res. economist, Republican Nat. Cmt, D.C, 61; asst. prof. ECON, North. State Teachers Col, 61-62; ASSOC. PROF, Incarnate Word Col, 62-66; SOUTH ALABAMA, 67- W.A.C, 43-46, 1st Lt. Econ. Asn. History of economic thought. Publ: Simon Newcomb: his contribution to economic thought, Catholic Univ, 56. Address: 3854-E Rue Maison, Mobile, Ala. 36608.

DUNSDON, PROF. ROLLIN O(REL), b. Edgeley, N.Dak, Mar. 31, 18: m. 42; c. 4. ECONOMICS. B.S, North Dakota, 41; M.S, Oregon State, 48; Ph.D, Wisconsin, 54. Economist, agr. mkt. serv, U.S. Dept. Agr, 54-55; asst. prof. agr. econ, Purdue, 55-59; dir. mgt. res, animal health div, Schering Corp, 59-61; dir. mkt, Am. Sci. Labs, 61-62; asst. prof. bus. mgt, Illinois, Urbana, 62-65; PROF. ECON. & BUS. ADMIN. & CHMN. DEPT, UNIV. OF THE PACIFIC, 65- U.S.N.R, 41-62, Lt. Econ. Asn; Mkt. Asn. Business and government; managerial economics; marketing; economic theory. Address: Dept. of Economics & Business Administration, University of the Pacific, Stockton, Calif. 95204.

DUNSTAN, PROF. MARY F, b. Wilkes-Barre, Pa, Aug. 21, 09. MARKETING, ECONOMICS. A.B, Fla. State, 31; M.S, N.Y. Univ, 42, Earhart Found. fel, Alabama, 62, Ph.D.(mkt, econ), 66. Off. mgr. & acct, 31-41; instr, Williams Mem. Inst, 42-45; Russell Sage Col, 45-47; Packard Jr. Col, 47-50; asst. prof, Miss. Southern Col, 50-55; assoc. prof, Shepherd Col, 55-61; PROF, Ala. Col, 63-68; MKT, MIDDLE TENN. STATE, 68- Mkt. Asn; Econ. Asn. Publ: Co-auth, Principles of marketing, 61 & Principles of advertising, 63, Pitman. Address: Dept. of Business Administration, Middle Tennessee State University, Murfreesboro, Tenn. 37130.

DUNSTONE, DR. JOHN J, b. Scranton, Pa, Apr. 23, 39; m. 61; c. 2. EXPERIMENTAL PSYCHOLOGY. B.S, Pa. State, 61; M.S, Massachusetts, 64, Ph.D.(psychol), 66. Res. asst. exp. psychol, Massachusetts, 61-65; ASST. PROF. PSYCHOL, Valparaiso, 65-66; SCRANTON, 66- AAAS; Psychol. Asn. Psychophysiology of vestibular apparatus; operant conditioning. Publ: Co-auth, Types of objective vestibulograms, 64 & Effects of some personality variables on electrial vestibular stimulation, 64, Perceptual & Motor Skills. Address: Dept. of Psychology, University of Scranton, Scranton, Pa. 18510.

DUNSWORTH, DR. FRANCIS ALFRED, b. Halifax, N.S, Feb. 27, 20; m. 44; c. 10. PSYCHIATRY. M.D.C.M, Dalhousie, 43. Asst. prof. PSYCHIAT, DALHOUSIE, 48-53, dir. child guid. center, 48-66, ASSOC. PROF, 53-; HEAD DEPT. PSYCHIAT, HALIFAX INFIRMARY, 62- Consult, Ment. Health Serv, P.E.I, 49-63; Dept. Vet. Affairs Hosp, Halifax, 49-62; Halifax Tuberc. Hosp, 51-55; Can. Forces Hosp, Halifax, 52-64. R.C.A.M.C, 43-46, Capt. Am. Psychiat. Asn; Orthopsychiat. Asn; Can. Med. Asn; Can. Psychiat. Asn. (pres, 63). Address: Dept. of Psychiatry, Dalhousie University, Halifax, N.S, Can.

DUPERTUIS, DR. C(LARENCE) WESLEY, Anthrop, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

DUPONT, PROF. HENRY JOHN, b. Iron Mountain, Mich, Aug. 21, 21. PSYCHOLOGY. B.S, Lawrence Col, 49; M.S, Delaware, 50; Ph.D, Peabody Col, 59. Instr. human develop, psychol. servs. center, Delaware, 50-51; psychologist, State Dept. Ed, Tenn, 53-54; pub. schs, Tenn, 54-56; acting dir. Harriett Cohn Guid. Center, 58-61, exec. dir, 61-62; clin. psychologist, Southeast Wyoming Ment. Health Center, Cheyenne, 62-63; dir. div. ment. health, Wyoming Dept. Pub. Health, 63-66; coordinator prog. eval. & psychol. serv, div. ment. hyg, Dept. Health & Soc. Serv, Madison, Wis, 66-67; PROF. PSYCHOL, WIS. STATE, EAU CLAIRE, 67- Consult, Clark County Ment. Hosp, Owen, Wis. & North. Wis. Colony & Training Sch, Chippewa Falls, 67-Mem. Coun. Except. Children. U.S.M.C, 43-46. Psychol. Asn; Asn. Ment. Deficiency. Children's affective and cognitive processes; behavior disorders in school children and the mentally retarded; systems theory and mental health-mental retardation program. Publ: The emotionally disturbed child in the schools, Holt, 68; Emotional maladjustment and special education; Treatment of delayed speech by client-centered therapy. Address: 211 Garfield Ave, Eau Claire, Wis. 54701.

DUPRE, DR. J(OSEPH) STEFAN, b. Quebec, Nov. 3, 36. PUBLIC ADMINISTRATION & FINANCE. B.A, Ottawa, 55; fel. & A.M, Harvard, 57, Ph.D, 58; fel, Brookings Inst, 57-58. Instr. govt, Harvard, 58-61, asst. prof. govt. & secy, grad. sch. pub. admin, 61-63; assoc. prof. polit. econ, TORONTO, 63-66, PROF. POLIT. ECON. & DIR. CENTRE URBAN & COMMUNITY STUDIES, 66- Ed. dir, Ont. Cmt. Taxation, 64-67; mem, Ont. Civil Serv. Arbit. Bd, 64-; Sci. Coun—Can. Coun. Study Group on Fed. Support Univ. Res, 68-Can. Polit. Sci. Asn.(secy-treas, 65-66); Inst. Pub. Admin. Can.(v.pres, 67-68). Financing and administration of scientific research; federal, state and local intergovernmental relations. Publ: Co-auth, Science and the nation: policy and politics; contrib, Area and power; auth, Intergovernmental finance in Ontario, Queen's Printer, Toronto, 68. Address: Dept. of Political Economy, University of Toronto, Toronto, Ont, Can.

DUPRE, DR. VLADIMIR A(NDERSON), b. Prague, Czech, Sept. 22, 20; m. 44; c. 6. SOCIOLOGY. A.B, Oberlin Col, 43; Ph.D.(human develop), Chicago, 58. From asst. prof. to prof. psychol. & sociol, Hanover Col, 49-60; assoc. prof. psychol. Grinnell Col, 60-65; DIR. MIDWEST GROUP HUMAN RESOURCES DIV, INST. APPL. BEHAV. SCI, NAT. TRAINING LABS, 65-; ASST. DIR. DIV. PSYCHOL, GREATER KANSAS CITY MENT. HEALTH FOUND, 65- Fel. psychother, Merrill Palmer Inst, 64-65; assoc. prof, human rels. dept, Kansas, 65-; clin. assoc. prof, Kansas City Med. Sch, Missouri, 65- Consult, Wadsworth Vet. Admin. Hosp, 66-; med. sch, Kansas, 67- Fel. Inst. Appl. Behav. Sci, Nat. Training Labs. Fel. Psychol. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues; Pub. Health Asn; Int. Coun. Psychologist. Social psychology; small group research; human relations training and consulting. Address: Midwest Group for Human Resources, 2 West 40th St, Kansas City, Mo. 64111.

DUPREE, PROF. A(NDERSON) HUNTER, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DUPREE, PROF. LOUIS, b. Greenville, N.C, Aug. 23, 25; m. 49; c. 3. ANTHROPOLOGY. B.A, Harvard, 50, Thaw fel, 51-52, univ. fel, 52-53, M.A, 53, Ph.D.(anthrop), 55. Archaeologist, Am. Mus. Natural Hist. expeds, Afghanistan, 49, 50-51; field asst. mus, Univ. Pennsylvania, Iran, 51; asst. to dean scholars. & admissions, Harvard, 53; specialist Mid. East. Anthrop, res. studies inst, Arctic-desert-tropic info. center, Air Univ, 53-54, res. & ed. specialist inst. & asst. prof. Mid. East. studies, univ, 54-57; assoc. prof. ANTHROP, PA. STATE, 57-65, ADJ. PROF, 65-; ASSOC, AM. UNIVS. FIELD STAFF, 59-; RES. ASSOC, AM. MUS. NATURAL HIST, 59- Vis. prof, Kabul Univ, Afghanistan, 62-63; lectr, For. Serv. Inst, 67. For. affairs consult, spec. opers. res. off, Wash, D.C, 58, 60-61; area consult, U.S. Agency Int. Develop, Pakistan, Jan-Feb, 63 & Jan, 66; consult, Esso, Pakistan, 66-; dir. area studies, Peace Corps, Afghanistan, Apr-May, 66. Mem. Japanese archaeol. exhib. Afghanist, Cmn. Royal Govt. Afghanistan, 63. Meritorious civilian serv. commendation, U.S. Air Force, 57. U.S.N.R, 43-44; U.S.A, 44-46, Res, 46-, Capt. Fel. AAAS; fel. Anthrop. Asn; Oriental Soc; Ethnol. Soc; fel. Soc. Appl. Anthrop; Mid. East Inst; Archaeol. Inst; Asia Soc; Royal Cent. Asia Soc; French Prehist. Soc. Asian archaeology and ethnology; small group studies; especially the Islamic world; Indo-European speaking Muslim areas of the Middle East and South Asia. Publ: Shamshir Ghar: Historic cave site of Kandahar Province, Afghanistan, 58 & Deh Morasi Ghundai: a chalcolithic site in south-central Afghanistan, 63, Am. Mus. Natural Hist; Aq Kupruk: a town in north Afghanistan, Am. Univs.

Field Staff, 66. Address: American Universities Field Staff, 366 Madison Ave, New York, N.Y. 10017.

DUPUIS, PROF. ADRIAN M, b. Menominee, Mich, Oct. 6, 19; m. 48; c. 3. EDUCATIONAL PHILOSOPHY. A.B, Catholic Univ, 47, M.A, 48; Ph.D.(ed. psychol, philos), Minnesota, 55. Prof. ed. psychol. & philos, Col. St. Teresa, 55-61; assoc. prof. found. ed. & asst. chmn. dept. ed, MARQUETTE, 61-65, PROF. FOUND, 65- Vis. lectr, Minnesota, 56-57; mem. proj, U.S. Off. Ed, 64-67. U.S.A, 44-46. Philos. Ed. Soc. Relation of statistics and logic; scientific method and logic; relation of psychology and natural sciences. Publ: Co-auth, American education, 63 & Philosophy and education, 64, Bruce; auth, Philosophy of education in historical perspective, Rand McNally, 66. Address: College of Liberal Arts, Marquette University, Milwaukee, Wis. 53233.

DUPUY, COL. TREVOR NEVITT, U.S.A.(RET), Mil. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DUR, PROF. PHILIP F, b. St. Louis, Mo, June 30, 14; m. 42; c. 6. POLITICAL SCIENCE. A.B, Harvard, 35, Ph.D.(hist), 41. Am. consul, For. Serv. U.S, Panama, 54-55; exec. officer, Am. Consulate Gen, Japan, 55-58; Pub. affairs adv, bur. Far East. affairs, U.S. Dept. State, 58-61; Am. consul, For. Serv. U.S, Japan, 61-65; JEFFERSON CAFFERY PROF. POLIT. SCI, SOUTHWESTERN LOUISIANA, 65- U.S.N.R, 42-46, Lt. Comdr. Polit. Sci. Asn; Int. Studies Asn. Public administration in France under the Ancien regime; American diplomatic history and foreign policy administration since World War I. Publ: The right of taxation in the political theory of the French religious wars, J. Mod. Hist, XVII: 289-303; The Colon free zone, Export Trade & Shipper, 55. Address: Dept. of Political Science, University of Southwestern Louisiana, Lafayette, La. 70501.

DURAND, PROF. DAVID, b. Ithaca, N.Y, Oct. 6, 12; m. 54. STATISTICS, FINANCE. B.A, Cornell, 34; M.A, Columbia , 38, Ph.D.(econ, statist), 41. Asst, Nat. Bur. Econ. Res, 38-41, res. staff, 46-54; res. assoc. INDUST. MGT, MASS. INST. TECH, 54-55, assoc. prof, 55-58, PROF, 58- Mem, Inst. Adv. Study, 41-42. Consult, Twentieth Century Fund, 48-51; Nat. Bur. Econ. Res, 55-56. U.S.N.R, 42-45, Lt. Econ. Asn; Finance Asn; Soc. Qual. Control; fel. Statist. Asn; Biomet. Soc; Inst. Math. Statist; Int. Asn. Statist. Phys. Sci. Statistical methodology; application of statistical methods to financial research. Publ: Risk elements in consumer installment financing; basic yields of corporate bonds, 1900-1942; Bank stocks and the analysis of covariance, Econometrica. Address: Alfred P. Sloan School of Management, Room 52-567, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

DURAND, PROF. JOHN D(ANA), b. Washington, D.C, July 24, 13; m. 42; c. 1. DEMOGRAPHY. A.B, Cornell, 33; Ph.D.(econ), Princeton, 39. Mem. staff, pop. div, U.S. Bur. Census, 39-46; asst. dir. in charge pop, bur. soc. affairs, UN, 47-65; PROF. ECON. & SOCIOL, PENNSYLVANIA, 65- Pop. Asn.(pres, 61); Int. Statist. Inst; Int. Union Sci. Study of Pop. Publ: Labor force in the United States, 1890-1960. Address: Dept. of Economics & Sociology, University of Pennsylvania, Philadelphia, Pa. 19104.

DURAND, PROF. LOYAL, JR, b. Milwaukee, Wis, July 12, 02; m. 29; c. 4. GEOGRAPHY, PHYSIOGRAPHY. A.B, Wisconsin, 24, A.M, 25, Ph.D.(geog), 30. Instr. GEOG, Wisconsin, 24-30, asst. prof, 30-44; assoc. prof, TENNESSEE, 44-46, PROF, 46- Land planning consult, Nat. Resources Bd, 34-35; land analyst, Nat. Resources Planning Bd, Wis, 41. Mem. Nat. Acad. Sci-Nat. Res. Coun. Adv. Cmt, Off. Naval Res, 51-54. With Off. Strategic Serv, 44. Asn. Am. Geog.(v.pres, 51); Nat. Coun. Geog. Ed.(2nd v.pres, 48, v.pres, 49, pres, 50). Regional and economic geography. Publ: World geography; Economic geography; co-auth, Living as world neighbors. Address: 3940 Wilani Rd, Knoxville, Tenn. 37919.

DURAND, ROBERT Y(ALE), b. Washington, D.C, Jan. 5, 12; m. 47; c. 1. BUSINESS ADMINISTRATION. A.B, Oberlin Col, 34; M.B.A, Harvard, 41. Asst. economist, War Prod. Bd, 41-42; asst. prof. econ, sch. bus. admin, North Carolina, 46-51; instr. bus. admin, overseas prog, Maryland, 52-64; TRAFFIC MAN, DOYLE DANE BERNBACH, INC, 65- U.S.A, 42-46, 51-53, Res, 46-66, Lt. Col. Management theory; personnel. Address: Apt. 56, 102 W. 75th St, New York, N.Y. 10023.

DURBIN, DR. MARSHALL ELZA, b. Ramsey, Ill, Aug. 18, 36; m. 66; c. 1. ANTHROPOLOGY, LINGUISTICS. B.S, Eastern Illinois, 56; M.A, Southern California, 62; U.S. Steel fel, State Univ. N.Y. Buffalo, 62-64, Ph.D.(anthrop), 64. ASST. PROF. ling, Cornell, 64-65; ANTHROP, TULANE, 65- AAAS; fel. Anthrop. Asn; Ling. Soc. Linguistic theory; Mayan hieroglyphs; Athabascan languages; language in relation to other human behavior. Publ: The goals of ethnoscience, Anthrop. Ling, 66; The epistemology of phonology, Phonetics, 66; Language, In: Biennial review of anthropology, Stanford, 67. Address: Dept. of Anthropology, Tulane University, New Orleans, La. 70118.

DURBIN, DR. MRIDULA ADENWALA, b. Upleta, India; m. 66; c. 1. ANTHROPOLOGY. B.A, Gujarat Univ, India, 54, M.A, 57; M.A, Poona, 59; Ph.D.(anthrop), State Univ. N.Y. Buffalo, 65. Res. asst. lang. & lit, Gujarat, 58-61; ASST. PROF. ANTHROP, Missouri, Columbia, 64-66; La. State, spring, 67; TULANE, 67- Summers, Univ. Missouri travel grant to India, 65 & faculty fel, 66. Fel. Am. Anthrop. Asn; Ling. Soc. Am; Ling. Soc. India. Linguistic theory; anthropological, Indic and historical linguistics. Publ: Review of Cardona's Gujarati reference grammar, Language, (in press). Address: Dept. of Anthropology, Tulane University, New Orleans, La. 70118.

DURGIN, DR. FRANK A, JR, b. Lynn, Mass, Dec. 8, 23; m. 52; c. 1. ECONOMICS. B.A, Tufts, 49; Lic. en droit, Toulouse, 54, Dr. en droit, 56. Lectr. econ, Maryland, 57-59; asst. prof, Babson Inst. Bus. Admin, 60-64; ASSOC. PROF. BUS. & ECON, MAINE, 64- U.S.A.A.F, 43-46, Sgt. Econ. Asn. Soviet agriculture. Publ: Virgin land program, 1954-1960 & Monetization and policy in Soviet agriculture since 1952, 4/64, Soviet Studies; Soviet agriculture under Khruschev, Cashiers de l'Inst. Sci. Economique Applique, 5/66. Address: Dept. of Economics, University of Maine, Falmouth St, Portland, Maine 04103.

DURGIN, PROF. OWEN BERNARD, b. Portland, Maine, Nov. 18, 21; m. 48; c. 3. RESOURCE ECONOMICS. B.S, Gorham State Col, 46; M.A, New Hampshire, 51; Boston, 51-53. Instr. sociol, NEW HAMPSHIRE, 51-54, asst. prof, 54-59, statistician res. design, univ. exp. sta, 59-62, ASSOC. PROF. RESOURCE ECON. & REGISTR, 62- U.S.A.A.F, 42-46, T/Sgt. Biomet. Soc; Statist. Asn. Research design in biological and social sciences, particularly utilization of computer techniques in input-output models and linear programming. Publ: The margin concept in physical plant utilization, New Eng. Bd. Higher Ed, 66; co-auth, The economic base of New Hampshire, an appraisal, State N.H, 67 & Evaluation of methods of nitrogen determination in fertilizer, J. Soc. Off. Chemists, 62. Address: Dept. of Resource Economics, University of New Hampshire, Durham, N.H. 03824.

DURHAM, DR. FLOYD W, b. Yuma, Ariz, Feb. 9, 30; m. 52; c. 1. ECONOMICS, PHILOSOPHY. B.A, N.Tex. State Col, 51, M.A, 52; Ph.D.(econ), Oklahoma, 64. Instr. ECON, Oklahoma, 58-60; asst. prof, TEXAS CHRISTIAN, 60-65, ASSOC. PROF, 65- Mem. bd, soc. sci. div, Southwest. Ed. Develop. Lab, 66- U.S.A, 53-55, Sgt. Maj. Econ. Asn. Labor and resource economics; economic development. Publ: Minimum wages in the United States, Ft. Worth Bus. Rev; co-auth, A pilot methodological study of the cost of debilitating conditions in urban areas, Inst. Behav. Sci, Texas Christian, 66; auth, The indirect allocation method: an inexpensive method of small area personal income estimation, Miss. Valley J. Bus. & Econ, 67. Address: Dept. of Economics, Texas Christian University, Ft. Worth, Tex. 76129.

DURHAM, PRES. G(EORGE) HOMER, b. Parowan, Utah, Feb. 4, 11; m. 36; c. 3. POLITICAL SCIENCE. A.B, Utah, 32; fel, California, Los Angeles, 37-38, Ph.D, 39. From instr. to asst. prof. polit. sci, Utah State Col, 39-42, assoc. prof, 43-44; asst. prof, Swarthmore Col, 42-43; adv. ed, inst. local & state govt, Pennsylvania, 43; assoc. prof, Utah, 44-46, dir. inst. govt, 46-53, prof. polit. sci. & acad. v.pres, 53-60; PROF. POLIT. SCI. & PRES, ARIZONA STATE, 60- Mem, West. Interstate Cmn. Higher Ed, 55-60; lang. adv. bd, U.S. Off. Ed, 59-63; Reserve Officers Training Corps Adv. Panel, Secy, Air Force, 61-64. Polit. Sci. Asn; Soc. Pub. Admin.(v.pres, 52-53, pres, 59-60). Public administration and administrative theory; American political thought and policy. Address: Dept. of Political Science, Arizona State University, Tempe, Ariz. 85281.

DURHAM, DR. HENRY C(URTIS), JR, b. San Diego, Calif, July 18, 24; m. 68; c. 1. ECONOMICS. A.B, San Diego State Col, 53; M.A, Munich, Germany, 55, Ph.D, 59. Mgr, M. Leingstaettner, Pharmaceut. Firm, Germany, 53-59; lectr. ECON, European div, Maryland, 56-62, instr, univ, 62-63; ASST. PROF, U.S. Naval Acad, 63-66; Naval Postgrad. Sch. & Monterey Inst, 66-67; U.S. NAVAL ACAD, 67- Goethe-Institut grant, German For. Ministry. Germany, 60; summer econ. fels, develop. econ. theory, Virginia. 65; develop. appl. econ, Chicago, 66. U.S.A, 43-46. Econ. Asn; Indust. Rels. Asn; Acad. Polit. & Soc. Sci; Econ. Hist. Soc, Brit. Economic and political functions of the German labor movement; socio-economic theory, including problems of social behavior; languages. Publ: Die auswirkungen des collective bargaining auf die Situation des aelteren Arbeitnehmers in den Vereinigten Staaten, In: Studies in die Altersfrage: Soziale Aufgabe der Gegenwart. Address: Dept. of Economics, U.S. Naval Academy, Annapolis, Md. 21402.

DURIEZ, DR. PHILIP, b. Silver City, N.Mex, Mar. 18, 23; m. 42; c. 1. ECONOMICS. B.A, Western New Mexico & M.A, Baylor, 50; Ph.D.(econ), La. State, 62. Sr. analyst, Humble Oil & Ref. Co, 50-57; asst. ECON, La. State, 57-59; asst. prof, Northwest. State Col.(La), 59-62; Tex. West. Col, 62-64; lectr, European Div, Maryland, 64-65; ASSOC. PROF, TEXAS, EL PASO, 66- Summers, participant, Ford Found. Faculty seminar, Rice, 62 & Standard Oil Co. Calif. annual faculty seminar, 63. Proj. dir, Nat. Sci. Found. econ. proj, 67-68. U.S.A.A.F, 41-45, Sgt. Soc. Traffic & Transportation. Transportation; public regulation of industry. Publ: Rail-motor rate competition—the T.O.F.C. experience, Am. Soc. Traffic & Transportation, fall 67; The impact of Ex-parte 230 on rail-motor competition, Rocky Mt. Soc. Sci. Asn, 10/67. Address: Dept. of Economics, University of Texas at El Paso, El Paso, Tex. 79999.

DURIG, DR. KURT ROBERT, b. Biel, Switz, July 24, 22; U.S. citizen; m. 59; c. 2. SOCIOLOGY. A.B, San Francisco State Col, 60, M.A, 61; Ph.D.(sociol), Indiana, 67. Instr. SOCIOL, San Francisco State Col, 60-61; teaching assoc, Indiana, 61-63, asst. prof, southeast. campus, 64-68; instr, BUTLER, 63-64, ASSOC. PROF, 68- Sociol. Asn. Occupational aspirations of teenagers; crime and delinquency, especially treatment; group interaction processes. Publ: Dept. of Sociology, Butler University, Indianapolis, Ind. 46207.

DURISCH, PROF. LAWRENCE L(OGAN), b. Lincoln, Nebr, Mar. 13, 02; m. 33; c. 2. PUBLIC ADMINISTRATION. LL.B, Nebraska, 23, M.A, 28; Ph.D, Chicago, 32. Instr. polit. sci, Nebraska, 28-30; mem. res. staff, Tenn. Valley Authority, 34-65; PROF. POLIT. SCI, TENNESSEE, 65- Vis. prof, Illinois, 52; Alabama, 54; Tennessee, 55-56. Polit. Sci. Asn; Soc. Pub. Admin. State and local government. Publ: Co-auth, Upon its own resources. Address: 332 Essex Dr, Concord, Tenn. 37720.

DURKIN, DR. HELEN ELISE, b. Brooklyn, N.Y, Oct. 6, 01; m. 28; c. 2. PSYCHOLOGY. A.B, Cornell, 22; A.M, Columbia, 25, Ph.D.(psychol), 37. Clin. psychologist, Brooklyn Child Guid. Center, 37-40; New Rochelle Child Guid. Center, 43-52; SUPV. PSYCHOLOGIST, POSTGRAD. CENTER PSYCHOTHER, NEW YORK, 52- Private practice, 52-; consult. group ther, Vet. Admin, 64- Fel. Group Psychother. Asn; fel. Orthopsychiat. Asn. Publ: Group therapy with mothers, C.C. Thomas, 54; The group in depth, Int. Univs, 64. Address: 7 Fairview Rd, Scarsdale, N.Y. 10583.

DURLAND, DR. W(ILLIAM) D, b. Gloucester, Mass, Jan. 30, 99; m. 20; c. 2. ECONOMICS. B.S, Washington (Seattle), 19; M.F, Yale, 22; B.B.A, Tulane, 46; Ph.D, Texas, 57. Consult. analyst, W.D. Durland & Co, La, 42-46; appraiser, Am. Appraisal Co, Wis, 46-48; Higgins, Inc, La, 48-49; prof. & head dept. bus. admin, E.Texas Col, 49-52; assoc. prof. mgt, Toledo, 53-57; prof. bus. admin. & head dept, High Point Col, 57-61; prof. bus. admin. & head dept. econ. & bus. admin, Richard Bland Col, Williamsburg, Va. 61-65; pres, Assoc, Inc, 65-66; prof. mgt, bus. admin, Clarkson Tech, 66-67; CONSULT, ASSOCS. INS, 67- Pres, Assocs, Inc, La, 47. Land use; resource

industries; industrial management. Publ: Industrial resource adequacy; The renewable resource; Merchantable timber value. Address: 4011 State Street Dr, New Orleans, La. 70125.

DURNALL, DR. EDWARD J(AMES), b. New York, N.Y, Sept. 12, 23; m. 44; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Hofstra Col, 47; fel, Colo. Col, 47-48, A.M, 48; Ed.M, Harvard, 52; Ed.D.(personnel, guid), Oregon State, 53. Counsr. & psychometrist, Col. William & Mary, 48-49; dir. guid, Sullins Col, 49-52; counsr, Oregon State, 52-53; prof. ed. & psychol. & dean, Nason Col, 53-66; DIR. UNIV. EXTEN. & SUMMER SESSION, NEW HAMPSHIRE, 66- U.S.A.A.F, 43-46, Res, 46-, Maj. Psychol. Asn. Evaluation studies of teaching, guidance and counseling; psychological test analysis; prediction of scholastic success. Publ: Testing program for a junior college for women, Jr. Col. J; Predicting success for graduate students to education, Sch. & Soc; Falsification of interest patterns on the Kuder preference record, J. Ed. Psychol. Address: R.F.D, Durham, N.H. 03824.

DUROST, DR. WALTER N(ELSON), b. Portland, Maine, Mar. 8, 06; m. 29; c. 1; m. 58; c. 3. PSYCHOLOGY. A.B, Bates Col, 29; M.A, Columbia, 30, Ph.D, 32. Asst, Teachers Col, Columbia, 33-34, ed. res, inst. sch. experimentation, 34-35; test ed, World Book Co, 35-37, dir. div. res. & test serv, 37-48; assoc. prof. ed, Boston, 48-52; DIR. TEST SERV. & ADV. CENTER, LEE, N.H, 52- Assoc. prof. ed, New Hampshire, 64-68, adj. prof, 68- Consult. & dir. ed. serv, Pinellas County Pub. Schs, Fla, 55-60. Tech. expert, U.S. Dept. State, Berlin, 50. Consult, Harcourt, Brace & World, Inc, 48- Fel. AAAS; fel. Psychol. Asn; Coun. Measurement in Ed.(pres, 56); Asn. Measurement & Eval. Guid.(pres, 68-69). Educational and psychological tests. Publ: Ed. & co-auth, Metropolitan achievement test series & Analysis of learning potential; co-auth, Essentials of measurement for teachers, Harcourt, 62. Address: R.F.D. 1, Durham, N.H. 03824.

DURR, DR. FREDERICK R. E, b. Washington, D.C, July 16, 21; m. 47; c. 4. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Marietta Col, 49; M.A, Miami (Fla), 55; Kansas, 55-58; Ph.D.(econ), Ohio State, 61. Res. asst. prof. econ, Miami (Fla), 54-55; res. assoc, Kansas, 55-58; instr, Ohio State, 58-61; assoc. prof, Col. William & Mary, 61-62; economist, div. urban affairs, DELAWARE, 62-64, ASSOC. PROF. ECON, 62-, ASSOC. DIR. BUR. BUS. & ECON. RES, 67- U.S.C.G, 41-46, 51-54, Lt. Econ. Asn. Urban economics; transportation; demography; marketing. Publ: Economic and social effects of rail abandonment, 61 & Highway finance in Ohio, 61, Eng. Res. Center Ohio State; An economic analysis of the Wilmington metropolitan area, Div. Urban Affairs, Univ. Delaware, 64. Address: College of Business & Economics, University of Delaware, Newark, Del. 19711.

DURRENBERGER, PROF. J(OSEPH) A(USTIN), b. Giddings, Tex, Oct. 14, 98; m. 26, 34; c. 2. SOCIOLOGY. A.B, Southwestern (Tex), 22; A.M, Columbia, 25, Ph.D, 31; McGill, 39. Prin. Wesleyan Inst, Texas, 22-23; instr, Chelsea Sch, N.Y, 23-24; asst. head master, Hoboken Acad, N.J, 24-27; ed. asst, Encyclop. Britannica, 27-29; PROF. SOC. SCI, VALDOSTA STATE COL, 29-, ACAD. DEAN, 49- U.S.A, 18. Sociol. Asn; Acad. Polit. & Soc. Sci. Social and economic history; folk movement in Georgia; the family. Publ: Turnpikes, study of the toll road movement in the middle Atlantic states and Maryland; Studies in social progress. Address: 206 Brookwood Place, Valdosta, Ga. 31601.

DURRENBERGER, PROF. ROBERT W, b. Perham, Minn, Oct. 2, 18; m. 46; c. 2. GEOGRAPHY. B.S, Moorhead State Col, 40; B.S, Calif. Inst. Tech, 41; M.S, Wisconsin, 49; Ph.D, California, Los Angeles, 55. Off. mgr, R.S. Bacon Veneer Corp, 45-47; asst, Wisconsin, 47-49; asst. prof. geog, San Fernando Valley State Col, 49-57, prof, 57-61, chmn. dept, 56-61, coordinator grad. studies, 61-63; assoc. dean acad. planning, Calif. State Col. Syst, 63-64; PROF. GEOG, SAN FERNANDO VALLEY STATE COL, 64- Consult, Oper. Pea Soup, U.S. Dept. Air Force, 60. U.S.A.A.F, 40-45, Maj. Asn. Am. Geog; Meteorol. Soc; Nat. Coun. Geog. Ed. Climatology, particularly in southwestern United States. Publ: Patterns on the land; Geography of California; Sources of information about California. Address: Dept. of Geography, San Fernando Valley State College, Northridge, Calif. 91324.

DURYEA, DR. W(ALTER) ROBERT, b. Paterson, N.J, Feb. 24, 32; m. 56; c. 3. PSYCHOLOGY. A.B, Rutgers, 54; M.A, Connecticut, 56; Ph.D, Fla. State, 60. Asst. prof. psychol, New Hampshire, 60-67; CLIN. PSYCHOLOGIST, ESSEX UNIT, N.J. ASN. RETARDED CHILDREN, 67- Trainee, inst. child develop, Minnesota, 66-67. Psychol. Asn. Mental retardation, program evaluation and development, diagnosis; sex-role development. Publ: Sex-role preference in children: individual and group administration of the It scale for children, Psychol. Reports, 67. Address: Essex Unit, New Jersey Association for Retarded Children, 62 N. Walnut St, East Orange, N.J. 07017.

DUSEK, DR. E(DWIN) RALPH, b. San Angelo, Tex, Dec. 30, 24; m. 52; c. 2. PSYCHOLOGY. B.A, Missouri, 47; M.A, Iowa, 49, Ph.D.(psychol), 51; Indust. Col. Armed Forces, 64-65. Instr. psychol, Fla. State, 49-50; asst. prof, Arkansas, 51-53; res. psychologist, environmental protection div, Qm. Res. & Develop. Center, U.S. DEPT. ARMY, 53-55, chief psychophysiol. sect, 55-57, psychol. br, 57-61, head eng. psychol. lab, pioneering res. div, Qm. Res. & Eng. Center, 61-64; sci. adv. mil. performance, U.S. ARMY RES. INST. ENVIRON. MED, 64-66, DIR. BEHAV. SCI. LAB, 66- Mem, Army Human Factors Eng. Cmt. U.S.A.A.F, 43-46. AAAS; fel. Psychol. Asn; Psychonomic Soc; Human Factors Soc. Sensory processes; psychomotor skills; experimental methodology. Address: 6 Avalon Rd, Needham, Mass. 02192.

DuSHANE, DEAN DONALD M(cLELLAND), b. South Bend, Ind, July 4, 08; m. 33; c. 2. POLITICAL SCIENCE. A.B, Wabash Col, 27; A.M, Columbia, 36. Instr. govt, Columbia Col, 32-35; asst. prof, Lawrence Col, 35-38, assoc. prof. govt. & dean students & men, 38-48; LECTR. POLIT. SCI. & DEAN STUDENTS, OREGON, 48- Fulbright consult, univs. Colombia, S.A, summer, 60. Polit. Sci. Asn. Personnel; American naval policy. Address: 965 E. 23rd Ave, Eugene, Ore. 97405.

DUSHKIND, DR. DONALD S(TANFORD), b. New York, N.Y, Jan. 24, 26; m. 53; c. 3. PSYCHOLOGY. B.S.S, City Col. New York, 45; scholar. & M.A, Iowa, 46; Ph.D.(soc. psychol), N.Y. Univ, 59. Asst, child welfare res. sta, Iowa, 45-46, instr. sociol, 46; Wisconsin, 46-47; probtn. officer, Brooklyn Adolescents' Court, N.Y, 47; parole worker, State Training Sch. Boys, 48-49, 51-56; lectr, Marion Vet. Admin. Hosp, 49-50; psychiat. soc. worker, Hudson River State Hosp, 50-51; lectr. sociol, Brooklyn Col, 56-57; instr. econ, sociol. & psychol, Pratt Inst, 57-59; asst. prof. sociol, Adelphi Col, 59-61; asst. prof. psychol. & sociol, State Univ. N.Y, 61-63, assoc. prof, 63-65; asst. prof, sch. soc. work, San Diego State Col, 65-66; soc. psychologist, South Bay Guid. Clin, 66-67; CLIN. PSYCHOLOGIST, SAN FRANCISCO JUVENILE COURT, 67- Instr, Abbe Inst, 48-49; lectr, Westfield State Farm, 56; Long Island, 57-59, adj. asst. prof, 59-62, adj. assoc. prof, 62-64, adj. prof, 64-65; vis. lectr, State Univ. N.Y. 60; exten. instr, Col. of Marin, 67-; Univ. California, 68- Private practice, 56- Psychol. Asn; fel. Sociol. Asn; Asn. Social Workers; Acad. Cert. Soc. Workers; clin. mem. Asn. Marriage Counsr. Integration of methods of psychological and social readjustment; inter-ethnic attitudes; offender therapy. Publ: Physical, psychological, cultural and social forces affecting sociological research; Special problems in sociological research; Relation of status to attitudes and perception of attitudes toward probation. Address: 290 Tamalpais Rd, Fairfax, Calif. 94930.

DUSKIN, GERALD L, b. Philadelphia, Pa, Aug. 17, 26. ECONOMICS. B.S, Temple, 49; M.A, N.Y. Univ, 51. Indust. rels. analyst, Wage Stabilization Bd, 51-53; salary & wage adminstr, Frankford Arsenal, 53-56; labor mkt. analyst, State Employ. Serv, Pa, 56-60; regional economist, Penn-Jersey Transportation Study, 60-61; Tri-State Transportation Study, 61-63; econ. consult, 63-66; REGIONAL ECONOMIST, ECON. DEVELOP. ADMIN, 66- Lectr, Rutgers, 61-66, res. specialist, bur. econ. res, 63-66; lectr, U.S. Dept. Agr. Grad. Sch, 67- Econ. Asn; Acad. Polit. & Soc. Sci; Indust. Rels. Res. Asn; Soc. Planning Off; Regional Sci. Asn. Industrial development; plant location planning; regional analysis; industrial and manufacturing growth in Philadelphia metropolitan area; law. Address: 4805 Chevy Chase Blvd, Chevy Chase, Md. 20015.

DUSTER, DR. TROY S, b. Chicago, Ill, July 11, 36; m. 64. SOCIOLOGY. B.S, Northwestern, 57, Ford Found. fel, 59-61, Nat. Inst. Ment. Health fel, 61-62, Ph.D.(sociol), 62; M.A, California, Los Angeles, 59. Swedish Govt. fel, Uppsala, 62-63; asst. prof. sociol, CALIFORNIA, Riverside, 63-66, v.chmn. dept, 64-65, RES. ASSOC. COMP. UNIV. CONTROL, CENTER RES. & DEVELOP. HIGHER ED, BERKELEY, 66-, LECTR. SOCIOL, 67- Haynes Found. fel, 65. Consult, Calif. Rehab. Center, 63-66; Pac. State Hosp, 64-66. Sociol. Asn; Fedn. Am. Sci. Sociology of deviance; comparative higher education. Publ: Co-auth, Patterns of minority relations, Anti-defamation League, 64; auth, The legislation of morality, Macmillan, 68; Student interests, student power, and the Swedish experience, Am. Behav. Scientist, 5-6/68. Address: Dept. of Sociology, University of California, Berkeley, Calif. 94720.

DUSTIN, DR. DAVID S(UMNER), b. Concord, N.H, May 7, 36; m. 59; c. 2. PSYCHOLOGY. B.A, Yale, 57; M.S, Wisconsin, 60; Ph.D.(social psychol), Michigan, 63. ASST. PROF. PSYCHOL, Texas, 63-66; STATE UNIV. N.Y. COL. PLATTSBURGH, 66- Psychol. Asn. Authoritarian personality; social cognition; group conflict. Publ: Member reactions to team performance, J. Soc. Psychol, 66; co-auth, Redundancy in impression formation, 66 & Authoritarianism & sanctioning behavior, 67, J. Personality & Soc. Psychol. Address: Dept. of Psychology, State University of New York at Plattsburgh, Plattsburgh, N.Y. 12901.

DUTKA, SOLOMON, b. New York, N.Y, Nov. 5, 23; m; c. 2. STATISTICS. B.S, City Col. New York, 43; cert, Illinois, 44; M.A, Columbia, 46. PRES, AUDITS & SURVS. CO, 53- Am. Statist. Asn. del, sub-cmn. statist. sampling, UN, 60. Spec. citation for Manhattan Proj, Secy. War, 45. Fel. AAAS; Statist. Asn; Mkt. Asn; Inst. Math. Statist. Marketing. Address: 39 Wilcox Ave, Yonkers, N.Y. 10705.

DU TOIT, DR. BRIAN MURRAY, b. Bloemfontein, S. Africa, Mar. 2, 35; m. 58; c. 3. ANTHROPOLOGY. B.A, Pretoria, 57, M.A, 61; fel, Oregon, 59-63, Ph.D.(anthrop), 63. Res. instr. ANTHROP, Washington (Seattle), 61-62; lectr, Stellenbosch, 64-66; Cape Town, 66; ASST. PROF, FLORIDA, 66- Fel. Anthrop. Asn; African Studies Asn; Polynesian Soc. Human community as it adapts to changing conditions or is guided through community improvement programs. Publ: Beperkte lidmaatskap, John Malherbe, 65; Substitution, a process in culture change, Human Orgn, 64; Pictorial depth perception and linguistic relativity, Psychologia Africana, 66. Address: Dept. of Anthropology, University of Florida, Gainesville, Fla. 32603.

DUTT, DR. ASHOK K, b. Hazaribagh, India, Nov. 1, 31; m. 56; c. 2. GEOGRAPHY, REGIONAL PLANNING. M.A, Patna, 55 & 56, Ph.D.(urban geog), 61; dipl. c.p, Inst. Soc. Studies, Netherlands, 64. Asst. prof. geog, Patna, 57-62; assoc. planner, Calcutta Metrop. Planning Orgn, India, 62-66; ASST. PROF. GEOG, ST. ANSELM'S COL, 66- Ford Found. & Netherlands Bur. Tech. Assistance res. fel, 64-65. Asn. Am. Geog; Am. Geog. Soc; Regional Sci. Asn. Urban geography; shopping patterns; regional planning practices in India, the Netherlands and England. Publ: An analysis of communication to the metropolis of Calcutta, Nat. Geog. J. India, 9-12/64; Physical basis of the City of Jamshedpur, Deccan Geogr, 1/65; Daily shopping in Calcutta, Town Planning Rev, 10/66. Address: Dept. of Geography, St. Anselm's College, Manchester, N.H. 03102.

DUTTA, DR. MANORANJAN, b. India, Oct. 1, 25; m. 51; c. 1. ECONOMICS. B.A, Calcutta, 46, M.A, 50; Fulbright-Smith-Mundt fel, 58-60; Ford Found. fel, Pennsylvania, 60-61, Ph.D.(econ), 62. Lectr. & asst. prof. ECON, Calcutta, 51-58; lectr, Rhode Island, 61-62; asst. prof, RUTGERS, 62-64, ASSOC. PROF, 64- Vis. prof, Puerto Rico, summer 64; faculty fel, London Sch. Econ, 67-68. Consult. planning bd, Govt. P.R, summer 64. Econ. Asn; Economet. Soc; Statist. Asn. Econometrics; measurement in economics; methodology and application; foreign trade parameters; business order behavior; economics of environment-water resources; econometric model-building. Publ: Econometrics: principles, Macmillan, (in press); contrib,

The Brookings econometric model of the United States, Rand McNally, 65; auth, Role of price in international trade, Econometrica, 65. Address: Dept. of Economics, Rutgers, The State University, New Brunswick, N.J. 08903.

DUTTON, PROF. A(RTHUR) M(ORLAN), Statist, see 11th ed, Phys. & Biol. Vols.

DUTTON, DR. BERTHA P(AULINE), b. Algona, Iowa, Mar. 29, 03. ANTHROPOLOGY, GEOLOGY. B.A, New Mexico, 35, M.A, 37; Fletcher traveling fel, Peru & Bolivia, 35; Sch. Am. Res. fel, 35, 50; Ph.D.(anthrop), Columbia, 52. Secy, child welfare dept, pub. schs, Nebr, 28-32; dept. anthrop, New Mexico, 33-36; asst. to the dir, Mus. of N.Mex, 36-38, curator, 38-65; DIR, MUS. NAVAHO CEREMONIAL ART, INC, 66- Minnie Comnock Blodgett res. & excavations fel, Mex. & Guatemala, 53-54; Nat. Sci. Found. & Wenner-Gren Found. res. grants, Mex, 62-63; Columbus Explor. Fund travel & res. grant, Europe & S.Am, 64-65, Japan, 68. Mem. bd, Southwest. Asn. Indian Affairs, 59- Mem, Int. Cong. Americanists, 62- Cert. Indian Arts & Crafts Bd, U.S. Dept. Interior, 67. Soc. Am. Archaeol; Anthrop. Asn; Soc. Women Geog; Mex. Anthrop. Soc. Archaeology and ethnology of Southwest; archaeological excavations; Galisteo Basin, N.Mex. Publ: Tula of the Toltecs; Indians of the southwest; Sun father's way. Address: Museum of Navaho Ceremonial Art, Inc, Box 5153, Santa Fe, N.Mex. 87501.

DUTTON, PROF. JOHN MASON, b. Stanford, Maine, Oct. 17, 26; m. 56; c. 4. INDUSTRIAL ADMINISTRATION. B.S, New Hampshire, 52; M.B.A, Harvard, 57. Engr, Metcalf & Eddy, 54-55; res. assoc, Harvard, 57-58; instr, Northeastern, 59-60; asst. prof. indust. mgt, Purdue, 60-64, assoc. prof. indust. mgt. & admin. sci, 64-68; PROF. BUS. ADMIN, SOUTHERN METHODIST, 68- Lucas vis. prof, Birmingham, 63-64; McKinsey Found. Mgt. res. grant, 66-67. U.S.N, 45-47, 52-54, Lt.(jg). Soc. Adv. Mgt; Soc. Appl. Anthrop; Inst. Mgt. Sci; Acad. Mgt. Industrial management; simulation of organizational decision making systems; competition and collaboration among members of subgroups in industrial firms; learning process. Publ: Co-auth, Computer simulation of human behavior, Wiley, 68, Interdepartmental conflict and cooperation: two contrasting case studies, Human Orgn, fall 66 & How Charlie estimates run time, Acad. Mgt. Proc, 66. Address: Dept. of Business Administration, Southern Methodist University, Dallas, Tex. 75222.

DUTTON, DR. RICHARD E, b. Titusville, Pa, May 28, 29; m. 54; c. 2. BUSINESS COMMUNICATIONS & MANAGEMENT. B.A, Upsala Col, 51; M.B.A, Texas, 57; Ph.D.(personnel mgt), La. State, 63. Asst. mgt, Texas, 56-57; personnel asst, training dept, employee rels. div, Esso Standard Div, Humble Oil & Ref. Co, 57-58, personnel & compensation dept, 58-60, bus. analyst, bus. anal. dept, bus. serv. div, 60-61; teaching asst. econ. statist, La. State, 61-63; asst. prof. MGT, South Florida, 63-66; vis. assoc. prof, Texas, 66-67; ASSOC. PROF, SOUTH FLORIDA, 67- Consult, commun. improvement prog, S.Florida Div, State Farm Ins. Co, 64-66. U.S.A.F, 51-56, Res, 56-, Maj. Acad. Mgt. Small group research and interpersonal behavior in the business, including motivation studies and the effects of financial and non-financial incentives on productivity and personal commitment. Publ: Business management: a profession?, Adv. Mgt. Jr, 4/65; The marginal motivation of money, J. Human Rels, 2nd quarter, 67; co-auth, The neurotic executive, Personnel Admin, 9-10/67. Address: College of Business Administration, University of South Florida, Tampa, Fla. 33620.

DUUS, DR. PETER, Mod. East Asian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DUVALL, DR. EVELYN MILLIS, b. Oswego, N.Y, July 28, 06; m. 27; c. 2. HUMAN DEVELOPMENT. B.S, Syracuse, 27; M.S, Vanderbilt, 29; Columbia, 38; Northwestern, 35-40; Ph.D.(human develop), Chicago, 46. Dir, Asn. Family Living, 34-45; exec. dir, Nat. Coun. Family Rels, 45-51; dir. adolescent study course, Nat. Cong. Parents & Teachers, 54-64; Distinguished prof. family life, Southern Illinois, 62-63; MEM. FACULTY, GEORGE WILLIAMS COL, LAKE GENEVA CAMPUS, 68- Exec. secy, Nat. Conf. Family Life, 48; chmn. int. dels, Int. Conf. on Family, 60, family life ed. sect, India, 66. Consult, Nat. Marriage Guid. Coun, Dept. Justice, N.Z, 67. Leader, Family Life Seminar, Scandinavia & North. Europe, 57; del, White House Conf. Children & Youth, 40, 50, 60. Fel. Asn. Marriage Counsrs; fel. Sociol. Asn; Soc. Res. Child Develop. Adolescent development and the nature of the contemporary American youth culture; developmental tasks of family members, and family development through the family life cycle; conceptions of family member roles; in-law relationships. Publ: Love and the facts of life, 67 & Today's teen-agers, 66, Asn. Press; Family development, Lippincott, 67. Address: George Williams College, Lake Geneva Campus, Williams Bay, Wis. 53191.

DUVALL, DR. RICHARD M(AREEN), b. Bennettsville, S.C, Apr. 25, 34; m. 56; c. 3. ECONOMICS, STATISTICS. B.S, Clemson, 57; Ph.D.(econ), North Carolina, 63. Instr. econ, Duke, 60-61; asst. prof. STATIST, Texas, 61-63; Michigan, 63-65; Texas, 65-66; ASSOC. PROF, TENNESSEE, 66- Econ. Asn; Statist. Asn. Economic time series analysis; applications of probability and statistics to business problems. Publ: Co-auth, Predicting the results of proxy contests, J. Finance, 9/65; auth, Time series analysis by modified least-squares techniques, J. Am. Statist. Asn, 3/66; Rules for investigating oost variances, Mgt. Sci, 6/67. Address: Dept. of Statistics, University of Tennessee, Knoxville, Tenn. 37916.

DUVALL, PROF. SYLVANUS M(ILNE), b. Syracuse, N.Y, Nov. 16, 00. SOCIAL SCIENCE. A.B, Syracuse, 21; A.M, Columbia, 23, Ph.D, 28; B.D, Union Theol. Sem, 24, S.T.M, 27; London, 25-26. Prof. relig. ed, Scarrit Col, 26-31; pastor, Vt. & Ohio, 31-33; PROF. soc. sci. & relig, George Williams Col, 33-67; SOC. SCI, ELON COL, 67- Sociol. Asn; Acad. Polit. & Soc. Sci. Family relation and philosophy of religion; incorporation of the insights of social sciences into the philosophy of religion; sex ethics; attitudes toward riots as expressed in mass media and personal interviews. Publ: Before you marry; Men, women and morals: the art and skill of getting along with people; co-auth, Sex ways in fact and faith. Address: College Gardens Apts. 18, Elon College, N.C. 27244.

DUWAJI, PROF. GHAZI, b. Damascus, Syria, May 29, 35; m. 63; c. 2. ECONOMICS. B.A, American Univ. Beirut, 59; Ph.D.(econ), Duke, 66. Asst. prof. ECON, Western Kentucky, 64-66; TEXAS, ARLINGTON, 66-68, ASSOC. PROF, 68- Econ. Asn. Economic development of underdeveloped countries; problems of economic integration. Publ: Economic development in Tunisia: course & impact of government planning, Praeger, 67; Cooperation in the agricultural sector in Tunisia, Coop. Acct, spring 66; Land ownership in Tunisia: an obstacle to agricultural development, Land Econ, 2/68. Address: Dept. of Economics, University of Texas at Arlington, Arlington, Tex. 76010.

DuWORS, PROF. R(ICHARD) E(DWARD), b. Boston, Mass, May 29, 14; m. 40; c. 5. SOCIOLOGY. A.B, Bates Col, 39; fel, Harvard, 40-42, A.M, 43, Ph.D, 49. Tutor, Harvard, 40-42; instr, Brown, 46-48; assoc. prof, Mt. Union Col, 49-50; prof. sociol. & chmn. dept, Bucknell, 50-58; PROF. SOCIOL. & HEAD DEPT, SASKATCHEWAN, 58- Am. Philos. Soc. grant, 53; Int. Nickel Co. grants, 60-61. Mem. Int. Inst. Sociol. U.S.N, 42-45, Lt. Fel. Sociol. Asn; Rural Sociol. Soc. Generalized sociological theory; sociology of knowledge; community analysis. Publ: The markets and the mores: economics and sociology; Custom and contract; a functional analysis; Mass society and community analyses of the social present. Address: Dept. of Sociology, University of Saskatchewan, Saskatoon, Sask, Can.

DUX, PROF. D(IETER), b. Bydgoszcz, Poland, Feb. 27, 18. POLITICAL SCIENCE. A.B, Chicago, 39, Ph.D, 48. Prof. polit. sci, Rockford Col, 48-51; Ford faculty fel, 51-52; from assoc. prof. to PROF. POLIT. SCI, CINCINNATI, 55-, HEAD DEPT. & DIR. CENTER FOR STUDY U.S. FOR. POLICY, 63- Polit. Sci. Asn. Publ: Ideology in conflict, Van Nostrand, 63. Address: Dept. of Political Science, University of Cincinnati, Cincinnati, Ohio 45221.

DVOICHENKO-MARKOV, PROF. DEMETRIUS, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

DVORAK, DR. BEATRICE J(EANNE), b. Hopkins, Minn, May 15, 08; m. 43. INDUSTRIAL PSYCHOLOGY. B.A, Minnesota, 29, M.A, 30, Ph.D.(psychol), 34. Asst. psychol, Minnesota, 29-31, employ. stabilization res. inst, 31-34; tech. asst, worker anal. sect, U.S. EMPLOY. SERV, 34-39, CHIEF, 39-47, TESTING BR, 47- Dipl, Am. Bd. Exam. Prfnl. Psychol. AAAS; fel. Psychol. Asn. Trade and aptitude tests. Publ: Differential occupational ability patterns. Address: 4201 Massachusetts Ave, N.W, Washington, D.C. 20016.

DVORIN, PROF. EUGENE P(AUL), b. Los Angeles, Calif, Sept. 8, 24; m. 51; c. 2. POLITICAL SCIENCE. A.B, California, Los Angeles, 48, M.A, 50, Ph.D.(polit. sci), 55; B.S, U.S. Merchant Marine Acad, 51. Ford Found. for. study & res. fel, Cent. Africa, 55-56; instr. polit. sci, Mich. State, 56-57; California, Los Angeles, 57-58; asst. prof. GOVT. CALIF. STATE COL. LOS ANGELES, 58-61, assoc. prof. & head dept, 61-64, PROF, 65- Fulbright res. scholar, Osmania, India, 61. U.S. Merchant Marine, 43-45, Ens. Polit. Sci. Asn; Soc. Pub. Admin. American government; state and local government. Publ: Co-auth, Introduction to California government, 66, California politics and policies, 66 & Government in American society, 67, Addison-Wesley. Address: 6333 Bovey Ave, Reseda, Calif. 91335.

DWORIN, DR. JACK, b. New York, N.Y, Apr. 16, 25; m. 50; c. 1. CLINICAL PSYCHOLOGY. A.B, Adelphi Col, 49; Ph.D, Rochester, 53. Trainee clin. psychol, Vet. Admin, Rochester, 49-53; staff psychologist, Vet. Admin. Hosp. Northport, N.Y, 53-56; chief psychologist, State Hosp, Torrance, Pa, 56-62; STAFF PSYCHOLOGIST, MENT. HYG. CLIN, VET. ADMIN. HOSP, DENVER, 62- Group psychother. consult, Denver Gen. Hosp, 67- U.S.A, 43-46. Psychol. Asn; Group Psychother. Asn. Group psychotherapy; interpersonal reactions and interaction in marriage. Publ: Team approach to dependency needs of schizophrenics; Authoritarian patterns in the mothers of schizophrenics. Address: Mental Hygiene Clinic, Veterans Administration Hospital, 1055 Clermont, Denver, Colo. 80220.

DWORKIS, PROF. MARTIN B(ERNARD), Pub. Admin, see 10th ed, Soc. & Behav. Vols, deceased.

DWYER, DR. FRANCES M(ARKEY), Psychol, see 10th ed, Soc. & Behav. Vols.

DWYER, PROF. PAUL S(UMNER), Statist, see 11th ed, Phys. & Biol. Vols.

DWYER, DR. SAMUEL J, III, Elec. Eng, see 11th ed, Phys. & Biol. Vols.

DYAL, PROF. JAMES A(LBERT), b. Waurika, Okla, June 19, 28; m. 52; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Oklahoma, 51; Ford Found. fel, Illinois, 53-54, U.S. Pub. Health Serv. fel, 55-56, Ph.D, 57. Asst. prof. PSYCHOL, Southern Methodist, 57-61; assoc. prof, TEXAS CHRISTIAN, 61-65, PROF, 65- Nat. Sci. Found. sci. faculty fel, 67-68. U.S.M.C, 46-47; U.S.A, 51-52, 1st Lt. AAAS; Psychol. Asn; Psychonomic Soc. Animal learning and behavior, especially in vertebrates; determinants of response decrement; biological bases of memory. Publ: Latent extinction as a function of placement-test interval and irrelevant drive, 64 & Effects of delay of knowledge of results and subject response bias on extinction of a simple motor skill, 66, J. Exp. Psychol; co-auth, Transfer effects of intraperitoneal injection of brain homogenates, Nature, 67. Address: Dept. of Psychology, Texas Christian University, Ft. Worth, Tex. 76129.

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Deficiency; fel. Orthopsychiat. Asn; fel. Pub. Health Asn; Acad. Cert. Soc. Workers. Penology; child welfare; parent education; mental retardation. Publ: Theorie und Praxis des Faschistischen Strafvollzugs; Challenges in mental retardation, Columbia, 64; The dynamics of mental retardation, U.S. Pub. Health Serv, 64. Address: Heller School, Brandeis University, Waltham, Mass. 02154.

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Human Rels. Training News, spring, 63. Address: Dept. of Sociology, Brigham Young University, Provo, Utah 84601.

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DZIADEK, DR. FRED, b. Vienna, Austria, June 4, 34; m. 55. ECONOMICS. A.B, Columbia, 55; White fel, Cornell, 55-56; univ. fels. & Ph.D.(econ), Hopkins, 60. Instr. econ, Hopkins, 56-59; economist, Int. Monetary Fund, 59-65; assoc. chief, Battelle Mem. Inst, 65-66; ASST. CHIEF, U.S. AGENCY INT. DEVELOP, 66- Lectr, Georgetown, 60-65. Summers, engr, Martin Co, 57, economist, Planning Coun. Greater Baltimore Cmt, 58. Econ. Asn. Central banking; international trade; business cycles; economic development. Publ: Unemployment in the less developed countries, U.S. Agency Int. Develop, 67. Address: 1111 Arcola Ave, Silver Spring, Md. 20902.

DZIEWANOWSKI, PROF. M(ARIAN) K(AMIL), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

D'ZURILLA, DR. THOMAS J, b. Carteret, N.J, Aug. 29, 38; m. 60; c. 3. PSYCHOLOGY. A.B, Lafayette Col, 56; M.A, Illinois, 62, Ph.D.(clin. psychol), 64. Clin. psychol. intern, Vet. Admin. Hosp, Perry Point, Md, 64-65; ASST. PROF. PSYCHOL. & CLIN. PSYCHOLOGIST, STATE UNIV. N.Y. STONY BROOK, 65- Psychol. Asn. Behavior modification; application of psychological principles to the modification of abnormal behavior. Publ: Recall efficiency and mediating cognitive events in experimental repression, J. Personality & Soc. Psychol, 65; Persuasion and praise as techniques for modifying verbal behavior in a real-life group setting, J. Abnorm. Psychol, 66. Address: Dept. of Psychology, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

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EACKER, DR. JAY N(ORMAN), b. Boise, Idaho, Dec. 23, 33; m. 62; c. 2. PSYCHOLOGY. B.A, Idaho, 59; M.S, Washington State, 62, Ph.D.(psychol), 66. Psychol. asst, Vet. Admin. Hosp, 63-65; instr. PSYCHOL, WHITMAN COL, 65-66, ASST. PROF. & CHMN. DEPT, 66- Grants, Am. Philos. Soc. Penrose Fund, 67 & Nat. Inst. Ment. Health, 67-68. U.S.N, 51-54. AAAS; Psychol. Asn. Motivation; exploration; effects of light and stimulus change on behavior. Publ: Co-auth, Effects of anxiety, delay, and reinforcement on generalized expectancies, J. Personality, 62 & Behaviorally produced illumination change by the chick, 67 & auth, Behaviorally produced illumination change: visual exploration and reinforcement-facilitation, 67, J. Comp. Physiol. Psychol. Address: Dept. of Psychology, Whitman College, Walla Walla, Wash. 99362.

EADS, DR. LAURA K(RIEGER), b. Buffalo, N.Y, Jan. 23, 02; m; c. 1. PSYCHOLOGY. B.S, Buffalo, 24; M.A, Columbia, 26, Ph.D, 30. Teacher, pub. schs, N.Y, 19-25, 27; res. psychologist & asst, teachers col, Columbia, 25-29, asst, 29-30; RES. ASSOC, Erpi Classroom Films, Inc, 30-37; NEW YORK BD. ED, 37- Psychologist, Friends Sem, 28-29; instr, N.Y. Univ, 53; Rutgers, 53-55; Virginia, 54; City Col. New York, 54-59; State Univ. N.Y. Col. Ed, Cortland, 56-57; Yeshiva, 59-65; Pa. State, 60; Indiana, 61; Nat. Psychol. Asn. for Psychoanal. fel, 58-; N.S. Dept. Ed. Summer Sch, 64. Guest lectr. & consult, 46; attend. psychologist, Stuyvesant Poly-Clin, 61-; private practice psychoanal, 61- Psychol. Asn; Psychol. Asn. for Psychoanal. Educational tests and sound films; gifted children; elementary school mathematics; clinical psychology. Publ: Mathematics: grades 1-2, 3, 4; Teaching mathematics in the kindergarten, grade 1-8, Grade Teacher; co-auth, Guiding arithmetic learning. Address: 141 Joralemon St, Brooklyn, N.Y. 11201.

EAGAN, PROF. WILLIAM F(RANK), b. Chicago, Ill, Feb. 18, 20. ECONOMICS, POLITICAL SCIENCE. B.A, Elmhurst Col, 42; M.Ed, Loyola (Ill), 49; D.S.S, Syracuse, 56. Teacher, high sch, Ill, 46-52; instr. govt. ed, Eastern Illinois, 52-54; asst. econ, Syracuse, 55-56; asst. prof. BUS. ADMIN, NOTRE DAME, 56-61, ASSOC. PROF, 61-, DIR. GRAD. PROG, 57- U.S.A, 42-46, Res, 47-, Lt. Col. Econ. Asn. Effectiveness of state aid programs in attracting new industry; business administration as practiced by religious institutions. Address: Box 86, Notre Dame, Ind. 46556.

EAGER, DR. EVELYN LUCILLE, b. Sask; Can. citizen. POLITICAL SCIENCE. B.A, Saskatchewan, 47, Hons, 48; M.A, Toronto, 49, Ph.D.(polit. sci), 58. Asst. prov. archivist, Sask. Arch. Bd, 50-61; asst. prof. polit. sci, Saskatchewan, 61-63; exec. secy, Royal Cmn. Taxation, Sask, 63-65; ASSOC. PROF. POLIT. SCI, LAKEHEAD, 65- Can. Polit. Sci. Asn; Can. Hist. Asn. Canadian government, especially the Province of Saskatchewan. Publ: The constitution of Saskatchewan, In: Saskatchewan history, 62; The paradox of power in the Saskatchewan C.C.F, 1944-1961, In: The political process in Canada, 63; The rationale of taxation in Saskatchewan, Royal Cmn. Taxation, 65. Address: Dept. of Political Science, Lakehead University, Port Arthur, Ont, Can.

EAGLE, DR. MORRIS N(ATHAN), b. New York, N.Y, Oct. 29, 28; m. 60. PSYCHOLOGY. B.S, City Col. New York, 49, fel, 49-51; Ph.D.(psychol), N.Y. Univ, 58. Instr. psychol, Finch Col, 55-59; res. asst. prof, grad. psychol. dept. & res. center ment. health, N.Y. Univ, 59-63; ASSOC. PROF. PSYCHOL, FERKAUF GRAD. SCH. HUMANITIES & SOC. SCI, YESHIVA, 63-, CHMN. DEPT, 67- U.S. Pub. Health Serv, fel, 58-59. Res. assoc. Cmn. Race & Housing, 55-57; res. consult, ment. hyg. clin, Henry St. Settlement, 61-65; ed. clin, Hunter Col, 65- AAAS; Psychol. Asn. Incidental learning and learning strategies; attention and memory; problems of explanation in psychology. Publ: Co-auth, Recall and recognition in intentional and incidental learning, J. Exp. Psychol, 64 & Imagery: effect of a concealed figure in a stimulus, Science, 66; auth, The effects of learning strategies upon free recall, Am. J. Psychol, 67. Address: Dept. of Psychology, Yeshiva University, 55 Fifth Ave, New York, N.Y. 10003.

EAGLE, DR. ROBERT EDWARD, b. Helena, Mont, July 3, 41; m. 64. POLITICAL SCIENCE. B.S, Montana State, 63; Cokesbury award, American Univ, 64-65, M.A, 65, Nat. Sci. Found. summer fel, 66, Ph.D.(govt), 67. Govt. intern, American Univ, 63-64, teaching asst. GOVT, 65-67, summer lectr, 67; ASST. PROF, OHIO, 67- Polit. Sci. Asn. Politics and governmental decision making relating to resources and environmental quality management; legislative and administrative behavior; political interest groups; American government. Address: Dept. of Government, Ohio University, Athens, Ohio 45701.

EAGLY, DR. ALICE H(ENDRICKSON), b. Los Angeles, Calif, Dec. 25, 38; m. 62. PSYCHOLOGY. A.B, Radcliffe Col, 60; Woodrow Wilson fel. & M.A, Michigan, 63, Nat. Sci. Found. fel. & Ph.D.(soc. psychol), 65. ASST. PROF. PSYCHOL, Mich. State, 65-67; MASSACHUSETTS, 67- Psychol. Asn; Soc. Psychol. Study Social Issues. Attitude change and social influence; cognitive structure. Publ: Co-auth, Attitude toward the communicator, perception of communication content and attitude change, 65, Evaluation of message and communicator as a function of involvement, 66 & auth, Involvement as a determinant of response to favorable and unfavorable information, 67, J. Personality & Soc. Psychol. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01002.

EAGLY, DR. ROBERT V, b. Kalamazoo, Mich, May 28, 33; m. 62. ECONOMICS. A.B, Michigan, 54; Stockholm, 54-55; M.A, Washington, 58; Oslo, 60-61; Ph.D.(econ), Rutgers, 62. Lectr. ECON, Rutgers, 61-62; asst. prof, Wayne State, 62-66, ASSOC. PROF, 66-67; MASSACHUSETTS, 67- Summer vis. asst. prof, Wisconsin, 64 & California, Los Angeles, 65. Wayne State faculty res. recognition award, 65-66. Econ. Asn; Finance Asn; Econ. Hist. Asn; Hist. Asn; Royal Econ. Soc. History of economic analysis; inflation theory; European economic history. Publ: Auth. & ed, Events, ideology and economic theory, Wayne State Univ, 68; auth, Money, employment and prices: a Swedish view, 1761, Quart. J. Econ, 11/63 & Market power as an intervening mechanism in Phillips curve analysis, Economica, 2/65. Address: Dept. of Economics, University of Massachusetts, Amherst, Mass. 01002.

EAKIN, PROF. CARL T(URNEY), b. Clayton, N.Mex, Sept. 7, 30; m. 52; c. 1. MARKETING. B.B.A, W.Tex. State Col, 54; M.B.A, Indiana, 55, D.B.A, 59. Asst. prof. mkt, Hanover Col, 55-56; assoc, Indiana, 56-58; asst. prof. mgt, Notre Dame, 58-60; assoc. prof. retailing & chmn. dept, GEORGIA, 60-62, PROF. MKT. & CHMN. DEPT, 62- Consult, Assocs. Invest, 59; res. consult, State Dept. Commerce, 61. U.S.A.F, 47-51, Sgt. Econ. Asn; Mkt. Asn. Retailing; inventory control; industrial markets; retailing trade area analyses; behavioral theory in marketing. Publ: Turnover handbook; Retail trade area study, Ga. Inst. Community & Area Develop, 63; chap, In: New approach to marketing theory. Address: College of Business Administration, University of Georgia, Athens, Ga. 30601.

EALY, PROF. LAWRENCE O(RR), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EAMES, EDWARD J(EFFERSON), b. Santa Fe, N.Mex, May 4, 18; m. 42; c. 3. GEOGRAPHY. B.S, Ind. State Teachers Col, 41, M.S, 46; summers, Nebraska, 48-50. Instr. geog, Drake, 47-50; RES. SPECIALIST, U.S. DEPT. DEFENSE, 50- Mem. Int. Geog. Union. U.S.N, 41-45, Res, 46-65, Lt. Comdr. AAAS; Asn. Am. Geog; Am. Geog. Soc; Polar Soc; Nat. Coun. Geog. Ed. Area, urban and economic geography; educational administration. Address: 7131 Constantine Ave, Springfield, Va. 22150.

EAMES, DR. EDWIN, b. New York, N.Y, Mar. 7, 30; m. 51; c. 3. CULTURAL ANTHROPOLOGY, SOCIOLOGY. B.S.S, City Col. New York, 51; Ph.D.(anthrop, sociol), Cornell, 65. Teaching asst. anthrop. & sociol, Cornell, 51-53; instr, TEMPLE, 56-61, asst. prof, 61-67, ASSOC. PROF. ANTHROP, 67- Culture change; urbanism in India; culture of poverty. Publ: Co-auth, Urban migration in India and Africa, Human Orgn, 64; Urbanization and rural-urban migration in India, Pop. Rev, 65; Urban migration & joint family in a north Indian village, J. Develop. Areas, 1/67. Address: Dept. of Anthropology, Temple University, Philadelphia, Pa. 19122.

EARHART, DR. RICHARD H, b. Kansas City, Mo, Sept. 4, 09; m; c. 2. PSYCHOLOGY. Ph.D, Western Reserve, 49. Asst. prof. psychol, Western Reserve, 47-51, res. assoc, 51-52; asst. prof. psychol, Baldwin Wallace Col, 54-60; psychologist, Ore. Fairview Home, 60-64; from psychologist to chief psychologist, Dammasch State Hosp, 64-66; CHMN. DEPT. SOC. SCI, ORE. TECH. INST, 66- AAAS; Psychol. Asn. Address: 4313 Lombard Dr, Klamath Falls, Ore. 97601.

EARICK, PROF. ARTHUR D(AVID), b. Covington, Ohio, Jan. 22, 16; m. 50; c. 3. GEOGRAPHY. A.B, Indiana, 49; A.M, Michigan, 50, fel, 50-51, Ph.D, 59. PROF. GEOG, East. Mich. Col, 50-57; Okla. State, 57-60; CALIF. STATE COL. FULLERTON, 60- U.S.A, 41-45. Asn. Am. Geog. Regional geography of North and South America; industrial geography; urban geography. Address: 2106 Victoria Dr, Fullerton, Calif. 92631.

EARL, PROF. ROBERT W(ILLIAM), b. Oak Park, Ill, July 7, 20; m. 54; c. 4. PSYCHOLOGY. B.A, Stanford, 42, M.A, 50; Ph.D.(psychol), Michigan, 57. Asst. prof. PSYCHOL, CLAREMONT GRAD. SCH, 57-61, assoc. prof, 61-66, PROF, 66- Consult, ground systs. group, Hughes Aircraft Co, 60-62. U.S.A.A.F, 42-45, 1st Lt. AAAS; Psychol. Asn; Psychonomic Soc; Psychomet. Soc. Motivation; learning; perception; statistics; math models. Publ: Theory of stimulus selection; Analysis of exploratory, manipulatory and curiosity behaviors, Psychol. Rev; Asymptotic values of response probabilities in the Audley-Jonckheere learning model, Psychometrika. Address: 4240 Piedmont Mesa Dr, Claremont, Calif. 91711.

EARLE, PROF. FRANCES M, Geog, see 10th ed, Soc. & Behav. Vols.

EARLE, DR. JEFFREY BARNARD, b. Montreal, Que, Apr. 2, 20. CLINICAL PSYCHOLOGY. B.A, Sir Geo. Williams Univ, 50; M.A, Ottawa, 54, Ph.D, 56. Intern psychol, Ottawa Gen. Hosp, 51; asst. psychologist, guid. center, Ottawa, 51-53; clin. consult, Vet. Dept. Govt. Can, 53-56; consult, private practice, 57-64; Nathaniel Hughson Inst, Hamilton, Ont, 64-66; PSYCHOLOGIST, DEPT. HEALTH, ONT. GOVT, ONT. HOSP, BROCKVILLE, 67- Lectr, Ottawa, 54-58. Consult, Tri-Serv. Hosp, Ottawa, Ont, 53-56; clin. psychologist & dir. personnel, St. Mary's Hosp, Montreal, Que, 57-58. Can. Army, 41-44, Lt. Am. Psychol. Asn; Acad. Relig. & Ment. Health; N.Y. Acad. Sci; Can. Psychol. Asn; Brit. Psychol. Soc. General psychology; psychotherapy; existentialism; sociology; psychopathology; teaching; psychoanalysis. Address: P.O. Box 5061, Baseline Rd, Ottawa, Ont, Can.

EARLE, DR. JOHN R(OCHESTER), b. Louisburg, N.C, Oct. 23, 35; m. 58; c. 1. SOCIOLOGY. B.A, Wake Forest, 58; M.A, North Carolina, 61, Ph.D.(sociol), 63. ASST. PROF. SOCIOL, WAKE FOREST, 63- U.S.A, 58-59, Res, 59-66, Capt. Sociol. Asn. Parent-child relations; sociology of religion. Publ: Parent-child communication, sentiment and authority, Sociol. Inquiry, spring 67. Address: Dept. of Sociology & Anthropology, Wake Forest University, Winston-Salem, N.C. 27109.

EARLEY, PROF. JAMES S(TAINFORTH), b. Valley City, N.Dak, Oct. 16, 08; m. 39, 61; c. 3. ECONOMICS. A.B, Antioch Col, 32; A.M, Wisconsin, 34, Ph.D, 39; Soc. Sci. Res. Coun. fel, London, 36-37. Instr. econ, Wisconsin, 37-39, asst. prof, 39-40, assoc. prof, 41-42; head economist, Off. Price Admin, 42-45; assoc. prof. econ, Wisconsin, 45-47, prof, 47-67; PROF. ECON. & CHMN. DEPT, CALIFORNIA, RIVERSIDE, 67- Economist, Nat. Defense Adv. Cmn, 40-41; vis. prof, Yale, 53-54; dir. qual. credit studies, Nat. Bur. Econ. Res, 59- Adv, Brit. Commonwealth financial affairs, U.S. Dept. State, 45; consult, Off. Int. Trade Policy, 49-51. Trustee, Antioch Col, 47-50. Mem. cmt. int. exchange persons, Fulbright Prog, 53-56. Econ. Asn; Finance Asn; Royal Econ. Soc. Money and banking; theoretical economics; history of economic thought; business economics. Publ: Economic theory in review; co-auth, Pricing for profit and growth, Prentice-Hall, 62; auth, Marginal policies of excellently managed companies, Am. Econ. Rev. Address: Dept. of Economics, University of California, Riverside, Calif. 92502.

EARLY, PROF. STEPHEN T(YREE), JR, b. Washington, D.C, June 2, 23; m. 56; c. 1. POLITICAL SCIENCE. B.A, Virginia, 48, M.A, 50, Ph.D. (polit. sci), 54. Asst. prof. POLIT. SCI, DePauw, 54-58, assoc. prof, 58-61, PROF, 61-66; GEORGE MASON COL, 66- U.S.A, 43-45, 1st Lt. Acad. Polit. Sci. Judicial process; war powers of national government. Publ: American national government, Blaisdell, 64. Address: George Mason College, 4400 University Dr, Fairfax, Va. 22030.

EARNEST, PROF. ROBERT C(LARENCE), b. Kansas City, Mo, Nov. 23, 23; m. 46; c. 4. FINANCE. B.S, Denver, 48, M.B.A, 49; Ph.D, Ohio State, 56. Asst. prof. FINANCE, Kans. State Col, 51-53; Marquette, 53-56, assoc. prof, 56-57; PROF. & CHMN. DEPT, FLA. STATE, 57-, coordinator grad. studies, 63-68. U.S.A.A.F, 42-46, 2nd Lt. Finance Asn; Econ. Asn. Microeconomics; business finance. Publ: History of savings and loan associations of Wisconsin; Analysis of the financial community of Valdosta, Georgia; Comparison of the Federal Deposit Insurance Corporation and the Federal Savings and Loan Insurance Corporation, J. Ins. Address: School of Business, Florida State University, Tallahassee, Fla. 32306.

EARNEY, DR. FILLMORE C, b. Butts, Mo, Oct. 25, 31; m. 55; c. 3. GEOGRAPHY. A.B, San Jose State Col, 57, M.A, 58; Ph.D.(geog), Mich. State, 65. Asst. prof. GEOG, Castleton State Col, 61-65; assoc. prof, Slippery Rock State Col, 65-66; ASST. PROF, NORTHERN MICHIGAN, 66- Asn. Am. Geog; Nat. Coun. Geog. Ed; Am. Geog. Soc. Problems in the development of economic minerals; resource development. Publ: The slate industry of Western Vermont, 10/63, Vermont's mineral industries, 2/67 & Mushrooms and mines, 1/68, J. Geog. Address: Dept. of Geography, Northern Michigan University, Marquette, Mich. 49855.

EARP, PROF. JAMES P(EARSALL), b. Plainfield, N.J, Mar. 18, 04; m. 38; c. 2. SOCIOLOGY. B.S, Pennsylvania, 25; A.M, Columbia, 26; Ph.D, Northwestern, 33. Prof, Morris County Jr. Col, 33-35; instr, Dickinson Col, 35-

38; PROF. SOCIOL, WEST. MD. COL, 38- Teaching fel, Drew, 33-35. Sociol. Asn; Acad. Polit. & Soc. Sci. Status and function of the engineer in society. Address: Dept. of Sociology, Western Maryland College, Westminster, Md. 21157.

EASBY, ELIZABETH KENNEDY, b. Dayton, Ohio, Mar. 20, 25; m. 49. ARCHAEOLOGY, ANTHROPOLOGY. B.A, Cornell, 47; M.A, Columbia, 52. Res. assoc. PRE-COLUMBIAN ARCHAEOL, Mus. Am. Indian, New York, 61-63; 63; ACTING CURATOR, BROOKLYN MUS, 65- Consult, Metrop. Mus. Art, New York, 55, 65 & 67-; Tikal proj, Univ. Mus, 65; tech. adv. Mexican Organizing Cmt. Olympic Games, 67-68. Colombian Order of San Carlos; Peruvian Order of Merit. AAAS; Archaeol. Inst. Am; Am. Anthrop. Asn; Mex. Anthrop. Soc. Art history; ceramic and lithic art of the Tapajó Indians in Brazil; technological studies of Mesoamerican jade carving. Address: 110 East End Ave, New York, N.Y. 10028.

EASLEY, DR. DAVID L(EIGH), b. McComb, Miss, Apr. 10, 30. EXPERIMENTAL PSYCHOLOGY. B.S, Millsaps Col, 51; Ph.D, Vanderbilt, 56. Psychologist, res. directorate, Kirtland Air Force Base, N.Mex, 56-59; human factors engr, Martin Co, Colo, 59; sr. scientist, HumRRO, 59-67; RES. SPECIALIST HUMAN FACTORS, COLUMBUS DIV, N.AM. ROCKWELL CORP, 67- Psychol. Asn. Human learning; perception. Address: 5158-J Longbranch, Columbus, Ohio 43213.

EASLEY, PROF. EDDIE V, b. Lynchburg, Va, Nov. 16, 28; m. 56; c. 3. MARKETING, STATISTICS. B.S, Va. State Col, 48; M.S, Iowa State, 51, Ph.D. (econ, statist), 57. From asst. prof. to assoc. prof. mkt, Drake, 57-65; asst. prof. quant. anal, Wisconsin, Milwaukee, 65-66; PROF. MKT. & CHMN. DEPT, DRAKE, 66- Ford Found. fel, Chicago, summer 59; Carnegie Inst. Tech, summer 61; res. fel, surv. res. center, Michigan, summer 62. U.S.A, 54-56. Mkt. Asn. Marketing research; quantitative analyses in business economics. Publ: The Negro businessman in Milwaukee inner core area, Univ. Wisconsin, Exten. Div, 67. Address: Dept. of Marketing, Drake University, P.O. Box 4, Des Moines, Iowa 50311.

EASLEY, DR. HOWARD, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

EASON, DR. ROBERT G(ASTON), Phys. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

EASON, PROF. WARREN W(ORTMAN), Econ, see 10th ed, Soc. & Behav. Vols.

EASSON, LELIA M, Econ, see 10th ed, Soc. & Behav. Vols.

EAST, DR. JOHN PORTER, b. Springfield, Ill, May 5, 31; m. 53; c. 2. POLITICAL SCIENCE. B.A, Earlham Col, 53; LL.B, Illinois, 59; M.A, Florida, 62, Ph.D.(polit. sci), 64. Asst. prof. POLIT. SCI, EAST CAROLINA, 64-67, ASSOC. PROF, 67- U.S.M.C, 53-55, Lt. Polit. Sci. Asn. History of American political thought. Publ: Council-manager government: political thought of its founder, Richard S. Childs, Univ. North Carolina, 65; Pragmatism and behavioralism, West. Polit. Quart, 12/68. Address: Dept. of Political Science, School of Arts & Science, East Carolina University, Greenville, N.C. 27835.

EAST, DR. MAURICE A(LDEN), b. Trinidad, Colo, Feb. 21, 41; m. 63; c. 1. POLITICAL SCIENCE, INTERNATIONAL POLITICS. B.A, Colgate, 63; Fulbright scholar, Oslo, 63-64; M.A, Princeton, 66, Ph.D.(polit. sci), 68. ASST. PROF. INT. POLIT, GRAD. SCH. INT. STUDIES, DENVER, 67- Consult, U.S. Off. Ed. Inst. Int. Affairs, Colo. Col, 67-68. Polit. Sci. Asn; Int. Peace Res. Asn. Concept of international systems and ways of operationalizing this concept; comparative foreign policies. Publ: Co-auth, Factors influencing cooperation and conflict in the international system, Int. Studies Quart, 9/67. Address: Graduate School of International Studies, University of Denver, Denver, Colo. 80210.

EASTBURN, DR. DAVID P(LUMB), b. Doylestown, Pa, Jan. 9, 21; m. 49; c. 4. ECONOMICS. A.B, Amherst Col, 42; M.A, Pennsylvania, 45, Ph.D.(econ, polit. sci), 57. Mem. res. staff econ, FED. RESERVE BANK OF PHILA, 42-58, V.PRES. RES. ECON, 58- Summer instr, Univ. Pennsylvania, 45 & 47, Sch. Banking of the South, La. State, 56-60, sch. banking, Univ. Wisconsin, 56-67, Pa. Sch. Banking, Bucknell Univ, 57 & 65, Stonier Grad. Sch. Banking, Rutgers, 59-60, 62, 66-67, grad. sch. savings banking, Brown Univ, 60-63. Staff bd. governors, Fed. Reserve Syst, Wash, D.C, 50-51. Econ. Asn; Finance Asn. Money; banking; finance; central banking. Publ: The Federal Reserve on record, Fed. Reserve Bank of Phila, 5/65. Address: 75 Short Rd, R.D. 3, Doylestown, Pa. 18901.

EASTER, DR. E(RNEST) CLIFFORD, b. Arlington, Mass, Dec. 12, 16; m. 41; c. 3. PSYCHOLOGY. B.A, New Hampshire, 53, M.A, 54; Ph.D.(psychol), Missouri, 59. Asst. clin. psychologist, ment. hyg. clin, Missouri, 56-58; STAFF PSYCHOLOGIST, VET. ADMIN. HOSP, Montrose, N.Y, 59-61, AUGUSTA, GA, 61- U.S.A, 43-45. Psychol. Asn. Vocational counseling and rehabilitation. Address: Psychology Service, Veterans Administration Hospital, Augusta, Ga. 30904.

EASTERBROOK, PROF. WILLIAM T(HOMAS), b. Winnipeg, Man, Dec. 4, 07; m. 37; c. 3. ECONOMIC HISTORY. B.A, Manitoba, 33, LL.D, 66; M.A, Toronto, 34, Ph.D, 36; M.A, Cambridge, 55. Asst. prof. econ, Manitoba, 37-46; PROF. ECON. HIST, TORONTO, 47-, CHMN. DEPT. POLIT. ECON, 61- Guggenheim fel, 40-41; Pitt prof, Cambridge, 55-56; Marshall lectr, 56. Econ. adv, ministry econ. affairs & develop. planning, United Repub. Tanzania, 66-67. Fel. Royal Soc. Publ: Agricultural credit in Canada; co-auth, Canadian economic history. Address: Dept. of Political Economy, University of Toronto, Toronto, Ont, Can.

EASTERLIN, PROF. RICHARD A(INLEY), b. Ridgefield Park, N.J, Jan. 12, 26; m. 49; c. 4. ECONOMICS. M.E, Stevens Inst. Tech, 45; A.M, Pennsylvania, 49, Soc. Sci. Res. Coun. fel, 51-52; Ph.D.(econ), 53. Asst. prof. ECON, PENNSYLVANIA, 53-56, assoc. prof, 56-60, PROF, 60- Ford Found. faculty fel, 65-66. Mem. res. staff, Nat. Bur. Econ. Res, 56-66; econ. adv. panel, Nat. Sci. Found, 64-66. U.S.N.R, 45-46, Ens. Econ. Asn; Econ. Hist. Asn; Pop. Asn. Economic development and history; population. Publ: Co-auth, Population redistribution and economic growth, United States, 1870-1950, Vol. I & II; auth, American baby boom in historical perspective, Am. Econ. Rev. & Regional income, In: American economic history. Address: Dept. of Economics, Wharton School of Finance & Commerce, University of Pennsylvania, Philadelphia, Pa. 19104.

EASTIN, PROF. ROY B(RANDON), b. Henderson, Ky, July 1, 17; m. 43; c. 1. PERSONNEL PSYCHOLOGY. A.B, George Washington, 43, A.M, 45; Ph.D, American Univ, 53. Asst. to dir. personnel, U.S. Govt. Printing Off, 43-45, asst. supt. documents, 45-49, supt, 49-53, exec. officer, 53-60; PROF. BUS. ADMIN, GEORGE WASHINGTON, 60-, prof. lectr, 55-60. Intern, Nat. Inst. Pub. Affairs, 44-45. Mem. prod. standards cmt. & consult, Printing Indust. Am, 60- Citation, Rockefeller Pub. Serv. Awards Cmt, 52; distinguished serv. gold medal, U.S. Govt. Printing Off, 59. Soc. Pub. Admin. Managerial psychology; personnel administration; executive development; appraisal of managerial effectiveness; psychological factors in leadership; hospital administration; management in the graphic arts. Publ: Government publications and their use; Management patterns, Bus. Forms Sect, Printing Indust. Am, 67; The difference makes the management, Printing Indust. Am, 67. Address: Dept. of Business Administration, George Washington University, Washington, D.C. 20006.

EASTMAN, DR. CAROL M, Ling, Anthrop, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

EASTMAN, DR. DANIEL, b. New York, N.Y, Sept. 6, 12. PSYCHOLOGY. A.B, Cornell, 34; M.A, Columbia, 52, Ph.D.(psychol), 56. Private practice, 51- Ed, Complex, 51-52; asst. ed, Psychoanal, 52-54; therapist, Theodore Reik Clin, 56-58; assoc. attend. psychologist, Stuyvesant Polyclin, 58-61. Psychol. Asn. Psychology of the self, especially in relation to self acceptance as a central measure of psychological health and as a factor in therapy. Publ: What is anxiety, Complex; Self acceptance and marital happiness, J. Consult. Psychol. Address: P.O. Box 51, Warwick, N.Y. 10990.

EASTMAN, DR. DONALD FRANCIS, b. Council Bluffs, Iowa, Dec. 14, 26; m. 54. CLINICAL PSYCHOLOGY. B.A, Omaha, 54; Ph.D.(psychol), Nebraska, 60. Intern, Vet. Admin. Hosp, Downey, Ill, 56-57; PSYCHOLOGIST, DeWitt State Hosp, 59-67; SACRAMENTO STATE COL, 66- Private practice, 61-; assessment officer, Peace Corps, Brazil, summer, 67. U.S.A, 46-47. Psychol. Asn. Psychoanalytic theory; variables in psychotherapy; speech pathology and therapy; legal aspects of psychology. Address: 2322 Butano Dr, Suite 207, Sacramento, Calif. 95825.

EASTMAN, PROF. GEORGE DANIEL, b. Seattle, Wash, Nov. 6, 12; m. 59; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Washington (Seattle), 51; M.P.A, N.Y. Univ, 59; Ed.D. (higher ed), Mich. State, 65. Chief police, Seattle, Wash, 46-52; dir. west. region, Nat. Safety Coun, 52-53; consult, U.S. Dept. Treas, 54-55; supt. police, Port New York Authority, 55-57; dir. pub. safety, Pontiac, Mich, 58-60; assoc. prof. police admin, Mich. State, 60-63; prin, Pub. Admin. Serv, 63-67; PROF. POLIT. SCI. & DIR. INST. GOVT. RES. & SERV, KENT STATE, 67- Lectr, Brooklyn Col, 55-56; N.Y. Univ, 56-58. Consult, Ford Found; Field Found; Nat. Conf. Christians & Jews; U.S. Off. Civil Defense & Civil & Defense Mobilization; Nat. Security Resources Bd; Brookings Inst; President's Crime Cmn; various cities & univs. Cert. of achievement, State Univ. N.Y, 67. U.S.N, 45. Soc. Criminol; Soc. Pub. Admin; Int. Asn. Chiefs Police; Int. City Mgr. Asn. Theory and practice of public and police administration. Publ: Co-ed. & contrib, Municipal police administration, Int. City Mgr. Asn, 68; co-auth, Modern police records and communications: organization, management, and systems, Pub. Admin. Serv, 68. Address: Dept. of Political Science, Kent State University, Kent, Ohio 44240.

EASTMAN, PROF. HARRY C(LAUDE), b. Vancouver, B.C, Can, July 29, 23; m. 49; c. 3. ECONOMICS. B.A, Toronto, 47; A.M, Chicago, 49, Field fel, McLean fel. & Ph.D, 52. Instr, Duke, 49-52; lectr. econ, TORONTO, 53-57, asst. prof, 57-61, assoc. prof. POLIT. ECON, 61-63, PROF, 63-, ASSOC. DEAN SCH. GRAD. STUDIES, 64- R.C.A.F, 43-45. International trade and industrial organization. Publ: Co-auth, The tariff and competition in Canada, Macmillan, 67. Address: Dept. of Political Economy, University of Toronto, Toronto, Ont, Can.

EASTMAN, SAMUEL EWER, b. Erie, Pa, Dec. 15, 22; m. 50; c. 3. ECONOMICS. B.S.E, Princeton, 44; LL.B, Harvard, 49; M.A, Maryland, 67. Asst, Inst. Adv. Study, 49-50; res. proj. dir, Puerto Rico, 50-51; asst. prof, grad. sch. bus. admin, Harvard, 51-55; soc. scientist, Rand Corp, 55-56; dir. tech. staff, Aeronaut. Res. Found, 56-58, Tech. Opers, Inc, 58-61, develop. planning, 61-62; assoc. & proj. dir, econ. & polit. studies div, Inst. Defense Analyses, 62-67; PRES, THE ECON. SCI. CORP, INC, 67- Lectr, Mass. Inst. Tech, 58-60. Consult, off. asst. develop. planning, Hqs, U.S. Dept. Air Force, 52-54; Hunt, Hill & Betts, 53-54; dir. transportation & communications, U.S. Dept. Defense, 54-55; Northeast Air Lines, 54-55; United Res, Inc, 59; maritime cargo transport cmt, Nat. Acad. Sci-Nat. Res. Coun, 61; corporate systs. center, United Aircraft Corp, 62. U.S.N, 44-46. AAAS; Econ. Asn; Inst. Aeronaut. & Astronaut. Economics; law; engineering; studies of the demand for V/STOL aircraft; the application of microeconomics to welfare programs. Publ: Co-auth, Ships and sugar, Univ. Puerto Rico, 53; auth, Merchant Marine policy, use of computers in steamship operations, Cornell Maritime Press, 63; co-auth, Aircraft loading considerations: a sortie generator for use in planning military transport operations, Naval Res. Logistics Quart, 3/68. Address: 4448 Hawthorne St. N.W, Washington, D.C. 20016.

EASTMAN, DR. WILLARD L, Appl. Math, see 11th ed, Phys. & Biol. Vols.

EASTON, PROF. DAVID, b. Toronto, Ont, June 24, 17; m. 42; c. 1. POLITICAL SCIENCE. B.A, Toronto, 39, M.A, 43; Ph.D, Harvard, 47. Asst. prof. POLIT. SCI, CHICAGO, 47-53, assoc. prof, 53-55, PROF, 55-, Ford prof. govt. affairs, 60-61. Fel, Center Adv. Study Behav. Sci, 57-58. Consult, Brookings Inst, 53; ment. health res. inst, Michigan, 55-56; Royal Cmn. Bilingualism & Biculturalism, Can, 65-67. Mem. cmt. legal & polit. philos,

Soc. Sci. Res. Coun, 54-64; exec. cmt, Inter-Univ. Consortium Polit. Res, 62-64; exec. cmt, Int. Cmt. Soc. Sci. Document, 65-; cmt. exam, grad. record exam. polit. sci, Ed. Testing Serv, N.J, 66-68. Mem. div. behav. sci, Nat. Acad. Sci-Nat. Res. Coun, 63-66, 67-, exec. cmt, 65-, chmn. cmt. info. behav. sci, 66-67. Polit. Sci. Asn.(pres. elect, 67-68); fel. Am. Acad. Arts & Sci. Publ: The political system, Knopf, 53; A framework for political analysis, Prentice-Hall, 65; A systems analysis of political life, Wiley, 65. Address: Dept. of Political Science, University of Chicago, 1126 E. 59th St, Chicago, Ill. 60637.

EASTON, DR. HAMILTON P(RATT), Soc. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EASTWOOD, DR. RALPH A(LLEN), b. Wheatland, Wyo, Feb. 20, 19; m. 56; c. 2. MARKETING, ECONOMICS. B.S, Wyoming, 40; M.S, Cornell, 47, Ph.D, 51. Asst. county agent agr. econ, Wyoming, 40; asst, Cornell, 40-41, 46-48; agr. economist, coop. res. & serv. div, U.S. Dept. Agr, 48-49; mgt. trainee, Grange League Fedn. Exchange, Inc, 49, asst. mgr. Buffalo Egg Terminal 50; exec. secy, Milk for Health, Inc, 50-51; chief res. sect, agr. res. dept, Swith & Co, 51-52; instr. econ, Illinois, 53, asst. prof, 53-54; dir. dept. affiliated unit serv, Nat. Dairy Coun, 54-57; ECONOMIST, FLORIDA, 57- U.S.A, 41-46, Res, 46-61, Col. Agr. Econ. Asn. Business management of firms, especially dairy and poultry firms; farmer cooperative marketing firms; consumer economics. Publ: Study of the mortgageability of owner-operated dairy farms in land class III in central and western New York, 1937-1942; Economics of raising broilers and costs and margins of slaughtering poultry in fifteen cooperative wholesale poultry slaughtering plants, 1947-1948; Operating costs in fifteen cooperative poultry dressing plants, 1952. Address: Dept. of Marketing Economics, University of Florida, Gainesville, Fla. 32601.

EASTWOOD, DR. RICHARD T(RUMAN), b. Pawnee Co, Nebr, Nov. 19, 12; m. 42; c. 2. ADMINISTRATIVE & MANAGEMENT SCIENCE. A.B, Tarkio Col, 36; M.A, Nebraska, 39; Ely scholar, Wisconsin, 40-41, 48-50, Ph.D, 54. Instr, exten. div, Alabama, 39-40, asst. supvr. eng, sci. & mgt. war training prog, 41-43, asst. prof. mgt, 46-50, assoc. prof, 50-54, prof. econ, 54-62, dir. commerce, exten. serv, 46-51, dir. univ. exten. center, 51-58, assoc. dean exten, 56-58, exec. dir. univ. affairs, 58-62; EXEC. V.PRES, TEX. MED. CENTER, INC, 62- Am. Christian Palestine Cmn. fel, Near East, 55; v.pres. & secy, Tex. Med. Center Housing, Inc, 65-; fiscal agent & secy. regional adv. cmt, Regional Med. Progs. in Tex, 66- Consult, Nat. Insts. Health, 61-; Children's Med. Center, Omaha, Nebr, 66- Mem. Governor's cmt. & Ala. del. to White House Conf. on Aging, 61; mem. adv. coun, Inst. Gen. Med. Sci, 63-65. U.S.N.R, 43-46, Lt. Soc. Adv. Mgt; Econ. Asn; Indust. Rels. Res. Asn. Economics and management. Address: Texas Medical Center, Inc, 1133 M.D. Anderson Blvd, Houston, Tex. 77025.

EATHERLY, PROF. BILLY JACK, b. Jackson, Miss, Dec. 15, 36; m. 57. ECONOMICS. B.A, Miss. State, 59, M.A, 60; Ph.D.(econ), Southern Methodist, 64. Analyst, Ling-Temco-Vought, Tex, 63-64; assoc. prof. ECON, Miss. State, 64-66; sr. rep, N.Am. Aviation, Inc, Calif, 66-67; PROF, MISS. STATE, 67- U.S.M.C, 54-56. Am. Econ. Asn; Statist. Asn; Economet. Soc; Royal Econ. Soc. Economic theory; quantitative economics; transportation economics. Address: Dept. of Economics, Mississippi State University, State College, Miss. 39762.

EATON, DR. EVELYN THAYER, b. Fresno, Calif, Apr. 3, 17. SOCIOLOGY. A.B, California, 42; M.A, Catholic Univ, 49, Ph.D.(sociol), 55. INSTR. SOCIOL, Immaculata Jr. Col, 50-51; San Francisco Col. for Women, 54-58; Raimondi Col, 58-65; OVERSEAS STUDENTS SERV. CENTRE, 61-; LECTR, CHINESE UNIV. HONG KONG, 65- Sociol. Asn. Belgian social history; Christian social principles. Publ: Belgian leagues of Christian working class women. Address: 15 Connaught Rd, Hong Kong.

EATON, DR. JOSEPH W, b. Nuremberg, Germany, Sept. 28, 19; m. 47; c. 3. SOCIOLOGY. B.S, Cornell, 40; Ph.D, Columbia, 48. Asst. prof. sociol, Wayne, 47-53; vis. prof, Western Reserve, 53-56; California, Los Angeles, 56-59; PROF. SOC. WORK RES. & SOCIOL, PITTSBURGH, 59-, DIR. ADV. PROGS. IN SOC. WORK, 67- Dir. grad. study, U.S. Off. Ed, 64-68; chmn, Nat. Asn. Soc. Workers, 68-71. Sociol. Asn; Soc. Study Social Probs; Sociol. Res. Asn. Sociology of professions; social work practice; social aspects of mental health; social psychology. Publ: Man's capacity to reproduce, Free Press, 54; Culture and mental disorders, Macmillan, 55; Stone walls not a prison make, C.C. Thomas, 62. Address: Graduate School of Social Work, University of Pittsburgh, Pittsburgh, Pa. 15213.

EATON, DR. MARTHA B, b. Ithaca, N.Y, Dec. 17, 35; m. 65. PSYCHOLOGY. B.S, Pa. State, 57, M.S. 59; Ph.D.(psychol), Chicago, 67. Instr. PSYCHOL, DePAUL, 66-67, ASST. PROF, 67- Psychol. Asn. Personality and psychotherapy. Publ: Co-auth, Acquiescence, overgeneralization and equivalence range, Ed. Psychol. Measurement, 61; Shared experiencing in psychotherapy, Univ. Chicago Counseling Center, 63. Address: Dept. of Psychology, DePaul University, Chicago, Ill. 60604.

EATON, DR. MERRILL T(HOMAS), JR, Psychiat, see 11th ed, Phys. & Biol. Vols.

EATON, PROF. PAUL T, b. Karlsruhe, Germany, June 7, 04; U.S. citizen; m. 29; c. 3. INDUSTRIAL ENGINEERING, ECONOMICS. Ph.D.(econ), Frankfurt, 24; Dipl. Ing, Aachen Tech, 27. Eng. salesman, sales mgt. & export exec, Europe & Cent, South & North America, 27-52; PROF. INDUST. ENG, GA. INST. TECH, 52- Fulbright lectr. develop. indust. eng. curriculum, Austria, Germany, Switz. & Italy, 56; German Productivity Centers lectr, 63 & 65; guest lectr, Israel Inst. Tech, Ireland, Eng. & Austria, 65. Developed the Mat. Handling Teachers Inst. & conducted first inst, Ga. Inst. Tech, 63 & second inst, 64, lectr, third inst, Purdue, 66. Adv. to chief ord, U.S. Army, D.C, 55-56; U.S. Tech. Assistance Prog. adv, Govt. Fed. Repub. Yugoslavia, 61. U.S. rep, Int. Conf. Automation, Vienna, 56; lectr, Int. Conf. Mat. Handling, Brit. Mat. Handling Soc, Brighton, 63. Inst. Indust. Egn; Soc. Eng. Ed; Nat. Asn. Acct; Int. Mat. Mgt. Soc. Electronic data processing in plant layout facilities planning and distribution; development of methodology for automatic flow processes. Publ: Operations research and automation: its importance for the State of Israel and the industrial engineering curriculum, Tech. Newsletter, Israel Inst. Tech, 1/66; Material handling and industrial engineering abroad, Mat. Handling Eng, 6/66; co-auth, Report on the Georgia Tech short course on material handling, Plant Eng, 4/66. Address: School of Industrial Engineering, Georgia Institute of Technology, Atlanta, Ga. 30332.

EATON, DR. PAUL W, b. Minneapolis, Minn, Sept. 30, 27; m. 50; c. 2. ECONOMICS, STATISTICS. B.A, Minnesota, 50, M.A, 54, Ph.D.(econ), 65. Statistician, div. employ. & security, State Minn, 52; sales analyst, Munsingwear, Inc, 53; instr. statist, Minnesota, 55-59; asst. prof. ECON. & STATIST, MICHIGAN TECH, 59-65, ASSOC. PROF, 65- Consult, Copper Country Health Coun, 67. U.S.A.F, 51-52. Economet. Soc; Statist. Asn; Econ. Study Soc. Oligopoly theory; game theory; statistical decision theory; sampling theory; spectral analysis. Publ: On the intersection of Edgeworth and equilibrium sets, Univ. Minnesota, 65; co-auth, Utility and smoking, The Am. Statistician, 10/67. Address: Dept. of Economics & Statistics, Michigan Technological University, Houghton, Mich. 49931.

EATON, DR. ROBERT E(DWARD), b. Riverside, N.J, May 31, 24; m. 47; c. 4. CLINICAL PSYCHOLOGY. A.B, Stanford, 49, M.A, 50; M.A, Pacific (Calif), 57; Ed.D.(counseling), Wayne State, 60. Merrill-Palmer Counseling Serv. intern, 57-59; asst. prof, Redlands, 59-62; supv. psychologist, Optimist Boys Ranch, San Bernardino, 62-66; psychol. consult, Operation Head Start, San Bernardino County, 66-67; CLIN. PSYCHOLOGIST, 59- Mem, Calif. State Adv. Cmt. Marriage, Family & Child Counseling, 66-70. U.S.A, 42-45. Psychol. Asn; Asn. Marriage Counsr. Psychotherapy; marital therapy. Publ: Learning theory and guidance: three case studies and their implications. Address: 25 S. Fifth St. Mall, Redlands, Calif. 92373.

EBAUGH, PROF. LAURA SMITH, b. Greenville, S.C, Apr. 12, 98. SOCIOLOGY. A.B, Goucher Col, 19; A.M, Columbia, 33; Chicago, 38; North Carolina, 41. County home serv. secy, Am. Red Cross, S.C, 19-22; teacher pub. schs, 22-34, head dept. hist. & soc. studies, high sch, 24-34; dir. soc. serv, Richland Co, 34-35; assoc. prof. SOCIOL, FURMAN, 35-63, EMER. PROF, 63-; ADULT ED. ASSOC, GREENVILLE COUNTY PUB. LIBRARY, 63- Sociol. Asn. Child welfare institutions; community surveys; race problems. Address: Greenville County Library, Greenville, S.C. 29601.

EBEL, PROF. ALICE L(UCINDA), b. Orangeville, Ill, Feb. 14, 05. POLITICAL SCIENCE. A.B, Heidelberg Col, 27; A.M, Chicago, 31; Ph.D.(polit. sci), Illinois, 60. Instr, high schs, Ill, 27-30, 32-34; instr. soc. sci, univ. high sch, ILLINOIS STATE, 34-43, asst. prof, univ, 46-60, assoc. prof. POLIT. SCI, 60-62, PROF, 62-, HEAD DEPT, 66- Contrib. ed, Co. Govt. Dept, Nat. Civic Rev, 67- U.S.N.R, 43-45, Res, 48-, Lt. Comdr. Polit. Sci. Asn. Decision making in state, local and county government. Address: Dept. of Political Science, Illinois State University, Normal, Ill. 61761.

EBEL, PROF. ROBERT LOUIS, b. Waterloo, Iowa, Nov. 14, 10; m. 33; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Iowa State Teachers Col, 32; M.A, Iowa, 36, Ph.D, 47. Teacher, pub. schs, Iowa & Mich, 32-41; prin. high sch, Edison Inst, 41-44; dir. univ. exam. serv, 45-57, prof. ed. Iowa, 47-57, dir. bur. ed. res, 55-57; v.pres, Ed. Testing Serv, 57-63; PROF. ED. & PSYCHOL, MICH. STATE, 63- Vis. consult, U.S. Off. Mil. Govt, Germany, 48. Ed, Newsletter, 56-59. AAAS; Psychol. Asn; Nat. Coun. Measurements in Ed.(pres, 57); Psychomet. Soc; Ed. Res. Asn. Theory and techniques of mental testing and educational measurement. Publ: Measuring educational achievement, Prentice-Hall, 65; ed, Encyclopedia of educational research (fourth ed), Macmillan, 69; Writing the test item, In: Educational measurement. Address: 449 Erickson Hall, Michigan State University, East Lansing, Mich. 48823.

EBEL, DR. ROLAND HINKLEY, b. Oak Park, Ill, Oct. 11, 28; m. 55; c. 2. POLITICAL SCIENCE. A.B, Wheaton Col.(Ill), 50; M.A, Northwestern, 52; Falk Found. fel, Mich. State, 55-58, Ph.D, 60. Instr. polit. sci, Wheaton Col, 52-54; asst. publicity dir, State Repub. Cent. Cmn, Mich, 58; asst. to chmn, dept. polit. sci, Mich. State, 58-60; asst. prof. POLIT. SCI, Western Michigan, 60-64; ASSOC. PROF, TULANE, 64- Vis. lectr, Adrian Col, 62; Soc. Sci. Res. Coun. grant Latin Am. studies, 65-66. Polit. Sci. Asn; Asn. Latin Am. Studies. Comparative political systems in Western Europe and Latin America; American party organization and political behavior. Publ: Co-auth, Land and politics in rural Guatemala, Univ. Kansas, 64; auth, Political professionals; Political change in Guatemalan Indian communities, J. Inter-Am. Studies Center La. Studies, 1/64. Address: 8716 Tanglewild Place, New Orleans, La. 70123.

EBENHOLTZ, DR. SHELDON M(ARSHAL), b. New York, N.Y, Nov. 27, 32; m. 55. EXPERIMENTAL PSYCHOLOGY. B.S, City Col. New York, 55; M.A, New Sch. Soc. Res, 58, Ph.D.(psychol), 61. Res. assoc. PSYCHOL, Swarthmore Col, 60-61; instr, Conn. Col, 61-62, asst. prof, 62-66; ASSOC. PROF, WISCONSIN, MADISON, 66- U.S. Pub. Health Serv. grants, 62-63 & 64-71. AAAS; Psychol. Asn; Psychonomic Soc. Serial learning; associative symmetry; one-trial learning; free recall; perceived size; stereoscopic depth perception; visual adaptation; perception of body and object orientation; theoretical implications of the concept of reafference. Publ: Co-auth, Stroboscopic movement based on change of phenomenal rather than retinal location, Am. J. Psychol, 62; auth, Position mediated transfer between serial learning and a spatial discrimination task, 63 & Position learning and sequential associations, 63, J. Exp. Psychol. Address: Psychology Bldg, University of Wisconsin, Madison, Wis. 53706.

EBENSTEIN, PROF. WILLIAM, b. Austria, May 11, 10; nat; m. 38; c. 4. POLITICAL SCIENCE. LL.D, Vienna, 34; fel, Wisconsin, 36-37, Ph.D. (polit. sci), 38. Res. assoc. law, Wisconsin, 37-38, from instr. to assoc. prof. polit. sci, 38-46; assoc. prof. politics, Princeton, 46-49, prof, 49-62; PROF. POLIT. SCI, CALIFORNIA, SANTA BARBARA, 62- Soc. Sci. Res. Coun. fel, 42-43, 47; Ford fel, 53-54; sr. fel. coun. humanities, 55-56. Polit. Sci. Asn. Comparative government; political theory; international politics. Publ: Great political thinkers: Plato to the present; Modern political thought: the great issues; Today's isms: communism, fascism, capitalism, socialism.

Address: Dept. of Political Science, University of California, Santa Barbara, Calif. 93106.

EBER, DR. HERBERT W(OLFGANG), b. Vienna, Austria, June 2, 28; nat; m. 49; c. 1. PSYCHOLOGY. B.A, Southwestern at Memphis, 51; Ph.D, North Carolina, 54. Asst, Inst. Res. in Soc. Sci, 51-52; clin. psychol. trainee, Vet. Admin, 52-54; assoc. prof. psychol, Alabama Col, 54-57, prof, 57-60; private practice, 60- Chief dept. psychol, Hill Crest Hosp, Birmingham, Ala, 61-; panel psychologist, div. voc. rehab, State Dept. Ed, Ga, 65- Consult. psychologist, ment. health div, State Dept. Health, Ala, 55; Ala. Sch. for Blind & Deaf, 55-; State Voc. Rehab. Serv, 55-; evaluation & rehab. center, Ala. Sch. Trades, Gadsden, 59-; rehab. center for crippled, Huntsville & State Training School for Girls, Chalkville, 60- U.S.A, 46-48. Psychol. Asn; Soc. Multivariate Exp. Psychol. Psychological evaluation and measurement; investigation of process and outcome of psychotherapy; personality test construction. Publ: Multivariate analysis of a vocational rehabilitation system, Multivariate Behav. Res. Monogr, 66; The relation of age, education and personality characteristics to military rank in an army reserve unit: a brief note, J. Counseling Psychol, 67; Multivariate analysis of a rehabilitation system: cross validation and extension, Multivariate Behav. Res, 67. Address: 1430 W. Peachtree Bldg, Suite 508, Atlanta, Ga. 30309.

EBERHARD, PROF. WOLFRAM, b. Potsdam, Germany, Mar. 17, 09; m. 34; c. 2. SOCIOLOGY. Ph.D, Berlin, 33. Res. asst, Mus. Anthrop, Berlin, 29-34; asst. prof, Peking & Peiping, 34-35; head Asiatic Dept, Mus. Anthrop, Leipzig, 36; prof. Chinese, Ankara, 37-48; lectr, CALIFORNIA, BERKELEY, 48-49, assoc. prof. SOCIOL, 49-52, PROF, 52- Guggenheim Mem. Found. fel, 51; vis. prof, Heidelberg, 64, Taiwan, 67; prin. investr, Chinese family life study, San Francisco & Taiwan, 66-68. Consult, Asia Found, 56-58, 60- Mem. Int. Union Orientalists. Sociol. Asn; Oriental Soc; cor. mem, German Acad. Sci. & Lit; cor. mem. Bavarian Acad. Sci. Sociology of Asia; Chinese astronomy, folklore and cultural and social history; Turkish folklore. Publ: Minstrel tales from Southeast. Turkey; Sin and guilt in traditional China, Univ. California, Berkeley, 67; Settlement and social change in Asia, Univ. Hong Kong, 67. Address: Dept. of Sociology, University of California, Berkeley, Calif. 94720.

EBERHART, PROF. E(NNIS) KINGMAN, b. Des Moines, Iowa, Oct. 31, 05; m. 29; c. 2. ECONOMICS. A.B, Simpson Col, 28; Roberts fel, Columbia, 28-29, A.M, 29; Pittsburgh, 30-32; univ. fel, Wisconsin, 45-46, Ph.D, 49. Instr. ECON, Pittsburgh, 29-38; asst. prof, COL. WOOSTER, 38-48, assoc. prof, 48-49, PROF, 49-, CHMN. LIBERAL STUDIES, 67-, dept. econ, 60-67. Coordinator aerial navig. staff, Naval Flight Prep. Sch, 43-44. Am. Econ. Asn; Indust. Rel. Res. Asn; Acad. Polit. & Soc. Sci; Royal Econ. Soc. Labor relations and economic institutions; discrimination against American minorities in the labor market. Publ: Economics and cultural change; When you buy; Economic institutions and cultural change. Address: 726 E. Wayne Ave, Wooster, Ohio 44691.

EBERHART, PROF. HAL, b. Superior, Nebr, Dec. 19, 22; m. 66; c. 1. ANTHROPOLOGY. B.A, California, Los Angeles, 49, M.A, 52, Ph.D.(anthrop), 57. Mus. technician, California, Los Angeles, 52-53; appl. scientist, Pan Am. World Airways, 57-58; asst. prof. ANTHROP, CALIF. STATE COL. LOS ANGELES, 58-63, assoc. prof, 63-67, PROF, 67- Lectr, univ. col, Southern California, 58-64. U.S.A.A.F, 43-46, S/Sgt. Fel. Anthrop. Asn; Soc. Am. Archaeol. Archeology of North America; primitive technology; human ecology. Publ: Co-auth, Archaeological resources of San Nicolas Island, California, 53 & auth, The cogged stones of Southern California, 61, Am. Antiquity; co-auth, An archaeological survey of Mutau Flat, Ventura County, California, Calif. Archaeol. 5, 63. Address: Dept. of Anthropology, California State College at Los Angeles, Los Angeles, Calif. 90032.

EBERHART, DR. JOHN C(AROL), b. Lima, Ohio, Dec. 26, 07; m. 37; c. 1. PSYCHOLOGY. B.A, Oregon, 29; M.A, Northwestern, 31, Payne Fund fel, 31-33, Ph.D.(psychol), 34. Asst. psychol, Northwestern, 29-31, 33-34, dir. new students & lectr. psychol, 34-36, instr, 36-41, asst. prof, 41-46; chief survs. design sect, Vet. Admin, 46-47; training specialist psychol, Nat. Inst. Ment. Health, 47-49, chief res. grants & fel. br, 49-54; exec. assoc, Commonwealth Fund, 54-61; assoc. dir. intramural res, NAT. INST. MENT. HEALTH, 61-67, DIR. MENT. HEALTH INTRAMURAL RES. PROG, 67- Soc. Sci. Res. Coun. fel, Harvard & U.S. House Rep, 40-41 & 46. U.S.N, 43-46. Fel. Psychol. Asn. Attitude development and measurement; opinion surveys; political and group behavior. Address: National Institute of Mental Health, Clinical Center, Bethesda, Md. 20014.

EBERLING, PROF. ERNEST J, b. Syracuse, N.Y, Sept. 28, 94. ECONOMICS. A.B, Syracuse, 18, A.M, 20; Gilder fel, Columbia, 20-21, Ph.D, 28. Prof. econ, Westminster Col, 21-23; VANDERBILT, 23-64, EMER. PROF. ECON. & BUS. ADMIN, 64- Dir. res. & statist, State Unemploy. Compensation Div. & Dept. Employ. Security, Tenn. Expert consult, Secy. of War, 42-45; consult, U.S. war manpower cmn, U.S. Bur. Labor Statist. Chmn. U.S. task force cmt. employ. serv. & unemploy. compensation, U.S. Cmn. Intergovt. Rels; U.S. Labor & Soc. Security Cmn, Japan, 46. Labor economics; insurance; adequacy of unemployment compensation. Address: 3607 Bellwood Dr, Nashville, Tenn. 37205.

EBERSOLE, DR. LUKE, b. Hershey, Pa, Oct. 18, 18; m. 40; c. 2. SOCIOLOGY. A.B, Elizabethtown Col, 40; M.A, Pennsylvania, 45, Ph.D.(sociol), 50. Instr. sociol, Maryland, 45-51; asst. prof, TENNESSEE, 52-53, assoc. prof, 53-56, prof, 56-66, asst. dean COL. LIB. ARTS, 66-68, ASSOC DEAN, 68- Sociol. Asn. Social psychology, organization and movements. Publ: Church lobbying in the nation's capital; American society; Religion and politics, Ann. Am. Acad. Polit. & Soc. Sci. Address: 404 Physics Bldg, University of Tennessee, Knoxville, Tenn. 37916.

EBERT, PROF. CHARLES H(ORST) V(INCENT), b. Hamburg, Germany, June 23, 24; U.S. citizen; m. 49; c. 1. GEOGRAPHY, POLITICAL SCIENCE. B.A, North Carolina, 51, fels, 50-51 & 52-54, M.A, 54, Ph.D, 57. Instr. GEOG, STATE UNIV. N.Y. BUFFALO, 54-56, asst. prof, 56-59, assoc. prof, 59-63, PROF. & CHMN. DEPT, 63- Am. Philos. Soc. grant land use res, Guatemala, 64; Univ. Res. Found. grants, field work, Saudi Arabia, 63, res, Costa Rica, 65, London, 66, field work, Afghanistan, 67. U.S.A, 46-50, Sgt. Asn. Am. Geog. Soils and land use correlation; regional geography of Europe and the Union of Soviet Socialist Republics; climatology; parameters of fire storm development, especially on atmospheric phenomena. Publ: The meteorological factor in the Hamburg fire storm, Weatherwise, Am. Meteorol. Soc, 4/63; Water resources and land use in the Qatif Oasis of Saudi Arabia, The Geog. Rev, 10/65; Soils and land use potentials in the Central Polochic Valley of Eastern Guatemala, Year Book, Am. Philos. Soc, 65. Address: Dept. of Geography, State University of New York at Buffalo, Buffalo, N.Y. 14214.

EBERTS, DR. PAUL ROBERT, b. Wheeling, W.Va, Jan. 28, 32; m. 54; c. 1. SOCIOLOGY. A.B, Heidelberg Col, 53; B.D, Yale, 56; M.A, Michigan, 58, Ph.D.(sociol), 63. Teaching fel. sociol, Michigan, 57-59, instr, 59-61; ASST. PROF, Harpur Col, State Univ. N.Y, 61-65; RURAL SOCIOL, CORNELL, 65- Res. grants, U.S. Dept. Agr. & N.Y. State, 66- Sociol. Asn; Nat. Coun. Family Rels; Rural Sociol. Soc. Organization of political cleavages between population segments; changes in political cleavages between population segments; community and regional differentiation, organization, growth, development and conflict; structures of elite organizations; changes in elite organizations. Publ: Changes in political attitudes by socio-religious groupings, Sociol. Focus, 68; co-auth, Community structures and crime rates, Criminologica, 68 & Measures of community development, In: Community development, Rural Sociol. Soc, 68. Address: Dept. of Rural Sociology, 324 Warren Hall, Cornell University, Ithaca, N.Y. 14850.

EBEY, DR. GEORGE WILLIAM, b. San Jose, Calif, June 1, 07; m. 33; c. 2. ECONOMICS, EDUCATION. B.A, Stanford, 29; Ph.D.(ed), Columbia, 40. Lectr. ed, Stanford, 46; prof. sec. ed, Chico State Col, 46-48; asst. supt, pub. schs, Ore, 48-52; dep. supt, pub. schs, Tex, 52-53; head ed. & manpower res, behav. sci. group, Stanford Res. Inst, 53-57; v.pres, Consol. Freightways, Inc, 58-60; pres, George Ebey Assocs, 60-62; dir. res. & planning, Col. San Mateo, 62-65; V.PRES, MGT. & ECON. RES. INC, 65- Lectr, California, Berkeley, 60; pres, Pac. Res. Center, Inc, 65- U.S.A.A.F, 42-46, Maj; Legion of Merit, 45. Education and manpower, especially organization planning, curriculum development, personnel management, education technology, facility planning. Publ: Co-auth, Organization and personnel relations, Stanford Res. Inst, 55, Strengthening industry—education cooperation in northern California, Pac. Res. Center, Inc, 67 & Regional planning of public facilities, Mgt. & Econ. Res. Inc, 67. Address: 4027 Scripps Ave, Palo Alto, Calif. 94306.

EBLEN, DR. JACK E, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EBLING, DR. WALTER H(ENRY), b. Richfield, Wis, Jan. 15, 92; m. 24; c. 3. AGRICULTURAL ECONOMICS, STATISTICS. B.S.A, Wisconsin, 22, M.S, 25, Ph.D.(agr. econ), 29. Teacher, pub. schs, Wis, 12-17; asst. to dean, col. agr, Wisconsin, Madison, 22-27, prof. agr. econ, 36-66, for. visitor consult, 59-66, mem. staff library res, dept. agr. econ, 66-68; RETIRED. Agr. statistician, bur. agr. econ, U.S. Dept. Agr, 27-59, chmn. state bd. rev, agr. adjust. admin, 34; agr. statistician, State Dept. Agr, Wis, 27-59. Mem, State Defense Bd, Wis; chmn. res. cmt, Field Seed Inst. N. Am, 44. Distinguished serv. award, U.S. Dept. Agr, 51. U.S.A, 18-19, Lt. Farm Econ. Asn; Statist. Asn; Agr. Hist. Soc. Wisconsin agriculture, dairying and geography. Publ: Evolution of agricultural data systems. Address: 726 Seneca Place, Madison, Wis. 53711.

EBY, PROF. K(ERMIT), Soc. Sci, see 10th ed, Soc. & Behav. Vols, deceased 62.

ECHEVARRIA, DR. OSCAR A, b. Havana, Cuba, June 24, 35. ECONOMICS. B.S, Villanueva, 60; Ph.D.(econ), Georgetown, 66. Asst. secy, Dept. Commerce, Cuba, 59-60; comptroller, Fernandez Assocs, 61-63; SR. ECONOMIST, INTER-AM. DEVELOP. BANK, 66- Lectr, Georgetown, 65- Comptroller, Editorial Echevarria, 56-60. Econ. Asn. Comparative economic systems; Cuban economy. Publ: Democracia y bienestar, Villanueva, 60; La reforma agraria Cubana, Problemas de Comunismo, 3/67; Analisis sectorial, Trimestre Economico, 6/67. Address: P.O. Box 3559, Washington, D.C. 20007.

ECHOLS, PROF. JOHN M(INOR), b. Portland, Ore, Mar. 25, 13; m. 41; c. 3. ANTHROPOLOGICAL LINGUISTICS. B.A, Virginia, 37, M.A, 38, Ph.D.(ling), 40. Assoc. prof. lings, & dept. dir. sch. langs. & lings, for. serv. inst, U.S. Dept. State, D.C, 47-52; assoc. prof. LINGS, CORNELL, 52-56, PROF, 57-, chmn. dept. Far East. Studies, 56-61. Dir. consult, Indonesian Eng. lang. teaching prog, Ford Found, 52-55; summer, instr, Chicago, 47. Award, U.S. Dept. State, 51. U.S.N, 42-47, Lt. Comdr. Fel. Anthrop. Asn; Ling. Soc; Asn. Asian Studies. Malayan languages of Indonesia, Malaya and Philippines; literatures of Southeast Asia. Publ: Indonesian writing in translation; co-auth, An Indonesian-English dictionary. Address: Southeast Asia Program, Cornell University, Ithaca, N.Y. 14850.

ECK, DR. THEODORE R, b. Lansing, Mich, Mar. 10, 33; m. 52; c. 4. ECONOMICS, FINANCE. B.A, Mich. State, 52, Fed. Reserve Bank Chicago grant, 57-58, Hinman fel, 58, Ph.D.(econ), 59; M.A, Michigan, 53. Economist, Fed. Reserve Bank of Dallas, 59-60; assoc. prof. finance & acting chmn. dept, Southern Methodist, 60-63; CHIEF ECONOMIST, CREOLE PETROL. CORP, 63- Fulbright prof, Univ. Carabobo, 62-63. Consult, Parker Ford & Co, 61-63. U.S.A, 53-55, Res, 55-, Capt. Central and investment banking; non-bank financial institutions; petroleum economics. Address: Creole Petroleum Corp, Caracas, Venezuela.

ECKARD, DR. (EDWIN) WOODROW, b. Point Pleasant, W.Va, Nov. 6, 11; m. 42; c. 3. ECONOMICS. A.B, Marshall Col, 30; fel, Duke, 34-37, M.A, 35, Ph.D.(econ), 37. Prof. econ, Concord Col, 37-46; Arkansas, 46-52; div. economist, servs. div, Off. Price Stabilization, 52-53; proj. evaluator, Martin Co, Md, 53-62; TRANSPORTATION ECONOMIST, LOCKHEED-GA. CO, 62- Economist, War Prof. Bd, 41-42. U.S.N, 42-46, Lt. Comdr. Econ. Asn. Business trends; defense expenditures; Southern economic development. Publ: Economics of W.S. Jevons; Air cargo growth study, MRS 49, 65 & Air cargo profitability, CMRS 93, 68, Lockheed-Ga. Co. Address: 4830 Woodvale Dr. N.W, Atlanta, Ga. 30327.

ECKAUS, PROF. RICHARD S, b. Kansas City, Mo, Apr. 30, 26; m. 51; c. 1. ECONOMICS. B.S, Iowa State Col, 46; A.M, Washington (St. Louis), 48; Ph.D.(econ), Mass. Inst. Tech, 54. Instr. & asst, Washington (St. Louis), 46-48; instr, Babson Inst. Bus. Admin, 48-50; from asst. prof. to assoc. prof. ECON, Brandeis, 50-62; res. assoc. MASS. INST. TECH, 50-61, PROF, 62-, RES. ASSOC, CENTER INT. STUDIES, 61- Fels, Soc. Sci. Res. Coun, 61-62; Guggenheim, 62; Ford. Found. faculty, 65-66. U.S.N.R, 42-46, Lt.(jg). Econ. Asn; Economet. Soc. Economic theory; underdeveloped areas. Publ: Factor proportions problem in underdeveloped areas, Am. Econ. Rev; Planning in India, In: National economic planning, Nat. Bur. Econ. Res, Columbia, 67. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

ECKELBERRY, DR. ROBERT L, b. Cameron, Mo, Aug. 11, 38; m. 60. POLITICAL SCIENCE. B.A, American Univ, 59; Stockholm, 60-61; M.A, Cent. Mo. State Col, 61; Ph.D.(polit. sci), Nebraska, 64; J.D, Denver, 68. Asst. prof. POLIT. SCI, Kans. State Teachers Col, 63-64; ASSOC. PROF, DENVER, 64- Scandinavian, British and Soviet government; constitutional law. Address: Dept. of Political Science, University of Denver, Denver, Colo. 80210.

ECKER, PROF. HAROLD J, b. Fostoria, Ohio, May 1, 22; m. 44; c. 2. AGRICULTURAL EDUCATION. B.Sc, Ohio State, 55, M.Sc, 56, Ph.D.(agr. econ), 59. Owner, Smith Farm Popcorn Co, Ohio, 47-53; instr. agr. econ, Ohio State, 54-59; assoc. prof, INST. AGR. TECH, MICH. STATE, 59-65, PROF, 65-, DIR, 67- Danforth assoc, Mich. State, 59-63. Mem. panel two year progs. agr, cmt. ed. agr. & natural resources, Nat. Acad. Sci, 67- U.S.N, 43-46, 53-54, Lt. Agr. Econ. Asn; Mkt. Asn. Grain marketing; technical education programs in agriculture and natural resources; agricultural business. Publ: Co-auth, Seasonal and geographic variations in grain prices, Ohio Agr. Exp. Sta, 57; Report on two year technical programs in agriculture and natural resources, Nat. Acad. Sci, 68. Address: 155 Lexington, East Lansing, Mich. 48823.

ECKER, DR. PAUL, b. Appleton, Wis, May 15, 22; m. 45; c. 1. ECONOMICS. B.A, Pomona Col, 48; fel, Oberlin Col, 49; M.A, Claremont Cols, 50, Ph.D. (econ), 67. Lab. technician physics, Kimberly Clark Paper Corp, 40-42, 45-46; instr. econ, San Jose State Col, 49-52, asst. prof. & assoc. dir, inst. indust. rels, 52-55, assoc. prof, 55-57, dir, North. Calif. coun. econ. ed, 56; California, 57; assoc. prof. MGT, U.S. NAVAL POSTGRAD. SCH, 57-59, PROF, 59-, ACAD. COORDINATOR MGT. SCH, 61-, EXEC. DIR, NAVY MGT. SYSTS. CENTER, 65-, chmn. dept. bus. admin. & econ, 62-65. Consult, County Santa Cruz, Calif, 60-61; Govt. Italy, Can, Germany & France, 65- U.S.N.R, 42-45, Lt.(jg). Econ. Asn; Acad. Mgt. Labor relations in government employment; quantitative decision making in military management; psychological determinants of military behavior; human factors in systems analysis. Publ: Dial-accoun: basic accounting aid; Naval contract administration; co-auth. & ed, Handbook for Supervisors. Address: Meadow Place, Carmel Valley, Calif. 93924.

ECKERMAN, DR. DAVID ALAN, b. Manchester, N.H, Mar. 9, 39; m. 64. PSYCHOLOGY. A.B, Hamilton, Col, 61; Ph.D.(psychol), Columbia, 66. Res. scientist, Columbia, 63-66; ASST. PROF. PSYCHOL, NORTH CAROLINA, CHAPEL HILL, 66- Stimulus control of behavior; response mediation of discriminative control; response shaping. Publ: Co-auth, Stimulus control of a differentiated operant, 65 & auth, Stimulus control by part of a complex S^{D}, 67, Psychonomic Sci, co-auth, Acquisition and maintenance of matching without a required observing response, J. Exp. Anal. Behav, 68. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27514.

ECKERMAN, DR. WILLIAM C, b. Saginaw, Mich, Oct. 29, 34; m. 60; c. 2. SOCIAL PSYCHOLOGY. B.A, Michigan, 56, M.S, 57, Ph.D.(soc. psychol), 63. Res. asst, Ment. Health Res. Inst, Mich, 59-60; asst. study dir, Surv. Res. Center, Mich, 60-63, study dir, 63-64, asst. field dir, 64-65; sr. res. consult, Mich. Health & Soc. Security Res. Inst, Detroit, 65-66; SR. SOC. PSYCHOLOGIST, RES. TRIANGLE INST, 67- Psychol. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues. Motivational research in achievement and work related motivation. Publ: Co-auth, Public concepts of the values and costs of higher education, Surv. Res. Center Monogr. Series 37, 64. Address: Research Triangle Institute, P.O. Box 12194, Research Triangle Park, N. C. 27709.

ECKER-RACZ, DR. L. LASZLO, b. Hungary, Nov. 25, 06. ECONOMICS. B.S, Harvard, 30, univ. fel, 31, Ph.D, 35; Budapest, 32; univ. fel, Columbia, 32-33. Chief munic. finance sect, Fed. Emergency Relief Admin, 33-36; economist, U.S. Dept. Treas, 36-60, dir. tax adv. staff, 39-43; asst. dir. Adv. Cmn. Intergovt. Rels, 60-66; RES, WRITING & TEACHING, 66- Lectr, George Washington, 39; American Univ, 49, 50; vis. scholar, Hartford, 67- Fiscal consult, Mich. Tax Study Cmn, 38-39; chmn. N.Va. Fiscal Surv; econ. adv, U.S. Mission, Hungary, 45-46. U.S.A, 43-44, Maj. Fiscal and tax problems. Address: 1318 24th St. S, Arlington, Va. 22202.

ECKERT, DR. JAMES B(ERNARD), b. Albion, Pa, May 21, 12; m. 53; c. 3. ECONOMICS. A.B, Oberlin Col, 34; M.A, Cincinnati, 36; Ph.D.(econ), Cornell, 47. Instr. econ, Cornell, 36-40; Rochester, 40-42; economist, Off. Price Admin, 42-47; fiscal economist, Bur. Budget, 47-51; from economist to assoc. econ. adv, Econ. Stabilization Agency, 51-53; economist, Bd. Gov. FED. RESERVE SYST, 53-54, CHIEF BANKING SECT, DIV. RES. & STATIST, 54-, ASST. ADV, 67- Econ. Asn; Finance Asn. Money and banking; public finance. Publ: Ed. & contrib, Studies in price control, pricing standards. Address: 4584 Indian Rock Terr. N.W, Washington, D.C. 20007.

ECKERT, RALPH GLENN, b. Lexington, Ohio, Feb. 13, 06; m. 35; c. 3. FAMILY RELATIONS. A.B, California, 31, Ph.D.(ed. psychol), 40; M.A, Southern California, 34. Instr. speech & debate, San Jose State Col, 32-40; instr. psychol. & counselor, Stockton Col, 40-46; parent ed. consult, State Dept. Ed, Calif, 46-51; asst. supt, Tulare County Schs, 51-52; prof. family rel, Connecticut, 53-60, dir. counseling & guid, off. supt. schs, Riverside County, 60-67; COUNSR, CALIF. STATE COL. LONG BEACH, 67- Consult, Asn. Press, 53; Am. Soc. Hyg. Asn, 55-56. Secy, Nat. Coun. Family Rel, 51. Psychol. Asn; Asn. Marriage Counsr. Sex and marriage education; marriage counseling. Publ: Sex attitudes in the home; So you think it's love; Handbook on parent education. Address: Counseling Center, California State College at Long Beach, Long Beach, Calif. 90804.

ECKHARDT, DR. KENNETH W(ALTER), b. Milwaukee, Wis, Oct. 6, 33; m. 59; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Beloit Col, 55; M.A, Wisconsin, 60, Russell Sage fel, 64-65, Ph.D.(sociol), 65. Instructr. SOCIOL, Alma Col, 61-64; ASST. PROF, COL. WOOSTER, 65- U.S.A, 55-57, Sgt. Sociol. Asn; Soc. Study Social Probs; Law & Society Asn. Sociology of deviancy and social control. Publ: Co-auth, Dissonance-congruence and perception of public opinion, Am. J. Sociol, 9/67 & Transformation of alientation into public opinion at the polls, Sociol. Quart, fall 67; auth, Deviance, visibility and legal action: the duty to support, Soc. Probs, spring, 68. Address: Dept. of Sociology, College of Wooster, Wooster, Ohio 44691.

ECKHARDT, DR. WILLIAM, b. Philadelphia, Pa, Sept. 21, 18; m. 42; c. 4. CLINICAL & SOCIAL PSYCHOLOGY. B.A, Swarthmore Col, 53, M.S, Richmond Prfnl. Inst, 54; Ph.D.(psychol), Kentucky, 61. Asst. psychologist, State Hosps, Raleigh, N.C, 54-55, chief psychologist, Morgan N.C, 55-58; instr. psychol, Bowling Green State, 60-61; clin. psychologist, Clarinda Post-Hosp. Clin, Des Moines, Iowa, 61-62; chief psychologist, Broadlawns Hosp, 62-65; Col. Osteop. Med. & Surg, 65-67; RES. PSYCHOLOGIST, CAN. PEACE RES. INST, 67- Instr, Kentucky, 59-60; teacher, Iowa, 61-67; asst. prof, Col. Osteop. Med. & Surg, 65-67. Psychologist, Child Guid Clin, Lexington, Ky, 59-60; Ment. Health Clin, Bowling Green, Ky, 60-61; State Hosp, Hopkinsville, Ky, 60-61. U.S.A.A.F, 44-46. Soc. Psychol. Study Soc. Issues; Psychol. Asn; Int. Peace Res. Asn. Rorschach's test, self-acceptance and values in relations to mental health, alcoholism, civil rights and prejudice, value-analyses of political ideologies, attitudes in relation to war and peace. Publ: War propaganda, welfare values, and political ideologies, J. Conflict Resolution, 9/65; Alcoholic values and alcoholics anonymous, Quart. J. Studies Alcohol, 6/67; Co-auth, Factors of war/peace attitudes, Peace Res. Rev, 10/67. Address: Canadian Peace Research Institute, Oakville, Ont, Can.

ECKLAND, DR. BRUCE KENT, b. Chicago, Ill, Mar. 19, 32; m. 59; c. 3. SOCIOLOGY. B.S, Illinois, 57, M.A, 60, Ph.D.(sociol), 64. Instr. SOCIOL, Connecticut, 62-64; asst. prof, NORTH CAROLINA, 64-66, ASSOC. PROF, 67- Res. assoc, Inst. Res. Soc. Sci, 65-; vis. res. sociologist, Ed.Testing Serv, 66-67. Sociol. Asn. Sociology of education; social stratification; biosociology. Publ: College dropouts who came back, Harvard Ed. Rev, summer 64; Academic ability, higher education, and occupational mobility, 10/65 & Genetics and sociology: a reconsideration, 4/67, Am. Sociol. Rev. Address: Dept. of Sociology, University of North Carolina, Chapel Hill, N.C. 27515.

ECKLER, DR. A(LBERT) ROSS, b. Van Hornesville, N.Y, May 22, 01; m. 24; c. 2. ECONOMICS. A.B, Hamilton Col, 22, hon. D.Sc, 66; A.M, Harvard, 28, Ph.D, 34. Statistician, Harvard Econ. Soc, 24-31; asst. librn. & instr. sch. bus, Harvard, 31-35; chief spec. studies & asst. dir. res, Works Progress Admin, 35-39; chief econ. statist. & asst. chief pop. div, BUR. CENSUS, 39-42, chief spec. survs. div, 43-45, chief soc. sci. analyst, 45-47, asst. dir, 47-49, dep. dir, 49-65, acting dir, 65, DIR, 65- Adv, int. conf. labor statisticians, Int. Labor Orgn, 47, alternate del, Switz, 54, 57; U.S. del, Int. Statist. Inst. Conf, India, 51, Sweden, 57, Japan, 60, France, 61, Can, 63, Yugoslavia, 65, Australia, 67. U.S. alternate del, cmn. improv. nat. statist, Inter-Am. Statist. Inst, Argentina, 58; mem. conf. res. income & wealth, Nat. Bur. Econ. Res. Gold medal award, Dept. Commerce, 61; Nat. Civil Serv. League award, 62. Fel. Statist. Asn.(v.pres, 67, pres. elect, 68); Pop. Asn. Am; Econ. Asn; Int. Union Sci. Study Pop; Int. Statist. Inst. Planning and administration of censuses and surveys in the fields of economics and demography. Publ: A measure of the severity of depressions, 1873-1932, Rev. Econ. Statist; Present central station capacity in the electric power industry, Harvard Bus. Rev; Extent and character of errors in the 1950 censuses of population and housing, Am. Statistician. Address: 3643 Brandywine St. N.W, Washington, D.C. 20008.

ECKLES, DR. E(LVIS) L(UVERNE), Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

ECKLEY, DR. ROBERT S(PENCE), b. Kankakee, Ill, Sept. 4, 21; m. 47; c. 4. ECONOMICS. B.S, Bradley, 42; M.B.A, Minnesota, 43; fel, Harvard, 48-49, M.A, 48, Ph.D, 49. Asst. prof. econ, Kansas, 49-51; indust. economist, Fed. Reserve Bank Kansas City, 51-54; MGR. BUS. ECON. DEPT, CATERPILLAR TRACTOR CO, 54- U.S.C.G.R, 43-46, Lt.(jg). Econ. Asn; Statist. Asn. Business and international economics; theory of economic growth. Publ: Company action to stabilize employment, Harvard Bus. Rev, 7-8/66. Address: 3911 N. Bigelow, Peoria, Ill. 61614.

ECKMAN, DR. JAMES R(USSELL), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ECKSTEIN, DR. ALEXANDER, b. Novisad, Yugoslavia, Dec. 9, 15; nat; m. 47; c. 1. ECONOMICS. B.S, California, 39, M.S, 41, Ph.D.(agr. econ), 52; Soc. Sci. Res. Coun. fel, Geneva, 49-50. Economist, Food & Agr. Orgn, 46-49, 50-51; sr. economist, Div. Res. Far East, U.S. Dept. State, 51-53; res. assoc, Russian Res. Center, Harvard, 53-56, lectr. econ, 56-59; Haloid prof. int. econ, Rochester, 59-61; PROF. ECON, MICHIGAN, 61-, DIR. CENTER CHINESE STUDIES, 67- Mem, Coun. For. Rels. Econ. Asn; Asn. Asian Studies. Economic growth and development; national income analysis; Far Eastern economics. Publ: National income of communist China; Communist China's economic development and foreign trade, McGraw, 66; National income and capital formation in Hungary, 1900-1950, In: Income & wealth. Address: Dept. of Economics, University of Michigan, Ann Arbor, Mich. 48104.

ECKSTEIN, PROF. HARRY, b. Germany, Jan. 26, 24; nat; m. 53; c. 1. POLITICAL SCIENCE. A.B, Harvard, 48, M.A, 50, fel, 51-53, Ph.D.(polit. sci), 53. Instr. govt, Harvard, 54-56, asst. prof, 56-58; fel, Center Adv. Study Behav. Sci, 58-59; assoc. prof. POLIT, PRINCETON, 59-61, PROF, 61-, RES. ASSOC, CENTER INT. STUDIES, 59- Ed, World Polit, 60- U.S.A, 43-45, Sgt.

Polit. Sci. Asn. Comparative politics; political sociology. Publ: Co-auth, Internal war, 63 & Comparative politics, 64, Macmillan; Division and cohesion in democracy, Princeton. Address: Corwin Hall, Princeton University, Princeton, N.J. 08540.

ECKSTEIN, PROF. OTTO, b. Ulm, Germany, Aug. 1, 27; nat; m. 54. ECONOMICS. A.B, Princeton, 51, hon. LL.D, 66; A.M, Harvard, 52, Ph.D, 55. From instr. to PROF. ECON, HARVARD, 55- Tech. dir, Joint Econ. Cmn. U.S. Cong, 59-60. Ed, Rev. Econ. & Statist, 62- Mem, Coun. Econ. Adv, 64-66; Nat. Adv. Cmt. Econ. Opportunity, 67- U.S.A, 46-47. Econ. Asn; Economet. Soc. Public finance; economic theory. Publ: Water resource development; Public finance, 2nd ed, Prentice-Hall, 67; Investment criteria for economic development, Quart. J. Econ. Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

ECKSTRAND, DR. GORDON ALAN, b. St. Paul, Minn, Aug. 24, 21; m. 47; c. 4. PSYCHOLOGY. B.S, Northwestern, 43, M.A, 47, Ph.D.(psychol), 49. Asst, Northwestern, 47-48; res. psychologist, psychol. br, AEROSPACE MED. LAB, DAYTON, 49-52, chief trainer res. sect, 52-56, asst. chief, psychol. br, 56-58, CHIEF TRAINING RES. DIV, 58- Mem. cmt. bioastronaut, panel psychol, Armed Forces-Nat. Res. Coun, 59-61. U.S.A, 43-45. Psychol. Asn; Ed. Res. Asn. Human learning and transfer of training; bioastronautics. Address: 245 Country Club Dr, Xenia, Ohio 45385.

EDDE, DR. RICHARD, b. Cairo, Egypt, July 12, 18; U.S. citizen. ECONOMICS. B.S, N.Y. Univ, 50, M.B.A, 51; Columbia, 51-57; Ph.D.(econ. acct), Paris, 63. Asst. credit mgr, Baer Custodian Corp, N.Y, 51-56; credit mgr, C.I.T. Corp, 56-58; partner importing, Int. Trade Counter, 58-60; lectr. ECON, Ecole des Cadres, Paris, 60-63; instr, Ricker Col, 63-64; ASST. PROF, ST. JOHN'S (N.Y), 64- U.S.A, 43-46, S/Sgt. Econ. Asn; Acad. Polit. & Soc. Sci. Social accounting. Publ: The national income triple optical aberration, Revue Economique (Paris), 9/64. Address: Dept. of Economics, St. John's University, Jamaica, N.Y. 11432.

EDDIE, DR. SCOTT McNEIL, b. Northwood, N.Dak, Nov. 28, 35; m. 59; c. 3. ECONOMICS, ECONOMIC HISTORY. B.S, Minnesota, 60, Woodrow Wilson fel, 60-62; Fulbright scholar. & Nat. Defense fel, Vienna, 62-63; Soc. Sci. Res. Coun. fel, Mass. Inst. Tech, 63-64, Ph.D.(econ), 67. Asst. prof. econ, Williams Col, 64-67; res. staff economist, ECON. GROWTH CENTER, YALE, 67, VIS. RES. FEL. ECON, 67- Nat. Sci. Found. fel, 67-69. U.S.A, 55-58. Am. Econ. Asn; Am. Econ. Hist. Asn; Econ. Hist. Soc, Brit. Economic history and development, especially agricultural development; non-Russian eastern Europe. Publ: Co-auth, Economic growth and productivity in the United States, Canada, United Kingdom, Germany and Japan in the post-war period, Rev. Econ. & Statist, 2/64; auth, The changing pattern of landownership in Hungary, 1867-1914, Econ. Hist. Rev, 8/67; Agricultural output and production per worker in Hungary, 1870-1913, J. Econ. Hist, 6/68. Address: Economic Growth Center, Yale University, Box 1987 Yale Station, New Haven, Conn. 06520.

EDDISON, DR. JOHN C(ORBIN), b. New York, N.Y, Nov. 4, 19; m. 51; c. 3. ECONOMICS. A.B, Cornell, 42, M.S, 48; Ford Found. fel, Mass. Inst. Tech, 53-54, Ph.D.(econ), 55. Methods engr, Campbell Soup Co, N.J, 49-51; sr. indust. consult, P.R. Indust. Develop. Co, 55-56; asst. to rep, Ford Found, Burma, 56-57; econ. adv, Govt. W.Pakistan, 58-61; planning cmn, Govt. Pakistan, 61-63; dep. dir, U.S. Aid Mission, La Paz, 63-65; Cent. Am. Affairs, State Dept, D.C, 65-68; DIR. NEAR EAST. AFFAIRS, AGENCY INT. DEVELOP, 68- C.Eng, 42-46, Capt. Econ. Asn. Economic development; industrial and labor economics. Publ: Case study of industrial development, the growth of the Indian pulp and paper industry; Industrial location and physical planning in Pakistan, In: Pakistan development review. Address: 202 Primrose St, Chevy Chase, Md. 20015.

EDDS, DR. JESS H(OBART), b. Hancock Co, Tenn, Sept. 23, 97; m. 24; c. 3. PSYCHOLOGY. A.B, Lincoln Mem. Univ, 23; M.A, George Peabody Col, 28, Ph.D.(ed. psychol), 30. Teacher & prin, high sch, Tenn, 24-28; asst. ed. psychol, George Peabody Col, 29-30; prof. psychol. & ed. psychol, Milligan Col, 30-32; assoc. prof. PSYCHOL, LINCOLN MEM. UNIV, 33-34, PROF, 34-, head dept, 35-62. U.S.N, 17-19. AAAS; Psychol. Asn. Educational psychology; tests and measurements; statistics. Address: Dept. of Psychology, Lincoln Memorial University, Harrogate, Tenn. 37752.

EDDY, DR. ELIZABETH M(ARIE), b. Albany, N.Y, Jan. 8, 26. SOCIAL PSYCHOLOGY. B.A, Wellesley Col, 47; M.A, Columbia, 58, Ph.D.(soc. psychol), 61. Dir. Christian ed, St. Andrew's Church, Mass, 47-50; Christ Church, Ill, 50-54; St. Paul's Church, Va, 54-57; res. asst. to asst. proj. dir, res. center, N.Y. Sch. Soc. Work, Columbia, 60-63; proj. dir. res, Hunter Col, 63-67; ASSOC. PROF. SOCIOL. & DIR. URBAN STUDIES BUR, FLORIDA, 67- Lectr, Teachers Col, Columbia, 65; vis. lectr, State Univ. N.Y. Stony Brook, 67. Consult, Culture Schs. Prog, 66-67. AAAS; Psychol. Asn; Sociol. Asn; Anthrop. Asn; Soc. Appl. Anthrop; Soc. Study Social Probs. Social organization; urban sociology; sociology of education. Publ: Walk the white line: a profile of urban education, Doubleday, 67; co-auth, Rehabilitation for the unwanted, Atherton, 67; Attitudes toward desegregation among southern students on a northern campus, J.Soc. Psychol, 4/64. Address: 1642 N.W. 14th Ave, Gainesville, Fla. 32601.

EDDY, PROF. G(EORGE) NORMAN, b. Boston, Mass, Sept. 17, 06; m. 29; c. 2. SOCIOLOGY. M.A, New Hampshire, 31; Ph.D.(sociol), Duke, 44. PROF. sociol, Am. Int. Col, 30-45; Macalester Col, 45-46; HUMAN RELS, BOSTON, 46- Sociol. Asn. Sociology of religion; sociology of music. Address: Division of General Education, Boston University, Charles River Campus, Boston, Mass. 02215.

EDDY, DR. WILLIAM BAHRET, b. Parsons, Kans, July 29, 33; m. 59; c. 3. INDUSTRIAL PSYCHOLOGY. B.S, Kansas State, 55, M.S, 57; Ph.D.(indust. psychol), Mich. State, 63. Asst. prof. psychol, Missouri, 62.65, ASSOC. PROF. HUMAN RELS, MISSOURI, KANSAS CITY, 65-, DIR. MGT. DEVELOP, SCH. BUS. & PUB. ADMIN, 66- Res. consult, Greater Kansas City Ment. Health Found. & Inst. Community Studies, 62-67. Assoc, Midwest Div, Nat. Training Labs, 67- Psychol. Asn. Organizational and small group behavior; training and development; industrial mental health. Publ: Validity study of an attitude toward change scale, J. Indust. Psychol, 65; Co-auth, Collective bargaining for federal employees, Bus. & Govt. Rev, 65 & Organizational effects on training, J. Training & Develop, 67. Address: Dept. of Human Relations, University of Missouri, Kansas City, Mo. 64110.

EDEL, DR. MAY M(ANDELBAUM), Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 64.

EDELMAN, DR. MARTIN, b. Brooklyn, N.Y, July 20, 37; m. 60; c. 1. POLITICAL SCIENCE. A.B, City Col. New York, 59; M.A, California, Berkeley, 60, Ph.D.(polit. sci), 67. Asst. prof. POLIT. SCI, California, Los Angeles, 65-67; ASSOC. PROF, GRAD. SCH. PUB. AFFAIRS, STATE UNIV. N.Y. ALBANY, 67- Mem, Civic Ed. Cmt, 67- Polit. Sci. Asn. Public law; political theory; political behavior. Address: Graduate School of Public Affairs, State University of New York at Albany, Albany, N.Y. 12226.

EDELMAN, DR. MILTON T, b. Nanticoke, Pa, Nov. 5, 19; m. 48; c. 4. ECONOMICS. B.S, Chicago, 46; M.B.A, Pennsylvania, 47; fel, Illinois, 50, Ph.D. (econ), 51. Asst. ECON, Illinois, 47-50; instr, SOUTHERN ILLINOIS, 50-53, asst. prof. 53-57, assoc. prof, 57-62, PROF, 62-, co-ed, South. Ill. Bus. Bull, 53-56, acting chmn. dept. econ, 60-61, assoc. dean grad. sch, 65-67. Vis. prof, Hopkins Bologna Center, Italy, 57; summer, Illinois, 61. Br. chief, case anal. div, Wage Stabilization Bd, Mo, 51-52. Arbitrator, 55- Pub. mem, Gov. Adv. Cmn. Labor-Mgt. Policy Pub. Employees, Ill, 66-67. U.S.A.A.F, 43-46, Capt. Econ. Asn; Indust. Rels. Res. Asn. Publ: Co-auth, Plant union-management relations: from practice to theory, Inst. Labor & Indust. Rels, Univ. Illinois, 65; Union participation in plant decision making, Indust. & Labor Rels. Rev; Assessing union-management relationships, Quart. Rev. Econ. & Bus. Address: 1201 W. Hill St, Carbondale, Ill. 62901.

EDELMAN, PROF. MURRAY, b. Nanticoke, Pa, Nov. 5, 19. POLITICAL SCIENCE. A.B, Bucknell, 41; M.A, Chicago, 42; Ph.D, Illinois, 48. Admin. analyst, Fed. Commun. Cmn, 46; instr. POLIT. SCI, Illinois, Urbana, 48-49, asst. prof, 49-53, assoc. prof, 53-58, PROF, 58-66; WISCONSIN, MADISON, 66- Vis. prof, Hopkins Inst. Adv. Studies, Bologna, Italy, 56; Texas, 59; Guggenheim fel. & Am. Found. Automation & Employ. res. grant, 62-63. Consult, Wage Stabilization Bd, 51; Ill. Workmen's Safety Cmn, 54; Chicago Home Rule Cmn, 54. V.pres, Midwest Conf. Polit. Scientists, 67-68. Polit. Sci. Asn; Indust. Rels. Res. Asn. Social psychology and politics; labor and politics; comparative government. Publ: National economic planning by collective bargaining: the formation of Austrian wage, price and tax policy after World War II; The symbolic uses of politics, 64 & co-auth, The politics of wage-price decisions, 65, Univ. Illinois. Address: 1824 Vilas Ave, Madison, Wis. 53711.

EDELMAN, PROF. SHELDON KALMON, Psychol, see 10th ed, Soc. & Behav. Vols.

EDELSTEIN, DR. J. DAVID, b. Philadelphia, Pa, Nov. 17, 18; m. 50; c. 2. SOCIAL PSYCHOLOGY, SOCIOLOGY. B.S, City Col. New York, 53; Ph.D. (soc. psychol), N.Y. Univ, 59. Teacher, city bd. ed, New York, 50-53, soc. psychologist, bur. ed. res, 57-59; training dir, Benson & Hedges, 53-54; test develop. assoc, Ed. Testing Serv, N.J, 55-57; soc. psychologist, res. prog, inst. mgt. & labor rels, Rutgers, 59-60; res. assoc. & lectr, indust. rels, Univ. Col. S.Wales & Monmouthshire, Wales, 60-61; soc. psychologist, res. prog, inst. mgt. & labor rels, Rutgers, 61-62; lectr, City Col. New York, 62-63; asst. prof. SOCIOL, NORTHERN ILLINOIS, 63-67, ASSOC. PROF, 67- Lectr, Queens Col.(N.Y), 59-60. Psychol. Asn; fel. Sociol. Asn; Indust. Rel. Res. Asn; Soc. Psychol. Study Social Issues. Structure, government and political process in large organizations; attitudes and the language of judgement; personality and cultural differences; comparative industrial relations systems. Publ: Election of international union officers, Polit. Res-Orgn. & Design, 1/60; Democracy in a national union; the British AEU, Indust. Rels, 5/65; An organizational theory of union democracy, Am. Sociol. Rev, 2/67. Address: 1522 Oakwood Ave, De Kalb, Ill. 60115.

EDELSTEIN, DR. SARA J, b. Minneapolis, Minn, Jan. 24, 38; m. 61. POLITICAL SCIENCE. B.A, Minnesota, 59, M.A, 61; Ph.D.(polit. sci), California, Los Angeles, 66. ASST. PROF. POLIT. SCI, SAN FERNANDO VALLEY STATE COL, 66- Polit. Sci. Asn. European comparative politics. Address: 3711 Scadlock Lane, Sherman Oaks, Calif. 91403.

EDELSTEIN, DR. TILDEN G, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EDENS, DR. B(ISHOP) DAVID, b. Sumter, S.C, Feb. 11, 26; m. 50; c. 2. COUNSELING, PSYCHOLOGY. B.A, Wake Forest Col, 50; B.D, South. Baptist Theol. Sem, 53, Th.M, 54; fel, Merrill-Palmer Inst, 54-55; fel, Columbia, 56, Ed.D, 57. Chaplain, Riverside Hosp, New York, N.Y, 55-57; instr. psychol, marriage & family life, San Antonio Col, 58-67; DIR. MARRIAGE & FAMILY PROG, STEPHENS COL, 67- Dir. counseling & family life, Trinity Baptist Church, 57- U.S.N, 44-46. Psychol. Asn; Sociol. Asn; Asn. Marriage Counsr; Acad. Relig. & Ment. Health. Publ: Sexual understanding among young married adults; co-auth, Why God gave children parents, 66 & Making the most of family worship, 68, Broadman. Address: Stephens College, Columbia, Mo. 65201.

EDER, DR. HERBERT MICHAEL, b. Los Angeles, Calif, Jan. 8, 36; m. 57; c. 2. GEOGRAPHY. A.B, California, Los Angeles, 58, M.A, 60, Ph.D.(geog), 63; La. State, 59-60. Teaching asst. GEOG, California, Los Angeles, 58-59; La. State, 59-60; instr, CALIFORNIA, LOS ANGELES, 62-63, ASST. PROF, 63-, Off. Naval Res. contractee, summer 65. Nat. Acad. Sci.-Nat. Res. Coun. for. field fel. prog, 66-67. Asn. Am. Geog; Am. Geog. Soc. Cultural geography, especially rural peoples and landscapes in tropical regions, particularly Latin America; changing relationships between man and earth, especially man as an agent of environmental change. Publ: El rio y el monte: geographical reconnaissance of Rio Sigurisua Valley, Colombia, Off. Naval Res. Report, 1/63; Biography of a periodical: Geographische Zeitschrift, 1895-1963, Prfnl. Geogr, 5/64; The role of transportation in Choco cultural and environmental change, Calif. Geogr, 65. Address: Dept. of Geography, University of California, Berkeley, Calif. 94720.

EDERER, PROF. RUPERT J(OSEPH), b. Munich, Germany, Sept. 25, 23; nat; m. 48. ECONOMICS. B.A, St. Bonaventure Col, 44; M.A, St. Louis, 50, Ph.D, 54. Instr. ECON, St. Bonaventure, 50-52; Quincy Col, 52-53; asst. prof, Canisius Col, 53-59, assoc. prof, Rosary Hill Col, 59-67; PROF, STATE UNIV. N.Y. COL. BUFFALO, 67- Res. consult, int. off, Switchmen's Union N.Am, 56-60. U.S.A, 45-47. Econ. Asn. Monetary theory and policy; labor relations; economic systems. Publ: The evolution of money, Pub. Affairs, 64. Address: 4100 Ransom Rd, Clarence, N.Y. 14031.

EDGECOMB, DR. THEODORE S, b. Stanford, Maine, Dec. 9, 37; m. 60; c. 2. ORGANIZATIONAL BEHAVIOR. B.A, Vermont, 62; M.S, Purdue, 63; Ph.D. (indust. psychol), Cornell, 65. Mem. staff, commercial aircraft div, Boeing Co, Wash, 65-66; DIR. ED, ROCKY FLATS DIV, DOW CHEM. CO, 66-U.S.N, 55-58. Psychol. Asn; Sociol. Asn; Soc. Training & Develop. Leadership styles and their relationship to organizational climate. Address: Rocky Flats Division, Dow Chemical Co, P.O. Box 888, Golden, Colo. 80401.

EDGEL, PROF. RALPH L(EMON), b. Marion, Utah, June 30, 10; m. 32; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Utah, 32; M.B.A, Northwestern, 35. Instr. econ, Kans. State Col, 35-36; asst. prof. bus. admin, New Mex. State Col, 36-42; sr. price analyst, Off. Price Admin, 42-44, asst. to regional adminstr, 44-45; dir. bur. bus. res. & asst. prof. BUS. ADMIN, NEW MEXICO, 45-48, assoc. prof, 48-55, PROF, 55- Dir. res, N.Mex. Econ. Develop. Cmn, 55-57. Econ. Asn; Finance Asn; Regional Sci. Asn. General economic conditions; economic growth and structure of areas; industrial location. Publ: co-auth, Patterns of New Mexico state finance, Financing unemployment insurance in New Mexico & Income and employment in New Mexico. Address: 601 Vassar Dr. N.E, Albuquerque, N.Mex. 87106.

EDGERTON, DR. HAROLD A(SAHEL), b. Russell, Kans, Jan. 18, 04; m. 35; c. 3. PSYCHOLOGY, STATISTICS. B.S, Kans. State Teachers Col.(Emporia), 24; M.A, Ohio State, 26, Ph.D.(psychol), 28; Minnesota, 24-25; Stanford, 27. Asst. psychol, Minnesota, 24-25; Ohio State, 25-30, asst. prof, 30-41, assoc. prof, 41-45, prof, 45-47, counsr, col. arts & sci, 37-41, dir. occup. opportunities serv, 41-46; v.pres, Richardson, Bellows, Henry & Co, 47-59, PRES, 59-62; PERFORMANCE RES. INC, 62- Prof, Maryland, 62-68. Mem, Am. Bd. Counseling Serv, 64-, pres, 67- Res. consult. statist, employ. serv, U.S. Dept. Labor, 35-36; consult. Westinghouse Ann. Sci. Talent Search, 42-; spec. consult, Secy. of War, 44-47. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. AAAS; fel. Psychol. Asn; Psychomet. Soc.(secy, 39-46, pres, 46). Scientific, technical and industrial personnel; statistical techniques in psychology and education. Address: Performance Research Inc, 919 18th St. N.W, Washington, D.C. 20006.

EDGERTON, DR. J(ESSE) WILBERT, b. Pikeville, N.C, Nov. 21, 18; m. 43; c. 4. PSYCHOLOGY. B.S, Guilford Col, 40; M.A, Florida, 47; U.S. Pub. Health Serv. fel, Duke, 48-51, Ph.D, 53. Teacher, high sch, N.C, 41-42; asst. prof. psychol, N.C. State Col, 47-48; dir. ment. health div, Volusia County Health Unit, Fla, 52-53; exec. dir, Ala. Asn. Ment. Health, 53-57; ment. health consult, regional off, U.S. Pub. Health Serv, 57-61, regional prog. dir. ment. health, 61-65; ASSOC. PROF. PSYCHOL, MENT. HEALTH, NORTH CAROLINA, CHAPEL HILL, 65- Assoc, Nat. Training Labs, 66-; mem. exec. coun, ment. health sect, Am. Pub. Health Asn, 67- Summer vis. prof, Southern California, 61. Dipl, Am. Bd. Exam. Prfnl. Psychol, 60-With Civilian Pub. Serv, 42-46. Psychol. Asn; Pub. Health Asn. Community mental health programs; in-service training in interpersonal relations; psychosomatic reactions; community research; group dynamics training. Address: Dept. of Psychiatry, University of North Carolina School of Medicine, Chapel Hill, N.C. 27514.

EDGERTON, DR. ROBERT B(RECKENRIDGE), b. Maywood, Ill, Nov. 28, 31; m. 59. SOCIAL ANTHROPOLOGY. B.A, California, Los Angeles, fel, 59, Ph.D.(anthrop), 60. RES. ANTHROPOLOGIST, Pac. State Hosp, 60-61; CALIFORNIA, LOS ANGELES, 61- Consult, Camarillo State Hosp, 60; Pac. State Hosp, 61-62. U.S.A.F, 51-54. Fel. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc; Sociol. Soc. Comparative society; personality development; culture and mental retardation; culture and mental health; social deviance. Publ: The cloak of competence, Univ. California, 67; From mortification to aggrandizement, Psychiat, 62; Conceptions of psychosis in four east African societies, Am. Anthrop, 65. Address: 1577 N. Topanga Cyn Blvd, Topanga, Calif. 90290.

EDGINGTON, DR. EUGENE SINCLAIR, b. Monegaw Springs, Mo, May 24, 24; m. 54; c. 2. PSYCHOLOGY. B.S, Kansas State, 50, M.S, 51; fel, Mich. State, 51, Ph.D, 55. Analyst mil. opers, Columbia Res. & Develop. Corp, 51-52, 54-55; human engr. equip. design, Farnsworth Electronics Co, 56; asst. prof. psychol, Oregon State, 56-59; Kans. State Teachers Col, 59-61, assoc. prof. & proj. dir. phys. handicapped students, U.S. Off. Voc. Rehab. res. grant, 61-63; ASSOC. PROF. PSYCHOL, CALGARY, 63- U.S.A.A.F, 41-45. Psychol. Asn. Statistics; measurement theory; kinesthesis; vision; special facilities for physically handicapped persons; instrument panel layout, presentation of information on radar scopes. Publ: Contradictory conclusions from two speed of performance measures, Psychol. Bull; Statistical test for cyclical trends, with application to Weber's law, Am. J. Psychol; Probability table for number of runs of signs of first differences in ordered series, J. Am. Statist. Asn. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

EDGINGTON, PROF. WILBERTA DONART, b. Glencoe, Okla, July 31, 13; m. 46. EDUCATIONAL PSYCHOLOGY. B.S, Okla. State, 32, M.S, 35. Teacher, vis. teacher & guid. counsr, pub. schs, Okla, 32-42; dir. testing bur, U.S. Signal Corps, 42-43; therapist, Army Hosp, Camp Atterbury, Ind, 44-45; instr. Eng, Butler, 45-46; head dept. psychol. & Eng, Huntington Col, 46-50; assoc. prof. ed, Evansville Col, 50-52; asst. prof. psychol, Purdue, 53-59; PROF. PSYCHOL. & ED, ST. FRANCIS COL.(IND), 59-; PSYCHOLOGIST, EAST ALLEN COUNTY SCHS, 65- Clin. psychologist, Ft. Wayne State Sch, 57-59; psychologist, Allen County, 59-65. Psychol Asn. Clinical psychology; teacher training; guidance and counseling. Address: 6103 Beaumont Dr, Ft. Wayne, Ind. 46805.

EDGREN, PROF. ROBERT D(URAND), b. New York, N.Y, Feb. 29, 08; m. 45. PSYCHOLOGY. A.B, Stanford, 29, M.A, 51, Ph.D.(psychol), 54. From asst. prof. to assoc. prof. PSYCHOL, MILLS COL, 53-67, PROF, 67-, dir. grad. study, 61-64, assoc. prof, upward bound prog, summer 66. U.S.A, 41-45, Lt. Col. AAAS; Psychol. Asn. Development of perception; learning theory. Publ: Co-auth, Errors in transfer following learning with understanding, J. Exp. Psychol; auth, Messages in the mind, Mills Quart, 11/65. Address: Dept. of Psychology, Mills College, Oakland, Calif. 94613.

EDIE, DR. LIONEL D(ANFORTH), Econ, see 10th ed, Soc. & Behav. Vols, deceased 62.

EDIE, PROF. MILTON J(AMES), b. Macomb, Ill, July 6, 22; m. 43; c. 1. HISTORICAL GEOGRAPHY, CLIMATOLOGY. B.S, Western Illinois, 47, M.S, 48; Wisconsin, 51-55. Instr. geog. & geol, Carroll Col.(Wis), 48-50, asst. prof, 50-51; asst. geog, Wisconsin, 51-55; asst. prof, MONTANA STATE, 55-64, PROF. EARTH SCI. & HEAD DEPT, 64- U.S.A.A.F, 42-46, Res, 46-50, Sgt. AAAS; Asn. Am. Geog; Nat. Coun. Geog. Ed. Historical geography of the United States, particularly Montana and the northern Great Plains; evolution of Montana County boundaries; changing geographies of size of rural landholdings in eastern Montana. Publ: Co-auth, Montana in maps: an atlas of Montana geography. Address: Dept. of Earth Sciences, Montana State University, Bozeman, Mont. 59715.

EDINGER, PROF. LEWIS J(OACHIM), b. Frankfort-on-Main, Germany, Feb. 1, 22; nat; m. 50; c. 2. POLITICAL SCIENCE. A.B, Wabash Col, 43; M.A, Columbia, 47, univ. scholar, 47-48, Ph.D, 51. Instr. hist, Wash. Sq. Col, N.Y. Univ, 47-49; vis. asst. prof. hist, Sweet Briar Col, 50-51; vis. lectr, Vassar Col, 51-52; vis. asst. prof, North Carolina, 52-53; assoc. prof. polit. sci. & spec. adv. int. rels. & European affairs, Air Univ, 53-57; asst. prof. polit. sci, Mich. State, 57-58, assoc. prof, 58-62, PROF, 62-63; Washington (St. Louis), 63-67; GOVT, COLUMBIA, 67- Ford Found. fel, 56-57; faculty res. grant, Soc. Sci. Res. Coun, 59-60; 62-64; adv. res. scholar, Fulbright Prog. for Germany, 59-60; vis. res. prof, Free Univ, 59-60; sr. res. fel, Yale, res. prof, Bonn & Fulbright travel grant, 64-65; summer fel, Soc. Sci. Res. Coun, 58. Mem, European Inst, Columbia, 67- U.S.A.A.F, 43-45. Polit. Sci. Asn. International and comparative politics; civil-military relations and military affairs; comparative analysis of political leadership. Publ: Kurt Schumacher, Stanford, 65; co-auth, Political leadership, Wiley, 67; auth, Politics in Germany, Little, 68. Address: Dept. of Political Science, Columbia University, New York, N.Y. 10027.

EDLEFSEN, DR. J(OHN) B, b. Caldwell, Idaho, June 25, 14. SOCIOLOGY. B.S, Idaho, 40; A.M, State Col. Wash, 41, Ph.D, 48. Instr. sociol, Washington State, 46-49, from asst. prof. to prof, 49-58, chmn. dept, rural sociol, 57-60; SOCIOLOGIST, U.S. AGENCY INT. DEVELOP, INDIA, 66- Head dept. sociol, Panjab, Pakistan, 54-57, 60-62; soc. sci, W. Pakistan Agr. Univ, 62-64. Sociol. Asn; Pakistan Sociol. Asn. Race and minority relations; social problems; enclavement among southwest Idaho Basques. Publ: Co-auth, Social change in Pakistan, Sociol. & Soc. Res, 60; auth, Demographic trends in Pakistan, Proc. Pakistan Sociol. Asn, 64; The antecedents of sociology, Sociol. in Pakistan, 66. Address: U.S. Agency International Development, New Delhi, Dept. State, Washington, D.C. 20521.

EDLING, DR. JACK VICTOR, b. Moorhead, Minn, Oct. 10, 18; m. 42; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Iowa, 41; M.Ed, Nebraska, 54, Ph.D, 56. Prof. ed. psychol, Ore. Col. Ed, 55-60; dir. teaching res, State Syst. Higher Ed, Ore, 60-61; CHIEF, RES. SECT, ED. MEDIA BR, U.S. OFF. ED, 61- U.S.A, 41-46, 51-52, Lt. Col. Psychol. Asn. Mass communication processes; learner variables and methods in communication. Publ: New media in education; Self-contained classroom, practice and opinion, Ore. Ed. Asn. J; Teaching machines and programmed learning: when and how much?, Baltimore Ed. J. Address: Teaching Research Division, Oregon State System of Higher Education, Monmouth, Ore. 97361.

EDMAN, DR. V(ICTOR) R(AYMOND), Int. Law, see 10th ed, Soc. & Behav. Vols, deceased 67.

EDMINSTER, DR. LYNN R(AMSAY), b. Chillicothe, Ill, Jan. 2, 93. ECONOMICS. A.B, Harvard, 16; Ph.D, Brookings Inst, 30. Mem. econ. staff, Brookings Inst, 22-30; prin. economist, for. serv. div, U.S. Dept. Agr, 31-33, chief import-export div, agr. adj. admin, 34-35; chief econ. analyst, div. for. trade agreements, U.S. Dept. State, 36-37, spec. asst. to U.S. Secy. State, 38-42; v.chmn, U.S. Tariff Cmn, 42-53, mem, 42-55; affiliate, Survs. & Res. Corp, 55-60; RETIRED. Adj. prof, sch. for. serv, Georgetown, 21-26, 29-32; assoc. prof, Virginia, 26-27; lectr, grad. sch, American Univ, 33-38, 56-60; Maryland, 56-59. Mem. econ. staff, div. planning & statist, U.S. Shipping Bd, 19; chmn. Cmt. Reciprocity Info, 42-53; mem, Filipino Rehab. Cmn, 43-44. Mem. U.S. del, Int. Trade Confs, London, Eng, 46, Geneva, Switz, 47. U.S.A, 18. Econ. Asn. Commercial policy; international control of raw materials; cattle industry and the tariff. Address: 4314 Klingle St. N.W, Washington, D.C. 20016.

EDMISON, DR. LYLE D(UANE), b. Columbus, Nebr, Dec. 2, 25; m. 52; c. 3. PSYCHOLOGY. A.B, Nebraska, 50, M.A, 51, Ph.D.(ed. psychol), 55. Instr. ed. psychol, Nebraska, 53-55; asst. prof. PSYCHOL, San Jose State Col, 55-58, assoc. prof, 58-59; PROF, CALIF. STATE COL. HAYWARD, 59-, DEAN STUDENTS, 62-, assoc. dean students, 59-62. Trustee, Am. Col. Testing Prog, 60-67; Ohlone Col, 65- U.S.N, 44-46. Psychol. Asn. Psychometrics; student characteristics. Address: Dept. of Psychology, California State College, 25800 Hillary St, Hayward, Calif. 94542.

EDMISTON, DR. ANDREW J(AMES), b. Buckhannon, W.Va, Feb. 1, 27; m. 48; c. 2. CLINICAL PSYCHOLOGY. A.B, W.Va. Wesleyan Col, 51; M.S, Miami (Fla), 53; Ph.D.(clin. psychol), Pa. State, 60. Trainee clin. psychol, Vet. Admin, 54-56; counsr, div. counseling, Pa. State, 56-57; supvr. counseling psychol, counseling serv, Lehigh, 57-63, asst. prof. psychol, 61-62, assoc. prof, 62-63; dir. bur. counseling & prof. psychol, Parsons Col, 63-67; PROF. ED. & ASST. TO OFF. V.PRES, LEHIGH, 67- U.S.A, 45-46. Consult. lectr, div. behav. probs. & drug control, Dept. Health, Pa, 62-63. AAAS; Psychol. Asn. Clinical and counseling psychology; effects of attitudes, values and personality factors on the development and use of human potential. Address: Dept. of Education, Lehigh University, Bethlehem, Pa. 18015.

EDMOND, DR. CLARENCE D, b. Antlers, Okla, Nov. 28, 19; m; c. 4. ECONOMICS. B.S, Okla. State, 46, M.S, 55; Ph.D.(agr. econ), Iowa State, 60. Coordinator vet. training, high sch, Okla, 47-54, vet. training instr, 54-55; asst. agr. econ, Iowa State, 55-57, assoc. land econ, 58-59; SPECIALIST agr. mkt, ARIZONA, 59-61, OOMMUNITY RESOURCE DEVELOP, 61- Consult, Community Resource Develop, 60- U.S.A.A.F, 42-45, T/Sgt. Agr. Econ. Asn. Community resource development, or the broader approach of economics and sociology; political science in solving area problems. Address: Cooperative Extension Service, University of Arizona, Tucson, Ariz. 85721.

EDMONDS, DR. VERNON H(URD), b. Clinton, Okla, Dec. 18, 27; m. 55; c. 1. SOCIOLOGY. B.A, Okla. State, 54; M.S, Purdue, 55; Ph.D.(sociol), Missouri, 62. Teacher, high sch, Ind, 55-56; instr. soc. sci, Cottey Col, 56-58; human behavior, South Florida, 60-62, asst. prof. SOCIOL, 62-63; Fla. State, 63-67, Univ. Res. Coun. res. grant, 64-66; ASSOC. PROF, COL. WILLIAM & MARY, 67- U.S.A.F, 46-49. Sociol. Asn. Social psychology, male-female relationships, fascism and religion. Publ: Co-auth, Social behavior, McGraw, 2nd ed, 67; auth, Logical error as a function of group consensus: an experimental study, Soc. Forces, 10/64; Marital conventionalization: definition and measurement, J. Marriage & Family, 11/67. Address: Dept. of Sociology, College of William & Mary, Williamsburg, Va. 23185.

EDMONDS, DR. WILLIAM SYLVESTER, b. Newport News, Va, July 22, 19; m. 50. PSYCHOLOGY. B.S, Hampton Inst, 39; M.S, Va. State Col, 42; M.A, Columbia, 49, Ph.D, 53. Counsr, Juvenile & Domestic Court, Newport News, Va, 41-45; guid. supvr, pub. schs, 45-49; dean students, Jackson State Col, 49-51; prof. psychol. & chmn. div. ed, Ala. Agr. & Mech. Col, 58-60, dir. grad. study, 58-60, dean col, 62-66; prof. psychol. & ed, VA. STATE COL, 60-62, DIR. DIV. GRAD. STUDIES, 66- Consult, Conf. Ala. Cols, 54-60. U.S.A, 42-45, 1st Lt. Psychol. Asn. Psychometrics; statistics; psychological testing of adolescents and adults; clinical adjustment of abnormal behavior. Publ: Abuse of the median in describing markedly skewed distributions of ability; Testing and the identification of talent in the public school; Prediction of college success from high school test scores. Address: Division of Graduate Studies, Virginia State College, Petersburg, Va. 23806.

EDMONDSON, DR. PATRICIA B, b. Boise, Idaho, Sept. 22, 42; m. 65; c. 1. POLITICAL SCIENCE. B.A, Midwestern, 64; M.A, Duke, 65, Ph.D.(polit. sci), 67. Lectr. POLIT. SCI, NORTH CAROLINA, GREENSBORO, 66-67, ASST. PROF, 67- Polit. Sci. Asn. Political theory; comparative politics; political parties; international law. Address: P.O. Box 661, Hillsborough, N.C. 27278.

EDMONDSON, DR. VANCE WARD, b. New Edinburg, Ark, Feb. 1, 15; m. 40. AGRICULTURAL ECONOMICS. B.S.A, Arkansas, 48; M.S, Okla. State, 50; Royal Col. Agr. & Vet. Sci, Denmark, 50-51; Ph.D, Cornell, 56. Asst. supvr. farm credit, Farm Security Admin, Ark, 40-42; managing dir. rural health servs, Nev. County Pre-Paid Health Servs, 42; asst. AGR. ECON, Arkansas, Okla. State & Cornell, 47-54; asst. prof, Arkansas, 51-54; TEXAS A&M, 56-58, ASSOC. PROF, 58- Tech. adv. agr. econ, Texas A&M-Agency Int. Develop. Contract, Argentina, 66- U.S.A.A.F, 42-46. Agr. Econ. Asn; Can. Agr. Econ. Soc; Int. Asn. Agr. Econ. Cotton mechanization; low farm income problems; cost of power machinery ownership and operation; design of farm and ranch accounting systems and rental arrangements. Publ: Economic considerations related to irrigation systems in the Arkansas delta & Alternative enterprises on delta cotton farms, Ark. Agr. Exp. Sta. Bull; Analysis of full-time commercial farms, Northeast Texas, Tex. Agr. Exp. Sta. Bull. Address: Dept. of Agricultural Economics & Sociology, Texas A&M University, College Station, Tex. 77843.

EDMONSON, DR. M(UNRO) S(TERLING), b. Nogales, Ariz, May 18, 24; m. 53. ANTHROPOLOGY. A.B, Harvard, 45, M.A, 48, Ph.D.(soc. anthrop), 52; Nat. Univ. Mexico. Asst. ANTHROP, Harvard, 49-50; instr, Washington (St. Louis), 51; asst. prof. & res. assoc, TULANE, 51-57, assoc. prof, 57-60, PROF, 60- Vis. prof, San Carlos, Guatemala, 60-61; Purdue, 64; Harvard, 65-66. U.S.N.R, 43-46, Lt.(jg). AAAS; fel. Anthrop. Asn; Ethnol. Soc.(pres, 66). Latin America; North American Indian; social organization and social psychology. Publ: Los manitos, 57 & The book of counsel, 68, M.A.R.I-Tulane; co-auth, The eighth generation, Harpers, 59. Address: 901 Cherokee St, New Orleans, La. 70118.

EDMONSTON, DR. WILLIAM E(DWARD), JR, b. Baltimore, Md, Nov. 20, 31; m. 57; c. 2. PSYCHOLOGY. B.A, Hopkins, 52; M.A, Alabama, 56; Ph.D. (clin. psychol), Kentucky, 60. Instr. psychol, Kentucky, 59-60; instr. med. psychol. & dir. psychol. clin, sch. med, Washington (St. Louis), 60-64; asst. prof. PSYCHOL, COLGATE, 64-68, ASSOC. PROF, 68- Res. consult, Washington (St. Louis), 64-65. Gorton award, 61. Med.Serv.C, 52-54, Res, 54-61, Capt. AAAS; Psychol. Asn; Soc. Clin. Hypnosis (treas, 67, ed, J. Clin. Hypnosis); Int. Soc. Clin. & Exp. Hypnosis. Hypnosis; esthetics; projective techniques; evaluation scales; psychopathology. Publ: Rorschach content and ink blot structure; Experimental investigation of hypnotic age-regression; Stimulus-response theory of hypnosis, In: Handbook of clinical and experimental hypnosis, Macmillan, 67. Address: Dept. of Psychology, Colgate University, Hamilton, N.Y. 13346.

EDMUNDS, ARTHUR B(URT), JR, Bioastronaut, see 11th ed, Phys. & Biol. Vols.

EDMUNDSON, DR. H(AROLD) P(ARKINS), Math, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

EDSALL, PROF. PRESTON W(ILLIAM), b. Roxbury, N.Y, Mar. 29, 02; m. 28; c. 1. POLITICAL SCIENCE. B.S, N.Y. Univ, 23; fel. & M.A, Princeton, 27, Ph.D, 37. Asst. Eng, Lehigh, 23; instr, N.C. State Col, 23-24; hist. & govt, Emory, 24-26; instr. polit, 28-31, researcher legal & judicial hist. of N.J, Princeton, 32-35; asst. prof. polit. sci, Rutgers, 31-32; spec. attorney, U.S. Dept. Justice, 35-37; from spec. examiner to res. expert, National Arch, 37-42; sr. negotiator war transfers, U.S. Civil Serv. Cmn, 42-43; lectr. hist, war training faculty, N.C. State Col, 43-44; prof. polit. sci, E.Carolina Col, 45; assoc. prof. hist. & polit. sci, N.C. STATE, RALEIGH, 45-46, prof, 46-65, head dept, 48-65, prof. POLIT. & head dept, 65-67, EMER. PROF, 68- Acting asst. prof, N.Y. Univ, 33-34; TV commentator, WUNC, N.C, 55, 57, 59, 61 & 65; chmn, Wake County Bd. Elections, 56-60; Soc. Sci. Res. Coun. fel, 59-60; vis. prof, Duke, 60-61. Consult, Kansas State, 61. Polit. Sci. Asn; Acad. Polit. Sci; Soc. Pub. Admin; Hist. Asn. American constitutional law; legislatures and legislative process and politics; legal and judicial history. Publ: Co-auth, Politics of reapportionment, Atherton, 62; auth, Journal of the Courts of Common Right and Chancery of East New Jersey, 1683-1702, Am. Legal Hist. Soc, 37; Advisory opinion in North Carolina, N.C. Law Rev. Address: Dept. of Politics, North Carolina State University, Raleigh, N.C. 27607.

EDSON, DR. KENNETH C(HARLES), b. Boise, Idaho, Aug. 16, 35; m. 57; c. 3. PSYCHOLOGY. B.A, Chico State Col, 57; M.A, Minnesota, 61, U.S. Vet. Admin. trainee, 63-65, Ph.D.(counseling psychol), 65. Asst. prof. counseling psychol, Sacramento State Col, 65-67; ASSOC. DEAN STUDENTS, CHICO STATE COL, 67- Guid. consult, Nat. Defense Ed. Act, 65-67; rehab. counseling consult, State of Calif, 66-67. Psychol. Asn; Personnel & Guid. Asn. College student characteristics, especially scholastic probation, collegiate environmental expectations, and psychological test validation. Publ: Co-auth, The self concept of bright underachieving high school students as revealed by an adjective check list, Personnel & Guid. J, 11/60. Address: Chico State College, Chico, Calif. 95926.

EDSON, PROF. WILLIAM H(ERBERT), b. Red Cloud, Nebr, Nov. 29, 14; m. 50; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, Hastings Col, 39; M.A, Minnesota, 47, Ph.D.(ed. psychol), 50. Asst. prof. PSYCHOL, COL. ED, MINNESOTA, 50-54, assoc. prof, 54-59, PROF, 59-, DIR. STUDENT PERSONNEL, 50- Consult, new horizons proj, Nat. Cmn. Teacher Ed. & Prfnl. Standards, 60-61. U.S.A, 42-45. Personnel & Guid. Asn. Characteristics associated with successful elementary and secondary school teaching; student personnel work in teacher education; educational measurement. Publ: Co-auth, Relationships between visual characteristics and specific silent reading abilities, J. Ed. Res, An experimental study of the admissions interview in teacher education for predicting success in teaching & The relationship between observed classroom behaviors of elementary student teachers, predictors of behaviors and supervisor ratings, Col. Ed, Univ. Minn, 62. Address: 206 Burton Hall, University of Minnesota, Minneapolis, Minn. 55455.

EDWARDS, DR. ALFRED L, b. Key West, Fla, Aug. 9, 20; m. 49; c. 2. ECONOMICS. B.S, Livingstone Col, 48; M.A, Michigan, 49; Ph.D.(econ), Iowa, 58. Instr. econ, Southern Univ, 49-55; Iowa, 56-57; Mich. State, 57-58, asst. prof, 58-62, prof, 62-63, mem. univ. adv. group, Univ. Nigeria, 60-63; DEP. ASST. SECY, U.S. DEPT. AGR, 63- Summer fel, surv. res. center, Michigan, 61. U.S.A, 43-46, Sgt. Econ. Asn. Public finance and problems of developing economies. Publ: Land reform in Iraq: social and economic implications, Land Econ; Compensatory property taxation: an alternative, Nat. Tax, J. Address: Office of the Secretary, U.S. Dept. of Agriculture, Independence between 12th & 14th St, Washington, D.C. 20250.

EDWARDS, PROF. ALLEN B(RAXTON), b. Danville, Ky, Dec. 7, 14. ECONOMICS. A.B, Centre Col, 35; A.M, Duke, 40; Ph.D, Virginia, 43. Instr. ECON, Virginia, 42-43, Naval Flight Sch, 43; assoc. prof, Mercer, 43-44; asst. prof, ALLEGHENY COL, 44-47, assoc. prof, 47-51, PROF. & TREAS, 51- Instr, Am. Inst. Banking. Econ. Asn. Business administration; life insurance investments. Address: Dept. of Economics & Business Administration, Allegheny College, Meadville, Pa. 16335.

EDWARDS, PROF. ALLEN D(AVID), b. Martin, Mich, Aug. 27, 05; m; c. 2. SOCIOLOGY. B.S, West. State Teachers Col, Mich, 28; Ph.M, Wisconsin, 33; Ph.D.(sociol), Duke, 39. Assoc. rural sociologist, rural sociol. & pop. probs, exp. sta, Va. Polytech, 37-42; assoc. rural sociologist & assoc. prof. rural sociol, Clemson Col, 42-44; PROF. SOCIOL. & HEAD DEPT. WINTHROP COL, 44- Ford Found. summer fel, Fla. State, 65. Mem. tech. rev. cmt, S.C. Interagency Coun. Aging, 67- Sociol. Asn; Rural Sociol. Soc; Pop. Asn; Asn. Asian Studies. Effects of drought and depression on a rural community; Virginia population trends. Publ: Co-auth, Types of rural communities, In: Community structure and analysis, Crowell, 59. Address: Dept. of Sociology, Winthrop College, Rock Hill, S.C. 29730.

EDWARDS, PROF. ALLEN JACK, b. Birmingham, Ala, June 21, 26; m. 50; c. 4. EDUCATIONAL PSYCHOLOGY. A.B, Birmingham-South. Col, 50; M.A, Alabama, 55; Ph.D.(ed. psychol), Iowa, 58. Asst. prof. ED, Kansas, 58-63; assoc. prof, Southern Illinois, 63-65; PROF, MISSOURI, COLUMBIA, 65- U.S.A, 44-46, S/Sgt. AAAS; Psychol. Asn; Ed. Res. Asn. Verbal learning. Publ: Co-auth, Educational psychology: the teaching-learning process, Int. Textbook, 68 & Predictive efficiency of intelligence test scores, Ed. & Psychol. Measurement, 64; auth, Reliability in cognitive process of selected tests of flexibility, Psychol. Reports, 66. Address: 10 Westwood Ave, Columbia, Mo. 65201.

EDWARDS, DR. ALLEN L, b. Houston, Tex, Apr. 15, 14; m; c. 1. PSYCHOLOGY. B.A, Cent. Col.(Ill), 37; M.A, Ohio State, 38; fel, Northwestern, 38-40, Ph.D.(psychol), 40. Grad. asst. psychol, Ohio State, 37-38; Northwestern, 38-40; instr, Akron, 40-41; psychologist, mil. intel. serv, U.S. War Dept, 41-42; Off. War Info, 42-43; asst. prof. PSYCHOL, Maryland, 43-44; assoc. prof, WASHINGTON (SEATTLE), 44-48, PROF, 48- Soc. Sci. Res. Coun. res. fel, 50-54, Ford Found. grant, 56; with behav. sci. study sect, Nat. Insts. Health, 57-; Guggenheim fel, Eng, 59-60. Consult, Vet. Admin, 51-; Opers. Res. Off, Hopkins, 49-55; Naval Sch. Aviation Med, 56- Expert, hqs. air force personnel & training res. center, Lackland Air Force Base, 54- Fel. Psychol. Asn; Statist. Asn; Biomet. Soc; Psychomet. Soc. Personality and social psychology; evaluation and measurements; statistics and experimental design. Publ: Statistical methods for the behavioral sciences; Techniques of attitude scale construction; Social desirability variable in personality assessment and research. Address: Dept. of Psychology, University of Washington, Seattle, Wash. 98105.

EDWARDS, A(TTICUS) F(ITZGERALD), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

EDWARDS, DR. BRUCE, b. Hinsdale, Ill, June 16, 24; m. 50; c. 3. ECONOMICS. B.A, Michigan, 48, M.A, 50, Ph.D, 56. Instr. econ, Illinois, Urbana, 53-56, asst. prof, 56-59; vis. prof, Nommensen Univ, Indonesia, 59-61; asst. prof, Illinois, Urbana, 61-63; sr. economist, develop. planning center, Nat. Planning Authority, 63-66; ASSOC. PROF. ECON, BOWLING GREEN STATE, 66- Summer economist, U.S. Off. Ed, 66. Statist. Asn; Soc. Int. Develop. Educational expenditures as capital formation; problems of quantifying intangible economic benefits; economic theory; mathematics; regional studies. Publ: Empirical estimates of some regional input-output matrices. Address: 128 Crim St, Bowling Green, Ohio 43402.

EDWARDS, PROF. CHARLES E(DWARD), b. Charleston, S.C, July 19, 30; m. 51; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. B.S, Ga. Inst. Tech, 52, M.S, 53; South. Fellowship Fund fel, North Carolina, 58-59, Ph.D, 61. Instr. indust. mgt, Ga. Inst. Tech, 52-53; bus. & econ, North Carolina, 55-58, asst. prof. BUS. ADMIN, SOUTH CAROLINA, 59-63, ASSOC. PROF, 63-, ED, BUR. BUS. & ECON. RES, 65- Faculty fel, Ford Found. Regional Summer Seminar Econ, Virginia, 62. U.S.A.F, 53-55, 1st Lt. Econ. Asn; Finance Asn; Soc. Hist. Tech. Studies of business finance and industrial markets and structure. Publ: Dynamics of the United States automobile industry, Univ. South Carolina, 65; co-auth, A note on the high-low average as an estimator of average annual stock prices, J. Finance, 3/66; Empirical evidences of changes in investor attitudes, South. J. Bus, 4/66. Address: University of South Carolina College of Business Administration, Columbia, S.C. 29208.

EDWARDS, DEAN CHARLES M(UNDY), JR, b. Richmond, Va, Nov. 2, 03; m. 31; c. 2. MARKETING MANAGEMENT. B.S, Richmond, 25, LL.D, 63; M.S, N.Y. Univ, 30, D.C.S, 37. Instr. & head coach track, Staunton Mil. Acad, Va, 25-29; mgt. exec, James McCreery & Co, N.Y, 29-30; sales promotion exec, Frederick Loeser & Co, 30-31; from instr. to PROF. RETAIL MGT, N.Y. UNIV, 31-, DEAN INST. RETAIL MGT, 46- Dir, Uni-Serv. Corp, 62-67, Russ Togs, Inc, 62-; Vornado, Inc, 63-; Lehn & Fink Prod. Corp. & Allied Graphic Arts, Inc, 64-66; Big Apple Supermarkets, Inc, 68- Consult. to various companies, 38- Chevalier of Legion of Merit, Repub. France, 50; gold medal, Nat. Retail Merchants Asn, 58. U.S.A, 24-37, 45, Col. Collegiate Retailing Asn.(pres, 48-49); Mkt. Asn. Pre-evaluation of retail advertising; operating results of retail stores. Publ: Co-auth, Retail advertising and sales promotion, 36, 43 & 59 & ed, The retailing series, 46-63, Prentice-Hall. Address: Institute of Retail Management, New York University, Washington Square, New York, N.Y. 10003.

EDWARDS, DR. CHARLES PASTENE, b. Boston, Mass, June 24, 19; m. 44; c. 3. POLITICAL SCIENCE. B.S, Bowdoin Col, 41; M.A, Fletcher Sch. Law, 46, Ph.D.(int. rels), 54. Asst. to dean, Fletcher Sch. Law, 46-48, instr. soc. sci, Tufts, 48-54; assoc. prof. polit. sci, Westminster Col.(Pa), 55-62; for. mkt. consult, AGENCY INT. DEVELOP, DEPT. STATE, 62-63, int. rels. officer, TUNIS, 63-64, dep. prog. officer, 64-66, PUB. ADMIN. ADV, 66- Fulbright award, Italy, 54. Consult, New Castle Charter Cmn. With Am. Field Serv, 42-45. Polit. Sci. Asn. Methodology and reporting on substantive and electoral political questions in context of the small incorporated unit of local government; study and action programs involving practical political action and behavior. Publ: Italy, un populo deluso, Il Ponte; American school in a world setting, Our World; Theoretical aspects of districting, Proc. Pa. Polit. Sci. Asn. Address: U.S. Agency for International Development, Tunis, Tunisia, Dept. of State, Washington, D.C. 20521.

EDWARDS, DR. CLARK, b. Chicago, Ill, May 24, 25; m. 50; c. 4. ECONOMICS, MATHEMATICS. B.S, Missouri, 52; M.S, Purdue, 56; Ph.D, Mich. State, 58. Prof. agr. econ, Okla. State, 58-62; head demand anal. sect, U.S. DEPT. AGR, 62-65, CHIEF AREA ANAL. BR, 65- U.S.A, 43-46. Agr. Econ. Asn. Economic analysis of regional variations in growth potential and income distribution. Publ: Budgeting and programming in economics research, Univ. Nebraska, 66; Theory and techniques for integrated area planning, J. Farm Econ, 66; Some distributional effects of government programs, Va. Agr. Exp. Sta, 66. Address: Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

EDWARDS, DR. CLINTON R, b. Washington, D.C, Apr. 17, 26; m. 50; c. 3. GEOGRAPHY. B.A, California, Berkeley, 54, M.A, 57, Nat. Acad. Sci-Nat. Res. Coun. for. field prog. & Ph.D.(geog), 62. Assoc. GEOG, California, Berkeley, 61-62, instr, 62; asst. prof, Virginia, 62-66; ASSOC. PROF, WISCONSIN, MILWAUKEE, 66-, grad. sch. res. fel, 67. Wilson Gee Inst. res. grant, Virginia, 63. U.S.N, 44-47. Asn. Am. Geog; Am. Geog. Soc; Brit. Soc. Nautical Res. Cultural and historical geography; history of nautical technology; geography of Latin America; New World prehistory; European voyages and discoveries. Publ: Aboriginal watercraft on the Pacific coast of South America, Univ. California, 65; Wandering toponyms: el puerto de la Bodega and Bodega Bay, Pac. Hist. Rev, 64; Aboriginal sail in the New World, Southwest. J. Anthrop, 65. Address: Dept. of Geography, University of Wisconsin-Milwaukee, Milwaukee, Wis. 53201.

EDWARDS, DR. CORWIN D, b. Nevada, Mo, Nov. 1, 01. ECONOMICS. A.B, Missouri, 20, B.J, 21; Rhodes scholar, Oxford, 21-24, dipl, 22, B.Litt, 24; Ph.D, Cornell, 28. From instr. to assoc. prof. econ, N.Y. Univ, 26-35; coordinator trade practice studies sect. div. rev, Nat. Recovery Admin, 35-36; prin. economist, div. indust. econ, President's Cmt. Indust. Anal, 36; econ. adv. & asst. chief economist, Fed. Trade Cmn, 37-39, dir. bur. indust. econ, 48-53; econ. consult. & chmn. policy bd, antitrust div, U.S. Dept. Justice, 39-44; prof. econ, Northwestern, 44-48; Pitt prof, Am. Inst, Cambridge, 53-54; PROF. econ, Virginia, 54-55; govt. & bus, Chicago, 55-64; ECON, OREGON, 64- From economist to tech. dir, consumers adv. bd, Nat. Recovery Admin, 33-35; lectr, American Univ, 37-38, 40-41; Columbia, 39-40; Harvard, 41-42; Frankfurt, summer, 65. Mem, Consumers Adv. Coun, 67-Consult, U.S. Dept. State, 44-48; President's Asst. Consumer Affairs, 64, 66; Fed. Trade Cmn, 65. Chmn. conf. price res, Nat. Bur. Econ. Res, 45-47, dir, 47-48. Chief of staff, Am. Tech. Mission, Brazil, 42-43; head Mission Japanese Combines, 46. Econ. Asn.(v.pres, 51). Trade practices; restraints of trade. Publ: Price discrimination law; Trade regulation overseas, the national laws, 66 & Control of cartels and monopolies, an international comparison, 67, Oceana. Address: Dept. of Economics, University of Oregon, Eugene, Ore. 97403.

EDWARDS, DR. DANIEL JAMES, b. Washington, D.C, Dec. 30, 28; m. 52; c. 6. POLITICAL ECONOMY. B.A, Maryland, 56, M.A, 58; Earhart fel, 57-58; Relm fel, 58-59; Ph.D.(polit. econ), Virginia, 61; Naval Postgrad. Sch, 66. Asst. bur. bus. & econ. res, Maryland, 56, econ, 56-57; instr, Virginia, 57-59; asst, bur. pop. & econ. res, 59-60; asst. prof, West. Md. Col, 60-61; economist, U.S. Fed. Reserve Bd, 61-62; mem. econ. growth staff, bus. & defense serv. admin, U.S. Dept. Commerce, 62-64; Housing & Home Finance Agency, 64; chief economist spec. studies to Secy. Treas. & treas. observer & participant, Presidential Adv. Cmt. Supersonic Transport, U.S. Dept. Treas, 64-67; fiscal monetary economist, JOINT ECON. CMT, 67, ECON. CONSULT, 67-, CHIEF ECONOMIST, HOUSE BANKING & CURRENCY CMT, 67- Vis. lectr. int. econ, Sweet Briar Col, 59; assoc. prof. lectr, George Washington, 61- Mem, bur. bus. & econ. res, Maryland, 56; Bur. Mines, summer, 58; bur. pop. & econ. res, Virginia, 59-60; consult. to secy. Treas. 67- U.S.A.F, 51-54. Am. Econ. Asn; Finance Asn; Statist. Asn; Royal Econ. Soc. Relationship between the dynamic real-balance effect and predictable changes of monetary velocity; interface aspects of monetary, fiscal and international theory, practice and policy. Publ: The origins of the contributors to the A.E.R. during the fifties, Am. Econ. Rev, 12/60; Process of economic adaptation in a World War II neutral: a case study of Sweden, J. Finance, 9/61. Address: 4916 44th St. N.W, Washington, D.C. 20016.

EDWARDS, DR. DAVID C, b. Wisconsin Rapids, Wis, Nov. 24, 37; m. 59; c. 1. PSYCHOLOGY. B.S, Wisconsin, Milwaukee, 59; M.A, Iowa, 61, Ph.D.(psychol), 62. Res. assoc. PSYCHOL, Missouri, 62-63; from asst. to ASSOC. PROF, IOWA STATE, 63- Psychol. Asn; Soc. Psychophysiol. Res. Learning and motivational processes; psychophysiology; aviation psychology and physiology. Publ: General psychology, Macmillan, 68; Effect of prior experience with discrimmanda on differential conditioning, Psychol. Reports, 66; Similarity in verbal discrimination, Perceptual & Motor Skills, 66. Address: Dept. of Psychology, Iowa State University, Ames, Iowa 50010.

EDWARDS, DR. DAVID VANDEUSEN, b. Chicago, Ill, May 25, 41. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Swarthmore Col, 62; Woodrow Wilson fel, Harvard, 62, Danforth fel, 62-65, univ. fel, 63, M.A, 64, Ph.D, 66. Res. assoc, Washington Center For. Policy Res, Hopkins, 64-65; ASST. PROF. GOVT, TEXAS, 65- Consult, Inst. Defense Anal, 63-; consult. ed. int. polit, Holt, Rinehart & Winston, 67- AAAS; Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Gen. Syst. Res. Explanation and theory-building in international politics; arms control; social science prediction; international crises; philosophy of social science. Publ: Arms control in international politics, 68 & International political analysis, 68, Holt. Address: Dept. of Government, University of Texas, Austin, Tex. 78712.

EDWARDS, DR. DIANE DeARMUND, b. Indianapolis, Ind, May 4, 34; m. 66. EXPERIMENTAL PSYCHOLOGY. B.A, DePauw, 56; M.A, Syracuse, 58; Ph.D.(psychol), Fla. State, 64. Counsr. col. students, Syracuse, 56-58; col. women, Ohio State, 58-59; instr. col. psychol, Ind. Cent. Col, 59-61; asst. exp. psychol, Fla. State, 61-62, res. asst. psychol. lab, 62-64; ASST. PROF. PSYCHOL, MISSOURI, KANSAS CITY, 64- U.S.P.H.S. res. fel, 65-66; faculty res. grants, 66. Consult, Rockhurst Col, 66-67; pre-release guid, Fed. Bur. Prisons, Kansas City, Mo, 66-67. AAAS; Psychol. Asn. Role of contingencies in the control of behavior compared to non-contingent environments; behavioral management in the classroom. Publ: Multiple punishment schedule, J. Exp. Anal. Behav, 66; co-auth, Concurrent schedules of reinforcement and punishment, 66 & Some functions of collateral behavior, 67, Psychonomic Sci. Address: Dept. of Psychology, University of Missouri, Kansas City, Mo. 64110.

EDWARDS, DR. DOROTHY S(CHNEIDER), b. New Orleans, La, Mar. 19, 24; m. 56; c. 1. PSYCHOLOGY. B.A, Tulane, 44; M.A, Wisconsin, 45; Ph.D, Western Reserve, 55. Instr. psychol, Womans Col, North Carolina, 47-48; res. psychologist, U.S. Army Personnel Res. Off, D.C, 48-52; res. assoc. personnel res. inst, Western Reserve, 52-54; res. psychologist, U.S. Air Force Civilian Personnel Res. Br. Hq, 54-56; PRINCIPAL RES. SCIENTIST, AM. INST. RES, SILVER SPRING, MD, 56- Res. scientist, proj. talent, Pittsburgh, 58-60; instr, exten. div, Virginia, 59-62. Psychol. Asn. Criterion and driver research; development of predictor instrument. Publ: Co-auth, Relationship between rater characteristics and validity of rating, J. Appl. Psychol. and Forced choice ratings work, Personnel Psychol. Address: 216 S. Carolina Ave, S.E, Washington, D.C. 20003.

EDWARDS, PROF. EDGAR O(WEN), b. Foxborough, Mass, Dec. 20, 19; m. 46; c. 3. ECONOMICS. B.A, Washington & Jefferson Col, 47; M.A, Johns Hopkins, 49, Ph.D.(econ), 51. Instr. econ, Princeton, 50-51, lectr, 51-52, asst. prof, 52-56, assoc. prof, 56-59; HARGROVE PROF. ECON. & CHMN. DEPT. ECON. & BUS. ADMIN, RICE, 59- Guggenheim fel, 54-55. U.S.A, 42-46. Econ. Asn; Am. Acct. Asn. Profit concepts in economics and accounting; interest theories; depreciation and growth. Publ: Co-auth, Theory and measurement of business income; auth, Classical and Keynesian employment theories: a reconciliation, Quart. J. Econ; Indifference approach to the theory of the firm, South. Econ. J. Address: Dept. of Economics & Business Administration, Rice University, Houston, Tex. 77001.

EDWARDS, PROF. EDWARD E(VERETT), b. Bloomfield, Ind, July 15, 08. FINANCE. B.S, Indiana, 28, M.S, 34. Supvr. div. res. & statist, Dept. Financial Insts, 33-36; from asst. prof. to PROF. FINANCE, INDIANA, 36-42, 46-, spec. asst. to pres, 38-42. State dir, Nat. Youth Admin, 35-36; mem. res. staff, Nat. Bur. Econ. Res, 46-48; v.pres, Bus. & Real Estate Trends, 49- Part-time consult. to White House, U.S. Secy. Defense, Fed. Home Loan Bank Bd. & U.S. Bur. Census; Fed. Deposit Ins. Corp, 65- Mem. exec. cmt, Conf. Savings & Residential Financing, 58- U.S.A, 42-46, Lt. Col. Finance Asn.(secy-treas, 47-52, pres, 53); Econ. Asn. Banking, mortgage lending experience; savings and loan. Publ: Co-auth, Economics for savings and loan executives, Grad. Sch. Savings & Loan, pub. continually, 53-; auth, Indiana consumer credit agencies; Urban mortgage lending by savings and loan associations. Address: Indiana University School of Business, Box 183, Bloomington, Ind. 47401.

EDWARDS, DR. FORD K(INGSBURY), b. Lindsay, Ont, May 23, 01; nat; m. 35; c. 1. ECONOMICS. B.Sc, Iowa State, 25; fel. & M.A, Yale, 27, Ph.D.(econ), 33. Teacher, Southern California, 30-35; economist & exam, State Pub. Utilities Cmn, Calif, 35-39; prin. economist & dir. bur. accts. & cost finding, Interstate Commerce Cmn, 39-50; dir. econ, Nat. Coal Asn, 50-56; consult. transportation, Edwards & Peabody, D.C, 56-66; RETIRED. Lectr, American Univ, 56-67. Econ. Asn; Nat. Asn. Acct. Economic pricing of rail, motor and water transportation services; employment of cost and market analysis. Publ: Principles of motor transportation; Cost finding for rate making purposes; Rail freight service costs in the various rate territories of the United States. Address: 3501 S. Leisure World Blvd, Apt 2-D, Silver Spring, Md. 20906.

EDWARDS, FRANCES MARGARET, b. Omaha, Nebr, July 26, 97. CLINICAL PSYCHOLOGY. B.A, Omaha, 22, M.A, 35; California, 20; Columbia, 36-39; summer, Wyoming, 30. Teacher, pub. schs, Nebr, 22-36; instr. & spec. lectr, col. adult ed. & clin. psychologist child study serv, Omaha, 36-60; CLIN. PSYCHOLOGIST, W.H. THOMPSON ASSOCS, 60- Psychologist, Crippled Children's Clin. Lord Sch. Mem, Coun. Except. Children. Dipl, Am. Bd. Exam. Prfnl. Psychol, 47. AAAS; fel. Asn. Ment. Deficiency; Psychol. Asn. Retraining following paralyzing illnesses; special method for training the handicapped to write. Publ: Training hands for a better life, Carlton, 65. Address: 801 S. 52nd St, Apt. 2001, Omaha, Nebr. 68106.

EDWARDS, PROF. G(ILBERT) FRANKLIN, b. Charleston, S.C, June 2, 15; m. 46; c. 1. SOCIOLOGY. A.B, Fisk, 36; Rosenwald fel, Chicago, 41-42, 46-47, Ph.D.(sociol), 52. Instr. soc. studies, Fessenden Acad, Fla, 37-39; asst, Fisk, 39-40; instr. SOCIOL, HOWARD, 41-52, assoc. prof, 52-60, PROF, 60- Ford Found. fel, 53-54; Nat. Inst. Ment. Health res. grants, 62-63; lectr, dept. soc. rels, Harvard, 67. Mem, adv. coun, U.S. Off. Ed, 61-64; President's Cmt. Juvenile Delinquency & Youth Probs, 61-67; pub. mem, Nat. Capital Planning Cmn, 65-; secy. adv. cmt, Dept. Health, Ed. & Welfare, 67-; dir. adv. cmt, Nat. Insts. Health, 67-; mem, Joint Cmn. Ment. Health Children, 67- Consult, Cmn. Race & Housing. Sociol. Asn; Sociol. Res. Asn; Pop. Asn. Social stratification; urban sociology; race relations; sociology of the professions. Publ: The negro professional class, Free Press, Glencoe, 59; Occupational mobility of negro professional workers, In: Chicago contributions to urban sociology, Univ. Chicago, 64. Address: Dept. of Sociology, Howard University, Washington, D.C. 20001.

EDWARDS, DR. HARRY ELMO, b. South Lancaster, Mass, June 15, 92; m. 48; c. 2. PSYCHOLOGY. B.A, Columbia Union Col, 19; M.A, Northwestern, 26; Ph.D, Indiana, 33. Teacher & prin, private & pub. schs, 11-20; prof. psychol. & ed, Emmanuel Missionary Col, Andrews, 20-54; ASST. PROF. PSYCHIAT, SCH. MED, LOMA LINDA, 54- Fel. AAAS; Psychol. Asn; Nat. Voc. Guid. Asn; Am. Med. Asn. Personality factors found in marital discord and in the male homosexual. Address: 2204 Hollister Terr, Glendale, Calif. 91026.

EDWARDS, PROF. JAMES DONALD, b. Ellisville, Miss, Nov. 12, 26; m. 47; c. 1. ACCOUNTING, FINANCE. B.S, La. State, 49; M.B.A, Denver, 50; Ph.D, Texas, 53. PROF. ACCT. & FINANCE & CHMN. DEPT, MICH. STATE, 58- Vis. prof. & lectr, Aziendale Grad. Bus. Sch, Italy, 61-; vis. scholar, grad. sch. bus, Stanford, 67-68. Consult, Touche, Ross, Bailey & Smart. U.S.N, 44-46. Econ. Asn; Am. Acct. Asn.(v.pres, 65); Mgt. Asn; Finance Asn. Publ: Co-auth, Intermediate accounting, Irwin; The professional CPA examination, Vols. I & II, McGraw, 63; Accounting: a programmed text, Vols. I & II, Irwin, 67. Address: Dept. of Accounting & Finance, Michigan State University Graduate School of Business, East Lansing, Mich. 48823.

EDWARDS, DR. JOHN ALLAN, b. Chicago, Ill, Aug. 1, 27; m. 49; c. 3. AGRICULTURAL ECONOMICS. B.S, Wisconsin, 50; M.A, Nebraska, 52; Sears, Roebuck fel, Chicago, 55-56, Ph.D.(econ), 63. Res. asst. agr. econ, Nebraska, 50-52; Fed. Reserve Bank Kansas City, 54-55; econ, Chicago, 56-58; asst. prof. AGR. ECON, Idaho, 58-61; OREGON STATE, 61-66, ASSOC. PROF, 66- Consult, Nat. Sci. Found, 65; Stanford Res. Inst. U.S.N, 45-48; U.S.A, 52-53. Economet. Soc; Econ. Asn. Price analysis; econometrics. Address: Dept. of Agricultural Economics, Oregon State University, Corvallis, Ore. 97331.

EDWARDS, DR. JOHN N(ELSON), b. Eldorado, Ill, Nov. 2, 38; m. 60; c. 1. SOCIOLOGY. B.A, Park Col, 60; M.A, Nebraska, 62, Nat. Inst. Ment. Health fel. & Ph.D.(sociol), 65. ASST. PROF. SOCIOL, NEBRASKA, 65- Sociol. Asn; Nat. Coun. Family Rels. Sociology of the family; urban structures and ecology; medical sociology. Publ: The family and change, Knopf, 68; co-auth, Voluntary associations and the integration hypothesis, Sociol. Inquiry, 65; auth, The future of the family revisted, J. Marriage & Family, 67. Address: Dept. of Sociology, University of Nebraska, Lincoln, Nebr. 68503.

EDWARDS, DR. OZZIE, b. Chicago, Ill, Feb. 16, 36; m. 57; c. 2. SOCIOLOGY. B.A, Wheaton Col.(Ill), 58; M.A, Calif. State Col, 64; M.S.W, California, Los Angeles, 63; Ph.D.(sociol), Wisconsin, 68. ASST. PROF. SOCIOL, ILLINOIS, CHICAGO, 67- Sociol. Asn; Pop. Asn. Am. Demography; ecology; criminology; urban sociology; American minorities. Address: Dept. of Sociology, University of Illinois, Chicago, Ill. 60680.

EDWARDS, DR. RICHARD A(MBROSE), b. Roachdale, Ind, May 10, 22; m. 44; c. 2. POLITICAL SCIENCE, LAW. A.B, Indiana, 47; LL.B, Harvard, 49; Curtis fel, Columbia, 49-51, Ph.D, 52. Instr. polit. sci, Rutgers, 49-51; assoc. prof. govt. & law, Lafayette Col, 52-56; assoc. dir, legis. drafting res. fund, law sch, Columbia, 57-58; assoc. gen. counsel, Health Ins. Asn. Am, 58-66; v.pres, Assocs. Investment Co, 66-68; V.PRES, METROP. LIFE INS. CO, 68- Lectr, Am. Inst. of Banking, 52-53, 54-55; dir. res, Cmn. Govt. Security, 56-57; v.pres, Capitol Life Ins. Co, Inc, 66-68. Consult, Governor's Interdepartmental Cmt. Migratory Labor, Pa, 54-56. Mem. bd, Citizens Nat. Cmt. Higher Ed, Inc. & Assocs. Investment Co. Found, Inc, 66-68. Jones award, Lafayette Col, 55. U.S.A, 43-46, Capt. Bar Asn. Constitutional and insurance law; federalism. Publ: American constitutional law; Fourteenth amendment and civil liberty; Index digest of state constitutions. Address: Metropolitan Life Insurance Co, One Madison Ave, New York, N.Y. 10010.

EDWARDS, DR. ROBERT E(RNEST), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl II.

EDWARDS, PROF. VERNE E(RVIE), JR, b. Platteville, Wis, June 23, 24; m. 47; c. 2. JOURNALISM. B.S, Wis. State Col. & Inst. Tech, 47; M.S, Wisconsin, 49. Asst. Wisconsin, 48-49; instr. journalism. & Eng, Washington State, 49-52; asst. prof. JOURNALISM, OHIO WESLEYAN, 52-56, assoc. prof, 56-62, PROF, 62-, CHMN. DEPT, 53-, acting chmn. 52-53. Summer fels, various newspapers, 51-54, 56-59, 61-62, 64, 66-67. Chmn. contest consult, Fulfillment Corp. Am, 58-; chief ed. writer, Detroit Free Press, 62-63; mem, Am. Coun. Ed. in Journalism. U.S.A.A.F, 43-46, Sgt. Soc. Journalism Sch. Adminstr.(v.pres, 61, pres, 62); Asn. Ed. Journalism. Theories of press control and freedom; history of the press; analysis of public opinion. Publ: American Medical association and the press, J. Quart, 49; Try this at your house: interesting children in world affairs, Parents' Mag, 50; Let's revive newspaper editorials, Quill, 6/66. Address: Dept. of Journalism, Ohio Wesleyan University, Delaware, Ohio 43015.

EDWARDS, PROF. W(ALLACE) I(NWOOD), b. Cleveland, Ohio, June 16, 25; m. 50; c. 3. ECONOMICS. B.S, Miami (Ohio), 49; M.S, Wisconsin, 50, Ph.D. (econ), 53. Instr. ECON, MIAMI (OHIO), 53-55, asst. prof, 55-60, ASSOC. PROF, 60- U.S.A, 43-46. Econ. Asn. Public finance, particularly state and local government; transportation, especially national transportation policy; public utilities. Publ: Ohio highway expansion and financing, Miami Bus. Rev; co-auth, New model for an integrated transfer tax, Nat. Tax J. Address: Dept. of Economics, Miami University, Oxford, Ohio 45056.

EDWARDS, PROF. WARD, b. Morristown, N.J, Apr. 5, 27; m. 49; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Swarthmore Col, 47; M.A, Harvard, 49, Ph.D.(exp. psychol), 52. Instr. psychol, Hopkins, 51-54; res. psychologist, armament systs. personnel res. lab, personnel & training res. center, U.S. Dept. Air Force, 54-56, chief intellectual functions unit, operator lab, 56-58; lectr. PSYCHOL, MICHIGAN, 58-60, assoc. prof, 60-63, PROF, 63-, HEAD ENG. PSYCHOL. LAB, INST. SCI. & TECH, 63-, res. psychologist, 58-63. Consult, Syst. Develop. Corp, 62-; Rand Corp, 64- Psychol. Asn; Psychonomic Soc; Asn. Aviation Psychol.(pres. elect, 67). Higher mental processes; decision making; information processing. Publ: Decision making, Penquin, 67; Probability learning in 1000 trials, J. Exp. Psychol; Subjective probabilities inferred from decisions, Psychol. Rev. Address: Institute of Science & Technology, University of Michigan, P.O. Box 618, Ann Arbor, Mich. 48107.

EDWARDS, PROF. WILLIAM E(LLIS), b. New York, N.Y, June 30, 26; m. 50. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Columbia, 47, Ph.D.(anthrop), 54. Dir. res. proj. archaeol, State Geol. Surv, Fla, 51-52; res. assoc, Georgia, 52; dir. sub-proj, Hopkins, 52-53; instr. ANTHROP, Hunter Col, 53; asst. prof, Pittsburgh, 53-59; ASSOC. PROF, SOUTH CAROLINA, 59-, DIR. ARCHAEOL, INST. ARCHAEOL. & ANTHROP, 67- Nat. Sci. Found. sci. faculty fel, Chicago, 59-61; State archaeologist, S.C, 60-; dir. archaeol, S.C. State Dept. Archaeol, 63-67; participant, Summer Inst. Behav. Genetics, California, Berkeley, 64; Nat. Sci. Found. res. grant, 65-69. Consult, aeromed. field lab, Holloman Air Force Base, N.Mex, 61-, dir. res. proj. phys. anthrop, 62-65. U.S.N, 44-45, Res, 46-54, Ens. Anthrop. Asn; Soc. Am. Archaeol; Asn. Phys. Anthrop. Southeastern United States archaeology; musculo-skeletal anatomy and determinants of strength of man and other primates; biological, cultural and population history of man; extinction of Pleistocene megafauna. Publ: Study of monkey, ape and human morphology and physiology relating to strength and endurance: phases I-IX, Tech. Documentary Reports, Holloman Air Force Base, 63-65; The Sewee Mound shell midden, Charleston County, South Carolina, U.S. Forest Serv, 65; The late Pleistocene extinction and diminution in size of many mammalian species, Yale, 67. Address: Institute of Archaeology & Anthropology, University of South Carolina, Columbia, S.C. 29208.

EDWARDS, WILLIAM WAY, JR, Ed. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

EELLS, DR. JANET FRANCES, b. Lombard, Ill, Jan. 17, 13. CLINICAL PSYCHOLOGY. A.B, San Diego State Col, 51, M.A, 53; U.S. Pub. Health Serv. fel, Northwestern, 56-57, Ph.D, 60. Psychologist, bur. naval personnel, U.S. Dept. Navy, Calif, 53-55; trainee psychol, U.S. Vet. Admin, Ill, 57-60, CLIN. PSYCHOLOGIST, ment. hyg. clin, Westside Vet. Admin. Hosp, 60-61; VET. ADMIN. OUTPATIENT CLIN, LOS ANGELES, 61- Psychol. Asn. Effects of early experience; weekend therapy groups; effects of psychotherapy. Publ: Inconsistency of early handling and its effect upon emotionality; co-auth, Patients and therapists assess the same psychotherapy, 63 & auth, Therapists' views and preferences concerning intake cases, 8/64, J. Consult. Psychol. Address: 1567 Silverwood Dr, Los Angeles, Calif. 90041.

EELLS, DR. KENNETH W(ALTER), b. Seattle, Wash, Aug. 31, 13; m. 53; c. 1. PSYCHOLOGY. A.B, George Washington, 37; A.M, Chicago, 42, Ph.D.(ed), 48. Soc. studies teacher, N.Plainfield High Sch, N.J, 42-43; res. assoc, cmt. human develop, Chicago, 45, psychologist & statistician, gen. ed. bd. intel-test res. proj, 45-48; assoc. prof. psychol. & coordinator evaluation, San Diego State Col, 49-52; res. psychologist, U.S. Naval Personnel Res. Field Activity, San Diego, 52-55; from asst. prof. to assoc. prof. psychol. & counsr, student couns. serv, Illinois, 55-61; PSYCHOLOGIST, CALIF. INST. TECH, 61- Rosenberger res. prize, Chicago, 49. AAAS; Psychol. Asn; Personnel & Guid. Asn. Student counseling; psychological testing; student use of drugs. Publ: Co-auth, David-Eells test of general intelligence or problem-solving ability & Intelligence and cultural differences; How will the A.C.T. tests serve Illinois needs—a research report, Ill. Joint Coun. Higher Ed, 62. Address: 1201 California Ave, Pasadena, Calif. 91109.

EELLS, PROF. LeCLAIR H(EROLD), Finance, see 10th ed, Soc. & Behav. Vols.

EFFERSON, DR. CARLOS A, b. Dec. 19, 14; m. 37. VOCATIONAL EDUCATION, SOCIAL PSYCHOLOGY. Danforth fel, B.S. & M.S, La. State, 35; Gen. Ed. Bd. fel. & Ph.D, Cornell, 42. Mgt. develop. consult, Johnson & Johnson, 45-52; dir. mgt. develop. progs, KAISER ALUMINUM & CHEM. CORP, 52-54, MGR. ORGN. PLANNING, 54- Lectr. Management development; or-

ganization planning; industrial administration. Address: Kaiser Aluminum & Chemical Corp, 300 Lakeside Dr, Oakland, Calif. 94604.

EFFERSON, DEAN J(OHN) NORMAN, b. Holden, La, Nov. 18, 12. AGRICULTURAL ECONOMICS. B.S, Louisiana, 34; M.S, Cornell, 36, Ph.D, 38. Assoc. prof. agr. econ, LA. STATE, 38-41, prof, 42-48, 50-53, dir. agr. exp. sta, 53-55, DEAN COL. AGR, 56- Int. food specialist, U.S. Dept. Agr, 48-49, study El Salvador, 65; Ford Found. consult, Malaysia & Philippines, 66; consult. agr. develop. in Guyana, Agency Int. Develop, U.S. Dept. State, 67, spec. study Thailand agr. res. probs, summer 64; consult, Govt. Nicaragua, 67. Mem. bd, Agr. Develop. Coun, 54-; bd. consults, Rockfeller Found, 55-60; Rockefeller Bros. Panel, 58; Task-Force Cmt. Agr. Policy, 61; Am. Agr. Econ. Asn; Am. Acad. Arts & Sci; Int. Asn. Agr. Econ. Farm management; agricultural marketing; international trade in agricultural products. Publ: Farm records and accounts; Principles of farm management; Production and marketing of rice. Address: 5804 Boone Dr, Baton Rouge, La. 70808.

EFFROSS, DR. HARRIS I(RA), b. Brooklyn, N.Y. July 1, 29; m. 54. POLITICAL SCIENCE. Litt.B, Rutgers, 50; A.M, N.Y. Univ, 51; univ. scholar, Rutgers, 51-53, World Peace fel, 57-58, Ph.D.(polit. sci), 59. Asst. polit. sci, Rutgers, 51-54; govt. res, State Taxpayers Asn, N.J, 55-57; instr. govt, Fairleigh Dickinson, 58-59; res. assoc. polit. sci, BUR. GOVT. RES, RUTGERS, 59-62, asst. res. specialist, 62-65, ASSOC. RES. SPECIALIST, 65- Researcher, State Fedn. of Labor, N.J, 51-52. Polit. Sci. Asn; Soc. Pub. Admin. State and local government and history, especially New Jersey county government; political theory, especially American and progressive era; United States history since 1865; citizenship, parties, politics; comparative government; constitutional law. Publ: Adaptability of local government in six municipalities in the New Jersey portion of the Penjerdel region, Penjerdel, 65; Origins of post-colonial counties in New Jersey, 4/63 & Seven freeholders of Middlesex County, 10/65, Proc. N.J. Hist. Soc. Address: 614 Abbott St, Highland Park, N.J. 08904.

EFIMENCO, DR. N. MARBURY, b. Cortland, N.Y, June 29, 15; m. POLITICAL SCIENCE. A.B, Minnesota, 37, A.M, 40, Ph.D, 48. Instr. & lectr. army specialized training in Far East lang. & area studies, Minnesota, 42-44; acting head dept. polit. sci, Lake Forest Col, 45-46; res, Cornell, 46-47; asst. prof. polit. sci, Michigan, 47-57; cultural affairs officer, FOR. SERV, U.S. INFO. AGENCY, 57-67, DEP. CHIEF CULTURAL AFFAIRS OFFICER, NEW DELHI, 67- State dir. adult studies on Am. for. policy, Mich, 47-48. Polit. Sci. Asn; Soc. Int. Law; Asn. Asian Studies. International relations; Middle East studies; changing values of elites in South Asia; communication patterns in Asian society. Publ: Co-ed, New world political geography; auth, American impact upon Middle East leadership, Polit. Sci. J; The case of Mossadegh, J. Polit. Address: Foreign Service, U.S. Information Agency, Washington, D.C. 20547.

EFRAN, DR. JAY S(TEVEN), b. New York, N.Y, Oct. 10, 36; m. 67. PSYCHOLOGY. B.A, City Col. New York, 58, M.S, 59; Ph.D.(psychol), Ohio State, 63. ASST. PROF. PSYCHOL, ROCHESTER, CLIN. ASSOC, SCH. MED. & DENT. & ASST. PSYCHOLOGIST, STRONG MEM. HOSP, 63- Consult, Vet. Admin, 66- Psychol. Asn. Personality from a social learning viewpoint; behavior therapy; methods of personality measurement. Publ: Co-auth, The effect of expectancies for social approval on visual behavior, 66 & The angered: their susceptibility to varieties of humor, 67, J. Personality & Soc. Psychol. & Social desirability and the willingness to participate in a group discussion, Psychol. Reports, 67. Address: Dept. of Psychology, University of Rochester, Rochester, N.Y. 14619.

EFRAT, DR. EDGAR SHLOMO, b. Frankfurt, Germany, May 26, 24; m. 59. POLITICAL SCIENCE. B.A, Reed Col, 53; M.A, Texas, 55, Ph.D.(govt), 62. Asst. prof. POLIT. SCI, Huston-Tillotson Col, 57-58; lectr, Texas, 59-62; ASST. PROF, VICTORIA (B.C), 62- Coun. South. Univ. faculty fel, 58-59; vis. prof, Washington, summer, 66; Can. Coun. res. grant, 67. Brit. Army, 42-46; Israeli Army, 48-49. African Studies Asn; Am. Polit. Sci. Asn; Can. Polit. Sci. Asn; Royal African Soc. Publ: Co-auth, Introduction to sub-Saharan Africa, Blaisdell, 68; Incipient pan-Africanism: W.E.B. DuBois and the early days, Australian J. Polit. & Hist, 12/67. Address: Dept. of Political Science, University of Victoria, Victoria, B.C, Can.

EFRON, DR. HERMAN YALE, b. Brooklyn, N.Y, Apr. 30, 26; m. 47; c. 3. PSYCHOLOGY. B.S, City Col. New York, 47; M.A, Columbia, 49; Ph.D, N.Y. Univ, 53. Psychologist & intern, Brooklyn State Hosp, N.Y, 51-52; psychologist, Canarsie Child Guid. Clin, 52; sr. mem, proj. clin. & exp. eval. behav, N.Y. Univ, 52-53; psychologist, Riverside Hosp, New York, 53-54; res. psychologist, Louisville Vet. Admin. Hosp, Ky, 54-55; clin. psychologist, LYONS VET. ADMIN. HOSP, 56, res. psychologist, 56-57, LIAISON COORDINATOR PROG. EVAL. STAFF, 57-, ASST. CHIEF PSYCHOL. SERV, 66-, coordinator res, 60-66. Psychol. Asn; Statist. Asn. Treatment of hospitalized psychiatric patients; group and individual psychotherapy; activity and milieu therapy; psychopharmacological agents; assessment of psychiatric patients' attitudes toward work and their behavioral correlates. Publ: Attempt to employ a sentence completion test for the detection of psychiatric patients with suicidal ideas, J. Consult. Psychol; Changes in recognition thresholds associated with chlorpromazine, promazine and phenobarbital, J. Clin. Psychol; co-auth, Comparison of group-centered and individual centered activity programs, Arch. Gen. Psychiat. Address: 1076 Field Ave, Plainfield, N.J. 07060.

EFROYMSON, PROF. C(LARENCE) W(ALTER), b. Indianapolis, Ind, Nov. 1, 97. ECONOMICS. A.B, Harvard, 19; Ph.D, Vienna, 32. From lectr. to assoc. prof, BUTLER, 36-45, PROF. ECON, COL. BUS. ADMIN, 45- Chmn, City Mgr. Study Cmn, Ind, 39-40. Mem. staff, Off. Price Admin. & War Prod. Bd, Wash, D.C, 42-44. Am. Econ. Asn; Econ. Hist. Asn; Royal Econ. Soc. Economic theory; economic basis of collective settlement in Israel. Address: College of Business Administration, Butler University, Indianapolis, Ind. 46207.

EGAN, DR. DOUGLAS M, b. Los Angeles, Calif, Jan. 4, 33; m. 58; c. 5. BUSINESS ADMINISTRATION. B.S, California, Berkeley, 56, M.B.A, 57. Ph.D.(bus. admin), 65. Acting instr. BUS. ADMIN, California, Berkeley, 62-63, instr, 63-64; asst. prof, State Univ. N.Y. Buffalo, 64-67; ASSOC. PROF, OREGON STATE, 67- U.S.A, 57-58 & 61-62, 1st Lt. Mkt. Asn; Econ. Asn; Acad. Polit. & Soc. Sci. Aggregate consumer behavior; applications of non-metric analysis to consumer perceptions. Publ: Co-auth, Organization theory: a behavioral approach, Allyn & Bacon, 67; auth, Government contracts and R&D behavior in small firms, Northwest Bus. Mgt, 1/68; Experimentation in government procurement, J. Purchasing, 2/68. Address: School of Business Administration, Oregon State University, Corvallis, Ore. 97331.

EGAN, DR. EULA P(EARL), b. Winfield, Ala, Mar. 9, 94. PSYCHOLOGY. A.B, Judson Col, 16; summers, Chicago & Alabama; M.A, Columbia, 24; Ph.D, George Peabody Col, 31. Head dept. ed. psychol, Ala. State Teachers Col, Florence, 25-48; prof. psychol, Miss. State Col. for Women, 48-53; DIR. GUID. & RES, JEFFERSON COUNTY BD. ED, 53- Summers, prof, Ariz. State Col, 49, instr, Florida, 55, Maine, 57, Alabama, 60. Psychol. Asn. Address: Box 712, Winfield, Ala. 35594.

EGAN, PROF. JAMES P(ENDLETON), b. Missouri Valley, Iowa, Aug. 4, 17; div; c. 1. PSYCHOLOGY. B.A, Iowa, 38, M.A, 40; Ph.D.(psychol), Harvard, 47. Spec. res. assoc, psycho-acoustic lab, Harvard, 40-45, res. assoc, 46-47, instr. EXP. PSYCHOL, 46-47; asst. prof, Wisconsin, 47-49, assoc. prof, 49-51; assoc. prof, INDIANA, 51-57, PROF, 57-, DIR. HEARING LAB, 51- Fel. AAAS; Psychol. Asn; fel. Acoustical Soc; Soc. Exp. Psychol; fel. Speech & Hearing Asn. Psychophysics of hearing; psychoacoustics; communication theory. Address: Hearing & Communication Lab, Indiana University, Bloomington, Ind. 47401.

EGAND, DR. LEO M(AURICE), b. Vitebsk, Russia, Aug. 6, 20; U.S. citizen; m. 61. ECONOMICS, POLITICAL SCIENCE. A.B, N.Y. Univ, 42, A.M, 53, Ph.D.(regional studies), 55; A.M, Columbia, 43. Econ. affairs officer, UN, 47-52; analyst, Voorhees, Walker, Smith & Smith, 57; res. assoc, Cleveland Metrop. Serv. Cmn, 57-58; asst. supvr. econ. anal. sect, New York City Dept. City Planning, 58-59, supvr, 59-64; SR. MGT. CONSULT, OFF. ADMIN, NEW YORK CITY OFF. MAYOR, 64-, EXEC. DIR, INTER-AGENCY RES. COUN, 65- Lectr, Baruch Sch, City Col. New York, 61- Consult, Metrop. Regional Coun, 66- Econ. Asn; Statist. Asn; Polit. Sci. Asn. Economic and social aspects of urban problems. Publ: Co-auth, Financing government in a metropolitan area, Macmillan, 61 & The Cleveland metropolitan area—a fiscal profile, Cleveland Metrop. Serv. Cmn, 58; auth, Employment distribution in New York City and its central business district, New York City Dept. City Planning, 61. Address: 250 Broadway, 14th Floor, New York, N.Y. 10007.

EGBERT, DR. ALVIN C(HARLES), b. Cincinnati, Ohio, Sept. 23, 22; m. 47; c. 3. AGRICULTURAL ECONOMICS. B.S, Kentucky, 54, Opekasit fel, 54-55, M.S, 55; Ph.D, Iowa State, 58. Asst. agr. econ, Iowa State, 55-56, res. assoc, 56-57; agr. economist, farm econ. div, U.S. DEPT. AGR, 57-61, supv. anal. statistician, ECON. & STATIST. ANAL. DIV, 61-65, CHIEF OUTLOOK & PROJECTIONS BR, ECON. RES. SERV, 65- U.S.A.A.F, 43-45, Sgt. Agr. Econ. Asn.(award, Farm Econ. Asn, 58); Statist. Asn; Economet. Soc. Regional development and spatial equilibrium; long-range projections of agricultural development; general economic analysis methodology. Publ: Regional adjustments in grain production, U.S. Dept. Agr. Tech. Bull; Interregional competition of spatial equilibrium models in farm supply analysis, In: Agricultural supply functions; A dynamic model of the livestock-feed sector, J. Farm Econ, 12/65. Address: Economic & Statistic Analysis Division, Economic Research Service, U.S. Dept. of Agriculture, Independence Ave. between 12th & 14th, Washington, D.C. 20250.

EGBERT, PROF. DONALD DREW, Art, Archaeol, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EGBERT, DR. ROBERT L, b. Tetonia, Idaho, Oct. 17, 23; m. 45; c. 9. EDUCATIONAL PSYCHOLOGY. B.S, Utah State, 47, M.S, 48; Ph.D.(ed. psychol), Cornell, 49. Instr. psychol, Triple Cities Col, Endicott, 48; res. assoc, N.Y. State Ed. Dept, 49-50; asst. prof. psychol, Utah State, 50-52; sr. res. scientist, HumRRO, George Washington, 52-55; prof. ed. psychol, Brigham Young, 55-67; DIR. FOLLOW THROUGH PROG, U.S. OFF. ED, 67- Human factors scientist, Systs. Develop. Corp, 61-63, consult, 63-65; Xerox Corp, 65; proj. head start, U.S. Off. Ed, 65-67. U.S.N.R, 43-46, Lt.(jg). Psychol. Asn; Ed. Res. Asn; Asn. Ed. Data Systs. Education and development of economically disadvantaged children; human performance under conditions of psychological stress; development and operation educational systems. Publ: Co-auth, Measuring the effectiveness of instruction in vocational education, State Ed. Dept, N.Y, 2/51 & Fighter I: an analysis of combat fighters and non-fighters, HumRRO Tech. Report, 12/57; auth, The computer in education: malefactor or benefactor, Am. Fed. Info. Processing Socs. Conf. Proc, Spartan Books, 63. Address: U.S. Office of Education, 400 Maryland Ave, S.W, Washington, D.C. 20202.

EGELAND, DR. BYRON R, b. Roland, Iowa, Nov. 2, 38; m. 66. PSYCHOLOGY, EDUCATION. B.A, Drake, 61; M.A, Iowa, 63, Ph.D.(ed. psychol), 66. Res. asst. ed. psychol, Iowa, 62-64, instr, 65-66; ASST. PROF. PSYCHOL, SYRACUSE, 66- U.S.A, 56. Psychol. Asn; Ed. Res. Asn; Coun. Except. Children. Uses of role playing in an educational setting. Publ: Co-auth, Interscorer reliability on the Bender Gestalt and visual retention test, Am. J. Ment. Deficiency, 7/67; auth, Influence of examiner and examinee anxiety on WISC performance, Psychol. Reports, 8/67. Address: Dept. of Psychology, Syracuse University, Syracuse, N.Y. 13210.

EGER, DR. LAWRENCE MARQUETTE, b. Chicago, Ill, Sept. 16, 23; m. 58; c. 2. SOCIAL & CLINICAL PSYCHOLOGY. B.S, Northwestern, 48; M.S, Purdue, 53, Ph.D, 55. Training specialist, Rand Corp, 55-57; asst. prof. psychol, Akron, 57-58; instr, Oregon State, 58-59; trainee clin. psychol, Vet. Admin. Hosp, Seattle, Wash, 59-60; CLIN. PSYCHOLOGIST, NAPA STATE HOSP, 60- U.S.A.A.F, 43-46, Sgt. Psychol. Asn. Functioning of organizations; supervision; staff development; group, individual, married couple and family therapy; consultation in community psychology. Address: 3671 Dover St, Napa, Calif. 94558.

EGER, DR. MARTIN F, Theoret. Physics, see Suppl. II & IV to 11th ed, Phys. & Biol. Vols.

EGERER, PROF. GERALD V(INCENT), b. London, Eng, Aug. 5, 29. ECONOMICS. B.Sc, London Sch. Econ, 52; Dr. en Droit, Lyon, 57. Asst, Ministry Defence, Eng, 52-54; staff economist, Kodak, Ltd, 56-60; asst. prof. ECON, West. Wash. State Col, 60-62; Wisconsin, Milwaukee, 62-64; Humboldt State Col, 64-65; ASSOC. PROF. & CHMN. DEPT, SONOMA STATE COL, 65- Summers, Ford faculty res. fel, California, Los Angeles, 62; Wisconsin grant-in-aid, agr. res. Europe, 63; Gen. Elec. grant, Chicago Seminar Appl. Econ, 66; guest lectr, Nat. Defense Ed. Act Inst, Stuttgart, 67. R.A.E.C, 48-49, Sgt. Instr. Am. Econ. Asn; fel. Royal Econ. Soc. International economics and trade; problems and prospects of European integration. Publ: Towards a United States of Western Europe, Quart. Rev. Econ. & Bus; Protection and Imperial preference in Britain: the case of wheat, 1920-1960, Can. J. Econ. & Polit. Sci, 8/65; The political economy of British wheat, 1920-1960, Agr. Hist, 10/66. Address: Dept. of Economics, Sonoma State College, 1801 E. Cotati Ave, Rohnert Park, Calif. 94928.

EGGAN, PROF. FRED R, b. Seattle, Wash, Sept. 12, 06; m. 39. ANTHROPOLOGY. Ph.B, Chicago, 27, M.A, 28, Ph.D.(anthrop), 33. Instr, Wentworth Jr. Col, Lexington, Mo, 28-29; asst. anthrop, CHICAGO, 33-34, assoc, 34-35, instr, 35-40, asst. prof, 40-42, dir. field studies, 41-42, assoc. prof. ANTHROP, 42-48, PROF, 48-, DIR. PHILIPPINE STUDIES PROG, 53-, dir. civil affairs sch, 43-45, chmn. dept. anthrop, univ, 48-51 & 61-63. Dir. field studies, U.S. Dept. Interior, 41-42; res, off. spec. serv, Philippine Govt, 43; cultural rels. officer, For. Serv, 45; Fulbright res. scholar, Philippines, 49-50; Guggenheim fel, 53-54; fel, Center Adv. Study Behav. Sci, Calif, 58-59; Lewis H. Morgan lectr, Rochester, 64. Consult, Bd. Econ. Warfare, 42. Chmn. cmt. Asian anthrop, Nat. Res. Coun, 48-50; personnel cmt, Soc. Sci. Res. Coun, 48-49, chmn. bd. dirs, 55-57; mem. cmt. sci. pub. policy, Nat. Acad. Sci, 55-57, mem. coun, 67-70; mem. President's Cmt. Scientists & Engrs, 56-57, adv. bd, soc. sci. div. Nat. Sci. Found, 60-62; sr. adv. bd, Encyclop. Britannica; Pac. Sci. Bd, 67- Secy, Cong. Prehistorians Far East, 35. Viking Fund medal & award, 56. U.S.A, 43, Capt. Nat. Acad. Sci; Philos. Soc; Am. Acad. Arts & Sci; fel. Anthrop. Asn.(secy, 41-43, v.pres, 47, pres, 53); Soc. Appl. Anthrop; Ethnol. Soc; Asn. Asian Studies; hon. fel. Royal Anthrop. Inst. Social anthropology; ethnology; acculturation. Publ: Social organization of western pueblos; ed, Social anthropology of North American tribes; auth, The American Indian, Aldine, 66. Address: Dept. of Anthropology, University of Chicago, Chicago, Ill. 60637.

EGGER, PROF. NORMAN L(UDWIG), b. Ferndale, Mich, Feb. 21, 24. PSYCHOLOGY. B.A, San Diego State Col, 46; M.A, California, 48, Ph.D, 54. PROF. PSYCHOL, SAN JOSE STATE COL, 55- Clinical psychology; psychodynamics of suicide. Address: Dept. of Psychology, San Jose State College, San Jose, Calif. 95114.

EGGER, PROF. ROWLAND (ANDREWS), b. Denison, Tex, Apr. 12, 08; m. 32; c. 1. PUBLIC ADMINISTRATION. A.B, Southwestern, 26, LL.D, 59; Arnold fel, Southern Methodist, 26-27, A.M, 27; univ. fel, Michigan, 28-29, Ph.D, 33. Assoc. prof. polit. sci, Virginia, 31-36, dir. bur. pub. admin, 31-56, prof. 36-64, chmn. dept, 57-64, chmn. Woodrow Wilson dept. for. affairs, 56-64; PROF. POLIT. & PUB. AFFAIRS, PRINCETON, 64- Secy-gen. joint cmt. planning & coop, Int. Union Local Authorities & Inst. Admin. Sci, Belgium, 35-36; dir. budget, Commonwealth of Va, 39-42; gen. mgr, Corp. Boliviana de Fomento, 42-45, dir, 42-47; vis. prof, Columbia, 47-48; v.pres, Admin. Tribunal UN, 50-53; assoc. dir, Pub. Admin. Clearing House, 50-53; Near East rep, Ford Found, 54-56; vis. prof, Harvard, 61; spec. rep. of President, Bolivia, 61-62. Adv. to Prime Minister, Pakistan, 53; v.chmn, Inter-Univ. Case Prog, 56-; trustee & secy. corp, Nat. Inst. Pub. Affairs, 62- Officer, Order of Leopold, Belgium; Knight Cmdr, Order of the Condor, Bolivia; Cmdr, Order of Cedars, Lebanon. Polit. Sci. Asn; Am. Soc. Pub. Admin.(v.pres, 39; ed-in-chief, Pub. Admin. Rev, 47-49); Nat. Acad. Pub. Admin; Royal Inst. Pub. Admin.(Haldane prize, 60). Administrative management; budgeting and planning; international administration. Publ: Social and economic development of Bolivia, Agency Int. Develop, 62; co-auth, The President and Congress, 63 & auth, The President of the United States, 67, McGraw. Address: Woodrow Wilson School, Princeton University, Princeton, N.J. 08540.

EGGERS, PROF. MELVIN A(RNOLD), b. Ft. Wayne, Ind, Feb. 21, 16; m. 41; c. 3. ECONOMICS. A.B, Indiana, 40, A.M, 41; Ph.D.(econ), Yale, 50. Instr. ECON, Yale, 47-50; asst. prof, SYRACUSE, 50-54, assoc. prof, 54-64, PROF, 64-, CHMN. DEPT, 60- Vis. asst. prof, San Diego State Col, 52. U.S.N.R, 43-46, Lt. Econ. Asn; Finance Asn. Money and banking; economic development. Publ: Co-auth, The level of economic activity, 65 & The composition of economic activity, 65, Holt. Address: Dept. of Economics, Syracuse University, College of Liberal Arts, Syracuse, N.Y. 13210.

EGGERT, ROBERT J(OHN), b. Little Rock, Ark, Dec. 11, 13; m; c. 3. MARKETING, ECONOMICS. B.S, Illinois, Urbana, 35, M.S, 36. Asst, Minnesota, 36-38; asst. prof, Kans. State Col, 38-41; asst. dir. mkt, Am. Meat Inst, 41-43, economist & assoc. dir, 44-50; mkt. res. mgr, Ford. div, FORD MOTOR CO, 50-53, prog. planning mgr, 53-54, bus. res. mgr, 54-57, mkt. res. mgr, mkt. staff, 57-61, Ford div, 61-64, mkt. staff, 64-65, overseas mkt. res. planning mgr, 64-66, MGR. MKT. RES. DEPT, LINCOLN-MERCURY DIV, 66-; DIR. AGRIBUS. PROGS, MICH. STATE, 68- Lectr. bus, Chicago. Chmn. bd. trustees, Fed. Statist. Users Conf. Fel. Statist. Asn; Econ. Asn; Agr. Econ. Asn; Mkt. Asn.(v.pres, 51). Marketing management; economics and business forecasting; consumer research. Publ: Black market in meats; co-auth, Value added by marketing; marketing research behind the automobile of the future. Address: Agribusiness Programs, Michigan State University, Room 121, Agriculture Hall, East Lansing, Mich. 48823.

EGGERTSEN, PROF. PAUL, b. Provo, Utah, July 11, 01; m. 30; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Brigham Young, 26; A.M, Columbia, 29; Ed.D, Temple, 42. Instr. econ. & finance, Temple, 29-42; analyst indust. rel, Lockheed Aircraft Corp, 42-45; PROF. ECON. & BUS. ADMIN, LOYOLA (CALIF), 45- Summers, Am. Risk & Ins. Asn. fels, 53-56; Hughes Aircraft Co. fel, 58. Econ. Asn. Publ: Denmark's insurance industry, J. Ins. Address: 8351 Colegio Dr, Los Angeles, Calif. 90045.

EGLASH, DR. ALBERT, b. Los Angeles, Calif, Jan. 9, 20; m. 56. PSYCHOLOGY. B.A, California, Los Angeles, 47, M.A, 48; Ph.D, Michigan, 51. Instr. psychol, Mich. State, 51-52; res. psychologist, Merrill-Palmer Sch, 52-53; rehab. counsr, City of Detroit, 53-54, youth serv. asst, 54-56; instr. psychol, Wis. State Col.(La Crosse), 56-58; asst. prof, Wash. Col, 58-60; assoc. prof. & chmn. dept, Detroit Inst. Tech, 60-63; dir. Achievement House, 63-64; psychologist, Dept. Ment. Hyg, 64-65; ASST. DIR. RES, DEPT. REHAB, LOS ANGELES OFF, 66- Summers, Nat. Sci. Found. res. fel, 59, Soc. Sci. Res. Coun. res. grant, 60, Ford Found. res. grant, 61. U.S.A, 41-45. AAAS; Psychol. Asn. Statistical and systems analysis; data processing. Publ: Youth anonymous: an evaluation after 7 years, Ford Found, 61; A group-discussion method of teaching psychology, J. Ed. Psychol. 54; co-auth, Measurement of intellectual conviction, J. Soc. Psychol, 58. Address: 250 Grand, San Luis Obispo, Calif. 93401.

EGLE, PROF. WALTER PAUL, b. Freiburg, Germany, Jan. 30, 04; nat; m. 41; c. 1. ECONOMICS. Ph.D, Freiburg, 30. Rockefeller Found. fel, 33; asst. prof. econ, Ohio State, 36-44; prin. economist, Alien Property Custodian, 44-45; TAFT PROF. ECON, CINCINNATI, 46-, DIR. GRAD. STUDIES ECON, 65- Econ. Asn; Asn. Comp. Econ. Monetary theory and policies; international economics; economic stabilization. Publ: Neutral money; Economic stabilization: objectives, rules and mechanisms. Address: Dept. of Economics, University of Cincinnati, Cincinnati, Ohio 45221.

EHALT, PROF. VIRGINIA SMITH, b. Elizabeth, N.J, July 13, 25; m; c. 2. PSYCHOLOGY. A.B, Bucknell, 46, M.A, 52. Asst. prof. PSYCHOL, Lycoming Col, 54-58; Bucknell, 58-64; ASSOC. PROF, LOCK HAVEN STATE COL, 64- Consult, psychologist, Family & Children's Welfare Agency, 60- Psychol. Asn. Child psychology; clinical and projective techniques. Address: 123 N. Water St, Mill Hall, Pa. 17751.

EHLERS, PROF. CARROL WALTER, b. Dix, Nebr, Aug. 4, 20; m. 45; c. 1. MARKETING. B.B.A, Colorado, 42, M.B.A, 50; fel, Indiana, 50-53, D.B.A, 55. Asst. MKT, Colorado, 49-50; asst. prof, Florida, 53-55; GA. STATE COL, 55-58, assoc. prof, 58-60, PROF, 60- Ford Found. fel, Harvard, 64-65. U.S.N.A.F, 42-46, Lt.(jg). Mkt. Asn. International marketing; marketing management, problems and policy; selling and sales management. Publ: Utilizing psychological testing in selecting personnel, Ga. State Col, 60; The new concept of marketing management, Atlanta Econ. Rev, 63; The application of behavioral sciences to marketing, South. Bus. J, 66. Address: Dept. of Marketing, Georgia State College, 33 Gilmer St, S.E, Atlanta, Ga. 30303.

EHLERS, PROF. WALTER H(ENRY), b. New York, N.Y, May 3, 12; m. 35; c. 3. SOCIAL WELFARE. B.S, N.Y. Univ, 36, M.A, 42; D.S.W, Brandeis, 62. Group leader, Greenwich House, New York, 36-37; from asst. boys' work secy to assoc. exec, YMCA, 37-45, mem. staff, Golden Gate YMCA, Calif, 45-50, exec. dir, Kauai County YMCA, Hawaii, 50-52; exec. dir, Palama Settlement, Hawaii, 52-59; Ford res. grant, Action for Boston Community Develop, 61-62; dir. dept. urban develop, United Community Serv. Metrop. Boston, 62-65; PROF. SOC. WORK, FLA. STATE, 65- Counsr, soc. adjustment of gifted, N.Y. Univ, 38-39; teacher, exten. serv, N.Y. Univ, 37-40; Golden Gate Col, 48-49; Northeastern, 63-65; Simmons Col, 64-65; Boston Col, 64-65. Nat. Asn. Soc. Workers; Nat. Conf. Soc. Welfare; Coun. Soc. Work Ed; Int. Conf. Soc. Work. Computer assisted instruction in the development of social work curricula. Publ: Mothers of retarded children, how they feel, where they seek help, C.C. Thomas, 66; Proposal for a local planning organization within United Community Services, United Community Serv. Metrop. Boston, 64; The moderately and severely retarded child: maternal perceptions, Am. J. Ment. Deficiency, 3/64. Address: Dept. of Social Work, Florida State University School of Social Welfare, Tallahassee, Fla. 32306.

EHLING, DR. WILLIAM P(HILIP), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

EHLSHLAGER, ADAM C(HARLES) A(UGUSTUS), Econ, see 10th ed, Soc. & Behav. Vols.

EHMER, DR. MARJY NICCOLL, b. New York, N.Y, Feb. 3, 27; div; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 47; N.Y. Univ, 47-49; Ph.D.(psychol), Rochester, 59. Lab. asst. psychol, Brooklyn Col, 46-48, instr, 47-48; asst, Rochester, 48-51; res. asst. appl. exp. psychol, Tufts Col, 51-54; instr. ed. & psychol, Rhode Island, 54-58, asst. prof, 58-60; psychol, Bridgeport, 60-61, assoc. prof, 61-62; trainee clin. psychol, U.S. Vet. Hosp, West Haven, Conn, 62-63; ASSOC. PROF. PSYCHOL, SOUTH. CONN. STATE COL, 63- Instr, Brandeis, 52; interviewer, Nat. Opinion Res. Center, Mass, 53. AAAS; Psychol. Asn. Physiological psychology, especially neural correlates of behavior; human engineering; perceptual and motivational processes; attitude and opinion measurement; cross-cultural studies of values; sensory psychology; body image; psychodiagnostic testing; new techniques in teaching. Publ: Co-auth, Handbook of human engineering data, 2nd ed, rev, Tufts Col, 52; The effect of monocular light stimulation upon the perception of the body midline: a developmental study, J. Psychol, 65; Navel drift in normal and hemiplegic subjects, Arch. Phys. Med. & Rehab, 66. Address: 497 Dogwood Rd, Orange, Conn. 06477.

EHMER, PROF. RICHARD H(ENRY), b. Brooklyn, N.Y, Nov. 12, 26; m. 48, 67; c. 1. PSYCHOLOGY. A.B, Brooklyn Col, 47; Ph.D.(psychol), Rochester, 53. Asst. psychol, Rochester, 47-51; mem. staff, Lincoln Lab, Mass. Inst. Tech, 51-54; res. psychologist, U.S. Naval Med. Res. Lab, 54-60; assoc. prof. PSYCHOL, BRIDGEPORT, 60-67, PROF, 67- AAAS; Psychol. Asn; Acoustical Soc. Physiological psychology; audition; mathematical psychology; design of experiments; learning theory. Publ: Masking patterns of tones & Masking by tones vs noise bands, J. Acoustical Soc. Am. Address: Dept. of Psychology, University of Bridgeport, Bridgeport, Conn. 06602.

EHRENFELD, PROF. SYLVAIN, b. Antwerp, Belgium, June 4, 29; nat; m. 55; c. 2. MATHEMATICAL STATISTICS. B.S, City Col. New York, 50; M.S, Columbia, 51, Ph.D.(math. statist), 56. Res. assoc. statist, res. div, N.Y. Univ, 57-58, assoc. prof. indust. eng. & opers. res, 58-61; indust. eng, Columbia, 61-66; PROF. OPERS. RES, N.Y. UNIV, 66- Ord.C, U.S.A, 55-57, Res, 57- Fel. Statist. Asn; Inst. Math. Statist; Inst. Mgt. Sci; Opers. Res. Soc. Statistical methods in experimental design. Publ: Co-auth, Statistical method, McGraw; Randomization and factorial experiments, Ann. Math. Statist; Complete class theorems in experimental design. Address: Dept. of Industrial Engineering, New York University, University Heights, Bronx, N.Y. 10453.

EHRENFREUND, PROF. DAVID, b. New York, N.Y, May 24, 17; m. PSYCHOLOGY. B.A, Iowa, 43, M.A, 45, Ph.D.(psychol), 47. Instr. PSYCHOL, State Col. Wash, 47-49, asst. prof, 49-53, assoc. prof, 53-56; PROF. & HEAD DEPT, Adelphi Col, 56-62; SOUTHERN ILLINOIS, 62- AAAS; Psychol. Asn; Psychonomic Soc. Learning theory; motivation; drive-reward interaction. Publ: Experimental test of the continuity theory of discrimination learning with pattern vision; Transposition in children as a function of age; Response strength as a function of drive level and pre- and post-shift incentive magnitude, J. Exp. Psychol, 62. Address: Dept. of Psychology, Southern Illinois University, Carbondale, Ill. 62901.

EHRENREICH, DR. GERALD ALFRED, b. Buffalo, N.Y, Jan. 10, 19; m. 42; c. 5. PSYCHOLOGY. B.A, Buffalo, 40, M.A, 42; Topeka Inst. Psychoanal, 47-54; Ph.D.(clin. psychol), Kansas, 56. Psychologist, Menninger Found, 47-59; CLINICAL PSYCHOLOGIST, 59- U.S.A.A.F, 42-46, 1st Lt. Psychol. Asn. Practice, teaching and research in psychotherapy and psychoanalysis. Publ: Headache, necrophilia and murder, Menninger Clin. Bull; co-auth, Natural history of an outcome prediction, J. Proj. Tech. Address: 601 E. 63rd St, Kansas City, Mo. 64110.

EHRENREICH, PROF. JOSEPH W, b. New York, N.Y, Dec. 21, 20; m. 49; c. 4. ECONOMICS, SOCIAL PSYCHOLOGY. B.B.A, City Col. New York, 40; M.B.A, Southern California, 48; Ph.D.(soc. psychol), N.Y. Univ, 63. Chief economist, textile planning, War Prod. Bd, 41-43, 45-47; res. analyst, Prudential Ins. Co, Calif, 48-52, res. mgr. & economist, 52-56, assoc. dir, planning & res, N.J, 56-60, dir, 60-64; PROF. BUS. ECON, SOUTHERN CALIFORNIA & DIR. RES. INST. BUS. ECON, 64-, lectr, 53-55. Asst. dir, Cmt. Econ. Develop, 55-56, mem. area develop. res. adv. bd, 56-58. Chmn. econ. sect, Town Hall, Los Angeles, 65- U.S.N.R, 43-45, Lt. Comdr. Econ. Asn; Asn. Pub. Opinion Res. Macroeconomics; human relations; regional economics. Address: Dept. of Business Economics, University of Southern California, Los Angeles, Calif. 90007.

EHRICH, DR. ROBERT W(ILLIAM), b. New York, N.Y, Apr. 23, 08; m. 37; c. 2. ANTHROPOLOGY. A.B, Harvard, 31, M.A, 33, Shaw fel, 45-46, Ph.D. (anthrop), 46. Field asst. & anthropologist in Iraq, Peabody Mus, Harvard, 29-30; assoc. field dir, Neolithic excavations, joint exped, Univ. Mus, Pennsylvania & Peabody Mus, Harvard, Czech, 29-31; archaeol. reconnaissance, Jugoslavia, 32-33; asst. field dir. & acting field dir. excavations, Tarsus, Turkey, 34-39; archaeologist, Nat. Park Serv, Saratoga Battlefield Nat. Park, N.Y, 40-42; surveyor, war contracts, Michael Baker, Jr, Pa, 42; Rockefeller Found. fel. humanities, Harvard, 46-47; instr. ANTHROP, BROOKLYN COL, 47-52, asst. prof, 52-55, assoc. prof, 55-62, PROF, 62-Instr, evening session, Hunter Col, 48-61; Nat. Sci. Found. grants, excavations Czech, 60 & 61; European prehist, 63-64; Wenner Gren Found. grant, 64; Smithsonian Inst. grant, 67; exec. officer anthrop, City Univ. New York, 66-68. Area ed, Coun. Old World Archaeol, Cent. Europe & Balkans. Mem. permanent coun, Int. Union Prehist. & Protohist. Sci, 62-; adv. panel anthrop, Nat. Sci. Found, 62-64; for. currency prog, Smithsonian Inst, 65- Hon. cor. mem, German Archaeol. Inst, 66- U.S.M.C.R, 43-45, Lt. Col. Fel. AAAS; fel. Am. Anthrop. Asn; Am. Ethnol. Soc; Am. Asn. Phys. Anthrop; Archaeol. Inst. Am; Royal Anthrop. Inst. Gt. Brit; hon. mem. Archaeol. Soc. Yugoslavia. Physical anthropology; anthropometry; archaeology; geography and culture history; methodology and theory in anthropology. Publ: Ed, Relative chronologies in Old World archaeology; co-auth. & ed, Chronologies in Old World archaeology, Univ. Chicago, 65; co-auth, Homolka: an Eneolithic village in Bohemia, Am. Sch. Prehist. Res. Bull. & Archaeol. Inst, Czech, 67. Address: Dept. of Anthropology, Brooklyn College, Brooklyn, N.Y. 11210.

EHRICH, DR. ROLLO L, b. Blue Earth, Minn, Oct. 3, 35; m. 55; c. 2. AGRICULTURAL ECONOMICS, MARKETING. B.S, Minnesota, 57, M.S, 59; M.A, Stanford, 61, Ph.D.(agr. econ), 65. Economist, econ. res. wheat mkt, Agr. Res, Inc, Dunlap & Assocs, 61-62; from asst. prof. to ASSOC. PROF. AGR. ECON, WYOMING, 63- Econ. consult. agr. econ, U.S. Agency Int. Develop. contract to Argentina, administered by Texas A&M, 68- Agr. Econ. Asn. Agricultural prices and marketing; econometric analysis of livestock price cycles and livestock-futures markets. Publ: Economic analysis of the United States beef-cattle cycle, Wyo. Agr. Exp. Sta. Sci. Monogr, 4/66; Impact of government programs on hedging in wheat futures markets, Food Res. Inst. Studies, Vol. 6, No. 3; Direct marketing futures trading and efficiency of the beef-cattle marketing system, Wyo. Agr. Exp. Sta. Res. J, 5/67. Address: Dept. of Agricultural Economics, University of Wyoming, Laramie, Wyo. 82070.

EHRLICH, DR. ANNETTE, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

EHRLICH, DR. DAN JOSEPH, b. New York, N.Y, July 27, 33. PHYSIOLOGICAL PSYCHOLOGY. A.B, Clark, 54; M.Sc, McGill, 58, Ph.D.(psychol), 63. Res. assoc. PSYCHOL, Inst. Psychosom. & Psychiat. Res. & Training, Michael Reese Hosp, 60-63; U.S. Pub. Health Serv. fel, Jackson Lab, 63-65; ASST. PROF, COLUMBIA, 65- AAAS; Psychol. Asn. Electrophysiological correlates of behavior; neural basis of learning, perception and motivation; comparative electrophysiology. Publ: Co-auth, The effects of gentling and shock on growth and behavior in rats, Can. J. Psychol, 58, Reversibility of the Necker cube. I An examination of the concept of satiation of orientation, Perceptual & Motor Skills, 63 & Electrophysiological concomitants of simple operant conditioning in the rat, Neuropsychologia, 67. Address: Dept. of Psychology, Schermerhorn Hall, Columbia University, New York, N.Y. 10027.

EHRLICH, DR. DANUTA, b. Warsaw, Poland, Jan. 3, 31; nat. PSYCHOLOGY. B.A, Queens Col.(N.Y), 53; M.A, Minnesota, 57, Ph.D, 58. Res. asst. soc. psychol, soc. rels. lab, Minnesota, 53-57; res. trainee, ment. hyg. clin, Vet. Admin. Center, St. Paul, 57-58; res. assoc, psychosom. & psychiat. inst, Michael Reese Hosp, 58-63; PSYCHOLOGIST, ILL. STATE PSYCHIAT. INST, 63- Lectr, Chicago, 61-62; asst. prof, col. med, Illinois, 63- Psychol. Asn; Sociol. Asn. Small group research; motivation theory; personality theory; measurement and change of attitudes; social factors in mental illness. Publ: Co-auth, Psychiatric ideologies & institutions, Free Press, Glencoe, 64; Postdecision exposure to relevant information, J. Abnorm. & Soc. Psychol; A profile study of sociotherapeutically oriented psychiatrists, Am. J. Orthopsychiat, 62. Address: Illinois State Psychiatric Institute, 1601 W. Taylor St, Chicago, Ill. 60612.

EHRLICH, DR. EDNA E, b. New York, N.Y, Jan. 8, 19; m. 49. ECONOMICS. A.B, Brooklyn Col, 43; A.M, Columbia, 44; Ph.D, New Sch. Soc. Res, 60. Economist, FED. RESERVE BANK OF NEW YORK, 44-62, chief, balance payments div, 62-67, SR. ECONOMIST, 67- U.S. Info. Serv. summer lectr, 63-65. Consult. dept. econ. affairs, UN, 51. Econ. Asn; Finance Asn. International finance; United States balance of payments; United States business conditions; monetary economics; Japanese money and banking; economics of the Middle and Far East; theory of economic development. Publ: Postwar credit policies in Japan, Rev. Econ. & Statist; co-auth. Japan, In: Banking systems. Address: Federal Reserve Bank of New York, 33 Liberty St, New York, N.Y. 10045.

EHRLICH, DR. EMANUEL, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

EHRLICH, PROF. HOWARD J(AY), b. Brooklyn, N.Y, Sept. 14, 32; m. 61; c. 1. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Ohio State, 53, M.A, 55; Ph.D.(sociol, soc. psychol), Mich. State, 59. Res. assoc. hwy. traffic, Mich. State, 57-59; res. assoc. psychiat. & asst. prof. sociol, Ohio State, 59-62; proj. dir, community proj. sect, ment. health study center, Nat. Inst. Ment. Health, 62-65; ASSOC. PROF. SOCIOL. & ANTHROP. & DIR. PROG. SOC. PSYCHOL, IOWA, 65- AAAS; Sociol. Asn; Psychol. Asn; Soc. Study Social Probs. Interpersonal processes; prejudice and intergroup relations; research methodology; political sociology; philosophy of the social sciences. Publ: Co-ed, Power and democracy in America, Univ. Notre Dame, 61; co-auth, An examination of role theory, Univ. Nebraska, 66. Address: Dept. of Sociology & Anthropology, University of Iowa, Iowa City, Iowa 52240.

EHRLICH, DR. NATHANIEL J, b. Boston, Mass, July 26, 40; m. 63; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Harvard, 61; Ph.D.(psychol), Michigan, 64. Lectr. & res. assoc. psychol, dept. psychol, Michigan, 64-65, asst. res. psychologist, ment. health res. inst, 65-66, hwy. safety, 66-67; ASST. PROF. PSYCHOL, CITY COL. NEW YORK, 67-; RES. ASSOC, CHILD WELFARE LEAGUE AM, 67- Lectr, Eastern Michigan, 65-66; exten. serv, Michigan, 66-67. Psychol. Asn. Automobile driving; general theories of human performance; mathematical biology; experimental control by hypnosis; alcoholism research. Publ: Co-auth, Screening instrument to detect alcoholism, Univ. Michigan, 67; Hypnotic control of a tracking task, 64 & Toward a taxonomy of automobile driving, 66, Perc. & Motor Skills. Address: Dept. of Psychology, City College of New York, 138th St. at Convent Ave, New York, N.Y. 10031.

EHRMAN, LIBERT, b. New York, N.Y, July 3, 16; m. 40; c. 2. SOCIAL SCIENCE, ECONOMICS. B.S.S, City Col. New York, 51. Chief safety anal, Civil Aeronautics Admin, 45-54; assoc, Samuel Weiss Res. Assocs, 54-55; v.pres, SURVS. & RES. CORP, 55-56, exec. v.pres, 56-65, PRES. & CHMN. BD, 65- Consult, Gen. Elec. Co; United Fruit Co; Senate For. Rels. Cmn; Chilean Nitrate Corp; Am. Asn. Adv. Sci; President's Cmn. Scientists & Engrs; Nat. Sci. Found; Nat. Insts. Health; Agency Int. Develop; Govt. of Chile, Peru, Ecaudor & S.Korea; Fed. Aviation Agency; U.S. Dept. Army; U.S. Bur. Roads; Soc. Security Admin. U.S.A.A.F, 43-45. AAAS; Statist. Asn; Planning Asn; Inst. Mgt. Sci; Acad. Polit. & Soc. Sci; World Asn. Pub. Opinion Res. Economic development; manpower; statistical system design; management and organization; tariff and trade. Publ: Opportunities for investment in Chile, Praeger, 66; An economic and managerial appraisal of Ecuador's government owned enterprises, U.S. Govt, 63; The supply of and demand for sociologists and anthropologists, U.S. Govt, 67. Address: Surveys & Research Corp, 1030 15th St. N.W, Washington, D.C. 20005.

EHRMANN, PROF. HENRY W(ALTER), b. Berlin, Germany, Mar. 10, 08; nat; m. 39; c. 2. POLITICAL SCIENCE. LL.B, Berlin, 29; Dr. Jur, Freiburg, 32; hon. M.A, Dartmouth Col, 62. Res. assoc, grad. faculty, New Sch. Soc. Res, 40-43; ed. specialist, U.S. Govt, 43-47; assoc. prof. polit. sci, Colorado, 47-50, PROF, 50-61; GOVT. DARTMOUTH COL, 61- Mem, Inst. Adv. Study, 50; vis. prof, California, 56; Univs. Bordeaux & Grenoble, France, 58-59, 62; Fulbright lectr, Nice, 58, 62; vis. prof, Free Univ. Berlin, 67- Ed. consult, Ford Found, 64- Polit. Sci. Asn; Am. Soc. Int. Law. Comparative government and international law; jurisprudence and legal philosophy. Publ: French labor from popular front to liberation, Oxford Univ, 47; Organized business in France, Princeton, 57; Politics in France, Little, 68. Address: Dept. of Government, Dartmouth College, Hanover, N.H. 03755.

EHRMANN, DR. JOHN C(LARENCE), b. Milwaukee, Wis, Sept. 25, 25; m. 47; c. 1. CLINICAL PSYCHOLOGY. B.A, Wisconsin, 49; M.A, Mich. State, 51, Ph.D, 55. Psychologist, Vet. Admin, 52-55; CHIEF PSYCHOLOGIST, psychiat. serv, Wis. State Prison, 55-62; Wash. County Guid. Center, West Bend, Wis, 62-65; Grant Country Guid. Center, Lancaster, Wis, 65-67; MED. ASSOCS, 67- Psychologist, pub. schs, Mich, 53-54; instr, exten, Wisconsin, 58-; lectr, Dubuque, 67-; Clarke Col, 67- Consult, State Hosp. Prog, 65- U.S.N, 43-46. Psychol. Asn. Psychotherapy; personality development; behavior modification; psychotherapeutic techniques. Publ: Co-auth, Diagnosis and treatment of the sexual offender, McGraw, 62; Current psychiatric therapies, Grune, 64; Complexity of response in schizophrenic vocabulary, J. Abnorm. & Soc. Psychol. Address: Medical Associates, 1200 Main St, Dubuque, Iowa 52001.

EICHER, DR. JAMES E, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

EICHHORN, PROF. ROBERT L(EE), b. Yates Center, Kans, Apr. 24, 24; m. 47; c. 2. SOCIOLOGY. A.B, Kansas, 47, A.M, 49; Ph.D, Cornell, 54. From asst. prof. to PROF. SOCIOL, PURDUE, 54- Dir. Interagency Rels. Provision Health Serv, 65; mem, environ. health inst, Purdue, 65-; health serv. res. training cmt, U.S. Pub. Health Serv, 67-69. U.S.A, 43-45. Fel. Sociol. Asn. Medical sociology. Publ: Co-auth, The changing Protestant ethic: rural patterns in health, work and leisure, Am. Sociol. Rev, 8/61, Compliance with medical regimens: a panel study, J. Health & Human Behav, winter 63 & Poverty & health, In: Poverty in the affluent society, Harper, 66. Address: Dept. of Sociology, Purdue University, West Lafayette, Ind. 47907.

EICHLER, PROF. HERBERT, b. Brooklyn, N.Y, Aug. 21, 28; m. 53; c. 2. PSYCHOLOGY. B.A, City Col. New York, 52, M.S, 53; Ph.D.(clin. psychol), Rochester, 62. Asst. prof. PSYCHOL, State Univ. N.Y. Col. Oswego, 59-61; Teachers Col, Columbia, 61-65; assoc. prof, Fairleigh Dickinson, 65-67; PROF, W.VA. STATE COL, 67- Psychol. Asn. Language; human learning; personality; teaching the disadvantaged. Address: Dept. of Psychology, West Virginia State College, Institute, W.Va. 25112.

EICHLER, DR. ROBERT M, b. New York, N.Y, Jan. 3, 21; m. 46; c. 1. PSYCHOLOGY. M.A, Iowa, 49, Ph.D.(psychol), 50. Supv. clin. psychologist, univ. hosps, Iowa, 50; clin. psychologist, Brooklyn Vet. Admin. Hosp, N.Y, 50-51; clin. psychologist & chief res, Vet. Admin. Ment. Hyg. Clin, New York, N.Y, 51-57; EXEC. DIR, NASSAU-SUFFOLK CONSULTATION SERV, MASSAPEQUA, 57- U.S. Pub. Health Serv. fel, Nat. Inst. Ment. Health, 50; teaching asst, Columbia, 51; lectr, Brooklyn Col, 54-57; chief psychologist, S.Shore Guid. Clin, N.Y, 57-58. Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 56. U.S.A.A.F, 43-46. Fel. Psychol. Asn. Psychotherapy; psychoanalysis; family and group psychotherapy. Publ: Anxiety and Rorschach signs of anxiety, J. Abnorm. & Soc. Psychol; Comparison of Behn-Rorschach and Rorschach, J. Consult. Psychol; Comment on controlling responses on Rorschach test, Psychol. Bull. Address: 185-16 56th Ave, Flushing, N.Y. 11365.

EICHMAN, DR. WILLIAM J(ULIUS), b. U.S, Jan. 4, 24; m. 48; c. 2. CLINICAL PSYCHOLOGY. B.S, Rutgers, 50; M.A, Iowa, 53, Ph.D.(psychol), 55. Clin. psychologist, Vet. Admin. Hosp, Roanoke, 55-59, res. psychologist, 59-60, chief psychol. serv, 60-65; ASSOC. PROF. PSYCHOL, NORTH CAROLINA & DIR. PSYCHOL. SERV, JOHN UMSTEAD HOSP, BUTNER, 65- U.S.A, 43-45. Psychol. Asn. Test construction for personality assessment; prediction of behavior with objective tests. Publ: Replicated factors on the MMPI with female neuropsychiatric patients, J. Consult. Psychol; Counseling the emotionally disturbed, J. Rehab; Factored scales for the MMPI, J. Clin. Psychol, 7/62. Address: Dept. Psychology, Davie Hall, University of North Carolina, Chapel Hill, N.C. 27514.

EICHNER, DR. ALFRED, b. Washington, D.C, Mar. 23, 37; m. 60; c. 2. ECONOMICS, ECONOMIC HISTORY. A.B, Columbia, 58, Ph.D.(econ), 66. Preceptor ECON, COLUMBIA, 63-64, instr, 64-66, ASST. PROF, 66- Consult, U.S. Maritime Admin, 62-66. U.S.A.R, 58-64. Econ. Asn; Econ. Hist. Asn. Economic theory; industrial organization; corporate pricing. Publ: Co-auth, The troublesome presence, Macmillan, 63; auth, The emergence of oligopoly: sugar refining as a case study, (in prep); The theory of oligopoly, (in prep). Address: 503 Lewisohn Hall, Columbia University, New York, N.Y. 10027.

EICHORN, DR. DOROTHY H(ANSEN), b. Montpelier, Vt, Nov. 18, 24; m. 47; c. 1. PSYCHOLOGY. A.B, Vermont, 47; M.A, Boston, 49; Ph.D, Northwestern, 51. Jr. res. psychologist, INST. HUMAN DEVELOP, CALIFORNIA, 52-54, asst. res. psychologist, 54-60, assoc. res. psychologist, 60-67, RES. PSYCHOLOGIST, 67-, LECTR. PHYSIOL, COL. LETTERS & SCI, 52-, ADMINSTR, CHILD STUDY CENTER, 62- Mem. small grants rev. cmt, Nat. Inst. Ment. Health, 66-70. Fel. AAAS; fel. Psychol. Asn; Soc. Res. Child Develop; Soc. Psychophysiol. Res; Psychonomic Soc. Physiological psychology; child development; learning. Publ: Comparison of laboratory determinations and Wetzel grid estimates of basal metabolism among adolescents, J. Pediat; Biological correlates of behavior, In: Child Psychology, Nat. Soc. Study Ed. Yearbook, 63; co-auth, Some determinates of perceptual investigatory responses in children, J.Exp. Child Psychol, 65. Address: Child Study Center, University of California, 2425 Atherton St, Berkeley, Calif. 94704.

EICHORN, DR. JOHN RAHL, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

EICKHOFF, DR. WILLIAM DEAN, b. Chamois, Mo, Sept. 10, 33; m. 58; c. 3. AGRICULTURAL ECONOMICS. B.S, Missouri, 59, M.S, 60; Ph.D.(agr. econ), Ohio State, 63. Res. asst. agr. econ, Missouri, 59-60; instr, Ohio State, 60-63; asst. prof, Georgia, 63-66; SUPVR. MKT. RES, CHOW DIV, RALSTON PURINA, 66- U.S.A, 53-55. Farm Econ. Asn; Mkt. Asn. Marketing research. Publ: Consolidation of milk processing plants and its effect upon market concentration, Am. Farm Econ. Asn, 12/63; Efficiency of oats movements in the South, South. Coop. Series Bull. 96, 12/64; Structure and performance of the Georgia broiler industry, Asn. South. Agr. Workers J, 2/66. Address: Ralston Purina, 835 S. Eighth St, St. Louis, Mo. 63199.

EIDMAN, DR. VERNON ROY, b. Mascoutah, Ill, Aug. 24, 36; m. 58; c. 2. AGRICULTURAL ECONOMICS. B.S, Illinois, 58, M.S, 61; Ph.D.(agr. econ), California, Berkeley, 65. ASST. PROF. AGR. ECON, OKLA. STATE, 64- U.S.A, 58-59, Res, 59-66, 1st Lt. Agr. Econ. Asn; Econ. Asn; Economet. Soc. Farm management and production economics research; impact of water resource development on agricultural areas. Publ: Optimum fertilization rates for crops with multi-harvest periods, 11/63 & An application of statistical decision theory to commercial turkey production, 11/67, J. Farm Econ. Address: Dept. of Agricultural Economics, Oklahoma State University, Stillwater, Okla. 74074.

EIDT, PROF. ROBERT C, b. Mt. Pleasant, Mich, Jan. 20, 23. GEOGRAPHY. A.B, California, Los Angeles, 47, M.A, 51, Ph.D.(geog), 54; U.S. Dept. State fel, Colombia, 52-53. Asst. prof. GEOG, Los Angeles State Col, 53; instr, Minnesota, 54-56; asst. prof, California State Col, Los Angeles, 56-60, assoc. prof, 60-64, PROF, 64-66; WISCONSIN, MILWAUKEE, 67- Fulbright prof. & head Center Colonization, Nat. Univ. Ayacucho, 60; Nat. Sci. Found. sr. res. grant, 64-66. U.S.A.A.F, 42-46, Lt. Asn. Am. Geog; Meteorol. Soc; Geog. Soc. Latin America, especially Colombia, Peru and Argentina; tropical agriculture; climatology; colonization; pioneer settlement. Publ: Climatology of Cundinamarca, Colombian Acad. Sci; Pioneer settlement in eastern Peru, Ann. Am. Asn. Geogr; Japanese agricultural colonization in Latin America: a new attempt at land opening in Argentina, Econ. Geog. Address: Dept. of Geography, University of Wisconsin, Milwaukee, Wis. 53211.

EIDUSON, DR. BERNICE T, b. Buffalo, N.Y, Aug. 21, 21; m. 43. PSYCHOLOGY. B.A, Buffalo, 43, M.A, 44; Ph.D.(psychol), California, Los Angeles, 57. Acting instr. psychol, Buffalo, 43-44; clin. intern & psychologist, Buffalo Guid. Center, 44-46; chief clin. psychologist, Hacker Psychiat. Clin, 46-59, res. psychologist, Hacker Psychiat. & Ed. Found, 57-59; chief clin. psychologist, REISS-DAVIS CHILD GUID. CENTER, 59-61, RES. DIR. CHILD PSYCHOL. & PSYCHIAT, 61- Consult, dept. psychol, Southern California, 59-61; res. consult, various hosps, clins. & schs. AAAS; Psychol. Asn; Orthopsychiat. Asn; Soc. Proj. Tech. Psychology of artists and scientists; infant development; decision-making in diagnosis in psychiatry; psychiatric case history event system, a generalized psychiatric information processing system. Publ: Scientists: their psychological world, Basic Books, 62; co-auth, Biochemistry and behavior, Van Nostrand, 64; auth, Psychiatric case history event system: manual of transcription procedures, with lexicons, Reiss-Davis Child Study Center, 4/66. Address: Reiss-Davis Child Study Center, 9760 W. Pico Blvd, Los Angeles, Calif. 90035.

EIGENBRODE, DR. CHARLES R(OBERT), b. Frederick, Md, May 18, 29; m. 56. PSYCHOLOGY. A.B, Lebanon Valley Col, 50, M.A, George Washington, 51; fel, Pittsburgh, 56-57, State Ohio fel, 57-59, U.S. Pub. Health Serv. fel, 59-60, Ph.D, 60. CLIN. PSYCHOLOGIST, Lima State Hosp, 55-56; Butler Ment. Health Guid. Clin, Pa, 59-60; Staunton Clin, sch. med, Pittsburgh, 60; Summit County Receiving Hosp, Cuyahoga Falls, Ohio, 60-62; PRESSLEY HOUSE, 62-, ASST. DIR, 65- Psychol. consult, Child Welfare Serv. Allegheny County, 65-; Protestant Home for Children, 67- U.S.A.F, 51-55, Sgt. Psychol. Asn. Measurement and study of personality variables; psychotherapy; psychodiagnosis; behavior modification techniques. Publ: Body image barrier concept & Factor analytic investigation of personality variables and reminiscence in motor learning, J. Abnorm. & Soc. Psychol. Address: Pressley House, Marshall Ave, Pittsburgh, Pa. 15214.

EIKAAS, DR. FAITH HARRIET, b. Biddeford, Maine, Mar. 31, 26; m. 60; c. 3. SOCIOLOGY, ANTHROPOLOGY. B.A, Syracuse, 48, M.A, 54, D.S.Sc.(Am. studies), 58. Instr. soc. sci, Ferris State Col, 59-62; res. assoc. sociol. & anthrop, West. Wash. State Col, 63-65, lectr, 64-65; asst. prof. sociol, Cent. Wash. State Col, 64; asst. prof. SOCIOL. & ANTHROP, Wis. State, Superior, 65-66; ASSOC. PROF, MEMPHIS STATE, 66- Anthrop. Asn; Soc. Appl. Anthrop; Polit. Sci. Asn; Sociol. Asn; Acad. Polit. & Soc. Sci. Political and social ramifications of economic development; preparation of audio-visual instructional materials. Address: Dept. of Sociology, Memphis State University, Memphis, Tenn. 38111.

EILBERT, PROF. LEO R(EUBEN), b. New York, N.Y, Mar. 3, 25; m. 48; c. 2. CLINICAL PSYCHOLOGY. M.S, City Col. New York, 49; Ph.D.(psychol), Pittsburgh, 52. Res. scientist psychol, Am. Inst. Res, 55-64; PROF. BEHAV. SCI, N.Y. INST. TECH, 64- Lectr, Wichita; overseas exten, Maryland; Baruch sch, grad. div, City Col. New York, 62-64. U.S.N, 44-46; U.S.A, 50-55. Psychol. Asn. Curriculum development and appraisal; criterian development; psychology of adjustment, particularly to conditions of environmental stress; personnel research. Publ: A Tentative definition of emotional immaturity utilizing the critical incident technique, Personnel & Guid. J, 5/57; A survey to determine indoctrination needs for personnel at isolated arctic sites, Arctic Aeromedical Lab, Tech. Note, 1/59; Criterian development for police performance in New York City, Am. Psychol. Asn. Symposium, 9/64. Address: 8 Skywood Court, Yonkers, N.Y. 10710.

EILBIRT, PROF. HENRY, b. Paris, France, Nov. 30, 14; U.S. citizen; m. 38; c. 2. MARKETING, MANAGEMENT. B.S, City Col. New York, 34, M.S, 50; Ph.D.(personnel, ed), N.Y. Univ, 56. PROF. MKT. & ASST. DEAN, BARUCH COL, 46- Dir. spec. mkt. serv, Klein Inst. Aptitude Testing, 53-; Danforth fel. bus. & ethics, summer, 58; Ford Found. fels. new develop. in bus, 59, 62 & 64. Consult. spec. projs, many bus. firms, 50- Mkt. Asn; Econ. Asn; Acad. Polit. & Soc. Sci. Personnel administration, especially the area of employee counseling; the role of the salesman; consumer behavior; marketing history. Publ: Co-auth, Principles of marketing, Pitman, 61; auth, 20th century beginnings in employee counseling, Bus. Hist. Rev, 57; Current counseling practices in industry, J. Bus, Chicago, 58. Address: Dept. of Marketing, Baruch College, 17 Lexington Ave, New York, N.Y. 10010.

EILERS, DR. ROBERT D, b. Ft. Dodge, Iowa, Nov. 8, 30; m. 60; c. 2. HEALTH ECONOMICS. B.S, Drake, 52; M.B.A, Pennsylvania, 57, Ph.D. (econ), 61. Asst. prof. INS, WHARTON SCH, PENNSYLVANIA, 61-65, ASSOC. PROF. INS. & ASST. V.PROVOST, 65-, EXEC. DIR, LEONARD DAVIS INST. HEALTH ECON, 67- U.S.N, 52-55, Res, 55-, Comdr. Econ. Asn; Pub. Health Asn. Publ: Regulation of Blue Cross and Blue Shield plans, 63 & co-auth, Group insurance handbook, 65, Irwin; Risk and insurance, Prentice-Hall, 64. Address: Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

EILERT, DR. JOHN WILLIAM, b. Barrington, Ill, Oct. 18, 26; m. 50; c. 1. ECONOMICS. A.B, Wheaton Col.(Ill), 51; M.S. Northern Illinois, 58; H.B. Earhart fel, Illinois, 61-62, Ph.D.(econ), 63. Teaching asst. econ, Illinois, 58-62; asst. prof, St. Olaf Col, 62-66; ASSOC. DIR. BUR. BUS. & ECON. RES, MEMPHIS STATE, 66- U.S.A, 55-57. Econ. Asn; Statist. Asn. Illinois business corporation development; regional economics; banking. Publ: Population, economic base, and potential, 67 & The upper Cumberland economy, 67, Memphis State; Illinois business corporation development 1860-'69, Harvard Bus. Hist. Rev, 8/63. Address: Bureau of Business & Economic Research, Memphis State University, Memphis, Tenn. 38111.

EIMAS, DR. PETER D(ORMAN), b. Bridgeport, Conn, Nov. 5, 34; m. 59; c. 1. B.A, Yale, 56; M.A, Connecticut, 59, U.S. Pub. Health Serv. fel, 61-62, Ph.D. (psychol), 62. Nat. Inst. Ment. Health fel. PSYCHOL, Connecticut, 62-63; res. assoc, Queen's (Ont), 63-64; asst. prof, Williams Col, 64-67; Douglass Col, Rutgers, 67-68; ASSOC. PROF. BROWN, 68- Nat. Inst. Child Health & Human Develop. res. grant, 64-70. AAAS; Psychol. Asn; Psychonomic Soc; Soc. Res. Child Develop. Learning theory; discrimination learning and concept formation; language; learning in children. Publ: The relation between identification and discrimination along speech and non-speech continuum, Language & Speech, 63; Stimulus compounding in the discrimination learning of kindergarten children, 65 & Optional shift behavior in children as a function of overtraining, irrelevant stimuli and age, 67, J. Exp. Child Psychol. Address: Dept. of Psychology, Brown University, Providence, R.I. 02912.

EIMICKE, DR. VICTOR W(ILLIAM), b. New York, N.Y, Feb. 4, 25. INDUSTRIAL PSYCHOLOGY. B.A, N.Y. Univ, 45, M.A, 46, Ph.D, 51. Lectr. & voc. guid. counsr, Brooklyn Col, 46-47; PRES, V.W. EIMICKE ASSOCS, INC, 47-, CHMN. & MANAGING DIR, EIMICKE & ASSOCS, LTD. 56- Dir, New Eng. Grocer Supply Co, 64-; trustee, Halsted Sch, Yonkers, 66- Mem. testing & adv. bd. & chmn. audio-visual training methods, City Col. New York, 47-55; mem, Inst. Dirs, Eng. Psychol. Asn; Nat. Inst. Indust. Psychol, Brit. Selection of personnel; evaluation of training programs; management organization. Address: 20 Hereford Rd, Bronxville, N.Y. 10708.

EINAUDI, PROF. MARIO, b. Dogliani, Italy, Sept. 8, 04. POLITICAL SCIENCE. J.D, Turin, 27; Rockefeller Mem. Found. fel, Harvard, 28; Ph.D, Rome, 32. Asst. prof. polit. sci, Messina, 32-33; instr. govt. & tutor div. hist. govt. & econ, Harvard, 33-37; asst. prof. polit. sci. & int. rels, Fordham, 39-45; assoc. prof. govt, CORNELL, 45-47, prof, 47-62, WALTER S. CARPENTER, JR. PROF. INT. & COMP. POLIT, 62-, chmn. dept. govt, 51-56 & 59-63, founding dir, center. int. studies, 61, dir. 66-68. Int. Inst. Polit. Philos, Polit. Sci. Asn; Coun. For. Rels; Turin Acad. Sci. International and comparative politics: political theory; comparative government. Publ: Nationalization in France and Italy, 55 & The early Rousseau, 67, Cornell; The Roosevelt revolution, Harcourt, 59. Address: 212 Overlook Rd. Ithaca, N.Y. 14850.

EINDHOVEN, JAN E(NGELBERT), b. Honolulu, Hawaii, May 29, 25. PSYCHOLOGY. B.A, Stanford, 47; M.A, Hawaii, 49; Virginia, 49-51; Ill. Inst. Tech. 53. Asst. psychomet, Psychol. Corp, 51-52; res. assoc, Asn. Am. Med. Col, 52-54; statistician, Alden's Co, 54-55; surv. psychologist, U.S. Qm. Food & Container Inst. Armed Forces, 55-59; proj. dir. surv, interview res. inst. div, Mkt. Res. Corp. Am, 59-60; chief, sensory eval. lab, U.S. Qm. Food & Container Inst. Armed Forces, 61-63; RES. PSYCHOLOGIST, Food & Drug Admin, 63; U.S. Dept. Agr, 63-65; U.S. CIVIL SERV. CMN, 65- Psychol. Asn. Measurement of consumer attitudes and behavior: correlation of attitudes with behavior; variables associated with changing attitudes; nature of creative processes; relation of psychological principles to plastic arts. Publ: Co-auth, Creative processes in painting, J. Gen. Psychol: Food preferences of men in the U.S. Armed Forces & Measurement of preferences for food combinations, Food Tech. Address: 1301 Delaware St. S.W, Apt. N 816, Washington, D.C. 20024.

EINHORN, DR. CARL M(URRAY), b. New York, N.Y, Oct. 21, 22; m. 47; c. 3. COUNSELING PSYCHOLOGY. B.A, Yeshiva Col, 45; M.A, Michigan, 51, Ph.D, 56. Asst. prof. soc. sci. & Eng, Lawrence Inst. Tech, 47-52; supvr. soc. work, Jewish Community Center, 52-55; teacher & counsr, high sch, N.J, 55-57; Vet. Admin. trainee, Univ. Michigan, 57-58, UNIT PSYCHOLOGIST & COORDINATOR INCENTIVE THER, VET. ADMIN. HOSP, LYONS, 58- Instr, Fairleigh Dickinson, 61-65; mem. adj. staff, Newark State Col, 63- Private practice of psychol. Counsr. consult, lab. psychol. studies, Stevens Inst. Tech, 58-; Youth Guid. Coun, 60-68. Psychol. Asn. Rehabilitation; motivation; interest testing: mental hygiene; education. Publ: Co-auth, A work rehabilitation program for chronic hospitalized schizophrenics, Am. J. Orthopsychiat, 3/62. Address: 44 Yorktown Rd, East Brunswick, N.J. 08816.

EINHORN, DR. HENRY A, b. New York, N.Y, Apr. 4, 34. ECONOMICS. B.S, Syracuse, 54; Harvard, 54-55; M.A, Columbia, 57, Ph.D.(econ), 63. Econ. res. asst, Nat. Bur. Econ. Res, Inc, 56-58; indust. analyst, Economet. Inst, Inc, 59-60; bus. economist, antitrust div, U.S. Dept. Justice, 60-61; fel, Watson Labs, Columbia, 61-62; Edward W. Bok fel. & Fulbright grantee, Netherlands Sch. Econ, 62-63; asst. prof. econ, Pa. State, 63-64; City Col. New York, 64-66; ECONOMIST, ECON. DEVELOP. ADMIN, U.S. DEPT. COMMERCE, 66- Consult. economist, off. transportation res, U.S. Dept. Commerce, 64-65. Econ. Asn; Statist. Asn; Regional Sci. Asn. Economic theory; statistics; corporation finance; labor problems; economic history; industrial organization; history of economic thought. Publ: Co-auth, Enterprise monopoly in the United States: 1899-1958, Columbia Univ. Press & Economic aspects of antitrust, Random; Competition in American industry, 1939-1958, J. Polit. Econ, 10/66. Address: 2712 Wisconsin Ave. N.W, Washington, D.C. 20007.

EINSPAHR, DR. MARTIN H(ARLEY), b. Kenesaw, Nebr, Apr. 17, 10; m. 42; c. 5. PSYCHOLOGY. B.S, Concordia Teachers Col.(Nebr), 40; Lamar State Col. Tech, 49-55; Texas, 50; M.Ed, Houston, 50, Ph.D.(psychol), 59. Prin. & teacher, pub. schs, Nebr, 33-37; prin, Minn, 37-39, Tex, 40-41, 47-55; marine elec. eng. technician, Bethlehem Shipbuilding Co, Tex, 41-45; prin, pub. schs, Iowa, 45-47; lectr. math, Lamar State Col. Tech, 55; counsr. & instr. psychol, Houston, 55-59, supv. counsr, 59-60, acting dir. counseling & testing serv, 60; vis. prof. psychol, Concordia Teachers Col.(Ill), 60; assoc. prof. psychol. & dir. counseling, Tex. Wesleyan Col, 60-62; COUNSR, GOVT. LOANS ADV. & CONSULT. INSTR. PSYCHOL, FULLERTON JR. COL, 62- Asst. prof, Calif. State Cols, Fullerton, Long Beach & Los Angeles, 63- Consult, Beaumont Remedial Center, 52-59: Mid-County Reading Therapy Center, 54-59; State Off. Voc. Rehab. & Spec. Ed, 55-; pub. sch. dist, Houston, 59-60. Consult. psychologist, schs, cols. & churches, Orange County, 62- Cert. psychologist, U.S. Civil Serv. Bd. Exam. for Vet. Admin, 62. Psychol. Asn; Personnel & Guid. Asn. Causes of language arts difficulties in elementary school children; relationship between interests and failure in college. Publ: Construction and validation of scales for predicting academic success in college. Address: Dept. of Psychology, Fullerton Junior College, 321 E. Chapman Ave, Fullerton, Calif. 92632.

EINZIG, DR. ROBERT S(TANLEY), b. Detroit, Mich, Dec. 17, 21; m. 42; c. 3. ECONOMICS. A.B, Wayne, 42; M.A, Michigan, 48, Ph.D.(econ), 52. Instr. econ, Wayne, 46-47; Michigan, 49-52; financial economist, Fed. Reserve Bank of San Francisco, 52-60, v.pres, 60-62; CONSULT. ECONOMIST, 62- Econ. consult, 46-52. U.S.A, 43-45. Am. Econ. Asn; Royal Econ. Soc. Money and banking; public control of industry; business cycles. Publ: Civil aeronautics board control over domestic air routes and competition; Interregional flow of funds, J. Finance; Trade credit, In: Small business finance study. Address: 351 California St, San Francisco, Calif. 94104.

EISDORFER, DR. CARL, b. Bronx, N.Y, June 20, 30; m; c. 3. GERONTOLOGY, PHYSIOLOGICAL PSYCHOLOGY. B.A, N.Y. Univ, 51, A.M, 53, Ph.D, 59; M.D, Duke, 64. Interviewer, Psychol. Corp, N.Y, 51; soc. investr, Bur. Child Guid, New York, 52-53, sch. psychologist, 53-54; asst, geriat. proj, DUKE, 56-58, instr. med. psychol, 58-59, assoc, 59, asst. prof, 59-64, assoc. prof, 64-68, psychiat, 67-68, PROF. MED. PSYCHOL. & PSYCHIAT, 68-, DIR. TRAINING & RES. COORDINATOR, CENTER STUDY AGING & HUMAN DEVELOP, 65- U.S.Pub. Health Serv. spec. fel, 62; field selection officer, Peace Corps, 66- Consult, Colliers Encyclop. Reference Serv, 56-; Halifax County Health Dept, N.C, 59-; ment. health sect, State Bd. Health, 60-61; spec. consult, World Wide Physicans Prog, consult, child develop. counsr. proj, Children's Hosp, D.C. & psychiat. res. consult, Vet. Admin. Hosp, Bay Pines, Fla, 66-; div. res. grants, Nat. Insts. Health, 68- Secy. combined conf, Am. Inst. Biol. Sci, Atomic Energy Cmn. & Nat. Instn. Ment. Health, 58-60. U.S.A, 54-56. Fel. Psychol. Asn; fel. Geront. Soc; Soc. Res. Child Development; fel. Geriat. Soc; Soc. Psychophysiol. Res. Intellectual changes in development and in later maturity: learning and physiological changes in senescence; community psychology. Publ: Psychological reaction to cardiovascular changes in the aged, Proc. May Clin, 67; Arousal and performance: experiments in verbal learning and a tentative theory, In: Human behavior and aging: recent advances in research and theory, Acad. Press, 68; Principles of community mental health in a rural setting: the Halifax County program, Community Ment. Health J. 68. Address: Box 3003, Duke Medical Center, Durham, N.C. 27706.

EISELEN, DR. ELIZABETH, b. Evanston, Ill, Aug. 22, 10. GEOGRAPHY. B.A, Northwestern, 31; M.A, Columbia, 33; Ph.D.(geog), Chicago, 43. Instr. GEOG, Union Col.(Ky), 34-37; WELLESLEY COL, 42-45, asst. prof, 45-48, assoc. prof, 48-60, prof, 60-65; vis. prof, Concordia Teachers Col.(Ill), 65-67; EXEC. SECY, NAT. COUN. GEOG. ED, 67- AAAS; Asn. Am. Geog; Soc. Woman Geog: Nat. Coun. Geog. Ed.(treas. 61-66). Economic geography of the Western Hemisphere; Africa; conservation. Publ: Co-auth, Africa. Ginn, 66. Address: Room 1532, 111 W. Washington St, Chicago, Ill. 60602.

EISELEY, DR. LOREN C(OREY), b. Lincoln, Nebr, Sept. 3, 07; m. 38. ANTHROPOLOGY, HISTORY OF SCIENCE. A.B, Nebraska, 33; M.A, Pennsylvania, 35, Harrison fel, 36-37, Ph.D.(anthrop), 37; hon. L.H.D. Western Reserve, 59, N.Y. Univ, 60, Washington Col, 63, Pace Col, 64, Northern Michigan, 66 & Kalamazoo Col, 67; hon. Litt.D, Nebraska, 60 & Brown, 64; hon. D.Sc, Franklin & Marshall Col, 60, Hahnemann Med. Col, 65 & British Columbia, 67; hon. LL.D, Alfred, 63. Asst. prof. sociol. & anthrop, Kansas, 37-42, assoc. prof, 42-44; prof. & head dept. Oberlin Col, 44-47; prof. anthrop. & chmn. dept. PENNSYLVANIA, 47-59, provost, 59-61, BENJAMIN FRANKLIN PROF. ANTHROP. & HIST. SCI, 61-, CURATOR EARLY MAN MUS, 48-, chmn. dept. hist. & philos. sci, 61-63. Fel, Center Adv. Study Behav. Sci, Calif, 61-62; Guggenheim fel, 63-64; Sloan vis. prof, Menninger Found, 66; Johnson vis. res. prof, Wisconsin, 67. Mem. cmt. interrelationships Pleistocene res, Nat. Res. Coun, 47-50, v.chmn, div. anthrop. & psychol, 47-50; mem, White House Task Force Preservation Natural Beauty, 64-65; Nat. Cmt. Sec. Ed, 65-; adv. bd, nat. parks, hist. sites, bldg. & monuments, U.S. Dept. Interior, 66-; World Acad. Arts & Sci. Mem. Morill paleont. expeds. Nebr, 31-33; Univ. Pennsylvania-Carnegie instnl. sci. exped. to southwest, 34; Smithsonian instnl. exped, North. Colo, 35. Phi Beta Kappa Sci. prize, 59; Burroughs medal & du Noüy award, 60; Thomas Edison award, 67. AAAS (v.pres-elect, 68, chmn-elect hist. & philos. of sci. sect, 68); fel. Anthrop. Asn.(v.pres, 47); Soc. Am. Archaeol; Asn. Phys. Anthrop; Philos. Soc; fel. Am. Acad. Arts & Sci; fel. N.Y. Acad. Sci. Human evolution: paleoarchaeology; fossil man; conservation; educational television. Publ: Immense journey; Darwin's century; firmament of time. Address: Dept. of Anthropology, University Museum, University of Pennsylvania, 33rd & Spruce Sts, Philadelphia, Pa. 19104.

EISEN, DR. NATHANIEL HERMAN, b. Brooklyn, N.Y, Nov. 12, 18; m. 47; c. 3. PSYCHOLOGY. Ph.D.(psychol), N.Y. Univ, 52. ASST. PROF. PSYCHOL, ILLINOIS, 52- Private practice, 55- Consult, Chanute Air Force Base; State Div. Voc. Rehab, Ill; pub. schs, Champaign, Ill. U.S.A, 42-45. AAAS; Psychol. Asn. Psychotherapy; psychodiagnostics; abnormal psychology. Publ: Influence of set on semantic generalization & Some effects of early sensory deprivation on later behavior; the quondam hard-of-hearing child, J. Abnorm. & Soc. Psychol. Address: 501 S. Sixth St, Champaign, Ill. 61820.

EISENBERG, DR. JOHN F(REDERICK), Vert. Zool, Animal Behav, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

EISENBERG, DR. LEON, Psychiat. see 11th ed, Phys. & Biol. Vols. & Suppl. II.

EISENBERG, DR. PHILIP, b. New York, N.Y, Oct. 2, 12; m. 50; c. 2. PSYCHOLOGY. B.A, City Col. New York, 34; M.A, Columbia, 35, Ph.D.(psychol), 37. Instr. psychol, Brooklyn Col, 38-42; occup. analyst, War Manpower Cmn, 42-43; res. psychologist, Columbia Broadcasting Syst, 43-55; PRES, MOTIVATION ANALYSIS, INC, 55- Fel. Psychol. Asn. Motivation research for business and industry; social psychology; psychology of personality. Publ: Why we act as we do. Address: 215 Hollywood Ave, West End, N.J. 07740.

EISENBERG, PROF. RALPH, b. Newark, N.J, May 17, 30; m. 52; c. 2. POLITICAL SCIENCE. A.B, Illinois, 52, fel. & A.M, 53; fel. & M.A, Princeton, 57, Ph.D.(polit), 61. Asst, State Legis. Servs. Cmn, N.J, 57-58; res. assoc, Gov. Cmn. to Study Insts. & Agencies, 58; asst. prof. polit. sci, South Carolina, 58-60; VIRGINIA, 60-65, ASSOC. PROF. GOVT. & FOR. AFFAIRS & ASST. DIR, INST. GOVT, 65- Mem. staff, State Cmn. on Redistricting, Va, 61. U.S.A.F, 53-55, 1st Lt. Polit. Sci. Asn. State and local government, particularly state legislatures, their processes, apportionment and redistricting; conflicts of interest among public officers and employees; Virginia elections, politics and political parties. Publ: Contrib, Cases in State and local government; co-auth, State legislative redistricting, Pub. Admin. Serv, 62; contrib, Cases in American national government and politics, Prentice-Hall, 65. Address: Institute of Government, 207 Minor Hall, University of Virginia, Charlottesville, Va. 22903.

EISENBERG, DR. TERRY, b. Cleveland, Ohio, Dec. 6, 38; m. 61; c. 1. PSYCHOLOGY. B.A, Ohio, 60; M.A, Toledo, 61; NASA fel, Maryland, 63-64, Ph.D.(indust. psychol), 65. Asst, Univ. Toledo, 60-61; Univ. Maryland, 61-63; assoc. res. scientist, Am. Insts. Res, 64-66; dir. psychol. serv, defense & space center, Westinghouse Elec. Corp, 66-67; RES. SCIENTIST, AM. INSTS. RES, 67- Instr, Carnegie Inst. Tech, 65-66; Maryland, 66- Consult, Patuxent Inst, Md, 62-64. Psychol. Asn; Mgt. Asn; Psychomet. Soc. Personnel selection and promotion; performance appraisal; manpower planning; motivation and morale; training; research and service activities in the law enforcement area. Publ: Are doctoral comprehensive examinations necessary? Am. Psychologist, 65; co-auth, High school science climate, Sci. Teacher, 66; auth, The effects of trouble shooting technique, experience and aptitude on a fault isolation task, Westinghouse Elec. Corp, 67. Address: American Institutes for Research, 8555 16th St, Silver Spring, Md. 20910.

EISENBERG, DR. WALTER L, b. New York, N.Y, Oct. 11, 20; m. 46; c. 2. ECONOMICS. B.S, City Col. 41; M.A, Columbia, 46, Ph.D, 59; fel, N.Y. Univ, 46. Exec. secy, trucking indust. panel, War Labor Bd, 43-46; instr. econ, Brooklyn Col, 46-47; regional assoc. dir, Wage Stabilization Bd, 51-53; dir. res. & statist. bur, Int. Brotherhood Teamsters, N.Y, 53-57; assoc. prof. grad. prog, City Col. New York, 57-62; PROF. ECON, HUNTER COL, 62- Lectr, Hunter Col, 48-62; Columbia, 49-61. Econ. consult, Walter L. Eisenberg Assocs, 57-62. Exec. dir, Cmt. for Safe Milk & Ice Cream Prods, 59-62; dir. res, Labor-Mgr. Hosp. Trust Fund, 62-; dir. planning, Navy Yard Rehab. Proj, 66-67. Mem, Mayor's Labor Res. Adv. Cmt, New York, 54-59; Mayor's Joint Union & Mgt. Cmt. Pension Revision, 61-63; bd. dir, Young Adult Inst. & Workshop, 66-; pub. mem, wage & hour review cmn, U.S. Govt, 67; v.chmn. bd. dir, Group Health Ins, Inc, 67- Sig.C, U.S.A, 43. Econ. Asn; Economet. Soc; Indust. Rel. Res. Asn; Statist. Asn. Labor problems; business cycles; urban economics; collective bargaining; manpower management; health insurance; pension planning; arbitration. Publ: Government policy in sitdown strikes; Approach to labor problems created by automation. Address: 939 E. 24th St, Brooklyn, N.Y. 11210.

EISENMENGER, DR. R(OBERT) W(ALTZ), b. New York, N.Y, June 30, 26; m. 52; c. 3. ECONOMICS. B.A, Amherst Col, 49; M.F, Yale, 51; fel, Harvard, 54-55, Ph.D.(econ), 64; M.P.A, 55, Littauer fel, 59-60. Forestry aid, bur. land mgt, U.S. Dept. Interior, 51, forest economist, 52-53, forester, 53-54; resource economist, FED. RESERVE BANK BOSTON, 55-59, indust. economist, 59-61, DIR. RES, 61-, V.PRES, 64- U.S.N.R, 44-46. Soc. Am. Foresters; Econ. Asn; Regional Sci. Asn. Land use planning; fuel and energy use; cyclical impact of federal monetary planning and grant-in-aid programs on state and local government expenditures. Publ: The dynamics of growth in New England's economy 1870-1964, Wesleyan, 67; Fuel and energy use in the 1960's. Address: Federal Reserve Bank of Boston, 30 Pearl St, Boston, Mass. 02106.

EISENPREIS, ALFRED, b. Vienna, Austria, June 16, 24; nat; m. 56; c. 1. SOCIOLOGY, ECONOMICS. A.B, Scranton, 43; New Sch. Soc. Res, 58-62. Exec, Pomeroy's, Inc, 43-55, asst. managing dir. & v.chmn. exec. cmt, 55-57; asst. group mgr, ALLIED STORES CORP, 57-58, dir. res, 58-63, V.PRES, 63- Consult, Bus. & Defense Serv. Admin, U.S. Dept. Commerce, 65-; Off. Emergency Planning, Exec. Off. President, 66- Dir. gov. cmt. dept. store statist, Fed. Reserve Bd, 59-65; chmn, Retail Res. Inst, N.Y, 62-67; mem, Nat. Mkt. Adv. & Exec. Cmt, 66-; census adv. cmt, Am. Statist. Asn, dept. urban transportation res, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun. chmn. tech. adv. cmt, center econ. proj, Nat. Planning Asn, 67- Sociol. Asn; Econ. Asn; Statist. Asn; Mkt. Asn; Mgt. Asn; Soc. Planning Off. Consumer economics, especially related to consumer buying behavior and fashion directed activity. Publ: Beispiele der Zusammenarbeit von Theorie und Praxis in einem Handels unternehmen, In: Wissenschaft und Handel, Haupt, Bern, 67; The years ahead, In: Marketing through retailers, Am. Mkt. Asn, 67. Address: Allied Stores Corp, 401 Fifth Ave, New York, N.Y. 10016.

EISENSON, DR. JON, Speech Pathol, Audiol, see 11th ed, Phys. & Biol. Vols.

EISENSTADT, SAMUEL, b. New York, N.Y, June 21, 22; m. 47; c. 2. STATISTICS, ECONOMICS. B.B.A, City Col. New York, 43. CHIEF STATISTICIAN, VALUE LINE INVESTMENT SURV, V.PRES. & DIR, THEORET. RES. CORP, 46- U.S.A, 43-46. Econ. Asn; Statist. Asn; Economet. Soc. Statistical techniques applied to securities analysis; statistical methods of forecasting stock prices; econometrics. Publ: A mathematical formulation of the behavior of stocks in the postwar period, In: Frontiers of investment analysis, 65. Address: 253-39 61st Ave, Little Neck, N.Y. 11362.

EISERER, PROF. PAUL E(MMANUEL), b. Hastings, Nebr, July 5, 12; m. 42; c. 2. PSYCHOLOGY. Ph.B, Northwestern, 39, M.A, 41; Ph.D.(psychol), Chicago, 48. Asst. prof. ed. & psychol, Oregon, 48-50; PROF. PSYCHOL, TEACHERS COL, COLUMBIA, 50- Consult, Vet. Admin, 49- U.S.A, 42-46. Psychol. Asn. Psychotherapy; mental hygiene; personality theory. Publ: The school psychologist, Center Appl. Res. Ed, 63; Motion pictures as projective stimuli, Genetics Psychol. Monogr; How youth learn to meet their needs, Nat. Soc. Study Ed. Yearbook. Address: Dept. of Psychology, Teachers College, Columbia University, New York, N.Y. 10027.

EISGRUBER, PROF. L(UDWIG) M(ARIA), b. Mallersdorf, Germany, Dec. 12, 31; m. 60; c. 1. AGRICULTURAL ECONOMICS. Dipl, Tech. Hochsch. Munchen, Germany, 55; M.S, Purdue, 57, Ph.D, 59. Asst. prod. econ, PURDUE, 56-59, asst. prof. PROD. ECON, 59-62, assoc. prof, 62-65, PROF, 65- Vis. prof, Hohenheim Agr. Univ, 66-67. Agr. Econ. Asn; Int. Asn. Agr. Econ. Decision making models and management strategies; application of computer science to the solution of problems. Publ: Co-auth, Management games for teaching and research, Ed. Methods, 66 and Betriebliche Entscheidungen mittels Simulation, Parey, Germany, 67. Address: Dept. of Agricultural Economics, Krannert Bldg, Purdue University, Lafayette, Ind. 47907.

EISNER, PROF. ROBERT, b. New York, N.Y, Jan. 17, 22; m. 46; c. 2. ECONOMICS. B.S.S, City Col. New York, 40; M.A, Columbia, 42; Paris, 45-46; Ph.D.(econ), Hopkins, 51. From instr. to asst. prof. ECON, Illinois, 50-52; asst. prof, NORTHWESTERN, 52-54, assoc. prof, 54-60, PROF, 60-, chmn. dept, 64-67. Guggenheim fel, 60. Chmn. exec. cmt, Conf. Res. Income & Wealth, 67-68. U.S.A, 42-46. Econ. Asn; Economet. Soc. Economics of investment function. Publ: On growth models and the neo-classical resurgence, Econ. J; Distributed lag investment function, Econometrica; A permanent income theory for investment: some empirical explorations, Am. Econ. Rev, 6/67. Address: Dept. of Economics, Northwestern University, Evanston, Ill. 60201.

EISTER, PROF. ALLAN W(ARDELL), b. Upper Sandusky, Ohio, Feb. 10, 15. SOCIOLOGY. A.B, DePauw, 36, Beveridge traveling fel, 36-38; A.M, American Univ, 37; Ph.D, Wisconsin, 45. Instr. SOCIOL, Hood Col, 44-45, asst. prof, 45-46; Southern Methodist, 46-50, assoc. prof, 50-53; WELLESLEY COL, 53-62, PROF, 62- Ford fel, 52-53; Fulbright lectr, Univ. Karachi, Pakistan & Am. Philos. Soc. res. grant, 59-60; Soc. Sci. Res. Coun. res. grant, 60; vis. scholar, surv. res. center, California, Berkeley, 66; vis. fel, All Souls College, Oxford, 67. Fel. Sociol. Asn; Acad. Polit. & Soc. Sci. Sociology of religion. Publ: Drawing-room conversion: a sociological study of the Oxford group movement. Address: Box 27, Wellesley College, Wellesley, Mass. 02181.

EITEMAN, DR. DAVID K(URT), b. Columbus, Ohio, Jan. 31, 30; m. 56; c. 1. FINANCE. B.B.A, Michigan, 52; M.A, California, 56; Ph.D, Northwestern, 59. Res. asst, bur. bus. & econ. res, California, 54-55; res. assoc, sch. bus. admin, Northwestern, 56, lectr. FINANCE, 56-59; asst. prof, GRAD. SCH. BUS. ADMIN, CALIFORNIA, LOS ANGELES, 59-65, ASSOC. PROF, 65- Resident res. prof. & lectr, Inst. Develop. Execs. Argentina, Buenos Aires & lectr, Inst. Develop. Guid. Bus, Montevideo, Uruguay, 66-67. U.S.A, 52-54, 1st Lt. Finance Asn. Financing of Argentine business corporations from 1955 through 1966. Publ: Co-auth, The stock market, McGraw, 4th ed. 66; auth, Stock exchanges of Latin America, Univ. Mich, 67; The S.E.C. special study and the exchange markets, J. Finance, 66. Address: Dept. of Finance, Graduate School of Business, University of California, Los Angeles. Calif. 90024.

EITEMAN, PROF. WILFORD J(OHN), b. Rock Island, Ill, Feb. 13, 02; m. 27; c. 2. ECONOMICS. Mus.B, Chicago Musical Col, 22; A.B, Ohio Wesleyan, 26, A.M, 28; Ph.D, Ohio State, 31. Acct, Battelle & Battelle, 28-29; instr. econ, Ohio State, 29-31; prof, Albion Col, 31-37; asst. prof, Duke, 37-46; assoc. prof. FINANCE, Rutgers, 46-47; PROF, MICHIGAN, 47- Soc. Sci. Res. Coun. fel, 32-33; instr, U.S. Army Univ.(France), 45-46; vis. prof, Ceylon, 54-55; Hawaii, 65; Florida, 68. Financial consult, Orgn. European Econ. Coop, 59-60. Sr. staff mem, Twentieth Century Fund Stock Mkt. Invest, 33-34; price exec, Off. Price Admin, Alaska, 42-43. Econ. Asn; Finance Asn. Finance. Publ: Graphic budgets; co-auth, World leading stock exchanges, Univ. Michigan, 65 & The stock market, McGraw, 66. Address: 226 Sumac Lane, Ann Arbor, Mich. 48105.

EITZEN, PROF. DAVID D, b. Mountain Lake, Minn, Dec. 1, 03; m. 30; c. 2. CLINICAL PSYCHOLOGY. B.A, Bethel Col.(Kans), 30; M.Th, Southern California, 37, Ph.D, 40. PROF. PSYCHOL. & RELIG, Southern California, 38-57; SCH. THEOL. CLAREMONT, 57- Glide Found. lectr, San Francisco, 61; Earl Warren lectr, California, Santa Barbara, 63. Dipl. Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Asn. Psychother. Dynamics of personality integrity and its pathology; role of values in psychotherapy; how psychodynamics and religious faith influence each other. Publ: Value-gradient; Movement in group therapy with husband-wife couples; Values in the psychotherapeutic process. Address: Indian Hill Professional Bldg, 334 N. Indian Hill Blvd, Claremont, Calif. 91711.

EJRUP, DR. BORJE E. V, Med, Cardiol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

EKBLAW, PROF. SIDNEY E(VERETTE), b. Rantoul, Ill, Mar. 24, 03. GEOGRAPHY. A.B, Illinois, 29; M.S, 30; Ph.D, Clark, 34. PROF. GEOG, MISSOURI, KANSAS CITY, 34- Summers, vis. prof, Northwestern, 47, 49, 57. Asn. Am. Geog; Nat. Coun. Geog. Ed.(2nd v.pres, 61, 1st v.pres, 62, pres, 63); Meteorol. Soc; Asn. Geol. Teachers; Geophys. Union; Acad. Polit. & Soc. Sci. Geographic backgrounds of Babylonian culture; grassland economy; distribution, use and conservation of our natural resources. Publ: Influence of geography on our economic life; co-auth, Economic and social geography, McGraw, 58; auth, Exercises in earth science, McCutchan Co, 7/67. Address: Dept. of Geography, University of Missouri at Kansas City, 5100 Rockhill Rd, Kansas City, Mo. 64110.

EKDAHL, DR. ADOLPH G(USTAVUS), b. Chicago, Ill, Nov. 21, 92; m. 13; c. 1. PSYCHOLOGY. D.M.D, Tufts Col, 12; A.B, Clark, 19, fel, 20, A.M, 20; Ph.D.(psychol), Ohio State, 25. Asst. prof. psychol, Syracuse, 20-23; instr, Ohio State, 23-25; asst. prof, New Hampshire, 26-28, assoc. prof. & head dept, 28-44; chief adv. & guid, Vet. Admin, Maine, 44-46, supvr. br. off, Boston, Mass, 46-49, personal adjust. counsr, regional off, Detroit, Mich, 49-52, couns. psychologist, center, Togus, Maine, 53-58, hosp, Bedford, Mass, 58-62; Psychol. Serv, Framingham, 66-68; PRIVATE PRACTICE, 68- Clin. psychologist, Manchester State Indust. Sch, 32-34; lectr, Boston, 46-47. Consult. & trustee, Golden Rule Farm Prob. Boys, 34-42. Dipl. counseling & guid, Am. Bd. Exam. Prfnl. Psychol. Psychologist, Adj. Gen. Off. AAAS; fel. Psychol. Asn; Personnel & Guid. Asn; Dent. Asn. Abnormal

psychology and mental hygiene; pitch of tonal masses and brief tones; rehabilitation of severely disabled. Address: 9730 Van Dyke Rd, Dallas, Tex. 75218.

EKDAHL, DR. N(AOMI) M(ARGUERITE) G(OLDTHWAITE), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

EKE, ELMO W(ILLIARD), b. Blunt, S.Dak, Mar. 30, 10; m. 38; c. 1. AGRICULTURAL ECONOMICS, STATISTICS. B.Ed, Milwaukee State Col, 35; Wisconsin, 35-38. Apprentice in-serv. trainee, State Dept. Agr, Wis, 38-41; statistician, U.S. Dept. Agr, Wis. & Ohio, 41-43, economist, bur. agr. econ, Wis, 43-46; statistician, VET. ADMIN, Ill, Wis. & D.C, 46-52, asst. controller reports & statist, dept. insurance, 52-63, MGT. ANALYST, 63- U.S.A, 43-45. Statist. Asn; Mgt. Asn. Statistics as they relate to management; design automated hospital information systems. Address: Veterans Administration, Washington, D.C. 20420.

EKE, DR. PAUL A(XEL), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

EKEBLAD, DEAN FREDERICK A(LFRED), b. Providence, R.I, Sept. 6, 17; m. 42; c. 3. STATISTICS. A.B, Brown, 38, A.M, 41; Ph.D, Northwestern, 47. Statist. clerk, L. Bamberger & Co, 38-39; asst, Brown, 39-41; instr, Northwestern, 41-47, assoc. prof. bus. statist, 49-61, prof. & chmn. dept, 61-66; asst. prof, Connecticut, 47-49; PROF. STATIST. & DEAN COL. BUS. ADMIN, BRIDGEPORT, 66- Econ. Asn; Statist. Asn; Economet. Soc; Inst. Mgt. Sci. Business and economic statistics. Publ: The statistical method in business, Wiley, 62; Errors in estimates of retail sales, J. Mkt; Criteria in factor analysis, J. Advert. Res, 9/67. Address: College of Business Administration, University of Bridgeport, Bridgeport, Conn. 06602.

EKEY, DR. DAVID C(LIFTON), Indust. Eng, see 11th ed, Phys. & Biol. Vols.

EKHOLM, DR. GORDON F(REDERICK), b. St. Paul, Minn, Nov. 25, 09; m. 37; c. 2. ANTHROPOLOGY. B.A, Minnesota, 33; Ph.D.(anthrop), Harvard, 41. Spec. field asst, Am. Mus. Natural Hist, 37-41; field supvr, Inst. Andean Res, 41-42; asst. curator ANTHROP, AM. MUS. NAT. HIST, 42-47, assoc. curator, 47-57, CURATOR, 57-; LECTR. ANTHROP, COLUMBIA, 45- Fel. Anthrop. Asn; Soc. Am. Archaeol; Ethnol. Soc; Mex. Soc. Anthrop. Archaeology of Mexico and Central America, especially as regards stratigraphy and chronology; ethnography. Publ: Excavations at Guasave Sinaloa, Mexico; Excavations at Tampico and Panuco in the Huasteca. Address: American Museum of Natural History, 77th St. & Central Park W, New York, N.Y. 10024.

EKLAND, DR. LEONARD M(ARTIN), b. Clinton, Iowa, Nov. 9, 99; wid; c. 2. FINANCE. B.S, Iowa, 24, M.A, 27, Ph.D.(econ, finance), 32. Prof. commerce, St. Ambrose Col, 24-28; asst. prof. finance, De Paul, 28-30; prof, Detroit, 32-46, 48-51; INVESTMENT MGR, 51- Econ. Asn. Investments; psychology. Address: 18260 Northlawn Ave, Detroit, Mich. 48221.

EKMAN, DR. ERNST, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EKMAN, DR. PAUL, b. Washington, D.C, Feb. 15, 34. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 54; M.A, Adelphi Col, 55, Ph.D, 58; fel, Nat. Inst. Ment. Health, 55; fel, Langley Porter Inst, 57-58. Staff psychologist, South Oaks Hosp, 55-56; consult. psychologist, Little Red Sch. House, New York, 56-57; res. assoc. PSYCHOL, Stanford, 60-61; from asst. prof. to assoc. prof, San Francisco State Col, 61-65; ASSOC. PROF, SCH. MED, CALIFORNIA, SAN FRANCISCO, 66-; RES. SPECIALIST, LANGLEY PORTER NEUROPSYCHIAT. INST, 66- Nat. Inst. Ment. Health res. fel, 60, career develop. award, 66-71; res. fel, sch. med, California, San Francisco, 61-; res. assoc. polit. sci, Stanford, 61-64. Med.Serv.C, 58-60, 1st Lt. AAAS; fel. Psychol. Asn; Fedn. Am. Sci; Interam. Soc. Psychol. Nonverbal behavior, including body movement and facial expression; psychological aspect of problems involved in international tension. Publ: Auth, VIDR and SCAN; hardware and methods for the analysis of visual records, Univ. Pennsylvania, 68; co-auth, Nonverbal behavior and psychotherapy, Am. Psychol. Asn, 68; auth, Head and body cues in the judgement of emotion, Perceptual & Motor Skills, 67. Address: 1405 Fourth Ave, San Francisco, Calif. 94122.

EKSTEIN, DR. RUDOLF, b. Vienna, Austria, Feb. 9, 12; nat; m. 42; c. 2. PSYCHOLOGY. Ph.D, Vienna, 37; M.S, Boston, 41. Psychoanalyst, Menninger Found, Kans, 47-57; coordinator training & res, Reiss-Davis Clin. Child Guid, 57-68, DIR. CHILDHOOD PSYCHOSIS PROJ, REISS-DAVIS CHILD STUDY CENTER, 68- Lectr, City Col. New York, 43-47; N.Y. Univ, 45-47; training analyst, Topeka Inst. Psychoanal, 51-57; lectr, Los Angeles Inst. Psychoanal, 60- Psychol. Asn; Orthopsychiat. Asn. Psychoanalysis; methods of professional training; ego psychology and psychotherapy of children suffering from borderline and schizophrenic conditions. Publ: Teaching and learning of psychotherapy; Children of time and space, of action and impulse, Appleton, 66. Address: Reiss-Davis Child Study Center, 9760 W. Pico, Los Angeles, Calif. 90035.

EKVALL, ROBERT BRAINERD, b. Minhsien, China, Feb. 18, 98; m. 20, 47, 65; c. 2. ANTHROPOLOGY. B.A, Wheaton Col.(Ill), 20; Nyack Missionary Col, 21-22; Chicago, 37-38. Missionary, Christian & Missionary Alliance, China & Tibet, 23-43; consult. Tibetan matters, Cmt. Free Asia, 51-52; res. fel. inner Asia colloquium, WASHINGTON (SEATTLE), 58-60, res. instr. Tibetology, 60-64, CURATOR ASIAN ETHNOL, THOMAS BURKE MEM. MUS, 65- Wenner-Gren Found. res. grant, 64-65; Nat. Sci. found. res. grants, 65-69. U.S.A, 44-51 & 53-58, Lt. Col. Am. Anthrop. Asn; Asn. Asian Studies; fel. Royal Geog. Soc; Tibet Soc. Chinese language; rise and development of Chinese communism; Chinese international relations, particularly with the United States; language, culture and religion of Tibet; nomadism, particularly nomadic pastoralists of Tibet. Publ: Cultural relations on the Kansu-Tibetan border, 39 & Religious observances in Tibet, 63, Univ. Chicago; Fields on-the-hoof: nexus of nomadic pastoralism in Tibet, Holt, 68. Address: Burke Memorial Museum, University of Washington, Seattle, Wash. 98105.

ELASHOFF, DR. ROBERT MYLES, b. Boston, Mass, May 12, 30. STATISTICS. B.S, Suffolk, 52; A.M, Boston, 55; fel, Harvard, 62-63, Ph.D.(statist), 63. Teacher biostatist, sch. pub. health, Harvard, 56-58, asst. statist, 58-61; statistician, Mass. Ment. Health Center, 61-63; lectr. statist, California, Berkeley, 63-64, asst. prof, 64-65, LECTR. EPIDEMIOL, CALIFORNIA, SAN FRANCISCO, 65- Consult, Age Center New Eng, 59-61. Statist. Asn; Inst. Math. Statist. Discriminatory analysis; pattern recognition and Bayesian analysis; statistical analysis of random vectors with discrete and continuous components. Publ: Co-auth, Missing observations in multivariate statistics, I, 9/66, Missing observations in multivariate statistics II, 3/67 & An investigation into the small sample performance of the Hodges-Lehmann Test, 3/68, J. Am. Statist. Asn. Address: Computer Center, University of California School of Medicine, San Franicsco, Calif. 94122.

ELAZAR, PROF. DANIEL J(UDAH), b. Minneapolis, Minn, Aug. 25, 34; m. 61. POLITICAL SCIENCE. Univ. fel, Chicago, 54-59, Ford Found. fel, 57-59, M.A, 57, Ph.D, 59. Lectr. POLIT. SCI, Chicago, 58-59; asst. prof, inst. govt. & pub. affairs, Illinois, 59-63; vis. asst. prof, Minnesota, 63-64; assoc. prof, TEMPLE, 64-67, PROF. & DIR. CENTER STUDY FEDERALISM, 67- Am. Coun. Learned Socs. res. grant & Henry E. Huntington library fel, 63-64; John Simon Guggenheim fel, 64-65; summer assoc, Center Adv. Study Behav. Sci, 59. Consult, Adv. Cmn. Intergovt. Rels, 67- AAAS; Polit. Sci. Asn.(White award, 60); Soc. Pub. Admin. American federalism and intergovernmental relations; state and local politics; metropolitanism and metropolitan area politics; American political history; comparative federalism; Jewish political studies. Publ: American partnership: a study of federal-state cooperation in the nineteenth century; American federalism: a view from the states, Crowell, 66; ed, The American system: a new view of government in the United States, Rand McNally, 66. Address: Dept. of Political Science, Temple University, Philadelphia, Pa. 19122.

ELBERT, DR. SHIRLEY, Psychol, see 10th ed, Soc. & Behav. Vols.

ELBING, PROF. ALVAR OLIVER, JR, b. Minneapolis, Minn, Sept. 24, 28; m. 50; c. 2. BUSINESS ADMINISTRATION. B.A, Minnesota, 50; B.S, California, 56; M.S, Sacramento State Col, 59; Ford Found. fel, Washington (Seattle), 61, D.B.A, 62. Sales rep, Proctor & Gamble Distributing Co, 54-55; personnel analyst, State Personnel Bd, Calif, 56-58; lectr. bus. admin, Sacramento State Col, 58-59; assoc, Washington (Seattle), 59-62; asst. prof. Amos Tuck Sch. Bus. Admin, Dartmouth Col, 62-66, assoc. prof, 66-67; PROF. MGT, STATE UNIV. N.Y. ALBANY, 67- Participant, Meet Modern Sweden, Stockholm, 66. U.S.A.F, 51-53, Res, 53-62. AAAS; Econ. Asn. The social consequences of economic activity; influence of an individual's psychological processes on his decision making processes in large organizations. Publ: Co-auth, The value issue of business, McGraw, 67; auth, Executive incomes, sales and profits, Am. Econ. Rev, 9/62; The influence of prior attitudes on role playing results, Personnel Psychol, fall 67. Address: Dept. of Management, School of Business, State University of New York at Albany, Albany, N.Y. 12203.

ELBOT, DR. HUGH G(EORGE), b. Plzen, Czech, Aug. 20, 11; nat; m; c. 2. POLITICAL SCIENCE, COMPARATIVE GOVERNMENT. Dr. Law & Polit. Sci, Charles Univ, Prague, 34; Carnegie Inst, Paris, 45; M.Comp.L, George Washington, 56. Jr. attorney, Plzen & Prague, Czech, 34-39; attorney adv. mil. govt, U.S. War Dept, Germany, 46-49; U.S. Dept. State legis. specialist, Off. U.S. High Cmnr, Germany, 49-51, dir. int. tracing serv, 51-54; res. assoc. polit. sci. human rels. area files, Yale, 54-55; sr. res. assoc. polit. sci. & assoc. prof. human rels area files, American Univ, 55-56; consult, off. sci. res, behav. sci. div, U.S. Dept. Air Force, 57-58; POLIT. PROG. ANALYST, RADIO FREE EUROPE, 58- Lectr, eve. sch, Maryland, 58- U.S.A, 41-46, Res, 46-67, Lt. Col. Polit. Sci. Asn. Comparative and international law; structure of government and political dynamics; public information propaganda. Publ: Ferment in the red intelligentsia, Univ. Maryland Abroad, 64; Background studies on Iran, Czechoslovakia, Federal Republic of Germany; Specter of polycentrism, Officer, 8/63. Address: 16a Tizianstrasse, Munich 19, Germany.

ELCHIBEGOFF, DR. IVAN M(AMIKON), b. Zakataly, Russia, May 17, 99; nat; m. 43. ECONOMICS. B.B.A, City Col. New York, 34; M.S.S, New Sch. Soc. Res, 38, D.S.S.(econ), 42. Economist, Bd. Econ. Warfare, D.C, 41-43; For. Econ. Admin, 44-45; int. resources div, U.S. Dept. State, 45-47; CONSULT. ECONOMIST, 48- Lectr, American Univ, 47. Consult. & res, Coun. Econ. & Indust. Res, Inc, 54-55. U.S.A, 42-43. Econ. Asn; Soc. Am. Foresters. International forest economics, resources and trade; foreign agriculture and land utilization; developmental economics. Publ: USSR international timber trade, J. Forestry, 10/61; Soviet timber exports traced, World Wood, 10/67; Georgii Fedorovich Morozov: father of the Russian forestry science, privately pub, 10/67. Address: 4206 Kaywood Dr, Mt. Rainier, Md. 20822.

ELDER, DR. J(AMES) H(ARLAN), b. Marshall, Ind, Sept. 24, 02; m. 26; c. 3. PSYCHOLOGY. A.B, Colorado, 30; Ph.D.(psychol), Yale, 33. Asst. psychol, Colorado, 27-30; psychobiol, Yale, 30-33, res. asst, 33-39; lectr. psychol, Wisconsin, 39-40; instr, Virginia, 40-42; asst. prof, La. State, 42-43, assoc. prof, 45-46; prof, Tennessee, 46-49; prof. & chmn. dept, Washington State, 49-68; RETIRED. Psychologist, Off. Chief Sig. Officer, War Dept, 43-45; Hqs, U.S. Army Air Force, 45. Fel. Psychol. Asn. Sex behavior of primates; psychophysiological problems of sleep; adolescence. Address: 1911 Bryant, Pullman, Wash. 99163.

ELDER, DR. JOSEPH WALTER, b. Kermanshah, Iran, July 25, 30; m. 51; c. 3. SOCIOLOGY. B.A, Oberlin Col, 51, M.A, 54; summer, Pennsylvania, 54; Ford Found. fel, Harvard, 54-59, Ph.D, 59. Teacher, Am. Col. High Sch, India, 51-53; proj. dir, Int. Res. Assocs, 59; instr. sociol. & anthrop, Oberlin Col, 59-61; asst. prof. SOCIOL. & INDIAN STUDIES, WISCONSIN, 61-65, ASSOC. PROF, 65-, COORDINATOR. COL. YEAR IN INDIA PROG, 62- Consult, for. area training fel. prog, Ford Found, 60-61; lectr, India Peace Corps Training Prog, 63-; fel, center adv. study, Wesleyan, 66-67. Mem. adv. coun, Danforth Assoc. Prog, 67-; exec. cmt, Spec. Cmt. Liberal Studies, 67- Harbison award, Danforth Found, 65. Sociol. Asn. Social structure of India; sociological theory; sociology of development. Publ: Ed, The civilization of India syllabus, 65, Articles and excerpts to accompany the civilization of India syllabus, 66 and Chapters in Indian civilization, 67, Dept. Indian

Studies, Univ. Wisconsin. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

ELDER, PROF. ROBERT E(LLSWORTH), b. Monticello, Ind, July 15, 15; m. 38; c. 3. INTERNATIONAL RELATIONS. A.B, Indiana State, 36; scholar, Chicago, 36-37, 39-40, M.A, 37, Ph.D.(int. rels), 47. Teacher, pub. schs, Ind, 37-39; assoc. prof. soc. sci, Cent. Norm. Col, 40-42, asst. to pres, 41-42; dir. pub. DePauw, 42-44; asst. prof. POLIT. SCI, COLGATE, 46-52, assoc. prof, 52-58, PROF, 58-, DIR, COLGATE RES. COUN, 67-, Colgate-Wash. Study Group, 52-63, Sr. Core, Am. in World Community, 62-67. Ford Found. grants, 55-56, 68-69; mem. assoc. staff, Brookings Inst, 59, 60-61. Consult, Cmt. For. Affairs Personnel, 62-63. U.S.N.R, 44-46, Lt.(jg). Polit. Sci. Asn. Formulation and administration of American foreign policy; causes of international tension; methods of teaching international relations. Publ: Policy machine; Overseas representation and services for federal domestic agencies; Information Machine. Address: Dept. of Political Science, Colgate University, Hamilton, N.Y. 13346.

ELDER, S(AMUEL) THOMAS, Exp. & Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl II.

ELDERSVELD, PROF. SAMUEL J(AMES), b. Kalamazoo, Mich, Mar. 29, 17; m. 50; c. 2. POLITICAL SCIENCE. A.B, Calvin Col, 37; A.M, Michigan, 39, Ph.D, 46. Instr. POLIT. SCI, MICHIGAN, 46-48, asst. prof, 48-52, assoc. prof, 52-57, PROF, 57-, CHMN. DEPT, 66- Ford Found. grant-in-aid, 52; Fulbright scholar, Netherlands, 54-55; mem. Center Adv. Study Behav. Sci, 59-60; Rockefeller grant, Netherlands, 61. Mayor, Ann Arbor, 57-59. U.S.N.R, 42-46, Lt. Polit. Sci. Asn; Int. Polit. Sci. Asn. Political parties; public opinion; political behavior. Publ: Political behavior; a reader in theory and research; Political affiliation in metropolitan Detroit; Political parties: a behavioral analysis. Address: Dept. of Political Science, University of Michigan, Ann Arbor, Mich. 48104.

ELDON, DR. DONALD, b. London, Ont, Aug. 9, 26. ECONOMICS. B.A, Western Ontario, 48; Thayer scholar & Dafoe Found. fel, Harvard, A.M, 51; Ph.D.(econ), 52. Asst. economist, res. & develop. dept, Can. Nat. Rwys, 51-55; dir. res, Progressive Conserv. Party Can, 55-58; asst. prof, Western Ontario, 58-61; mem, Tariff Bd. Can, 61-63; Restrictive Trade Practices Cmn, Ottawa, 63-66; ASSOC. DEAN ARTS & SCI, TRENT, 66- Can. Econ. Asn; Am. Econ. Asn; Can. Agr. Econ. Soc; Royal Econ. Soc. Transportation; industrial organization; antitrust law. Publ: The public interest in the combines investigation act, Dept. Justice Ottawa, 65. Address: Dept. of Arts & Sciences, Trent University, Peterborough, Ont, Can.

ELDRED, DONALD M(ERRITT), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

ELDREDGE, PROF. H(ANFORD) WENTWORTH, b. New York, N.Y, Oct. 16, 09; m. 47; c. 2. SOCIOLOGY. A.B, Dartmouth Col, 31; Vienna, 33; Ph.D. (sociol), Yale, 35. Instr. SOCIOL, DARTMOUTH COL, 35-39; asst. prof, 39-49, PROF, 49-, CHMN. DEPT, 65-, chmn. dept. sociol. & anthrop, 53-57, int. rel. prog, 59-62, city planning urban studies prog, 59-65. Vis. lectr, Harvard, 63; vis. prof, California, Berkeley, 67. Consult, U.S. Dept. Defense, 48, 50. U.S.A.A.F, 42-45, Maj. Sociol. Asn; Inst. Planners. Urban sociology and city planning; sociology of revolution and cold war planning. Publ: Contrib, Studies in the science of society; auth, The second Revolution, Morrow, 64, Washington Square, 66; Ed, Taming megalopolis, Doubleday & Praeger, 67. Address: Dept. of Sociology, Dartmouth College, Hanover, N.H. 03755.

ELDRIDGE, DR. DOUGLAS H(ILTON), b. Lewistown, Mont, Apr. 12, 16; m. 40; c. 3. ECONOMICS, PUBLIC FINANCE. B.A, Washington (Seattle), 37, M.B.A, 41; Ph.D, Chicago, 49. Asst, State Tax Cmn, Wash, 39-41; fiscal economist, tax adv. staff, U.S. Treas. Dept, 49-51; econ. adv. to Senator R.E. Flanders, 51-53; fiscal economist, tax anal. staff, U.S. Treas. Dept, 53-56, chief, 56-61, assoc. dir. off. tax anal, 61-62; prof. pub. finance, Claremont Men's Col. & Claremont Grad. Sch, 62-65; EXEC. DIR, NAT. BUR. ECON. RES, 65- Consult, U.S. Treas. Dept, 62-; Calif. Senate Fact Finding Cmt. Revenue & Taxation, 63-65. Econ. Asn; Asn. Bus. Econ. Taxation. Publ: Tax incentives for mineral enterprise, J. Polit. Econ; Issues raised by proposal to grant cost or market option with LIFO, Nat. Tax J; Equity, administration and intergovernmental fiscal aspects, In: The role of direct and indirect taxes in the federal revenue system, Conf. Report of Nat. Bur. Econ. Res. & Brookings Inst, 64. Address: National Bureau of Economic Research, 261 Madison Ave, New York, N.Y. 10016.

ELDRIDGE, PROF. EBER, b. Ruthven, Iowa, June 23, 20; m. 45; c. 4. ECONOMICS. B.S, Iowa State, 42, Ph.D.(econ), 60; M.S, Mich. State, 57. PROF. ECON, IOWA STATE, 60- Consult, Am. Broadcasting Co, 60; Gov. Iowa, 67-68. U.S.N.R, 42-46, Res, 46-60, Lt. Agr. Econ. Asn; Econ. Asn. Development of rural economies, opportunities for employment and youth; human, economic and institutional problems of rural adjustment. Publ: Co-auth, Occupational plans of Iowa farm boys, 62, auth, Economic base study of NIAD, 64 & co-auth, Human resources development, 67, Iowa State Univ. Address: Dept. of Economics, 306 East Hall, Iowa State University, Ames, Iowa 50010.

ELDRIDGE, DR. HOPE T(ISDALE), b. Mobile, Ala, June 18, 04; m. 42. DEMOGRAPHY, SOCIOLOGY. B.A, Barnard Col, 25; M.A, N.Y. Univ, 35; Rosenwald fel, 39-40; Ph.D.(sociol), North Carolina, 42. Asst. prof. phys. ed, woman's col, North Carolina, 27-38, asst. sociol. & phys. ed, univ, 38-39; proj. technician, state staff, Works Progress Admin, N.C, 40-41; pop. analyst, U.S. Bur. Census, 42-47; pop. statistician, Food & Agr. Orgn, 47-50; ed, Demog. Yearbook of UN, 50-52; researcher & writer, Int. Union Sci. Study Pop, 52-53, 55-57; asst. prof. sociol, Tampa, 57-59; res. assoc, PENNSYLVANIA, 59-66, LECTR. & SR. RES. ASSOC. DEMOG, 66- Sociol. Asn; Pop. Asn; Int. Union Sci. Study Pop. Urbanization; migration. Publ: Population policies; The materials of demography, Pop. Asn. Am, 59; Population redistribution and economic growth United States, 1870-1950, Vol III, Am. Philos. Soc, 64. Address: 4630 Osage Ave, Philadelphia, Pa. 19143.

ELDRIDGE, DR. LAWRENCE, b. New York, N.Y, Jan. 15, 28; m. 55; c. 3. PSYCHOLOGY. A.B, N.Y. Univ, 47; A.M, Columbia, 48, Ph.D.(psychol), 54. Asst. psychol, Letchworth Village, 48-49; Psychiat. Inst, 49-50; psychologist, Westchester Div, N.Y. Hosp, 50-54; clin. psychologist, dept. psychiat, St. Vincent's Hosp, New York, N.Y, 55-57; private practice, 57- Sci. Adv, African Res. Found, 60- Consult, alcoholism & drug addiction clin, Knickerbocker Hosp, 54-55; med. dept, N.Y. Tel. Co, 54-57; Off. Econ. Opportunity, Wash, D.C, 65-66; Calhoun Sch, New York, 65-; psychother. of addicts, Exodus House Treatment Center, 67- AAAS; Psychol. Asn; Soc. Gen. Syst. Res. Personality evaluation; applications of psychologic and psychoanalytic principles to ameliorate problems between individuals and their milieu, especially between the executive and the management environment and between the addicted and the non-addicted world in which he must move. Publ: Measurement of anxiety and breathing rate change; contrib, Study of responses to visual stimuli varying in color and chiaroscuro, Manual Proj. Tech. Address: 17 W. 54th St, New York, N.Y. 10019.

ELDRIDGE, MARIE DELANEY, Statist, see Suppl. V to 11th ed, Phys. & Biol. Vols.

ELDRIDGE, PAUL, b. Washington, D.C, Dec. 17, 16; m. 61; c. 2. ECONOMICS, STATISTICS. A.B, Catholic Univ, 39. Meteorologist, U.S. Weather Bur, 44-51; statistician, Soc. Security Admin, 51-56, chief, mgt. statist. sect, bur. old age & survivors ins, 58-60; mathematical statistician, U.S. Off. Ed, 60-61; mathematical statistician, Internal Revenue Serv, D.C. 61-64; STATISTICIAN, CIVIL AERONAUT. BD, 64- Vis. lectr, Baltimore, 58-60. Statist. Asn; Pub. Health Asn. Sampling statistics and forecasting. Publ: Co-auth, Incidence of labor nobility, Indust. & Rel. Rev. Address: 3201 E. Thornapple St, Chevy Chase, Md. 20015.

ELDRIDGE, DR. WESLEY CLARK, b. Mt. Holly, N.J, Apr. 15, 36; m. 64. PSYCHOLOGY. B.A, Maryville Col.(Tenn), 58, B.S, 59; M.A, Ohio, 61; fel. & Ph.D.(psychol), Delaware, 65. Asst. PSYCHOL, Ohio, 61; asst. prof, Idaho State, 64-67; ASSOC. PROF. & HEAD DEPT, SIMPSON COL, 67- Cognitive functioning; cues of interpersonal perception. Publ: Co-auth, Machiavellian scores of volunteer student counselors and student government officers, Psychol. Reports, 12/63. Address: Dept. of Psychology, Simpson College, Indianola, Iowa 50125.

ELESH, DR. DAVID BERT, b. Chicago, Ill, Oct. 20, 40; m. 67. SOCIOLOGY. B.A, Reed Col, 62; Nat. Sci. Found. fel, Columbia, 62-64, Nat. Inst. Ment. Health fel, 64-67, Ph.D.(sociol), 68. ASST. PROF. SOCIOL, WISCONSIN, 67- Sociol. Asn. Methodology; sociology of education; urban sociology. Publ: Patterns of college selection, In: The admissions officer, Col. Bd, (in press): Concepts and issues in contextual analysis, In: The language of social research, Macmillan, (in press): The Manchester statistical society, In: The rise of empirical social research, Harper, (in press). Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

ELEY, DEAN LYNN W, b. Zearing, Iowa, Oct. 23, 25; m. 50; c. 3. POLITICAL SCIENCE. B.A, Harvard, 49; M.A, Iowa, 51, Ph.D.(polit. sci), 52. Budget reviewer & admin. analyst, off. budget & finance, U.S. Dept. Agr, 52-54, orgn. & methods exam. personnel div, agr. res. serv. & instr. pub. admin, grad. sch, 54-55; res. assoc, inst. pub. admin, Lansing Br. Off. Michigan, 55-56, supvr, 57-59, lectr. polit. sci, 57-59, assoc. prof. & assoc. dir. exten. serv. 59-64; ASSOC. PROF. POLIT. SCI. & DEAN CONTINUING ED, WASHINGTON (ST. LOUIS), 64- Ellis L. Phillips Found. internship acad. admin, California, Berkeley. 63-64. U.S.N, 44-46, Ens. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. Public administration; administrative law; American government. Publ: Co-auth, The 1959 summer institute in practical partisan politics: selected papers, Univ. Michigan Inst. Pub. Admin, 60; auth, The executive reorganization plan: a survey of state experience, Univ. California Inst. Govt. Studies, 67; The regionalization of business services in the agricultural research service, In: Governmental reorganizations: cases and commentary, Bobbs, 67. Address: Box 1064, Washington University, St. Louis, Mo. 63130.

ELGASS, DR. GEORGE A(LFRED), b. Choisyle-Roi, France, Jan. 12, 21; U.S. citizen; m. 43; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. B.B.A. & M.B.A, Michigan, 48, Ph.D.(bus. admin), 56. Clerk, Union Pac. R.R, 41-42; instr. mkt, Michigan, 48-56, asst. prof, 57-60, assoc. prof, 60-64; MGR. ECON. ANAL, CHRYSLER CORP, 64- Adv. to dir, inst. res. productivity. Waseda Univ, Tokyo, 57-59. U.S.A.F, 42-45, 1st Lt. Econ. Asn; Mkt. Asn; Statist. Asn. Marketing management; marketing behavior in relation to competition; antitrust policy. Publ: Co-auth, Energy and the Michigan economy: a forecast, Univ. Michigan, 67; The multi-line firm in relation to competition, In: Adaptive behavior in marketing, Am. Mkt. Asn, 57; co-auth, Wholesaling in Japan, In: Comparative marketing—wholesaling in fifteen countries, Irwin, 63. Address: Chrysler Corp. P.O. Box 1919, Detroit, Mich. 48231.

ELIAS, PROF. GEORGE S(ELEBE), b. Boston, Mass, Aug. 18, 26; m. 60; c. 2. COUNSELING & EDUCATIONAL PSYCHOLOGY. A.B, Suffolk, 49; M.A, Boston, 50, Ed.D.(counseling psychol), 58. Guid. counsr, pub. schs, Mass, 52-57; dir. pupil personnel serv, pub. schs, Conn, 57-59; dir. counseling center, Springfield Col, 59-61, assoc. prof. guid. & soc. serv, 62-64; supvr. rehab. counsr. training prog, inst. res. & training, Devereux Found, 64-66; PROF. PSYCHOL. & ED, ASSUMPTION COL, 66- Consult, U.S. Equal Employ. Opportunity Cmn, 66-; guid. study cmt, New Eng. Ed. Assessment Proj, 66-; U.S. Dept. Defense, 67-; U.S. Dept. Labor, 68- U.S.A, 44-46, S/Sgt. Personnel & Guid. Asn; Asn. Ment. Deficiency. The use of individual and group procedures in assisting individuals in acquiring greater self understanding with which to make decisions. Publ: Co-auth, Know yourself, McGraw, 66 & Guidelines on employment testing procedures, U.S. Equal Employ. Opportunity Cmn, 66. Address: 3 Woodman Rd, Worcester, Mass. 01602.

ELIAS, DR. JACK Z, b. Jerusalem, Palestine, Dec. 29, 10; nat; m. 51. PSYCHOLOGY. B.S, City Col. New York, 32; M.A, Columbia, 37; Ph.D.(psychol), N.Y. Univ, 51. Psychologist, Works Progress Admin, N.Y, 37-39; field asst, Soc. Security Bd, 39-44; clin. psychologist, Westchester County Dept. Fam-

ily & Child Welfare, N.Y, 44-45; PRACTICING PSYCHOLOGIST, 47- Psychologist, pub. schs, N.Y, 44-56; lectr, N.Y. Univ, 51; psychologist, Juvenile Detention Home, Ariz, 56; from psychologist to dir, Child Develop. Center, 56-63; asst. prof, Arizona State, 56-58, lectr, 58-59. Abstr, Psychol. Abstracts, 59- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 61. Fel. AAAS; fel. Psychol. Asn. Address: 736 E. Flynn Lane, Phoenix, Ariz. 85014.

ELIAS, DR. MERRILL F(RANCIS), b. Pittsburgh, Pa, Apr. 17, 38; m. 61; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Allegheny Col, 60; M.S, Purdue, 61, Ph.D.(exp. psychol), 63. Exp. psychologist, Air Force Systs. Command, Rome Air Develop. Center, U.S. Air Force, 63-65; ASST. PROF. PSYCHOL, ALLEGHENY COL, 65- Nat. Sci. Found. grant, 67-69. Consult, Crawford County Ment. Health Clin, Pa, 65-67; Vallonia Industs. Pa. Bur. Voc. Rehab, 66- U.S.A.F, 63-65, Res, 65-, Capt. Psychol. Asn. Animal discrimination and comparative psychology; applied perception; human learning. Publ: Co-auth, Identification of televised symbols as a function of sumbol resolution, 65 & auth, Relation of stimulus size to discrimination learning in the hooded rat, 67, Perceptual & Motor Skills; Relation of drive to finger withdrawal conditioning, J. Exp. Psychol, 65. Address: Dept. of Psychology, Allegheny College, Meadville, Pa. 16335.

ELIASBERG, DR. WLADIMIR G, b. Wiesbaden, Germany, Dec. 10, 87; nat; m; c. 4. PSYCHIATRY, PSYCHOLOGY. M.D, Heidelberg, 12; Ph.D, Munich, 24. Practicing psychiatrist & psychologist, 19-; prof. psychol, Vienna, 33-36; vis. prof. polit. sci, Prague Acad. Polit. Sci, Czech, 37; lectr. soc. psychol, Rutgers, 46-47; psychiat. consult, Bulova Watch Co, 47-48; pres, Asn. Psychiat. Treatment of Offenders, 50-57. Nat. Inst. Ment. Health grant, ed. & trans, Magazin z. Erfahrunngsseelenkunde, 1783-1793, Bethesda, Md, 65. Pres, Am. Soc. Psychoanal. Physicians. Psychol. Asn; fel. Sociol. Asn; fel. Psychiat. Asn; fel. N.Y. Acad. Med; hon. mem. Asn. Psychiat. Treatment Offenders; hon. mem. Austrian Med. Soc. Psychother. Psychotechnics; industrial motivations; propaganda. Publ: Co-auth, Speaking and thinking, N. Holland Pub. Co, 54; auth, Psychotherapy and society, Philos. Library, 59; co-auth, Die psychotechnik die motivationsstufen der arbeit, Luchterhand. 66. Address: 151 Central Park West, New York, N.Y. 10023.

ELICK, PROF. JOHN WILLIAM, b. Enid, Okla, Feb. 21, 19; m. 42; c. 2. ANTHROPOLOGY, ANTHROPOLOGICAL LINGUISTICS. B.A, La Sierra Col, 51; Lima, 53; M.A, California, Los Angeles, 65. Dir, Nevati Mission Sta, Peru, 51-57; supt, Ucayali Dist, Amazon Mission, Peru, 48-59, pres, Amazon Mission, 59-60; Inca Union Mission, Peru, Bolivia & Ecuador. 61-63; ASST. PROF. ANTHROP. & CHMN. DEPT. SOCIOL. & ANTHROP, LOMA LINDA, 64- Hosp.C, U.S.N.R, 42-43. Am. Anthrop. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Am. Ethnol. Soc. Relation of language to culture and world view; primitive religion; Campa Indian folklore and shamanism. Address: 11707 Hazeldell Dr, Riverside, Calif. 92505.

ELINSON, DR. J(ACK), b. New York, N.Y, June 30, 17; m. 41; c. 4. SOCIAL PSYCHOLOGY. B.S, City Col. New York, 37; M.A, George Washington, 46, Ph.D.(soc. psychol), 54. Res. psychologist, attitude res. br, Dept. Defense, 42-51; sr. study dir, Nat. Opinion Res. Center, 51-56; assoc. prof. ADMIN. MED. COLUMBIA, 56-64, PROF, 64- Asst. prof, Chicago, 54-56. Consult, bur. soc. sci. res, American Univ, 51; Am. Asn. Med. Cols; Health Ins. Plan of Greater New York. Mem. study sect. nursing res, div. res. grants, Nat. Insts. Health, 65-67, study sect. epidemiol, 67-; tech. bd, Milbank Mem. Fund, 66- AAAS; Psychol. Asn; Sociol. Asn; Asn. Pub. Opinion Res; Statist. Asn; Pub. Health Asn; N.Y. Acad. Sci. Sociological and psychological aspects of health and medical care; Validity of health statistics; sample survey research methods. Publ: Chronic illness in a rural area; Physician's dilemma in Puerto Rico; co-auth, Public image of mental health services, Ment. Health Mat. Center, New York, 67. Address: 630 W. 168th St, New York, N.Y. 10032.

ELIOT, DR. JOHN, b. Washington, D.C; m. 59; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Harvard, 56, A.M.T, 58; Ed.D, Stanford, 66. Teacher, pub. schs, Mass, 57-61; coordinator cognitive study basic geog, Coun. Pub. Schs, Boston, 62; ASST. PROF. ED. & PSYCHOL, NORTHWESTERN, 66- Consult, Scott Foresman & Co, 66-; Coronet Filmstrips. Soc. Res. Child Develop; Ed. Res. Asn; Psychol. Asn. Cognitive processes and development; teacher preparation. Publ: Effects of age and training upon children's spatial conceptualization, Nat. Inst. Child Health & Human Develop. Report, 2/66. Address: Northwestern University, 35 Old College, Evanston, Ill. 60201.

ELIOT, PROF. THOMAS H(OPKINSON), b. Cambridge, Mass, June 14, 07; m. 36; c. 2. POLITICAL SCIENCE. A.B, Harvard, 28, LL.B, 32; LL.D, Drury Col, 62; L.H.D, Hobart & William Smith Cols, 66. Lectr. govt, Harvard, 37-38, 48-51; Mass. Inst. Tech, 51-52; PROF. POLIT. SCI, WASHINGTON (ST. LOUIS), 52-, CHANCELLOR, 62-, chmn. dept. polit. sci, 52-61, v.chancellor, 61-62. Gen. counsel, Soc. Security Bd, 35-38; regional dir. wage & hour div, U.S. Dept. Labor, 39-40; rep, Cong, 41-43; exec. dir, State Reorgn. Cmn, Mass, 50-52. Polit. Sci. Asn; Soc. Pub. Admin; Am. Acad. Arts & Sci. Publ: Governing America; Van Waters case; Reorganizing the Massachusetts Department of Conservation. Address: 6420 Forsyth Blvd, Clayton, Mo. 63105.

ELISEO, DR. T(HOMAS) S(TEPHAN), b. Brooklyn, N.Y, Apr. 9, 32; m. 55; c. 1. CLINICAL & SOCIAL PSYCHOLOGY. B.A, Queens Col.(N.Y), 53; M.S, Purdue, 59, Ph.D.(clin. psychol), 60. Asst. psychol, Northwestern, 56-57; Purdue, 57-59; trainee psychol, Vet. Admin. & Cent. State Hosps, Indianapolis, 59-60; CLIN. PSYCHOLOGIST, Vet. Admin. Hosp, Pa, 60-63; Psychiat. Serv, Tenn, 63-64; SWEDISH AM. HOSP, 65- Lectr, Rockford Evening Col, 65- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 67. U.S.A, 53-55. AAAS; Psychol. Asn. Psychological evaluation; psychotherapy; culture and personality. Publ: Overinclusive thinking in process and reactive schizophrenics, J. Consult. Psychol, 10/63; Delusions in process and reactive schizophrenics, J. Clin. Psychol, 64; Effectiveness of remotivation technique with chronic psychiatric patients, Psychol. Reports, 64. Address: Psychiatry Dept, Swedish American Hospital, 1316 Charles St, Rockford, Ill. 61101.

EL-KAMMASH, DR. MAGDI M, b. Port-Said, Egypt, Sept. 9, 31; m. 66. ECONOMICS, APPLIED STATISTICS. B.Sc, Cairo, 52; Inst. Banking Studies award, 55-56, Dipl, 56; Egyptian Govt. fel. & M.P.H, North Carolina, 58; Ford Found. & univ. scholar, Duke, 58-60, Ph.D.(econ), 65. Res. officer, Indust. Develop. Bank, Egypt, 53-57; res. assoc. statist, Duke, 60-61; instr. ECON, N.C. STATE, 61-63, asst. prof, 63-67, ASSOC. PROF, 67- Fel, faculty seminar econ, Ford Found, 64; fel, econ-in-action prog, Case, 67; vis. lectr, Oxford, 67-68. Consult, Nat. Prod. Coun, Nat. Coun. Welfare Serv. & Ministry Commerce, Egypt, 54-57. Am. Econ. Asn; Am. Statist. Asn; Economet. Soc; fel. Royal Econ. Soc. Economic development of underdeveloped areas, particularly the role of foreign capital, international capital movement and development models; regional development. Publ: Economic development and planning in Egypt, Praeger, 58; Mr. Stockwell's infant mortality index for measuring economic development: a comment, Milbank Quart, 62; On the measurement of economic development using scalogram analysis, Papers & Proc. Regional Sci. Asn, 63. Address: Farrington Rd, Route 2, Chapel Hill, N.C. 27514.

ELKHOLY, DR. ABDO A, b. Elmansoura, Egypt, July 16, 25; U.S. citizen; m. 55; c. 3. SOCIOLOGY. B.A, Al-Azhar Univ, Cairo, 52, M.A, 54; M.A, Ain Shams, Cairo, 54; M.A, Princeton, 57, Ph.D.(sociol), 60. Asst. prof. SOCIOL, American Univ. Cairo, 60-63; ASSOC. PROF, State Univ. N.Y. New Paltz, 63-65; NORTHERN ILLINOIS, 65- Fulbright fel, U.A.R-U.S. Ed. Cmn, Cairo, 60-63. Consult, Al-Azhar Univ. & Govt. of Youth, Egypt, 60-63. Dir, Cong. Culture Freedom, Cairo, 60-63. Sociol. Asn; Mid. East Inst. Problems of acculturation of the ethnic and religious minority groups in general and particularly the Muslims in North America. Publ: Principles of sociology, Dar-al-Nahda, Egypt, 61; The Arab Moslems in the United States, Col. & Univ, 66. Address: 921 W. Taylor St, DeKalb, Ill. 60115.

ELKIN, DR. ALBERT, b. Chicago, Ill, Aug. 15, 18; m. 52; c. 4. PSYCHOLOGY. Ph.D, Northwestern, 50. Asst. prof. psychol, Univ. Kansas City, 50-56; res. assoc, Courtney & Co, 56; res. scientist, HumRRO, 56-59; staff psychologist, ELECTRONICS SYSTS. CENTER, INT. BUS. MACH. CORP, 59-63, ADV. HUMAN FACTORS ENGR, 63- U.S.A, 41-46. AAAS; Psychol. Asn. Learning; personnel requirements; training; engineering psychology; psychological aspects of automation. Publ: Personality correlates of serial verbal learning. Address: Electronics Systems Center, International Business Machines Corp, Owego, N.Y. 13827.

ELKIN, DR. EDWIN HARVEY, b. New York, N.Y, May 6, 36. PSYCHOLOGY, EDUCATION. B.S, City Col. New York, 56; M.A, Ohio State, 58; Link Found. fel, Tufts, 58-59, Ph.D.(psychol), 61. Mem. tech. staff, Radio Corp. Am, 61; res. assoc, Dunlap & Assocs, 63-64; res. psychologist, Am. Insts. Res, 64-67; supvr. dir. dept. pupil personnel serv, pub. schs, D.C, 67-68; RES. PSYCHOLOGIST, FRIENDS PSYCHIAT. RES, INC, 68- Fulbright scholar. exp. psychol, Paris, 61-62. Consult, Westinghouse Learning Corp, 67; LSI Serv. Corp, 67. AAAS; Psychol. Asn; Human Factors Soc. Human factors; visual displays; oculo-motor tracking systems; dynamic visual acuity; visual recognition thresholds; basic abilities test development; psychopharmacology; drug effects on human performance; drug abuse; psychedelics. Publ: Target velocity, exposure time and anticipatory tracking time as determinants of dynamic visual acuity, J. Eng. Psychol, 1/62; co-auth, Effects of drugs on human performance, Am. Inst. Res. Annual Report, 10/65; LSD and the realization of human potential, J. Human Potential, summer 68. Address: 1629 Columbia Rd. N.W, Washington, D.C. 20009.

ELKIN, PROF. FREDERICK, b. Atlantic City, N.J, Aug. 15, 18; m. 55; c. 3. SOCIOLOGY. B.A, Chicago, 40, M.A, 46, Ph.D, 51. Lectr, Southern California, 48-51; asst. prof. SOCIOL, Missouri, 51-52; McGill, 52-61, assoc. prof, 61-62; Montreal, 62-64; PROF. & CHMN. DEPT, YORK, 64- Mem. res. staff, Motion Picture Asn. Am, Calif, 47-50; summers, coding supvr, nat. opinion res. center, Chicago, 52, proj. dir, Defence Res. Bd. Can, 55, lectr, Macdonald Col, McGill, 59. Consult, Defence Res. Bd. Can, 56; Boys Village, 66-; Vanier Inst. Family, 66- Sig.C, 42-45, Sgt. Am. Sociol. Asn; Can. Sociol. & Anthrop. Asn. Socialization of the child; mass media of communication, especially motion pictures and advertising. Publ: Child and society; The family in Canada, Vanier Inst. Family, 64; Advertising in French Canada: innovations and deviations in the context of a changing society, In: Explorations in social change, 64. Address: Dept. of Sociology, York University, Toronto, Ont, Can.

ELKIN, J(ACK) M, b. Brooklyn, N.Y, Jan. 26, 13; m. 35; c. 2. STATISTICS, ACTUARIAL SCIENCE. B.S, City Col. New York, 31; M.A, Columbia, 32. Chief statistician, U.S.R.R. Retirement Bd, 35-54; SR. V.PRES. & CHIEF ACTUARY, MARTIN E. SEGAL & CO, 54- Adj. asst. prof, Long Island, 55-65; lectr, Polytech. Inst. Brooklyn, 66- Soc. Actuaries; Math. Asn; Acad. Actuaries. Social security; pensions. Publ: Social security and public employees, Pub. Admin. Rev; Costs in pension planning, Proc, N.Y. Univ. Ann. Conf. Labor; Multi-employer pension plans under collective bargaining, Trans. 17th Int. Cong. Actuaries, London, 64. Address: 1527 E. 29th St, Brooklyn, N.Y. 11229.

ELKIN, DR. VICTOR B(ENJAMIN), b. New York, N.Y, May 8, 20; m. 46; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 42; M.A, N.Y. Univ, 48, Ph.D.(clin. psychol), 52. Psychol. trainee, Vet. Admin, 48-51; dir. psychol. serv, LONG BEACH SCH. SYST, 51-65, DIR. PUPIL PERSONNEL SERV, 65- Private practice, 51-; instr, N.Y. Univ, 55; proj. dir, Nat. Inst. Ment. Health grant, 67- Consult. dept. psychol, Fla. State, 67- Dorothy M. Hughes Mem. award psychol, 67. U.S.A.A.F, 42-46. Fel. Psychol Asn; Orthopsychiat. Asn. Therapy with children and adults; school readiness of pre-school children. Publ: Interdisciplinary problems in school psychology, Grune, 63; Public school psychological services; An old timer looks at school psychology, J. Sch. Psychol, 65. Address: 331 Clearview Court, Massapequa, N.Y. 11758.

ELKIN, WILLIAM F(UTTER), b. Atlantic City, N.J, May 5, 16; m. 44; c. 1. BIOSTATISTICS. B.S, Harvard, 37; M.S, Michigan, 41, M.S.P.H, 42. Asst. statistician, res. div, Off. Price Admin, 42-43; res. secy, Phila. Tuberc. & Health Asn, 43-45; statistician, Oak Ridge Dept. Health, Tenn, 45-48; health physics div, Oak Ridge Nat. Lab, 48-49; res. staff mem, dept. biostatist, sch. pub. health, North Carolina, 50-54; biostatist. consult, Fife-Hamill Mem. Health Center, 54-58; biostatistician, periodontal res. proj, sch. dent, Temple, 58-60; res. assoc, Henry Phipps Inst, sch. med, Pennsylvania,

60-62, guest lectr, sch. nursing, 59-62; STATISTICIAN & STATIST. CONSULT, U.S. DEPT. HEALTH, ED. & WELFARE, 62- Fel. AAAS; fel. Pub. Health Asn; Statist. Asn. Public health; experimental statistics. Publ: Mass chest x-ray survey in Philadelphia war industries, Am. Rev. Tuberc; Relation of housing to the incidence of meningococcic disease in an outbreak in Oak Ridge, Tennessee, Am. J. Pub. Health. Address: 6005 McKinley St, Bethesda, Md. 20034.

ELKIND, PROF. DAVID, b. Detroit, Mich, Mar. 11, 31; m. 60. PSYCHOLOGY. B.A, California, Los Angeles, 52, Ph.D, 55. Res. asst. psychol, Austen Riggs Center, Inc, 56-57; staff psychologist, Beth Israel Hosp, Boston, Mass, 57-59; asst. prof. PSYCHOL, Wheaton Col.(Mass), 59-61; sch. med, California, Los Angeles, 61-62; assoc. prof, Denver, 62-66; PROF, ROCHESTER, 66- AAAS; Psychol. Asn; Soc. Res. Child Develop; Inter-Am. Soc. Psychol. Conceptual and perceptual development in children; development of religious values and experience. Publ: Ed, Six psychological studies, Random, 68 & Essays in cognitive development, Oxford, 68; auth, Cognitive development in adolescence, In: Contributions to the understanding of adolescence, Allyn & Bacon, 67. Address: Dept. of Psychology, University of Rochester, Rochester, N.Y. 14627.

ELKIND, DR. JEROME I, Eng. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

ELLEN, PROF. PAUL, b. Brooklyn, N.Y, Jan. 29, 28. PSYCHOLOGY. B.S, Massachusetts, 47, M.S, 49; Ph.D.(psychol), Michigan, 54. Res. asst, vision res. labs, Michigan, 55-57; chief physiol. psychol. res. sect, Vet. Admin. Center, 61-65; PROF. PSYCHOL, GA. STATE COL, 65- Physiological psychology. Publ: Co-auth, Septal inhibition and timing behavior in the rat, 8/64, Motivational changes in the rat following lesions of the masencephalic reticular formation, 3/65 & Differential conditioning of septum and hippocampus, 10/66, Exp. Neurol. Address: Dept. of Psychology, Georgia State College, 33 Gilmer St, Atlanta, Ga. 30303.

ELLENBOGEN, DR. ROBERT, b. New York, N.Y, July 9, 26. PSYCHOLOGY. B.S, City Col. New York, 48; fel. & M.S, Michigan, 50; Ph.D.(psychol), N.Y. Univ, 54; cert. psychother, Alfred Adler Inst, 61, cert. group psychother, 66. Lectr. psychol, Hunter Col, 50-53; res. fel. clin. psychol. & electroencephalog, Northampton Vet. Admin. Hosp, 54-55; instr. psychol, Brooklyn Col, 55-56; CLIN. PSYCHOLOGIST, Kings County Hosp, 57-60; BELLEVUE HOSP, 60-; ASST. DEAN, ALFRED ADLER INST, 61-, SUPVR. PSYCHOTHER. & TRAINING ANALYST, 62-, staff mem, 58-61. Private practice, 57-; supvr. psychother. & lectr, N.J. Inst. Anal. Psychother, 63- Mem, Coun. Psychoanal. Psychotherapists. U.S.A, 44-46. Psychol. Asn; Group Psychother. Asn; Acad. Psychother. Language and thinking in personality development; creativeness and communication; philosophy of science from holistic viewpoint. Publ: Relation of children's speech usage to age and to sex, as a function of precision requirements in performance; Creativity, conformity and rebellion, In: Essays in individual psychology, Grove; Artist versus scientist, In: Generation Mag, Brooklyn Col, spring 56. Address: 1 W. 64th St, New York, N.Y. 10023.

ELLER, PROF. CORNELIUS ADAM, b. Buffalo, N.Y, Sept, 11, 12. ECONOMICS. A.B, Woodstock Col.(Md), 36, Ph.L, 37; M.A, Georgetown, 40; Ph.D, St. Louis, 51. Asst. dir. Crown Heights Sch. Workmen, N.Y, 39-40; lectr. econ. & assoc. chmn. dept, St. Louis & mem. staff, inst. soc. order, 49-52; chmn. dept. ECON, Canisius Col, 52-53; assoc. prof, LeMOYNE COL.(N.Y), 53-62, PROF, 62-, CHMN. DEPT, 58-, dean, 63-65. Econ. Asn; Economet. Soc; Soc. Hist. Tech; Acad. Econ. & Polit. Sci; Inst. Mgt. Sci; Soc. Int. Develop. Relationship between ethics and economics; foundations of economic organization; economic development; mathematical economics. Address: Dept. of Economics, LeMoyne College, Syracuse, N.Y. 13214.

ELLET, DR. WILLIAM C, JR, b. Benton Harbor, Mich, June 30, 22; m. 47; c. 2. POLITICAL SCIENCE. Univ. fel, Michigan, 52-54, univ. fel, Rackham fel. & Ph.D.(polit. sci), 55. Res. asst, Mich. mem. Phoenix proj, 54-55; instr. polit. sci, Iowa, 55-56; asst. prof, Virginia, 56-57; asst. mgr. physics & math, atomic energy div, Babcock & Wilcox Co, 57-60; long range planner, Sperry Rand Corp, 60-61; chief planning, Nortronics Div, NORTHROP CORP, 61-63, DIR. CORP. MKT. RES. & ANAL, BEVERLY HILLS, 63- Mem. Coun. Int. Mkt. Res. & Planning Dirs, 66. U.S.N, 42-46, 50-52, Lt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Pub. Admin; Int. Inst. Admin. Scis. Public administration; state government; administration of atomic energy, domestically and internationally. Publ: State governments and atomic energy; Defense decision making in technology; Launch vehicle and scientific satellites impact on electronics. Address: 6532 Via Lorenzo, Miraleste, Calif. 90732.

ELLETT, PROF. JOSEPH CARLYLE, b. Pocahontas, Va, Aug. 7, 12; m. 44; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Richmond, 32; M.A, Virginia, 33, Brookings fel, 36-37, Ph.D, 52. Supply prof. appl. econ, Richmond, 37-38; assoc. prof. ECON. & BUS. ADMIN. & acting head dept, FURMAN, 39-51, PROF. & CHMN. DEPT, 51-, DIR. SOC. SCI, 60- U.S.A, 43-46, 1st Lt. Address: Dept. of Economics & Business Administration, Furman University, Greenville, S.C. 29613.

ELLICKSON, PROF. DONALD L(IEN), b. Madison, Wis, Mar. 30, 29; m. 54; c. 4. ECONOMICS. B.A, Luther Col, 50; M.A, Wisconsin, 51, Ph.D.(econ), 66. Instr. econ. & bus. admin, Heidelberg Col, 52-54, asst. prof, 54-58; ECON, WIS. STATE, EAU CLAIRE, 58-62, assoc. prof, 62-66, PROF, 66-, CHMN. DEPT, 68-, acting chmn. dept, 67. Econ. Asn; Finance Asn. Land taxation theory. Address: Dept. of Economics, Wisconsin State University, Eau Claire, Wis. 54701.

ELLING, DR. RAY H, b. Duluth, Minn, July 23, 29; m. 50; c. 3. PUBLIC HEALTH, SOCIOLOGY. Dipl, Paris, 50; M.A, Chicago, 55; Commonwealth Found. fel, Yale, 55-57, Ph.D.(sociol), 57. Res. assoc, Harvard & Mass. Gen. Hosp, Boston, 58-59; Sloan Inst. Hosp. Admin, Cornell, 59-61, asst. prof, 61-63; assoc. prof. sociol. pub. health, grad. sch. pub. health, Pittsburgh, 63-67, PROF, 67-68; SOCIOL, DEPT. CLIN. MED, HEALTH CENTER, CONNECTICUT, 68- Russell Sage fel, Deusseldorf, Germany, 57-58. Field dir. joint cmt. study ed. pub. health, Asn. Sch. Pub. Health, 61-64. Consult, U.S.P.H.S, 64-; poverty prog, Lexington, Ky, 66-67. Fel, Sociol. Asn; fel. Pub. Health Asn; fel. Soc. Study Social Prob. Sociological research on problems of health care organization. Publ: Co-auth, Education and manpower for community health, Univ. Pittsburgh, 67; The hospital-support game in urban center, In: The hospital in modern society, Glencoe, 63; The design and evaluation of planned change in health organizations, in: Sociology in action, Dorsey, 66. Address: Dept. of Clinical Medicine, University of Connecticut School of Medicine, Hartford Plaza, Hartford, Conn. 06105.

ELLINGSON, PROF. ROBERT J(AMES), Psychol, see 11th ed, Phys. & Biol. Vols.

ELLINGSWORTH, PROF. HUBER W, Speech, Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

ELLIOTT, PRES. A(LBERT) RANDLE, b. St. Louis Co, Mo, Jan. 10, 14; m. 48. POLITICAL SCIENCE. B.A, Westminster Col, 35, LL.D, 62; A.M, Harvard, 38, Rockefeller Found. fel, 39-41, Ph.D, 49. Res. assoc, For. Policy Asn, 39-41; admin. assoc, Inst. Int. Ed, 41-43, adminstr, Wash. Bur, 46-47; dir. Counsel & Guid. Center For. Students in U.S, 43-45; econ. analyst, U.S. Strategic Bombing Surv, 45; chief reports officer, Off. U.S. Mil. Govt. for Germany, 45-46; London correspondent, McGraw-Hill Pubs, 47-48; exec. dir, Greer Sch, 49-61; PRES, HOOD COL, 61- Mem. Am. Mus. Natural Hist. Coun. For. Rels; Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Inter-American affairs; international organization; post-war Germany; educational policy and administration. Publ: European colonies in the western hemisphere; Resources and trade of Central America; co-auth, The United States at war. Address: Hood College, Frederick, Md. 21701.

ELLIOTT, DR. ARNETT A(LEXANDER), b. Dallas, Tex, Nov. 9, 20; m. 52; c. 3. POLITICAL SCIENCE, COMPARATIVE GOVERNMENT. A.B, Baylor, 41; Ph.D. Columbia, 60. Instr. govt, Columbia, 53-54, asst, Barnard Col, 54-55, lectr, 55-56, instr. 56-57; POLIT. SCI, Wittenberg Col, 57-59; acting asst. prof, Tennessee, 59-61; asst. prof, Whitman Col, 61-64, ASSOC. PROF, 64-66; TENNESSEE, 66- U.S.A.A.F, 42-46, Sgt. Polit. Sci. Asn. Contemporary ideologies; science and politics; political theory. Address: Dept. of Political Science, University of Tennessee, Knoxville, Tenn. 37918.

ELLIOTT, DR. CARL H(ARTLEY), b. Columbus, Ind, Mar. 21, 22; m. 45; c. 4. PSYCHOLOGY. A.B, Indiana, 46, M.B.A, 47; Ph.D.(psychol), Purdue, 52. Asst. prof. psychol, Miami (Ohio), 48-51; assoc. prof, Purdue, 52-55; mgr. employee rel, Socony Mobil Oil Co, Inc, Ind, 55-57, supvr. selection & placement, N.Y, 57-59; DIR. CALUMET CAMPUS, PURDUE, 59-, DEAN, 66- Lectr, Earlham Col, 49; eve. col, Cincinnati, 49-51. U.S.A.A.F, 42-46. Psychol. Asn; Int. Asn. Appl. Psychol. Industrial motivation, selection and training. Address: Purdue University, Calumet Campus, Hammond, Ind. 46323.

ELLIOTT, DR. CAROLYN M, b. Chicago, Ill, Aug. 27, 37. POLITICAL SCIENCE. B.A, Wellesley Col, 59; M.A, Radcliffe Col, 62; fel, Chicago, 65; Ph.D.(polit. sci), Harvard, 68. ASST. PROF. GOVT, CALIFORNIA, SANTA CRUZ, 66- Polit. Sci. Asn; Asn. Asian Studies. State politics in Andhra Pradesh, India, a study in comparative political development. Address: Stevenson College, University of California, Santa Cruz, Calif. 95060.

ELLIOTT, DR. CHARLES FOX, b. Cambridge, Mass, May 17, 31; m. 56; c. 3. POLITICAL SCIENCE. B.A, Harvard, 53, Ph.D.(Russian area studies), 64; M.A, California, Berkeley, 58. Lectr. polit. sci, California, Riverside, 63-65; ASST. PROF. POLIT. SCI. & INT. AFFAIRS, GEORGE WASHINGTON, 65- Lectr, Indust. Col. Armed Forces, 66-67; Defense Intel. Sch, 66-67; For. Serv. Inst, 67-68; U.S. Dept. Army, 67. Mem, Smithsonian Inst. Mil. Intel, U.S.A, 53-56. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Acad. Polit. & Soc. Sci. Soviet foreign policy, government and politics; Marxism-Leninism. Publ: Lenin, Rosa Luxemburg and the dilemma of the non-revolutionary proletariat, Midwest J. Polit. Sci, 11/65; Proletarian revolution and the mass strike, Southwest Soc. Sci. Quart, 6/66; Quis custodiet sacra? problems of Marxist revisionism, J. Hist. Ideas, 1-3/67. Address: Institute for Sino-Soviet Studies, George Washington University, Washington, D.C. 20006.

ELLIOTT, PROF. DONALD NORRIS, Psychol, see 10th ed, Soc. & Behav. Vols.

ELLIOTT, E(DWARD) H(AROLD), b. Brooklyn, N.Y, Jan. 20, 07; m. 36; c. 3. PHYSICS, LIBRARY SCIENCE. B.A, Wisconsin, 31; L.S, Pratt Inst, 33. Tech. asst, Bell Tel. Labs, Am. Tel. & Tel. Co, 24-28; asst, New York Library, 31-34; abstr. & reference librn, Standard Oil Develop. Co, 34-38; head sci. & tech. dept, Pratt Inst. Free Library, 38-44; patent chemist, Hercules Powder Co, Del, 44-45; reference librn, Main Library, Gen. Elec. Co, 45-54, librn, 54-61; SCI. LIBRN, SCHAFFER LIBRARY, UNION COL. (N.Y), 61- Lectr, library sch, Pratt Inst, 38-44. Spec. Libraries Asn; Library Asn. Organization and administration of special libraries; electronics; beta radiography in watermark identification. Publ: Technical information sources, In: Industrial electronics handbook. Address: Schaffer Library, Union College, Schenectady, N.Y. 12308.

ELLIOTT, DR. FRANCIS E(DWARD), Phys. Geog, see 10th ed, Soc. & Behav. Vols.

ELLIOTT, G(EORGE) A(LEXANDER), b. Napier, Ont, July 22, 01. ECONOMICS. B.A, Manitoba, 20; M.A, 25; Chicago, 26-27; hon. LL.D, Queen's (Ont), 65. Lectr, Manitoba, 24-26, asst. prof, 27-28; Chicago, 28-29; prof. polit. econ, Alberta, 29-46; Toronto, 46-57; CMNR, TARIFF BD, CAN, 57- Cmnr, Royal Cmn. Coops, 44-45; mem, Can. Soc. Sci. Res. Coun, 44-48, 57-61; dir, Nat. Bur. Econ. Res, 48-57; Guggenheim fel, 53-54; mem. at large, Univs. Nat. Bur. Cmt. Econ. Res, 62- Managing ed, Can. J. Econ. & Polit. Sci, 48-57. Am. Econ. Asn; Economet. Soc; Can. Polit. Sci. Asn.(pres, 57-58) Can. Econ. Asn; fel. Royal Soc. Can; Royal Econ. Soc. International trade; economic theory. Publ: Tariff procedures and trade barriers. Address: Tariff Board of Canada, Argyle St, Ottawa, Ont, Can.

ELLIOTT, DR. JAMES MARVIN, b. Hawley, Tex, June 28, 32; m. 59; c. 2. PSYCHOLOGY. B.S, Abilene Christian Col, 59; M.A, Houston, 63, Ph.D. (psychol), 66. Res. asst. psychol, Houston, 61-63, res. assoc. physiol. psychol, univ. & NASA, 63-65; ASST. PROF. PSYCHOL, TEXAS A&M, 65- U.S.M.C, 49-55, S/Sgt. AAAS; Psychol. Asn. Learning theory; industrial training; emotional correlates of learning; statistics and experimental design. Publ: Co-auth, Validation of a carefulness test battery against training school criteria, Personnel Res. Lab, Lackland Air Force Base, 64; auth, The effects of partial pacing on test parameters, Ed. & Psychol. Measurement, 65. Address: Dept. of Psychology, Texas A&M University, College Station, Tex. 77843.

ELLIOTT, PROF. JAMES R(OBERT), Econ, see 10th ed, Soc. & Behav. Vols, deceased 65.

ELLIOTT, DR. JAN WALTER, b. Indianapolis, Ind, Nov. 8, 39; m. 63. MANAGERIAL & BUSINESS ECONOMICS. B.S, Purdue, 61; M.S, Southern California, 64, Ford Found. grant, 66, D.B.A, 67. Mem. staff logistics res, Lockheed Aircraft Corp, 61-65; part-time instr. econ, Southern California, 65-66; ASST. PROF, Calif. State Col. Los Angeles, 66-67; MANAGERIAL & BUS. ECON, WISCONSIN, MILWAUKEE, 67- Mem, Nat. Bur. Econ. Res. Economic Asn; Statist. Asn. Structure and environment of the business enterprise, especially the economic dimension of the business enterprise. Address: School of Business Administration, University of Wisconsin, Milwaukee, Wis. 53201.

ELLIOTT, PROF. JOHN ED, b. Los Angeles, Calif, Oct. 22, 31; m. 52; c. 4. ECONOMICS. B.A, Occidental Col, 52; univ. fels, Harvard, 52-56, Calif. Cong. Parents & Teachers fel, 52-53, M.A, 55, Ph.D.(econ), 56. Instr. ECON, SOUTHERN CALIFORNIA, 56-59, asst. prof, 59-61, assoc. prof, 61-66, PROF, 66- Econ. Asn; Asn. Comp. Econ; Asn. Evolutionary Econ. Economic theory; comparative economic systems and national economic planning; comparative theories of economic systems. Publ: Co-auth, Economic issues and policies: readings in introductory economics; Houghton, 65; auth, Intermediate macroeconomic theory, McGraw, 65; Economic planning reconsidered, Quart. J. Econ. Address: Dept. of Economics, University of Southern California, Los Angeles, Calif. 90007.

ELLIOTT, DR. LLOYD JAMES, b. Lockport, La, Oct. 3, 31. ECONOMICS. B.S, St. Mary's (Tex), 55; M.B.A, Houston, 59; Ford Found. fel, Texas, 62-63, Ph.D.(econ), 63. Data processing eng, Westinghouse Elec. Corp, 55-57; sr. systs. analyst, Humble Oil & Ref. Co, 58-59; teaching fel. econ, Texas, 59-62; assoc. prof, Col. of William & Mary, 63-64; staff economist, South. Regional Coun, Inc, 64-66; assoc. prof. econ, Oglethorpe Col, 66-68, chmn bus. & econ. div, 67-68; PROF. ECON. & CHMN. DEPT, QUEENS COL. (N.C), 68- Staff economist, ad hoc subcmt, war on poverty, U.S. House Rep, 65-66. U.S.A.F, 51-55, S/Sgt. Econ. Asn; Asn. Evolutionary Econ. Poverty; economic status of minority groups; regional economics. Publ: Co-auth, What happened in the South, 64 & auth, Federal anti-poverty programs, present and pending, 65, South. Regional Coun, Inc; The Negro vote in Southern and national politics, New South, 9/65. Address: Dept. of Economics, Queens College, Charlotte, N.C. 28207.

ELLIOTT, DR. LOIS L(AWRENCE), Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

ELLIOTT, PROF. MABEL A(GNES), b. Liscomb, Iowa, May 13, 98. SOCIOLOGY. A.B, Northwestern, 22, A.M, 23, Wieboldt res. fel, 24, Ph.D, 29; Carola Woerishoffer fel, Bryn Mawr Col, 24-26. Asst. prof. sociol, Kansas, 29-37; vis. prof, Minnesota, 36-37; assoc. prof, Kansas, 38-46; consult. sociologist, Am. Nat. Red Cross, 46-47; prof. SOCIOL, CHATHAM COL, 47-61, chmn. dept, 47-65, Irene Heniz Given prof, 61-65, EMER. PROF, 65- Res. dir, State Pub. Welfare Cmn, Kans, 31-33; Fulbright lectr, Bonn, 55-56; vis. prof, Georgia, 60; adj. prof, Brooklyn Col, 65-66; univ. prof, Hunter Col, 66-67. Asst. ed, Am. Sociol. Rev, 41-44; co-ed, Handbook of Kans. Soc. Resources. Chmn, screening cmt, Fulbright & Mundt awards, 56-59; adv. cmt, Fulbright Cmn, 60- Soc. Study Soc. Probs.(pres, 56-57); fel. Int. Inst. Arts & Letters. Criminology; juvenile delinquency. Publ: Social disorganization; contrib, Encyclop. Britannica; Research on middle class delinquency, Monatschrift für Kriminologie and Strafrechlseform, Germany, 8/67. Address: Chatham College, Pittsburgh, Pa. 15221.

ELLIOTT, DR. M(ERLE) H(UGH), b. Redlands, Calif, Apr. 2, 01; m. 27; c. 3. PSYCHOLOGY. A.B, California, 24, fel, 25-29, M.A, 28, Ph.D.(psychol), 29. Instr. psychol, Harvard, 29-35; asst. prof, Utah, 35-36; consult. individual guid, Oakland Pub. Schs, 36-45, dir. res, 45-66; PRIVATE PRACTICE, 66- Consult, Stanford, 53-60. Mem. psychol. exam. cmt, State Bd. Med. Exam, Calif, 61-66. Fel. Psychol. Asn. Achievement tests; motivation; learning. Address: 18 Chancellor Place, Berkeley, Calif. 94705.

ELLIOTT, PROF. RICHARD M(AURICE), b. Lowell, Mass, Nov. 3, 87; m. 29. PSYCHOLOGY. A.B, Dartmouth Col, 10; A.M, Harvard, 11, Ph.D.(psychol), 13; Sheldon traveling fel. from Harvard, Berlin, 13-14. Instr. PSYCHOL, Harvard, 14-15; Yale, 15-18; assoc. prof, MINNESOTA, 19-23, chmn. dept, 19-51, prof, 23-56, EMER. PROF, 56- Ed, Century Psychol. Series, 25. Dir, Psychol. Corp, 41-47. Mem. coun. dirs, Soc. Sci. Res. Coun, 39-45. Sanit.C, 18-19, Capt. AAAS; fel. Psychol. Asn. Systematic and biographical psychology; psychology of behavior. Address: 112 Psychology Bldg, University of Minnesota, Minneapolis, Minn. 55455.

ELLIOTT, DR. RODNEY DUANNE, b. Winfield, Kans, July 21, 29; m. 53; c. 3. SOCIOLOGY. A.B, Colorado, 54, fel, 56-57, Ph.D.(sociol), 58. ASSOC. PROF. SOCIOL, Kans. State Col, 57-63; Central Michigan, 63-66; OHIO, 66- U.S.A, 47-48; U.S.A.F, 51-52, Sgt. Sociol. Asn. Social backgrounds of United States senators; national character studies; small group behavior; political behavior; social theory. Publ: Message diffusion under uncontrolled conditions; Sales success and job satisfaction, Am. Soc. Rev; Friendship and the American national character, Ed. Leader. Address: Dept. of Sociology & Anthropology, Ohio University, Athens, Ohio 45701.

ELLIOTT, DR. SEAN MICHAEL, b. Denver, Colo, July 17, 39; m. 59; c. 3. POLITICAL SCIENCE. B.A, Colorado, 61, M.A, 62; Ph.D.(int. rels), Denver, 66. Asst. to pres, Capitol Fed. Savings & Loan Asn, 61-66; consult, FED. HOME LOAN BANK BD, 66-67, asst. to dir. off. int. home finance, 67-68, DIR. OFF. INT. HOME FINANCE, 68- Asst. to pres, Mutual El Pueblo, Lima, Peru, 64-65; asst. prof. polit. sci, Puget Sound, 65-66. Polit. Sci. Asn; Int. Studies Asn; Asn. Latin Am. Studies. Politics and economics of development, especially in Latin America; developmental role of United States foreign assistance policy. Publ: Financing Latin American housing: domestic savings mobilization and U.S. assistance policy, Praeger, 68. Address: Federal Home Loan Bank Board, 101 Indiana Ave. N.W, Washington, D.C. 20552.

ELLIOTT, PROF. W(ILLIAM) Y(ANDELL), b. Murfreesboro, Tenn, May 12, 96; m. 23, 36; c. 5. POLITICAL SCIENCE. A.B, Vanderbilt, 17, A.M, 20; cert, Sorbonne, Paris, 19; Ph.D, Oxford, 23; LL.D, Harvard. Instr. govt, Vanderbilt, 19-20; California, 23-24, asst. prof, 24-25; HARVARD, 25-29, assoc. prof, 29-31, prof, 31-42, Williams prof. HIST. & POLIT. SCI, 42-62, dir. summer sch, 50-62, EMER. PROF, 63-; UNIV. PROF. POLIT. SCI, AMERICAN UNIV, 63- Dir. stockpile & transportation div. & v.chmn. Off. Civilian Requirements, War Prod. Bd, 42-45; asst. dir, Off. Defense Mobilization, 51-53. Consult, President's Cmt. Admin. Mgt, 36; Nat. Adv. Defense Cmn, 40; Off. Prod. Mgt, 41; House Spec. Cmt. Postwar Econ. Policy & Planning, 45-46. Staff. dir, House Select Cmt. For. Aid, 47-48; House Cmt. For. Affairs, 47-49. Mem, cmt. on sci. methods, Soc. Sci. Res. Coun, 25-29; Bus. Adv. Coun, 37-; Tydings Mission, P.I, 45; planning bd, Nat. Security Coun, 53-57; hon. mem, Conf. Nat. Orgns, 64- A.E.F, 17-19, 1st Lt. Fel. Am. Acad. Arts & Sci; Polit. Sci. Asn. Philosophy; culture shaping of the West; organization and control of United States foreign policy. Publ: Television's impact on American culture, Mich. State Univ, 56; Education and training the developing countries, Praeger, 66; Pragmatic revolt in politics, Fertig, 67. Address: Hidden Valley Farm, Haywood, Va. 22722.

ELLIS, DR. ALBERT, b. Pittsburgh, Pa, Sept. 27, 13; div. CLINICAL PSYCHOLOGY. Ph.D.(clin. psychol), Columbia, 47. Clin. psychologist, State Hosp, Greystone Park, N.J, 48-49; instr. psychol, Rutgers, 48-49; N.Y. Univ, 49; chief psychologist, N.J. Diagnostic Center, 49-50; State Dept. Inst. & Agencies, N.J, 50-52; PSYCHOTHERAPIST & MARRIAGE COUNSR, 43- Exec. dir. psychol, Inst. Rational Living, Inc, 59-; Center Emotional Ed, 67- Consult, Vet. Admin, 61-66. Fel. AAAS; fel. Soc. Sci. Study Sex (pres, 60-62); Acad. Psychother.(v.pres, 62-64, distinguished serv. award, 65); fel. Asn. Marriage Counsr; fel. Psychol. Asn; fel. Sociol. Asn; fel. Orthopsychiat. Asn. Rational-emotive approach to psychotherapy; sex, love, marriage and family relations. Publ: Art and science of love; Reason and emotion in psychotherapy; co-auth, Guide to rational living. Address: 45 E. 65th St, New York, N.Y. 10021.

ELLIS, PROF. ELLEN DEBORAH, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

ELLIS, PROF. FLORENCE HAWLEY, b. Cananea, Sonora, Mex, Sept. 17, 06. ANTHROPOLOGY. A.B, Arizona, 27, A.M, 28; Ph.D, Chicago, 34. Assoc. prof. ANTHROP, NEW MEXICO, 34-55, PROF, 55- Res. assoc, Tenn. Valley Authority, 34-37; assoc. prof, Chicago, 37-41. Anthrop. Asn; Soc. Am. Archaeol; Ethnohist. Soc. Southwestern ethnology and archaeology; dendochronology; pottery. Publ: Contrib. to Am. Antiquity, Am. Anthropologist and Southwest. J. Anthrop. Address: Dept. of Anthropology, University of New Mexico, Albuquerque, N.Mex. 87106.

ELLIS, DR. GEORGE H(ATHAWAY), b. Orono, Maine, Jan. 29, 20; m. 46; c. 4. ECONOMICS. B.A, Maine, 41; fel. Harvard, 48-49, M.A, 49, Ph.D.(econ), 50. Asst. econ, Maine, 46; asst. prof. econ. & bus. admin, Maine, 49-51; indust. economist, FED. RESERVE BANK OF BOSTON, 51-53, dir. res, 53-61, PRES, 61- U.S.A, 41-45, Maj. Econ. Asn. Monetary policy; industrial development. Publ: Co-auth, New England economy; co-ed, Economic state of New England. Address: 177 Benvenue St, Wellesley, Mass. 02181.

ELLIS, HAROLD H(ARLAN), b. Lena, Ill, July 12, 20; m. 43; c. 2. AGRICULTURAL ECONOMICS. B.A, Illinois, 43, LL.B, 48; M.S, Mich. State Col, 51. AGR. ECONOMIST, U.S. DEPT. AGR, 49- Leader, Water Law Studies, econ. res. serv, U.S. Dept. Agr. U.S.A, 43-46. Agr. Econ. Asn. Legal and related economic aspects of water utilization. Publ: Co-auth, Water use law in Illinois, Univ. Illinois Agr. Exp. Sta, 64; Some current and proposed legislation on water rights in the eastern states, Iowa Law Rev; Developing trends in water law in the eastern states, Water Resources Law Coloquium, Pa. State, 67. Address: 5215 Easton Dr, Springfield, Va. 22151.

ELLIS, DR. HERMAN A(DAM), b. Casey Co, Ky, Feb. 27, 07; m. 48. BUSINESS ADMINISTRATION. A.B, Berea Col, 35; A.M, Kentucky, 39; D.B.A, Indiana, 54. Asst. prof. bus. admin, Georgia, 39-42, 43-44; asst, bur. bus. res, KENTUCKY, 44-45, from asst. prof. commerce to ASSOC. PROF. BUS. ADMIN, 45- Instr, Navy Training Sch, Ind, 42-43; acct, U.S. Pre-Flight Sch, Ga, 43. Am. Acct. Asn; Finance Asn. Business finance; small business management; manpower and labor skill surveys. Publ: Motor bus transportation in the Southeast, Indiana Univ. Bur. Bus. Res, 63; co-auth, Small business in Kentucky, Univ. Kentucky Bur. Bus. Res, 66 & Financial management, In: Essentials of management, Prentice-Hall, 63. Address: College of Business & Economics, University of Kentucky, Lexington, Ky. 40506.

ELLIS, PROF. HOWARD S(YLVESTER), b. Denver, Colo, July 2, 98. ECONOMICS. A.B, Iowa, 20; A.M, Michigan, 22, LL.D, 51; Ricardo Prize fel, Harvard, 23, Sheldon traveling fel. from Harvard, Heidelberg, 24-25, A.M, 24, Ph.D, 29; hon. A.M, Yale, 46. Instr. ECON, Michigan, 20-22, 25-29, asst. prof, 29-35, assoc. prof, 35-37, prof, 37-38; CALIFORNIA, BERKELEY, 38-65, EMER. PROF, 65-, chief of party, Univ. & Agency Int. Develop, Rio de Janeiro, Brazil, 65-67. Soc. Sci. Res. Coun. fel, Vienna, 33-35; econ. analyst, Bd. Governors, Fed. Reserve Syst, D.C, 43-44, asst. dir, div. res. & statist, 45-46; vis. prof, Columbia, 44-45, 49-50; dir, Marshall Aid Res. Proj, Coun. For. Rel, New York, 49-50; vis. prof, Univ. Bombay, 58-59. UNESCO researcher, Latin-Am. Countries, 60; expert, FLACSO Conf, Santiago, Chile, 61. Co-ed, Kyklos, 50- Wells award, Harvard, 30. Econ. Asn.(pres, 49); Royal Econ. Soc; Int. Econ. Asn.(pres, 53-56). Economic theory. Publ: Exchange control in Central Europe, Harvard, 41; ed, A sur-

vey of contemporary economics, Blakeston, 48 & Essays on the economy of Brazil, Univ. California, 68. Address: 936 Cragmont Ave, Berkeley, Calif. 94708.

ELLIS, DR. JACK BARRY, Elec. Eng, see 11th ed, Suppl. II to Phys. & Biol. Vols.

ELLIS, DR. LIPPERT S(PRING), Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 62.

ELLIS, DR. NEWTON CASS, b. Paris, Tex, Aug. 2, 34; m; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Baylor, 56; univ. fel, Texas Christian, 61-62, M.A, 62, Nat. Sci. Found. fel, 63-64, Ph.D.(exp. psychol), 64. Res. asst, Inst. Behav. Res, 61-63; engr, LTV Aerospace Corp, 63-64, eng. specialist, 64-66; sr. staff scientist, LIFE SCI, INC, 66-67, V.PRES, 67- Lectr, Texas, Arlington, 64-; human factors consult, LTV Aerospace Corp, Collins Radio, Co, Texas Instruments Inc. & Melpar, Inc, 65- AAAS; Psychol. Asn; Human Factors Soc. Human learning; perception; engineering psychology; simulation; human capabilities in space environment; training and experimental methodology, including multivariate techniques. Publ: Co-auth, Pilot performance, transfer of training and degree of simulation, U.S. Naval Training Device Center, 67 & Rote learning as a function of similarity structure and task paradigm, J. Exp. Psychol, 67; auth, Using the null hypothesis in human engineering evaluations, Human Factors, 67. Address: 906 Austrian Rd, Grand Prairie, Tex. 75050.

ELLIS, PROF. NORMAN R, b. Springville, Ala, Sept. 14, 24; m. 53; c. 5. EXPERIMENTAL PSYCHOLOGY. A.B, Howard Col, 51; M.A, Alabama, 53; Ph.D.(psychol), La. State, 57. Asst. prof. psychol, Alabama, 54-55; staff psychologist, State Colony & Training Sch, La, 56-57, chief psychologist, 57-60; assoc. prof. PSYCHOL, George Peabody Col, 60-62, PROF, 62-64; ALABAMA, 64- Dir. res. prog. learning & memory in ment. retardates, Pub. Health Serv, 58-, Ph.D. training prog. exp. psychol, 65- Psychol. Asn; Asn. Ment. Deficiency (v.pres, 66, 67). Comparative research on differences between normal and retarded humans, learning and memory. Publ: Ed, Handbook of mental deficiency, McGraw, 63 & International review of research in mental retardation, Vols. I & II, 66, Vol. III, 68, Academic. Address: Dept. of Psychology, University of Alabama, Box 6223, University, Ala. 35486.

ELLIS, PROF. R(ICHARD) K(ARL), b. Iowa, Aug. 4, 97. ECONOMICS. A.B, Iowa Wesleyan Col, 20; Ph.D, Iowa, 30. Head dept. bus. ed, Ariz. State Col, Tempe, 30-31; sch. commerce, Xavier (Ohio), 31-32; dept. econ. & bus. admin, Iowa Wesleyan Col, 32-38, dean, 40-45, 48-52, bus. mgr. & treas, 45-48; from assoc. prof. to PROF. ECON. & BUS. ADMIN, WESTMINSTER COL.(MO), 52- Dir. res. & statist, State Dept. Soc. Welfare, Iowa, 38-40. Econ. Asn. Savings institutions and the growth of capital; business statistics. Address: Dept. of Economics & Business Administration, Westminster College, Fulton, Mo. 65251.

ELLIS, PROF. ROBERT A(RTHUR), b. Hudson, N.Y, May 31, 26; m. 50; c. 2. SOCIOLOGY. B.A, Yale, 52, M.A, 53; Ford Found. fel, 53-54, summer, Carnegie Found. grant, 54, fel. & Ph.D.(sociol), 56. From instr. to asst. prof. SOCIOL, Southern California, 55-57; asst. prof, Stanford, 57-60; assoc. prof, OREGON, 60-65, PROF, 65- Soc. Invest. Human Ecol. res. grant, 58; Soc. Sci. Res. Coun. grants-in-aid, 59-60; Nat. Inst. Ment. Health res. grant, 61-65; Carnegie Corp. res. grant, 61-65; Off. Ed. res. grant, 65-67; Air Force Off. Sci. Res. res. grant, 68-69; U.S. Pub. Health Serv. res. grant, 68-70. Summers, participant, behav. sci. res. conf, Air Force Off. Sci. Res, 58, vis. asst. prof, Mich. State, 59. Consult, prfnl. staff develop. prog, Agnews State Hosp, Calif, 58-60; Far West. Conf. Fulbright Scholars, 60. U.S.A, 46-48, 2nd Lt. Sociol. Asn. Social stratification; higher education. Publ: Co-auth, The index of class position: an improved intercommunity measure of stratification, 63, Structural supports for upward mobility, 63 & Social mobility and social isolation: a test of Sorokin's dissociative hypothesis of upward mobility, 67, Am. Sociol. Rev. Address: 1992 Fairmount Blvd, Eugene, Ore. 97403.

ELLIS, PROF. R(OBERT) S(IDNEY), b. Cordova, Tenn, Oct. 2, 90; m. 20; c. 3. PSYCHOLOGY. A.B, Arkansas, 11; N.Y. Univ, 12-13; Ph.D.(psychol), Clark, 14; Chicago, 15-16. Instr. psychol. & ed, W.Tenn. Nor. Sch, 14-15; acting prof, exten. dept, Ohio, 16-17; fel, Wistar Inst, 17-19; prof. philos. & psychol, Tennessee, 19-23; instr. PSYCHOL, Princeton, 23-24; asst. prof, Syracuse, 24-26, assoc. prof, 26-27; Colo. Col, 27-28, prof, 28-31; POMONA COL, 31-56, EMER. PROF, 56- AAAS. Mental growth; causes of fraternal twins; individual differences. Publ: Psychology of individual differences; Educational psychology. Address: 11768 Preston Lane, Yucaipa, Calif. 92399.

ELLIS, DR. WILLIAM W, b. Boley, Okla, July 9, 39; m. 62. POLITICAL SCIENCE. A.B, Oberlin Col, 61; Ph.D.(govt), N.Y. Univ, 66. Instr, POLIT. SCI, NORTHWESTERN, 65, ASST. PROF, 66- Polit. Sci. Asn; Sociol. Asn. International relations; comparative political systems; urban affairs; political behavior. Publ: An inventory of federal research in the behavioral sciences, 5/64, The federal government in behavioral science: fields, methods, and funds, 5/64 & co-auth, Africa and the United Nations: a statistical note, 4/65, Am. Behav. Scientist. Address: Dept. of Political Science, Northwestern University, Evanston, Ill. 60201.

ELLISON, DR. DAVID LEE, b. Ogdensburg, N.Y, July 10, 34; m. 54; c. 4. SOCIOLOGY. B.A, Cornell, 57; B.D, Union Theol. Sem, 61; M.S, Purdue, 63, Nat. Inst. Ment. Health & Nat. Sci. Found fels. & Ph.D.(sociol), 65. ASST. PROF. SOCIOL, SCH. LIB. ARTS & ASST. PROF. SOCIOL, DEPT. PSYCHIAT, SCH. MED, PITTSBURGH, 65- Sociol. Asn; Soc. Study Social Probs; Soc. Appl. Anthrop; Geront. Soc. Medical sociology, especially mental disorder; sociological theory. Publ: Alienation and the will to live of retired steelworkers, Proc. Int. Cong. Geront, 66. Address: Dept. of Sociology, School of Liberal Arts, University of Pittsburgh, Pittsburgh, Pa. 15213.

ELLSON, PROF. DOUGLAS G(EORGE), b. Stafford, Eng, July 12, 13; U.S. citizen; m. 34; c. 2. PSYCHOLOGY. A.B, Miami (Ohio), 35; Ph.D.(psychol), Yale, 39. Asst, Yale, 35-38; T.W. Stanford fel. psychical res, Stanford, 39-41; asst. prof. psychol, Mississippi, 41-42; soc. sci. analyst, bur. agr. econ, U.S. Dept. Agr, 42-43; res. psychologist, Nat. Defense Res. Cmt, Brown & Wisconsin, 43-45, from asst. prof. to assoc. prof. PSYCHOL, INDIANA, 45-49, PROF, 49-, chmn. dept, 48-58, dir. aviation psychol. proj, 46-50. Consult, Agency Int. Develop, 67. Fel. Psychol. Asn. Psychology of language; methodology; semantics; programmed learning and teaching. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47405.

ELLSWORTH, GLADYS W(ATERBURY), b. Conn, June 7, 05; m. 45. ECONOMICS, STATISTICS. B.S, Columbia, 29; M.A, N.Y. Univ, 43. Econ. analyst, Mutual Life Ins. Co, N.Y, 42-44; res. analyst, Standard Res. Consult. Corp, 44-46; CHIEF RES. & STATIST, N.J. STATE DEPT. CONSERV. & ECON. DEVELOP, 46- Econ. Asn; Statist. Asn. Population; housing; water supplies; employment. Address: New Jersey Dept. of Conservation & Economic Development, John Fitch Way, Trenton, N.J. 08625.

ELLSWORTH, HEBER M(ICHAEL), b. Rexburg, Idaho, Mar. 29, 07; m. 30; c. 7. ECONOMICS. B.B.A, Tex. Tech. Col, 32, M.B.A, 36. Mkt. & price analyst, Poultry Producers of Cent. Calif, 41-42; mkt. res. analyst, Moore Bus. Forms, Inc, 42-45; econ. & mkt. analyst, Safeway Stores, Inc, 46-47; MKT. ECONOMIST, BUR. MKT, STATE DEPT. AGR, CALIF, 48- Econ. Asn. Utilization, marketability and distribution of agricultural products. Publ: Improving the marketing of turkeys, 62; Expanding the market for California avocados, 63; Broadening the market for artichokes, 66. Address: 1933 Bidwell Way, Sacramento, Calif. 95818.

ELLSWORTH, DR. JOHN S(TOUGHTON), JR, b. Arlington, N.J, June 16, 07; m. 36; c. 3. SOCIOLOGY. A.B, Yale, 29, A.M, 46, Ph.D, 47. Reporter, Hartford Times, Conn, 29-33; pub. rel. counsel, Wm. H. Baldwin, New York, 35-37; exec. asst. & personnel mgr, Ensign-Bickford Co, Conn, 37-46; asst. prof. SOCIOL, YALE, 46-54, LECTR, 54-, CHMN. AUDIO-VISUAL CENTER, 60- Sociol. Asn. Industrial sociology. Publ: Factory Folkways. Address: Sterling Memorial Lab, Yale University, New Haven, Conn. 06520.

ELLSWORTH, DR. JOHN WILLIAM, b. Indianapolis, Ind, Aug. 14, 34; m. 56; c. 2. POLITICAL SCIENCE. B.A, Sacramento State Col, 58; M.A, Claremont Grad. Sch, 60, Ph.D.(govt), 63. Instr. soc. sci, Chaffey Col, 60-61; Imp. Valley Col, 61-63; asst. prof. polit. sci, Colorado State, 63-64; Calif. State Col. Hayward, 64-66; ASSOC. PROF. POLIT. SCI. & CHMN. FACULTY GOVT. & PUB. AFFAIRS, SOUTHERN ILLINOIS, 66- Mem, Midwest Conf. Polit. Sci. U.S.A.F, 53-57. Polit. Sci. Asn. Political theory and methodology of political science; American electoral behavior and public opinion. Publ: Operational and non-operational conceptions of liberty, Rocky Mt. Soc. Sci. Rev, 65; John Adams: the American revolution, Huntington Library Quart, 66; Rationality and campaigning, West. Polit. Quart, 66. Address: Faculty of Government, Southern Illinois University, Edwardsville, Ill. 62025.

ELLSWORTH, PROF. P(AUL) T(HEODORE), b. Rutland, Vt, Nov. 20, 97. ECONOMICS. A.B, Washington (Seattle), 20; Rhodes scholar, Oxford, 22-25, B.A, 24; A.M, Harvard, 30, Ph.D, 32. Instr, Dartmouth Col, 25-26; asst. prof, Reed Col, 26-27; instr. & tutor, Harvard, 28-32; assoc. prof. ECON, Cincinnati, 32-40; prof, Wisconsin, 44-67; VIS. PROF, CALIFORNIA, RIVERSIDE, 67-68. Sr. econ. analyst, U.S. Treas. Dept, 35-36; Guggenheim Mem. Found. fel, 41-42; vis. prof, California, 49; chief economist, Bd. Econ. Warfare, 42-43; econ. adv, U.S. Dept. State, 43-44; spec. adv, Int. Bank Reconstruction & Develop, 51-52, chief econ. surv. mission, Thailand, 57-58; vis. prof, Hawaii, 63-64; U.N. tech. expert, Nat. Planning Bd, Ecuador, 64-65. Econ. Asn.(v.pres, 53); Royal Econ. Soc. International economic relations; economic development. Publ: International economics; Chile, an economy in transition; International economy. Address: Dept. of Economics, University of California, Riverside, Calif. 92502.

ELLSWORTH, DR. ROBERT B, b. Idaho Falls, Idaho, Mar. 20, 28; m. 49; c. 4. CLINICAL PSYCHOLOGY. B.S, Utah State Col, 49, M.A, 50; Ph.D, Pa. State Col, 53. Clin. psychol. trainee, Idaho State Hosp, 50; clin. psychol. trainee, Vet. Admin. Hosp, Perry Point, 52, clin. psychologist, Ft. Douglas Vet. Admin. Hosp, Salt Lake City, Utah, 53-58; RES. PSYCHOLOGIST, Ft. Meade Vet. Admin. Hosp, 58-62; VET. ADMIN. HOSP, ROSEBURG, ORE, 62- Drug therapy evaluation; treatment of chronically hospitalized schizophrenics. Publ: Nonprofessionals in psychiatric rehabilitation, Appleton; Effects of chemotherapy on length of stay and rate of return for psychiatrically hospitalized patients, J. Consult. Psychol; MACC behavioral adjustment scale, West. Psychol. Servs. Address: Veterans Administration Hospital, Roseburg, Ore. 97470.

ELLWOOD, PROF. VIRGIL G, b. Beatrice, Nebr, Aug. 10, 11; m. 37; c. 2. ECONOMICS. B.S, North. State Teachers Col, 58, M.S, 59; summers, Nebraska, 60, Colo. State Col, 61-62, Mich. State, 63, Colorado, 63-65. Economist, regional off, Off. Price Admin, Tex, 42-46, 51-53; self-employed, 46-51; salesman, Burghardt Radio Supply, S.Dak, 53-55; Lew Bonn Co, Minn, 55-56; teacher, pub. schs, S.Dak, 59-60; ASST. PROF. ECON, NORTH. STATE COL, 60- Econ. Asn. International trade blocs. Address: Dept. of Social Science & Business, Northern State College, Aberdeen, S.Dak. 57401.

ELMAGHRABY, DR. SALAH E(LDIN), b. Fayoum, Egypt, Oct. 21, 27; m. 57; c. 1. INDUSTRIAL ENGINEERING, OPERATIONS RESEARCH. B.Sc, Cairo, Egypt, 48; M.Sc, Ohio State, 55; Ph.D.(indust. eng), Cornell, 58. Instr. mech. eng, Cairo, Egypt, 49; inspection engr, Egyptian State Rwys, 49-54; asst. indust. statist, Cornell, 55-58; sr. res. engr. systs. eng, res. center, West. Elec. Co, Inc, 58-60, res. leader, 60-62; assoc. prof. indust. admin, Yale, 62-67; PROF. OPERS. RES. & INDUST. ENG, & CHMN. OPERS. RES. CMT, N.C. STATE, 67- Statist. Asn; Opers. Res. Soc; Inst. Indust. Eng; Inst. Mgt, Sci; Soc. Indust. & Appl. Math. Design and implementation of integrated production control systems utilizing the new technology of computers and recent advances in mathematical theory; theory of sequencial decisions; theory of networks. Publ: The design of production systems, Reinhold, 66; Approach to linear programming under uncertainty, J. Opers. Res. Soc. Am; Allocation under uncertainty when the demand has a continuous d.f, Mgt. Sci. Address: North Carolina State University, P.O. Box 5518, Raleigh, N.C. 27607.

EL MALLAKH, PROF. RAGAEI WILLIAM, b. Tanta, Egypt, Mar. 5, 25; m. 62. ECONOMICS, INTERNATIONAL RELATIONS. B.A, Cairo, 47, adv. econ. studies degree, 49; M.A, Rutgers, 51, Ph.D.(econ), 55. PROF. ECON, COLORADO, 56- Fel, Center Mid. East Studies, Harvard, 55-56; grants, Rockefeller Found, 61-62; Soc. Sci. Found, grad. sch. int. studies, Denver Univ, 65-66 & Soc. Sci. Res. Coun, 66. Econ. consult, Africa Dept, Int. Bank Reconstruct. & Develop, D.C, 62-63; consult, soc. sci. found, grad. sch. int. studies, Denver, 65-66. Econ. Asn; Mid. East Inst; Soc. Int. Develop. Economic development and planning; Middle East economics; African economics. Publ: Co-auth, The Arab nation: paths and obstacles to fulfillment, Mid. East Inst, 61; auth, Foreign aid, Challenge, 12/64 & Planning in a capital surplus economy: Kuwait, Land Econ, 11/66. Address: Dept. of Economics, University of Colorado, Boulder, Colo. 80302.

ELMENDORF, PROF. WILLIAM W(ELCOME), b. Victoria, B.C, Sept. 10, 12; U.S. citizen; m. 40; c. 2. ANTHROPOLOGY. B.A, Washington (Seattle), 34, M.A, 35; fel, California, 40-42, Ph.D.(anthrop), 49. Acting instr. ANTHROP, Washington (Seattle), 46-47, instr, 47-50, asst. prof, 52-57; assoc, Northwestern, 50-51; lectr, Washington State, 57-59, asst. prof, 59-61, assoc. prof, 61-64; lectr, WISCONSIN, 63-64, PROF, 64- Nat. Sci. Found. summer grants, 62-64. U.S.A, 42-46, 51-53, Capt. Anthrop. Asn; Ethnol. Soc; Ling. Soc. Ethnography and linguistics of North American Indians; Oceania; linguistic and cultural change processes. Publ: The structure of Twana culture, 60 & Skokomish tales, 61, Washington State Univ; Problems in regrouping of Powell units, Can. J. Ling, 65. Address: Dept. of Anthropology, University of Wisconsin, Madison, Wis. 53706.

ELMER, DR. EVELYN ELLIS, Sociol, see 10th ed, Soc. & Behav. Vols.

ELMER, PROF. GLAISTER A(SHLEY), b. Minneapolis, Minn, Oct. 15, 21; m. 54. SOCIOLOGY. B.A, Pittsburgh, 46, M.A, 47; Ph.D.(sociol), Ohio State, 50. Res. soc. scientist, human resources res. inst, U.S. Dept. Air Force, 50-51, dir. res, Far East Res. Group, Air Univ, 51-53; asst. prof. soc. sci, Mich. State, 53-55; air defense force rep, systs. develop. div, Rand Corp, 55-56, Syst. Develop. Corp, 56-58, mgr. semiautomatic ground envir. training & prog. test facilities, Kans, 58-59; mgr. applns. eng. for training & simulation systs, Ramo-Wooldridge, 60-61; opers. planner, spec. projs, Lockheed Missile & Space Co, 61-62, scientist, 61-62 & 64-65, consult. command & control, Lockheed-Ga. Co, 64-65; design, Gen. Elec. Co, 62-63; gen. mgr. plans & systs, Aereon Corp, 65-66; PROF. SOCIOL, EAST TENN. STATE, 66- Consult, Air Univ. & Far East Air Force, 51-52. U.S.A.A.F, 42-46. Psychol. Asn; Sociol. Asn: Mgt. Asn; Asn. Comput. Mach. Systems management, integration and design; research design and administration. Publ: Industrial sociology, J. Econ. Soc; Identification as a social concept, Sociol. & Soc. Res; Maintaining rapport necessary for reliability in industrial research, Am. Soc. Rev. Address: 1916 N. Roan St, Johnson City, Tenn. 37601.

ELMER, PROF. M(ANUEL) C(ONRAD), b. Monroe, Wis, Dec. 5, 86. SOCIOLOGY. B.S, Northwestern Col, 11; A.M, Illinois, 12; Ph.D, Chicago, 14. Prof. sociol. & econ, Fargo Col, 14-16; assoc. prof. sociol. & dir. soc. survs, Kansas, 16-19; assoc. prof. sociol. & soc. work, Minnesota, 19-26; PROF. SOCIOL. & HEAD DEPT, PITTSBURGH, 26-, dir. grad. div. soc. work, 32-38. Whitney vis. prof, West. Col, 58-59; vis. prof, Samford, 63-64. Sociol. Asn. Social survey of urban communities; technique of social surveys; sociology of the family. Publ: Contemporary social thought; Timber, America's magic resource; Passing of the red tablecloth, Univ. Pittsburgh, 67. Address: 427 Elmer St, Pittsburgh, Pa. 15218.

ELMER, VICTOR FRANCIS, O.F.M, Sociol, see 10th ed, Soc. & Behav. Vols.

ELMES, DR. DAVID G(ORDON), b. Newton, Mass, Feb. 15, 42; m. 63; c. 2. B.A, Virginia, 64, DuPont fel, 64-65, Nat. Inst. Ment. Health fel, 65-67, M.A, 66, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, WASHINGTON & LEE, 67- Animal and human learning; short-term memory. Publ: The role of frustration in extinction of a running response, Psychonomic Sci, 64; co-auth, Paired-associate learning as a function of meaningfulness and presentation method, Va. J. Sci, 65; Meaningfulness and presentation method in paired-associate learning, J. Verbal Learning & Verbal Behav, 67. Address: Dept. of Psychology, Washington & Lee University, Lexington, Va. 24450.

ELMOTT, DR. CHARLOTTE D(ICKINSON), b. Corona, Calif, Nov. 19, 06; m. 34. PSYCHOLOGY. B.A, Pomona Col, 26; Radcliffe Col, 26-27; M.A, Claremont Col, 35; Harvard, summer 28; Ed.D, Stanford, 44. Head dept. Eng, Marlborough Sch. Girls, 27-34; clin. psychologist, State Bur. Juvenile Res, Calif, 34-35; dir. child guid, pub. schs, Calif, 35-53, sec. ed, 53-56, asst. supt. of instr, 56-57, res. dir. psychol, spec. guid. proj, 58-62; State Cmt. Older Girl & Law, Calif, 57-58; dir. res. & training, Devereux Found, 61-64, prof. psychol. & dean women, Pitzer Col, 64-67; HEADMISTRESS, DEVEREUX SCH. CALIF, 67- Mem. staff, Inst. Ed. Leadership, Japan, 48-49; dir, workshop ed. gifted, San Francisco State Col, 52; mem, seminar Christian founds. pub. sch. teaching, Union Theol. Sem, 56. Consult, workshops child guid, Int. Coop. Admin, B.W.I, 61. Mem. Gov. Adv. Cmt. Children & Youth, 43-60. Del, White House Conf. Children & Youth, 50-60. Psychol. Asn. Education; juvenile delinquency; prevention of behavior and personality disorders of children. Publ: Girls and young women in conflict with the law in California; The troublesome ten percent; Personality insurance for every child. Address: Devereux Schools, P.O. Box 1079, Santa Barbara, Calif. 93102.

ELMS, DR. ALAN C(LINTON), b. Gorman, Tex, Dec. 15, 38; m. 62; c. 2. PSYCHOLOGY. B.A, Pa. State, 60; Woodrow Wilson fel, Yale, 60-61, U.S. Pub. Health Serv. fel, 61-64, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, Southern Methodist, 64-67; CALIFORNIA, DAVIS, 67- Coun. Humanities faculty res. fel, 65-66. Psychol. Asn; Soc. Psychol. Study Social Issues. Attitude formation and change; psychology of political behavior; creativity. Publ: Influence of fantasy ability on attitude change through role playing, J. Personality & Soc. Psychol, 66; Personality characteristics of subjects obedient or defiant toward authoritative command, J. Exp. Res. Personality, 66; Role playing, incentive and dissonance, Psychol. Bull, 67. Address: Dept. of Psychology, University of California, Davis, Calif. 95616.

ELNICKI, DR. RICHARD ANTHONY, b. DuBois, Pa, Apr. 30, 38; m. 65; c. 1. CONTROL & INFORMATION SYSTEMS. B.S, Pa. State, 60, M.S, 62; D.B.A. (control), Harvard, 67. ASST. PROF. ACCT, YALE, 66- Direction and control systems; medical care economics and third-party reimbursement systems. Address: Yale University, 1905-A Yale Station, New Haven, Conn. 06520.

ELONEN, PROF. ANNA S(IVIA), b. Finland, Feb. 25, 04; nat. PSYCHOLOGY. A.B, Lawrence Col, 25; A.M, Minnesota, 27; Ph.D.(psychol), Chicago, 48. Psychol. exam, Minn. Bd. of Control, 27-37; asst. prof. PSYCHOL, Chicago, 37-50; PROF, MICHIGAN, 50- Fulbright lectr, Finland, 53-54; Fulbright res. fel, 58-59; Foundations Fund res. in psychiat. grant, 66. Consult, Vet. Admin, 51-; Mich. Sch. for Blind, 61-66; Plymouth Training Sch, 67- Mem. Coun. Except. Children. Psychol. Asn; Soc. Res. Child Develop; Orthopsychiat. Asn; Asn. Ment. Deficiency. Brain damage; differential diagnosis; development of intelligence and personality in disabled children, especially blind; performance scale for children in Finland; adoption. Publ: Co-auth, A study of intellectual functions in children by means of the KTK performance, Univ. Jyvaskyla, 63; Diagnostic evaluation of treatment of deviant blind children, Am. J. Orthopsychiat, 64 & Appraisal of developmental lag in certain blind children, Pediatrics, 65. Address: 2460 Glacier Way, Ann Arbor, Mich. 48105.

ELPERIN, PROF. RONALD H(ERMAN), b. Rochester, N.Y, Apr. 24, 13; m. 43; c. 2. ECONOMICS. B.A, Wisconsin, 39, M.A, 50, Ph.D.(econ), 54; London Sch. Econ, 51-52. Instr. econ, Wisconsin, 48-51; asst. prof, Ark. Polytech. Col, 52-53; assoc. prof. econ. & sociol, Lakeland Col, 54-58; asst. prof. ECON, INDIANA STATE, 58-66, PROF, 66- Ford Found. grant nonwestern area studies, Indiana Univ, 65-66. U.S.A, 42-44. Econ. Asn; Indust. Rels. Res. Asn; Int. Indust. Rels. Asn. Labor relations; nationalized industries; economic planning; comparative labor movements. Address: Dept. of Economics, Indiana State University, Terre Haute, Ind. 47809.

ELSASSER, DR. ALBERT BERTRAND, b. San Francisco, Calif, June 7, 18; m. 50; c. 1. ANTHROPOLOGY. A.B, California, Berkeley, 50, M.A, 60, Ph.D.(anthrop), 65. Res. archaeologist, CALIFORNIA, BERKELEY, 52-65, ASST. RES. ANTHROPOLOGIST, 65- U.S.A.A.F, 40-45, S/Sgt. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol. Western North American prehistory; physical anthropology; ethnobotany. Publ: The archaeology of the Sierra Nevada in California and Nevada, Univ. Calif. Archaeol. Surv. Reports, 60; co-auth, Art of the Northwest coast, 65 & Ancient Egypt, 66, Robert H. Lowie Mus. Anthrop. Address: R.H. Lowie Museum of Anthropology, University of California, Berkeley, Calif. 94720.

ELSASSER, ROBERT W(ILLIAM), b. New York, N.Y, Mar. 10, 00; m. 22. ECONOMICS. A.B, Dartmouth Col, 21, M.C.S, 22. Instr. econ, Dartmouth Col, 21-22, 24-26; mem. staff, Eastman Kodak Co, 22-24; prof. mgt, econ. & bus. statist, Tulane, 26-42; v.pres. & gen. mgr, Pendleton Shipyards Co, Inc, 42-46; MGT, ECON. & STATIST, ANALYST, 47- Spec. asst. to endowment cmt, Tulane Ed. Fund, 46-47; sect. leader, Sch. Banking of the South, 50- Trustee, Cmt. Econ. Develop. Econ. Asn; Statist. Asn; Soc. Adv. Mgt; Mgt. Asn; Am. Acct. Asn; fel. Acad. Mgt. Management use of fact and principle; variation in standards for control; tax incidence. Address: 833 Howard Ave, New Orleans, La. 70113.

ELSBREE, DR. HUGH L(ANGDON), b. Preston Hollow, N.Y, Feb. 24, 04; m. 43; c. 1. POLITICAL SCIENCE. A.B, Harvard, 25, M.A, 27, Ph.D, 30; Sheldon traveling fel, 27-28. Instr. & tutor govt, Harvard, 28-33; asst. prof. polit. sci, Dartmouth Col, 33-37, prof, 37-43, chmn. dept, 37-41; prin. bus. economist, Off. Price Admin, 43-45; admin. analyst, U.S. Bur. Budget, 45; sr. specialist Am. govt. & pub. admin, Library Cong, 46-57, mem. res. counsel, legis. reference serv, 45-46, acting asst. dir, 51-52, dep. dir, 55-57; chmn. polit. sci. dept, Wayne State, 57-58; dir. legis. reference serv, Library Cong, 58-66; CONSULT. ED, PRAEGER LIBRARY U.S. GOVT. DEPT. & AGENCIES, 66- Res. specialist, Fed. Power Cmn, 34; dep. res. dir, Cmn. Intergovt. Rels, 54-55. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; legislation; federalism. Publ: Interstate transmission of electric power. Address: 64 Harbor Rd, Hyannis, Mass. 02601.

ELSBREE, DR. WILLARD HUBBARD, b. Preston Hollow, N.Y, Dec. 25, 20. POLITICAL SCIENCE. A.B, Harvard, 41, fel, 49-51, Ph.D, 52. Instr. GOVT, OHIO, 52-53, asst. prof, 53-57, assoc. prof, 57-66, PROF, 66-, CHMN. DEPT, 63- U.S.N, 42-46, Lt. Polit. Sci. Asn; Asn. Asian Studies. Development of nationalist movements; institutions of representative government in Southeast Asia and Japan. Publ: Japan's role in Southeast Asian nationalist movements. Address: Dept. of Government, Ohio University, Athens, Ohio 45701.

ELSDON, PROF. CYRIL L(ORME), b. Pittsburgh, Pa, Aug. 16, 04. ECONOMICS. B.S, Pittsburgh, 28, Ph.D, 44; M.S, Columbia, 30; Harvard, 35-36; California, Los Angeles, 60. Pub. acct, Main & Co, 30-31; Price, Waterhouse & Co, 31-32; private practice, 32-33; asst. to pres, O. Hommel Co, Pa, 34-36; asst. to chief acct. & statistician, City Bd. Pub. Ed, Pittsburgh, Pa, 36-46; bus. mgr. & lectr, Adelphi Col, 46-47; PROF. ACCT, GROVE CITY COL, 47-, CHMN. DEPT. BUS. ADMIN, 57- Lectr, Am. Inst. Banking, 49-53; State Dept. Pub. Instr, Pa, 58-59. Asn. Sch. Admin. Manual of procedure for the auditing of internal school accounts. Address: Dept. of Business Administration, Grove City College, Grove City, Pa. 16127.

ELSON, DR. IRVING R, b. New York, N.Y, May 3, 10; m. 43; c. 1. SOCIOLOGY, SOCIAL WORK. B.A, New Sch. Soc. Res, 47; M.A, State Univ. N.Y. 50, Ph.D.(sociol), 53. TEACHER health ed, BD. ED, NEW YORK, 36-38, adult ed, 46-57, ELEM. SCH, 67- Instr, New Sch. Soc. Res, 48-60; supvr, Youth Bd, New York, 60-61; prog. dir, Children's Center, 61-62; exec. dir. soc. work, Stapleton Community Center, 62-67; exec. dir. sociol, East. Res. & Planning Coun, 62-; exec. v.pres. qual. control, Madison Park Res. & Planning Corp, 62- Am. Sociol. Asn; Int. Sociol. Asn. Economics; demography; social work; community organization; group work; recreation; physical education. Publ: Recreation and the individual, Nat. Recreation Therapists, 56. Address: 14 Duncan St, Staten Island, N.Y. 10304.

ELTERICH, DR. G(USTAV) JOACHIM, b. Dresden, Germany, May 22, 30; m. 61; c. 2. AGRICULTURAL ECONOMICS. Dipl. agr, Bonn, 56; Copenhagen, 54; M.S, Kentucky, 60; Ph.D.(agr. econ), Mich. State, 64. Res. asst. agr. econ, Mich. State, 64; teaching assoc. agr. econ. & researcher, Bonn, 64-67; ASST. PROF. AGR. ECON, DELAWARE, 67- Agr. Econ. Asn; Econ. Asn. Agricultural labor markets; supply analysis of agricultural production; production function research; structural change and adjustments in agriculture; programming of farms. Publ: Sr. auth, Perspective on Michigan's farm labor problems, Agr. Exp. Sta, Mich. State Univ, 63; auth, Quantitative Methoden in den Wirtschafts-und Sozialwissenschaften des Landbaues, Schriften Gesellschaft Wirtschafts-und Sozialwissenschaften Landaues e.V, Vol. 4, 67. Address: Dept. of Agriculture & Food Economics, University of Delaware, Newark, Del. 19711.

ELTON, DR. CHARLES FOWLER, b. Holland, Mich, Sept. 25, 20; m. 43; c. 2. PSYCHOLOGY. A.B, Ohio State, 47, M.A, 48, Ph.D, 51. Asst. prof. psychol. & head dept, Birmingham-South. Col, 51-53; assoc. prof. psychol. & ed. & dir. counseling serv, Mississippi, 53-56; dir. counseling serv, KENTUCKY, 56-57, assoc. prof. psychol. & ed, dean admissions & registr, 57-66, ASST. TO EXEC. V.PRES, 66- Consult, Vet. Admin. Hosp, 58- U.S.A, 43-45. Psychol. Asn. Evaluation of university administration. Publ: Co-auth, Traditional sex attitudes and discrepant ability measures in college women, 67, Significance of personality in vocational choice of college women, 67 & Face of change, (in press), J. Counseling Psychol. Address: 241 Barberry Lane, Lexington, Ky. 40503.

ELVEKROG, DR. MAURICE OLIVER, b. Minneapolis, Minn, Aug. 10, 34; m. 61; c. 3. PSYCHOLOGY. B.A, Col. St. Thomas, 56; Ph.D.(psychol), Minnesota, 64. Staff psychologist, Cambridge State Hosp, Minn, 59-64, chief psychologist, res. coordinator & dir. in-serv. training, 64-66; CONSULT. PSYCHOLOGIST, ROHRER, HIBLER & REPLOGLE, 66- Psychol. Asn. Response styles in objective personality testing; learning in retardates; behavior modification; human effectiveness; group organization and management. Address: 1530 Guardian Bldg, Detroit, Mich. 48226.

ELWELL, PROF. HARRY H(OWARD), JR, b. El Dorado, Kans, July 1, 21; m. 47; c. 3. MARKETING. B.B.A, Texas, 47, M.B.A, 49; Ph.D.(bus), Illinois, 60. Instr. mgt, Texas, 46-50; asst. prof. & head dept, Wichita, 56-57; instr. mkt, Illinois, 57-60; assoc. prof. MKT. & MGT, Fla. State, 60-67; PROF, TEX. TECH. COL, 67- Mem, exec. develop. prog. & price res, Boeing Airplane Co, 56-57; sales & cost studies, Mayflower Warehousemens Asn, 58-59, sales & cost studies, Enjay Chem. Co, Inc, 61; econ. proj. War Col. Nonresident Prog, Air Univ, 61-63; surv. printing procedures & mat, Fla. Develop, Cmn, 63; data & info. mgt. syst. audit, Fed. Systs. Div, I.B.M. Corp, Fla, 66; computer consult, Fla. Cmn. on Aging, 67. U.S.A.F, 42-46, Res, 51-, Lt. Col. Mkt. Asn. Systems theory and information management; business simulation and computer applications; marketing research and product pricing strategy; sales and cost analysis, particularly theory and practice in market potentials. Publ: Co-auth, Computer users reference encyclopedia, with glossary of computer terminology, Bills Bookstore, Fla, 67; auth, Developing industry sales potential indices from demand determinant studies, South. J. Bus, 4/66; Data and information management systems, Mgt. Serv, 11-12/67. Address: Dept. of Marketing, School of Business Administration, Texas Technological College, Lubbock, Tex. 79409.

ELWOOD, DR. MARY I(SABEL), b. Leechburg, Pa, Apr. 21, 09. PSYCHOLOGY. A.B, Pittsburgh, 29, A.M, 30, Ph.D.(psychol), 34. Asst. psychol, Pittsburgh, 29-31; psychologist, PITTSBURGH PUB. SCHS, 31-62, chief psychologist, 62-65, ASST. DIR. PUPIL SERV, 65- Lectr, Pittsburgh, 46- Mem, Coun. Except. Children. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Clinical psychology; tests and measurements. Address: Board of Public Education, 341 S. Bellefield Ave, Pittsburgh, Pa. 15213.

ELY, EDWIN W(ILLIAM), b. New York, N.Y, Dec. 1, 91; m. 22; c. 2. INDUSTRIAL ADMINISTRATION. B.S, St. Stephen's Col, 14, hon. M.A, 17. Field mgr, Standard Oil Co.(N.Y), E.India, 20-22; teacher physics & chem, Columbia Prep. Sch, 22; prod. analyst, Thomas A. Edison, 22-23; technologist, div. simplified practice, Nat. Bur. Standards, 23-29, chief, 29-47; commodity standards div, U.S. Dept. Commerce, 47-50, Off. Indust. & Commerce, 50-53, Off. Tech. Serv, Bus. & Defense Serv. Admin, 53-59; RETIRED. Chief, simplification br, bur. indust. conserv, Off. Price Mgt, 41-42. Consult, War Prod. Bd, 43-45; Mutual Security Agency, 51-52; For. Opers. Admin, 53-54; Int. Coop. Admin, 55- Mem. U.S. del, meeting experts in tech. standards, Inter-Am. Econ. & Soc. Coun, Brazil, 57. U.S.A, 17-19. Soc. Mech. Eng. Simplified practice; reducing costs of manufacturing and marketing; manufactured-product simplification and standardization. Address: 1725 Juniper St. N.W, Washington, D.C. 20012.

ELY, DR. JEROME H, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

ELY, DR. J(OSEPH) EDWARD, b. Brooklyn, N.Y, July 11, 07; m. 47; c. 4. ECONOMIC STATISTICS. B.S, Wesleyan, 30, M.A, 31; Ph.D, Yale, 40. Statistician, Railroad Retirement Bd, Nat. Recovery Admin, Bur. Labor Statist. & U.S. Treasury Dept, 34-41; asst. chief, for. trade div, U.S. BUR. CENSUS, 41-43, chief, 43-63, ADV, BUR. STATIST, Govt. Cyprus, 63-64, Govt. Malawi, 64-66, GOVT. W.PAKISTAN, 66- Consult, Supreme Comdr. Allied Powers, Japan, 46; statist. off, UN, 52. Econ. Asn; fel. Statist. Asn. International trade. Publ: Strategy of raw materials; Government statistics for business use; co-auth, International trade statistics. Address: Bureau of Statistics, U.S. Bureau of the Census, Washington, D.C. 20233.

ELY, DR. ROLAND T(AYLOR), Econ, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ELZINGA, DR. KENNETH G, b. Coopersville, Mich, Aug. 11, 41; m. 67. ECONOMICS. B.A, Kalamazoo Col, 63; Woodrow Wilson fel, Mich. State, 63-64, Grad. Coun. fel, 64-65, M.A, 66, Ph.D.(econ), 67. ASST. PROF. ECON, VIRGINIA, 67- Econ. Asn. The economic impact of the federal antimerger law; the economics of predatory pricing; the level of competition in the beer industry. Publ: Antitrust and the new industrial state, Southwest. Soc. Sci. Quart, 6/68; The antimerger law: pyrrhic victories, J. Law & Econ, 10/68. Address: Dept. of Economics, University of Virginia, Charlottesville, Va. 22901.

EMBER, DR. MELVIN, b. Brooklyn, N.Y, Jan. 13, 33; m. 54; c. 2. SOCIAL ANTHROPOLOGY. A.B, Columbia Col, 53; univ. fel, Yale, 53-55, Tri-Inst. Pac. Prog. fel, 55-56, Jr. Sterling fel, 56-57, Ph.D.(anthrop), 58. Soc. Sci. Res. Coun. fel. anthrop, Yale, 57-58, res. assoc, human rel. area files, 58-59; res. anthropologist, lab. socio-environ. studies, Nat. Inst. Ment. Health, 59-63, mem. faculty, grad. prog, Nat. Insts. Health, 61-63; from asst. prof. to ASSOC. PROF. ANTHROP, Antioch Col, 63-67; HUNTER COL, 67-, CHMN. DEPT, 68- Lectr, American Univ, 61; Nat. Sci. Found. res. grant cross-cultural studies marital residence, 66-67. Fel. AAAS; fel. Anthrop. Asn. Polynesia; kinship and marriage; warfare. Publ: The emergence of neolocal residence, N.Y. Acad. Sci, 67; Taxonomy in comparative studies, In: A handbook of method in cultural anthropology, Doubleday, 68; The relationship between economic and political development in nonindustrialized societies, Ethnology, 63. Address: Dept. of Anthropology, Hunter College, 695 Park Ave, New York, N.Y. 10021.

EMBODY, DANIEL R(OBERT), Statist, see Suppl. II & IV to 11th ed, Phys. & Biol. Vols.

EMBREE, PROF. ROBERT ARTHUR, b. Anselmo, Nebr, Sept. 11, 27; m. 50; c. 2. PSYCHOLOGY. B.A, Westmar Col, 51; B.D, United Theol. Sem, 54; M.A, Omaha, 57; Ph.D.(counseling psychol), Denver, 64. Instr. PSYCHOL, WESTMAR COL, 58-60, asst. prof, 61-64, assoc. prof, 65-67, PROF, 68-, CHMN. DEPT, 64- Proj. dir, instr. sci. equip. prog, Nat. Found. grant, 66-68. U.S.A, 47. Psychol. Asn; Soc. Sci. Study Relig. Scientific study of religion from a psychological point of view. Address: Dept. of Psychology, Westmar College, Le Mars, Iowa 51031.

EMBREE, PROF. ROYAL B(URDICK), JR, b. Bristol, Va, May 20, 09; m. 33; c. 2. PSYCHOLOGY. B.A, Washington & Lee, 29; M.A, Ohio State, 30; Ph.D.(ed. psychol), Minnesota, 47. Instr. psychol, Shenandoah Col, 30-33; psychologist, Conn. Sch. for Boys, 33-35; dir. guid, univ. high sch, Minnesota, 35-38, res. counsr, gen. col, 38-41; dir. counseling, Col. William & Mary, 41-47; asst. dir. testing & guid. bur, TEXAS, AUSTIN, 47-51, assoc. prof. PSYCHOL, 51-60, PROF, 60- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N, 43-46. Fel. Psychol. Asn; Personnel & Guid. Asn. Techniques and evaluation of counseling; selection and guidance of students in professional training programs. Address: V. Hall, 101-A, University of Texas, Austin, Tex. 78712.

EMCH, PROF. DONOVAN FRANK, b. Woodville, Ohio, Oct. 25, 07; m. 32; c. 1. POLITICAL SCIENCE. B.A, Toledo, 29; M.A. & cert. pub. admin, Cincinnati, 31. Instr. POLIT. SCI, TOLEDO, 31-38, asst. prof, 38-43, ASSOC. PROF, 43- Polit. Sci. Asn; Soc. Pub. Admin. Municipal government. Publ: Toledo, taxes and relief, 1939 Nat. Munic. Rev, 40; Effects of tax limitation in Ohio, In: Property taxes, 40; co-auth, Home rule and local government in Ohio, In: An analysis and appraisal of the Ohio constitution, 51. Address: Dept. of Political Science, College of Arts & Sciences, University of Toledo, Toledo, Ohio 43606.

EMDE, DR. ROBERT N, b. Orange, N.J, Apr. 29, 35; m. 60; c. 3. PSYCHIATRY. A.B, Dartmouth Col, 56; M.D, Columbia, 60. Chief west. div, Colo. State Hosp, Pueblo, 64-65, prin. psychiat, investr, 65-66; ASST. PROF. PSYCHIAT, MED. CENTER, COLORADO, 67-, instr, 65-66. Res. career develop. award, 67- Consult, Colo. State Hosp, Pueblo, 66- Colo. neuropsychiat. prize, 65. AAAS; Psychiat. Asn; Soc. Res. Child Develop. Community psychiatry; child development; clinical psychiatry; psychoanalysis. Publ: Co-auth, The smiling response. I Methodology, quantification and natural history, 139: 103-109 & II Visual discrimination and the onset of depth perception, 139: 407-415, J. Nerv. & Ment. Diseases; An EEC-behavioral study of sodium hydroxybutyrate in humans, Electroencephalog. & Clin. Neurophysiol, 20: 505-512. Address: Dept. of Psychiatry, University of Colorado School of Medicine, Denver, Colo. 80210.

EMENHISER, DR. JeDON A(LLEN), b. May 19, 33; U.S. citizen; m. 54; c. 1. POLITICAL SCIENCE. B.A, Redlands, 55; Ph.D.(polit. sci), Minnesota, 62. Instr. govt, Redlands, 59-60; polit. sci, Utah State, 60-62, asst. prof, 62-64; Fulbright prof, Saigon, 64-65; res. dir. legis. study cmt, Legis. State Utah, 66; ASSOC. PROF. POLIT. SCI, UTAH STATE, 66-, ACTING HEAD DEPT, 67- Nat. Sci. Found. grant summer conf. math. appln. polit. sci, 64. Legislative process; political parties; public opinion. Publ: Armed politics, Univ. Microfilms, 62; Utah's governments, N-P Pubns, 64; Utah's legislative politics, In: Legislative politics in the Rocky Mountain West, Univ. Colorado, 67. Address: Dept. of Political Science, Utah State University, Logan, Utah 84321.

EMENY, DR. BROOKS, b. Salem, Ohio, July 29, 01. INTERNATIONAL RELATIONS. A.B, Princeton, 24; Sorbonne, 24-25; London, 25-26; Konsular Acad, Austria & Univ. Madrid, Spain, 26-27; Ph.D, Yale, 34. Instr. govt, Yale, 27-31, res, 31-33; res. & writing, D.C, 33-35; assoc. prof. int. rels, Cleveland Col, Western Reserve, 35-43; pres, Coun. on World Affairs, 43-47; FOR. POLICY ASN-WORLD AFFAIRS CENTER, 47-52, MEM. BD. & COUN. ON FOR. RELS, 34- Dir, For. Affairs Coun, Ohio, 35-43; Atlantic Coun. U.S, 62- Consult, U.S. Dept. State. Am. del, Inst. Pac. Rels, Tokyo, 35, Yosemite, 36, Virginia Beach, 39, Mt. Tremblant, Que, Can, 42, Hot Springs, Va, 45. Geog. Soc; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Publ: Great powers in world politics; Price of peace; Mainsprings of world politics. Address: 221 Elm Rd, Princeton, N.J. 08540.

EMERICK, DR. RICHARD GIBBS, b. Syracuse, N.Y, June 15, 26; m. 52; c. 1. ANTHROPOLOGY. B.A, Syracuse, 50; M.A, Pennsylvania, 54, Ph.D.(anthrop), 60. Dist. anthropologist, Ponape Dist, Trust Territory, Pac. Islands, 55-56, asst. staff anthropologist, 57-58; instr, Bowdoin Col, 58; asst. prof. ANTHROP, MAINE, 58-67, ASSOC. PROF. & DIR. ANTHROP. MUS, 67- U.S.N, 43-46; U.S.M.C, 51-52. Anthrop. Asn; Soc. Appl. Anthrop. General ethnology; culture change; Arctic archaeology; race relations. Publ: Land tenure in the Marianas; Riparian rights of Ponape; The Hacasupais, people

of Cataract Canyon, Pa. Mus. Bull. Address: Dept. of Sociology & Anthropology, University of Maine, Orono, Maine 04473.

EMERSON, PROF. RUPERT, b. Rye, N.Y, Aug. 20, 99; m. 25; c. 4. POLITICAL SCIENCE. A.B, Harvard, 21; Ph.D, London Sch. Econ, 27. Instr. GOVT, HARVARD, 27-31, asst. prof, 31-38, assoc. prof, 38-46, PROF, 46- Lectr, Yale, 37-38; dir, div. territories & island possessions, U.S. Dept. Interior, 40-41; Off. Coordinator Inter-Am. Affairs, 41-42; regional adminstr, territories & possessions, 42-43; asst. adminstr, Lend Lease, 43; dir, liberated areas br, For. Econ. Admin, 43-45; vis. prof, California, 54. Trustee, Inst. Pac. Rel. Mem. Coun. For. Rels. Polit. Sci. Asn; Soc. Int. Law; African Studies Asn.(pres, 65-66); Asn. Asian Studies (pres, 53); Am. Acad. Arts & Sci. Publ: State and sovereignty in modern Germany; From empire to nation; Africa and United States policy, Prentice-Hall, 67. Address: 5 Buckingham Place, Cambridge, Mass. 02138.

EMERY, DR. BYRON E(LWYN), b. Kittery Point, Maine, Dec. 31, 28; m. 51; c. 2. GEOGRAPHY. B.A, Hawaii, 54, M.A, 56; Ph.D.(geog), Michigan, 63. Instr. GEOG, Eastern Michigan, 57-58, asst. prof, 58-61; TOLEDO, 63-66, ASSOC. PROF, 66-, CHMN. DEPT. 63- Consult, Toledo Regional Area Plan, 64-66. U.S.A, 46-49. Asn. Am. Geog; Regional Sci. Asn. Political geography; land-use analysis; regional planning. Publ: Co-auth, Economic activity, Toledo regional area & Population change, Toledo regional area, Toledo Regional Area Plan, 65. Address: Dept. of Geography, University of Toledo, Toledo, Ohio 43606.

EMERY, DR. DAVID A(MOS), b. Des Moines, Iowa, Aug. 4, 20; m. 44; c. 1. MANAGEMENT. B.S, Haverford Col, 42; M.A, Swarthmore Col, 45; Ph.D. (psychol), Mass. Inst. Tech, 48. Asst. prof. psychol, New Sch. Soc. Res, 47-51; ed-psychologist, Res. Inst. Am, 51-53; conf. dir, Am. Mgt. Asn, 53-54; consult, adv. mgt. prog, mgt. res. & develop. inst, Gen. Elec. Co, 54-59, behav. res. serv, 59-61; ASSOC, KEPNER-TREGOE ASSOCS, 61-; PROG. DIR. EXEC. & MGT. DEVELOP, INT. BUS. MACH. CORP, SANDS POINT, N.Y, 66- Psychol. Asn. Management development; communications; organization structure. Publ: Managerial leadership through motivation by objectives, Personnel Psychol; Field theoretical approach to psychological research, Soc. Res; co-auth, Figural after-effects in the third dimension of visual space, Am. J. Psychol. Address: Kirby Lane North, Rye, N.Y. 10580.

EMERY, DR. ROBERT F(IRESTONE), b. Kenton, Ohio, Jan. 18, 27; m. 57; c. 3. INTERNATIONAL ECONOMICS, FINANCE. B.A, Oberlin Col, 51, M.A, Michigan, 52, fels, 52-53, 54-55, Ph.D.(econ), 56. ECONOMIST, BD. GOV, FED. RESERVE SYST, WASH, D.C, 55- Prof, Southeastern, 60-, chmn. finance dept, 63, dean sr. div, 65- U.S. Merchant Marine, 45-47. Econ. Asn. Money and banking, especially the economic and monetary problems of Asia. Publ: The relation of exports and economic growth, Kyklos, 67; co-auth, Interest rates as an anti-inflationary instrument in Taiwan, Nat. Banking Rev, 9/66. Address: 3421 Shepherd St, Chevy Chase, Md. 20015.

EMERZIAN, PROF. A. D. JOSEPH, Indust. Admin, see 10th ed, Soc. & Behav. Vols.

EMFINGER, DR. W(ILLIAM) E(DWIN), b. Townley, Ala, Feb. 15, 17; m. 46. EDUCATIONAL PSYCHOLOGY. B.S, Troy State Col, 38; M.A, Peabody Col, 50; Ph.D, Fla. State, 57. Teacher, Butler County Schs, Ala, 38-40; Santa Rosa County Schs, Fla, 40-42; Gadsden County Schs, 46-47; prin. Bay County Schs, 47-53, dir. pupil personnel, 55-62; clin. psychologist, Bay County Guid. Clin, 62-64; psychologist, West. Carolina Develop. Eval. Clin, 64-66; ASSOC. PROF. PSYCHOL, SOUTH CAROLINA, 66- U.S.A.A.F, 42-45, Sgt. Psychol. Asn; Asn. Ment. Deficiency. Mental deficiency; learning problems of school children; parent counseling; emotional disorders of children. Address: 6033 Lakeshore Dr, Columbia, S.C. 29206.

EMMART, DR. BARNEY DUNAN, b. Boston, Mass, June 24, 23; m. 66; c. 1. MASS COMMUNICATIONS. A.B, Harvard, 47; Ph.D.(philos), London, 51. Researcher, Int. Press Inst, 52-53; parapsychol, Duke, 53-54; res. & writing, 54-66; ASST. PROF. JOURNALISTIC STUDIES, MASSACHUSETTS, 66- Boole lectr, Univ. Col, Cork, 59. U.S.A.A.F, 43-46. Asn. Ed. in Journalism; Soc. Journalism Sch. Adminstr. Axiomatics. Publ: Boolian logic and the modern world, 59 & co-auth, Logic and language of physics, 60, Radio Eireann. Address: E-10 Machmer Hall, University of Massachusetts, Amherst, Mass. 01002.

EMME, DR. EUGENE M(ORLOCK), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EMMER, DR. ROBERT E(WING), b. Mansfield, Ohio, Aug. 31, 17; m. 47; c. 2. ECONOMICS, STATISTICS. B.A, Ohio State, 38, M.A, 40; Ph.D.(econ), Chicago, 54. Civilian statistician, U.S. Army, Germany, 46-47; instr. econ. & statist, Utica Col, Syracuse, 47-48; assoc. prof, La. Polytech. Inst, 48-50; acting chmn. dept. econ, Elmhurst Col, 51-52; price economist, Off. Price Admin, Ill, 52; teacher econ, European Prog, Maryland, 53; economist, res. dept, Fed. Reserve Bank of Chicago, 53-57; asst. prog. economist, U.S. Opers. Mission, Int. Coop. Admin, Pakistan, 57-58, asst. prog. officer, Sudan, 58-59, prog. officer, Greece, 59-63, prog. economist, AGENCY INT. DEVELOP, India, 63-64, econ. adv. assigned to Cent. Bank of Jordan, 64-66, PROG. OFFICER, JORDAN, 66- U.S.A, 42-46. Econ. Asn. Price and monetary theory; development economics. Publ: Economic analysis and scientific philosophy, Allen & Unwin, Ltd, 67; West German monetary policy, J. Polit. Econ; Concept of hoarding, Rev. Econ. & Statist. Address: American Embassy, Amman, Jordan.

EMMERICH, PROF. HERBERT, b. New York, N.Y, Apr. 27, 97; m. 22; c. 3. PUBLIC ADMINISTRATION. B.S, Pennsylvania, 18; hon. D.C.L, Southern California, 55; LL.D, Syracuse, 62. Exec. v.pres, City Housing Corp, N.Y, 24-33; exec. officer & dep. governor, Farm Credit Admin, D.C, 33-37; assoc. dir, Pub. Admin. Clearing House, 37-41, dir, 45-57; exec. secy, War Prod. Bd. & Off. Prod. Mgt, 41-42; cmnr, Fed. Pub. Housing Authority, 42-44; sr. consult. pub. admin, UN, 57-63, PROF. GOVT. & FOR. AFFAIRS, VIRGINIA, 63- Lectr, Chicago, 39-62; Soc. Sci. Res. Coun. sr. res. award, 63-67; vis. prof, California, Berkeley, 68. Consult, President's cmt. admin. mgt, 36; bur. int. orgn. affairs, U.S. Dept. State, 63-65. Mem. cmt. vis. grad. sch. pub. admin, Harvard, 54-66. U.S.A, 18-19. Soc. Pub. Admin; Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Pub. Personnel Asn; Int. Inst. Admin. Sci.(pres, 62-68). Administration and management; housing. Publ: Handbook of public administration, UN Sales Document; Essays on federal reorganization. Address: 611 Rugby Rd, Charlottesville, Va. 22903.

EMMERICH, DR. WALTER, b. Bronxville, N.Y, Feb. 2, 29; m. 53; c. 2. PSYCHOLOGY, CHILD DEVELOPMENT. Ph.B. Chicago, 51, Ph.D.(psychol) 56. Asst. psychol, Chicago, 51, 52-53; clin. psychol. trainee, Vet. Admin. Hosp, Chicago, Ill, 53-56; asst. prof. psychol, Colorado, 56-61; assoc. prof. child develop. & family life, Purdue, 61-67; SR. RES. PSYCHOLOGIST, HUMAN DEVELOP. RES. GROUP, ED. TESTING SERV, 68-, U.S. Pub. Health Serv. vis. scholar, 66-67. Fel. Psychol. Asn; Soc. Res. Child Develop. Personality development; children's social cognitions; parental role. Publ: Family role concepts of children ages six to ten, 61 & Continuity and stability in early social development: II, teacher ratings, 66, Child Develop; co-auth, The role patterning of parental norms, Sociometry, 64. Address: Human Development Research Group, Educational Testing Service, Princeton, N.J. 08540.

EMMERT, DR. PHILIP, b. Huntington, W.Va, June 22, 40; m. 62; c. 1. COMMUNICATION. B.A, Ohio, 62, M.A, 64; Ph.D, 65. ASST. PROF. speech, Missouri, Columbia, 65-68; SPEECH COMMUN, CASE WESTERN RESERVE, 68- Nat. Soc. Study Commun; Speech Asn. Am. Quantitative methods of communication research; attitude formation and modification. Publ: Co-auth, Methods of research in communication, Houghton, (in press); auth, Grading and the speech semantic differential, Cent. States Speech J, 8/67. Address: Dept. of Speech Communication, Case Western Reserve University, Cleveland, Ohio 44106.

EMORY, DR. KENNETH P(IKE), b. Fitchburg, Mass, Nov. 23, 97; m. 26; c. 2. ETHNOLOGY. B.S, Dartmouth Col, 20, hon. D.Sc, 48; California, 21; A.M, Harvard, 23; Yale, Ph.D.(anthrop), 47. From lectr. to PROF. ANTHROP, HAWAII, 39-; ANTHROPOLOGIST, BISHOP MUS, 26-, CHMN. DEPT. ANTHROP, 62-, asst. ethnologist, 20-25. Prin. investr, Nat. Sci. Found. res. grant Polynesian archaeol, 62-64; investr, Nat. Sci. Found. res. grant Soc. Islands & Polynesian cultural history, 65-67; vis. prof, Oregon. Head archaeol. explor, Hawaiian Islands; archaeologist, U.S.S. Tanager exped, Nihoa & Necker Islands, 24, Kaimiloa exped, S.Seas, 25-26, Mangareva Island, 34; Espiritu Santo, New Hebrides, 44; Kapingamarangi exped, 47, 50; Bishop Mus. exped, Tahiti, 60-62. Chevalier, dans l'Ordre des Palmes Académique, 62. U.S.A, 43-45. Fel. Anthrop. Asn; Polynesian Soc. Archaeology of Hawaii, the Society Islands, the Pacific Equatorial Islands, and Tuamotu and Mangareva Islands; ethnology of Tuamotuan Archipelago, the Society Islands, Kapingamarangi and Hawaii. Publ: Stone remains in the Society Islands, Tuamotuan religious structures and ceremonies & Kapingamarangi: social and religious life of a Polynesian atoll, 65, Bishop Mus. Bull. Address: B.P. Bishop Museum, Honolulu, Hawaii 96819.

EMORY, DR. SAMUEL THOMAS, b. Durham, N.C, June 22, 33; m. 58; c. 2. GEOGRAPHY. A.B, North Carolina, 54, M.A, 59; Ph.D.(geog), Maryland, 64. Instr. geog. & geol, MARY WASHINGTON COL, VIRGINIA, 59-60, asst. prof, 60-65, ASSOC. PROF. GEOG, 65-, CHMN. DEPT. GEOG. & GEOL, 60- Assoc. prof, Richmond Prfnl. Inst, 62- Asn. Am. Geog; Am. Geog. Soc. Land use and agricultural geography in the Southeastern United States. Publ: Geology and the location of economic activity in Clarke and Frederick Counties, Virginia, 5/63 & Geology soils and crops in the North Carolina Piedmont, 1/64, Va. J. Sci; Regional variation in the Lower Shenandoah Valley of Virginia, Southeast. Geogr, 64. Address: Dept. of Geography, Mary Washington College, Fredericksburg, Va. 22401.

EMPEY, PROF. LAMAR T, b. Price, Utah, Apr. 9, 23; m. 49; c. 4. SOCIOLOGY. B.S, Brigham Young, 51, M.A, 52; Ph.D.(sociol), Washington State, 55. Asst. SOCIOL, Brigham Young, 51-52, asst. prof, 55-57, assoc. prof, 58-62; asst, Washington State, 52-55; assoc. prof, SOUTHERN CALIFORNIA, 62-67, PROF. & CHMN. DEPT, 67-, sr. res. assoc, youth studies center, 63-64, dir, 64-67. Res. grants, Ford Found, Rosenberg Found, Off. Juvenile Delinquency & Nat. Inst. Ment. Health, 59-67. Consult, President's Cmt. Juvenile Delinquency & Youth Crime, 61-64; President's Cmn. Law Enforcement & Admin. of Justice, 66-67; consult to various state & fed. govt. depts. & cmns. U.S.A, 43-46, Res, 46-52, Capt. Sociol. Asn; Soc. Criminol. Delinquency and crime causation; theoretical and organizational problems of conceptualizing, implementing and examining complex experimental models in the fields of delinquency and crime control. Publ: Alternatives to incarceration, U.S. Govt. Printing Off, 67; Social class and occupation aspirations, 56 & co-auth, The Provo experiment in delinquency rehabilitation, 61, Am. Sociol. Rev. Address: Dept. of Sociology, University of Southern California, Los Angeles, Calif. 90007.

ENBURG, DR. RICHARD STANLEY, b. Rock Island, Ill, Sept. 16, 31; m. 60; c. 1. PSYCHOLOGY. B.S, Trinity Col, 53; M.A, Connecticut, 57, Ph.D. (psychol), 62. Staff psychologist, Camarillo State Hosp, 61-63; asst. prof. psychol, St. Francis Col, 63-64; sr. scientist, GEORGE WASHINGTON, 64-65, DIR, COMPUT. PROG. RES. PROJ, 65- Consult, heart inst. & community health, Nat. Insts. Health, 67- U.S.A, 54-56, Sgt. Psychol. Asn; Asn. Comput. Mach. Computer techniques and statistics. Address: 14113 Arctic Ave, Rockville, Md. 20853.

ENDLEMAN, PROF. ROBERT, b. Sudbury, Ont, Oct. 2, 23; nat; m. 61; c. 2. SOCIOLOGY. B.A, Toronto, 46; fel. & M.A, Wisconsin, 47; fel. & Ph.D. (sociol), Harvard, 55. Instr. soc. sci. & exten. lectr. anthrop, Minnesota, 49-51; asst. prof. sociol, Champlain Col, 51-52; sociologist, disaster res. team, Nat. Opinion Res. Center, Ill, 52-54; from instr. to asst. prof. sociol, Illinois, 53-57; asst. prof, Hofstra Col, 57-58; assoc. prof. soc. sci, State Univ, N.Y. L.I. Center, 58-61; SOCIOL, ADELPHI, 61-64, PROF, 64-, CHMN. DEPT, 63-, res. assoc. inst. behav. & soc. sci, 61-62. Sociol. Asn; Anthrop. Asn; Soc. Study Social Probs. Personality and social structure; social pathology. Publ: Personality and social life, Random, 67; co-auth, Human behavior in disaster; auth, Reflections on the human revolution, Psychoanal. Rev, summer 66. Address: Dept. of Sociology, Adelphi University, Garden City, N.Y. 11530.

ENDLER, DR. NORMAN S(OLOMON), b. Montreal, Que, May 2, 31; m. 55; c. 2. PSYCHOLOGY. B.Sc, McGill, 53, M.Sc, 54; fel, Illinois, 54-55, Ph.D. (psychol), 58. Asst. psychol, McGill, 53-54; Illinois, 55-56, diagnostic tester, 56-57, clin. intern, 57-58, clin. counsr, 58; psychologist, Pa. State, 58-60; res. assoc. & lectr. PSYCHOL, YORK (ONT), 60-62, asst. prof, 62-65, assoc. prof, 65-68, PROF, 68- Res. grants, Nat. Res. Coun. Can, 64-65, 66-67, U.S. Pub. Health Serv, 64-67; Can. Coun. sr. fel, 67; fel, Winter Col, York (Ont), 67- Consult. psychologist, East York Ment. Health Clin, 64. AAAS; Am. Psychol. Asn; Soc. Res. Child Develop; N.Y. Acad. Sci; Can. Psychol. Asn. Conformity and small group research; personality assessment, especially the assessment of anxiety test construction; predictors of academic success; psychotherapy and psychodiagnostic techniques. Publ: Co-auth, Contemporary issues in developmental psychology, Holt, 68 & Sources of behavioral variance as measured by the S-R inventory of anxiousness, Psychol. Bull, 65: 336-346; auth, Conformity as a function of different reinforcement schedules, J. Personality & Soc. Psychol, 4: 175-180. Address: Dept. of Psychology, York University, Toronto 12, Ont, Can.

ENDLER, OSCAR L(EWIS), Econ, see 10th ed, Soc. & Behav. Vols.

ENDRES, DR. MICHAEL E, b. Muskegon, Mich, Jan. 18, 33; m. 56; c. 2. SOCIOLOGY. B.A, Aquinas Col, 55; M.A, Notre Dame, 56; Ph.D.(sociol), St. Louis, 63. Instr. SOCIOL, Regis Col, 58-62, asst. prof, 63-64; St. Bonaventure, 64-65; THOMAS MORE COL, 65-66, ASSOC. PROF. & CHMN DEPT, 66- Institutional change in the Catholic church, its structure and function. Publ: The priest as a marriage counselor, Am. Ecclesiastical Rev, 4/65; Some second thoughts on the morality of discrimination, Cithara, spring 67; Social change and Catholic marriage values, Sociol. Anal, spring 67. Address: Dept. of Sociology, Thomas More College, Ft. Mitchell, Ky. 41017.

ENDS, DR. EARL JAMES, b. Cleveland, Ohio, Aug. 10, 21; m. 47; c. 2. PSYCHOLOGY. B.A, Denver, 51, M.A, 54, Ph.D.(psychol), 58. Res. psychologist, Willmar State Hosp, Minn, 54-56, 57-58; supvr. employee anal, Martin-Denver, Colo, 58-59; chief psychologist mgt. consult, Psychol. Res. & Develop. Corp, 59; prin. engr, HUMAN FACTORS ENG, Martin-Denver, 59-62; HEAD, LOCKHEED-CALIF. CO, LOCKHEED AIRCRAFT CORP, 62- U.S.M.C, 42-46, Sgt. Psychol. Asn; Aerospace Med. Asn; Human Factors Soc; Inst. Aeronaut. & Astronaut. Psychotherapy; hypnosis; personnel selection; engineering psychology; human factors engineering. Address: 17340 Kalisher St, Granada Hills, Calif. 93144.

ENDSLEY, DR. RICHARD CURTIS, b. Monticello, Iowa, June 6, 35; m. 58; c. 2. DEVELOPMENTAL PSYCHOLOGY. B.A, Beloit Col, 57; M.A, Iowa, 60, Ph.D.(child psychol), 64. Assoc. prof. DEVELOP. PSYCHOL, State Univ. N.Y. Col. Oneonta, 60-63; ASST. PROF, South Dakota, 64-66; GEORGIA, 66- Soc. Res. Child Develop; Psychol. Asn. Determinants of children's exploratory behavior; effects of forcing correct and incorrect responses on discrimination learning in young children; motivational effects of blocking children's behavior; sex role acquisition in children. Publ: Effortfulness and blocking at different distances from the goal as determinants of response speed and amplitude, 3/66 & co-auth, Effects of three reward-nonreward ratios on discrimination learning in preschool children, 10/66, J. Exp. Child Psychol; auth, Effects of differential prior exposure on preschool children's subsequent choice of novel stimuli, Psychonomic Sci, 67. Address: Dept. of Child Development & Psychology, Dawson Hall, University of Georgia, Athens, Ga. 30601.

ENELL, DR. JOHN W(ARREN), b. New York, N.Y, June 24, 19; m. 49; c. 4. STATISTICS. B.S, Pennsylvania, 40; M.S, N.Y. Univ, 47, Eng.Sc.D.(indust. mgt, statist. methods), 49. Sr. exp. engr, Wright Aeronaut. Div, Curtiss-Wright Corp, 40-46; res. assoc. human body motion res, N.Y. Univ, 46-48, instr. indust. eng, 48-50, asst. prof. eng. statist, 50-54, dir. surv, AM. MGT. ASN, 54-61, res, 61-67, V.PRES. RES, 67- Assoc. prof, N.Y. Univ, 54-55, prof, 56-57. Adv. indust. qual. control, U.S. Mutual Security Agency, Italy, 52-53. Statist. Asn; Soc. Mech. Eng; Soc. Qual. Control; Inst. Mgt. Sci; Indust. Rels. Res. Asn; Inst. Indust. Eng. (exec. v.pres, 67-68, pres, 68-69). Practices and principles of management and supervision, especially executive motivation, behavior, productivity, creativity and leadership; surveys of practices in organization and management. Publ: Setting standards for executive performance; Chap. In: Production handbook & Quality control handbook. Address: American Management Association, 135 W. 50th St, New York, N.Y. 10020.

ENG, DR. ERLING W(ALTER), b. Minneapolis, Minn, Mar. 24, 18; m. 41; c. 2. PSYCHOLOGY. B.S, Minnesota, 41; Qm. Food & Container Inst. fel, Northwestern, 47-49, M.A, 48, Ph.D.(psychol), 52. Lectr, Northwestern, 47-49; assoc. prof. psychol, Antioch Col, 49-61; clin. psychologist, Dayton State Hosp, Ohio, 59-62; UNIT PSYCHOLOGIST, VET. ADMIN. HOSP, 62- Consult, Ky. Dept. Ment. Hyg, 67- U.S.A.A.F, 42-45, Lt. Psychol. Asn. Phenomenological anthropology; phenomena of intoxication; treatment of alcoholics; therapeutic community. Publ: Cellini's two childhood memories, Am. Imago; Skeptical psychologist & Freud and the changing present, Antioch Rev. Address: 848 Summerville Dr, Lexington, Ky. 40504.

ENGBERG, DR. HOLGER LAESSOE, b. Køge, Denmark, July 17, 30; m. 55; c. 1. ECONOMICS. M.A, Copenhagen, 55; Ph.D.(banking), Columbia, 63. Economist, Berlingske Tidende, Denmark, 55-57; lectr. banking & finance, Columbia, 58-62; asst. prof. FINANCE, N.Y. UNIV, 62-65, ASSOC. PROF, 65- Soc. Sci. Res. Coun. res. grants, E.Africa & Nigeria, 63, 66; N.Y. Univ. Faculty res. grant, Africa, 67-68. Econ. Asn; Finance Asn; African Studies Asn; Danish Econ. Soc. Financial aspects of economic development, especially tropical Africa. Publ: French money and capital markets and monetary management, Devine Inst, 65; co-auth, International business education, N.Y. Univ, 66; auth, Commercial banking in East Africa, 1950-63, J. Mod. African Studies, 65. Address: Dept. of Finance, New York University Graduate School of Business Administration, 100 Trinity Place, New York, N.Y. 10006.

ENGBERG, PROF. L(AUREL) A(RTHUR), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

ENGBERG, DR. R(USSELL) C(ARL), b. Kiron, Iowa, Mar. 6, 94. AGRICULTURAL ECONOMICS. B.S, Iowa State Col, 17; M.S, Minnesota, 23; Ph.D, Columbia, 27. Assoc. prof. econ, Idaho, 26-27; statist. economist, Fed. Farm Loan Bd, D.C, 28-33; prin. economist, Farm Credit Admin, 33-36, chief joint stock land bank sect, 36-38, dir. res, Omaha, 38-45, chief, econ. & credit anal. div, 45-55, res. & info. div, 55-62; AGR. FINANCE CONSULT, 62- U.S.A, 17-19, Capt. Agr. Econ. Asn. Agricultural credit. Publ: Industrial prosperity and the farmer; Financing farmer cooperatives, Banks Coop, 65. Address: 2034-A Via Mariposa E, Laguna Hills, Calif. 92653.

ENGEL, DR. ALAN S, b. Chicago, Ill, Jan. 31, 32; m. 54; c. 2. POLITICAL SCIENCE, CONSTITUTIONAL LAW. B.S, North. Ill. State Teachers Col, 52; M.A, Chicago, 53; fel. & Ph.D.(polit. sci), Northwestern, 60. Instr. soc. sci, Wright Jr. Col, 56-58; asst. prof. GOVT, MIAMI (OHIO), 60-65, ASSOC. PROF, 65- Polit. Sci. Asn; Law & Society Asn. Civil liberties and the Supreme Court; separation of church and state, constitutional considerations regarding aid to religion in education; Eugenic sterilization, the relationship between law and social control. Publ: Co-auth, Left, right and center, Dodd, 68; auth, Review, the liberal idea of freedom, Midwest J. Polit. Sci, 11/64. Address: Dept. of Government, Miami University, Oxford, Ohio 45056.

ENGEL, DR. BERNARD T(HEODORE), b. Chicago, Ill, Apr. 18, 28; m. 51; c. 3. PSYCHOLOGY. B.A, California, Los Angeles, 54, Ph.D.(psychol), 57. Jr. res. psychologist, California, Los Angeles, 56-57; res. psychologist, inst. psychosom. & psychiat. res. & training, Michael Reese Hosp, Chicago, Ill, 57-58; asst. res. psychologist, cardiovascular res. inst, sch. med, California, San Francisco, 59-60, assoc. res. psychologist, 61-67; CHIEF PHYSIOL. PSYCHOL. SECT, GERONT. RES. CENTER NAT. INST. CHILD HEALTH & HUMAN DEVELOP, 67- U.S.A, 50-52. AAAS; Psychol. Asn; Soc. Psychophysiol. Res. Analysis of idiosyncratic, physiological response patterns; learned, voluntary control of autonomic responses; gerontology. Publ: Co-auth, Stimulus-response and individual-response specificity in essential hypertensives, Arch. Gen. Psychiat; Operant conditioning of heart rate slowing, Psychophysiology, 66 & An analysis of blood pressure trends based on annual observations of the same subjects, J. Chronic Diseases, 67. Address: Gerontology Research Center, Baltimore City Hospitals, Baltimore, Md. 21224.

ENGEL, DR. EDWARD, b. Jamaica, N.Y, June 6, 23; m. 50; c. 2. PSYCHOLOGY. B.A, George Washington, 52; M.A, Princeton, 54, Ph.D, 55. Instr. PSYCHOL, Princeton, 55-56; med. sch, Pennsylvania, 56-57; asst. prof, State Univ. N.Y. Upstate Med. Center, 57-65; ASSOC. PROF, KENTUCKY, 65- U.S.N, 42-45. Psychol. Asn. Visual perception; binocular vision. Publ: Role of content in binocular resolution, Am. J. Psychol; Binocular fusion of dissimilar figures, J. Psychol; Binocular methods in psychological research, In: Explorations in transactional psychology. Address: Dept. of Psychology, University of Kentucky, Lexington, Ky. 40506.

ENGEL, DR. JAMES F(RANKLIN), b. Kansas City, Mo, Apr. 24, 36; m. 61; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Westminster Col, 61; Nat. Defense Ed. Act fel, Virginia, 61-64, Ph.D.(for. affairs), 64. ASST. PROF. GOVT, NEW MEXICO STATE, 64- Summer grant, res. center, New Mexico State, 68. Editor, N.Mex. J. Soc. Studies. Polit. Sci. Asn; Acad. Polit. Sci. Latin American and world affairs; interrelationship of Mexico, Cuba and the United States in the international field. Publ: The revolution and Mexican foreign policy, J. Inter-Am. Studies, 68. Address: 2703 Claude Dove Dr, Las Cruces, N.Mex. 88001.

ENGEL, PROF. JAMES F(REDERICK), b. Des Moines, Iowa, Mar. 3, 34; m. 57; c. 2. PSYCHOLOGY, MARKETING. B.S, Drake, 56; univ. fel, Illinois, 56-57, M.S, 57; Ford Found. fel, 57-59, Ph.D.(bus), 60. Instr. MKT, Illinois, 59-60; asst. prof, Michigan, 60-63; PROF, OHIO STATE, 63- Mkt. Asn; Econ. Asn. Application of social psychology to marketing, especially the findings of mass communications as they are relevant to advertising; validation of psychological methods applied in marketing research. Publ: Co-auth, Promotional strategy, Irwin, 67, Marketing, Ronald, 67 & Consumer behavior, Holt, 68. Address: College of Administrative Sciences, Ohio State University, Columbus, Ohio 43210.

ENGEL, DR. NOLAN EUGENE, b. Central City, Nebr, Sept. 4, 32; m; c. 5. ECONOMICS. B.S, Nebraska, 54; M.S, Connecticut, 59, Ph.D.(agr. econ), 67. ASST. PROF. MKT. ECON, MASSACHUSETTS, AMHERST, 59- Secy-treas, New Eng. Agr. Econ. Coun, 61-63; consult, Gov. Bd. Econ. Adv, Mass, 64. U.S.A.F, 54-57, Res, 57-, Capt. Agr. Econ. Asn. Vegetable and dairy marketing. Publ: Co-auth, Economic effects of alternative organizations on large dairy farms, Conn. Agr. Exp. Sta, 11/60; co-auth, The market potential for closely sized potatoes, 6/64 & auth, The State of Massachusetts agricultural economy, 7/65, Mass. Exten. Serv. Address: Dept. of Agriculture & Food Economics, University of Massachusetts, Amherst, Mass. 01002.

ENGEL, PROF. SALO, b. Austria, July 31, 08; nat; m. 33; c. 1. POLITICAL SCIENCE. Doctorat ès scis. politiques, Grad. Inst. Int. Studies, Geneva, 36. Fel, Hague Acad. Int. Law, 37; res. assoc, Geneva Res. Center, 37-40; spec. asst. to J.Lopez Olivan, registr, Permanent Court Int. Justice, 41-46; PROF. POLIT. SCI, TENNESSEE, 47- Legal codification adv. to Panama, Point Four, 55-57; vis. consult, Harvard Law Sch, 57-59; Ford Found. law faculty fel, 63-64; Rockefeller Found. res. grant, 64-65. Knight, Orden Nacional de Nûnez de Balboa, Panama, 57. Polit. Sci. Asn; Soc. Int. Law. International law and organization; comparative government; legal theory. Publ: League reform; Legislación Panamena; ed, Law, state, and international legal order, Univ. Tennessee, 64. Address: Dept. of Political Science, University of Tennessee, Knoxville, Tenn. 37916.

ENGEL, PROF. WAYNE EMERSON, b. Berlin, Ohio, Oct. 10, 32; m. 53; c. 3. PSYCHOLOGY. B.A, Capital Univ, 54; M.A, Kent State, 59; Ph.D.(counseling clin. psychol), Minnesota, 64. Counseling psychologist, pub. schs, Ohio, 56-59; clin. psychologist, pub. schs, Minn, 59-62; dir. psychol. serv, prof. adv. cmt, U.S. Air Force, Dept. Defense, 62-63; clin. psychologist, Minneapolis Vet. Admin. Hosp, Minn, 63-64; PROF. PSYCHOL, RADFORD COL, 64- Consult. psychol, Stillwater Schs, 60-62; Mt. Empire Guid. Center, 64-; voc. counseling consult, Soc. Security Admin, 64- Mil. Intel, U.S.A, 54-56. Psychol. Asn; Personnel & Guid. Asn. Clinical, counseling and school

psychology; psychological testing and measurement. Publ: Personality characteristics associated with discrepant achievement, 67. Address: Dept. of Psychology, Radford College, Radford, Va. 24141.

ENGELBERT, PROF. ERNEST A(NDREW), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

ENGELBOURG, DR. SAUL, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ENGELHARDT, DR. OLGA de CILLIS, b. New York, N.Y, Aug. 26, 17; m. 50; c. 2. PSYCHOLOGY. A.B, Hunter Col, 39; A.M, Columbia, 40, Ph.D.(psychol), 44. Instr. psychol, Connecticut, 43-46, asst. prof, 46-51; res. assoc, indust. rels. center, Chicago, 50-52, asst. prof, 52-55, dir. human rels. proj, 52-55; CONSULT. PSYCHOLOGIST, 55- Vis. prof, N.Cent. Col.(Ill), 66-68. Fel. AAAS; Psychol. Asn. Selection, placement, appraisal and development of supervisory and executive personnel; consumer and industrial relations; consumer, market and social research. Publ: Absolute thresholds for the perception of tactual movement, Arch. Psychol; Minnesota clerical test & Comparison of the Terman-Miles Attitude Interest Test and the MF scale of the Minnesota Multiphasic Personality Inventory, J. Appl. Psychol. Address: 31 Woodland Glen, Thorn Creek, Park Forest, Ill. 60466.

ENGELHARDT-GRIMM, DR. VERONICA, b. Budapest, Hungary, Sept. 20, 34; U.S. citizen; m. 62; c. 1. PSYCHOLOGY. B.A, Wayne State, 59; Ph.D.(psychol), Iowa, 62. Nat. Insts. Health res. fel, Neurosensory center, univ. hosps, Iowa, 62-63; asst. prof. PSYCHOL, Coe Col, 63-65; lectr, Oberlin Col, 65-66; ASST. PROF, CLEVELAND STATE, 66-; DIR. RES, BROADVIEW CENTER FOR THE RETARDED, 66- Psychol. Asn. Learning; motivation and emotion; human potentials; retardation. Address: Dept. of Psychology, Cleveland State University, Cleveland, Ohio 44115.

ENGELHART, DR. MAX DISSETTE, b. Cleveland, Ohio, Feb. 28, 01; m. 56; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Illinois, 23, M.S, 26, Ph.D, 32. Chemist, Ill. Steel Co, Ind, 23-24; Int. Lead Ref. Co, 24-25; instr. chem, sch. tech, Georgia, 26-27; asst. ed. res, Illinois, 27-32; researcher psychol, Chicago, 32-35; dir. div. instnl. res. & evaluation, Chicago City Col, 35-66; LECTR. ED, DUKE, 66- Chmn. Cmt. Rev. Ed. Res. on Ed. & Psychol. Testing, 56. Civilian with exam. staff, U.S. Armed Forces Inst, 43-44. Fel. Psychol. Asn; Ed. Res. Asn; Psychomet. Soc; Nat. Coun. Measurement in Ed.(pres, 61). Educational testing; educational experimentation; statistical method. Publ: Study guide TV course in educational measurement and evaluation, Chicago City Col, 63; Suggestions with respect to experimentation under school conditions, J. Exp. Ed; Method of estimating the reliability of ratings compared with certain methods of estimating the reliability of tests, Ed. & Psychol. Measurement. Address: 2419 Perkins Rd, Durham, N.C. 27706.

ENGELHART, DR. ROLAND SCOTT, b. Washington, D.C, July 7, 30; m. 59. CLINICAL PSYCHOLOGY. A.B, Davidson Col, 52; Ph.D.(psychol), Duke, 59. Instr. CLIN. PSYCHOL, med. sch, Baylor, 58-61; ASST. PROF, med. sch, Iowa, 61-65; MED. CENTER, ALABAMA, 65- Asst. prof, col. gen. studies, Alabama, Birmingham, 66- AAAS; Psychol. Asn. Etiological factors in schizophrenia; group and projective test differences in psychiatric and neurological disorders. Address: Dept. of Psychology, University of Alabama Medical Center, 1919 Seventh Ave. S, Birmingham, Ala. 35233.

ENGELMAN, DR. GERALD, b. Slater, Iowa, June 19, 14; m. 43; c. 4. AGRICULTURAL ECONOMICS. B.S, Iowa State, 37; Ph.D.(agr. econ), Minnesota, 48. Coordinator regional res. livestock mkt, Univ. Minnesota & U.S. Dept. Agr, 48-50; head livestock sect, mkt. econ. div, econ. res. serv, U.S. DEPT. AGR, 50-62, DIR. INDUST. ANAL. STAFF, PACKERS & STOCKYARDS ADMIN, 62- Vis. prof, Minnesota, 61. Chmn, Am. Swine Study Mission, Can, 57. U.S.A, 42-46, 1st Lt. Am. Agr. Econ. Asn; Can. Agr. Econ. Soc. Anti-trust and trade practice analysis in the livestock, poultry and meat marketing industries; development and improvement of grade standards to improve pricing efficiency; structure of livestock and meat marketing systems. Address: 3924 Rickover Rd, Silver Spring, Md. 20902.

ENGELMANN, PROF. FREDERICK C(HARLES), b. Vienna, Austria, July 10, 21; U.S. citizen; m. 53; c. 3. POLITICAL SCIENCE. A.B, California, Los Angeles, 43, Loewy fel. & A.M, 47; Block fel. & M.A, Yale, 50, Ph.D.(polit. sci), 54. Instr. POLIT. SCI, Alfred, 50-52, asst. prof, 52-56, assoc. prof, 56-62; ALBERTA, 62-66, PROF, 66- Rockefeller Found. res. grant, 59-60; Can. Coun. res. grant, 68-69. U.S.A, 43-46, 1st Lt. Am. Polit. Sci. Asn; Can. Polit. Sci. Asn. Canadian, Austrian and German political parties; comparative political parties; government coalitions of antagonistic parties. Publ: Co-auth, Political oppositions in Western democracies, Yale, 66 & Political parties and the Canadian social structure, Prentice-Hall, 67; Recent writings on political parties: a review, J. Polit, 57. Address: Dept. of Political Science, University of Alberta, Edmonton, Alta, Can.

ENGELMANN, PROF. HUGO O(TTO), b. Vienna, Austria, Sept. 11, 17; nat; m. 41; c. 1. SOCIOLOGY. B.A, Wisconsin, 41, Ph.D.(sociol), 53. Instr. soc. sci, basic col, Mich. State Col, 45-48; SOCIOL, Wis. State Col, 48-54, asst. prof, 54-56; assoc. prof, WISCONSIN, MILWAUKEE, 56-62, PROF, 62-, chmn. dept, 64-67. Ed, Wisconsin Sociologist, 59-; Clearinghouse Sociol. Lit, 65- AAAS; Sociol. Asn; Anthrop. Asn; Polit. Sci. Asn; Soc. Gen. Systs. Res. Social theory; general system theory; methodology. Publ: Evaluation modality test; Essays in social theory and social organization, W.C. Brown, 66; Theoretical sociology: its bases and place in modern science, Clearinghouse Sociol. Lit, 66. Address: 1814 E. Edgewood Ave, Milwaukee, Wis. 53211.

ENGEN, DR. EUGENE PAUL, b. Yankton, S.Dak, Mar. 4, 31; m. 57; c. 1. PSYCHOLOGY. B.A, Yankton Col, 52; M.A, Mills Col, 55; U.S. Pub. Health Serv. fel, La. State, 57-59, Ph.D.(clin. psychol), 59. Psychologist, Yankton State Hosp, 54-56; clin. asst. psychol, La. State, 56-57; chief psychologist, Yankton State Hosp, 59-63; scientist, U.S. Pub. Health Serv. Hosps, Ft. Worth & Lexington, Tex, 64; chief psychologist, YANKTON STATE HOSP, 64-67, DIR, ADOLESCENT TREATMENT PROG, 67- Lectr, Yankton Col, 61; clin. assoc, South Dakota, 65-; consult. clin. psychologist, Mt. Marty Col, 66- U.S.A.F, 52-54. Psychol. Asn. Personality development; language functions; psychotherapy; response set of pulmonary tuberculosis patients. Address: Adolescent Treatment Program, Yankton State Hospital, Yankton, S.Dak. 57078.

ENGEN, PROF. TRYGG, b. Oslo, Norway, Feb. 18, 26; m. 51. PSYCHOLOGY. B.A, Central Michigan, 50, D.Sc, 65; M.A, Detroit, 52; Ph.D, Nebraska, 54. Instr. PSYCHOL, BROWN, 54-56, asst. prof, 56-60, assoc. prof, 60-65, PROF, 65- NATO fel, Stockholm, 61-62. Royal Norweg. Air Force, 46-47. AAAS; Psychol. Asn; Psychonomic Soc. Psychophysics; olfaction. Publ: Psychophysical analysis of the odor intensity of homologous alcohols, J. Exp. Psychol. Address: Dept. of Psychology, Brown University, Providence, R.I. 02912.

ENGENE, PROF. SELMER A(MUND), b. Spring Grove, Minn, Aug. 1, 06; m. 39. AGRICULTURAL ECONOMICS. B.Sc, Minnesota, 31, Ph.D.(agr. econ), 40. Asst. agr. econ, MINNESOTA, 31-34, asst. exten. agr. economist, 34-35, asst. AGR. ECON, 35-36, instr, 35-40, asst. prof, 40-48, assoc. prof, 48-57, PROF, 57- AAAS; Agr. Econ. Asn. Farm work simplification, accounting and management; production economics. Address: Dept. of Agricultural Economics, University of Minnesota, St. Paul, Minn. 55101.

ENGER, DR. THOMAS P, b. Deer Lodge, Mont, Apr. 21, 38; m. 60; c. 1. ECONOMICS. B.A,Montana, 60, M.A, 62; Ph.D.(econ), Ohio State, 65. ASST. PROF. ECON, ST. OLAF COL, 65- Econ. Asn. International economics, public finance; macro theory; economic development. Address: Dept. of Economics, St. Olaf College, Northfield, Minn. 55057.

ENGGASS, DR. PETER M(AURICE), b. Detroit, Mich, July 16, 27; m. 55; c. 3. GEOGRAPHY. B.A, Michigan, 51, M.A, 59, Nat. Acad. Sci-Nat. Res. Coun. fel, 64-65, Ph.D.(geog), 66. ASST. PROF. GEOG, MT. HOLYOKE COL, 65- Sig.C, U.S.A, 50-53, 1st Lt. Asn. Am. Geog; Am. Geog. Soc; Royal Netherlands Geog. Soc. Agricultural land use; land reclamation; governmental land reform projects in the Mediterranean region; political and historical geography. Publ: New agrarian colonies in Andalusia: a contemporary appraisal of foreign settlements in 18th century Spain, Papers Mich. Acad. Sci, Arts & Letters, 66; A method for measuring and comparing agricultural land use: an Andalusian experiment, Prof. Geogr, 5/67; Land reclamation and resettlement in the Guadalquivir delta—Las Marismas, Econ. Geog, 4/68. Address: Dept. of Geography, Mt. Holyoke College, South Hadley, Mass. 01075.

ENGLAND, PROF. GEORGE WILLIAM, b. Pierre, S.Dak, June 19, 27; m. 48; c. 4. PSYCHOLOGY, INDUSTRIAL RELATIONS. B.A, Minnesota, 51, M.A, 52, fel, 53-56, Ph.D, 56. Mem. personnel res. dept, Radio Corp. Am, 52-53; res. assoc, indust. rels. center, Minnesota, 56-59, acting asst. dir, 59-67, asst. prof. psychol. & indust. rels, univ, 57-59, assoc. prof, 59-60, PROF, 61-67; MGT, COL. BUS, COLORADO STATE, 67- U.S.N, 45-46. Psychol. Asn; Indust. Rels. Res. Asn. Personnel and industrial psychology; selection, training, counseling, motivation and work adjustment. Publ: Problems in vocational psychology; Development and use of weighted application blanks; Definition of work adjustment, Minneapolis. Address: Dept. of Management, Colorado State University College of Business, Ft. Collins, Colo. 80521.

ENGLAND, PROF. RALPH W(ILBUR), JR, b. Detroit, Mich, Mar. 13, 19; m. 55; c. 2. SOCIOLOGY, CRIMINOLOGY. B.A, Michigan, 41; M.A, Pennsylvania, 47, Ph.D, 54. Instr. SOCIOL, Pennsylvania, 47-55; asst. prof, Illinois, 55-60; assoc. prof, RHODE ISLAND, 60-65, PROF, 65- Consult, Sect. Soc. Defence, UN, 54-55. U.S.A, 42-46. Fel. Sociol. Asn. Juvenile delinquency; sociology of religion. Publ: Prison labour; co-auth, Criminology, Macmillan, 64; auth, Theory of middle class juvenile delinquency. Address: Dept. of Sociology, University of Rhode Island, Kingston, R.I. 02881.

ENGLANDER, PROF. MERYL E(DWIN), b. Ferndale, Mich, July 15, 25; m. 55; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Michigan, 47, M.A, 49, Ph.D.(ed. psychol), 57. Asst. dir. placement off, Michigan, 52-54; assoc. prof. ED. PSYCHOL, Sacramento State Col, 55-67; PROF. INDIANA, 67- Consult, Mono & Sierra-Plumas County, Nat. Defense Act, 59-60. U.S.N, 43-46, Ens. Psychol. Asn; Personnel Guid. Asn. Teacher education, especially psychological foundations; teacher recruitment, selection and placement; vocational choice testing; individual counseling. Publ: Psychological analysis of vocational choice: teaching, J. Counseling Psychol; Changes in affect attributable to instruction in reading improvement at the college level, J. Ed. Res; Influencing vocational choice: pilot study, Voc. Guid. Quart. Address: Knightridge Manor 14, 608 Knight Ridge Rd, Bloomington, Ind. 47405.

ENGLE, DR. FRED ALLEN, JR, b. Louisville, Ky, Nov. 14, 29; m. 53; c. 3. ECONOMICS. B.S, East. Ky. State Col, 51; M.B.A, Kentucky, 54, Ed.D. (econ, higher ed), 66. Mgr. bus, Gen. Elec. Co, 55-57; asst. prof, Col. William & Mary, 57-59; ASSOC. PROF. ECON, EASTERN KENTUCKY, 59- U.S.A, 51-53, 1st Lt. History of economic thought and American economic history; labor economics. Publ: History of Central University, Kentucky Hist. Soc, Spring 68; co-auth, Moral & spiritual guidance, Univ. Kentucky, 59; auth, The superintendents & the issues, Kentucky Dept. Ed. J, 5/68. Address: Dept. of Economics, College of Business, Eastern Kentucky University, Richmond, Ky. 40475.

ENGLE, PROF. NATHANAEL H(OWARD), b. Aberdeen, S.Dak; m. 24; c. 2. ECONOMICS. A.B, Washington (Seattle), 25, A.M, 26; Ph.D, Michigan, 29. Instr. econ, Michigan, 26-30; expert mkt, U.S. Bur. Census, 30-32; economist, res. staff, Brookings Instn, 32-33; from asst. dir. to acting dir, U.S. Bur. For. & Domestic Commerce, 33-40; econ. consult, Nat. Defense Adv. Cmt, 40-41; prof. MKT, TRANSPORTATION & INT. BUS, WASHINGTON (SEATTLE), 41-62, EMER. PROF, 62- Vis. asst. prof, Brown, 30-31; prof. lectr, George Washington, 34-39; with Pakistan Indust. Credit & Invest. Corp, Ltd, Karachi, Pakistan, 62; Christian Sci. practitioner, 65- Econ. Asn; Statist. Asn.(v.pres, 42); Mkt. Asn.(pres, 39). Marketing; housing; industrial development. Publ: Aluminum; If men want peace; co-auth, Wholesaling. Address: Dept. of Marketing, Transportation & International Business, University of Washington, Seattle, Wash. 98105.

ENGLE, PROF. T(HELBURN) L(a ROY), b. Indianapolis, Ind, Sept. 28, 01; m. 33; c. 3. PSYCHOLOGY. A.B, Butler, 22; M.A, Northwestern, 24; Chicago, 31-33; Ph.D.(psychol), Indiana, 37. Teacher, high sch, Ind, 28-38; instr. PSYCHOL, INDIANA, 38-45, asst. prof, 45-50, assoc. prof, 50-61, PROF, 61- Psychol. Asn. Communication between psychologists and high school teachers; bringing the attention of high school students to psychology as a science. Publ: Record of activities and experiments; Psychology: its principles and applications, Harcourt, 5th ed, 69; co-auth, Points for decision. Address: 1025 Northlawn Dr, Ft. Wayne, Ind. 46805.

ENGLER, DR. RICHARD E(MIL), JR, b. Los Angeles, Calif, Dec. 31, 25. SOCIOLOGY. B.A, California, 49; Scholar. & M.A, Southern California, 53, Ph.D.(sociol), 57. Res. assoc. sociol, Child Welfare League Am, 57-59; human factors scientist, soc. psychol, Ramo-Wooldridge Corp, 59-60, data processing systems, 60; data processing mgt. systs, Syst. Develop. Corp, 61-65; sr. consult health & welfare serv, Greenleigh Assocs, Inc, 65-66; SR. RES. SCIENTIST, HUMAN SCI. RES, INC, 66- Design specialist, Martin Co, 60; acting asst. prof, Colorado, 60. U.S.A, 44-46, 50-52, Sgt. Sociol. Asn; Soc. Appl. Anthrop. Social and cultural dynamics in American community life; dynamics of human formal organization; social psychology of small human groups; mental health. Publ: Co-auth, Children in need of parents; auth, The challenge of diversity, Harper, 64; Community dynamics of child placement, Child Welfare. Address: 4921 Seminary Rd, Apt. 1313, Alexandria, Va. 22311.

ENGLER, PROF. R(OBERT), b. New York, N.Y, July 12, 22; div; c. 2. POLITICAL SCIENCE. B.Soc.S, City Col. 42; scholar, Wisconsin, 42-43, A.M, 46, Ph.D, 47. Munic. res. assoc, City Dept. Invest, New York, 41-42; instr, Wisconsin, 46-47; POLIT. SCI, Syracuse, 47-48, asst. prof, 48-51; PROF, SARAH LAWRENCE COL, 51-; QUEENS COL.(N.Y), 64- Spec. asst. to pres, Nat. Farmers Union, 50-51; Whitney grants, 54-55; mem. grad. faculty, Columbia, 59-63; mem. faculty, New Sch. Soc. Res, 61-63. Hillman prize, 56. U.S.A, 43-46. AAAS; Polit. Sci. Asn. American political institutions; political theory; government and economic life. Publ: Politics of oil, Univ. Chicago, 67; ed, Problems of democratic citizenship; contrib, Dissenting academy, Pantheon, 68. Address: Dept. of Political Science, Queens College, Flushing, N.Y. 11367.

ENGLISH, DEAN EARL FRANKLIN, b. Lapeer, Mich, Jan. 29, 05; m. 29; c. 2. PSYCHOLOGY. A.B, West. Mich. State Teachers Col, 28, B.S, 32; Purdue, 32-33; M.A, Iowa, 37, Ph.D.(psychol), 44. Assoc. PSYCHOL. OF ADVERT, Iowa, 42-44; PROF, MISSOURI, 44-, DEAN, 51- Exec. secy. journalism, Am. Coun. Journalism, 45-49; chmn. journalism, Nat. Res. Coun, 45-51; distinguished serv. mem, Soc. Newspaper Eds, 55. Mem, Coun. Ed. Journalism, 65- Freedom Found. Fourth Estate award, 59. Psychol. Asn; Asn. Ed. Journalism (pres, 53); Asn. Schs. & Depts. Journalism (pres, 58). Readability to type faces; readership studies; attitude scales; semantics. Publ: Co-auth, Scholastic journalism, Iowa State Univ, 50, 4th ed, 67. Address: 100 Neff Hall, University of Missouri, Columbia, Mo. 65201.

ENGLISH, PROF. H(ARRY) E(DWARD), Econ, see 10th ed, Soc. & Behav. Vols.

ENGLISH, RAYMOND, b. Manchester, Eng, Mar. 24, 17; m. 40; c. 2. POLITICAL SCIENCE. B.A, Cambridge, 38, M.A, 57; Henry fel, Harvard, 46-47. Assoc. prof. polit. sci, Kenyon Col, 48-52, prof. & chmn. dept, 52-64; DIR. SOC. SCI. PROG, ED. RES. COUN. AM, 64- Stewart prize, Brit. Army Quart, 47. Brit. Army, 40-46, Res, 46-, Maj. Polit. Sci. Asn; Hist. Soc. Anglo-American anti-slavery movement; British and American constitutional democracy; contemporary political theory and institutions. Publ: Pursuit of purpose; Of human freedom; ed, Essentials of freedom. Address: Educational Research Council of America, Rockefeller Bldg, Cleveland, Ohio 44113.

ENGLISH, PROF. VAN H(ARVEY), b. Miami, Fla, July 18, 14; m. 51; c. 4. GEOGRAPHY. A.B, Colo. State Col. Ed, 36; fel, Clark, 41-42, Ph.D.(geog), 42. Instr. cartog, Clark, 41-42; cartographer, Off. Strategic Serv, D.C, 42-45; geogr, U.S. Dept. State, 45-46; from asst. prof. to PROF. GEOG, DARTMOUTH COL, 46-, chmn. dept, 52-55. Mem, Allied Reparations Cmn. to Moscow, 45. U.S.A, 42-45, Capt. Fel. Asn. Am. Geog; fel. Am. Geog. Soc. Glaciology; regional geography Latin America; cartography. Publ: Introductory economic geography. Address: Dept. of Geography, Dartmouth College, Hanover, N.H. 03755.

ENGQUIST, DR. ERNEST J(OHN), JR, Statist, see 10th ed, Soc. & Behav. Vols.

ENGSTROM, DR. FLOYD H(ARTELENS), b. Saline Co, Kans, Oct. 9, 03; m. 26; c. 1. PSYCHOLOGY. B.A, Colorado, 38, M.A, 39; Ed.D, Pa. State, 59. Personnel consult, Alexander Film Co, Colo, 35-43; center dir, voc. rehab. & ed, Vet. Admin, 46-47; head counseling dept, Missouri, 47-48; counsr, student personnel, Pa. State, 58-59; PSYCHOLOGIST, VET. ADMIN. HOSP, 59- Consult, State Rehab. Serv, Miss, 65-; State Dept. Spec. Ed, 66- U.S.A, 43-46, 48-57, Lt. Col. AAAS; Psychol. Asn; Personnel & Guid. Asn. Evaluation of handicapped; work evaluation; placement of handicapped; group therapy; screening device for long term patients for rehabilitation ward in a neuropsychiatric hospital. Address: Veterans Administration Hospital, Gulfport, Miss. 39501.

ENGWALL, PROF. SWAN A(RVID), Psychol, see 10th ed, Soc. & Behav. Vols.

ENINGER, DR. MAX ULRIC, b. Germany, July 7, 20; nat; m. 47; c. 1. INDUSTRIAL PSYCHOLOGY. B.A, Missouri, 43; M.A, Iowa, 48, Ph.D, 49. Asst. prof. psychol, Carnegie Inst. Tech, 49-52, assoc. prof, 52-57; dir, Personnel Training & Develop. Co, 57-63, sr. res. fel, Am. Inst. Res, 63-65; PRES, ED. SYSTS. RES. INST, 66- Psychol. Asn; Mgt. Asn; Soc. Safety Eng. Industrial accident prevention; management personnel selection, training, development and appraisal; vocational and technical education research. Publ: Fundamentals of accident prevention; Fundamentals of cost control, Normax, 63; Process and product of United States vocational education, Ford Found. Report, 65. Address: 10 Rodgers Dr, Pittsburgh, Pa. 15238.

ENKE, DR. STEPHEN, b. Victoria, B.C, July 15, 16; nat; m. 50; c. 2. ECONOMICS, OPERATIONS ANALYSIS. A.B, Stanford, 37, A.M, 39; M.P.A, Harvard, 40, Littauer fel, 40-41, Ph.D.(econ), 43. Asst. prof. econ, California, Los Angeles, 42-48; res. scientist, Rand Corp, Calif, 48-53, head logistics dept, 53-58; vis. prof. econ, Yale, 59-60; Cape Town, S.Africa, 61; prof, Duke, 61-62; exec. secy. res. cmt, Inst Defense Anal, 63-65; dep. asst. secy. defense & econ, Off. Secy. Defense, 65-66; MGR. ECON. & SPEC. STUDIES, TECH. MIL. PLANNING OPERS, GEN. ELEC. CO, 67- Guggenheim fel, 55-56. Consult, Ford Found, N.Y, 59; opers. eval. group, Off. Chief Naval Opers, 62-; Rand Corp, 67-; Off. Secy. Defense, 67-; Agency Int. Develop, State Dept, 67-; Bur. Budget, 67- Econ. Asn; Opers. Res. Soc. Control of birth rates in overpopulated countries through economic incentives; economic growth in backward countries. Publ: Intermediate economic theory; Economics of government payments to limit population, Econ. Develop. & Cultural Change; Government-industry development of a commercial supersonic transport, Am. Econ. Rev, 5/67. Address: P.O. Box QQ, Santa Barbara, Calif. 93102.

ENLOE, DR. CYNTHIA H, b. New York, N.Y, July 16, 38. POLITICAL SCIENCE. B.A, Conn. Col, 60; univ. grant, California, Berkeley, 62-63, M.A, 63, univ. fel, 64-65, Fulbright grant, 65-66, Ph.D.(polit. sci), 67. Acting instr. POLIT. SCI, California, Berkeley, 66-67; ASST. PROF, MIAMI (OHIO), 67- Asn. Asian Studies; Polit. Sci. Asn. Politics of southeast Asia, especially Malaysia; ethnic pluralism in political development. Publ: Multi-ethnic politics: the case of Malaysia, Inst. Int. Studies, Berkeley, 68. Address: Dept. of Government, Miami University, Oxford, Ohio 45056.

ENMAN, PROF. JOHN A, b. Newton, Mass, Sept. 11, 21; m. 57. GEOGRAPHY. B.A, Maine, 43; A.M, Harvard, 48; Ph.D.(geog), Pittsburgh, 62. Asst. prof. geol. & geog, Washington & Jefferson Col, 48-59; PROF. GEOG, BLOOMSBURG STATE COL, 59- Consult, Pa. Hist. & Mus. Cmn, 64- U.S.A.A.F, 43-46, Sgt. Asn. Am. Geog. Historical geography of mining areas and settlement and population patterns associated with them. Publ: Rise and decline of Connellsville coke region, Proc. Pa. Acad. Sci, 65. Address: Dept. of Geography, Bloomsburg State College, Bloomsburg, Pa. 17815.

ENNIS, PROF. GEORGE WILLIAM, b. Pasadena, Calif. Nov. 13, 07; m. 40; c. 1. PSYCHOLOGY. A.B, Pomona Col, 29; M.S.Ed, Southern California, 35; Ed.D.(psychol), Oregon State, 55. Counsr. & teacher, pub. schs, Calif, 32-42; dean men, LEWIS & CLARK COL, 46-51, PROF. PSYCHOL, 53- Voc. expert, bur. hearings & appeals, Soc. Security Admin, 62- U.S.N.R, 42-65, Capt. Psychol. Asn; Int. Soc. Clin. & Exp. Hypnosis. Clinical counseling; interest testing. Publ: Traffic safety education for public schools, Pasadena City Schs, 36; co-auth, Cultural interest profile, 53 & Specialization interest profile, 63, privately pub. Address: Dept. of Psychology, Lewis & Clark College, Portland, Ore. 97219.

ENNIS, PROF. J(AMES) HAROLD, Sociol, Econ, see 10th ed, Soc. & Behav. Vols, deceased 65.

ENNIS, PROF. PHILIP H, b. Baltimore, Md, June 8, 25. SOCIOLOGY. B.A, Hopkins, 48; M.A, Harvard, 50; Ph.D.(sociol), Columbia, 62. Asst. physiol. psychol, Harvard, 49-50; res. analyst, spec. consumer res. proj. for Elmo Roper, 51; res. asst, bur. appl. soc. res, Columbia, 52-54, proj. dir, 54-56, teacher training sem. concepts & procedures of decision anal, 54; res. assoc, law sch, Chicago, 57-60, asst. prof, grad. library sch, 60-67, sr. study dir, nat. opinion res. center, 65-67; PROF. SOCIOL, WESLEYAN, 67- U.S.A, 43-45, Sgt. Sociol. Asn; Asn. Pub. Opinion Res. Literacy; cultural institutions; expressive symbolism. Publ: Co-ed, Seven questions about the profession of librarianship, Univ. Chicago, 62; auth, Adult book reading in the United States, Nat. Opinion Res. Center, Univ. Chicago, 65; Ecstasy and everyday life, J. Sci. Study Relig, Vol. VI, No. 1. Address: Dept. of Sociology, Wesleyan University, Middletown, Conn. 06457.

ENNIS, DR. THOMAS ELMER, JR. b. Salisbury, N.C, Jan. 1, 30; m. 59. ACCOUNTING, BUSINESS ADMINISTRATION. B.S, North Carolina, 52, M.B.A, 55; Ph.D.(bus. admin), Michigan, 64. Instr. ACCT, WASHINGTON & LEE, 55-57, asst. prof, 58-64, ASSOC. PROF, 65- U.S.A, 52-53. Acct. Asn; Nat. Asn. Acct. Managerial accounting; management services performed by certified public accountants. Address: Dept. of Accounting, Washington & Lee University, Lexington, Va. 24450.

ENOCH, DR. J. REX, b. Detroit, Mich, Sept. 24, 37; m. 61; c. 1. SOCIOLOGY. B.S, Union (Tenn), 59; M.A, Arkansas, 61; Ph.D.(sociol), Texas, 65. Asst, prof. sociol, Memphis State, 62-64, asst. prof. & consult, bur. soc. res, 65-66; ASST. PROF. SOCIOL, LA. STATE, 66- Summers, Col-Bus. Exchange Prog. managerial consult, Pet Milk Co, Mo, 66, consult, Nat. Defense Ed. Act Inst. Teachers English in Sec. Schs, Memphis State, 67. Sociol. Asn. Industrial sociology; social organization; sociology of leisure; bilingual education in public schools; social change. Publ: Aid to families with dependent children, Bur. Soc. Res, Memphis State Univ, 8/65; The effects of technological advancement in the management information system on corporate management, Mgt. Info. Serv. Report, Pet Milk Co, 8/66; co-auth, On the meaning of group cohesion, Southwest. Social Sci. Quart, 9/67. Address: Dept. of Sociology, Louisiana State University, Baton Rouge, La. 70803.

ENOCHIAN, ROBERT V(AUGHN), b. Fresno, Calif, Jan. 4, 21; m. 45; c. 2. ECONOMICS. B.A, California, 48, M.A, 56. Economist, Giannini Found. Agr. Econ, Univ. California & U.S. Dept. Agr, 48-50, bur. agr. econ, U.S. DEPT. AGR, 51-55, utilization res. prog, 55-65, ECONOMIST & OFFICER-IN-CHARGE, WEST. RES. OFF, ECON. RES. SERV, 65- U.S.A, 42-46. Sgt. Agr. Econ. Asn; Inst. Food Tech. Domestic and foreign agricultural economics research and administration; measurement of efficiency in food marketing and analysis of economic impacts of new agricultural products and processes. Publ: Co-auth, Cost and efficiency of packing western head lettuce, Calif. Agr. Exp. Sta, 9/51 & Present and potential use of egg products in the food manufacturing industry, U.S. Dept. Agr, 6/63; The rise, present importance and future of frozen fresh foods, In: The freezing of fresh foods, Avi Pub, 68. Address: 29 Corliss Drive, Moraga, Calif. 94556.

ENOS, DR. FRANCIS ANDREW, b. Maple Plain, Minn, Apr. 21, 20; m. 41; c. 3. PSYCHOLOGY. B.A, Augustana Col, 50; M.S, Illinois, 51; Denver,

51-52; Ph.D, Wisconsin, 58. Instr. & lectr. psychiat, Wisconsin, 55-60, exten. div, 60-61; dir. ed. & indust. serv, Midwest. Psychol. Serv, Inc, 61-63; DIR, ABBOTT PSYCHOL. SERV, 63-; CHIEF PSYCHOLOGIST, WAYLAND GUID. CENTER, PHOENIX, 63- Chief psychologist & acting res. dir, Cent. Wis. Colony & Training Sch, 58-; instr. & lectr, Wisconsin, 61-; proj. dir, Nat. Inst. Ment. Health grant day treatment prog. disturbed children, 64-67. Consult, juvenile & adult courts, 64-; Migrant Opportunity Prog, 67- C.Eng, 41-45, Sgt. Psychol. Asn. Community health programs; self development; training laboratories for management. Publ: Manual for family financial counseling, CUNA, Int, 63; Relationships between intelligence and emotions in public school children, Am. J. Ment. Deficiency; Psychological factors in enuresis, Am. J. Psychiat, 67. Address: 109 E. Santa Cruz Dr, Tempe, Ariz. 85281.

ENOS, DR. JOHN L(AWRENCE), b. Cambridge, Mass, July 13, 24; m. 59; c. 3. ECONOMICS. S.B, Mass. Inst. Tech, 49, Ph.D, 58; Fulbright award, 52-53; Goodyear fel, 53-54; M.A, Western Reserve, 56; M.A, Oxford, 66. Sr. res. asst, Fed. Reserve Bank of Cleveland, 53; asst. econ, Mass. Inst. Tech, 54-55, asst. prof. indust. mgt, 55-61; vis. assoc. prof. econ, Indian Inst. Mgt, Calcutta, 61-62; economist, Agency Int. Develop, Ankara, Turkey, 62-63; prof. econ, inst. econ, Univ. Chile, 63-65; economist, Rand Corp, 65-66; FEL. & LECTR. ECON, MAGDALEN COL, OXFORD, 66- Fulbright scholar, Netherlands Sch. Econ; vis. prof, Middle East Tech, Ankara, 62-63. Consult, Rand Corp, 66- U.S.A.A.F, 42-45, 2nd Lt. Am. Econ. Asn; Economet. Soc; Royal Econ. Soc. Economic development; political economy; simulation. Publ: Petroleum progress and profits: a history of process innovation, Mass. Inst. Tech. Press, 62; co-auth, Planning economic development, Addison-Wesley, 68. Address: Magdalen College, Oxford, Eng.

ENRICK, PROF. NORBERT LLOYD, b. Berlin, Germany, Apr. 11, 20; nat; m. 51; c. 2. MANAGEMENT SCIENCE, MATHEMATICAL STATISTICS. B.A, City. Col. New York, 41; M.S, Columbia, 45; Ph.D.(econ), Virginia, 63. Assoc. prof. mgt, Southwest. La. Inst, 46-48; consult. indust. engr, Werner Mgt. Consults, 48-53; head statist. & opers. res, Inst. Textile Tech, 53-60; assoc. prof. bus. admin, Virginia, 60-65; mgt. sci, Stevens Inst. Tech, 65-66; PROF. MGT, KENT STATE, 66- Vis. lectr, Virginia, 58-60. Qm. Gen. Inspection Serv, 44-45. Statist. Asn; fel. Soc. Qual. Control; Asn. Textile Tech; Inst. Mgt. Sci; Opers. Res. Soc; fel. Brit. Textile Inst. Industrial engineering; application of mathematical methods of business and industrial management; operations research; quality control. Publ: Cases in management statistics, 63 & Management operations research, 65, Holt; Management planning: a systems approach, McGraw, 67. Address: 1577 Morris Rd, Kent, Ohio 44240.

ENRICK, DR. RALPH A(RTHUR), Psychol, see 10th ed, Soc. & Behav. Vols.

ENSLEY, DR. GROVER W(ILLIAM), b. Colfax, Wash, Apr. 13, 15; m. 40; c. 4. ECONOMICS. B.A, Washington (Seattle), 37, M.B.A, 38; Sloan fel, Denver, 38, M.S, 40; Ph.D.(econ), N.Y. Univ, 47. Res. economist, Tax Found, N.Y, 40-41; fiscal analyst, U.S. Bur. Budget, 41-46; tech. adv. to Senator Ralph E. Flanders, U.S. Senate, 47-49; exec. dir, joint econ. cmt, U.S. Cong, 49-57; EXEC. V.PRES, NAT. ASN. MUTUAL SAVINGS BANKS, 57- U.S.N, 44-46. Econ. Asn; Statist. Asn; Soc. Pub. Admin; Asn. Bus. Econ; Finance Asn; Royal Soc. Fiscal policy; public administration; legislative-executive relationships. Publ: Role of budgeting in government; Budget for the nation, Soc. Res; Potential economic growth of the United States during the next decade. Address: National Association of Mutual Savings Banks, 200 Park Ave, New York, N.Y. 10017.

ENSMINGER, DR. DOUGLAS, Rural Sociol, see 10th ed, Soc. & Behav. Vols.

ENTENBERG, PROF. ROBERT D, Econ, Mkt, see 10th ed, Soc. & Behav. Vols, deceased 68.

ENTERLINE, PROF. PHILIP E(RNEST), b. Kittanning, Pa, Apr. 25, 21; m. 45; c. 3. SOCIOLOGY, BIOSTATISTICS. B.B.A, Westminster Col.(Pa), 42; M.A, American Univ, 54, Ph.D, 60. Statistician, div. tuberc, U.S. Pub. Health Serv, 46-50, asst. chief prog. anal. sect, div. chronic diseases & tuberc, 50-53, chief statistician, heart disease control prog, 53-59, chief morbidity & health statist. br, div. pub. health methods, 59-61, biomet. & soc. studies, div. occup. health, 61-65; PROF. med. statist, McGill, 65-67; BIOMET, PITTSBURGH, 67- U.S.A.A.F, 42-45. Statist. Asn; Sociol. Asn; Pop. Asn; fel. Pub. Health Asn. Evaluation of public health practices; epidemiology; demography. Address: Dept. of Biostatistics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, Pa. 15213.

ENTINE, DR. ALAN D, b. New York, N.Y, June 30, 36; m. 67. ECONOMICS. A.B, Middlebury Col, 56; Rotary Int. fel, Melbourne, 58; M.A, Columbia, 60, President's & Ford Fels, 61-63, Ph.D.(econ), 63. ASST. PROF. ECON, COLUMBIA, 63-, ASSOC. DEAN SCH. GEN. STUDIES, 67-, asst. dean, 65-67. Consult, N.Y. Moreland Cmn, 63; New York Temporary Cmn. City Finances, 64. U.S.A, 61-62, Res, 62-66. AAAS; Econ. Asn. Monetary theory and policy; macroeconomics; money and banking. Publ: Ed, Monetary economics, Wadsworth, 68; co-auth, Money, debt and economic activity, Prentice-Hall, 68; auth. Holdings of United States Government securities by financial institutions, J. Finance, 64. Address: 416 Lewisohn Hall, Columbia University, New York, N.Y. 10027.

ENTWISLE, DR. DORIS R(OBERTS), b. Wilbraham, Mass, Sept. 28, 24; m. 46; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Massachusetts, 45; M.S, Brown, 46; Ph.D, Hopkins, 60. Asst. math, Harvard, 48-53; Soc. Sci. Res. Coun. fel. HOPKINS, 60-61, res. assoc, depts. elec. eng. & ed, 61-64, asst. prof, SOC. RELS. & ENG. SCI, 64-67, ASSOC. PROF, 67- Grants, Nat. Inst. Ment. Health & Nat. Inst. Child Health & Human Develop, 61-; U.S. Off. Ed, 63, 64-65; vis. lectr, Goucher Col, 64. Psychol. Asn; Psychomet. Soc; Ed. Res. Asn; Sociol. Asn. Methodology of educational experiments; uses of digital computers in social science research and education; development sociolinguistics; engineering education, especially use of new media. Publ: Autoprimer in computer programming, Ginn, 63; Word associations of young children, Johns Hopkins, 66; co-auth, Introductory systems and design, Ginn, 68. Address: 426 Ames Hall, Johns Hopkins University, Baltimore, Md. 21218.

ENZER, DR. HYMAN A, b. Elizabeth, N.J, July 29, 16; m. 52; c. 2. SOCIOLOGY. A.B, Union (N.Y), 38; M.A, N.Y. Univ, 55, Ph.D.(sociol), 63. Res. asst, N.Y. State Senate, 38-41; legis. correspondent, Lanning News Bur, N.J, 41-42; reporter, Elizabeth Daily J, 42-43 & 46-50; from lectr. to ASSOC. PROF. SOCIOL, HOFSTRA, 50- Am. Coun. Learned Socs. grant-in-aid, 66-67. Consult, Roslyn Sch. Bd, N.Y, 58-59; Russell Sage-Univ. Wisconsin Prog. Soc. Sci. Writing, 64-66. Mem, Joint Legis. Cmn. Ment. Deficiency, N.J, 50-54. U.S.A.A.F, 43-46, Capt. Sociol. Asn. Sociology of communications; sociology of literature and the arts. Publ: Co-auth, Mental deficiency in N.J, State N.J, 54; auth, Social science writing program at U of Wisconsin, Monogr, Russell Sage, 66. Address: Dept. of Sociology, Hofstra University, Hempstead, N.Y. 11550.

EPLEY, PROF. DEAN G(EORGE), b. Carrollton, Ohio, Nov. 9, 17; m. 41; c. 7. SOCIOLOGY, ANTHROPOLOGY. B.S, Kent State, 47, M.A, 50; Ph.D.(sociol, anthrop), Mich. State, 53. Asst. sociol, Mich. State Col, 50-51, soc. res. serv, 51-52; asst. prof. sociol, Memphis State Col, 52-54; prof. human rel. & chmn. dept, Miami (Fla), 54-61; prof. sociol. & dir. guid. center, Concord Col, 61-64; PROF. SOCIOL. & HEAD DEPT, BRADLEY, 64- Consult, State Dept. Pub. Instr, Mich, 51-52. Fel. Sociol. Asn; Soc. Study Social Probs; fel. Soc. Appl. Anthrop. Social psychology, especially culture and personality and intergroup relations; social psychiatry; comparative social institutions and cross-cultural research; cultural anthropology; sociological theory. Publ: Human relations in higher education; An annotated bibliography in human relations; co-auth, Exercises and experiments in the sociological tradition, Kaufman, 65. Address: 918 N. Cooper St, Peoria, Ill. 61606.

EPP, PROF. A(BRAM) W, b. Beatrice, Nebr, Feb. 4, 07; m. 34; c. 2. AGRICULTURAL ECONOMICS. B.S, Nebraska, 33, M.A, 37; Ph.D, Minnesota, 50. Asst. prof. AGR. ECON, Colorado State, 41-43; NEBRASKA, 43-50, assoc. prof, 50-57, PROF, 57-, Consult, U.S. Bur. Census, D.C, 56. Agr. Econ. Asn. Adjustments in farm organization in the Great Plains; problems in irrigation; wheat farming; cattle ranching. Publ: Co-auth, Profit maximizing farm plans for southeast Nebraska, 4/65 and Optimal farm organizations for irrigated farms in South Central Nebraska, 2/66, Nebr. Bull. Address: Dept. of Agricultural Economics, University of Nebraska, Lincoln, Nebr. 68503.

EPP, DR. DONALD J(AMES), b. Hastings, Nebr, June 23, 39; m. 61; c. 1. AGRICULTURAL ECONOMICS. B.S, Nebraska, 61; Nat. Defense Ed. Act fel, Mich. State, 62-64, M.S, 64, Ph.D.(agr. econ), 67. Res. assoc. AGR. ECON, Mich. State, 65-66, instr. 66-67; ASST. PROF, PA. STATE, 67- U.S.A, 61-62, 1st Lt. Agr. Econ. Asn; Econ. Asn. International agricultural trade policy; resource economics and regional development; agricultural policy. Publ: The impact of agricultural policies on regional grain and livestock prices in the EEC, 67 & Changes in regional grain and livestock prices under the European economic community policies, 68, Mich. State Univ. Address: Dept. of Agricultural Economics, Pennsylvania State University, University Park, Pa. 16802.

EPPERSON, PROF. TERRY E(LMER), JR, b. Johnson City, Tenn, June 10, 24; m. 50. GEOGRAPHY. B.S, E.Tenn. State Col, 50; M.S, Kentucky, 52; Ph.D, Tennessee, 60. Prin. teacher, Wash. County Pub. Sch, 50-51, instr, 52-55; instr. geog, Kentucky, 52; civics, Johnson City Jr. High Sch, 55-56; GEOG, E.Tenn. State Col, 56-58; Tennessee, 58-60; assoc. prof, Austin Peay State Col, 61-62; PROF, APPALACHIAN STATE, 62- U.S.A.A.F, 43-45, Sgt. Geog. Soc; Asn. Am. Geog. Urban and industrial geography. Publ: Geographical factors influencing the manufacturing industries of upper East Tennessee. Address: Dept. of Geography & Geology, Appalachian State University, Boone, N.C. 28607.

EPPS, DR. EDGAR G(USTAVUS), b. Little Rock, Ark, Aug. 30, 29; m. 59; c. 2. SOCIOLOGY. A.B, Talladega Col, 51; M.A, Atlanta, 55; Ph.D, Washington State, 59. Asst. prof. sociol, Tennessee State, 58-59, assoc. prof, 59-61; prof, Fla. Agr. & Mech, 61-64; res. assoc, inst. soc. res. & from lectr. to assoc. prof. psychol, Michigan, 64-67; ASSOC. DIR. CARVER RES. FOUND, TUSKEGEE INST, 67- U.S.A, 51-53. Sociol. Asn; Soc. Psychol. Study Social Issues; Soc. Study Social Probs. Social stratification; juvenile delinquency; race relations; achievement motivation and values. Publ: Co-auth, Relation of mother's employment to intellectual performance of Negro college students, Soc. Probs, 64; Effect upon Negro digit-symbol performance of anticipated comparison with whites and other Negroes, J. Abnorm. & Soc. Psychol, 64; auth, Socioeconomic status, race, level of aspiration and juvenile delinquency: a limited empirical test of Merton's conception of deviation, Phylon, 67. Address: Division of Behavioral Science Research, Tuskegee Institute, Ala. 36088.

EPPSTON, PROF. HAROLD ARTHUR, b. Brooklyn, N.Y, Dec. 27, 97; m. 40; c. 1. PUBLIC FINANCE, ECONOMICS. B.C.S, N.Y. Univ, 18, M.C.S, 20, B.S, 24; LL.B, Fordham, 22. Prof. ACCT. & TAXATION, GRAD. SCH. BUS. & SCH. COMMERCE, ACCTS. & FINANCE, N.Y. UNIV, 46-63, EMER. PROF, 63- Prof, Stonier Grad. Sch. Banking, Rutgers, 64-66. Econ. Asn; Tax Inst; Economet. Soc. Accounting; economics. Publ: Handbook of accounting methods. Address: 267 Beech Spring Rd, South Orange, N.J. 07079.

EPSTEIN, PROF. AUBREY, Audiol, Speech Pathol, see 11th ed, Phys. & Biol. Vols.

EPSTEIN, DR. BART J(ACOB), b. New York, N.Y, May 26, 24; m. 50; c. 3. GEOGRAPHY. B.S, Cornell, 48; M.A, George Washington, 53; scholar, Clark, 52-53, Ph.D, 56. Jr. soil scientist, bur. plant indust, U.S. Dept. Agr, Md, 49-50, asst. soil scientist, 50-52; res. assoc. urban geog, grad. sch. geog, Clark, 53-54; mkt. analyst, Stop & Shop, Inc, 54-55, supvr. location res, 55-56, real estate rep, 56-59, mgr. property acquisition, 59-62, sales facilities res, B.F. GOODRICH CO, 62-64, MGR. RETAIL REAL ESTATE, 64- Lectr, Boston, 56-62; instr, Akron, 65-68; Kent State, 66- U.S.A, 43-46, S/Sgt. AAAS; Asn. Am. Geog; Geog. Soc; Mkt. Asn; Regional Sci. Asn; Inst. Planners. Locational science; urban and marketing geography; economics and real estate; market analysis; geographic and marketing education. Publ: Co-auth, Central business district; Evaluation of an established planned shopping center, Econ. Geog; The trading function, In: Metropolis

on the move: geographers look at urban sprawl, Wiley, 67. Address: B.F. Goodrich Co, Real Estate Dept, 500 S. Main St, Akron, Ohio 44318.

EPSTEIN, PROF. BERTRAM, b. New York, N.Y, Dec. 14, 10; m. 32; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, City Col. New York, 29, M.S, 30; Ph.D.(ed. res), Columbia, 47. From res. asst. to assoc. prof. ED, CITY COL. NEW YORK, 31-61, PROF, 61-, DIR. ED. RES. OFF, 53- Lectr, teachers col, Columbia, 47-52. Psychol. Asn; Statist. Asn. Educational and psychological measurement; learning theory; research techniques. Publ: Immediate and retention effects of interpolated rest periods on learning performance. Address: Educational Research Office, City College of New York, New York, N.Y. 10031.

EPSTEIN, PROF. EDWIN M(ICHAEL), b. Philadelphia, Pa, June 24, 37; m. 59; c. 2. BUSINESS ADMINISTRATION. B.A, Pennsylvania, 58; LL.B, Yale, 61; M.A, California, Berkeley, 66. Law clerk, Supreme Court, Pa, 61-62; attorney, 62-64; lectr. BUS. ADMIN, CALIFORNIA, BERKELEY, 64-67, ASST. PROF, 67- Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Bus. Law Asn; Bar Asn. Social, political and legal environment of business; analyzing the relationship between economic organizations and other social institutions in terms of mutual impacts; business and politics; government and business; business social responsibility. Publ: Corporations, contributions and campaigns: federal regulation in policy perspective, Univ. California, Berkeley, 68; Business corporations and the political process, Prentice-Hall, 69. Address: 310 Barrows Hall, University of California, Berkeley, Calif. 94720.

EPSTEIN, DR. HANS L, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

EPSTEIN, HERMAN P(AUL), b. New York, N.Y, Aug. 22, 14; m. 49; c. 1. PSYCHOLOGY. B.S, City Col. New York, 36; M.A, N.Y. Univ, 51. Teacher, New York Bd. Ed, 35-41; employ. counsr, Fedn. Employ. & Guid. Serv, 45-47; voc. counsr, United Serv. for New Am, 47-49; voc. supvr, N.Y. Asn. for New Am, 49-52; rehab. supvr, Jewish Voc. Serv, 52-57, dir. rehab. div, 57-63; CLIN. PSYCHOLOGIST, Rehab. Hosp. County Inst. Milwaukee, 63-65; PSYCHIAT. CLIN, MT. SINAI HOSP. MILWAUKEE, 65- Psychologist sch. nursing, Mt. Sinai Hosp, 56-, epilepsy center, 58-, infertility clin, 61- C.Eng, U.S.A, 43-45. Psychol. Asn. Psychotherapy; psychology of disabilities. Address: 4528 N. Larkin St, Milwaukee, Wis. 53211.

EPSTEIN, DR. JEREMIAH FAIN, b. New York, N.Y, Feb. 14, 24; m. 50; c. 3. ANTHROPOLOGY. B.S, Illinois, 49, M.A, 51; Harrison scholar, Pennsylvania, 52-53, Ph.D.(anthrop), 57. Asst. sociol. & anthrop, Illinois, 49-51; lectr. ANTHROP, Hunter Col, 54-58; res. scientist, TEXAS, 58-60, asst. prof, 60-66, ASSOC. PROF, 66- Res. grants, Nat. Sci. Found. archaeol, 63-65, 65-67; Fulbright Hays, 64-65. U.S.A, 42-45. AAAS; Soc. Am. Archaeol; Anthrop. Asn. Archaeology of northeastern Mexico, Honduras, Arizona, Texas, Illinois, and Maya area, British Honduras; technology of chipped stone working. Publ: Late ceramic horizons in northeastern Honduras; Centipede and damp caves, excavations in Val Verde County, Texas; Dating the Ulua polychrome complex. Address: Dept. of Anthropology, University of Texas, Austin, Tex. 78712.

EPSTEIN, JOSE DAVID, Econ, see 10th ed, Soc. & Behav. Vols.

EPSTEIN, LENORE A(LICE), Econ, Statist, see BIXBY, LENORE EPSTEIN.

EPSTEIN, DEAN LEON D(AVID), b. Milwaukee, Wis, May 29, 19; m. 47. POLITICAL SCIENCE. A.B, Wisconsin, 40, A.M, 41; Ph.D, Chicago, 48. Asst. economist, Nat. Resources Planning Bd, 41-42; asst. prof. POLIT. SCI, Oregon, 47-48; WISCONSIN, 48-51, assoc. prof, 51-54, PROF, 54-, DEAN COL. LETTERS & SCI, 65-, chmn. dept. polit. sci, 60-63. Fund Adv. Ed. fel, 52-53; Soc. Sci. Res. Coun. fel, 57, 63-64; Rockefeller Found. res. grant, 58-59, 63-64. U.S.A, 42-46, Capt. Polit. Sci. Asn. British politics; comparative parties; political theory. Publ: Politics in Wisconsin, Univ. Wisconsin, 58; British politics in the Suez crisis, Univ. Illinois, 64; Political parties in western democracies, Praeger, 67. Address: Dept. of Political Science, University of Wisconsin, Madison, Wis. 53706.

EPSTEIN, PROF. SEYMOUR, b. Brooklyn, N.Y, July 15, 24; m. 49; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 48; M.A, Wisconsin, 51, Ph.D, 53. Res. assoc, Wisconsin, 53; instr. PSYCHOL, MASSACHUSETTS, 53-54, asst. prof, 54-57, assoc. prof, 57-62, PROF, 62- Fel, Worcester Youth Guid. Center, 57-58; vis. prof, Washington (Seattle), summer 65; Harvard, 65-66. Mem. Nat. Inst. Ment. Health small grant cmt, U.S. Pub. Health Serv, 62-66. U.S.A, 43-46. Psychol. Asn; N.Y. Acad. Sci. Anxiety, conflict, aggression; schizophrenia. Publ: Toward a unified theory of anxiety, Academic, 67; Some theoretical considerations on the nature of ambiguity and the use of stimulus dimensions in projective techniques, J. Consult. Psychol, 66; co-auth, Some basic issues concerning the measurement of autonomic arousal as illustrated by the covariation of heart rate and skin conductance, Psychosomatic Med, 67. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01003.

EPSTEIN, PROF. WILLIAM, b. New York, N.Y, Nov. 23, 31; m. 56; c. 1. PSYCHOLOGY. B.A, N.Y. Univ, 55; M.A, New Sch. Soc. Res, 57, Halle fel, 58-59, Ph.D, 59. Asst. prof, PSYCHOL, Kansas, 59-62, assoc. prof, 62-66, PROF, 66-68; WISCONSIN, MADISON, 68- Nat. Sci. Found. sr. fel, 66-67. AAAS; Psychol. Asn. Visual perception; human learning. Publ: Varieties of perceptual learning, McGraw, 67; The known-size-apparent-distance-hypothesis & Influence of syntactical structure on learning, Am. J. Psychol. Address: Dept. of Psychology, University of Wisconsin, Madison, Wis. 53706.

ERASMUS, PROF. CHARLES J(OHN), b. Pittsburgh, Pa, Sept, 23, 21; m. '43; c. 2. ANTHROPOLOGY. A.B, California, Los Angeles, 42, M.A, Berkeley, 50, Ph.D, 55. Field ethnologist, inst. soc. anthrop, Smithsonian Inst, Colombia, 50-52; appl. anthropologist, Inst. Inter-Am. Affairs, Colombia, Haiti, Ecuador & Chile, 53-54; res. assoc. culture change proj, Illinois, 55-59; vis. asst. prof, Yale, 59-60; assoc. prof. sociol. & anthrop, North Carolina, 60-62; ANTHROP, CALIFORNIA, SANTA BARBARA, 62-64, PROF, 64-, chmn. dept, 64-67. Consult, land tenure center, Wisconsin, summer, 63; U.S. Agency Int. Develop, Venezuela, 63-64. U.S.N.R, 42-45, Lt. Anthrop. Asn; Sociol. Asn. Cultural development, Latin America; theory and explanation in anthropology; agrarian reform. Publ: Man takes control: cultural development and American aid; Upper limits of peasantry and agrarian reform, Ethnology, 67; Culture change in northwest Mexico, Vol. III of Contemporary change in traditional societies, Univ. Illinois, 67. Address: Dept. of Anthropology, University of California, Santa Barbara, Calif. 93106.

ERB, DR. DAVID KINSEY, Geol, Geog, see Suppl. V to 11th ed, Phys. & Biol. Vols.

ERB, DR. EMERSON C(LAYTON), JR, b. Wabash, Ind, Aug. 8, 28; m. 51; c. 4. ACCOUNTING, BUSINESS ADMINISTRATION. B.S, Indiana, 52, M.B.A, 55, Am. Risk & Ins. Asn. fel, 57, D.B.A, 61. Auditor, Bendix Aviation Corp, 52-53; teaching assoc. acct, Indiana, 53-55, lectr, 57-58, asst, bur. govt. res, 58-60; instr. acct. & ins, Southern Illinois, 55-57; instr. acct, Bowling Green State, 60-61, asst. prof, 61-64, assoc. prof, 64-65; Abadan Inst. Tech, Iran, 65-67; PROF. ACCT. & FINANCE & HEAD DEPT, EASTERN MICHIGAN, 67- Summers, Found. Econ. Ed. fel, Warner-Swasey Co, 64, vis. assoc. prof, Colorado, 65. U.S.A, 46-47, 50-51, Sgt. Am. Acct. Asn; Econ. Asn; Budget Execs. Inst; Finance Asn; Nat. Asn. Acct. Accounting theory; financial and managerial record and report systems, including electronic data processing for commercial and governmental units. Publ: Administrative practices in Indiana County highway departments; Indiana County highway records and reports manual. Address: Eastern Michigan University, Ypsilanti, Mich. 48197.

ERBE, DR. WILLIAM W, b. McGregor, Iowa, Sept. 14, 30. SOCIOLOGY. B.A, Northern Iowa, 52; M.A, Iowa, 58; Ph.D.(sociol), Chicago, 61. Instr. SOCIOL, Washington State, 60-61; asst. prof, IOWA, 61-66, ASSOC. PROF, 66-, ASSOC. DIR, IOWA URBAN COMMUNITY RES. CENTER, 61- U.S.A, 52-54, Res, 54-61. Sociol. Asn. Political sociology; urban community research; research methodology. Publ: Social involvement and political activity, Am. Sociol. Rev, 4/64; Interest in a peace organization, J. Conflict Resolution, 3/66; Accessibility and informal social relationships, Sociometry, 9/66. Address: Dept. of Sociology, University of Iowa, Iowa City, Iowa 52240.

ERDMAN, DR. HOWARD LOYD, b. Boston, Mass, Aug. 29, 35; m. 62; c. 2. POLITICAL SCIENCE. B.A, Harvard, 58, Lab. Soc. Rels. grant & M.A, 60, Ph.D, 64; Fulbright fel. & Sheldon traveling fel. from Harvard, India, 62-63. Res. fel, comp. studies center, Dartmouth Col, 64-65, asst. prof. govt, 64-66; faculty & sr. res. fels, Am. Inst. Indian Studies, 66-67; ASST. PROF. GOVT, DARTMOUTH COL, 67- Asn. Asian Studies. Indian politics and history. Publ: The Swatantra Party and Indian conservatism, Cambridge Univ, 67; India's Swatantra Party, 64 & Foreign policy views of the Indian right, 67, Pacific Affairs. Address: 223 Silsby Hall, Dartmouth College, Hanover, N.H. 03755.

ERDMANN, DR. JAMES B(ERNARD), b. Springfield, Ill, Oct. 27, 37; m. 64. PSYCHOLOGY. A.B, Pontifical Col. Josephinum, 59; M.A, Loyola (Ill), 64, Ph.D.(psychol), 66. Acting dir. psychomet. lab, LOYOLA (ILL), 63-65, dir. protem proj, 63-66, ASST. PROF. PSYCHOL, PSYCHOL. MEASUREMENT PROG, 66- Co-prin. investr, State of Ill. Dept. Ment. Health, 66-67; prin. investr, U.S. Off. Ed. fel, Swiss Fed. Inst. Tech, 67-68. Psychol. Asn; Psychomet. Soc. Cognition, thought processes; analysis and design of experiments; temporal parameters of behavior. Publ: Temporal parameters of behavior: a psychopharmacological approach, Loyola Univ. Psychomet. Lab, 66; co-auth, A program for the study of thinking, Bull. Int. Asn. Appl. Psychol, 64; co-auth, Problem solving: the process, Psychol. Reports, 67. Address: Dept. of Psychology, Loyola University, 6525 N. Sheridan Rd, Chicago, Ill. 60625.

ERDMANN, DR. ROBERT L(EWIS), b. Burbank, Wash, Dec. 6, 28; m. 50; c. 4. PSYCHOLOGY. B.S, Washington State, 50; Trinity, 52-53; M.A, Columbia, 56, Ph.D, 60. ADV. PSYCHOLOGIST, ADV. SYSTS. DEVELOP. DIV, INT. BUS. MACH. CORP, 59- U.S.A.F, 50-59, Capt. Psychol. Asn. Vision and learning. Publ: Lighting in radar rooms; Affect of neutral density filters upon signal detectability on radar scope, J. Optical Soc. Am; Brightness discrimination with constant duration flashes, J. Exp. Psychol. Address: 2308 Fairglen Dr, San Jose, Calif. 95125.

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ERICKSEN, PROF. E(PHRAIM) GORDON, b. Salt Lake City, Utah, Sept. 7, 17. SOCIOLOGY. B.S, Utah, 38, M.S, 39; Ph.D, Chicago, 47. Instr, California, 47-49; asst. prof. SOCIOL, Kansas, 49-53, assoc. prof, 53-59, prof, 60-65; PROF. & CHMN. DEPT, Tennessee, 65-68; VA. POLYTECH, 68- Consult. community planning & housing, Point IV Prog, East. Caribbean, 54-56. Sociol. Asn; Pop. Asn. Human ecology; urban social organization; demography; fertility of middle classes in Costa Rica; problems of stress under forced relocation. Publ: Urban behavior, Macmillan, 54; West Indies population problem, Kansas Univ, 62; Africa company town, Brown, 64. Address: Dept. of Sociology, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

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ERICKSON, PROF. FRANKLIN C(ARL), b. Worcester, Mass, Dec. 16, 03; m. 36; c. 2. GEOGRAPHY. A.B, Clark Col, 28; M.A, Clark, 30, Ph.D. (geog), 35; Swiss-Am. exchange fel, Zurich, 32-33. Cartographer, Macmillan Co, 28-39; instr. geog. & geol, Dartmouth Col, 30-32; assoc. prof. geog, South Carolina, 35-36; PROF. geol. & geog, North Carolina, 36-47; GEOG, BOSTON, 47-, ASSOC. DEAN, COL. LIB. ARTS, 59- Cartographer, Off. Strategic Servs, 42; chief cartog. sect, Bd. Econ. Warfare, 42-43. Asn. Am. Geog. Land utilization in the United States; political geography of Europe; polar regions. Address: Dept. of Geography, Boston University, Boston, Mass. 02215.

ERICKSON, PROF. GLENN WILLIAM, b. True Twp, Wis, Mar. 17, 16; m. 37; c. 6. PSYCHOLOGY, EDUCATIONAL ADMINISTRATION. B.S, Bemidji State Col, 45; M.A, Minnesota, 56, Ed.S, 57, Ph.D.(ed. admin, psychol), 60. Teacher, high sch, 45-46, prin, 46-47; headmaster, Rethy Acad, Congo, Africa, 47-49; dir, Oicha Boys' Sch, 49-51; supt, Aungba Ecole des Moniteurs, Africa, 51-54; teacher, high sch, Minn, 54-57; PROF. PSYCHOL, Northwest. Col.(Minn), 57-67; EAST. BAPTIST COL, 67- Nat. Sci. Found. fels, Beloit Col, 62 & California, Berkeley, 65. Psychol. Asn. Ethnic background factors in juvenile delinquency of Hawaiian Islands; grade placement of non-vernacular language and readiness for advanced study in schools of central Africa. Publ: Co-auth, Contemporary studies in social psychology and behavior change, Selected Acad. Readings, 65. Address: 5 Brookside Circle, St. Davids, Wayne, Pa. 19087.

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ERICKSON, DR. MARILYN TARA, b. Brockton, Mass, Apr. 39, 36; m. 58; c. 2. PSYCHOLOGY. A.B, Pembroke Col, 57; M.A, Brown, 59; Ph.D.(psychol), Washington (Seattle), 61. Asst. prof. PSYCHOL, NORTH CAROLINA, 61-67, ASSOC. PROF, 67- Nat. Inst. Ment. Health res. grant, 65-66, Nat. Inst. Child Health & Human Develop. spec. fel, 67-68. AAAS; Psychol. Asn; Soc. Res. Child Develop; Asn. Ment. Deficiency. Child development; learning; early experience; prenatal influences; mental retardation. Publ: Effects of social deprivation and satiation on verbal conditioning in children, J. Comp. Physiol. Psychol, 62; Relationship between psychological attitudes during pregnancy and complications of pregnancy, labor and delivery, Proc. Am. Psychol. Asn, 65; Intelligence: prenatal and preconceptual environmental influences, Science, 67. Address: Dept. of Pediatrics, University of North Carolina, Chapel Hill, N.C. 27515.

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ERICKSON, DR. ROBERT PORTER, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

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WASHINGTON, 60-, DIR. INTERDISCIPLINARY SYSTS. & CYBERNET. PROJ, PROG. POLICY STUDIES SCI & TECH, 67- Nat. Invest. Co. grant, 52. Consult, State Dept. Finance & State Dept. Hwys, Ohio. Econ. Asn; Soc. Pub. Admin; Soc. Gen. Syst. Res; Inst. Mgt. Sci; Acad. Mgt; Soc. Cybernet. Investments; public finance; business administration; organization and administration. Publ: The synoptic mind in industry; Toward a universally viable philosophy of management; Rationality and executive motivation. Address: Dept. of Business Administration, George Washington University, Washington, D.C. 20715.

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ERLICH, PROF. A(LEXANDER), b. St. Petersburg, Russia, Nov. 23, 12; nat; m. 38; c. 1. ECONOMICS. Halle fel, 45-46; Soc. Sci. Res. Coun. fel, 47-48; fel, Harvard, 50-54; Ph.D.(econ), New Sch. Soc. Res, 53. Consult, Rand Corp, 49-50; res. assoc. Soviet econ. study, Nat. Bur. Econ. Res, 54-55; vis. lectr. ECON, COLUMBIA, 55-57, vis. assoc. prof, 57-59, assoc. prof, 59-66, PROF, 66- Consult, Nat. Bur. Econ. Res, 55-56. Econ. Asn; Asn. Adv. Slavic Studies. Soviet economy; economy of east central Europe; theory of economic development; Marxian economics. Publ: Soviet industrialization debate, 1924-1928, Harvard 67; Development strategy and planning: the Soviet experience, In: National economic planning, Columbia, 67; Notes on Marxian model of capital accumulation, 5/67, Am. Econ. Rev. Address: 438 W. 116th St, New York, N.Y. 10027.

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ERNST, PROF. HARRY BENJAMIN, b. Boston, Mass, Oct. 25, 21; m. 41; c. 5. BUSINESS ADMINISTRATION. B.S, Boston Col, 50, A.M, 51; Ph.D, Harvard, 55. ASSOC. PROF. ECON, TUFTS, 51- Pres, Ernst Assocs, Inc, 59- Consult, Fed. Reserve Bank of Boston, 57-58; div. res. & statist, Fed. Reserve Bd. Gov, 57-58. U.S.A, 43-46. Original method of forecasting business and security price trends, utilizing modern probability theory and high speed computers. Publ: Functional analysis, plant productivity and efficiency, Productivity Measurement Rev; Index of industrial production for New England, J. Am. Statist. Asn; co-auth, The distribution of stock price differences: Gaussian after all?, Opers Res, 3-4/66. Address: 17 Edgehill Rd, Arlington, Mass. 02174.

ERNST, PROF. ROBERT, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ERON, PROF. LEONARD D, b. Newark, N.J, Apr. 22, 20; m. 50; c. 3. PSYCHOLOGY. B.S, City Col. New York, 41; M.A, Columbia, 46; Ph.D.(psychol), Wisconsin, 49. Asst. prof. psychiat. & psychol, Yale, 48-55; dir. res. & chief psychologist, Rip Van Winkle Found, 55-62; PROF. PSYCHOL, IOWA, 62- Lectr, sch. soc. work, Smith Col, 50-62; asst. clin. prof, Yale, 55-58, res. assoc, 57-60; vis. prof, Free Univ, Amsterdam, 67-68. Ord. Dept, 42-45, 1st Lt. AAAS; fel. Psychol. Asn. Socialization of aggression; epidemiology of mental illness; projective tests; influence of professional education on attitudes. Publ: Co-auth, Experimental approach to projective techniques, Wiley, 65; Classification of behavior disorders, Aldine, 66; Effect of medical education on attitudes, J. Med. Ed. Address: Dept. of Psychology, University of Iowa, Iowa City, Iowa 52240.

ERRERA, DR. PAUL, b. Brussels, Belgium, May 19, 28; U.S. citizen; m. 63; c. 2. PSYCHIATRY. B.S, Harvard, 49, M.D, 53; Columbia, 49-51. Res. PSYCHIAT, SCH. MED, YALE, 54-57, instr, 57-59, asst. prof, 59-63, ASSOC. PROF, 63-; CHIEF SERV. II, CONN. MENT. HEALTH CENTER, 66- Career teacher, 59-61. Consult, Conn. State Receiving Home Boys, 58-60; Conn. State Dept. Welfare, 58-66; Vet. Admin. Hosp, 58-67; Conn. State Prison, 59-61; physician-in-charge psychiat. clin, Yale New Haven Hosp, 59-62, chief, 62-66; consult, Conn. Valley Hosp, 59-63; Cent. Conn. State Col, 60-62. Dipl, Am. Bd. Psychiat. & Neurol, 60. Med.C, U.S.A.R. & Nat. Guard, 54-62, Capt. Psychiat. Asn. Psychotherapy. Publ: Some historical aspects of the concept phobia, Psychiat. Quart, 4/62; co-auth, The training of residents in a community psychiatric clinic, Ment. Hyg, 4/67 & Length of psychotherapy in a university community psychiatric clinic, Arch. Gen. Psychiat, 10/67. Address: Connecticut Mental Health Center, 34 Park St, New Haven, Conn. 06519.

ERSELCUK, PROF. MUZAFFER M(EHMET), Econ, see 10th ed, Soc. & Behav. Vols.

ERSHKOWITZ, DR. MIRIAM (B), b. Elizabeth, N.J, Feb. 28, 38; m. 57; c. 1. POLITICAL SCIENCE. B.S, Wash. Sq. Col, N.Y. Univ, 60; M.A, Rutgers, 63; U.S. Pub. Health Serv. fel. & Ph.D.(polit. sci), Pa. State, 68. ASST. PROF. POLIT. SCI, TEMPLE, 65- Consult, N.Y. New Sch. Soc. Res, 67-68. Polit. Sci. Asn; Soc. Pub. Admin; Air Pollution Control Asn. American political behavior; science and the political process: public administration. Address: 6901 Old York Rd, Philadelphia, Pa. 19126.

ERSKINE, PROF. DAVID (STEUART), b. London, Eng, Dec. 24, 29; Can. citizen; m. 57; c. 2. GEOGRAPHY. B.Sc, Acadia, 48; California, 48-51; M.A, Toronto, 52. Lectr. bot, McGill, 52-53; GEOG, Toronto, 57-65; OTTAWA, 65-66, ASST. PROF, 66- Can. Asn. Geog; Can. Bot. Asn. Geography of Atlantic Canada; plant and agricultural geography; phycology. Publ: Plants of Prince Edward Island, Can. Dept. Agr, 61; The Atlantic region, In: Canada: a geographical interpretation, Methuen, 68. Address: Dept. of Geography, University of Ottawa, Ottawa 2, Ont. Can.

ERSKINE, DR. JANICE M, b. San Antonio, Tex, Feb. 11, 35; m. 66. PSYCHOLOGY. B.A, Baylor, 56, M.A, 57; Ph.D.(psychol), Michigan, 63. Assoc. res. scientist, Am. Insts. Res, 63-65, res. scientist, 65; ASST. PROF. PSYCHOL, HUMBOLDT STATE COL, 65- Psychol Asn. Learning theory; human verbal learning; short-term memory. Publ: Co-auth, First-list retention as a function of the method of recall, J. Exp. Psychol, 65; Utilization of human factors information in the training system area, U.S. Naval Training Device Center, 65. Address: Dept. of Psychology, Humboldt State College, Arcata, Calif. 95521.

ERTELL, PROF. MERTON W(ILLIAM), b. Buffalo, N.Y, Jan. 31, 18; m. 40; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. B.S, Buffalo, 38; M.B.A, 49; fel, Chicago, 51-52, Ph.D.(bus), 55. Lectr. econ. & bus. admin, BUFFALO, 46-52, asst. dean, sch. bus. admin, 46-55, asst. prof. econ. & indust. rel, 52-57, assoc. prof, 57-62; MELVIN H. BAKER PROF. AM. ENTERPRISE, 62-, asst. v. chancellor ed. affairs, 55-65, dean univ. col, 58-60, dir. inst. res, 61-65. Instr, exten. div, Cornell, 48-56. Consult, U.S. Armed Forces Inst, 55. Proj. dir, interinstitutional coop. res. proj, N.Y. State Ed. Dept, 57; staff dir, Gov. Cmn. to study nonpublic higher ed. in Ill, 68-69. U.S.A.A.F, 43-46, Lt. Econ. Asn; Economet. Soc; Indust. Rels. Res. Asn. Business economics and forecasting; industry analysis; comparative economic systems. Publ: Interinstitutional cooperation in higher education. Address: 100 Marjann Terr, Kenmore, N.Y. 14223.

ERTL, DR. JOHN PAUL, b. Budapest, Hungary, Sept. 25, 33; Can. citizen; m. 58. PSYCHOLOGY, BIOCYBERNETICS. B.A, Carleton, 58; M.A, Ottawa (Ont), 61, Ph.D.(psychol), 66. Res. asst. electroencephalog, OTTAWA (ONT), 59-61, res. assoc, 61-65, lectr. psychol, 65-66, asst. prof, 66-67, DIR. CENTER CYBERNET. STUDIES, 67- Prin. investr. & Ont. Ment. Health Found. res. grants, 64-68; Dow Brewery res. lectr, 66; prin. investr. & U.S. Off. Ed. res. contract, 66-68; consult, Ed. Records Bur-Ford Found. res. grant, 67-68. Electrical activity of the human brain in relation to behavior; artificial intelligence. Publ: Detection of evoked potentials by zero crossing analysis, 65 & Evoked potential recovery from tape recorded zero crossings of the EEG, 67, Electroencephalog. & Clin. Neurophysiol; Evoked potentials, neural efficiency and I.Q, Int. Symp. Biocybernet, 68. Address: Center of Cybernetic Studies, University of Ottawa, Ottawa 2, Ont, Can.

ERVIN, DR. FRANK (RAYMOND), Psychiat, see 11th ed, Phys. & Biol. Vols.

ERVIN, PROF. R(OBERT) H(UGH), b. Camden, Ala, July 1, 98; m. 25. EDUCATIONAL PSYCHOLOGY. B.A, Virginia, 18; M.A, Harvard, 20, Ed.M, 23, Ed.D.(ed. psychol), 29. Teacher, high sch, Mass, 20-21; registr, Valparaiso, 21-22; prof. ed. & psychol, Tenn. Col, 24-31; DISTINGUISHED SERV. PROF. PSYCHOL, TROY STATE COL, 31- Prof, Jacksonville State Col, 24; res. fel, Chicago, 40-41; summer, George Peabody Col, 38. Psychology of teaching. Address: Dept. of Education & Psychology, Troy State College, Troy, Ala. 36081.

ERVIN, PROF. ROGER E(DWARD), b. Danbury, Nebr, Oct. 9, 21. GEOGRAPHY. A.B, Washington (Seattle), 47, M.A, 49; Inst. Int. Ed. fel, 51-52; univ. fel, Florida, 53-54, Ph.D.(geog), 54. Instr. GEOG, Delaware, 55-57; asst. prof, FRESNO STATE COL, 57-67, PROF, 67- Mem, Inst. Int. Ed. U.S.A, 42-46. Asn. Am. Geog; Am. Geog. Soc. Geography of Latin America and United States; economic geography. Publ: Industry in the Concepcion area of Chile, Am. J. Econ. & Soc. Address: Dept. of Geography, Fresno State College, Fresno, Calif. 93726.

ERWIN, PROF. C(ARLOS) C(LIFTON), b. Calloway Co, Ky, July 27, 12; m. 43; c. 2. AGRICULTURAL ECONOMICS. A.B, Murray State Col, 39; M.S, Kentucky, 48; fel, Illinois, 48-50, Ph.D.(agr. econ), 52. Asst. prof. agr. econ, Missouri, 50-52; agr. mkt, KENTUCKY, 52-54, ASSOC. PROF. ECON, 57- U.S.A, 42-45. Agr. Econ. Asn; Agr. Hist. Soc; Econ. Asn. Agricultural policy; dairy marketing; cooperative marketing. Publ: Economic position of the dairy industry of Missouri & Marketing cream through cooperative buying station in Missouri, Univ. Mo. Agr. Exp. Sta. Bull; Kentucky's bottle milk industry, Univ. Ky. Agr. Exp. Sta. Bull. Address: Dept. of Economics, University of Kentucky, Lexington, Ky. 40506.

ERWIN, PROF. CLYDE L, Econ, see 10th ed, Soc. & Behav. Vols.

ESCALONA, PROF. SIBYLLE K(ORSCH), b. Berlin, Germany, July 7, 15; nat. CLINICAL PSYCHOLOGY. B.A, Iowa, 36, M.A, 38; Ph.D.(clin. psychol), Columbia, 47. Psychiat. soc. worker, Iowa Psychopath. Hosp, 37-38; psychologist, Mass. Reformatory for Women, 38-40; Southard Sch. & Menninger Clin, Kans, 43-52; assoc. prof. clin. psychol, Kansas, 47-52; asst. prof. psychol, Yale, 52-56; prof. PSYCHOL, ALBERT EINSTEIN COL. MED, YESHIVA, 56-63, RES. PROF, 63-, CHIEF PSYCHOLOGIST, 56- Exec. officer, Found's. Fund Res. Psychiat, 52-56, dir, 56-59; study sect, U.S. Pub. Health Serv, 53-57. AAAS; Psychol. Asn; Soc. Res. Child Develop; Orthopsychiat. Asn. Diagnosis and treatment of mental illness in children; research methodology. Publ: Co-auth, Prediction and outcome: a study in child development; auth, Roots of individuality: normal patterns of infant behavior, Aldene, 67; Problems in psychoanalytic research, Int. J. Psychol. Address: Albert Einstein School of Medicine, Dept. of Psychology, Yeshiva University, New York, N.Y. 10461.

ESCARRAZ, DR. DONALD RAY, b. Chicago, Ill, Nov. 24, 32; m. 52; c. 4. PUBLIC FINANCE, ECONOMICS. B.S, Tampa, 60; M.B.A, Wisconsin, 61; Ph.D.(econ), Okla. State, 64. Asst. prof. econ, Florida, 64-66; ASSOC. PROF. FINANCE, GEORGIA, 66- Sig.C, U.S.A, 53-54, Res, 54-61. Econ. Asn. Price and exchange theory of public finance; economics of health, planning, programming, budgeting systems in government and state taxation. Publ: The price theory of value in public finance, Univ. Florida, 67; co-auth, A reconsideration of the price or exchange theory of public finance, South. Econ. J, 10/64; auth, Wicksell and Lindahl: theories of public expenditure and tax justice reconsidered, Nat. Tax J, 6/67. Address: Dept. of Finance, University of Georgia, Athens, Ga. 30601.

ESCH, DR. LYND J, b. Akron, Ohio, Nov. 7, 25; m. ANTHROPOLOGY, HUMAN ENGINEERING. A.B, Southern California, 48; M.A, Indiana, 50, Ph.D, 53. Develop. engr, W.J. Voit Corp, Calif, 53-56; prod. mgr, Miracle Filter Co, 56-58; sr. res. engr, N.Am. Aviation, Inc, 58-59; supvr. human factors eng, Nortronics Div, Northrop Corp, 59-61; head tech. appln, Astropower, Inc, 61-63; MGR. human eng, Douglas Aircraft Co, 63-66; HUMAN FACTORS ADV. MARINE TECH. DIV. LITTON INDUSTS, 66- Lectr, Southern California, 54-; asst. prof, Long Beach State Col, 56. Anthrop. Asn; Soc. Am. Archaeol; Human Factors Soc; Acad. Polit. & Soc. Sci; fel. Soc. Appl. Anthrop. Development of man-machine systems; structure and management of research and development organizations; computer aided personal subsystem analysis. Publ. Personnel subsystem reliability analysis, Proc. Am. Soc. Qual. Control. Address: 4409 Pepperwood Ave, Long Beach, Calif. 90808.

ESCHENBACH, DR. ARTHUR E(DWIN), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

ESCOBAR, DR. M. GABRIEL, b. Cuzco, Peru, Feb. 8, 21; m. 54; c. 3. CULTURAL ANTHROPOLOGY. Bachellor, Nat. Univ. Cuzco, 47, Dr.(anthrop), 62; Yale, 47-49; Cornell, 62-64. Prof. soc. sci, Puerto Rico, 49-50; consult, Ministry of Pub. Health, Peru, 51-56; field dir. U.S. Opers. Mission, South. Peru Develop. Proj, 57-59, prof. grad. anthrop, Univ. Huamanga, 59-64; dir, Nat. Mus. Peruvian Culture, 65; ASST. PROF. SOC. ANTHROP, PA. STATE, 66- Consult, Inter-Am. Ed. Coop. Serv, U.S. Opers. Mission, Peru, 56; Pan-Am. Sanit. Off, P.R, 63, Peace Corps Training Center, 66. Peruvian Army Res, 42. Anthrop. Asn. Study of peasant cultures; rural political systems; value systems and cultural change in contemporary Peruvian society. Publ: Southern Peru society and culture, South. Peru Develop. Proj. Report, 59; El Mestizaje en la Region Andina, el Caso del Peru, Revista de Indias, Madrid, Spain, 64; Sicaya: Una Comnidad Mestiza del Valle del Mantaro, Univ. San Marcos, Peru, 64. Address: Dept. of Anthropology, Pennsylvania State University, University Park, Pa. 16802.

ESCOFFERY, PROF. AUBREY SPENCER, b. New Haven, Conn, Apr. 10, 23; m. 48; c. 2. PSYCHOLOGY. B.S, Columbia, 50, M.S, 51; fel, Connecticut, 57-58, univ. fel, 66-67, Ph.D.(psychol), 67. Instr. PSYCHOL, VA. STATE COL, 51-53, asst. prof, 53-57, assoc. prof, 59-67, PROF, 67- Lectr, Cent. State Hosp, 55-60, lectr. & consult, psychiat. training prog, 55-57, summers, staff psychologist, 55-59, vis. prof, Connecticut, 67. Res. consult, Conn. Div. Voc. Rehab, 66-67. Psychol. Asn. Experimental psychopathology; personality theory; culture and personality; motivation; attitudes and values of disadvantaged groups. Address: Dept. of Psychology, Virginia State College, Petersburg, Va. 23803.

ESCOLAS, DR. EDMOND LEON, b. Worcester, Mass, June 3, 20; m. 47; c. 5. ECONOMICS, FINANCE. A.B, Assumption Col, 43; M.A, Clark, 47, univ. fel, 49-50, Wall Street fel, 55, Ph.D, 60. Asst. prof. econ, Vermont, 47-51; economist, U.S. Dept. Labor, 51-53; PROF. BUS. ADMIN, WYOMING, 54- U.S.A.A.F, 43-46, Sgt. Econ. Asn; Finance Asn. Economic, social and political study of workmen's compensation systems. Publ: Wyoming's poor, Univ. Wyoming, 65; Guaranteed annual wages; Wyoming's workmen's compensation system. Address: Dept. of Commerce & Industry, University of Wyoming, Laramie, Wyo. 82071.

ESHLEMAN, DR. J. ROSS, b. Mt. Joy, Pa, Apr. 11, 36; m. 58; c. 2. SOCIOLOGY. B.A, Manchester Col, 58; M.S, Ohio State, 60, Nat. Inst. Ment. Health fel, 62-63, Ph.D.(sociol), 63. Res. asst. SOCIOL, Ohio State, 59-60, asst. instr, 60-62; asst. prof, WESTERN MICHIGAN, 63-66, ASSOC. PROF, 66- Res. dir. soc. class factors in col. adjustment married students study, U.S. Off. Ed, 64-65, assoc. investr, teacher mobility, teacher dropout & expectations of family & friends study, 66-67; dir. summer inst. sociol. high sch. teachers, Nat. Sci. Found, 66-67. Sociol. Asn; Nat. Coun. Family Rels; Soc. Study Soc. Probs; Rural Sociol. Soc. Sociology of the family; social psychology; sociology of deviant behavior. Publ: Co-auth, Social class factors in college adjustment of married students, Western Michigan Univ, 65; auth, Soc. class influences on family adjustment patterns of married college students, J. Marriage & Family, 8/67; The influence of social class and children on participation patterns of married college students, Family Life Coordinator, 1-4, 67. Address: Dept. of Sociology, Western Michigan University, Kalamazoo, Mich. 49001.

ESKIN, DR. LAWRENCE DAVID, b. New York, N.Y, Aug. 20, 24; m. 46; c. 2. PSYCHOLOGY. B.A, Long Island, 49; M.A, N.Y. Univ, 50, Ph.D.(res. psychol), 60. Asst. investr. clin. psychol, Off. Naval Res. Proj, N.Y, 50-51; psychometrist, Worcester Youth Guid. Center, Mass, 52-53; staff psychologist, Ohio Penitentiary, Columbus, 54-57; Columbus State Hosp, 57-60, sr. psychologist, 60-61; ward psychologist, Montrose Vet. Admin. Hosp, 61-62; CLIN. PSYCHOLOGIST, adolescent unit, Riker's Island Penitentiary, 63-64; Elmhurst Gen. Hosp, 64-66; RIKER'S ISLAND PENITENTIARY, 66- N.Y. Univ. Founder's Day award, 61. Sig.C, U.S.A, 43-46. Psychol. Asn. Etiology, development, and treatment of character disorders; psychophysical instrument for measuring characterological anomalies. Address: 1853 Loring Place, New York, N.Y. 10453.

ESMAN, PROF. MILTON J, b. Pittsburgh, Pa, Sept. 15, 18; m. 49; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Cornell, 39; Ph.D, Princeton, 42. Mil. govt. officer, govt. sect, gen. hqs, Supreme Commander Allied Powers, 45-46; prog. planning officer, U.S. Civil Serv. Cmn, 47-51; intel. res. officer, U.S. State Dept, 51-54; int. rels. officer, int. coop. admin, 54-57; chief prog. officer, U.S. Oper. Mission, Vietnam, 57-59; assoc. prof. pub. & int. affairs, dir. econ. & soc. develop. prog, PITTSBURGH, 59-66, PROF. PUB. & INT. AFFAIRS, 62-; FORD FOUND. SR. ADV. DEVELOP. ADMIN, KUALA LUMPUR, 66- U.S.A, 42-46. Polit. Sci. Asn; Soc. Int. Develop. Political, social, economic and administrative development of the newly independent and less industrialized countries; planning and administration of United States and international technical and economic assistance activities overseas. Publ: Needed: an education and research base to support America's expanded commitments overseas. Address: Ford Foundation, P.O. Box 2255, Kuala Lumpur, Malaysia.

ESON, PROF. MORRIS E(SRIEL), b. Montreal, Que, Apr. 18, 21; nat; m. 43; c. 4. PSYCHOLOGY. B.S, Ill. Inst. Tech, 42; A.M, Chicago, 44, Ph.D. (human develop), 51. Instr. psychol, George Williams Col, 48-51; PROF. PSYCHOL, STATE UNIV. N.Y. ALBANY, 51-, CONSULT. PSYCHOLOGIST, ALBANY MED. CENTER, 62-, acting dir. dept. ed, Univ, 53, chmn. dept, 56-66. Lectr, Chicago, 49-51; Fulbright res. scholar, Israel, 57-58. U.S.A, 45-47, Capt. AAAS; Psychol. Asn. Child development; classroom learning; language and cognitive development. Publ: Psychological foundations of education, Holt, 64; Diagnostic implications of a study in time perception & Life space: its content and temporal dimensions, J. Gen. Psychol. Address: Dept. of Psychology, State University of New York at Albany, Albany, N.Y. 12203.

ESPENSCHADE, DR. ANNA S(CHOLL), b. Mifflintown, Pa, Mar. 4, 03. PSYCHOLOGY. A.B, Goucher Col, 24; M.S, Wellesley Col, 26; Ph.D.(psychol), California, 39. Instr. phys. ed, Syracuse, 26-28; assoc, CALIFORNIA,

BERKELEY, 28-31, asst. supvr, 31-39, asst. prof, 39-42, assoc. prof. & res. fel, 42-51, prof. phys. ed. & res. assoc, inst human develop, 51-62, PROF. PHYS. ED. & V.CHMN. DEPT, 60- Fel. Psychol. Asn; fel. Soc. Res. Child Develop; fel. Asn. Health, Phys. Ed. & Recreation. Motor development and performance; physical abilities; physical fitness. Publ: Co-auth, Motor development, Merrill, 67. Address: Hearst Gymnasium, University of California, Berkeley, Calif. 94720.

ESPENSHADE, PROF. EDWARD B(OWMAN), JR, b. Chicago, Ill, Oct. 23, 10; m. 39; c. 2. GEOGRAPHY. B.S, Chicago, 31, M.S, 32, Ph.D.(geog), 44. Jr. geologist, Ill. Geol. Surv, 32-33; curator maps, Chicago, 33-40, instr. geog, 37-42, col. adv, 40-42; for. map ed, Army Map Serv, 42-44; consult, intel. div, Corps Eng, U.S. Army, 44-45; asst. prof. GEOG, NORTHWESTERN, 45-46, assoc. prof, 46-54, PROF, 54-, CHMN. DEPT, 58- Cartog. consult, Rand McNally & Co, 46-; consult, Field Enterprises, 63- Ed, Goode's World Atlas. Chmn. designate, earth sci. div, Nat. Acad. Sci-Nat. Res. Coun, 58-60, chmn, 60-62; mem. steering cmt, earth sci.curriculum proj, Am. Geol. Inst, 64-67. Asn. Am. Geog.(v.pres, 63-64, pres, 64-65); Geog. Soc; Asn. Asian Studies; Cong. Surv. & Mapping; Geophys. Union. Cartography; map intelligence; geography of southern Asia. Address: Dept. of Geography, Northwestern University, Evanston, Ill. 60201.

ESPENSHADE, ESTHER ELIZABETH, b. Chicago, Ill, Apr. 28, 09. STATISTICS. Ph.B, Chicago, 29, M.A, 31. Statistician, DIV. STATIST. & RES, STATE DEPT. LABOR, ILL, 31-49, CHIEF, 49- Labor and employment. Publ: Statistical program of a state department of labor; Need for uniformity of statistical techniques in labor statistics; Use of injury and inspection statistics to promote industrial safety. Address: 1225 16th St, Wilmette, Ill. 60091.

ESPER, PROF. ERWIN A(LLEN), b. Columbus, Ohio, Aug. 14, 95; m. 18; c. 1. PSYCHOLOGY. B.A, Ohio State, 17, M.A, 20, fel, 22-23, Ph.D.(psychol), 23; Vienna & Hamburg, 24. Instr, PSYCHOL, Ohio State, 20-25; asst. prof, Illinois, 25-27; assoc. prof, WASHINGTON (SEATTLE), 27-34, prof, 34-60, EMER. PROF, 60- U.S.A, 18. Fel. AAAS; fel. Psychol. Asn; Ling. Soc. Language; history of psychology. Publ: A History of psychology, Saunders, 64; A technique for the experimental investigation of associative interference in artificial linguistic materials, Lang. Monogr; Mentalism and objectivism in linguistics, Am. Elsevier, 68. Address: P.O. Box 118, Index, Wash. 98256.

ESPOSITO, DR. BRUCE JOHN, b. New York, N.Y, Feb. 9, 41; m. 65. POLITICAL SCIENCE, HISTORY. B.A, Brooklyn Col, 61; M.A, American Univ, 64, Ph.D.(Far East hist), 68; Washington (Seattle), 62-66. RES. ANALYST, RES. ANAL. CORP, 66-; CONSULT. CHINA, U.S. DEPT. STATE, 68- Asn. Asian Studies; Hist. Asn; Polit. Sci. Asn; Royal Cent. Asian Soc. Modern Chinese political-military developments and relationships; Sino-Soviet relations; political developments in China in the nineteen twenties. Address: 2800 Wisconsin Ave. N.W, Washington, D.C. 20007.

ESSENE, PROF. FRANK J, b. Glendive, Mont, Jan. 23, 08; m. 35; c. 2. ANTHROPOLOGY. A.B, California, 34, Ph.D.(anthrop), 47. Asst. ANTHROP, California, 37-40, 45-46; instr, Texas, 46-47; asst. prof, KENTUCKY, 47-48, assoc. prof, 48-57, PROF, 57-, Head dept, 57-66. Summers, instr. & asst. prof, Washington (St. Louis), 47-48, assoc. prof, California, 54, 61, res. assoc, Oregon, 59, prof, California, Berkeley, 64. Ord.C, 41-45, Capt. Fel. Anthrop. Asn; Soc. Am. Archaeol; Ethnol. Soc.(treas, 65-). Ethnology of California Indians, Eskimo, Navajo and Baganda; mythology, applied anthropology in education. Publ: Culture element distributions: 21, Round Valley; co-auth, Societies around the world; co-auth, Navajo population: an analysis of the 1960 census, Southwest. J. Anthrop, 63. Address: Dept. of Anthropology, University of Kentucky, Lexington, Ky. 40506.

ESSMAN, DR. WALTER B(ERNARD), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl II & IV.

ESTABROOKS, PROF. G(EORGE) H(OBEN), b. St. John, N.B, Dec. 16, 95; nat; m. 33; c. 1. PSYCHOLOGY. A.B, Acadia, 20; dipl, Oxford, 24; Ph.D. (psychol), Harvard, 26. Prof. PSYCHOL, Springfield Col, 26-27; assoc. prof. COLGATE, 27-35, prof, 35-64, chmn. dept, 39-64, EMER. PROF, 64- Vis. prof, State Univ. N.Y. Col. Oswego, 64-66; Monmouth Col, 66-67; R.I. Col, 67-68. Psychol. Asn; Soc. Clin. Hypnosis; Soc. Clin. & Exp. Hypnosis. Placement; racial intelligence; abnormal psychology; hypnosis in juvenile delinquency and business training. Publ: Hypnotism, 42, rev. 57 & Future of the human mind, 62, Dutton; ed, Hypnosis current trends, Harper, 60. Address: Dept. of Psychology, Colgate University, Hamilton, N.Y. 13346.

ESTEL, PROF. LEO (ARTHUR), Phys. Anthrop, see 10th ed, Soc. & Behav. Vols.

ESTENSON, PROF. LYLE O(SBERN), b. Galesburg, N.Dak, Dec. 28, 15; m. 43; c. 4. EDUCATIONAL PSYCHOLOGY. A.B, Luther Col, 36; M.A, Iowa, 42; Ph.D.(ed. psychol), Minnesota, 51. Asst. prof. ed, Purdue, 48-52; assoc. prof. PSYCHOL. & ED, CARLETON COL, 52-57, PROF, 57-, CO-CHMN. DEPT, 52- Consult, Nat. Asn. Standard Med. Vocabulary, 65- Summers, vis. prof, Chico State Col, Minnesota, Texas, Montana, Mich. State, Hawaii, Colorado, Rochester, Northern Iowa. U.S.A, 42-45. Fel. AAAS; Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed. Psychotherapy; personality testing; educational selection. Address: 407 Oak St, Northfield, Minn. 55057.

ESTEP, DR. M(ARGARET) FRANCES, b. Peru, Ind, Feb. 5, 22. PSYCHOLOGY. B.S, Purdue, 45; M.A, Wayne, 48; Michigan & Detroit, 49; Ph.D.(psychol), Ohio State, 51. Supvr. field advert, div. distribution, Procter & Gamble Co, 42, div. mfg, 43-44; asst. retailing, J. Hudson Co, 45-46; res. assoc. psychol, Roger Bellows & Assocs, 47-49, psychologist, 51-53; Psychol. Serv. of Pittsburgh, Pa, 54; private practice, 55-57; PRES, ESTEP & ASSOCS, INC, 57- Res. assoc, Wayne, 47-49, 50-52, spec. instr, 47-49, 51-52; Marygrove Col, 49; asst, Ohio State, 49-50; lectr, Queens Col.(N.Y), 62- Psychol. Asn. Psychology in advertising and market research; personnel research; military personnel research. Publ: Co-auth, Employment psychology: the interview; auth, What programs make people buy?, Printer's Ink; Simplification of combat air crew criteria with speical reference to rank order ratings, Dissertation Abstracts. Address: Estep & Associates, Inc, 114-16 E. 71st St, New York. N.Y. 10021.

ESTERLY, DEAN GEORGE R(OBERTS), b. Topeka, Kans, Aug. 13, 01; m. 29; c. 1. BUSINESS ADMINISTRATION. A.B, Kansas, 23; M.B.A, Harvard, 25. Mem. faculty econ, Arkansas, 25-26; mkt, Northwestern, 26-27; Pittsburgh, 27-29; prof. bus. mgt. & dean SCH. BUS. ADMIN. RUTGERS, 29-65, EMER. DEAN, 65- Trustee, Newark Acad, 54- Address: 18 Washington Place, Newark, N.J. 07102.

ESTERLY, DR. HENRY H(ERMON), b. Wyomissing, Pa, Feb. 15, 17; m. 42; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Muhlenberg Col, 39; Colgate, 47-48; M.A, Clark, 48; Ph.D.(int. rels, law), Columbia, 65. From instr. to ASSOC. PROF. AM. GOVT, CONTEMPORARY EUROPE & INT. RELS, NEW YORK COMMUNITY COL, 48- U.S.N.R, 40-46, Lt. Comdr. Polit. Sci. Asn; Acad. Polit. Sci; Am. Soc. Int. Law. Modern European and East Asian diplomatic history; British Commonwealth of Nations. Publ: Brief course in international relations; Student outline for American government; Japan's reentry into pelagic fisheries: 1945-1952, In: Proc. Second Annual Conf. Law of Sea Inst, Univ. Rhode Island, 67. Address: 444 King's Highway, Tappan, N.Y. 10983.

ESTES, PROF. BETSY WORTH, b. Winchester, Ky, Jan. 21, 09; m. 32; c. 2. PSYCHOLOGY. A.B, Kentucky, 29, M.A, 45, Ph.D.(psychol), 50. Instr. PSYCHOL, KENTUCKY, 49-51, asst. prof, 51-55, assoc. prof, 55-60, PROF, 60- Psychol. Asn; fel. Soc. Res. Child Develop. Child psychology; intelligence testing. Publ: Influence of socioeconomic status on Wechsler intelligence scale for children, J. Consult. Psychol; Monetary reward and motivation in discrimination learning, J. Exp. Psychol; Judgement of size in relation to geometric shape, Child Develop. Address: Dept. of Psychology, University of Kentucky, Lexington, Ky. 40506.

ESTES, DR. KATHERINE WALKER, b. Omaha, Nebr, Aug. 23, 17; m. 42; c. 2. PSYCHOLOGY. B.A, Stanford, 38, M.A, 40; Ph.D, Minnesota, Minneapolis, 45. Statistician, U.S. Army Signal Corps, Mo, 44-45; lectr. PSYCHOL, Indiana, 61-62; RES. ASSOC, STANFORD, 68- Programmer, Air Force Ling. Proj, Indiana Univ, 61-63; asst. to ed, J. Comp. & Physiol. Psychol, 63-Soc. Res. Child Develop; Statist. Asn; Asn. Comput. Mach; Psychomet. Soc. Experimental psychology; child development; statistics. Address: 900 Lathrop Dr, Stanford, Calif. 94305.

ESTES, DR. ROBERT EDMUND, b. Los Angeles, Calif, Mar. 11, 31; m. 52; c. 2. PSYCHOLOGY. B.A, California, Santa Barbara, 54; M.A, Southern California, 60; Ph.D.(child psychol), Iowa, 63. Asst. prof. PSYCHOL, State Univ. N.Y. Plattsburg, 63-64; Montana State, 64-65; assoc. prof, Hampden-Sydney Col, 65-66; res. assoc, Univ. Iowa Hosps, 66-67; ASST. PROF, SOUTHERN METHODIST, 67- U.S.A, 54-57, Lt. Motivation and learning in children. Address: Dept. of Psychology, Southern Methodist University, Dallas, Tex. 75222.

ESTES, PROF. WILLIAM K(AYE), Psychol, see 11th ed, Phys. & Biol. Vols.

ESTEY, DR. MARTEN S, b. Lafayette, Ind, Aug. 13, 18; m. 42; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. B.Sc, Purdue, 40; M.A, Princeton, 47, Ph.D.(econ), 52. Jr. economist, U.S. Bur. Labor Statist, 42; wage analyst, Nat. War Labor Bd, 42; res. asst, Am. Fedn. Labor, 42-44; economist, U.S. Dept. State, 44-47; lectr. labor econ, American Univ, 47-48; asst. prof. labor rels, N.Y. State Sch. Indust. & Labor Rels, Cornell, 48-52; lectr. econ, Mich. State, 52-56; ASSOC. PROF. INDUST, PENNSYLVANIA, 56- Consult, trade union proj, Fund for Repub, 58-59. Indust. Rels. Res. Asn; Int. Indust. Rels. Asn. Union history and government; collective bargaining; industrial relations in retail trade. Publ: Co-auth, Regulating union government, Harper, 64; auth, The unions: structure, development, and management, Harcourt, 67; Trends in concentration of union membership, 1897-1962, Quart. J. Econ, 8/66. Address: Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

ESTLE, DR. EDWIN F(RANK), b. Bloomington, Ind, Feb. 13, 27; m. 52; c. 1. ECONOMICS. B.A, Purdue, 56; M.A, Princeton, 58, Ph.D.(econ), 66. Indust. statistician, FED. RESERVE BANK BOSTON, 59-62, asst. indust. economist, 62-65, INDUST. ECONOMIST, 65- U.S.A, 48-52, Sgt. Econ. Asn; Statist. Asn; Acad. Polit. & Soc. Sci. Industrial structure of the New England economy; training and education of the New England labor force. Publ: The role of public vocational education, 1/67 & The region's roving industries, 6/67, New Eng. Bus. Rev; A more comprehensive regional test of the Hecksher-Ohlin theorem, J. Polit. Econ, 12/67. Address: Federal Reserve Bank of Boston, 30 Pearl St, Boston, Mass. 02106.

ESTRINE, LEWIS, b. New York, N.Y, May 18, 22; m. 51; c. 2. PSYCHOLOGY, ENGINEERING PSYCHOLOGY. B.A, N.Y. Univ, 49, M.A, 50; American Univ, 54-59; cert. human factors eng, Michigan, 66. Res. psychologist, personnel res, mgt. br, Adj. Gen. Off, U.S. Dept. Army, D.C, 51-56, proj. dir. human eng. lab, Aberdeen Proving Ground, Md, 56-58; proj. dir. & assoc. eng. psychologist, Dunlap & Assocs, Inc, Conn, 58-61; TECH. STAFF, ENG. PSYCHOLOGIST, DISPLAY & SIMULATION LAB, EAST. DIV, SYLVANIA ELECTRONIC SYSTS, 61- Chmn. training adv. cmt, personnel develop. & support tech. panel, Nat. Security Indust. Asn, 67- U.S.A, 42-46. Psychol. Asn; Human Factors Soc; Inst. Elec. & Electronics Eng. Systems analysis; personnel subsystem development; programmed instruction; computer assisted learning; educational technology. Publ: Human engineering evaluation of the LaCrosse assembly area and launch area, Task III missile, launcher series 3000, U.S.A. Tech. Memo, 58; Instructor area report, device 15E18, Tech. Report, 12/67 & Trainee area report, Device 15E18, 12/67, Tech. Report, Natradevcen. Address: 47 Aqueduct Rd, Wayland, Mass. 01778.

ESTUS, DR. CHARLES WILSON, b. Columbus, Kans, Sept. 14, 30; m. 53; c. 2. SOCIOLOGY. B.A, Drury Col, 52; B.D, Duke, 56, M.A, 60; Union Theol. Sem.(N.Y), 57-58; Dempster fel. & Ph.D.(sociol), N.Y. Univ, 66. Dir. effective city church study, bur. res. & surv, Nat. Coun. Churches of Christ,

59-60, res. coordinator, 60-61; instr. SOCIOL, Drew, 62-66; ASST. PROF, CLARK, 66- Mem. cmt. faith & order, Nat. Coun. Churches of Christ, 67-; summer consult, dept. field surv, Bd. Nat. Missions, United Presby. Church, 66. Sociol. Asn; Soc. Sci. Study Relig; Acad. Polit. & Social Sci. Sociology and social psychology of religion; social psychology, especially problems involving the link between personality and social systems. Address: Dept. of Sociology, Clark University, Worcester, Mass. 01610.

ETCHESON, PROF. WARREN WADE, b. Bainbridge, Ind, May 15, 20; m. 47; c. 2. ECONOMICS. B.S, Indiana, 42; M.A, Iowa, 51; Ph.D.(econ), 56. Instr. MKT, Iowa, 51-53; asst. prof, WASHINGTON (SEATTLE), 54-56, assoc. prof, 56-60, PROF, 60-, dir. bus. res, 57-63, asst. dean, 61-63. Fulbright lectr, Istanbul, Turkey, 63-64. Ord.C, U.S.A, 42-46, 1st Lt. Asn. Pub. Opinion Res; Econ. Asn; Mkt. Asn. General business and economic research; consumer motivation research. Publ: A statistical atlas of Washington counties, Univ. Washington, 59; Pazarlama, Ministry Ed, Ankara, Turkey, 64. Address: Dept. of Marketing, Graduate School of Business Administration, University of Washington, Seattle, Wash. 98105.

ETKIN, SEYMOUR, b. New York, N.Y, Apr. 1, 15; m. 44; c. 2. STATISTICS, ECONOMICS. B.B.A, City Col. New York, 36; M.A, American Univ, 48. Economist, census bur, U.S. Dept. Commerce, 48-51, surv. statistician, 51-61; ANAL. STATISTICIAN, BUR. ECON, INTERSTATE COMMERCE CMN, 61- Med.Serv.C, 45-46, Sgt. Statist. Asn. Statistical analysis and survey; collection and presentation of statistics; data processing; systems analysis. Publ: Some faults to avoid in preparing statistical charts, Office; Appraising a medical care program, Am. J. Pub. Health; Size of city and the pattern of retail trade in the mountain division, N.Mex. Bus. Address: Bureau of Economics, Interstate Commerce Commission, Washington, D.C. 20840.

ETZIONI, PROF. AMITAI WERNER, b. Koln, W. Germany, Jan. 4, 29; m. 53; c. 1. SOCIOLOGY. B.A, Hebrew Univ, 54, M.A, 56; Ph.D, California, 58. Instr. SOCIOL, COLUMBIA, 58-59, asst. prof, 59-61, assoc. prof, 61-67, PROF, 67- Inst. War & Peace Studies, 61-; fel. Center Adv. Studies Behav. Sci, 65-66; Guggenheim fel, 68. Sociol. Asn. Political sociology; complex organization; social change. Publ:Modern organizations, Prentice-Hall, 64; Political unification, Holt, 65; The active society, Macmillan, 68. Address: Dept. of Sociology, Columbia University, New York, N.Y. 10027.

ETZKORN, PROF. K(LAUS) PETER, b. Karlsruhe, Germany, Mar. 18, 32; nat; m. 53; c. 1. SOCIOLOGY, ETHNOMUSICOLOGY. A.B, Ohio State, 55; Indiana, 55-56; M.A, Princeton, 58, Ph.D, 59. Asst. sociol, Ohio State, 53-55; Am. civilization prog, Princeton, 58-59; from instr. to asst. prof. sociol, California, Santa Barbara, 59-63; assoc. prof, American Univ, Beirut, 63-64; assoc. prof, Nevada, 64-67, dir. instnl. res, Univ, Nevada Syst, 65-67, chmn. dept. SOCIOL, 66-67; prof. & chmn. dept, West Florida, 67-68; PROF. SAN FERNANDO VALLEY STATE COL, 68- Consult, gov. cmt. dept. corrections, State of Nev, 66; Far West Lab. Ed. Res, Calif, 66-67; off. higher ed, U.S. Dept. Health, Ed. & Welfare, 66- Fel. Sociol. Asn; Soc. Ethnomusicol; Asn. Instnl. Res. Social factors in artistic processes; organizational sociology; role of culture in organization. Publ: Conflict in modern culture, Columbia, 68; Esthetic standards and reference groups, Sociol. Inquiry, 66; Non-rational elements in sociology of arts, Sociol. Bull, 67. Address: Dept. of Sociology, San Fernando Valley State College, Northridge, Calif. 91324.

EUBANK, PROF. (WEAVER) KEITH, Mod. European & Recent Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EUBANKS, PROF. KENNETH WAYNE, b. Booneville, Ark, Aug. 8, 26; m. 52; c. 3. FINANCE, ECONOMICS. B.B.A, Baylor, 54, M.S, 55; Ph.D, Montana State, 62. Independent oil producer, 50-52; asst. tax assessor, City of Anchorage, Alaska, 52-54; lectr. econ. & finance, Southern California, 55-58, dean pub. admin, 55-56; asst. prof. acct. & mkt, Montana State, 61-62; prof. econ. & chmn. div. bus. finance & econ, Ft. Lewis Col, 62-65, dean faculty, 65-67; PROF. ECON. & ACCT, CORNELL, 67- Dean col. liberal & fine art, Cornell Univ. & U.S. Agency Int. Develop, Univ. Liberia, 67- U.S.A, 44-45. Econ. Asn; Agr. Econ. Asn; Am. Acct. Asn. Financial management; agricultural economics; petroleum prices and cost structures for the petroleum industry; constructing price prediction models for agricultural products. Publ: Fourteen Iranians study at University of Southern California, In: Trojan in government; An economic-engineering study of the feed manufacturing industry of Montana, Mont. Exp. Sta. Bull. Address: American Embassy, Agency for International Development, APO New York 09155.

EUCHARIA, SISTER MARIA, C.S.J, b. Far Rockaway, N.Y, Feb. 12, 17. ECONOMICS. B.A, St. Joseph's Col. for Women, 44; M.A, Columbia, 45; Ph.D, N.Y. Univ, 62. Asst. prof. econ, St. Joseph's Col. for Women, 45-57, dir. pub. rels, 56-57; dean arts & sci, Catholic Univ.(P.R), 57-61; PROF. ECON, BRENTWOOD COL, 61- Econ. Asn; Polit. Sci. Asn. Labor and industrial relations. Address: Dept. of Economics, Brentwood College, Brentwood, N.Y. 11717.

EULAU, PROF. HEINZ, b. Germany, Oct. 14, 15; nat; m. 46; c. 2. POLITICAL SCIENCE. A.B, California, 37, M.A, 38, Ph.D.(polit. sci), 41. Orgns. & propaganda analyst, U.S. Dept. Justice, 41-44; asst. ed, New Repub, 44-47; from asst. prof. to prof. polit. sci, Antioch Col, 47-57; fel, Center Adv. Study Behav. Sci, 57-58; PROF. POLIT. SCI, STANFORD, 58- Ford Found. fel, 51-52; Soc. Sci. Res. Coun. fel, 56-57; vis. legis. res. prof, California, 61-62; dir. city coun. res. proj, Stanford, 63-68; vis. prof, Inst. Adv. Studies, Vienna, 64-65. Coun. mem, Inter-Univ. Consortium Polit. Res, 67-70. Fel. AAAS; Polit. Sci. Asn. Political theory and behavior; legislative process. Publ: Class and party in the Eisenhower years, Macmillan, 62; The behavioral persuasion in politics, 63 & Political behavior in America, 66, Random. Address: Dept. of Political Science, Stanford University, Stanford, Calif. 94305.

EULER, PROF. ROBERT C(LARK), b. New York, N.Y, Aug. 8, 24; m. 44; c. 3. CULTURAL ANTHROPOLOGY. B.A, Ariz. State Col, 46, M.A, 47; Ph.D, New Mexico, 58. From instr. to assoc. prof. ANTHROP, Ariz. State Col, 52-63, assoc. prof. & chmn. dept, Utah, 63-66; PROF. & CHMN. CENTER ANTHROP. STUDIES, PRESCOTT COL, 66- Curator, Mus. North. Ariz, 52-55; Nat. Sci. Found. res. grant, 66-67. U.S.M.C, 42-46, 51, Capt. Fel. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; Soc. Ethnohist; Ethnol. Soc. Anthropology, archaeology, ethnohistory, ethnology, applied anthropology of the American Southwest and Great Basin. Publ: Co-auth, The ghost dance of 1889 among the Pai of N.W. Ariz, Prescott Col, 67; auth, Southern Paiute ethnohistory, Univ. Utah Anthrop. Papers, 66; The canyon dwellers, Am. West. Hist. Asn, 67. Address: Center for Anthropological Studies, Prescott College, Prescott, Ariz. 86301.

EURICH, DR. ALVIN C(HRISTIAN), b. Bay City, Mich, June 14, 02; m. 53; c. 2. PSYCHOLOGY. A.B, N.Cent. Col, 24; M.A, Maine, 26; Ph.D.(ed. psychol), Minnesota, 29; hon. LL.D, Hamline, 44, Alfred, 49, Clark, 50, Miami (Ohio), 51, Redlands, 60; hon. Litt.D, N.Cent. Col, 49, New Sch. Soc. Res, 52, Albion Col, 65; hon. L.H.D, Florida, 53, Yeshiva, 54, Maine, 65, Miami (Fla), 68; hon. Sc.D, Akron, 60. From asst. instr. to prof. ed. psychol. & asst. to pres, Minnesota, 26-37; prof. ed, Northwestern, 37-38; prof. ed. & from v.pres. to acting pres, Stanford, 38-48; 1st pres, State Univ. N.Y, 49-51; dir. & v.pres, Fund for Adv. Ed, 51-64; exec. dir, ed. div, Ford Found, 58-64; PRES, Aspen Inst. Humanistic Studies, 63-67; ACAD. ED. DEVELOP, 67- Dir. Belgium-Am. Ed. Found; consumer div, Off. Price Admin, 42-44; from v.chmn. to chmn, Stanford Res. Inst, 46-48. Consult, Penn Study Carnegie Found Adv. Teaching, 34; army orientation course, War Dept, 42; Surg. Gen, Dept. Health, Ed. & Welfare, 61-; Nat. Aeronaut. & Space Admin, 62-63. Mem, President's Task Force on Ed, 60-61; President's Nat. Adv. Cmn. on Libraries. Pres, Am. Ed. Res. Asn, 44. U.S.N.R, 42-44, Comdr. Fel. AAAS; fel. Psychol. Asn. Personnel procedures; reading abilities; social organization. Publ: Co-auth, Educational psychology; auth, Reforming American education, Harper, 68; ed, Campus 1980, Dell, 68. Address: Academy for Educational Development, 437 Madison Ave, New York, N.Y. 10022.

EUTSLER, PROF. ROLAND B(YERLY), b. Danville, Va, Sept. 28, 02; m. 30; c. 2. ECONOMICS. B.S, North Carolina, 23, M.S, 24; Ph.D.(econ), Pennsylvania, 29. Instr, Washington & Lee, 24-25; Pennsylvania, 29-35; PROF. ECON, FLORIDA, 35-, dir. bur. econ. & bus. res, 40-49, assoc. dean, 49-55. Mem. Univ. California-Univ. Indonesia Econ. Proj, Indonesia, 59-61; prof. N.Y. Univ. Nigerian Proj, Univ. Lagos, 64-65. Asst. dir. res. & statist, State Emergency Relief Bd, Pa, 33-35; exec. secy, State Econ. & Efficiency Cmt, Fla, 44-45. Newcomen Soc. Public utility and transportation economics. Address: Dept. of Economics, University of Florida, Gainesville, Fla. 32601.

EVAN, PROF. WILLIAM M, b. U.S, Dec. 17, 22; m. 48; c. 2. SOCIOLOGY. B.A, Pennsylvania, 46; M.A, Nebraska, 49; Ph.D, Cornell, 54. Asst, col. law, Nebraska, 46-47; sociol, Cornell, 50-51; instr, Princeton, 54-56; asst. prof, Columbia, 56-59; mem. tech. staff, Bell Tel. Labs, 59-62; assoc. prof. sociol. & indust. mgt, sch. indust. mgt, Mass. Inst. Tech, 62-66; PROF. SOCIOL, PENNSYLVANIA, 66- AAAS; Am. Sociol. Asn; Int. Sociol. Asn. Sociology of occupations and law; industrial sociology; organization theory; laboratory experiments on organizations. Publ: Ed, Law and sociology: exploratory essays; co-ed, Preventing World War III: some proposals. Address: Dept. of Sociology, W-68 Dietrich Hall, University of Pennsylvania, Philadelphia, Pa. 19104.

EVANS, PROF. ALONA E(LIZABETH), b. Providence, R.I, Feb. 27, 17. POLITICAL SCIENCE. A.B, Duke, 40, Ph.D.(int. law), 45. Jr. div. asst, U.S. Dept. State, 42-43; instr. polit. sci, Duke, 44-45; govt. & econ, Westminster Col.(Pa), 45; POLIT. SCI, WELLESLEY COL, 45-48, asst. prof, 48-52, assoc. prof, 52-58, prof, 58-66, ELIZABETH KIMBALL KENDALL PROF, 66-, CHMN. DEPT, 59-, Harbison Fund fel, 54-55. Soc. Sci. Res. Coun. fel, 48-49; fel. law & polit. sci, law sch, Harvard, 61-62. Mem. Fulbright Inst. Indian Civilization, 61; bd. dirs, Am. Asn. Univ. Women, 63-67. Intern personnel admin, War Dept, 42. Polit. Sci. Asn; Am. Soc. Int. Law; Indian Soc. Int. Law. Extradition; political asylum; American legal system; comparative government of South Asia, Latin America. Publ: Contrib. to Am. J. Int. Law, Brit. Year Book Int. Law & Am. J. Comp. Law. Address: 22 Fiske House, Wellesley, Mass. 02181.

EVANS, DR. BLANCHE ROUSSEAU, b. Clinton Co, Mich, Aug. 19, 89; m. 26, 41. PSYCHOLOGY. A.B, Michigan, 18, M.A, 22, Ph.D.(psychol, psychiat), 37. Psychologist & subnormal class training teacher, Eastern Michigan, 18-25, prof. ed, 20-26; psychiat. soc. worker, Ypsilanti State Hosp, Mich, 33-34; psychol. clin. dir, pub. sch, Wis, 37-40; psychologist & dean boys & girls, Mich. Sch. Deaf, 40-41; prof. ed, Lambuth Col, 42-46; psychologist, W.Tenn. Spec. Ed. Center, 48-50; PRACTICING PSYCHOLOGIST, COUNSELING & TESTING, 50- Prof, Lambuth Col, 58-59, 61-62. Bevan award, 37. Fel. Psychol. Asn. Handicapped and normal children; mental testing and mental health. Publ: Gifted children in the public schools, Tenn. Teacher; Psychologists role at West Tennessee education center, Tenn. Pub. Welfare Record: Case study, Marjorie, a high school girl, Relig. & Health. Address: 513 Division Ave, Jackson, Tenn. 38301.

EVANS, PROF. CHESTER E(UGENE), Indust. Psychol, Bus. Admin, see 10th ed, Soc. & Behav. Vols, deceased 66.

EVANS, DR. CLIFFORD, b. Dallas, Tex, June 13, 20; m. 46. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Southern California, 41; Ph.D, Columbia, 50. Instr. anthrop, Virginia, 49-51; assoc. curator-archaeologist, div. archaeol, U.S. Nat. Mus, 51-61, CURATOR ARCHAEOL, SMITHSONIAN INST, 61- Gold Medal, Int. Cong. Americanists, 66; Order of Merit, Ecuadorian Govt, 66. U.S.A, 43-45, 2nd Lt. Fel. Anthrop. Asn; Soc. Am. Archaeol. Archaeology of Brazil, Peru, Ecuador and Guyana, archaeology of the Andes and lowland South America; Ponape in Caroline Islands, Pacific and Dominica, West Indies. Publ: Co-auth, Early formative period of coastal Ecuador Smithsonian contributions to anthropology, Smithsonian Inst, 65; Archeological investigations at the mouth of the Amazon; & Archaeological investigations in British Guiana, Bul. Bur. Am. Ethnol. Address: Division of Archeology, Smithsonian Institution, Washington, D.C. 20560.

EVANS, DR. DAVID KENNETH, b. Portsmouth, Va, Jan. 23, 33; m. 61. ANTHROPOLOGY. B.S, Tulane, 57; Nat. Inst. Ment. Health fel. & Ph.D.(anthrop), California, Berkeley, 66. ASST. PROF. ANTHROP, WAKE FOREST, 66- U.S.N, 50-53 & 57-59, Lt.(jg). Anthrop. Asn. Culture change; folklore; applied medical anthropology, especially newly developing areas; evolution of human culture. Address: 1970 Faculty Dr, Winston-Salem, N.C. 27106.

EVANS, PROF. EUGENE EMERSON, b. Peoria, Ill, Apr. 6, 26; m. 61; c. 2. POLITICAL SCIENCE. B.S, Maryland, 55; M.A, Illinois, 57, Ph.D.(polit. sci), 63. Instr. polit. sci, Hamline, 58-59; Kentucky, 60-63, asst. prof, 63-65; assoc. prof, MGT, WESTERN KENTUCKY, 65-67, PROF, 67- U.S.M.C, 43-45, 47-55, M/Sgt. Soc. Appl. Anthrop. Administrative science and behavior; developmental change. Address: Dept. of Business Administration, Western Kentucky University, Bowling Green, Ky. 42101.

EVANS, DR. FRANK BERNARD, Am. Hist, Arch. Admin, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EVANS, PROF. FRANKLIN B(ACHELDER), b. Chicago, Ill, Feb. 9, 22; m. 43; c. 4. MARKETING, MASS COMMUNICATIONS. A.B, Chicago, 43, M.B.A, 54, Ford Found. fel, 57-58, Ph.D, 59. Advert. mgr, Berghoff Brewing Corp, 47-52; mem. staff sales promotion, G. Heilman Brewing Corp, 52-55; mkt. res, Encyclop. Britannica, 55; lectr. MKT, grad. sch. bus, Chicago, 57-58, instr, 58-59, asst. prof, 59-64; PROF, HAWAII, 64- U.S.A, 43-45, Sgt; Bronze Star Medal, 45. Statist. Asn; Sociol. Asn; Mkt. Asn. Prediction of consumer brand choice; product and brand imagery; sociological interaction; shopping behavior patterns; selling; widows; inter-cultural communication. Publ: Prediction of brand choice, J. Bus; Brand image myth, Bus. Horizons; Correlates of shopping behavior, J. Mkt. Address: Dept. of Marketing, University of Hawaii, 2500 Campus Rd, Honolulu, Hawaii 96822.

EVANS, PROF. G. N. D, Am. Hist. & Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EVANS, PROF. GEORGE HEBERTON, JR, b. Baltimore, Md, Jan. 20, 00; m. 24; c. 3. POLITICAL ECONOMY. A.B, Hopkins, 20, Ph.D, 25. Instr. POLIT. ECON, HOPKINS, 24-27, assoc, 27-35, assoc. prof, 35-42, PROF, 42-, chmn. dept. econ, 42-60, dean faculty philos, 59-66. Res. assoc, Nat. Bur. Econ. Res, 39-40. Econ. Asn; Statist. Asn; Econ. Hist. Asn.(v.pres, 48-50). Publ: Business incorporations in the U.S, 1800-1943; British corporation finance, 1775-1850; Principles of investment. Address: Dept. of Economics, Johns Hopkins University, Baltimore, Md. 21218.

EVANS, DR. GLORIA CAREY, b. Ames, Iowa, Aug. 11, 27. PSYCHOLOGY. B.A, West. Wash. Col. Ed, 48; M.S, Washington (Seattle), 50; Ph.D, Stanford, 55. Instr. psychol. & Eng. & asst. dean women, Centralia Jr. Col, 50-51; instr. PSYCHOL, West. Wash. Col. Ed, 51-52; ASST. PROF, Nebraska, 55-57; SWARTHMORE COL, 57- Psychol. Asn. Problem solving; attitudes; personality theory. Address: 205 Linden Lane, Wallingford, Pa. 19086.

EVANS, PROF. GRIFFITH C(ONRAD), Math, see 11th ed, Phys. & Biol. Vols.

EVANS, PROF. HARRISON SILAS, Med, Psychiat, see 11th ed, Phys. & Biol. Vols.

EVANS, PRES. H(AWTHORNE) C, JR, b. Morristown, Tenn, Aug. 18, 27. EDUCATIONAL PSYCHOLOGY. B.A, Carson-Newman Col, 50; M.A, Columbia, 51; Ed.D, Tennessee, 58; summers, Lafayette Col, 50, Colorado, 53. Teacher, pub. schs, Tenn, 51-54, guid. counsr, 54-55, elem. prin, 55-56, 57-60; assoc. prof. psychol, Carson-Newman Col, 60-61, assoc. prof. psychol, 61-66, placement dir, 61-67, dir. student teaching, 64-66, prof. ed. psychol. & chmn. dept, 66-67; PRES, LEES-McRAE COL, 67- Dir. camp, Buck Hill Falls, Pa, 61-67. U.S.A.A.F, 45-48, res, 56-, Capt. Development of childhood and adolescence; standardized testing; applied psychology; scouting and related fields; youth fitness. Address: Lees-McRae College, Banner Elk, N.C. 28604.

EVANS, PROF. HOMER CLARK, b. Maulden, Ky, Nov. 19, 19; m. 47; c. 2. AGRICULTURAL ECONOMICS. B.S, Kentucky, 47; M.S, 48; Gen. Ed. Bd. fel, Minnesota, 51-52, Ph.D.(agr. econ), 56. Asst. agr. economist, exten, WEST VIRGINIA, 49-51, assoc. agr. economist, 52-56, assoc. economist, 56-59, AGR. ECONOMIST. & PROF. AGR. ECON, UNIV, 59-, ASSOC. DIR. & HEAD, OFF. BUS. RELS, 67-, assoc. prof. agr. econ, 56-59, chmn. dept. agr. econ. & rural sociol, 60-65, asst. dir. & head, off. bus. rels, 65-67. Mem, Coordinating Cmt. Study Mkt. Tropical Food Crops Africa. U.S.A.A.F, 42-45, Sgt. Agr. Econ. Asn; Econ. Asn. General economics, market structure; agricultural policy. Publ: Contrib, Market structure of the agricultural industries, Iowa State Univ, 66; auth, Some effects of price and income support programs on marginal farms; Competition and apple prices. Address: Dept. of Agricultural Economics, 1004 Agricultural Sciences Bldg, West Virginia University, Morgantown, W.Va. 26506.

EVANS, PROF. IDRIS W(ILLIAM), b. Bonham, Tex, July 6, 30; m. 54. SOCIOLOGY. B.A, E.Tex. State Col, 51; M.A, Texas, 52, Ph.D, 59. Instr. sociol, Texas, 56-57; MONTANA, 57-59, asst. prof. 59-65, assoc. prof, 65-67, PROF. SOCIOL, ANTHROP. & SOC. WELFARE, 67-, asst. dean, col. arts & sci, 61-66. Fel. center study higher ed, Michigan, 66-67. U.S.A, 52-54. Sociol. Asn. Sociological theory; complex organizations; urban region. Publ: The structure of authority in regional planning, a study in the sociology of legitimation. Address: Dept. of Sociology, Anthropology & Social Welfare, University of Montana, Missoula, Mont. 59801.

EVANS, DR. JOHN T(EMPLAR), b. Columbus, Ohio, Feb. 13, 15; m. 42; c. 2. CLINICAL PSYCHOLOGY. A.B, Yale, 37; M.S, Brown, 40; A.M. & Ph.D. (clin. psychol), Harvard, 50. Psychologist, Butler Hosp, Providence, R.I, 39-40; occup. analyst, test develop. sect, U.S. Employ. Serv, 40-41; CLIN. PSYCHOLOGIST, ment. hyg. clin, Vet. Admin, 46-49; U.S. NAVAL HOSP, CHELSEA, 49- U.S.N.R, 37-46, Res, 46-, Capt. Psychol. Asn; Soc. Proj. Tech. & Personality Assessment. Group tests of clinical evaluation; projective techniques; group therapy. Publ: Case study of an amateur artist, a psychopathological report, J. Nervous & Ment. Disease; co-auth, Emotionality in the rat, Am. J. Psychol. Address: 85 Otis St, Newtonville, Mass. 02160.

EVANS, DR. JOHN WILLIAM, b. Sabina, Ohio, May 5, 28; m. 54; c. 3. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Miami (Ohio), 50; M.A, Ohio State, 55, Ph.D.(sociol), 60. Instr. sociol, Ohio State, 55-56, res. assoc. med. sociol, systs. res. group, 57-60; surv. res. analyst, U.S. Info. Agency, 60-63, chief Latin Am. Res. Div, 64-66, dep. asst. dir. res, 66-67; CHIEF EVAL. DIV, OFF. ECON. OPPORTUNITY, 67- U.S.A, 52-54. Sociol. Asn; World Asn. Pub. Opinion Res. Survey research; international attitude and politics; program effectiveness. Address: 8119 Ainsworth Ave, Springfield, Va. 22150.

EVANS, DR. LAURENCE, Am. For, Policy, Mid.E. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EVANS, PROF. LEE S, b. Colo, Mar. 1, 17; m. 40; c. 3. MANAGEMENT. B.S, Colorado, 40, 51-53; fel, Northwestern, 40-41, M.B.A, 41, 41-44. Invests. mgr, Shaw & Co. & Clark St. Assocs, 40-44; asst. prof. MGT. & MKT, DENVER, 45-47, assoc. prof, 47-54, PROF, 54-, CHMN. DEPT. BLDG, INDUST. & REAL ESTATE, 59-, asst. dean col. bus, 49-59. Mem. staff, Builder's Bus. Consults. Acad. Mgt. Research, writing, lecturing and consulting on organization and management methods for residential home builders with emphasis on profit planning and control, personnel development, supervision, subcontracting; management information and control systems. Publ: Co-auth, Basic principles of business management in homebuilding, McGraw, 66; Manpower development for homebuilders & How to subcontract and supervise hired personnel, 67, Nat. Asn. Homebuilders. Address: 1730 S. Cook St, Denver, Colo. 80210.

EVANS, DR. LUTHER HARRIS, b. Sayersville, Tex, Oct. 13, 02; m. 25; c. 1. POLITICAL SCIENCE. A.B, Texas, 23, M.A, 24; Ph.D.(polit. sci), Stanford, 27; hon. L.H.D, Yale, 46, Washington (St. Louis), 59, Marietta Col, 62; hon. LL.D, Pa. Mil. Col, 48, British Columbia, 48, Columbia, 53, Nicaragua, 55, Dartmouth Col, 56, Denison, 61; hon. D.Litt, Loyola Col.(Md), 50, Brown, 53, Adelphi Col, 60. Instr. citizenship, Stanford, 24-27; govt, N.Y. Univ, 27-28; polit. sci, Dartmouth Col, 28-30; asst. prof. polit, Princeton, 30-35; nat. dir, Hist. Records surv, Works Progress Admin, D.C, 35-39; dir. legis. reference serv, Library Cong, 39-40, chief asst. librn, 40-45, librn. Cong, 45-53; dir. gen, UNESCO, 53-58; consult. to pres, Univ. Texas, 59; sr. specialist, Brookings Inst, 59-61; dir. proj. ed. implications automation, Nat. Ed. Asn, 61-62; DIR. int-8 legal collections, COLUMBIA UNIV, 62-67, INT. COLLECTIONS, 67- Dir, Popular Printing, Inc, 63- Consult, Chinese & Tibetan refugees, U.S. Dept. State, 61; Univ. Microfilms, 63- Mem. bd. trustees, Fisk, 50-53; chmn. bd. dirs, U.S. Cmt. Refugees, 63-; mem. nat. bd, Am. Civil Liberties Union, 63- Chmn. U.S. del, Wash. Conf. Copyright, 46; UNESCO Copyright Conf, 52. Order Sol, Peru, 48; Order Cruzeiro, Brazil, 50; Chevalier, Legion Honor, France, 53, Grand Officer, 58; Order Trees of Lebanon, 55; Order Sacred Treasure, Third Class, Japan, 59. Polit. Sci. Asn; Soc. Info. Sci.(pres, Document. Inst, 51, ed, 61); Library Asn. International organizations; United States foreign policy. Publ: The Virgin Islands from naval base to new deal, Edwards, 45; co-auth, Federal departmental liberties, Brookings, 63 & The decade of development, Oceana, 66. Address: Library of International Affairs, Columbia University, New York, N.Y. 10027.

EVANS, PROF. MORRIS, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

EVANS, PROF. RICHARD ISADORE, b. Chicago, Ill, Aug. 29, 22; m. 52; c. 4. SOCIAL PSYCHOLOGY. B.S, Pittsburgh, 46, M.S, 47; Ph.D, Mich. State, 50. Vis. prof. PSYCHOL, Tennessee, 47-48; mem. faculty, Mich. State, 48-50; PROF, HOUSTON, 50- Res. grants, Nat. Sci. Found, Nat. Inst. Dent. Res, U.S. Off. Ed, Ford Found. & Dept. Health, Ed. & Welfare. Dir, Nat. Sci. Found. filmed dialogues with notable contributors to psychol. proj, 63-; dir. psychol. res. training prog, Nat. Inst. Dent. Res, 63- Consult, dent. br, Univ. Texas, 56- AAAS; fel. Psychol. Asn. Educational television; innovations in communication in university instruction; attitude change; juvenile delinquency; political extremism; psychology in dentistry. Publ: Dialogue with Erik Erikson, 67; co-auth, Resistance to innovation in higher education, 68; auth, Dialogue with B. F. Skinner, 68. Address: Dept. of Psychology, University of Houston, Cullen Blvd, Houston, Texas 77004.

EVANS, DR. RICHARD VIRDIN, b. Baltimore, Md, Mar. 29, 30; m. 58; c. 2. INDUSTRIAL ENGINEERING. A.B, Princeton, 51; Lord Baltimore Press fel, Hopkins, 56-58, D.E, 59. Asst. prof. indust. eng. & math, Michigan, 58-62; bus. admin, California, Los Angeles, 62-65; ASSOC. PROF. OPERS. RES, CASE WESTERN RESERVE, 65- U.S.A.R, 51-54, 2nd Lt. Oper. Res. Soc. Am; Inst. Math. Statist; Inst. Mgt. Sci. Production and processing systems; waiting lines. Address: Dept. of Operations Research, Case Western Reserve University, Cleveland, Ohio 44106.

EVANS, DR. ROBERT, JR, b. Sterling, Colo, Mar. 20, 32; m. 55; c. 3. LABOR ECONOMICS. S.B, Mass. Inst. Tech, 54; Hillman fel. & Ph.D.(econ), Chicago, 59. Asst. prof. econ, Mass. Inst. Tech, 59-65; res. assoc, labor econ, Illinois, 65-67; ASSOC. PROF. ECON, BRANDEIS, 66- Vis. prof, Keio-Illinois proj, Keio Univ, 66-67. Mem. Mass. Adv. Cmt. Manpower Develop, 63-65. U.S.A, 55-57, Lt. Econ. Asn; Indust. Rels. Res. Asn. Wage differentials; public policy in the area of industrial relations; Japanese labor markets. Publ: Public policy toward labor, Harper, 65; Shunto: Japan's spring labor offense, Monthly Labor Rev, 67; The labor market and parole success, J. Human Resources, 68. Address: Dept. of Economics, Brandeis University, Waltham, Mass. 02154.

EVANS, ROBERT B(ROWN), Econ, see 10th ed, Soc. & Behav. Vols.

EVANS, DR. ROBERT H, b. Bristol, Eng, Apr. 1, 37; m. 61; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. Dipl, Inst. Polit. Studies, Paris, 59; M.A, Denver, 61, Ph.D.(int. rels), 66. ASST. PROF. EUROPEAN GOVT, NOTRE DAME, 66- Vis. asst. prof, grad. sch. int. studies, Univ. Denver, 67. European communism, particularly in Italy, and its social consequences. Publ: Coexistence—communism and its practice in Bologna, 1945-1965, Univ. Notre Dame, 67. Address: Dept. of Government, University of Notre Dame, Notre Dame, Ind. 46556.

EVANS, DR. ROBERT R(ONALD), b. River Edge, N.J, May 9, 32; m. 57; c. 2. SOCIOLOGY. B.S, Utah State, 57, M.S, 60; Ph.D.(sociol), Wisconsin, 66. Proj. asst, Wisconsin, 65-66, proj. assoc, 66-67; ASST. PROF. SOCIOL, Arizona, 67- U.S.A, 50-52; U.S.A.F.R, 56-61, 2nd Lt. Sociol. Asn; Soc. Sci. Study Relig. Social psychology; attitude, value, and behavoiral consistency; collective behavior. Publ: Ed, Smoking, health, and behavior, Aldine, 68; Readings in collective behavior, Rand McNally, 69. Address: Dept. of Sociology, University of Arizona, Tucson, Ariz. 85721.

EVANS, DEAN ROBERT W(ELDON), b. Batesville, Ark, Mar. 3, 20; m. 45; c. 2. PSYCHOLOGY. A.B, Hendrix Col, 41; B.D, Duke, 44; M.A, Yale, 50. Instr. psychol, QUINNIPIAC COL, 45-48, asst. prof, 48-53, 55-57, dir. eve. div, 51-53, 55-57, ASSOC. PROF. PSYCHOL. & DEAN EVE. DIV, 57-, DEAN STUDENTS, 67- Secy-treas, Savalife, Inc, 53-55. Education. Address: 306 Spring St, Cheshire, Conn. 06410.

EVANS, DR. RODNEY E(ARL), b. Pontiac, Mich, May 15, 39; m. 61; c. 2. BUSINESS ADMINISTRATION, MARKETING. B.A, Mich. State, 61, M.B.A, 63, Ph.D.(mkt), 66. ASST. PROF. LOGISTICS MGT, U.S. AIR FORCE INST. TECH, 67- Lectr, Wright State, 67- U.S.A.F, 67-, 1st Lt. Sales management; military logistics; logistics research; marketing and government interaction; personal selling. Address: U.S. Air Force Institute of Technology, Wright-Patterson Air Force Base, Dayton, Ohio 45433.

EVANS, DEAN RUPERT N(ELSON), b. Terre Haute, Ind, Apr. 6, 21; m. 41; c. 3. INDUSTRIAL PSYCHOLOGY. B.S, Ind. State Teachers Col, 46; M.S, Purdue, 49; Ph.D.(indust. psychol), 50. Asst, Purdue, 48-50; asst. prof, ILLINOIS, URBANA, 50-54, assoc. prof. INDUST. ED, 54-56, PROF, 56-, DEAN COL. ED, 64-, proj. dir, Navy contract, 53, U.S. Air Force contract, 55-56. Fulbright lectr, Japan, 56-57. Mem, President's Ad Hoc Cmn. Evaluate Voc. Ed. Act. of 1963, 66-67; task force occupational training in indust, U.S. Dept. Labor & Commerce, 68; chmn, Ill. Manpower Adv. Coun, 67- U.S.N, 44-46. Voc. Asn. Industrial training; achievement testing. Address: 110 Education Bldg, University of Illinois, Urbana, Ill. 61801.

EVANS, DR. SELBY H(ENRY), b. Dallas, Tex, Nov. 17, 29. PSYCHOLOGY, COMPUTER SCIENCE. B.A, Southern Methodist, 56, M.A, 60; Ph.D, Texas Christian, 64. Ed. asst, Casa View Methodist Church, 58-61; asst. prof. PSYCHOL, TEXAS CHRISTIAN, 63-66, ASSOC. PROF, 66-, DIR. PSYCHOL, INST. STUDY COGNITIVE SYSTS, 67- Assoc, Syst. Develop. Corp, summer 62. Reviewer, Computing Reviews, 64- U.S.A, 51-54. AAAS; Psychol. Asn; Asn. Comput. Mach. Mathematical and computer applications in perception and learning; experimental design and analysis. Publ: Redundancy as a variable in pattern perception, Psychol. Bul, 67; A brief statement of schema theory, Psychonomic Sci, 67; VARGUS 7: computed patterns from Markov processes, Behav. Sci, 67. Address: Dept. of Psychology, Texas Christian University, Ft. Worth, Tex. 76109.

EVANS, PROF. T(HEODORE) QUENTIN, b. Montgomery Co, Ohio, Aug. 30, 22; m. 44; c. 2. SOCIOLOGY. A.B, Manchester Col, 45; B.D, Bethany Biblical Sem, 48; M.A, Cincinnati, 50; Ph.D, Ohio State, 60. Asst. SOCIOL, Ohio State, 51-53; instr, Col. Wooster, 53-56; assoc. prof, MANCHESTER COL, 56-66, PROF, 66-, CHMN. DEPT, 63- Nat. Inst. Ment. Health fel, marriage-counseling training prog, Univ. Minnesota Family Study Center, 65-66. Sociol. Asn; Nat. Coun. Family Rels. Mem, Coun. Soc. Work Ed. Analysis of conceptions of pastoral roles; social organization; marriage and family; methodology. Address: Dept. of Sociology, Manchester College, North Manchester, Ind. 46962.

EVANS, THOMAS P(EABODY), b. Wade, N.C, Oct. 9, 12; m. 55. MATHEMATICS, STATISTICS. B.S, South Carolina, 37. Teacher, high sch, S.C, 37-41; statistician, S.C. Employ. Security Cmn, 41-42, 46, chief res. & statist, 46-65, DIR. staff serv, 65-66; STATIST. RES, S.C. BUDGET & CONTROL BD, 66- Mem. res. & reports cmt, Interstate Conf. Employ. Security Agencies, 56-58 & 64. U.S.N, 42-46, Lt. Comdr. Statist. Asn. Short and long range forecasting of economic trends and revenues for state government of South Carolina. Publ: Co-auth, The cost of unemployment insurance in South Carolina. Address: South Carolina Budget & Control Bd, P.O. Box 11333, Columbia, S.C. 29211.

EVANS, PROF. WALTER B(ENNETT), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EVANS, MAJ. WAYNE ORIEN, U.S.A, b. Seattle, Wash, Mar. 14, 31; m. 53; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Colorado, 53, M.A, 57; Ph.D, Duke, 60. PSYCHOPHARMACOLOGIST, MED. SERV. CORPS, U.S. Army Med. Res. Lab, 59-64, U.S. ARMY MED. RES. & NUTRIT. LAB, 64- Prof-adjoint, Colorado. C.Eng, U.S.A, 53-55. AAAS; Psychol. Asn; Col. Neuropsychopharmacol. Utilization of behavioral techniques in the analysis of physiological and pharmacological factors. Publ: Two factors affecting stimulus generalization of a spatial dimension, J. Exp. Psychol; New Technique for the investigation of some analgesic drugs on a reflexive behavior in the rat, Psychopharmacologia; Producing either positive or negative tendencies to a stimulus associated with a shock, J. Exp. Anal. Behav. Address: U.S. Army Medical Research & Nutrition Lab, Fitzsimons General Hospital, Denver, Colo. 80240.

EVANS, PROF. WILLIAM J(ENNINGS), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 63.

EVANS, DR. WILLIAM McKEE, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

EVANS, PROF. WILLIAM S(YDNEY), JR, b. Oakland, Calif, Apr. 16, 22; m. 51; c. 3. ANTHROPOLOGY. A.B, California, 47, M.A, 58. Teacher anthrop, univ. exten, California, 51-53, 54, Far East Command Prog, 53-54, preparator, mus. anthrop, 55-56; curator, Casa de Rancho los Cerritos, 57-65; ASSOC. PROF. ANTHROP, SANTA MONICA CITY COL, 65- Fel, Seminar Hist. Adminstr, 60; instr, Los Angeles Valley Col, 61; Long Beach City Col, 61-U.S.A. 42-43. Anthrop. Asn; Soc. Am. Archaeol; Ethnol. Soc; Asn. Mus. Social organization, especially kinship; economic anthropology; peasant cultures and societies; post-conquest ethnology of Mesoamerica; historical archaeology; museology and museum administration. Address: 628 11th St, Manhattan Beach, Calif. 90266.

EVANS, PROF. W(ILMOTH) DUANE, b. Watertown, N.Y, June 10, 09; m. 39; c. 2. STATISTICS. B.S, Clarkson Col. Tech, 30. Chief productivity & tech. develop. div, U.S. Bur. Labor Statist, 41-47, off. labor econ, 47-48, interindust. econ. div, 48-54, chief statistician, 54-55, asst. cmnr, 55-61, assoc. cmnr, 62-65; adj. prof, American Univ, 47-65; PROF. STATIST. & ECON, CORNELL, 65- Mem. faculty econ. & polit. sci, Cambridge, 53-54; conf. res. income & wealth, Nat. Bur. Econ. Res. Consult, Anglo-Am. Coun. Productivity, 48-52. U.S. Dept. Labor award, 53; Rockefeller award, 53. Fel. AAAS; fel. Statist. Asn; Econ. Asn; Economet. Soc. Interindustry economics; economics of technological change; survey statistics. Publ: The interindustry relations study for 1947, Rev. Econ. Statist. Address: 103 Highgate Rd, Ithaca, N.Y. 14850.

EVENDEN, PROF. LEONARD JESSE, b. Peking, China, May 25, 37; Can. citizen; m. 63; c. 1. GEOGRAPHY. B.A, McMaster, 60; M.A, Georgia, 62. Instr. GEOG, Ga. State Col, 62-63; demonstrator, Edinburgh, 63-66; ASST. PROF, SIMON FRASER, 66- Fel. Am. Geog. Soc; fel. Can. Asn. Geog. Stream network analysis; local government and public administration; urban geography. Publ: Co-auth, Geomorphic measurements from aerial photos, Prfnl. Geogr, 5/62. Address: Dept. of Geography, Simon Fraser University, Burnaby 2, B.C, Can.

EVERETT, DR. EVALYN G(RACE), b. Oxnard, Calif, May 29, 20. CLINICAL PSYCHOLOGY. A.B, California, 43, M.A, 44; Ph.D.(clin. psychol), N.Y. Univ, 56; M.S.Hyg, Harvard, 61. Asst. clin. & abnorm. psychol, California, 44-45; jr. psychologist, N.Y. Psychiat. Inst, 48-49; lectr. ed. psychol, Queens Col.(N.Y), 49-50; clin. psychologist, DEPT. MENT. HYG, NAPA STATE HOSP, CALIF, 50-, community ment. health consult, 61-64, SR. PSYCHOLOGIST, 66- Psychol. Asn; Soc. Proj. Tech. Training interns in clinical psychology; in-service training of nursing personnel. Address: Box 51, Imola, Calif. 94558.

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EVERETT, PROF. WINTHROP E(DWARD), b. Waltham, Mass, Nov. 24, 07; m; c. 1. ECONOMICS. B.S, Franklin & Marshall Col, 27; A.M, Chicago, 32; Ph.D, Pennsylvania, 51. Head commercial dept, high schs, N.J, 27-36; teacher, Pa, 36-46; asst. prof. ECON. & BUS. ADMIN, FRANKLIN & MARSHALL COL, 46-51, assoc. prof, 51-55, PROF, 55- Econ. Asn; Finance Asn. Money and banking; behavior and significance of bank earnings. Address: Dept. of Business Administration, Franklin & Marshall College, Lancaster, Pa. 17604.

EVERS, PROF. HANS-DIETER, b. Dröbischan, Germany, Dec. 19, 35; m. 63; c. 2. SOCIOLOGY. German Acad. exchange serv. fel, Ceylon, 58-59; Arnold Bergstraesser Inst. fel, Freiburg, 61, Ph.D.(sociol), 62. Res. assoc. sociol. & Asian studies, Arnold Bergstraesser Inst. Socio-Polit. Res, Freiburg, Germany, 59-62; sociol, Mannheim, 62-64; lectr. sociol. & anthrop, Monash Univ, Australia, 64-66; ASSOC. PROF. SOCIOL, Northern Illinois, 66-67, YALE, 67- Volkswagen Found. res. grant, 63; UNESCO res. fel, Thailand, Indonesia & Taiwan, 63; Monash Univ, Australia faculty res. fels, Ceylon & Thailand, 64-66; Am. Coun. Learned Socs-Soc. Sci. Res. Coun. res. grant on Asia, 67-68, res. fel, Yale Concilium Int. Studies, 67-68. Sociol. Asn; Asn. Asian Studies; Siam Soc; Royal Asiatic Soc, Ceylon; German Soc. Sociol. Industrialization and social change in South and Southeast Asia; comparative study of elites and social stratification; social organization of Theravada Buddhism. Publ: Kulturwandel in Ceylon, eine Untersuchung uber die Entstehung einer Industrie Unternehmerschicht, Lutzeyer, 64; The formation of a social class structure: urbanization, bureaucratization and social mobility in Thailand, Am. Sociol. Rev, 66; Kinshi and property rights in a Buddhist monastery in Central Ceylon, Am. Anthropologist, 67. Address: Dept. of Sociology, Yale University, New Haven, Conn. 06520.

EVERSON, DR. RICHARD R(EESE), b. Pittsburgh, Pa, Feb. 3, 28; m. 53. PSYCHOLOGY. B.S, Pittsburgh, 48, M.S, 51, Ph.D.(psychol), 53. Clin. psychol. trainee, Vet. Admin, 49-53; clin. psychologist, Byron Harless & Assocs, 53-54; VET.ADMIN. HOSP, PITTSBURGH, 54-58, ASST. CHIEF PSYCHOLOGIST & COORDINATOR TRAINING, 58- Clin. psychol. consult, St. Francis Hosp, Pittsburgh, 59- U.S.N.R, 45-47. Psychol. Asn. Clinical psychology; psychodiagnosis; personality and psychotherapy. Publ: An investigation into the personal error of the clinical psychologist: his personality in relation to his clinical judgement. Address: Veterans Administration Hospital, Leech Farm Rd, Pittsburgh, Pa. 15206.

EVERTON, DR. JOHN SCOTT, b. Rochester, N.Y, Mar. 7, 08; m. 35; c. 3. SOCIAL SCIENCE. B.A, Redlands, 31; B.D, Colgate-Rochester Divinity Sch, 34; fel, Cambridge, 36-37; Ph.D, Yale, 38; hon. D.D, Grinnell Col, 49; LL.D, Redlands, 63; L.H.D, Chattanooga, 64. Prof. & chmn. div. soc. sci, Grinnell Col, 41-49; pres. Kalamazoo Col, 49-53; Ford Found. rep, Burma, 53-56, exec. assoc, Ford Found, New York, 56-61; U.S. ambassador to Burma, 61-63; V.PRES, ED. & WORLD AFFAIRS & EXEC. DIR. OVERSEAS ED. SERV, 63- Mem. staff, Am. Friends Serv. Cmt, India, 44-45, spec. rep, Finland, 47. Trustee, Harvard-Yenching Inst; Lingnan Univ; United Bd. Christian Higher Ed. Asia; mem. bd. dirs. Japan Int. Christian Univs. Found, Inc; Int. Schs. Serv. Address: Education & World Affairs, Overseas Educational Service, 522 Fifth Ave, New York, N.Y. 10036.

EVOY, J(OHN) J(OSEPH), S.J, b. Seattle, Wash, Apr. 14, 11. PSYCHOLOGY. A.B, Gonzaga, 36, M.A, 37; S.T.L, St. Louis, 44; Ph.D.(psychol), Loyola (Ill), 53. Instr. sociol, GONZAGA, 37-40, assoc. prof. PSYCHOL, 51-53, PROF. & HEAD DEPT, 53- Assoc. ed, America, 66-67. Am. Psychol. Asn; Brit. Psychol. Soc. Empirical investigation of certain human feeling-emotion states. Publ: Co-auth, The real woman in the religious life, Sheed, 67; auth, How neurotic is the new breed?, Thought, spring 66; co-auth, Personal fulfillment in man and woman, America, 10/12/66. Address: Dept. of Psychology, Gonzaga University, Spokane, Wash. 99202.

EWALD, DR. ROBERT H(AROLD), b. Stephenson, Mich, June 4, 22; m. 48; c. 3. ANTHROPOLOGY. A.B, Michigan, 50, fel. & M.A, 51, fel. & Ph.D. (anthrop), 54. Lectr. anthrop, Michigan, 54-55; res. asst, Human Rels. Area Files, Inc, Conn, 55-58; PROF. ANTHROP, CALIF. STATE COL. LOS ANGELES, 58- Fulbright lectr, Univ. San Augustin, Peru, 62. U.S.N.R, 42-45. Fel. Anthrop. Asn; Ethnol. Soc. Latin American peasant societies. Publ: Co-auth, Culture and society: an introduction to cultural anthropology, Ronald, 68; Annotated bibliography of Guatemalan anthropological studies since 1900, Proc. Soc. Integration Seminar; San Antonio Sacatepequez, 1932-53, In: Political change in Guatemalan Indian communities. Address: Dept. of Anthropology, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

EWART, PROF. PARK J(AMES), b. Stotesbury, Mo, Feb. 8, 01; m. 28; c. 1. ECONOMICS, STATISTICS. A.B, Pomona Col, 23; M.B.A, Harvard, 25; Stanford, 27-28; California, 33-34; Ph.D, Southern California, 42. Assoc. econ. res, Iowa, 25-27; chief acct, West. Operating Properties, Associated Tel. Utilities Co, 28-30; from instr. to PROF. BUS. ECON. STATIST, SOUTHERN CALIFORNIA, 30- Mgt. coordinator, war training prog, 43-45. Consult, 30- Statist. Asn. Teaching materials and metohds, including visual aids; collegiate business and economic statistics. Publ: Mathematics of installment finance; co-auth, Economic study of Kern County farm economy, 60; auth, Quantitative economic study of representative Kern County farm enterprises, 62. Address: School of Business Administration, University of Southern California, Los Angeles, Calif. 90007.

EWELL, PROF. ALBERT H(UNTER), JR, b. Philadelphia, Pa, Nov. 30, 25. PSYCHOLOGY. B.A, Haverford Col, 46; Ph.D, N.Y. Univ, 54. Trainee clin. psychol, Vet. Admin, 47-52; instr. PSYCHOL, MIDDLEBURY COL, 52-55, asst. prof, 55-60, assoc. prof, 60-66, PROF, 67-, CHMN. DEPT, 56- Consult, Vt. Rehab. Center, 63- Psychol. Asn; Acoustical Soc; Optical Soc; N.Y. Acad. Sci. Brain and behavior; psychophysics. Address: 28 Weybridge St, Middlebury, Vt. 05753.

EWEN, DR. ROBERT B, b. Brooklyn, N.Y, Mar. 30, 40. INDUSTRIAL PSYCHOLOGY. B.A, Cornell, 61; M.A, Illinois, Urbana, 63, Ph.D.(indust. psychol), 65. RES. ASST. PROF. PSYCHOL, N.Y. UNIV, 65- Psychol. Asn. Job satisfaction; employee motivation and morale; selection and placement, especially minority and disadvantaged groups; statistics and research methodology. Publ: Co-auth, An empirical test of the Herzberg two-factor theory, 66 & auth, Weighting components of job satisfaction, 67, J. Appl. Psychol; co-auth, Differential selection among applicants from different socioeconomic or ethnic backgrounds, Ford Found. Report, 67. Address: Dept. of Psychology, Washington Square College of Arts & Science, New York University, New York, N.Y. 10003.

EWERS, DR. DOROTHEA W(OOD) F(OGLE), b. Brooklyn, N.Y, Oct. 12, 10; m. 31. PSYCHOLOGY. B.S, Chicago, 34, Ph.D.(psychol), 50. Asst. psychologist, State Employ. Serv, Ill, 36-37; reading counsr, pub. schs, Glencoe, 37-38; personnel technician, civilian personnel res. sect, Adj. Gen. Off, 42-46; lectr. psychol, Cincinnati, 46; psychologist, Psychiat. Inst. Munic. Court, Ill, 49; high sch. psychologist, div. child study & instr, Chicago Bd. Ed, 49-52; psychologist, elementary schs, Flossmoor, 52-66; ASSOC. PROF. PSYCHOL, IOWA WESLEYAN COL, 67- Asst, home study dept, Chicago, 36-43, lectr, 47; psychologist, Bloom Twp. High Sch, 52-54. Fel. Psychol. Asn; fel. Int. Coun. Psychol.(pres, 58-60). Reading; tests and measurements; school psychology, especially exceptional children. Publ: Co-auth, Comparison of behavior development in snowshoe hares and red squirrels, J. Mammal; Relations between reading abilities and auditory abilities, J. Exp. Ed; Test constructor's responsibility, J. Ed. Psychol. Address: Dept. of Psychology, Iowa Wesleyan College, Mount Pleasant, Iowa 52641.

EWERS, JOHN CANFIELD, b. Cleveland, Ohio, July 21, 09; m. 34; c. 2. ANTHROPOLOGY. A.B, Dartmouth Col, 31; M.A, Yale, 34; Columbia, 34-35; hon. LL.D, Montana, 66. Field curator, mus. div, Nat. Park Serv, 35-40; curator, Mus. Plains Indian, Mont, 41-44; assoc. curator ethnol, U.S. Nat. Mus, 46-56, planning officer, Mus. Hist. & Tech, 56-59, asst. dir, 59-64, dir, 64-65, SR. ETHNOLOGIST, SMITHSONIAN OFF. ANTHROP, 65- Consult, U.S. Indian Bur, 48-49; Mont. Hist. Soc, 50-53, 67. Ed, J. Wash. Acad, 54. U.S.N, 44-46. Fel. Anthrop. Soc; Asn. Am. Mus; Am. Indian Ethnohist. Conf.(pres, 61). Material culture, arts and crafts of North American Indians; museum exhibits in anthropology and western history; artists who portrayed American Indians. Publ: Plains Indians painting, Stanford, 39; Blackfeet: raiders on the northwestern plains, Univ. Oklahoma, 58; Artists of the old west, Doubleday, 65. Address: Office of Anthropology, Smithsonian Institution, Washington, D.C. 20560.

EWERS, DR. JOSEPH R, b. Cleveland, Ohio, Nov. 19, 28; m. 50; c. 2. BUSINESS ECONOMICS, FINANCE. B.S, Bowling Green State, 50, M.S, 54; D.B.A, Indiana, 50. Auditor, controllers div, Elec. Auto-Lite Corp, 51-53; analyst, Ohio Oil Co, 53-56; asst. prof. bus, grad. sch, INDIANA, 59-60, assoc. prof, 60-62, ASST. TO PRES, 62- Econ. Asn; Finance Asn. Federal housing programs; business and economic forecasting. Address: 121 S. Smith Rd, Bloomington, Ind. 47401.

EWING, PROF. CORTEZ A. M, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 62.

EWING, J. FRANKLIN, S.J, Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 68.

EWING, DR. JOHN B(ERTWELL), b. Gillingham, Wis, Jan. 16, 93; m. 20; c. 1. ECONOMICS. A.B, William Jewell Col, 16; A.M, Washington (St. Louis), 17; Ph.D, Wisconsin, 31; Sorbonne, Paris. Prof. econ. & sociol, Ottawa (Kans), 22-25; asst. prof. econ, Oklahoma, 26-36; tech. adv, Soc. Security Bd, 36-42; LABOR ECONOMIST, WAR MAN-POWER CMN, BUR. EMPLOY. SECURITY, U.S. DEPT. LABOR, 62- State labor compliance officer, Nat. Recovery Admin, Okla, 34-35; dir. labor mgt, Okla. City, 35. Consult, U.S. Bur. Employ. Security, 61-64. Mem. Am. del, Tripartite Meeting Experts on Migration, France, 50; Gen. Agreement Tariff & Trade, Switz, 61-62; Interdept. Cmt. Trade Info, 62-63. Econ. Asn; Indust. Rel. Res. Asn. International labor; impact of tariff changes on employment; migratory labor and labor markets. Publ: Job insurance; Unemployment compensation laws of the southwest, Southwest. Soc. Sci. Quart; Recent development in immigration, In: Labor market and employ. security. Address: Woodley Park Towers, 2737 Devonshire Place N.W, Washington, D.C. 20008.

EWING, DR. JOHN S, b. Taber, Alta, July 10, 16; U.S. citizen; m. 47; c. 3. BUSINESS MANAGEMENT, MARKETING. Prof. mkt, IPSOA, Turin, Italy, 53-54; dir. staff, Admin. Staff Col, Henley, Eng, 54-55; assoc. prof. mkt, Am. Inst. For. Trade, 55-56; mgr. int. div, Harbridge House, Inc, 56-57; vis. assoc. prof, Stanford, 57-59; vis. consult, W.D.Scott & Co, Australia, 59-60; assoc. prof. int. bus, Stanford, 60-65; SR. INDUST. ECONOMIST, STANFORD RES. INST, 65- Wilton Park fel, 63. Mem, Export Expansion Cmt, 60-65. Silver medal, Int. Cmt. Sci. Orgn, 59. R.C.A.S.C, 40-45, Capt. Mkt. Asn; Soc. Int. Develop; Asn. Ed. in Int. Bus.(secy, 64-66). International business management; problems of management in multinational corporations and of stimulating productivity in developing countries. Publ: Co-auth, Broadlooms and businessmen, Harvard, 55; International business management, Wadsworth, 64; Foreign student attitudes toward American business, J. Appl. Psychol, 65. Address: Stanford Research Institute, 333 Ravenswood Ave, Menlo Park, Calif. 94025.

EWING, PROF. THOMAS N(EWELL), b. Decatur, Ill, Nov. 6, 13; m. 41; c. 1. PSYCHOLOGY. A.B, DePauw, 35; A.M, Syracuse, 37; Ph.D.(psychol), Duke, 40. Asst. prof. psychol, Ohio Northern, 39-42; asst. prof. PSYCHOL. & clin. counsr, ILLINOIS, 46-53, from assoc. prof. to PROF. & ASSOC. DIR. STUDENT COUNS, 53- U.S.A.A.F, 42-45. Psychol. Asn; Personnel & Guid. Asn. Attitude and opinion; prediction of scholastic success; psychological problems involved in counseling; programmed counseling and psychotherapy. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61820.

EXLINE, DR. RALPH V, b. Cleveland, Ohio, Dec. 23, 22; m. 44; c. 2. PSYCHOLOGY. A.B, Ohio, 47, M.A, 49; Ph.D.(ed. psychol), Illinois, 54. Asst. to dean of univ. col, Ohio, 47-49; asst, bur. ed. res, Illinois, 49-52, res. assoc. small group studies, Off. Naval Res. Contract, 52-54; asst. prof. ed. psychol, Butler, 54-55; asst. res. prof, Fels Group Dynamics Center, DELAWARE, 55-62, ASSOC. RES. PROF, 62- Vis. res. fel, inst. exp. psychol, Oxford, 65-66. Consult, dept. psychiat, Jefferson Med. Col, 64- Mem. Nat. Training Lab. Inst. Appl. Behav. Sci. U.S.A, 43-46. Fel. Psychol. Asn; Soc. Psychol. Study Social Issues. Interpersonal perception and communication in small groups; nonverbal communication; studies of expressive behavior. Publ: Co-auth, Visual behavior in a dyad as affected by interview content and sex of respondent, J. Personality & Soc. Psychol, 65; Affective relations and mutual glances in dyads, In: Affect, cognition & personality, Springer Pub, 65; Effects of dependency and social reinforcement upon visual behavior during an interview, Brit. J. Clin. & Soc. Psychol, 67. Address: Dept. of Psychology, University of Delaware, Newark, Del. 19711.

EXNER, PROF. JOHN E(RNEST), JR, b. Syracuse, N.Y, Apr. 18, 28; m. 51; c. 4. PSYCHOLOGY. B.S, Trinity (Tex), 53, M.S, 54; Ph.D, Cornell, 59. Clin. psychologist, Sampson Air Force Base Hosp, N.Y, 54-56; Rochester Inst. Tech, 56-57; assoc. prof. psychol. & dir. bur. testing & res, DePauw, 57-62; ASSOC. PROF. PSYCHOL, CHMN. DEPT. & DIR. TRAINING CLIN. PSYCHOL, BOWLING GREEN STATE, 62- U.S.A.F, 45-49, 50-56, Sgt. Psychol. Asn; fel. Soc. Proj. Tech. & Personality Assessment. Individual and group psychotherapy, rehabilitation and diagnostic methods; academic achievement, especially non-intellectual factors; psychopharmacology. Publ Influence of chromatic and achromatic color in the Rorschach, 23: 418-425. Achromatic color in cards IV and VI of the Rorschach, 25: 38-41 & Effect of color on productivity in cards VIII, IX and X of the Rorschach, 62, J. Proj. Tech. Address: Dept. of Psychology, Bowling Green State University, Bowling Green, Ohio 43402.

EXTER, JOHN, b. Chicago, Ill, Sept. 17, 10; m. 37; c. 4. ECONOMICS. B.A, Col. Wooster, 32; Western Reserve, 32-33; M.A, Fletcher Sch. Law & Diplomacy, 34, 37-38; fel, Harvard, 40-41. Tutor econ, Harvard, 40-43; tech. aide to dir. & secy. proj. cmt, radiation lab, Mass. Inst. Tech, 43-45; economist, bd. gov, Fed. Reserve Syst, 45-50, acting chief Far East. Sect. 50; first gov, Cent. Bank, Ceylon, 50-53; chief div, dept. opers, Asia & Mid. East, Int. Bank Reconstruct. & Develop, 53-54; v.pres, Fed. Reserve Bank, N.Y, 54-59; FIRST NAT. CITY BANK, NEW YORK, 59-60, SR. V.PRES, 60- Adv. to secy. finance, Philippine Govt, 48; minister finance, Ceylon Govt, 48-50. Econ. Asn. Money and banking; international finance. Publ: Report on the establishment of a central bank for Ceylon; co-auth, Report of the joint Philippine-American finance commission & Philippine Central Bank act, Fed. Reserve Bull. Address: 290 Boulevard, Mountain Lakes, N.J. 07046.

EYDAL, DR. ASTVALDUR, b. Skagafjord, Iceland, Nov. 10, 06; m. 40; c. 4. GEOGRAPHY. Fil. Mag, Stockholm, 41, Fil. Lic, 44; Ph.D.(fisheries), Washington (Seattle), 63. Lectr, GEOG, Iceland, 51-58; PROF, SAN FRANCISCO STATE COL, 59- Dir. Marine Res. Inst, 67- AAAS; Geog. Soc; Asn. Am. Geog; Acad. Polit. & Soc. Sci. Economy-demography in Sweden; economic and technical aspects of fisheries. Publ: Silver of the sea; The earth. Address: Dept. of Geography, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

EYDE, DR. DAVID BRUENER, b. Berkeley, Calif, Sept. 18, 31; m. 65. ANTHROPOLOGY. B.A, Hawaii, 54; Ph.D.(anthrop), Yale, 66. Acting asst. prof. ANTHROP, California, Berkeley, 63-65; ASST. PROF, Nebraska, 65-66; Illinois, Urbana, 66-68; HAWAII, 68- Fel. Anthrop. Asn. Structural

approach; religion; Oceania, particularly Melanesia. Publ: Co-auth, Avunculocality and incest, Am. Anthropologist, 8/61; auth, Evidence for complex alliance in Tikopia, Kroeber Anthrop. Soc. Papers, spring 64. Address: Dept. of Anthropology, University of Hawaii, Honolulu, Hawaii 96822.

EYDE, DR. LORRAINE D(ITTRICH), b. New York, N.Y, Feb. 20, 32; m. 57; c. 2. INDUSTRIAL & COUNSELING PSYCHOLOGY. B.S, Tufts, 53; M.A, Ohio State, 54, Ph.D.(indust. & counseling psychol), 59; German Acad. Exchange Serv. award, Heidelberg, 54-55. Teaching asst. psychol, Ohio State, 54 & 55-57; from res. asst. & instr. to res. assoc. & lectr, Tufts, 58-60; RES. PSYCHOLOGIST, U.S. DEPT. HEALTH, ED. & WELFARE, 61- Summer res. asst, Age Center New Eng, 61. Psychol. Asn; Int. Coun. Psychol. Personnel selection; counseling; work motivation of women. Publ: Work values and background factors as predictors of women's desire to work, Bur. Bus. Res, Ohio State Univ, 62; co-auth, SVIB patterns of medical school applicants, 61 & auth, Work motivation of women college graduates: five-year follow-up, 68, J. Counseling Psychol. Address: 2400 S. Arlington Ridge Rd, Arlington, Va. 22202.

EYESTONE, DR. ROBERT, b. Ft. Bragg, N.C, Sept. 11, 42; m. 65. POLITICAL SCIENCE. B.S, Mass. Inst. Tech, 64; Nat. Defense Ed. Act fel. & Ph.D. (city policy), Stanford, 67. ASST. PROF. POLIT. SCI, MINNESOTA, MINNEAPOLIS, 67- Public policy; legislative politics; empirical political theory. Publ: Co-auth, Policy maps of city councils and policy outcomes: a developmental analysis, Am. Polit. Sci. Rev, 3/68. Address: Dept. of Political Science, University of Minnesota, Minneapolis, Minn. 55455.

EYMAN, DR. RICHARD KENNETH, b. Joliet, Ill, Nov. 26, 31; m. 59. PSYCHOLOGICAL MEASUREMENTS. B.A, Illinois, 54, M.A, 55; Ph.D.(psychol. measurement), Southern California, 66. Personnel res. specialist, Gen. Motors, Calif, 55-56, 57-58; asst. res. technician, SOCIO-BEHAV. LAB, PAC. STATE HOSP, POMONA, 58-59, assoc. soc. res. technician, 59-62, res. specialist I, 62-65, res. specialist II, 65-67, RES. SPECIALIST III, 67- Asst. res. psychologist, dept. psychiat, California, Los Angeles; res. assoc, dept. psychol, Southern California. U.S.A, 56 & 57. Psychol. Asn; Pub. Health Asn; Statist. Asn; Psychomet. Soc. Mental retardation; multivariate analyses; computer techniques. Publ: Co-auth, Comparison of some computer techniques for factor analytic rotations, Ed. Psychol. Measurement, 22: 201-214; auth, Covariation of level of aspiration and adaptation level with other characteristics, Am. J. Ment. Deficiency, 68: 741-750; The effect of subject sophistication on ratio and discrimination scales, Am. J. Psychol, (in press). Address: 294 Monterrey, Claremont, Calif. 91711.

EYNON, DR. THOMAS GRANT, b. Evanston, Ill, Aug. 10, 27; m. 56; c. 3. CRIMINOLOGY. B.Sc, Ohio State, 53, M.A, 55, Scott fel, 56, Ph.D, 59. Asst. instr. indust. sociol, OHIO STATE, 56-58, instr. anthrop, 58-59, asst. prof. criminol, 59-64; ASSOC. PROF. SOCIOL, 64-; OWNER, BIO-SOC. RES. ASSOCS, 67- Chief investr, res. dept, Nationwide Ins. Co, 56-57; assoc. dir. res, State Delinquency Res. Center, 59-62. Consult, State Dept. Corrections, 60-62; Columbus Hosp. Fedn, 62-64; Ohio Legal Inst, 63-65; Ky. Dept. Corrections & Columbus Police Dept, 65-66; Georgetown Univ. Law Center, 66- U.S.N.A.F, 45-51, Lt. AAAS; Sociol. Asn; Statist. Asn. Juvenile delinquency; research techniques; studies of correctional institutions; fiscal and personnel management; comprehensive study of American universities; studies of social change. Publ: Juvenile court judges in Ohio, Ohio Legal Center, 65; Coordinated pre-employment training of young adult offenders, Off. Econ. Opportunity, 66; co-auth, Academicals, Sociol. Focus, fall 67. Address: Dept. of Sociology, Ohio State University, Columbus, Ohio 43210.

EYRE, PROF. JOHN D, b. Del, Jan. 19, 22; m. 45; c. 3. GEOGRAPHY. A.B, Michigan, 45, M.A, 47; Soc. Sci. Res. Coun. fel. & Ph.D, 51. Asst. prof. GEOG, Washington, 51-57; assoc. prof, NORTH CAROLINA, 57-62, PROF, 62-, chmn. dept, 62-67. Ford Found. fel, Japan, 53-54; Fulbright res. grant, Kyoto, 65-66. Summers, vis. asst. prof, Michigan, 52, vis. assoc. prof, Mich. State, 57, Soc. Sci. Res. Coun. faculty grants-in-aid, 58 & 61. Sig.C, 42-46, 1st Lt. Am. Geog. Soc; Asn. Am. Geog. Human geography of urban and rural Japan. Address: Dept. of Geography, University of North Carolina, Chapel Hill, N.C. 27514.

EYRING, DR. HENRY B(ENNION), b. Princeton, N.J, May 31, 33; m. 62; c. 2. MANAGEMENT SCIENCE. B.S, Utah, 55; M.B.A, Harvard, 59, D.B.A.(mgt), 63. Res. asst. ADMIN. SCI, Harvard, 57-58, res. assoc, 59-60; ASST. PROF, GRAD. SCH. BUS, STANFORD, 62- Sloan vis. faculty fel, Mass. Inst. Tech, 64-65. Consult, Rand Corp, 62-; Stanford Res. Inst, 62- U.S.A.F, 55-57, 1st Lt. Sociol. Asn. Administrative science; behavioral science and operations research studies of the decision making process in organizations. Address: Dept. of Administrative Science, Graduate School of Business, Stanford University, Stanford, Calif. 94305.

EZEKIEL, DR. MORDECAI, b. Richmond, Va, May 10, 99; m. 27; c. 3. AGRICULTURAL ECONOMICS. B.S, Maryland, 18, hon. D.Agr, 63; M.S, Minnesota, 23; Ph.D.(econ), Brookings Inst, 26. Agr. economist, bur. agr. econ, U.S. Dept. Agr, 22-27, sr. agr. economist, 27-29, econ. adv. to secy. agr, 33-46; asst. chief economist, Fed. Farm Bd, 30-33; exec. asst. to v.chmn, War Prod. Bd, 42-43; dep. dir. econ. div, Food & Agr. Orgn, UN, 46-58, head, econ. dept, 59-60, asst. dir. gen, 61, spec. asst. to dir. gen, 61-62; chief UN Div, U.S-UN rels, Agency Int. Develop, 62-65, mem. agr. div, int. agr. develop, Sectorial Anal. Off, 65-67; CONSULT, 67- Guggenheim Mem. Found. fel, Europe, 30-31. Mem. Food & Agr. Orgn. missions, Greece & Poland. U.S.A, 18-19. Econ. Asn; fel. Economet. Soc; fel. Agr. Econ. Asn; fel. Statist. Asn. Statistical and economic analysis; national and international agricultural policy and planning; factors affecting prices. Publ: Towards world prosperity; Methods of correlation analysis, 29, 2nd ed, 40; co-auth, Methods of correlation and regression analysis, 59. Address: 5312 Allandale Rd, Washington, D.C. 20016.

EZEKIEL, DR. RAPHAEL SAFRA, b. Bryan, Tex, Nov. 24, 31; m. 53; c. 3. SOCIAL PSYCHOLOGY. B.A, Chicago, 50; Nat. Insts. Health fel. & Ph.D. (psychol). California, Berkeley, 64. ASST. PROF. PSYCHOL, MICHIGAN, 64- U.S.A. 53-55. Psychol. Asn. Values, attitudes, time perspectives and coping strategies across classes. Publ: Co-auth, Cross-cultural encounters, Jossey-Bass, 68; auth, The personal future and Peace Corps competence, J. Personality & Soc. Psychol, 68. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

EZELL, PROF. PAUL H(OWARD), b. Wyo, Aug. 12, 13; m. 37; c. 2. ANTHROPOLOGY. B.A, Arizona, 37, M.A, 39, Holliday fel, 53-54, Ph.D, 56. Field supvr, archaeol. proj, Works Progress Admin, Ariz, 39; N.C, 41; RES. ANTHROPOLOGIST, PIMA & MARICOPA INDIANS, 52-; PROF. ANTHROP, SAN DIEGO STATE COL, 64-, CHMN. DEPT, 68-, asst. prof, 56-59, assoc. prof, 59-64. Res. assoc, State Mus, Ariz, 51-; mem, Inter-Am. Inst. Indian Affairs. U.S.N, 43-46. Fel. Anthrop. Asn; Ethnol. Soc; Soc. Archaeol. Evolution of culture; archaeology, ethnology and ethnohistory west of the Colorado River; applied anthropology. Publ: The Maricopas, Anthrop. Papers, Univ. Arizona, 63; co-auth, The Aguiar collection in the Arizona Pioneers Historical Society, San Diego State Col. Press, 64; Man and land in Bolivia, Ethnohistory, summer-fall 66. Address: Dept. of Anthropology, San Diego State College, San Diego, Calif. 92115.

EZZELL, DR. AUSTIN B(ENSON), b. Belgreen, Ala, Mar. 14, 15; m. 37; c. 3. AGRICULTURAL ECONOMICS. B.S, Ala. Polytech, 48; M.S, Mich. State, 56; Ph.D.(agr. econ), Ohio State, 61. Asst. county exten. agent, Ala. Polytech, 37-44, asst. exten. ed, 44-48, mkt. specialist, 48-58; FOOD MERCHANDISING SPECIALIST, OHIO STATE, 58-, PROF. AGR. ECON. & RURAL SOCIOL. & ASST. DIR, OHIO COOP. EXTEN. SERV, 65- U.S.N.R, 45-46. Agr. Econ. Asn; Econ. Asn; Acad. Polit. Sci. Costs of retailing meats; economic impacts of selected legislation on food wholesaling and retailing; educational methods useful with food retailers. Address: Dept. of Agricultural Economics & Rural Sociology, College of Agriculture & Home Economics, Ohio State University, Columbus, Ohio 43210.

F

FABIAN, DR. ROBERT G(EORGE), b. July 17, 38; U.S. citizen. ECONOMICS. A.B, Notre Dame, 60; M.A, Illinois, 63; Ph.D.(econ), Florida, 66. Res. asst. ECON, Florida, 63-64; instr, FLORIDA ATLANTIC, 64-65, ASST. PROF, 66- Econ. Asn. Methodology of economic theory; urban problems. Publ: Co-auth, Notes on manufacturing in Florida, Econ. Leaflets, Univ. Florida, 8/63; auth, An empirical principle for deductive theory in economics, Southern Econ. J, 7/67. Address: Florida Atlantic University, College of Social Science, Boca Raton, Fla. 33432.

FABIAN, DR. TIBOR, b. Budapest, Hungary, Dec. 15, 22; m. 55. ECONOMICS. Dipl, Hungarian Joseph Palatine Univ, 43, 46, Dr, 47; Ph.D, California, Los Angeles, 58. Adj. instr. econ. & sociol, Joseph Palatine Univ, 46-48; res. asst, inst. indust. rels, California, Los Angeles, 51-52, res. economist, mgt. sci. res. proj, 52-58, asst. prof, sch. bus. admin, 56-58; dir. opers. res, Lybrand, Ross Bros. & Montgomery, 58-62; v.pres, MATHEMATICA, 62-63, exec. v.pres, 63-64, PRES, 65- Vis. asst. prof, Case Inst. Tech, 57-58; adj. assoc. prof, Wharton Sch. Finance, Pennsylvania, 59-66. Mem. N.Y. City Opers. Res. Coun, 66- Econ. Asn; Economet. Soc; Inst. Mgt. Sci. Mathematical economics; operations research. Address: 1 Palmer Square, Princeton, N.J. 08540.

FABIAN, DR. WALTER A(LBERT), JR, b. Philadelphia, Pa, Feb. 13, 23; m. 51; c. 2. PSYCHOLOGY. B.A, Pa. State, 47, Stipend scholar, 47-48, M.S, 48; Ohio State; Ph.D, Buffalo, 54. Chief clin. psychologist, sch. med, Buffalo, 52-56; clin. psychologist, pub. schs, N.Y, 56-58; SUPVR. SPEC. ED. & PSYCHOLOGIST, ALLEGHENY COUNTY SCHS, 58- U.S.A, 43-46, Sgt. AAAS; Psychol. Asn; Orthopsychiat. Asn; Nat. Ed. Asn. Psychodiagnostics; psychotherapy; child development and personality; special education of exceptional children; clinical child psychology. Publ: Investigation of the relationship between measures of insight and measures of projection and distortion in ratings. Address: 2403 Cortland Dr, Pittsburgh, Pa. 15241.

FABRICANT, PROF. SOLOMON, b. Brooklyn, N.Y, Aug. 15, 06; m. 34; c. 3. ECONOMICS. B.S, City Col. New York, 29; A.M, Columbia, 30, Ph.D, 38. MEM. RES. STAFF, NAT. BUR. ECON. RES, 30-, dir. res, 53-65; PROF. ECON, N.Y. UNIV, 46-, lectr, 46-47, assoc. prof, 47-48. Consult, U.S. Bur. Budget, 46-52; U.S. Bur. Census, 45-50; U.S. Dept. Health, Ed. & Welfare, 65- Economist, War Prod. Bd, 42-44; UN Relief & Rehab. Admin, 44-45. Econ. Asn;(v.pres, 60-61); fel. Statist. Asn; Economet. Soc; Econ. Hist. Asn; Philos. Soc; Royal Econ. Soc; Am. Acad. Arts & Sci; Finance Asn. Economic principles and problems; income and wealth; business cycles and economic growth. Publ: Capital consumption and adjustment; Employment in manufacturing industries; Trend of government activity. Address: 157 Brite Ave, Scarsdale, N.Y. 10583.

FABRIKANT, DR. B(ENJAMIN), b. New York, N.Y, Jan. 4, 24; m. 49; c. 3. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 48; M.A, Temple, 50; Ph.D. (psychol), Buffalo, 53. Clin. psychologist, Vet. Admin. Hosp, Buffalo, N.Y, 53-54, chief psychol. res. unit & asst. chief clin. psychol. sect. & consult. res, neuropsychiat. serv, 54-59; chief psychologist, Psychol. Serv. Center, Teaneck, 59-62, dir. prfnl. servs, 62; ASSOC. PROF. PSYCHOL, FAIRLEIGH DICKINSON, 62-, DIR. UNIV. CLIN, 64-, DIR. CLIN. TRAINING, 65- Consult, Bergen Pines Hosp, 62- Co-ed, Res. Exchange Bull, 55- Dipl, Am. Bd. Exam. Prfnl. Psychol; clin. hypnosis, Am. Bd. Exam. Psychol. Hypnosis. U.S.A, 42-45. Fel. Psychol. Asn; fel. Soc. Proj. Tech; Acad. Psychother; Soc. Clin. & Exp. Hypnosis. Analytic psychotherapy; training; hypnosis; self image of the clinical psychologist as psychotherapist; hypoanalysis; attitudes towards religion. Publ: Perceptual control on the Rorschach test, Rigidity and flexibility on the Rorschach and Suggestibility and the Rorschach, J. Clin. Psychol. Address: 18 Chimney Ridge Court, Westwood, N.J. 07675.

FABRYCKY, DR. WOLTER J, Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

FABRYCY, DR. MARK Z, b. Sosnoviec, Poland, Nov. 18, 22; U.S. citizen; m. 50. ECONOMICS. B.Commerce, London, 50; M.A, City Univ. New York,

62, Ph.D.(econ), 67. Instr. ECON, City Col. New York, 64-65; N.Y. UNIV, 65-67, ASST. PROF, 67- Participating consult, develop. proj. Niagara Falls, N.Y. Area Redevelop. Admin, U.S. Dept. Commerce, 64. Brit. Army, 42-45. Am. Econ. Asn; Economet. Soc; Royal Econ. Soc. Econometrics; economic development and growth; measurement and determination of technological advance. Publ: Growth implications of optimum allocation in diminishing cost industries, summer 65 & Comment on a two-sector model of growth, spring 67, Am. Economist. Address: Dept. of Economics, New York University, New York, N.Y. 10012.

FACER, PROF. ELDEN J(ACKSON), b. Hyrum, Utah, Nov. 15, 08; m. 34; c. 6. FINANCE. A.B, Brigham Young, 33; M.B.A, Stanford, 35, Ph.D, 49. Instr. banking & finance, UTAH, 42-45, asst. prof, 46-49, assoc. prof, 50-56, PROF. BANKING & FINANCE & CHMN. MASTER'S BUS. ADMIN. PROG, 56-, acting asst. comptroller, 44-45. Fel, Found. Econ. Ed, 51, Am. Securities Bus. fel, 52; Univ. Chicago-Ford Found. faculty sem. fel, Williamstown, Mass, 59; fel. Ford Found. seminar, case method prog, grad. sch. bus, Harvard, 62. Bombing analyst, U.S. Strategic Bombing Serv, Germany, 45. Finance Asn. Publ: Opportunities for building a life estate in investments, Commercial & Financial Chronicle; Common stock: an essential part of sound financial planning and Investment problems for the small investor, Personal Finance, 61. Address: Dept. of Finance, University of Utah, Salt Lake City, Utah 84112.

FACEY, PAUL W(ILLIAM), S.J, b. Cambridge, Mass, June 8, 09. SOCIOLOGY. A.B, Boston Col, 31, A.M, 32; S.T.L, Weston Col, 36; Ph.D, Fordham, 45. Instr. SOCIOL, COL. HOLY CROSS, 42-44, asst. prof, 44-48, assoc. prof, 48-53, PROF. & CHMN. DEPT, 53- Fel. Sociol. Asn. Publ: Co-auth, Sociology & General sociology. Address: Dept. of Sociology, College of the Holy Cross, Worcester, Mass. 01610.

FACKLER, PROF. WALTER D(AVID), b. Aitkin, Minn, Aug. 27, 21; m. 51; c. 3. ECONOMICS. A.B, George Washington, 50; scholar, Hopkins, 51-54. Instr. bus. admin, George Washington, 50-51, asst. prof. econ, 53-56, asst. to dean faculties, 53-56; asst. dir. econ. res, Chamber Commerce of U.S, 56-59; sr. economist, Cabinet Cmt. Price Stability for Econ. Growth, White House Staff, 59-60; assoc. prof. BUS. ECON, GRAD. SCH. BUS, CHICAGO, 60-62, PROF. & ASSOC. DEAN, 62- Instr, Hopkins, 51-54. Mem. econ. adv. bd, Secy. Commerce, 66-67. U.S.A, 42-46, Capt. Econ. Asn; Statist. Asn. Economic theory; public finance; money and banking. Publ: Income-expenditure flow; Government spending and economic stability; Administered prices and inflation. Address: University of Chicago, Graduate School of Business, Chicago, Ill. 60637.

FADUM, DR. H(ANS) R(ATUS), b. Wilkinsburg, Pa, Mar. 27, 15. ECONOMICS, ACCOUNTING. B.S, Illinois, 38; A.M, Yale, 45, Ph.D, 48. Instr. econ, Yale, 45-49, asst. prof, 49-51; SECY. & TREAS, UNITED ILLUM. CO, 65- Valuation and economic implications of inventories. Address: 63 Dwight St, New Haven, Conn. 06511.

FAGAN, PROF. CLIFFORD LAWRENCE, b. Edina, Mo, Dec. 9, 15; m. 57; c. 3. MARKETING, MANAGEMENT. B.S, Northeast Mo. State Teachers Col, 37; M.A, Iowa, 40, Ph.D.(commerce), 49. Teacher, elem. & high schs, Mo, 35-36, 37-40; teacher bus, Elsworth Jr. Col, 40-42; prin, Browns Bus. Col, 46-47; PROF. MKT, EASTERN ILLINOIS, 49-, HEAD DEPT, 65-, Chmn. bus. admin. faculty, Col. Virgin Islands, 63-64; Sheaffer Pen Co. econ. fel, summer, 56. U.S.N, 42-46, Lt. Acad. Mgt; Mkt. Asn. Analysis of the college student market. Publ: College students are good customers, Super Serv. Sta, 64; co-auth, The Cardizat—a simulated assembly line, Training Dir, 64; Are college students good credit risks?, Credit World, 67. Address: Dept. of Marketing, Eastern Illinois University, Charleston, Ill. 61920.

FAGAN, PROF. ELMER D(ANIEL), b. Oxford, Kans, Nov. 27, 95. PUBLIC FINANCE. A.B, Oklahoma, 20; A.M, Harvard, 21, Ph.D, 26. Instr. ECON, Southern California, 21-22, asst. prof, 23-24, assoc. prof, 25-26, prof, 27-28; acting assoc. prof, STANFORD, 28-29, assoc. prof, 29-33, prof, 34-61, EMER. PROF, 61- Consult, U.S. Dept. Treas, 43. Econ. Asn; Tax Inst. Economics of capital gains taxation; incidence and effects of taxation. Publ: Tax shifting and the laws of cost, Quart. J. Econ, 8/33; Recent and contemporary theories of progressive taxation, J. Polit. Econ, 8/38; Tax shifting in the market period, Am. Econ. Rev, 3/42. Address: 180 Heather Lane, Palo Alto, Calif. 94303.

FAGAN, DR. MARGARET JOEN, b. Atlanta, Ga, Sept. 5, 33. PSYCHOLOGY. A.B, Agnes Scott Col, 54; M.S, Pa. State, 56, Ph.D.(psychol), 58. Trainee, Vet. Admin. Ment. Health Center, Ga, 57-58; from asst. prof. to ASSOC. PROF. PSYCHOL, GA. STATE COL, 58- Psychol. Asn. Procedures for producing rapid behavioral change; communication processes; family interaction. Address: Dept. of Psychology, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

FAGEN, DR. RICHARD REES, b. Chicago, Ill, Mar. 1, 33; m. 58; c. 4. POLITICAL SCIENCE. B.A, Yale, 54; M.A, Stanford, 59, Soc. Sci. Res. Coun. fel, 60-61, Ph.D.(polit. sci), 62. Asst. prof. polit. sci. & commun, STANFORD, 62-65, POLIT. SCI, 65-66, ASSOC. PROF, 67- Soc. Sci. Res. Coun. fel, 64; Ford Found. res. & training fel, 65-67; vis. prof, Col. of Mex, 66. U.S.A, 54-56. Polit. Sci. Asn. Latin American politics and social change; methodology of the social sciences; comparative politics. Publ: Politics and communication, Little, 66; co-auth, Enemies in politics, Rand McNally, 67; Cubans in exile, Stanford, 68. Address: Dept. of Political Science, Stanford University, Stanford, Calif. 94305.

FAGER, DR. ROBERT E(UGENE), b. Oak Park, Ill, Aug. 1, 27; m. 53; c. 3. PSYCHOLOGY. B.A, Coe Col, 49; scholar, Ohio State, 49-50, M.A, 51, fel, 53-54, Ph.D.(psychol), 54. Intern psychol, Wichita Guid. Center, 51-52; asst, Ohio State, 50-51, 52-53; instr. & asst. prof, Iowa, 54-59; asst. prof. psychol, col. med, State Univ. N.Y. Upstate Med. Center, 59-67; CHIEF PROG. ANALYST, N.Y. STATE DEPT. MENT. HYG, 67- Assoc. clin. psychologist, Syracuse Psychiat. Hosp, 59- U.S.N, 45-46. Psychol. Asn. Program development in mental health; program evaluation. Address: New York State Dept. of Mental Hygiene, 44 Holland Ave, Albany, N.Y. 12225.

FAGIN, DR. BARRY, b. Covington, Ky, May 22, 14. PSYCHOLOGY. A.B, St. Mary's Col.(Calif), 37; M.A, Columbia, 48, Ph.D, 50. Occup. analyst, U.S. Employ. Serv, 39-43; assoc. dir. testing & consult, Polytech. Inst. Brooklyn, 46-49; dir. counseling, Catholic Univ, 49-50; from asst. prof. to assoc. prof. psychol, Florida, 50-54; dir. occup. res, Bur. Naval Personnel, 54-55; assoc. prof. psychol, Chico State Col, 55-58; Marquette, 58-66; STAFF PSYCHOLOGIST, CALIF. YOUTH AUTHORITY, 66- U.S.N, 43-46, Lt. Psychol. Asn. Constitutional psychology and relation to personality and interest factors; psychology of language; educational psychology; psycholinguistics; group therapy. Publ: Constitutional factors in vocational interests; Principles of educational psychology. Address: 801 48th St, Sacramento, Calif. 95819.

FAGIN, DR. MARGARET C, b. Wauwatosa, Wis, Nov. 24, 13. PSYCHOLOGY. A.B, Lawrence Col, 34; A.M, Chicago, 41; Ed.D, Syracuse, 50. Teacher & dean girls, high sch, Ill, 34-41; asst. to dean, Syracuse, 41-44, acting asst. dean women & asst. dir. women's grad. personnel course, 49-50; prof. psychol. & dean women, Redlands, 44-48; Carroll Col.(Wis), 50-52; prof. psychol. & assoc. dean students, Chico State Col, 52-65; dir, Bus. & Prfnl. Women's Found, 65-66; DIR. CONTINUING ED. FOR WOMEN, MISSOURI, ST. LOUIS, 66- Student personnel problems, especially housing and government; adult education. Publ: Care and feeding of an emaciated A.W.S, J. Nat. Asn. Deans of Women. Address: University of Missouri, 8001 Natural Bridge Rd, St. Louis, Mo. 63121.

FAGOT, PROF. ROBERT F(REDERICK), b. Nicaragua, Cent. Am, July 4, 21; U.S. citizen. PSYCHOLOGY. Ph.D.(psychol, statist), Stanford, 56. Asst. prof. PSYCHOL, OREGON, 56-62, assoc. prof, 62-66, PROF, 66-, ASSOC. HEAD DEPT, 67-, acting head dept, 66-67. U.S.N, 42-46, 53-55, Res, 55-60, Lt. Psychonomic Soc; Psychomet. Soc; Statist. Asn. Experimental psychology; mathematical theory construction in the behavioral sciences. Publ: Co-auth, A model of riskless choice, Behav. Sci, 59, A theory of appropriate statistics, 65 & auth, Alternative power laws for ratio scaling, 66, Psychometrika. Address: Dept. of Psychology, University of Oregon, Eugene, Ore. 97403.

FAHEY, DR. DAVID MICHAEL, Brit. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FAHEY, DR. FRANK J(OSEPH), b. Cleveland, Ohio, July 16, 28; m. 50; c. 4. SOCIOLOGY. A.B, Notre Dame, 49, M.A, 51, Ph.D.(sociol), 59. Instr. SOCIOL, Nazareth Col.(Mich), 51-53; from asst. prof. to ASSOC. PROF, NOTRE DAME, 59- Sociol. Asn; Soc. Appl. Anthrop. Sociology of religion; juvenile delinquency; intergroup tensions. Address: Dept. of Sociology, University of Notre Dame, Notre Dame, Ind. 46556.

FAHEY, PROF. GEORGE L(ITCHFIELD), b. Minn, Oct. 8, 07; m. 38; EDUCATIONAL PSYCHOLOGY. B.A, Iowa, 35; Ph.M, Wisconsin, 37, Ph.D, 39. Instr. PSYCHOL. & ED, Pittsburgh, 39-42, asst. prof, 47-48; assoc. prof, Miami (Fla), 48-49; PITTSBURGH, 49-52, PROF, 52- Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. Psychol. Asn. Applications of psychology to improvement of classroom teaching. Publ: Interdisciplinary seminar in college teaching; Classroom questioning activity of children; Objective evaluation of an experiment in general education. Address: Dept. of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15213.

FAHS, DR. CHARLES B(URTON), b. Brooklyn, N.Y, Sept. 22, 08. GOVERNMENT. B.S, Northwestern, 29, A.M, 31, Ph.D, 33; Berlin, 29-30; Paris, 33-34; Kyoto Imp. Univ, 34-35; Tokyo Imp. Univ, 35-36; hon. Dr, Kokugakuin, 65. Instr. Oriental affairs, Pomona & Claremont Cols, 36-39, asst. prof, 39-45; acting chief div. res. for Far East, U.S. Dept. State, 45-46; asst. dir. humanities, Rockefeller Found, 46-48, assoc. dir, 49, dir, 50-61; minister coun. cultural & pub. affairs, U.S. Embassy, Tokyo, 62-65, minister counsr. cultural affairs, 65-67; Harry C. Trexler vis. prof, Muhlenberg Col, 67-68; DIR. INT. PROGS, MIAMI (OHIO), 68- Vis. prof, Col. Chinese States, Peking, 40-41. Res. analyst, Off. Coordinator Info, 41-42; Off. Strategic Serv, 42-44, chief, Far East Div, res. & anal. br, 44-45; mem, Coun. For. Rels. Polit. Sci. Asn; Asn. Asian Studies; Japan Soc; Asia Soc; hon. mem, Chindan Soc. Korea. Japanese politics. Publ: Government in Japan: recent trends in its scope and operation. Address: 4 Iveswood Dr, Oxford, Ohio 45056.

FAHS, DR. IVAN JOEL, b. Binghamton, N.Y, June 12, 32; m. 57; c. 3. SOCIOLOGY. B.A, Wheaton Col.(Ill), 54; M.Ed, Cornell, 55, Ph.D.(rural sociol), 60. Asst. prof. sociol, Greenville Col, 60-62; assoc. prof, Bethel Col.(Minn), 62-66; MED. SOCIOLOGIST, Northlands Regional Med. Prog, 66-68; UPPER MIDWEST RES. & DEVELOP. COUN, 68- Res. assoc. prev. med, Harvard Med. Sch, 66-67. Sociol. Asn; Pub. Health Asn. Continuing medical education of health personnel, especially physicians, dentists and nurses; distribution of health personnel. Publ: Co-auth, Health manpower for the Upper Midwest, Hill Family Found, 65 & Towns without physicians and towns with only one, Am. J. Pub. Health, 68; The decline of general practice, Pub. Health Reports, 68. Address: Upper Midwest Research & Development Council, Federal Reserve Bank Bldg, Minneapolis, Minn. 55402.

FAIBISH, DR. GEORGE M(AYER), b. Chicago, Ill, Oct. 18, 18; m. 51; c. 2. PSYCHOLOGY. S.B, Illinois, 40; U.S. Pub. Health Serv. fel, 47-48; Ph.D. (psychol), Chicago, 54. Res. supvr. clin. psychol, VET. ADMIN. HOSP, Downey, Ill, 54-55; CLIN. PSYCHOLOGIST, HOUSTON, TEX, 56- Clin. asst. prof, col. med, Baylor, 63-67, clin. assoc. prof, 67-; Houston, 67- U.S.A, 41-45. Psychol. Asn. Psychopathology of thought; schizophrenia; diagnostic testing; psychological effects of brain damage. Address: Veterans Administration Hospital, 2002 Holcombe Blvd, Houston, Tex. 77031.

FAIGENBAUM, DR. DAVID, b. Braddock, Pa, Aug. 10, 21; m. 47; c. 3. PSYCHOLOGY. B.A, Wayne State, 48, M.A, 49; Ph.D.(counseling psychol), Michigan, 58. Res. assoc. ed. & clin. psychol, Wayne State, 48-49; clin. dir, Juvenile Court Clin, Oakland County, Mich, 49-55; DIR. PSYCHOL. SERVS, CHILDREN'S HOSP. OF MICH, 55-; ASST. PROF. PEDIAT. PSYCHOL, COL.

MED, WAYNE STATE, 63-, instr, 58-63. Consult, Child Res. Center of Mich, 55- U.S.A.A.F, 42-46, Sgt. Psychol. Asn; Orthopsychiat. Asn. Juvenile delinquency; emotional reactions of children and parents to hospitalization; psychoanalytic study of children with psychosomatic illnesses; training of pediatricians for early recognition of psychological problems in parent-child relationships. Publ: Patterns of delinquency, J. Clin. Psychol; co-auth, Pediatric supervision in teaching of residents, Am. J. Diseases Children, 6/65; A clinical study of children who fail to thrive: an approach to better understanding and appropriate intervention, Am. J. Orthopsychiat, 3/67. Address: 20237 Beechaven Dr, Southfield, Mich. 48075.

FAIGLE, DEAN ERIC H(ENRY), b. Winterdale, Pa, Aug. 16, 00; m. 29; c. 3. GEOGRAPHY. B.S, Syracuse, 28, M.S, 30; Ph.D.(geog), Michigan, 35. Instr. GEOG, SYRACUSE, 28-35, asst. prof, 35-40, assoc. prof, 40-43, PROF, 43-, DEAN COL. LIB. ARTS, 50-, SCH. SPEECH & DRAMATIC ARTS, 54-, V.PRES, 60-, admin. asst. to dean, 38-42, asst. dean, 42-45, assoc. dean, 45-50. Chmn. subcmt. geog. studies, Nat. Res. Coun. Mem. Nat. Coun. Soc. Studies. Consult. geog. res. sect, U.S. Dept. Army, Wash, 42, 2nd corps area, 44. AAAS; Asn. Am. Geog. Regional geography. Publ: Co-auth, World Geography; auth, Syracuse, a study in urban geography; Our Arctic frontier. Address: Dept. of Geography, Syracuse University, Syracuse, N.Y. 13210.

FAILOR, DR. CLARENCE W(ALKER), Guid, see 10th ed, Soc. & Behav. Vols.

FAILOR, PROF. LEONA MAE, b. Council Bluffs, Iowa. EDUCATIONAL PSYCHOLOGY, PSYCHOLOGY. Ph.D.(ed. psychol, psychol), Nebraska, 40; summer, Minnesota, 60. PROF. ED. PSYCHOL. & PSYCHOL, KEARNEY STATE COL, 41-, chmn. div. ed, 53-62. Psychol. Asn; Int. Coun. Psychol. Clinical psychology; tests and measurements; guidance. Publ: Development and application of the principles of vocational guidance; Evaluation of intelligence tests used in industrial schools and reformatories. Address: 608 W. 26th St, Kearney, Nebr. 68847.

FAILS, PROF. EMOL A(TWOOD), b. Soper, Okla, Feb. 13, 16. ECONOMICS. B.S, Southwest. Inst. Tech, 39; M.A, Peabody Col, 50, Ph.D, 56. Head dept. bus, Sayre Jr. Col, 39-40, dean admin, 40-41; sales mgr, private indust, 46-48; from asst. prof. to assoc. prof. ECON, N.C. STATE, 48-63, PROF, 63- Pres, Fails & Assocs, Mgt. Consult. Distinguished serv. award, Nat. Warm Air Heating & Air Conditioning Asn, 65. U.S.N, 42-46. Am. Acct. Asn. Terminal education in the junior college. Publ: Potential role of the community junior college. Address: Dept. of Economics, North Carolina State University, Raleigh, N.C. 27607.

FAINSOD, PROF. MERLE, b. McKees Rocks, Pa, May 2, 07. POLITICAL SCIENCE. A.B, Washington (St. Louis), 28; A.M, Harvard, 31, Ph.D, 32. Sheldon traveling fel, HARVARD, 32-33, instr. govt, 33-38, asst. prof, 38-44, assoc. prof, 44-46, prof, 46-65, CARL H. PFORZHEIMER UNIV. PROF. GOVT. & DIR. UNIV. LIBRARY, 65-, dep. dir. civil affairs training sch, 44-45, chmn. dept. govt, 46-49, dir, Russian Res. Center, 59-64. Mem. staff, President's Cmt. Admin. Mgt, 36; vis. lectr, Yale, 40; price exec. consumers durable goods, Off. Price Admin, 41-42, dir. retail trade & serv. div, 42-43. Consult, Temporary Nat. Econ. Cmt, 40. U.S.A, 43. Polit. Sci. Asn.(Woodrow Wilson Found. award, 53, pres, 68); Philos. Soc; Am. Acad. Arts & Sci. Government regulation of industry; American people and their government. Publ: International Socialism and the World War; How Russia is ruled; Smolensk under Soviet rule. Address: Harvard University Library, Cambridge, Mass. 02138.

FAIR, DR. DARYL R(USSELL), b. York, Pa, Aug. 25, 38; m. 59. POLITICAL SCIENCE. B.S, Millersville State Col, 59; Ashton scholar & M.A, Pennsylvania, 62, Ashton & univ. scholar & Ph.D.(polit. sci), 65. Instr. ed. & soc. studies, RIDER COL, 63-65, ASST. PROF. POLIT. SCI, 65- Vis. asst. prof, Lehigh, 67-68. Mem, Nat. Coun. Soc. Studies. Polit. Sci. Asn; Law & Society Asn; Acad. Polit. & Soc. Sci. American constitutional law and judicial behavior; American political parties and electoral behavior; empirical and normative political theory. Publ: Party strength and political patronage, Southwest. Soc. Sci. Quart, 64; Reaction of Pennsylvania voters to Catholic candidates, Pa. Hist, 65; An experimental application of scalogram analysis to State Supreme Court decisions, Wis. Law Rev, 67. Address: Dept. of Political Science, Rider College, Trenton, N.J. 08602.

FAIR, PROF. MARVIN L(UKE), Econ, see 10th ed, Soc. & Behav. Vols.

FAIRBANKS, PROF. CHARLES H(ERRON), b. Bainbridge, N.Y, June 3, 13; m. 41; c. 2. ANTHROPOLOGY. A.B, Chicago, 39; M.A, Michigan, 49, Ph.D. 54. Asst, Nat. Park Serv, 39-54; asst. prof. ANTHROP, Fla. State, 54-59, assoc. prof, 59-63; PROF. & CHMN. DEPT, FLORIDA, 63- With Indian claims cmn, U.S. Dept. Justice, 57-; mem, Fla. Adv. Cmt. Underwater Archaeol, 64- U.S.A, 43-46. Fel. Anthrop. Asn; Soc. Am. Archaeol; Soc. Hist. Archaeol. Historical archaeology; ethnohistory. Address: Dept. of Anthropology, University of Florida, Gainesville, Fla. 32601.

FAIRBANKS, PROF. GRANT, Exp. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

FAIRBANKS, DR. ROBERT P(AUL), b. Syracuse, N.Y, Aug. 15, 34; m. 57; c. 2. ECONOMICS. A.B, Syracuse, 56, D.S.S, 63. Instr. gen. studies, State Univ. N.Y. Buffalo, 60; summer res. asst. ECON, Syracuse, 61-63; asst. prof, NORTHERN ILLINOIS, 63-66, ASSOC. PROF, 66- Vis. assoc. prof. inst. govt. & pub. affairs, Illinois, 67-68. Summer res. assoc, Illinois, 64-66. Mem. res. staff, Illinois Cities & Villages Munic. Probs. Cmn, Ill. Legis, 64-68. U.S.A, 57-63, Sgt. Econ. Asn. State and local government finance; fiscal policy; intergovernmental finance and labor economics. Publ: Co-auth, Illinois municipal finance, Univ. Illinois, 68; Politics of property taxation, Admin. Sci. Quart, 6/67; Publish or perish: the labor mobility of professional economists, South. Econ. J, 1/68. Address: Dept. of Economics, Northern Illinois University, DeKalb, Ill. 60115.

FAIRCHILD, PROF. FRED ROGERS, Econ, see 9th ed, Soc. & Behav. Vols, deceased 66.

FAIRCHILD, DR. MONROE, b. Burke, Tex, Jan. 15, 14. CLINICAL PSYCHOLOGY. B.A, Southwestern (Tex), 34; M.S, Houston, 48, Ph.D, 53; summer, Southern California, 48; Pittsburgh, 49. CLIN. PSYCHOLOGIST, Tex. Prison Syst, 53-55; Ment. Health Inst, Iowa, 55-59; State Hosp, Jamestown, N.Dak, 59-60; State Psychiat. Clin, 60-61; STATE HOSP, PROVO, 61- U.S.N, 43-46. Psychol. Asn. Juvenile delinquency and criminology; mental hygiene and preventive programs; rehabilitation. Address: P.O. Box 501, Provo, Utah 84601.

FAIRCHILD, WILMA B(ELDEN), b. Long Beach, Calif, Jan. 14, 15; m. 36. GEOGRAPHY. B.A, Scripps Col, 35; M.A, Clark, 37. Library asst, AM. GEOG. SOC, 38-42, res. asst, 42-49, ED, GEOG. REV, 49- Mem. U.S. nat. cmt, Int. Geog. Union, 62- Jour. Fund Award, 55. Asn. Am. Geog. (meritorious contribution award, 64); Soc. Woman Geog. Cultural geography; geographical bibliography. Address: American Geographical Society, Broadway at 156th St, New York, N.Y. 10032.

FAIRES, DR. WESLEY L, b. El Dorado, Kans, Aug. 28, 32; m. 55; c. 5. LOGOPEDICS. B.A, Wichita, 58, M.A, 62, Inst. Logopedics fel. & Ph.D.(logopedics), Wichita State, 65. Dir. Topeka Field Center, INST. LOGOPEDICS, 58-59, speech pathologist, 59-62, PRECEPTOR, 62-, DIR. CLIN. SERV, 67- Asst. prof, Wichita State, 65- U.S.A. Speech & Hearing Asn; Asn. Ment. Deficiency. Childhood and adult aphasia; mental retardation. Publ: Communicative disorders of the mentally retarded and pseudoretarded, In: Modern treatment, Harper, Vol. 4, 67. Address: Dept. of Logopedics, Wichita State University, Wichita, Kans. 67208.

FAIRFIELD, PROF. ROY PHILLIP, b. Saco, Maine, May 17, 18; m. 39; c. 1. GOVERNMENT. A.B, Bates Col, 43; Townshend fel, Harvard, 45-47, A.M, 47, Ph.D, 53. Asst. Am. hist, Harvard, 45-47; instr. cultural & intellectual hist, Bates Col, 47-51, asst. prof, 51-55, assoc. prof, 55-57; asst. prof. govt. & soc. sci, Ohio, 57-59, assoc. prof, 59-64; prof. & dir. SOC. SCI, Antioch-Putney Grad. Sch. Ed, 64-67, PROF. & CAMPUS COORDINATOR, ANTIOCH COL, 67- Fulbright prof, Athens Col, Greece, 53-54; lectr, U.S. Info. Agency, 54; summers, assoc. prof, Hofstra Col, 56, 58-59. Acad. Polit. & Soc. Sci; Am. Studies Asn. History of the state of Maine, 1865-1900; movement for Cyprus independence; American Constitutional history; American civil liberties. Publ: History of Saco, Maine; Cyprus: revolution and resolution, Middle East J; ed, Federalist papers. Address: Dept. of Social Sciences, Antioch College, Yellow Springs, Ohio 45387.

FAISON, DR. EDMUND W(INSTON) J(ORDAN), Psychol, see 10th ed, Soc. & Behav. Vols.

FAITH, PROF. DON C(ARLOS), Psychol, see 10th ed, Soc. & Behav. Vols.

FAITH, PROF. GOLDIE BASCH, b. Newark, N.J, May 3, 96. SOCIOLOGY. A.B, New Hampshire, 17; B.S, Simmons Col, 19; M.S, Pennsylvania, 37, D.S.W, 51. Psychiat. soc. worker, Child Guid. Clin, Phila, Pa, 25-34; from instr. to PROF. SOC. CASE WORK, PENNSYLVANIA, 34- Social work education. Publ: Toward a spirit of inquiry; Professional school and the social agency: their relationship as affording correlated class and field training for functional practice in social work. Address: School of Social Work, University of Pennsylvania, Philadelphia, Pa. 19119.

FALAISE, PROF. NOEL, b. Montreal, Que, Dec. 25, 25; m. 60; c. 1. GEOGRAPHY. B.A, Paris, 46; Lic. es polit. sci. & M.A, Montreal, 49, Ph.D. (geog), 54. Temporary lectr. geog, MONTREAL, 49-54, from assoc. prof. to PROF. ECON. GEOG, 54- Ed, Can. Geog. Rev, 49- Am. Geog. Soc; Can. Asn. Geog; Soc. French Geog. Economic geography of Canada. Publ: Notions de Geographie Industrielle; L'Habitat aux Iles de la Madeleine; Kitimat. Address: School of Advanced Commercial Studies, University of Montreal, Montreal, Que, Can.

FALCON, DR. WALTER PHILLIP, b. Cedar Rapids, Iowa, Sept. 28, 36; m. 56; c. 2. AGRICULTURAL ECONOMICS. B.S, Iowa State, 58; Danforth fel, Harvard, 58-62, univ. fel, 60-61, A.M, 60, Ph.D.(econ), 62. Instr. econ, HARVARD, 62-63, asst. prof, 63-66, gen. econ. & agr. econ. adv, Pakistan Planning Cmn, 64-65, RES. ASSOC. INT. AFFAIRS, 65-, LECTR. & DEVELOP. ADV. ECON. & DIR. RES. DEVELOP. ADV. SERV, 66- Fulbright scholar, Pakistan, 61-62; consult. interior panel on Pakistan, White House, Washington, D.C, 62-63; Pakistan long-range assistance prog, Agency Int. Develop, Washington, D.C, 63; Rand Corp, Calif, 67- Agricultural development problems of less developed countries. Publ: Co-auth, Economic implications, chap, In: The World Food Problem, Vol. II, President's Sci. Adv. Cmt, White House, 67; auth, Agricultural and industrial inter-relationships in West Pakistan, J. Farm Econ, 12/67; co-auth, Agricultural development in Pakistan, lessons from the second plan period, chap, In: Development Policy—Theory and Practice, Harvard, (in press). Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

FALCONER, GEORGE, b. South Shields, Eng, Nov. 23, 29; m. GEOGRAPHY. B.A, Cambridge, 53, M.A, 56; McGill, 54. Res. analyst, Univ. Toronto, 55-59; GEOGR, DEPT. ENERGY, MINES & RESOURCES, 59- Brit. Army, 48-50. Am. Geog. Soc; Can. Asn. Geog; Arctic Inst. N.Am. Regional terrain analysis and mapping; postglacial history of northern Canadian landscape; cartography as related to atlas and small scale mapping; computer mapping; national atlas of Canada. Publ: Co-auth, Glacial map of Canada, Geog. Soc. Can, 58. Address: Surveys & Mapping Branch, Dept. of Energy, Mines & Resources, Ottawa, Ont, Can.

FALERO, DR. FRANK, JR, b. New York, N.Y, Dec. 22, 37; m. 59; c. 2. ECONOMICS. B.A, South Florida, 64; Nat. Defense Ed. Act fel, Fla. State, 64-67, M.S, 65, Ph.D.(econ), 67. Economist, Fed. Reserve Bank, Richmond, Va, 67; ASST. PROF. ECON, VA. POLYTECH, 67- U.S.A, 55-58. Am. Econ. Asn; Royal Econ. Soc. Production theory; economic growth and development; impact of technology on society. Publ: A note on monopsony, minimum wages and employment, Am. Economist, 66; co-auth, Fifteen years of central banking in Honduras, J. Inter-Am. Studies, 67; auth, The CES and the distribution of income: the case of El Salvador, Kyklos, 68. Address: Dept. of Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

FALK, PROF. I(SIDORE) S(YDNEY), Public Health, see 11th ed, Phys. & Biol. Vols.

FALK, PROF. KARL L, b. Berkeley, Calif, Sept. 12, 11; m. 36. ECONOMICS. A.B, Stanford, 32; von Humboldt fel. & Ph.D.(polit. econ), Berlin, 36. Instr. German, Fresno State Col, 38-42, from asst. prof. to prof. econ, 46-58, head soc. sci. div, 50-63; PRES. & MGR, FIRST FED. SAVINGS & LOAN ASN, 57- Fulbright lectr, Tech. Univ. Stuttgart, Germany, 54-55. Mem, U.S. Nat. Cmn. for UNESCO, 57-59; chmn, Fresno City Housing Authority, 53- U.S.A, 42-46. Econ. Asn; Nat. Asn. Housing & Redevelop. Off.(pres, 60-61). European chemical industry; housing and redevelopment problems. Publ: Wirtschafts Probleme der Amerikanischen Tagespresse; Germany shifts to new technology, Chem. Eng; Government, the economy and the city, Savings & Loan J. Address: First Federal Savings, 1444 Fulton St, Fresno, Calif. 93721.

FALK, DR. LAURENCE L, b. Hoskins, Nebr, May 11, 30; m. 51. SOCIOLOGY. B.A, Ind. Cent. Col, 55; B.D, United Theol. Sem, 58; M.A, Nebraska, 60, Ph.D.(sociol), 62. Pastor, Evangelical United Brethren Church, Nebr, 58-59; asst. prof. SOCIOL, CONCORDIA COL.(MOORHEAD, MINN), 62-64, ASSOC. PROF, 64-, res. leave, 67-68. U.S.A.F, 48-53, S/Sgt. Sociol. Asn; Nat. Coun. Family Rels; Soc. Sci. Study Relig. Aspects of the pastoral role, decisions for entering and conflict within; female roles in American society; trans-racial adoption. Publ: The minister's response to role conflict, Discourse, summer 63; A comparative study of problems of married and single students, 5/64 & Occupational satisfaction of female college graduates, 5/66, J. Marriage & Family. Address: Dept. of Sociology, Concordia College, Moorhead, Minn. 56560.

FALKEY, D(ONALD) BRUCE, b. Phelps, N.Y, Dec. 7, 11. SOCIAL WORK. A.B, Syracuse, 34; M.S.S, Buffalo, 41; Chicago, 48-49. Field dir, Am. Red Cross, Iceland, 42-44; asst. prof. soc. work, Buffalo, 46-56; dir, Cleveland Center Alcoholism, 56-63; ADMIN. DIR, IND. DIV. ALCOHOLISM, 63- Chief info. & rehab. center alcoholism, chronic disease res. inst, Univ. Buffalo, 51-56; secy. & bd. dirs, N.Am. Asn. Alcoholism Progs, 66-67. Public welfare administration; administrative cost of determining settlement of non-settled persons. Sociol. Asn. Publ: Co-auth, Short term treatment of alcoholics, Soc. Work, 7/62, auth, Individual problem drinking on and off the job, J. Occup. Med, 12-62; co-auth, Fundamentals and prospectives in alcoholism program evaluation, Am. J. Pub. Health, 7/66. Address: Indiana Division on Alcoholism, 3000 W. Washington St, Indianapolis, Ind. 46222.

FALL, PROF. BERNARD B, Int. Rels, see 10th ed, Soc. & Behav. Vols, deceased 67.

FALLDING, PROF. HAROLD (JOSEPH), b. Cessnock, N.S.W, Australia, May 3, 23; m. 54; c. 3. SOCIOLOGY. B.Sc, Sydney, 50, B.A, 51, M.A, 55, fel, 56-58; Ph.D.(sociol), Australian Nat. Univ, 57. Sr. lectr. sociol, New South Wales, 59-62; vis. assoc. prof, Rutgers, 63-65; PROF. SOCIOL. & ANTHROP. & CHMN. DEPT, WATERLOO, 65- Australian Army, 42-46, S/Sgt. Fel. Sociol. Asn. Sociology of the family, religion, values and community; sociological theory. Publ: The family and the idea of a cardinal role: a sociological study, Human Rels, 11/61; Functional analysis in sociology, Am. Sociol. Rev, 2/63; Secularization and the sacred and profane, Sociol. Quart, summer 67. Address: Dept. of Sociology & Anthropology, University of Waterloo, Waterloo, Ont, Can.

FALLENBUCHL, PROF. ZBIGNIEW M(ARIAN), b. Katowice, Poland, Nov. 4, 24; nat. Can; m. 50. ECONOMICS. B.Sc, London, 51; M.A, Montreal, 57; Earhart fel, McGill, 58-59, Can. Coun. fel, 59, Ph.D.(econ), 61. Economist, Guardian Assurance Co, Ltd, Eng, 51-55; North British & Mercantile Ins. Co, Ltd, Can, 55-57; lectr. soviet studies, Montreal, 57-58; asst. ECON, McGill, 58-59; asst. prof, WINDSOR, 59-62, assoc. prof, 62-65, PROF, 66- Can. External Aid Prog. prof. econ. & dean faculty soc. sci, Univ. Guyana & econ. adv, Govt. of Guyana, 65-66. Can. Coun. res. grants, 61, 63, 65; participant, Ford Found. faculty res. seminar Soviet econ, Syracuse Univ, summer, 62. Economist, Res. Inst. Contemporary Polish Affairs, Eng, 51-53; res. assoc, Res. Inst. Cent. & East. Europe, Montreal, 57- Polish Army, 42-47, Lt. Am. Econ. Asn; Asn. Study Soviet-Type Econ; Soc. Int. Develop; Can. Polit. Sci. Asn; Can. Asn. Slavists; Brit. Econ. Hist. Soc; Royal Econ. Soc. Macroeconomics; Soviet and international economics; economic development; study of communist policies for economic development; economic development of Guyana. Publ: Investment policy for economic development, Can. J. Econ. & Polit. Sci, 63; Some structural aspects of the Soviet-type investment policy, Soviet Studies, 65; International economic relations in the communist policy of economic development, In: East-west trade, Can. Inst. Int. Affairs, 66. Address: Dept. of Economics, University of Windsor, Windsor, Ont, Can.

FALLERS, DR. LLOYD A(SHTON), JR, b. Nebraska City, Nebr, Aug. 29, 25; m. 49; c. 2. SOCIAL ANTHROPOLOGY. Ph.B, Chicago, 46, M.A, 49, Ph.D. (anthrop), 53; Fulbright scholar, London, 49-50; fel, Makerere Col, Africa, 50-52. Instr. ANTHROP, Chicago, 52-53; lectr, Princeton, 53-54; res. fel, E.African Inst. Soc. Res, Makerere Col, 54-56, dir, 56-57; asst. prof, California, 57-59, assoc. prof, 59-60; CHICAGO, 60-63, PROF, 63- Fel, Center Adv. Study Behav. Sci, 58-59. Anthrop. Asn; African Studies Asn; Int. African Inst. African society and culture; field research in Uganda and Turkey; contemporary processes of social and cultural change in the new nations of Asia and Africa; comparative politics and law. Publ: Co-auth, The King's men, Oxford Univ, 64; auth, Bantu bureaucracy, Univ. Chicago, 65. Address: Dept. of Anthropology, University of Chicago, Chicago, Ill. 60637.

FALLON, PROF. DALE G(EORGE), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 64.

FALLON, DR. DANIEL, Exp. Psychol. See 11th ed, Suppl. II to Phys. & Biol. Vols.

FALLON, EDWARD JOSEPH, b. Rochester, N.Y, Aug. 16, 18; m. 57; c. 3. PERSONNEL & INDUSTRIAL PSYCHOLOGY. A.B, Rochester, 50. Personnel technician, Munic. Civil Serv. Cmn, N.Y, 51; occup. analyst, U.S. Naval Personnel Res. Activity, 51-54, br. head, 54-55, supvr. occup. anal, U.S. Bur. Naval Personnel, 55-56; personnel anal, MARTIN CO, 56-57, MGR. ED. & PERSONNEL DEVELOP, 57- U.S.N, 42-46. Psychol. Asn; Soc. Eng. Ed. Occupational and training research and evaluation; personnel and management development. Address: 1238 Henry Balch Dr, Orlando, Fla. 32810.

FALNES, PROF. OSCAR J, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FAMA, DR. EUGENE F, b. Somerville, Mass, Feb. 14, 39; m. 58; c. 4. ECONOMICS, STATISTICS. B.A, Tufts, 60; M.B.A, Chicago, 63, Ph.D.(econ, finance), 64. Asst. prof. FINANCE, GRAD. SCH. BUS, CHICAGO, 63-65, ASSOC. PROF, 65- Inst. Mgt. Sci; Econ. Asn; Economet. Soc; Statist. Asn. Portfolio models; the behavior of stock market prices; statistics of infinite variance distributions. Publ: Behavior of stock-market prices, J. Bus, 1/65; Portfolio analysis in a stable paretian market, Mgt. Sci, 1/65; co-auth, Cash balance and simple dynamic portfolio problems with proportional costs, Int. Econ. Rev, (in press). Address: Dept. of Finance, Graduate School of Business, University of Chicago, Chicago, Ill. 60637.

FAMADAS, JOSÉ, b. Rio de Janeiro, Brazil, Apr. 10, 08; m. 57; c. 1. CULTURAL ANTHROPOLOGY, LINGUISTICS. B.A. & B.S, Col. St. Vincent de Paul, 27; Univ. of Fed. Dist, Rio de Janeiro, 37; Brazil, 40; Inst. Int. Ed. fel. Michigan, 41-42, M.A, 42; Rockefeller Found. fel, Columbia, 42-43; Wisconsin, summer, 43; Columbia, 43-55. Prof. & dir, Inst. Britannia, Rio de Janeiro, 37-41; assoc. prof, Pedro II Col, 39-41; instr, Am. Council Learned Socs. Inst. Brazilian & Portuguese Studies, Vermont, 42; lectr, exten, Columbia, 43-44, instr. philos, univ, 44-47; sch. gen. studies & exten, City Col. New York, 47-58; ed-in-chief for Brazil & Portugal, Reader's Digest, 47-50; WRITER, ADAPTOR & NARRATOR, U.S. INFO. AGENCY & PRIVATE FILM, RADIO & TV STUDIOS, 50- Radio commentator & panel mem, Nat. Broadcasting Co, 44-45; Off. War Info, 44-45; Columbia Broadcasting Syst, 44-47; press officer, Brazilian Mission to UN, 50-55. Consult ed, New Century Cyclop. Names, 54. Mem, Portuguese & Brazilian bibliog. & res. cmt, Mod. Lang. Asn. Am, 45-46. AAAS; Econ. Asn; Ling. Soc; Acad. Polit. Sci; Acad. Econ. & Polit. Sci; Mod. Lang. Asn; Soc. Lang. Specialists (pres, 58-60); Asn. Teachers Spanish & Portuguese. Latin American area studies: analysis of deceptive factors in scientific study of human capabilities and behavior; history and psychology of magic, illusions, fallacies and frauds. Publ: The Indian in Brazilian literature, Romanic Rev; Bibliografía hispánica, Revista de Filología Hispánica; Michaelis, Columbia Dictionary Mod. European Lit. Address: P.O. Box 752, Flushing, N.Y. 11352.

FAN, DR. KUANG-HUAN, b. China, Sept. 1, 32; m. 66. POLITICAL SCIENCE. B.A, Bethel Col.(Kans), 56; M.A, Brooklyn Col, 58; Ph.D.(polit. sci). N.Y. Univ, 63. Vis. asst. prof. POLIT. SCI, Idaho, 63-64; asst. prof, Col. Great Falls, 64-65; IDAHO, 65-68, ASSOC. PROF, 68- Polit. Sci. Asn. Communist China's behavior in international affairs. Publ: Chinese cultural revolution, Monthly Rev. Press, 3/68. Address: Dept. of Political Science, University of Idaho, Moscow, Idaho 83843.

FANCHER, EDWIN C(RAWFORD), b. Middletown, N.Y, Aug. 29, 23. PSYCHOLOGY. B.A, New Sch. Soc. Res, 49, M.A, 51. Res. interviewer, Yorkville health proj, med. col, Cornell, 53, supvr. interviewers, 54; intern. clin. psychol, Cent. N.J. Ment. Hyg. Clin, 54-55, clin. psychologist, Linden Br, 55-58; PSYCHOLOGIST, COMMUNITY GUID. SERV, 58-; ADMIN. DIR. WASH. SQ. CONSULT. CENTER, 60- Pub, The Village Voice, Inc, 55- U.S.A, 43-46. Psychol. Asn; Sociol. Asn. Szondi test with children: social psychology of marginal groups and individuals. Publ: Co-auth, Comparative study of seven year olds with the Szondi test & Szondi patterns of adolescents, J. Genetic Psychol. Address: 31 W. Tenth St, New York, N.Y. 10011.

FANCHER, DR. RAYMOND E(LWOOD), JR, b. Waterbury, Conn, Apr. 9, 40; m. 64; c. 1. PSYCHOLOGY. B.A, Wesleyan, 62; A.M, Harvard, 64. Ph.D. (clin. psychol), 67. ASST. PROF. PSYCHOL, ROCHESTER, 66- Psychol. Asn. Person perception; clinical inference; sleep and dreams; individual personality assessment. Publ: Explicit personality theories and accuracy in person perception, J. Personality, 66; Accuracy versus validity in person perception, J. Consult. Psychol, 67. Address: Dept. of Psychology, University of Rochester, River Campus, Rochester, N.Y. 14627.

FAND, PROF. DAVID I, b. New York, N.Y, Sept. 27, 22; m. 52; c. 2. ECONOMICS. B.S.S, City Col. New York, 44; M.A, Chicago, 50, Soc. Sci. Res. Coun. fel, 50-51, Ph.D, 54. Asst, workshop money banking, Chicago, 51-53, lectr, sch. bus, 55; economist, Cmt. Econ. Develop, 55-58; assoc. prof. ECON, Southern Methodist, 59-60, PROF, 60-62; State Univ. N.Y. Buffalo, 62-67; WAYNE STATE, 67- Consult, Ed. Testing Serv, 66-67. Econ. adv, Nat. Conf. Cmnr. Uniform State Laws, 64- Am. Econ. Asn; Finance Asn; Economet. Soc; Royal Econ. Soc. Monetary theory; consumer credit; economic theory; capital markets; money and banking. Address: 3410 Burning Bush Rd, Birmingham, Mich. 48010.

FANELLI, A(RNALDO) ALEXANDER, b. New Rochelle, N.Y, Nov. 20, 20; m. 45; c. 1. SOCIOLOGY. A.B, Dartmouth Col, 46, M.A, 48; fel, Michigan, 49-51. Instr. great issues course, Dartmouth Col, 48-49, 51-52; asst. prof. sociol, Miss. State Col, 52-56, res. officer, U.S. Info. Agency, Rome, 56-60, br. pub. affairs officer, 60-62, cultural affairs adv, off. policy & res, 66-67; projs. officer, bur. ed. & cultural affairs, U.S. Dept. State, 62-64, chief, W. Coast, S.Am. progs, 64-66; SPEC. ASST. TO PRES, DARTMOUTH COL, 67- U.S.A.A.F, 41-45, Sgt. Sociol. Asn. Social psychology; communication; community. Publ: Study of organized communities in Mississippi; Louisville surveys its needs; Needs and problems of Mississippi communities. Address: Dartmouth College, Hanover, N.H. 03755.

FANNIN, DR. LEON F(RANCIS), b. Sibley, Ill, Feb. 24, 26; m. 59; c. 4. SOCIOLOGY, ANTHROPOLOGY. B.A, Wisconsin, 53, M.S, 57, Ph.D.(sociol), 62; Fulbright grant, Cologne & Frankfurt, 54-55. Instr. SOCIOL, exten, Wisconsin, 57-58; asst. prof, Beloit Col, 58-59; Ohio, 59-63; assoc. prof, HARTFORD, 63-68, PROF, 68- U.S.A, 44-46. Sociol. Asn; Soc. Study Social Probs. Deviant behavior, particularly delinquent and criminal behavior patterns; analysis of social class affiliation and self-conception. Publ: Trans, So-

ciology in Germany: shift in alignment, In: Contemporary sociological theory, Dryden, 57; co-auth, The conception of self as a male among middle and lower class delinquents, Soc. Probs, fall 65. Address: Dept. of Sociology, University of Hartford, Hartford, Conn. 06117.

FANNING, PROF. JOHN WILLIAM, b. Washington, Ga, Aug. 14, 05; m. 31; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Georgia, 27, M.S.A, 28. Asst. county agent, exten. serv, GEORGIA, 29-30, farm mgt. specialist, 30-32, county agent, 32-34, assoc. prof. agr. econ, 34-36, economist, exten. serv, 36-54, assoc. dir, Ga. Center Continued Ed, 54-56, PROF. AGR. ECON. & CHMN. DEPT, 56-, V.PRES. SERV, 65-, dir. inst. community & area develop, 61. Agr. Econ. Asn. Farm management and credit. Address: 307 Old College, University of Georgia, Athens, Ga. 30601.

FANTZ, DR. ROBERT L(OWELL), b. Muncie, Ind, Sept. 25, 25; m. 60; c. 1. EXPERIMENTAL PSYCHOLOGY. Ph.B, Chicago, 47, Ph.D.(psychol), 54. Asst. psychol, Chicago, 50-53; Yerkes Labs. Primate Biol, 53-55, U.S. Pub. Health Serv. res. fel, 54-56; inst. child welfare, California, 55-56; res. assoc. PSYCHOL, CASE WESTERN RESERVE, 57, asst. clin. prof, 58-64, ASSOC. CLIN. PROF, 64- Instr, Indiana, 52; res. assoc, St. Vincent Charity Hosp, Cleveland, 58-61. U.S.A, 44-46. Psychol. Asn. Early maturation of pattern and spatial vision in birds, primates, and humans; interaction of innate behavior, selective attention, and rearing environment in perceptual development; controlled studies of behavior without training. Publ: Form preferences in newly-hatched chicks, J. Comp. & Physiol. Psychol; Pattern vision in young infants, Psychol. Record; Origin of form perception, Sci. Am. Address: Dept. of Psychology, Case Western Reserve University, Cleveland, Ohio 44106.

FARARO, DR. THOMAS J, b. New York, N.Y, Feb. 11, 33; m. 55; c. 2. SOCIOLOGY. B.A, City Col. New York, 59; N.Y. State & univ. fels, Syracuse, 59-62, Nat. Sci. Found. fel, 61-62, Ph.D.(sociol), 63. Asst. prof. sociol, Syracuse, 63-64; res. fel. pure & appl. math, Nat. Insts. Health, 64-66, spec. fel, 66-67; ASSOC. PROF. SOCIOL, PITTSBURGH, 67- U.S.A.F, 52-56, S/Sgt. Soc. Gen. Syst. Res; Sociol. Asn. Community power structure; theory of random and biased nets; theory of status measurement; general systems; mathematical sociology; pure mathematics. Publ: Co-auth, Study of a biased friendship net, Syracuse Univ. Youth Develop. Center & Press, 64; Nature of mathematical sociology, Soc. Res, 68; Stochastic processes, Sociol. Methodology, 68. Address: Dept. of Sociology, University of Pittsburgh, Pittsburgh, Pa. 15213.

FARAU, DR. ALFRED, Psychol, see 10th ed, Soc. & Behav. Vols.

FARBER, PROF. BERNARD, b. Chicago, Ill, Feb. 11, 22; m. 47; c. 4. SOCIOLOGY. A.B, Cent. YMCA Col, 43; A.M, Chicago, 49, Ph.D, 53. Res. assoc. sociol, Chicago, 51-53; asst. prof. soc. sci, Henderson State Teachers Col, 53-54; res. assoc. SOCIOL, INST. RES. EXCEPT. CHILDREN, ILLINOIS, URBANA, 54-57, asst. prof, 57-60, assoc. prof, 60-64, PROF, 64- Fel. Sociol. Asn; Soc. Res. Child Develop. Family and kinship relations as related to mental health; social relations of exceptional children; family crisis. Publ: Family: organization and interaction, Chandler, 64; Comparative kinship systems, Wiley, 68; Effects of a severely mentally retarded child on family integration. Address: 711 Sunnycrest, Urbana, Ill. 61801.

FARBER, DR. ISADORE E, b. St. Joseph, Mo, May 21, 17; m. 42; c. 2. PSYCHOLOGY. B.A, Missouri, 39, M.A, 40; Ph.D.(psychol), Iowa, 46. Asst, PSYCHOL, Iowa, 46; instr, Rochester, 46-47; asst. prof, Iowa, 47-50, assoc. prof, 50-58, prof, 58-64; PROF, ILLINOIS, CHICAGO, 64-, head dept, 64-68. Consult, U.S. Air Force Personnel & Training Res. Center, 49-56; training consult, Vet. Admin, 57-64. Ed, J. Exp. Res. Personality, 65-, psychol. series, Dodd, Mead & Co, 65- Mem. study sect. psychopharmacol, Nat. Inst. Ment. Health, 62-67. Psychol. Asn; Psychonomic Soc. Personality dynamics; motivation; behavior theory. Publ: A framework for the study of personality as a behavioral science, Wiley, 65; co-auth, Emotions conceptualized as interviewing variables with suggestions toward a theory of frustration, Psychol. Bull; auth, The things people say to themselves, Am. Psychologist, 63. Address: Dept. of Psychology, University of Illinois at Chicago Circle, Box 4348, Chicago, Ill. 60680.

FARBER, PROF. MAURICE L(EE), b. Jersey City, N.J, Mar. 15, 12; m. 55. PSYCHOLOGY. B.S, N.Y. Univ, 32; M.A, Columbia, 34; Ph.D.(psychol), Iowa, 40. Res. assoc. communications, Bur. Appl. Soc. Res, 40-42; lectr. PSYCHOL, N.Y. Univ, 46-47; asst. prof, CONNECTICUT, 48-55, assoc. prof, 55-62, PROF, 62- Rockefeller fel, Columbia, 41-42; vis. prof, London Sch. Econ. & Polit. Sci, 55. Consult, Vet. Admin. Mil. Intel, 42-46, Capt. Psychol. Asn; Asn. Pub. Opinion Res. Psychology of politics; theory of suicide; application of psychoanalytic theory to social sciences. Publ: Anal character and political aggression, J. Abnorm. & Soc. Psychol; New directions in the study of national character, J. Soc. Issues; Armageddon complex, dynamics of opinion, Pub. Opinion Quart. Address: Dept. of Psychology, University of Connecticut, Storrs, Conn. 06268.

FARBER, PROF. WILLIAM O(GDEN), b. Geneseo, Ill, July 4, 10. POLITICAL SCIENCE. A.B, Northwestern, 32, Harris scholar, 32-33, A.M, 33; univ. fel, Wisconsin, 33-35, Ph.D, 35. Asst. prof. govt, South Dakota, 35-37; PROF. sociol. & econ. sci, N.Dak. Agr. Col, 37-38; GOVT, SOUTH DAKOTA, 38- Dir. S.Dak. Govt. Res. Bur, 39-; mem. staff, Off. Price Admin, 42-43; dir, S.Dak. Legis. Res. Coun, 51-55; Int. Coop. Admin. res. adv, Seoul Nat. Univ, Korea, 58-59; minority counsel, U.S. Senate subcmt. nat. policy mach, 60-61, minority consult, subcmt. nat. security & int. opers, 65- U.S.A.A.F, 43-46. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Pub. Admin. State government; public administration; Indian studies. Publ: Co-auth, Indians, law enforcement and local government & Government of South Dakota. Address: Dept. of Government, University of South Dakota, Vermillion, S.Dak. 57069.

FARBEROW, DR. NORMAN L, b. Pittsburgh, Pa, Feb. 12, 18; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.A, Pittsburgh, 38, M.Sc, 40; Ph.D.(psychol), California, Los Angeles, 50. Counsr, voc. counseling center, California, Los Angeles, 46-47; clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Calif, 49-58; RES. PSYCHOLOGIST & PRIN. INVESTR, CENT. RES. UNIT, VET. ADMIN. CENTER, 58- Co-proj. dir, Suicide Prev. Center, Los Angeles. Consult, Los Angeles County Coroner, 58-; Metrop. & Camarillo State Hosps, 59-; conf. probs. prev. suicide, WHO, 66. Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. U.S.A.A.F, 41-46, Capt. Fel. Psychol. Asn.(secy-treas, 66-69); fel. Group Psychother. Asn; fel. Soc. Proj. Tech. & Personality Assessment; Int. Asn. Suicide Prev. Sociopsychological investigation of suicide problem. Publ: Co-ed, Clues to suicide & Cry for help; ed, Taboo topics, Atherton, 63. Address: Central Research Unit, Veterans Administration Center, Bldg. 13, Los Angeles, Calif. 90073.

FARBRO, PATRICK C(LAY), b. Drumright, Okla, Aug. 14, 21. INDUSTRIAL PSYCHOLOGY. A.B, Tulsa, 47; M.S, Purdue, 48. Asst. psychol, Purdue, 47-48; personnel res. analyst, gen. offs, Victor div, RADIO CORP. AM, 48-49, mgr, personnel res. div, 51-57, supvr. employ, electron tube div, 49-51, mgr. training & personnel res, 57-59, PRFNL. PERSONNEL PROGS, 59-67, DIR, 67- U.S.N, 42-46, Lt.(jg). AAAS; Psychol. Asn; N.Y. Acad. Sci; Int. Asn. Appl. Psychol; Soc. Training & Develop.(pres, 67-68); Personnel & Guid. Asn; Indust. Rels. Res. Asn. Industrial training and development of managers and executives; psychological testing; motivation; attitude research, selection and placement; personnel research and training. Publ: Contrib, Validity information exchange, Personnel Psychol; co-auth, Reliability of an abbreviated job evaluation system, J. Appl. Psychol; auth, Scientific and technical personnel development, In: Training and development handbook, McGraw, 67. Address: Radio Corp. of America, Camden, N.J. 08102.

FARDEN, PROF. RAYMOND O(SCAR), b. Alexandria, Minn, July 18, 15; m. 44; c. 2. SOCIOLOGY. B.A, Concordia Col, 47; Ph.D, Minnesota, 54. Instr. SOCIOL, CONCORDIA COL.(MOORHEAD, MINN), 48-54, assoc. prof, 54-56, PROF, 56- Fel. center soc. orgn. studies, dept. sociol, Chicago, 65-66. Mem, cmn. res. & soc. action, Am. Lutheran Church, 62- U.S.N, 42-46, 50-52. Sociol. Asn. Personality; culture; social thought; sociology of organizations. Address: 1019 11th Ave. S, Moorhead, Minn. 56560.

FARHI, PROF. VICTOR R, b. New York, N.Y, May 17, 17; m. 42; c. 2. ECONOMICS, STATISTICS. B.S, City Col. New York, 37; M.B.A, N.Y. Univ, 48, Ph.D, 52. Economist & statistician, Moody's Investors Serv, 45-53; economist, Bank of New York, 53-63; Fed. Home Loan Bank of New York, 63-65; PROF. ECON, ST. JOHN'S (N.Y), 65- Lectr, City Col. New York, 51-61; St. John's (N.Y), 61- Chief economist, Bache & Co, 65- U.S.A, 42-45, 1st Lt. Econ. Asn; Statist. Asn; Finance Asn; Asn. Bus. Econ. Business forecasting; money and banking; measurement of the performance of investment funds. Address: 114-59 225th St, Cambria Heights, N.Y. 11411.

FARINA, PROF. AMERIGO, b. Massa Carrara, Italy, Sept. 1, 27; nat; m. 52; c. 2. CLINICAL PSYCHOLOGY. B.A, Yale, 52; U.S. Pub. Health Serv. fel, Duke, 56-57, Ph.D.(psychol), 58. Psychol. trainee, Vet. Admin. Hosp, Roanoke, Va, 55-56; asst. prof. PSYCHOL, Duke, 58-61; CONNECTICUT, 61-67, PROF, 67- Nat. Inst. Ment. Health teacher grant, 58-60; Univ. Res. Found. grant, Nat. Inst. Psychol, Rome, Italy, 67-68. U.S.N, 44-46. Psychol. Asn. Role of parental behavior inpersonal adjustment; schizophrenia. Address: Dept. of Psychology, University of Connecticut, Storrs, Conn. 06268.

FARIOLETTI, MARIUS, b. Turin, Italy, Apr. 22, 08; nat; m. 35; c. 2. ECONOMICS. B.B.A, Chattanooga, 32; scholar & M.A, Oberlin, 33; fel, Duke, 34-35. Instr. econ, Duke, 34-35; analyst econ, U.S. Dept. Agr, 35-39; staff economist & asst. dir, div. tax res, U.S. DEPT. TREASURY, 39-48, asst. dir, plans & policy div, INTERNAL REVENUE SERV, 48-66, DIR, PLANNING & ANAL. DIV, 66- Lectr, Catholic Univ, 37-39. Econ. Asn; Statist. Asn; Tax Asn. Taxation. Publ: Some results from the first year's audit control, Nat. Tax J; Some income adjustment results from the 1949 audit control program, In: Appraisal of the 1950 census income data. Statistical records for the management and control of tax administration, In: Problems of tax administration in Latin America, Johns Hopkins, 65. Address: 4822 Third St. N, North Arlington, Va. 22203.

FARIS, DR. JAMES C(HESTER), b. Durango, Colo, Nov. 1, 36; m. 58; c. 4. SOCIAL ANTHROPOLOGY. B.S, New Mexico, 58; fel, Memorial Univ, 64-66; Ph.D.(soc. anthrop), Cambridge, 66. Asst. prof. anthrop, McGill, 65; LECTR. SOC. ANTHROP, KHARTOUM, 65- Ford Found. res. grant, 65-; sr. Fulbright award adv. res. & univ. lecturing, 66-67. Fel. Am. Anthrop. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; fel. Brit. Asn. Social Anthrop. Social organization; kinship studies; socio-linguistics; methodology; ethnography; community studies; North America; Africa. Publ: Cat Harbour: a Newfoundland fishing settlement, Inst. Soc. & Econ. Res, 66; Validation in ethnographic description, Man, Vol. 3, 1; Dynamics of verbal behavior, Anthropologica, Vol. 8, 2. Address: Dept. of Social Anthropology, University of Khartoum, Khartoum, Sudan.

FARIS, PROF. J(ESSE) EDWIN, JR, b. Wenatchee, Wash, Jan. 6, 28; m. 51; c. 4. AGRICULTURAL ECONOMICS. B.S, Wash. State, 48, M.S, 51; Ph.D, N.C. State Col, 55. Farm planner, soil conserv. serv, U.S. Dept. Agr, 48-49; res. assoc. AGR. ECON, Wash. State, 51-52; asst, N.C. State Col, 53-55; asst. prof, CALIFORNIA, DAVIS, 55-61, assoc. prof, 61-67, PROF, 67- Nat. Sci. Found. fel, Illinois, 62-63. Adv, Chile-Calif. Prog, Chile, 66-67. U.S.N, 45-46. Agr. Econ. Asn. Production economics, especially farm management problems; linear programming; amortization procedures; aggregative analysis; methodology. Publ: Analytical techniques used in determining the optimum replacement pattern; and Economics of scale in crop production, J. Farm Econ; co-auth, Application of linear programming in an analysis of economic changes in farming, Rev. Econ. & Statist. Address: Dept. of Agricultural Economics, University of California, Davis, Calif. 95616.

FARIS, PROF. ROBERT E. L(EE), b. Waco, Tex, Feb. 2, 07; m. 31; c. 3. SOCIOLOGY. Ph.B, Chicago, 28, fel, 29-31, A.M, 30, Ph.D, 31. Instr. SOCIOL, Brown, 31-36, asst. prof, 36-38; McGill, 38-40; assoc. prof, Bryn Mawr Col, 40-43; from assoc. prof. to prof, Syracuse, 43-48; PROF, WASHINGTON (SEATTLE), 48-, head dept, 53-66. Sociol. Asn.(pres, 61); Sociol. Res. Asn.(pres, 59). Social factors in mental disorders; sociology of genius; urban ecology. Publ: Social disorganization; Social psychology; Chicago

sociology, 1920-1932, Chandler Pub, 67. Address: Dept. of Sociology, University of Washington, Seattle, Wash. 98105.

FARLEY, DR. ALBERT L(EONARD), b. Victoria, B.C, Sept. 12, 20; m. 44; c. 2. GEOGRAPHY. B.A, British Columbia, 48, M.A, 49; univ. fel. & Can. Soc. Sci. Res. Coun. fel, Wisconsin, 52-53, Ph.D.(geog), 60. Geogr, B.C. Lands Serv, 52-58; ASSOC. PROF. GEOG, BRITISH COLUMBIA, 58- R.C.N, 41-45. Asn. Am. Geog; fel. Am. Geog. Soc; Can. Asn. Geog. Cartography; historical cartography and geography, especially of the Pacific Northwest; air photo interpretation. Address: Dept. of Geography, University of British Columbia, Vancouver 8, B.C, Can.

FARLEY, PROF. FLORENCE SAUNDERS, b. Roanoke, Va, May 28, 28; m. 55. PSYCHOLOGY. B.S, Va. State Col, 50, M.S, 55. Psychologist & teacher, Bellevue Sch, 50-51; psychologist & intern, Crownsville State Hosp, Md, 54-55; chief psychologist, Cent. State Hosp, Petersburg, Va, 55-62; ASST. PROF. PSYCHOL, VA. STATE COL, 62- W.A.C, 51-53, 1st Lt. AAAS; Psychol. Asn. Psychopathology and psychodiagnostics. Address: Dept. of Psychology, Virginia State College, Petersburg, Va. 23806.

FARLEY, DR. GARY EUGENE, b. Kansas City, Mo, May 24, 36; m. 61; c. 1. SOCIOLOGY. B.A, Missouri, Kansas City, 57; B.D, Midwest. Baptist Theol. Sem, 61; Th.D.(soc. ethics), Southwest. Baptist Theol. Sem, 66. Teacher, pub. schs, Mo, 57-62; ASSOC. PROF. SOCIOL, CARSON-NEWMAN COL, 65- Minister, Baptist Church, Mo, 57-62. Consult, Tenn. Valley Authority, 66-67; Douglas-Cherokee Econ. Authority, 67. Soc. Sci. Study Relig; Am. Acad. Arts & Sci; Sociol. Asn. Social ethics; social change; sociology of religion; social control, especially problems of Appalachia. Publ: Co-auth, Ethical outline and exegesis of key Biblical passages, Southwest Sem, 64; auth, Portrait of poverty, Faculty Studies, 67; co-auth, Socioeconomic study of Hancock Co, Tenn, Tenn. Valley Authority, 67. Address: Dept. of Sociology, Carson-Newman College, Jefferson City, Tenn. 37760.

FARLEY, PROF. JOHN T(HOMAS), b. Jersey City, N.J, Sept. 4, 13; m. 39; c. 3. MARKETING, ECONOMICS. B.B.A, Manhattan Col, 36; M.S, Columbia, 38; fel, Duke, 38-39. Instr. econ. & finance, Duquesne, 39-42; econ. analyst, Off. Price Admin, 42-43; economist & ed. pubs, War Prod. Bd, 43-45; financial analyst, Navy Price Adjust. Bd, 45-46; mkt. & econ. res. specialist, Gen. Elec. Co, 46-61; ASSOC. PROF. BUS. ADMIN. & ECON, COL. OF GREAT FALLS, 61-, CHMN. DEPT, 65- Mkt. Asn; Econ. Asn. Business forecasting; industrial marketing. Publ: Great Falls Tenth Avenue South traffic impact study, 64. Address: Dept. of Business Administration & Economics, College of Great Falls, Great Falls, Mont. 59401.

FARLEY, PROF. RAWLE, b. Guyana, S.Am, May 9, 22; m; c. 4. ECONOMICS. B.A, London, 45, Brit. Coun. scholar, 48-50, B.Sc, 50, Ph.D.(econ), 56; Univ. Col. W.Indies Geedes fel, London Sch. Econ, 50-52; Glasgow, 55; Int. Labor Off. fel, Oxford, 55-56. Civil servant, Guyana Govt, 41-45; teaching, Brit. Honduras & Caribbean, 45-47; resident tutor Brit. Honduras, econ. develop, Univ. Col. W.Indies, 52-55, sr. lectr. & staff tutor for Caribbean, econ. & indust. rels, 55-58, dir. extra-mural dept, 58-60; mem. Tanganyika Govt. Salaries Cmn, 61; prof. econ. & bus. admin. & dir. center econ. develop. & admin, Inter-Am. Univ. P.R, 62-65; develop. expert & sr. economist, UN & Ministry of Planning, Libya, 64-66; PROF. ECON. & CHMN. DEPT, STATE UNIV. N.Y. COL. BROCKPORT, 66- U.S. Int. Ed. exchange fel, 57; Univ. West Indies-Ford Found. grant, Univ. British Columbia, 59; Henry Clay Found. lectr, Univs. Washington, Rutgers, Washington State, Princeton, Columbia & New York, 61; observer, annual gen. meeting, bd. gov, Inter Am. Develop. Bank, Caracas, Venezuela, 63; counsr, Constitutions & Admin. Orgn. New States, Palermo, Sicily, 63; participant, Caribbean Orgn-Ford Found. seminar planning techniques & methods, San Juan, P.R, 64; expatriate economist, cmt. preparing & recommending annual develop. budget, Kingdom of Libya, 64-65 & 65-66. Adviser, Govt. Cmn. Inquiry Sugar Indust, St. Kitts, B.W.I, 60. Permanent mem, Pub. Serv. Cmn, Fed. Govt. B.W.I, 58; mem, Coun. Univ. Col. West Indies, 58-59; dir, Labour Ed. Conf, Univ. West Indies & chmn, Jamaica Govt. Essential Serv. Arbit. Tribunals, 59; chmn, Barbados Govt. Sugar Cmn. Inquiry, 62; Caribbean Orgn-Agency Int. Develop. fel. awards cmt, P.R, 63-64; second session, Ford Found. Caribbean Scholars Conf, Univ. West Indies, 64. Soc. Int. Develop; Am. Econ. Asn; Latin Am. Studies Asn; fel. Royal Econ. Soc. Economic planning and development; education and economic development; ideology and economic development; fiscal planning. Publ: Co-auth, Industrial relations and the British Caribbean, Univ. London, 62; auth, Puerto Rico—urbanization, development and integration, Int. Inst. Differing Civilizations, Brussels, Belgium, 67 & Kaldor's budget in retrospect, Inter-Am. Econ. Affairs, 62. Address: Dept. of Economics, State University of New York College at Brockport, Brockport, N.Y. 14420.

FARMAN, DR. CARL H(UGO), b. Napa, Calif, Dec. 10, 01; m. 34; c. 2. SOCIOLOGY. A.B, Southern California, 23, Ph.D.(philos), 31; A.M, Harvard, 29. Asst. prof, sch. philos, Southern California, 29-33; bibliographer, U.S. Soc. Security Bd, 36-44; SOC. ADMINSTR. RES. ANAL, U.S. FED. SECURITY AGENCY & U.S. DEPT. HEALTH, ED. & WELFARE, 44- Social security documentation; foreign social security systems. Publ: Social security legislation throughout the world; Old-age, survivors and invalidity programs throughout the world, 1954; Increased living costs and social security benefits. Address: 1601 Jonquil St. N.W, Washington, D.C. 20012.

FARMER, PROF. DONALD R(AYMOND), b. Minneapolis, Minn, Aug. 24, 22. POLITICAL SCIENCE. B.S, Minnesota, 44, Nicholson scholar, 52, Ford Found. fel, 53-54, Ph.D.(polit. sci), 54; Yale, 44. Teacher, pub. schs, Minn, 53-55; asst. prof. polit. sci. & hist, PACIFIC LUTHERAN, 55-58, assoc. prof. POLIT. SCI, 58-62, PROF, 62-, CHMN. DEPT, 57- Mem, Nat. Coun. Soc. Studies. U.S.A, 42-45. Am. Polit. Sci. Asn; Int. Polit. Sci. Asn. Russian area studies; nationality and minority policies; American government. Publ: Theory and practice of Soviet nationality policy. Address: Dept. of Political Science, Pacific Lutheran University, Tacoma, Wash. 98447.

FARMER, DR. DONALD W, European Intellectual Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FARMER, MALCOLM F(RENCH), b. Los Angeles, Calif, Aug. 6, 15; m. 51, 63; c. 1. ANTHROPOLOGY, MUSEOLOGY. B.A, Arizona, 40; fel, Washington, 52-53. Docent, San Diego Mus, 40-41, curator archaeol, 41-43, anthrop, San Diego Mus. of Man, 45-46, dir, 47-50; res. for Navajo Tribe, 50-51; asst. dir. Mus. of North. Ariz, 53-58; curator, soc. studies lab. & instr. SOCIOL. & ANTHROP, WHITTIER COL, 58-65, ASST. PROF, 66- Lectr, San Diego State Col, 47-48; Indiana, 55; California, Los Angeles, 62; Southern California, 63; Rhode Island, summer 65. U.S.A, 43-45. Fel. Anthrop. Asn; Soc. Archaeol; fel. Geog. Soc; Soc. Sci. Study Relig. California and southwest archaeology; origins of Navajo culture; general anthropology; museum management and techniques; concept formation; man's use of the sea. Publ: Amerindian Interlude A.D. 1400-1600. Address: 6164 S. Southwind Dr, Whittier, Calif. 90601.

FARMER, PROF. RICHARD N, b. Alameda, Calif, Aug. 19, 28; m. 51; c. 4. ECONOMICS, MANAGEMENT. B.A, California, Berkeley, 50, M.A, 51, Ph.D.(econ), 57. Export mgr, Calif. Nursery Co, 53-56; assoc. bus. admin, California, Berkeley, 56-57; asst. prof. transportation, mgt. & econ, Beirut, 57-59; gen. mgr, Gen. Contracting Co, Gen. Transportation Enterprises, 59-61; lectr. econ, California, Davis, 61-62; asst. prof. transportation, California, Los Angeles, 62-64; assoc. prof. INT. BUS, INDIANA, 64-67, PROF, 67-, CHMN. DEPT, 66- Teaching asst, California, Berkeley, 55-56. Consult, center indust. develop, UN Dept. Econ. & Soc. Affairs, 66. A.U.S, 51-53, Sgt. Econ. Asn; Acad. Mgt; Asn. for Ed. Int. Bus. Transportation economics; comparative and international management; economic development. Publ: Co-auth, Comparative management and economic progress, 65 & International business: an operational theory, 66, Irwin; auth, Management in the future, Wadsworth, 67. Address: Graduate School of Business, Indiana University, Bloomington, Ind. 47401.

FARMILO, DR. CHARLES G, Org. Chem, see 11th ed, Phys. & Biol. Vols & Suppl. II & IV.

FARNELL, DR. WERNER F, b. Berlin, Germany, Jan. 24, 23; nat. FINANCE, ECONOMICS. B.S, Munich, 47; M.B.A, N.Y. Univ, 51, Ph.D, 55. Asst. prog. officer econ. res, UN Children's Fund, N.Y, 48-53; financial analyst, Chrysler Corp, 54-55, consult, 55; ASSOC. PROF. finance & econ, Detroit, 55-62; FINANCE, ST. JOHN'S (N.Y), 62- Found. Econ. Ed. summer fel, Chase Manhattan Bank, N.Y, 62. Econ. Asn; Finance Asn. European common market. Publ: Developments and features of current interest in the West German automobile market; The structure of the German banking system, Bayerische Vereinsbank Munich, Germany, 9/65; Wertpapieranlage in den U.S.A, Fritz Knapp Verlag, Frankfurt, Germany, 11/67. Address: Dept. of Finance, St. John's University, Grand Central & Utopia Pkwys, Jamaica, N.Y. 11432.

FARNHAM-DIGGORY, DR. SYLVIA, b. Lynchburg, Va, Aug. 16, 27; m. 61; c. 2. DEVELOPMENTAL PSYCHOLOGY. A.B, Chicago, 46; M.A. & Ph.D. (psychol), Pennsylvania, 61. Res. psychologist, East. Pa. Psychiat. Inst, Phila, 61-64; U.S. Pub. Health Serv. fel, California, Los Angeles, 64-65; res. psychologist, Phila. Child Guid. Clin, 65-66; vis. asst. prof. PSYCHOL, Carnegie Inst. Tech, 66-67, ASST. PROF, CARNEGIE-MELLON UNIV, 67- Psychol. Asn; Soc. Res. Child Develop. Cognitive processes in normal and non-normal children, especially integration of symbolic information. Publ: Self, future and time: a developmental study of psychotic, brain-damaged and normal children, Monogr. Soc. Res. Child Develop, 67; Symbol and synthesis in experimental reading, Child Develop, 67; Verbal compensation, cognitive synthesis and conservation, Merrill-Palmer Quart. Behav. & Develop, 68. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

FARNSWORTH, PROF. CLYDE H(OUSTON), b. Johnson City, Tenn, Oct. 6, 08; m. 29; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Tennessee State, 29; A.B, Union (Tenn), 34; A.M, Ohio State, 39; D.Litt, Webster, 45; M.S, Miss. State Col, 51; Ed.D, Duke, 54. Head dept. econ. & bus. admin, Union (Tenn), 32-46, debate coach, 35-46; head dept. econ. & bus. admin, Miss. Col, 46-47; head dept. mkt, Miss. State Col, 47-51; lectr. econ, Wake Forest Col, 51-55; prof, div. prfnl. serv. & head dept. ed, Queens Col.(N.C), 55-57; PROF. BUS. ADMIN. & ECON. & ADV. TO GRAD. STUDENTS, EAST TENN. STATE, 57- Vis. prof, Furman, summer, 57; prof. & chmn. div. bus. & econ, Ouachita Baptist, 61-62. Psychologist, Presby. & Charlotte Mem. Hosps, N.C, 55-57. Consult, pub. schs, N.C, 55-57. U.S.A.A.F, 42-46. Econ. Asn; Mkt. Asn; Acad. Polit. Sci. Supervision; economic problems; business practices. Publ: College business law; Psychology as applied to business and industry; Principles of marketing. Address: Dept. of Business Administration, East Tennessee State University, Johnson City, Tenn. 37601.

FARNSWORTH, PROF. FRANK ALBERT, JR, b. Manchester, N.H, June 4, 19; m. 43; c. 4. ECONOMICS. B.A, Colgate, 39; M.A, Harvard, 46, Ph.D.(econ), 52. Instr. ECON, COLGATE, 41-43, asst. prof, 43-46, assoc. prof, 46-57, PROF, 57-, chmn. dept, 58-62, acting chmn, 67-68. Vis. res. fel. human rels, grad. sch. bus. admin, Harvard, 47-48; Fulbright res. fel, Norweg. Sch. Econ. & Bus. Admin-Norweg. Fisheries Admin, Bergen, 54-55; vis. prof, Maxwell Sch, Syracuse, summer 60. Consult, Fed. Reserve Bank Boston, 54-61. Econ. Asn; Mgt. Asn. Industrial organization and business leadership; origins of entrepreneurship. Address: Dept. of Economics, 412 Alumni Hall, Colgate University, Hamilton, N.Y. 13346.

FARNSWORTH, PROF. HELEN C(HERINGTON), b. Columbus, Ohio, Jan. 23, 03; m. 26; c. 2. ECONOMICS. B.Sc. & M.A, Ohio State, 24; Ph.D.(econ), Stanford, 30. Res. asst, FOOD RES. INST, STANFORD, 29-32, res. assoc, 32-36, assoc. economist, 36-45, ECONOMIST, 45-, PROF, 50-, assoc. prof, 45-50, assoc. dir, 60-62. Econ. Asn; Agr. Econ. Asn. International trade; national agricultural policies; food consumption. Publ: Co-auth, French and EEC grain policies and their price effects, 1920-1970, Food Res. Inst. Studies, 67; auth, The problem multiplying effects of special wheat programs; Defects, uses and abuses of national food supply and consumption data. Address: Food Research Institute, Stanford University, Stanford, Calif. 94305.

FARNSWORTH, DR. JOHN R(USSELL), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FARNSWORTH, DR. LEE W(INFIELD), b. Salt Lake City, Utah, Mar. 6, 32; m. 53; c. 7. POLITICAL SCIENCE. A.B, California, Berkeley, 57, univ. fel, 57, M.A, 60; Nat. Defense For. Lang. fel, Stanford, 61-62; Nat. Defense For. Lang. & Haynes summer fels. & Ph.D.(govt), Claremont Grad. Sch. & Univ. Center, 63. Asst. prof. govt, Fla. State, 62-64; POLIT. SCI, BRIGHAM YOUNG, 64-66, ASSOC. PROF. POLIT. SCI. & DIR. ASIAN RES. INST, 66-, faculty res. fels, 66 & summer 67. U.S.A, 53-56. Polit. Sci. Asn; Asn. Asian Studies; Asn. Teachers Japanese. Japanese political factions and parties; international politics of Asia, especially Sino-Japanese relations. Publ: Challenges to factionalism in Japan's Liberal-Democratic party, Asian Surv, 9/66; China and Japan: an analysis of conflict, Brigham Young Univ. Studies, winter 66; Social and political sources of political fragmentation in Japan, J. Polit, 5/67. Address: Dept. of Political Science, Brigham Young University, Provo, Utah 84601.

FARNSWORTH, PROF. P(AUL) R(ANDOLPH), b. Waterbury, Conn, Aug. 15, 99; m. 26; c. 2. PSYCHOLOGY. B.A, Ohio State, 21, M.A, 23, fel, 24-25, Ph.D.(psychol), 25; Missouri, 23. Instr. PSYCHOL, Ohio State, 22-24; STANFORD, 25-26, asst. prof, 26-31, assoc. prof, 31-42, prof, 42-64, EMER. PROF, 64- Act. prof, Wisconsin, 39-40, summer lectr, 38; summers, acting asst. prof, Ohio State, 31; lectr, Chicago, 42. Ed, Annual Rev. Psychol, 55-68. AAAS (v.pres, I, 50); Psychol. Asn; Musicol. Soc; Soc. Aesthetics. Psychology of music; social attitudes; stereotyping. Publ: Co-auth, Social psychology; Musical taste, its measurement and cultural nature; Social psychology of music. Address: Dept. of Psychology, Stanford University, Stanford, Calif. 94305.

FARNUM, DR. HOLLIS B(ERTRAND), b. Providence, R.I, June 12, 21; m. 43; c. 2. PSYCHOLOGY. B.S, Rhode Island, 43; fel. & M.S, Pa. State, 48, Ph.D. (psychol), 50. Asst. prof. psychol, Temple, 49-51; personnel officer, Nat. Dairy, 51-52; from asst. dir. div. univ. exten. to DIR. ADV. SERVS, EXTEN, RHODE ISLAND, 53- Proj. dir. fed. grant for statewide plan voc. rehab, R.I, 67-68. Mem, Gov. Cmn. on Title 1 of 1965 Ed. Act. 67- U.S.A. 43-46, Capt. Psychol. Asn; Personnel & Guid. Asn; Univ. Exten. Asn. Industrial and counseling psychology; adult education; selection criteria related to the success of the older student in graduate school. Publ: A new look at the evening college student, Adult Ed. J, 65; The case for the 3 hour class, 66 & More on the 3 hour class, 67, Nat. Univ. Exten. Asn. Spectator. Address: 31 Highland Ave, North Providence, R.I. 02911.

FARON, PROF. LOUIS C(HARLES), b. New York, N.Y, July 16, 23; m. 45; c. 2. SOCIAL & CULTURAL ANTHROPOLOGY. A.B, Columbia, 49, Ph.D. (anthrop), 54; Doherty Found. fel. to Chile, 52-53. Nat. Insts. Health fel, 55; res. assoc. ANTHROP, Illinois, 55-59; asst. prof, Los Angeles State Col, 59-62; assoc. prof, Pittsburgh, 62-64; PROF, STATE UNIV. N.Y. STONY BROOK, 64- Nat. Sci. Found. fels. Panama, 60, Mexico, 62 & 63-64. Mem. exped. Peru, Univ. Illinois Proj, 57-59. U.S.A, 43-46, Sgt. AAAS; fel. Anthrop. Asn; Acad. Polit. & Soc. Sci; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. Comparative social structure of patrilineal and bilateral systems; coastal Peruvians and Otomi Indians of Central Mexico. Publ: Mapuche social structure; co-auth, Native peoples of South America; auth, Hawks of the sun, Univ. Pittsburgh, 64. Address: Dept. of Anthropology, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

FARQUHAR, PROF. WILLIAM W(ALTER), b. Omaha, Nebr, Mar. 3, 28; m. 49; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Omaha, 50, M.A, 51; Ph.D, Minnesota, 55. Instr. PSYCHOL, Minn. State Teachers Col, Bemidji, 55, St. Cloud, 55-56; asst. prof, Ohio State, 56; assoc. prof, MICH. STATE, 56-62, PROF, 62- U.S. Off. Ed. grant acad. motivation, 59-61 & motivation Puerto Rican youth, 64-67; Nat. Defense Ed. Act Title VII grand develop. IPR, 63-64. Consult, Flint Sch. Bd, 66-67. Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. Academic motivation; counseling; learning. Publ: Learning to study; Effects of three teaching methods on achievement and motivational outcomes in a how-to-study course. Address: 439 Erickson Hall, Michigan State University, East Lansing, Mich. 48823.

FARQUHARSON, DR. PATILU, Psychol, see 11th ed, Phys. & Biol. Vols.

FARR, DEAN DAVID M. L, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FARR, PROF. GRANT N(OEL), b. Ogden, Utah, Dec. 25, 19; m. 45; c. 2. ECONOMICS. B.S, California, 42, Flood fel, 46-47, M.B.A, 47, Ph.D.(econ), 55. Instr. econ, Colorado, 49-51; asst. regional economist, Off. Price Stabilization, Wash, 51-52; asst. prof. ECON, Colorado, 52-57, assoc. prof, 57-61, prof, 61-63; PROF. & HEAD DEPT, PA. STATE, 63- Summer vis. assoc. prof, California, 61. U.S.A, 42-46, Sgt. Econ. Asn; Econ. Hist. Asn. Economic history of the New Deal, particularly American labor legislation. Publ: Co-auth, Development and utilization of human resources; a guide for research, Inst. Res. Human Resources, 67 & Public assistance and services in Colorado; Origins of recent labor policy. Address: Dept. of Economics, Pennsylvania State University, University Park, Pa. 16802.

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FARR, PROF. THOMAS S(ARGENT), b. Solon Springs, Wis, Dec. 27, 15; m. 38; c. 3. INTERNATIONAL RELATIONS. A.B, Drury Col, 40; Ph.D.(int. rels), Chicago, 53. Teacher soc. sci. & polit. sci, Chicago City Jr. Col, 48-57; assoc. prof. polit. sci, NORTHEAST. ILL. STATE COL, 57-65, PROF. INT. RELS, 65-, CHMN. DIV. SOC. SCI, 61- Mem, For.Asn-World Affairs Center. U.S.A.A.F, 43-45, Capt. Acad. Polit. & Soc. Sci. European integration; democratic control of foreign policy; human relations; war and peace; war prevention. Publ: State of Illinois, Benefic, 68; contrib, Role of government in society & Democracies and dictatorships, Soc. Sci; Peace and world organization, In: Introduction to social science. Address: Dept. of International Relations, Northeastern Illinois State College, 5500 N. St. Louis St, Chicago, Ill. 60625.

FARRANT, DR. R(OLAND) H(ARVARD), b. Perth, West. Australia, Aug. 5, 21; m. 49; c. 2. PSYCHOLOGY, AUDIOLOGY. B.A, Western Australia, 43; B.A, Melbourne, 49; Australian Commonwealth Pub. Serv. scholar, Northwestern, 58-60, M.A, 59, Ph.D.(audiological psychol), 61. Sr. tutor psychol, Melbourne, 47-49; chief psychologist, Commonwealth Acoustic Labs, Dept. Health, Australia, 49-58, asst. dir. audiological psychol, 61-65; PROF. PSYCHOL. & HEAD DEPT. PSYCHOL. & SOCIOL, LAURENTIAN, 65- Australian Militia Force, 40. Speech & Hearing Asn; fel. Brit. Psychol. Soc; fel. Australian Psychol. Soc. Audiology and developmental psychology especially language disorders in children. Publ: The audiometric testing of children in schools and kindergartens, J. Auditory Res, 60; The intellective abilities of deaf and hearing children compared by factor analyses, Am. Ann. of Deaf, 64; co-auth, The effect of hearing aid use on the residual hearing of children with sensorineural deafness, Ann. Otol, Rhinol. & Laryngol, 65. Address: Dept. of Psychology & Sociology, Laurentian University, Sudbury, Ont, Can.

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FARRELL, PROF. BRYAN H(ENRY), b. Auckland, N.Z, Apr. 23, 23; m; c. 3. GEOGRAPHY. B.A, Canterbury, 48; M.A, Washington (Seattle), 49; Ph.D, Auckland, 61. Instr. GEOG, Southern Methodist, 49-51; from asst. lectr. to sr. lectr, Auckland, 51-60; assoc. prof, Alberta, 61-63; PROF. & HEAD DEPT, VICTORIA (B.C), 63- Asn. Pac. Coast Geog; Can. Asn. Geog; N.Z. Geog. Soc; Polynesian Soc. Agriculture, regional geography and land tenure of the Southwest Pacific; resource geography; cultural geography, especially perception of environment by nonwestern cultures. Publ: Power in New Zealand: a geography of energy resources; New Zealand water power: present-day problems and developments, Geog. Rev; co-auth, Village agriculture, In: Western Samoa: land life and agriculture in the tropical Pacific. Address: Dept. of Geography, University of Victoria, Victoria, B.C, Can.

FARRELL, DR. JOHN H(AROLD), Forestry, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

FARRELL, PROF. JOHN PATRICK, b. Escanaba, Mich, June 9, 32; m. 53; c. 3. GEOGRAPHY. A.B, Michigan, 54, M.A. & Racham grant, 55. Asst. prof. GEOG, Southwestern Louisiana, 59-60; NORTHERN MICHIGAN, 60-66, ASSOC. PROF. & DIR. RES. & DEVELOP, 66- Chmn, Pictured Rocks Nat. Shoreline Adv. Cmn, 67-69. Asn. Am. Geog; Nat. Coun. Geog. Ed. Cartography; mineral geography; field methods; North America. Address: Dept. of Geography, Northern Michigan University, Marquette, Mich. 49855.

FARRELL, DR. KENNETH R(OYDEN), b. Ont, Jan. 17, 27; nat; m. 51; c. 5. AGRICULTURAL ECONOMICS, MARKETING. B.S.A, Toronto, 50; M.S, Iowa State, 55, Ph.D, 58. Res. assoc. & instr. agr. econ, Iowa State, 54-57; lectr, univ, exten. economist & assoc, Giannini Found, California, Berkeley, 57-66, asst. dir. exten. ed, 66-67; DIR. MKT. RES, MKT. ECON. DIV, ECON. RES. SERV, U.S. DEPT. AGR, 67- Fulbright lectr, Naples, 63-64; economist, Nat. Cmn. Food Mkt, D.C, 65-66. R.C.N, 46. Agr. Econ. Asn; Econ. Asn. Agricultural marketing and price analysis. Address: Marketing Economics Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

FARRELL, PROF. THOMAS, b. Iowa City, Iowa, Dec. 2, 11; m. 31; c. 2. COMMUNICATIONS. Ph.D, Iowa, 53. Instr. Eng, Iowa, 41-53, assoc. prof, 53-56; prof, col. eng, Michigan, 56-60, ed, Willow Run Labs, 56-60, PROF. bus. commun, Mich. State, 60-68; ENG. COMMUN, IOWA, 68- Ed. consult, U.S. Dept. Commerce, 64-65; Inst. Defense Anal, 67- U.S.N.R, 43-46, Lt. AAAS; Soc. Study Commun; Soc. Eng. Ed; Inst. Elec. & Electronics Eng. Publ: An experiment pays off, Am. Bus. Writers Asn. Bull; Understanding improves communication, Personnel; Communications in food service establishments, 2 parts, Cornell Hotel Quart, 11/64 & 11/65. Address: 710 S. Sommit, Iowa City, Iowa 52240.

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FARRELLY, DR. DAVID G(REGG), b. Springfield, Mass, May 4, 14; m. 41; c. 2. POLITICAL SCIENCE. B.S, Springfield Col, 37; A.M, Pittsburgh, 40; Ph.D, Princeton, 49. Instr, Princeton, 41-43, 46-47, res. assoc. univ. surv, 43; lectr, CALIFORNIA, LOS ANGELES, 48-49, asst. prof. POLIT. SCI, 49-54, ASSOC. PROF, 54-, dir, study center, Padova, Italy, 63-65. Fulbright

award, Italy, 55-56, 59-60. U.S.A, 43-46, Res, 46-, Lt. Col. Polit. Sci. Asn. Political parties; constitutional law. Publ: Politics of California. Address: Dept. of Political Science, University of California, Los Angeles, Calif. 90024.

FARRER, DR. DONALD NATHANAEL, b. Dardanelle, Ark, Mar. 18, 35; m. 57; c. 1. PSYCHOLOGY. B.A, San Jose State Col, 57, M.S, 58; Ph.D. (exp. psychol), Washington State, 62. Res. psychologist, 6571st AEROMED. RES. LAB, HOLLOMAN AIR FORCE BASE, 61-63, chief res. & training br, 63-66, CHIEF PSYCHOL. DIV, 66- Consult, Gulf South Res. Inst, 66- AAAS; Psychol. Asn. Comparative aspects of the cognitive behavior of various non-human primates; physiological optics and visual acuity comparative research on humans and non-human primates. Publ: Co-auth, Refractive characteristics of chimpanzees, Am. J. Optom, 2/64; Visual acuity in monkeys: a monocular and binocular subjective technique, Vision Res, 7/67; auth, Picture memory in the chimpanzee, Perceptual & Motor Skills, 8/67. Address: 6571st Aeromedical Research Lab, Holloman Air Force Base, N.Mex. 88330.

FARRIS, PROF. CHARLES D(ETYENS), b. Jacksonville, Fla, Sept. 15, 14; m. 53; c. 2. POLITICAL SCIENCE. B.S, Florida, 36, M.A, 41; Ph.D, Chicago, 53. Ed. pub. arch surv, Work Projs. Admin, 36-40; instr. POLIT. SCI, Alabama, 49-53, asst. prof, 53-58; assoc. prof. FLORIDA, 58-64, PROF, 64- U.S.A, 42-45, Capt. Political behavior, parties and theory. Publ: Re-enfranchisement of Negroes in Florida, J. Negro Hist; Method of determining ideological groupings in the Congress & Selected attitudes on foreign affairs as correlates of authoritarianism and political science, J. Polit. Address: Dept. of Political Science, University of Florida, Gainesville, Fla. 32603.

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FARWELL, PROF. GAIL FREDERIC, b. Belmont, N.Y, Nov. 15, 21; c. 2. GUIDANCE, COUNSELING. B.S, State Univ. N.Y. Col. Ed. Cortland, 47; M.S, Syracuse, 50; Ed.D, Mich. State, 54. Teacher, Fillmore Central Sch, N.Y, 47-48; dir. guid, pub. schs, N.Y, 48-52; asst. guid. & counseling reading, Mich. State, 52-54; asst. prof, GUID. & COUNSELING, Ohio State, 54-57, assoc. prof, 57-58; WISCONSIN, 58-61, PROF, 61- Vis. prof, Mich. State, 54, 57; Colorado, 62. U.S.N.R, 42-46, Lt.(jg). Psychol. Asn; Personnel & Guid. Asn.(pres. elect, 67-68, pres, 68-69); Asn. Counsr. Ed. & Supv. Counselor preparation and concommitant behavior. Publ: Guidance readings for counselors; co-auth, Introduction to teaching, Macmillan, 63; Guidance: a developmental approach, 2nd ed, Rand McNally, 67. Address: Dept. of Counseling & Guidance, University of Wisconsin, Madison, Wis. 53706.

FARWELL, DR. KIT, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

FARWELL, PROF. LORING C(HAPMAN), b. Chicago, Ill, June 29, 15; m. 42; c. 2. FINANCE. B.S, Mass. Inst. Tech, 37; M.B.A, Northwestern, 40, Newton fel, 47-48, Ph.D.(commerce), 55. Res. assoc, bur. bus. res, Michigan, 40-41; lectr. FINANCE, NORTHWESTERN, 46-55, asst. prof, 55-56, assoc. prof, 56-64, PROF, 64-, admin. officer, grad. div, sch. commerce, 48-50, faculty leader, prog. adv. mgt, Cent. Univ. Venezuela, 57-58. U.S.A, 36-46, Maj. Econ. Asn; Economet. Soc; Finance Asn; Inst. Mgt. Sci. Business and consumer finance; investments. Publ: The stock market, Ronald, 3rd ed, 63; co-auth, Financial institutions, Irwin, 4th ed, 66; Quantitative controls for business, Irwin, 66. Address: 735 Happ Rd, Northfield, Ill. 60094.

FASICK, DR. FRANK APPLEBY, b. Bellwood, Pa, Mar. 22, 28; m. 55; c. 3. SOCIOLOGY. B.A, Pa. State, 51; M.A, Columbia, 55, Nat. Insts. Health fel, 59-60, Ph.D.(sociol), 62. Instr. SOCIOL, Rutgers, 58-59, 61-63, asst. prof, 63-67; ASSOC. PROF, WATERLOO, 67- U.S.A, 46-47. AAAS; Sociol. Asn; Nat. Coun. Family Rels. Socialization of adolescents; patterns of communication between adolescents and parents; educational retardation among the children of migratory farm workers. Address: Dept. of Sociology & Anthropology, University of Waterloo, Waterloo, Ont, Can.

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FATZINGER, PROF. DALE ROGER, b. Allentown, Pa, Jan. 14, 35; m. 55; c. 2. GEOGRAPHY. B.S, Kutztown State Col, 56; M.S, Wisconsin, 58; Mich. State, 62-63. ASSOC. PROF. GEOG. & HEAD DEPT, WIS. STATE, PLATTEVILLE, 57- Asn. Am. Geog; Am. Geog. Soc. Resource development; Latin America. Address: Dept. of Geography, Wisconsin State University, Platteville, Wis. 53818.

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FAUCETT, JACK G(RIFFIN), b. Union, S.C, Apr. 30, 20; m. 46; c. 4. BUSINESS ADMINISTRATION, ECONOMETRICS. B.S, South Carolina, 41; fel, Mass. Inst. of Tech, 47-48; American Univ, 48-54. Economist, dept. commerce, U.S. Bur. Census, D.C, 48-49; bus. economist, dept. labor, U.S. Bur. Labor Statist, 49-54; staff economist, CEIR, Inc, 54-56, dir. data res, 57-60, econ. res, 60-63; PRES, JACK FAUCETT ASSOC, INC, 63- U.S.N.R, 42-46, Lt. Econ. Asn; Statist. Asn; Asn. Bus. Econ; Inst. Mgt. Sci. Inter-industry economics; economic projections; business statistics and forecasting; development and application of economic models used in simulating national economy and operation of business firms. Publ: Mining, fuel and power in the 1947 interindustry relations study, In: Input-output analysis: an appraisal. Address: 5104 River Hill Rd, Washington, D.C. 20016.

FAUCETT, PHILIP M, Econ, see 10th ed, Soc. & Behav. Vols.

FAUCHER, PROF. ALBERT, b. Beauce, Que, July 20, 15; m. 46; c. 4. ECONOMIC HISTORY. B.A, Montreal, 38; Lic. es Sc, Laval, 41; M.A, Toronto, 45. PROF. ECON. HIST, LAVAL, 45- Vis. lectr, Toronto, 49-50; Nuffield Found. fel, London Sch. Econ, 53-54. Econ. Hist. Asn; Can. Hist. Asn; Can. Polit. Sci. Asn. Economic history of Canada, particularly economy of the province of Quebec in the nineteenth century. Publ: Decline of shipbuilding at Quebec in the nineteenth century, Can. J. Econ. & Polit. Sci; L'emigration des Canadiens français au xixe siècle, Recherches Sociographiques. Address: Faculty of Social Sciences, Laval University, Quebec 10, Que, Can.

FAUGHT, DR. MILLARD C, Econ, Sociol, see 10th ed, Soc. & Behav. Vols.

FAUGHT, DR. WILLIAM AVENER, b. Memphis, Tenn, Apr. 17, 17; m. 46; c. 1. AGRICULTURAL ECONOMICS. B.S.A, Arkansas, 40; Gen. Ed. Bd. &

du Pont fels, Virginia, 41-42, M.A, 42, Rockefeller Found. fel, 44-45, Ph.D. (agr. econ), 52; Govt. Employees Training Act. fel, Harvard, 60-61, M.P.A, 61. Instr. voc. agr, high sch, Ark, 42-43; Univ. Arkansas, 44-45; agr. economist, Fed. Reserve Bank of Dallas, 45-48; agr. economist, Agr. Mkt. Serv. & Miss. State Col, 48-55; fibers sect, mkt. orgn. & costs br, Agr. Mkt. Serv, U.S. DEPT. AGR, 55-56, grains & feeds sect, 56-57, head fibers sect, MKT. ECON. DIV, ECON. RES. SERV, 57-63, CHIEF FIBERS & GRAINS BR, 63- Mem. U.S. Dept. Agr. del. study prod, distribution, processing & for. mkt. cotton & oilseeds under exchange agreement, USSR & Rumania, 64. Marketing; public administration. Publ: Cotton price relationships in farmers local markets, Mo. Agr. Exp. Sta. Bull, 57; co-auth, Wool classification service and prices to producers, U.S. Dept. Agr. Bull, 61; auth, A crying need for proper cotton fiber evaluation, Cotton Gin & Oil Mill Press, 62. Address: Marketing Economics Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

FAULK, DR. ELIZABETH HAMMOND, b. Jacksonville, Fla, May 18, 25. PSYCHOLOGY. B.A, Connecticut Col, 47; Columbia, 49; M.A, Florida, 50, fel, 52, Ph.D, 55. Teacher, pub. schs, Fla, 47-49; instr. psychol. & dir. guid. & counseling, Jacksonville, 50-54; psychologist, Caddo Parish Sch. Bd, La, 54-58; trainee clin. psychol, Vet. Admin. Ment. Hyg. Clin, St. Petersburg, Fla. & Hosp, Gulfport, Miss, 58-59; fel, Menninger Found, Kans, 59-61; clin. psychologist, Winter Vet. Admin. Hosp, Topeka, Kans, 61-65; chief clin. psychologist, Dade Co. Child Guid. Clin-Juvenile Court, Fla, 65-66; SR. CLIN. PSYCHOLOGIST & DIR. PSYCHOL. TRAINING, GUID. CENTER, 66- Lectr, Washburn, 60-; vis. prof, Stetson, 66-; adj. prof, Florida, 67. Psychotherapist, outpatient clin, Topeka State Hosp, Kans, 60-; private practice psychother. Consult, Goodwill Industs, La, 57-58; Fla. Coun. for Blind, 66- Psychol. Asn; Acad. Psychother. Comparative psychology and psychophysiological aspects of learning; psychotherapy; suicide study; measuring growth in psychotherapy. Publ: Maze learning of Anolis Carolensis Voigt; Effects of tyrosine derivatives on maze learning and activity level, J. Comp. & Physiol. Psychol; School psychology, Conn. Col. Alumnae Bull. Address: 3011 N. Halifax Dr, Daytona Beach, Fla. 32018.

FAULKENBERRY, DR. G(ERALD) DAVID, b. Wapanucka, Okla, May 28, 37; m. 61; c. 2. STATISTICS. B.S, Southeast. State Col, 59; M.S, Okla. State, 62, Ph.D.(statist), 65. ASST. PROF. STATIST, Okla. State, 65; OREGON STATE, 65- Statist. Asn. Statistical theory and methodology, particularly estimation. Publ: Co-auth, Sample size determination for tolerance limits, Technometrics, 5/68. Address: Dept. of Statistics, Oregon State University, Corvallis, Ore. 97331.

FAULKNER, DR. JOSEPH E(DWARD), b. Augusta, Ga, Mar. 15, 28; m. 52; c. 5. SOCIOLOGY. A.B, Emory, 49, B.D, 53, M.A, 56; Ph.D.(sociol), Pa. State, 62. Community surv. consult, Ga. Dept. Pub. Health, 56-57; instr. SOCIOL, Emory, 57-58; PA. STATE, 58-62, asst. prof, 62-68, ASSOC. PROF, 68- Sociol. Asn. Sociology of religion. Publ: Social influences upon human behavior, Center Continuing Lib. Ed, Pa. State, 67. Address: Dept. of Sociology, Pennsylvania State University, University Park, Pa. 16802.

FAULS, DR. JOHN THOMAS, b. DuBois, Pa, Aug. 13, 25; m. 53; c. 2. CLINICAL PSYCHOLOGY. A.B, Harvard, 50; fel, Fla. State, 54-55, Ph.D, 59. Intern clin. psychol, Springfield State Hosp, Sykesville, Md, 55-56; assoc. prof. psychol, Mary Washington Col, Virginia, 56-63; dir. psychol. serv, Va. Treatment Center, Richmond, 63-66; DIR. CHILD STUDY CENTER, RICHMOND PRFNL. INST, 66- Private practice, 59-; consult, Harvard Reading Progs, 59- Cert. in clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 66. U.S.A.F, 43-46, 51-53, Res, 53-, Capt. Psychol. Asn; Soc. Proj. Tech. & Personality Assessment. Psychological determinants of color perception; character structure of adaptive personalities and its manifestation in the reading process; Freudian defensive reactions of cancer patients and their concommitants in Selye's stress syndrome; effect of depression in cancer patients. Address: 8207 Fredonia Rd, Richmond, Va. 23227.

FAUMAN, PROF. S. JOSEPH, b. Toronto, Ont, July 4, 18; U.S. citizen; m. 48; c. 3. SOCIOLOGY. B.A, Michigan, 39, Conf. Jewish Rels. fel, 39-40, M.A, 40, univ. fel, 46-47, Ph.D, 48. Dir. res. & community rels, Jewish Community Coun, 47-58; PROF. SOCIOL, EASTERN MICHIGAN, 58- Part-time asst. prof, Wayne, 49-; mem. faculty exten, Michigan, 55- Mem, Mich. Cmn. Crime, Delinquency & Criminal Admin, 67- U.S.A.A.F, 42-46, Lt. Fel. Sociol. Asn; Asn. Intergroup Rels. Officers; Soc. Psychol. Study Social Issues; Conf. Jewish Soc. Studies. Race and intergroup relations; population and demography; cultural assimilation and change; urban sociology; culture & personality. Publ: Occupational selection among Detroit Jews & co-auth, Estimation of Jewish population by death rate method, Jewish Soc. Studies; Survey of human relations education in states and territories. Address: Dept. of Sociology, Eastern Michigan University, Ypsilanti, Mich. 48197.

FAUNCE, PROF. WILLIAM A(LDEN), b. Petoskey, Mich, May 2, 28; m. 54; c. 2. SOCIOLOGY. B.A, Mich. State, 50; M.A, Wayne State, 52, fel, 54-57, Ph.D.(sociol), 58. From instr. to PROF. SOCIOL, MICH. STATE, 57- Summer consult, U.S. Dept. Labor, 59 & 60, Nat. Inst. Labor Ed, 61. Med.C, U.S.A, 51-53. Sociol. Asn; Indust. Rels. Res. Asn. Industrial sociology; sociology of occupations; social psychology. Publ: Ed, Readings in industrial sociology, Appleton, 67; auth, Problems of industrial society, McGraw, 68; co-auth, Industrialization and community status structures, Am. Sociol. Rev, 6/66. Address: Dept. of Sociology, Michigan State University, East Lansing, Mich. 48823.

FAUSET, DR. CHARLES E(DWIN), b. Logansport, Ind, Jan. 29, 17; m. 43; c. 4. EDUCATIONAL PSYCHOLOGY. Ed.D, Indiana, 54. From asst. to prof. ed. & psychol, Ariz. State Col, 50-57; assoc. prof, Ind. State Teachers Col, 57-58; dir, div. teacher ed, NORTHERN ARIZONA, 58-65, DEAN COL. ED, 65- U.S.A.A.F, 42-45. Psychol. Asn. Psychological testing. Address: College of Education, Northern Arizona University, Flagstaff, Ariz. 86001.

FAUST, DR. JOHN ROSE, b. Salisbury, N.C, Sept. 25, 30; m. 56; c. 2. COMPARATIVE GOVERNMENT. B.A, Catawba Col, 52; Fulbright scholar, Australia, 53-54; M.A, North Carolina, 57, Ph.D, 60. Instr. polit. sci, North Carolina, 58-60; asst. prof. Southwestern Louisiana, 60-62; ASSOC. PROF. POLIT. SCI. & INT. POLIT, Ill. Wesleyan, 62-66; EASTERN ILLINOIS, 66- Sig.C, U.S.A, 54-56. Polit. Sci. Asn. Federal-state relations in Australia; European comparative government; international politics and organization. Publ: Co-auth, Mexican foreign policy in the United Nations, Southwest. Soc. Sci. Quart, 63. Address: Dept. of Political Science, Eastern Illinois University, Charleston, Ill. 61920.

FAUST, DR. MARGARET SILER, b. Tientsin, China, Feb. 22, 26; U.S. citizen; m. 50; c. 3. PSYCHOLOGY. B.A, Pomona Col, 48; M.A, Stanford, 50, Ph.D, 57. Asst. prof. psychol, Scripps Col, 58-59; child study, Vassar Col, 59-60; PSYCHOL, SCRIPPS COL, 60-65, ASSOC. PROF, 65- Psychol. Asn; Soc. Res. Child Develop. Developmental psychology; personality development; sensory deprivation; parent-child relationships. Publ: Co-auth, Father relations of war-born children; auth, Developmental maturity as a determinant in prestige of adolescent girls, Child Develop; What is a good program for economically disadvantaged children?, J. Instr. Improv, 12/65. Address: Dept. of Psychology, Scripps College, Claremont, Calif. 91711.

FAUST, PROF. MARTIN L(UTHER), b. Ambler, Pa, Oct. 26, 97; m. 27; c. 1. POLITICAL SCIENCE. A.B, Gettysburg Col, 19, A.M, 20; Ph.D, Chicago, 24. Asst. prof. POLIT. SCI, Pittsburgh, 24-29; prof, MISSOURI, 29-67, EMER. PROF, 67- Government financial administration; custody of state funds; five years under the new Missouri constitution. Address: Dept. of Political Science, University of Missouri, Columbia, Mo. 65201.

FAUST, RICHARD D(EANE), b. Ft. Wayne, Ind, July 17, 33; m. 53; c. 3. ANTHROPOLOGY. A.B, Indiana 56; M.A, 62; George Washington, 65. Archaeologist, Mound City Group Nat. Monument, NAT. PARK SERV, 61-65, div. archaeol, Wash, D.C, 65-66, CHIEF ARCHAEOL. RES, SOUTHEAST ARCHAEOL. CENTER, 66- Soc. Am. Archaeol. Archaeology of the Eastern United States particularly the woodland cultures; river basin salvage archaeology, especially in the southeastern United States. Address: Southeast Archaeological Center, Macon, Ga. 31208.

FAUST, DR. WILLIAM L(ANGDON), b. Dubuque, Iowa, Oct. 29, 25; m. 50; c. 3. PSYCHOLOGY. B.A, Chicago, 48; M.A, Stanford, 50, Ph.D.(psychol), 54. From asst. prof. to ASSOC. PROF. PSYCHOL, POMONA COL, 53-U.S.N.R, 44-47, Ens. Learning theory; child development; perception. Publ: Co-auth, Father relations of war-born children. Address: 1100 Harvard St, Claremont, Calif. 91711.

FAVA, DR. SYLVIA F(LEIS), b. New York, N.Y, June 1, 27; m. 51. SOCIOLOGY. B.A, Queens Col.(N.Y), 48; fel, Northwestern, 49-50, M.A, 50, Ph.D. (urban sociol), 56. Instr. SOCIOL, BROOKLYN COL, 51-62, asst. prof, 62-65, ASSOC. PROF, 65- Asst. ed, Sociol. Abstracts, Inc, 56-, v.pres, 63-67. Sociol. Asn; Soc. Study Social Probs; Pop. Asn; Rural Sociol. Soc. Suburban social patterns; comparative study of urbanization; local areas as urban observatories in New York metropolitan region. Publ: Co-ed, Sexual behavior in American society: an appraisal of the first two Kinsey reports; co-auth, Urban society, Crowell, 64; ed, Urbanism in comparative perspective, Crowell, 68. Address: 78-12 35th Ave, Jackson Heights, N.Y. 11372.

FAVOR, DR. HOMER ELI, b. Pittsburgh, Pa, July 23, 24; m. 47; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. B.B.A, Pittsburgh, 54, M.L, 54, Owens fel, 54-56, Ph.D, 60. Salesman, N.C. Mutual Life Ins. Co, 47-50; res. assoc, bur. bus. res, Univ. Pittsburgh, 54-56; asst. prof. ECON, MORGAN STATE COL, 56-62, assoc. prof, 62-68, PROF, 68-, DIR. URBAN STUDIES INST, 63- Mem, Dept. Employ. Security Cmn, Mayor's Housing Study Cmn, Cmn. Modernization Exec. Br. Md. Govt, Urban Coalition Cmn, personnel study cmt, Gov. Task Force Mod. Mgt, Higher Ed. Coun. Urban Affairs, Baltimore Urban League & Community Ment. Health Cmt, 63- U.S.A, 43-46. Econ. Asn. Publ: Are you going into business?; Effects of racial changes in occupancy patterns upon property values in Baltimore; Unemployment and the inner city: summary report, 66. Address: Urban Studies Institute, Morgan State College, Coldspring Lane & Hillen Rd, Baltimore, Md. 21212.

FAW, PROF. VOLNEY E, b. Yakima, Wash, Oct. 21, 12; m. 36; c. 3. PSYCHOLOGY. A.B, LaVerne Col, 35; M.A, Chicago, 40, Ph.D.(soc. psychol), 48. PROF. PSYCHOL. & CHMN. DEPT, LEWIS & CLARK COL, 46-, SUPVR. RES, SMITH FOUND, 53- Ford Found. fel, 51-52. Private practice, 43-56. Dipl, Am. Bd. Exam. Psychol. Hypnosis. Psychol. Asn. Psychological tests and measurements; counseling and psychotherapy. Publ: Free association word test; Personality characteristics of hypnotic subjects & Social and environmental perceptions of hypnotic subjects, J. Clin. & Exp. Hypnosis. Address: 01944 S.W. Palatine Hill Rd, Portland, Ore. 97219.

FAWL, DR. CLIFFORD LEROY, b. Topeka, Kans, Aug. 3, 30; m. 51; c. 4. PSYCHOLOGY. A.B, Michigan, 52; M.A, Kansas, 54, Soc. Sci. Res. Coun. fel, 58-59, Ph.D.(psychol), 60. From asst. to asst. instr. PSYCHOL, Kansas, 52-55, asst. city-town proj, 55-56, from asst. to asst. dir. to res. assoc, Midwest Psychol. Field Sta, 56-60; asst. prof, NEBR. WESLEYAN, 60-62, ASSOC. PROF, 62-, CHMN. DEPT, 60- Nat. Sci. Found. summer res. participation prog. col. teachers, Michigan, 63, acad. year exten. grant, Nebr. Wesleyan, 63-67. Psychol. Asn; Soc. Psychol. Study Social Issues. Physical and interperson perception; psychological ecology; personality development; stress and problem solving. Publ: Developmental analysis of the frequency and causal types of disturbance experienced by children, Merrill-Palmer Quart; Disturbances experienced by children in their natural habitats, In: Studies in the stream of behavior. Address: Dept. of Psychology, Nebraska Wesleyan University, Lincoln, Nebr. 68504.

FAY, DR. EDWARD A(LLEN), Math. Statist, see 11th ed, Phys. & Biol. Vols.

FAY, PROF. GEORGE E(MORY), b. St. Louis, Mo, Dec. 17, 27; m. 57, 65; c. 4. ANTHROPOLOGY. A.B, Missouri, 48; New Mexico, 48-49; M.A, Michigan, 51; Ph.D, Inter-Am. Univ. P.R, 65. Res. technician rare metals, Eagle-Picher Res. Labs, 51-55; ASST. PROF. sociol. & anthrop, South. State Col, 55-62; ANTHROP, Wis. State Oshkosh, 62-66; COLO. STATE COL, 66- Res. grants, Am. Philos. Soc, 53, 55, Kans. Acad. Sci, 53, Ex-

plorers Club N.Y, 57 & 63, Wenner-Gren Found. Anthrop. Res, 57, Bollingen Found, 58, Interam. Found, 60-63, Wis. State Univ. Bd. Regents, 63-65, Mus. Am. Indian, N.Y, 64. Ed, Katunob, J. Wis. Indians Res. Inst. & CSC Occasional Pub. in Anthrop. AAAS; Sociol. Asn; Anthrop. Asn; Soc. Archaeol; Archaeol. Inst; Ethnol. Soc; Asian Soc; Polynesian Soc; Royal Anthrop. Inst. Gt. Brit. & Ireland. Archaeological investigations in western Mexico; old world paleolithic cultures; new world ethnology and minority groups. Publ: Charters, constitutions and by-laws of the Indian tribes of North America, 15 vols, 67-69, An archaeological study of Sonora, Mexico, 10 vols, 67-69 & Police organization and judicial structure of the Indian tribes of North America, 10 vols, 69-70, Colo. State Col. Mus. Anthrop. Address: Dept. of Anthropology & Sociology, Colorado State College, Greeley, Colo. 80631.

FAYERWEATHER, PROF. JOHN, b. Pittsfield, Mass, Mar. 17, 22; m. 47; c. 1. INTERNATIONAL BUSINESS. B.S, Princeton, 43; M.B.A, Harvard, 48, D.C.S, 54. Asst. for. trade, Harvard, 48-49, instr. for. trade & gen. bus, 49-51, asst. prof. for. opers, 52-58; MANAGING ED, INT. EXEC, 58-; PROF. INT. BUS, N.Y. UNIV, 62-, adj. assoc. prof, 60-62. Assoc. prof, Columbia, 58-60. U.S.A, 43-46, Lt. Asn. for Ed. Int. Bus.(pres, 59-61, exec. secy, 66-); Mkt. Asn; Econ. Asn; Acad. Mgt; Soc. Int. Develop. Publ: Executive overseas; Management of international operations; International marketing, Prentice-Hall, 64. Address: 64 Ferndale Dr, Hasting-on-Hudson, N.Y. 10706.

FEA, PROF. HENRY ROBERT, b. Jan. 28, 14; m. 42. EDUCATIONAL PSYCHOLOGY. A.B, Saskatchewan, 42, B.Ed, 47, M.Ed, 48; Ph.D.(ed), California, 50. Asst. prof. ed, Sacramento State Col, 50-54; WASHINGTON (SEATTLE), 54-59, assoc. prof, 59-64, PROF. ED. PSYCHOL, 64- R.C.A.F, 42-45. Psychol. Asn. Psychology of reading and language arts. Publ: Validity of six readability formulas as measures of juvenile fiction, Ed. Sch. J; Interrelationships among materials read, written and spoken by pupils of the fifth and sixth grades, J. Ed. Psychol; co-auth, Chap. In: Research in teaching methods. Address: Dept. of Education, University of Washington, Seattle, Wash. 98105.

FEAGIN, DR. JOE R, b. San Angelo, Tex, May 6, 38; m. 59; c. 1. SOCIOLOGY. A.B, Baylor, 60; fel, Harvard, 64-65, Ph.D.(sociol), 66. Res. coordinator, Boston Housing Authority, 64-65; instr. SOCIOL, Massachusetts, 65-66; ASST. PROF, CALIFORNIA, RIVERSIDE, 66- Faculty res. grants, California, Riverside, 66-68. AAAS; Sociol. Asn. Urban sociology; racial and ethnic relations; sociology of religion. Publ: Prejudice and religious types, J. Sci. Study Relig, 10/64; Prejudice, orthodoxy, and the social situation, Soc. Forces, 9/65. Address: Dept. of Sociology, University of California, Riverside, Calif. 92502.

FEAMSTER, DR. J(OHN) HARRY, Psychol, see 10th ed, Soc. & Behav. Vols.

FEAR, RICHARD A(RTHUR), b. Gloversville, N.Y, Mar. 4, 09. INDUSTRIAL PSYCHOLOGY. B.S, Middlebury Col, 31; Ed.M, Boston, 40. Mem. staff, PSYCHOL. CORP, 41-56, dir. indust. div, 56, V.PRES, 57- Lectr, Columbia, 42-47; Newark Col. Eng, 42-43. Psychol. Asn. Employee selection and counseling; executive evaluation; attitude measurements. Publ: Evaluation interview. Address: Psychological Corp, 304 E. 45th St, New York, N.Y. 10017.

FEARON, PROF. HAROLD E(DWARD), b. Pittsburgh, Pa, Apr. 22, 31; m. 54; c. 2. BUSINESS ADMINISTRATION. B.S, Indiana, 53, M.B.A, 54; Ph.D. (bus. admin), Mich. State, 61. Instr. MGT, Mich. State, 56-61; asst. prof, ARIZONA STATE, 61-63, assoc. prof, 63-65, PROF, 65-, CHMN. DEPT, 66- Mgt. consult. to indust. & govt, 62- Contrib. ed, Utility Purchasing & Stores & Chem. Purchasing, 63-; ed, J. Purchasing, 65- U.S.A, 54-56, 1st Lt. Acad. Mgt. Purchasing research; cost analysis; materials management. Publ: Co-auth, Purchasing research in American industry, Am. Mgt. Asn, 63; auth, Arizona business conditions survey, Ariz. Bus. Bull, monthly, 62- Address: Dept. of Management, Arizona State University, Tempe, Ariz. 85281.

FEATHER, DR. BEN W(AYNE), Psychiat, Psychol, see 11th ed. Phys. & Biol. Vols. & Suppl. II.

FEAVER, DR. GEORGE A(RTHUR), b. Hamilton, Ont, May 12, 37; m. 63; c. 1. POLITICAL SCIENCE. B.A, British Columbia, 59; Leverhulme fel, Can. Coun. fel. & Ph.D.(polit. sci), London Sch. Econ, 62. Asst. prof. POLIT. SCI, Mt. Holyoke Col, 62-65; vis. lectr, London Sch. Econ, 65-66, res. assoc, Bentham Proj, Univ. Col, London, 66-67; vis. assoc. prof, Georgetown, 67-68; ASSOC. PROF, EMORY, 68- Vis. lectr, British Columbia, summer 63; Massachusetts, Amherst, 63-64. Am. Polit. Sci. Asn; Can. Polit. Sci. Asn; Brit. Asn. Am. Studies; Int. Polit. Sci. Asn. Political philosophy; theory and history of political thought; comparative government. Publ: From status to contract: a biography of Sir Henry Maine, 1822-88, Longmans Green, 58. Address: Dept. of Political Science, Emory University, Atlanta, Ga. 30322.

FECHER, PROF. CON JOHN, b. Ft. Recovery, Ohio, Feb. 15, 97; m. 19; c. 5. ECONOMICS, SOCIOLOGY. A.B, Miami (Ohio), 24; M.A, Catholic Univ, 25, Ph.D.(econ), 27; C.L.U, Col. Chartered Life Underwriters, 31. Life underwriter, N.Y. Life Ins. Co, 28-58, chartered life underwriter, 31-58, pres. agents adv. coun, 50-52; lectr. INS, DAYTON, 32-54, assoc. prof, 54-62, PROF, 62- Am. Cancer Soc. grant, 64- Statist. consult, Nat. Cmt. Med. Care of Religious, 59- Dayton Univ. alumni award, 60; Vatican II Coun. commemorative medal, 66. Qm.Corps, 18-19, Sgt. Econ. Asn; Statist. Asn. Health of religious men and women in America. Publ: Longevity of members of religious sisterhoods, Catholic Univ. Press, 27; co-auth, Manual on medical care for religious, St. Martin's Press, 66; Health of religious clergy, Rev. Relig. Address: Dept. of Economics, University of Dayton, Dayton, Ohio 45440.

FEDDER, DR. EDWIN H(ERSH), b. Baltimore, Md, Jan. 21, 29; m. 54. INTERNATIONAL RELATIONS. B.A, Maryland, 50; M.A, American Univ, 54, Ph.D.(int. rels), 57; summers, Hague Acad. Int. Law, 61, Oak Ridge Inst. Nuclear Studies, 63. Teacher, pub. schs, Md, 54-56; instr. polit. sci, Pittsburgh, 56-59; asst. prof. polit, Hollins Col, 59-63, assoc. prof. polit. sci, 63-65, chmn. dept. polit, 64-65; dir. West. Alliance studies proj, Mershon Center Ed. in Nat. Security, Ohio State, 65-67, vis. assoc. prof, 66-67; ASSOC. PROF. POLIT. SCI. & DIR, CENTER INT. STUDIES, MISSOURI, ST. LOUIS, 67- Vis. lectr, West Virginia, summer 57, Danforth faculty grants, 60-61, vis. lectr, Illinois, spring & summer 64; fel, Mershon Soc. Sci. Prog, Ohio State, 65-66. Polit. Sci. Asn; Int. Studies Asn. Theory and process of international relations; alliance and coalition theory; international political integration; American and comparative foreign policy; decision making; simulation of international processes. Publ: Beyond hegemony: U.S. and the future of NATO, Mershon Center, Ohio State Univ, 67; Theory and process of alliance, (in prep); The concept of alliance, Int. Studies Quart, 3/68. Address: Dept. of Political Science, University of Missouri at St. Louis, St. Louis, Mo. 63121.

FEDDER, PROF. RUTH MARIE, b. Cape Girardeau, Mo, Sept. 11, 07. PSYCHOLOGY. A.B, Illinois, 29; M.A, Columbia, 36, Ed.D, 38. Dir, YWCA, Pa, 29-31, Mass, 31-35, N.J, 35-37; guid. counsr. & asst. prin, jr. high sch, Pa, 38-41; psychologist, supvr. spec. ed. & asst. supt, pub. schs. Bucks County, 41-63; coordinator progs. except. children, Dept. Pub. Instr, Harrisburg, 63-64; PROF. PSYCHOL. & SPEC. ED, NORTHERN ARIZONA, 64- Lectr, N.Y. Univ, 38-48; specialist, civil info. & ed. div, gen. hqs, U.S. Dept. Army, Japan, 49; summers, lectr, Columbia, 39-44, 51-53, 59-61. Psychol. Asn; Personnel & Guid. Asn. Child development; psychology of adolescence; interviewing techniques; group dynamics. Publ: You, the person you want to be, 60 & A girl grows up, rev. ed, 68, McGraw; Guidance through club activities, Teachers Col. Press, 67. Address: Box 783, Sedona, Ariz. 86336.

FEDDERSEN, PROF. W(ILLIAM) E(LTON), Exp. Psychol, Sociol, see 10th ed, Phys. & Biol. Vols. Latest known address: 1435 Pirates Cove, Houston, Tex. 77058.

FEDER, DEAN DANIEL D, b. Philadelphia, Pa, Apr. 12, 10; m. 34; c. 1. PSYCHOLOGY. A.B. & M.A, Denver, 31; Colorado, 38; Ph.D.(psychol), Iowa, 34. Asst, Iowa, 32-34, res. assoc, 34-35, assoc. psychol. & personnel, 35-38; asst. prof. psychol. & asst. dir. personnel bur, Illinois, 38-42; exec. officer, & supvr, State Civil Serv. Cmn, Ill, 42-46; prof. psychol. & dean students, Denver, 46-61; PROF. PSYCHOL, SAN FRANCISCO STATE COL, 61-, DEAN ACAD. PLANNING, 64-, chmn. div. psychol, 61-64. Consult, Vet. Admin. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Personnel & Guid. Asn.(pres, 60-61); Ed. Res. Asn. Prediction of success of student personnel; test research; reading comprehension; self-concept measurement, especially growth and change; applications in counseling. Publ: Comprehension maturity tests: a new technique in mental measurement, J. Ed. Psychol; Factors which affect achievement and its prediction at the college level, J. Am. Asn. Col. Registr. Address: Division of Psychology, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

FEDER, DR. ERNEST, b. Berlin, Germany, Aug. 23, 13. AGRICULTURAL ECONOMICS. London Sch. Econ, 36; Ph.D, Geneva, 38; M.S, California, 48. Legal adv, S.P.A. Ins. Co, Geneva, 38-39; owner-operator dairy farm, Ill, 40-46; asst. prof, Ariz. State Teachers Col, 49; assoc. prof. agr. econ, S.Dak. State Col, 49-53; assoc. prof, Nebraska, 53-61; agr. econ. adv, Agency Int. Develop, Bogota, Colombia, 61-62; chief land tenure res, C.I.D.A, Brazil, 62-63; Orgn. Am. States Agr. Prog, Wash, D.C, 63-64; SR. ECONOMIST, ECON. CMN. LATIN AM, UN, 64- Marketing; credit; agricultural law; land reform; agricultural development. Publ: Land tenure conditions and socio-economic development of the agricultural sector, in Brazil, Pan Am. Union, D.C.(in English & Portuguese), 66; Land reform under the Alliance for Progress, J. Farm Econ, 8/65, Trimestre Economico, Mexico, 65; Land reform: a twentieth century world issue, Am. Latina, Brazil, 66. Address: Economic Commission of Latin America, United Nations, c/o CIDA, 1725 I St. N.W, Washington, D.C. 20006.

FEDIO, DR. PAUL, b. Omrod, Pa, June 30, 34; m. 59; c. 3. PSYCHOLOGY. B.A, St. Basil's Col, 56; Ph.D.(psychol), Catholic Univ, 64. Clin. psychologist, Bur. Maternal & Child Health, D.C, 60-64; RES. PSYCHOLOGIST, SURGICAL NEUROL. DIV, NAT. INST. NEUROL. DISEASES & BLINDNESS, 64- AAAS; Psychol. Asn. Neuropsychology; behavioral effects of intracranial stimulation; electrographic correlates of behavior. Publ: Reaction time and EEG activation in normal and schizophrenic subjects, Electroencephalog. Clin. Neurophysiol, 61; co-auth, Anomia from pulvinar and subcortical parietal stimulation, Brain, 68 & Short term memory and stimulation in the thalamus and the parietal and temporal white substance in man, J. Neurosurg, 68. Address: Clinical Center, Room 2D-13, National Institutes of Health, Bethesda, Md. 20014.

FEDYSHYN, DR. OLEH S, b. Hlubichok, Ukraine, Jan. 1, 28; U.S. citizen; m. 52; c. 2. POLITICAL SCIENCE. B.A, Brooklyn Col, 53; cert, Russian Inst. & M.A, Columbia, 55, Ph.D.(polit. sci), 62. Instr. for. lang, Mich. State, 56; polit. sci, South Carolina, 57-58; ASST. PROF. soviet studies & hist, St. John's (N.Y.), 59-63; polit. sci, Rice, 63-67; SOVIET POLIT. & INT. RELS, RICHMOND COL, CITY UNIV. NEW YORK, 67- Ford fel. for. area prog, 57-58; res. assoc, Soc. Sci. Found, Univ. Denver, 66. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Soviet-German relations; soviet nationalism and assimilation; problems of international communism. Publ: Soviet retreat in Sinkiang?, Am. Slavic Rev, 4/57; Soviet colonialism, Biblos, Munich, Germany, 63; Khrushchev's leap forward, Southwest Soc. Sci. Quart, 6/67. Address: 95 Arlo Rd, Apt. 1-A, Staten Island, N.Y. 10301.

FEENEY, DR. GEORGE J(OSEPH), b. Indianapolis, Ind, Dec. 16, 26; m. 50. ECONOMIC ANALYSIS. A.B, Harvard, 50, M.B.A, 52; Ph.D.(indust. eng), Columbia, 59. Opers. res. specialist, Otis Elevator Co, 52-54; mgr. opers. res. & electronic data processing res, Stanford Res. Inst, 54-58; mgr. mkt. systs. res, Gen. Elec. Co, 58-62; prof. mgt. sci. & dir, mgt. sci. prog, N.Y. Univ, 62-63; mathematician, Rand Corp, 63-64; MGR, CORP. STRATEGY OPER, GEN. ELEC. CO, 64- Vis. prof, Yale, 61-62. U.S.A, 44-46. Fel. AAAS; Inst. Mgt. Sci; Opers. Res. Soc; Economet. Soc; Math. Soc; Asn. Comput. Mach. Operations research; human decision processes; behavior of man-machine decision systems; planning, economic analysis, information systems; mathematical statistics. Address: General Electric Co, 570 Lexington Ave, New York, N.Y. 10022.

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FEFFER, PROF. MELVIN H(AROLD), b. Springfield, Mass, Oct. 20, 23; m. 46; c. 2. PSYCHOLOGY. B.S, Massachusetts, 48; U.S. Pub. Health Serv. fel, Ill. Neuropsychiat. Inst, 50-51; Ph.D, Chicago, 54. Asst. psychol, Massachusetts, 47-48; Chicago, 49-50, psychometrist, counseling center, 51-52; staff psychologist, Worcester State Hosp, Mass, 52-56, acting supvr. intern training, 56-57, res. psychologist, 57-60; assoc. prof. PSYCHOL, YESHIVA, 60-65, PROF, 65-, DIR. CLIN. TRAINING PROG, 60- Lectr, Clark, 56-58, res. assoc, inst. human develop, 59-60, consult, psychol. clin, 58-60. Consult, Wercester State Hosp, 60- U.S.A.A.F, 43-46, Sgt. Psychol. Asn. Cognitive approach to role relationships and symptomatic behavior. Publ: Co-auth, Cognitive aspects of role-taking behavior in children, J. Personality & Decentering implications of social interaction, J. Personality & Soc. Psychol, 4: 415-423; auth, Symptom expression as a form of primitive decentering, Psychol. Rev, 67. Address: Graduate Center, Yeshiva University, 55 Fifth Ave, New York, N.Y. 10003.

FEFFERMAN, DR. ARTHUR STANLEY, b. New York, N.Y, Apr. 18, 18; m. 46; c. 2. ECONOMICS. B.A, Brooklyn Col, 39; M.A, Columbia, 41; Ph.D, New Sch. Soc. Res, 50. Fiscal economist, U.S. Dept. Treas, 45-63; DIR. ECON. ANAL, AM. LIFE CONVENTION, 63- Econ. Asn. Publ: Tax treatment of family income. Publ: The 1964 Revenue Act—an appraisal, J. Am. Soc. Chartered Life Underwriters, fall 64; Deferred profit-sharing plans, In: Pensions and profit sharing, Bur. Nat. Affairs, 3rd ed, 64. Address: 9006 Linton St, Silver Spring, Md. 20901.

FEHR, DR. FRED(RICK) S, b. Wauwatosa, Wis, Mar. 26, 35; m. 58; c. 2. PSYCHOPHYSIOLOGY. B.S, Wisconsin, 60; M.A, Washington (St. Louis), 62, Ph.D, 66. Res. fel, Washington (St. Louis), 65-66; RES. ASST. PROF. PSYCHOL, CHILDREN'S RES. CENTER, ILLINOIS, URBANA, 66- U.S.A, 54-56. Soc. Psychophysiol. Res; Psychol. Asn. Clinical psychology; child development. Address: 1724 Westhaven Dr, Champaign, Ill. 61820.

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FEI, DR. EDWARD C, b. Peking, China, Oct. 22, 19; m. 43; c. 3. ECONOMIC DEVELOPMENT. B.A, St. John's Univ, China, 41; M.A, Washington (Seattle), 48, Ph.D, 55. Assoc. prof. econ, American Univ. Beirut, 51-57; adv. Ford Found-Harvard Planning Cmn, Pakistan Govt, 57-59; assoc. prof. econ, Swarthmore Col, 59-60; prof, Wisconsin, Madison, 60-62; chief res. div, AGENCY INT. DEVELOP, 62-64, assoc. dir, Attaché, Monrovia, 64-66, Agency, D.C, 66, DEP. CHIEF U.S. REP. DEVELOP. ASSISTANCE CMN, ATTACHÉ, PARIS, ORGN. ECON. COOP. & DEVELOP, 66- Lectr, Washington (Seattle), 54-55. Econ. adv, dir. statist, Lebanese Govt, 52. Econ. consult, Int. Coop. Admin, Lebanon, 54, D.C, 61; res. consult, U.S. Opers. Mission, Turkey, 60. Econ. Asn. International economics; economic development; organization and administration of national planning; development of human resources. Publ: Balance of payments of Lebanon; Economic survey of the Bekaa Valley, Lebanon; Initial program of science: technology in Latin America. Address: U.S. Organization for Economic Cooperation & Development, c/o American Embassy, APO New York 09777.

FEIERABEND, PROF IVO K(AREL), b. Prague, Czech, Mar. 2, 27; U.S. citizen; m. 53; c. 3. POLITICAL SCIENCE. B.A, California, Berkeley, 50, M.A, 53; Ph.D.(polit. sci), Yale, 60. Instr. POLIT. SCI, Washington (St. Louis), 58-59, vis. prof, 66-67; asst. prof, SAN DIEGO STATE COL, 59-62, assoc. prof, 62-66, PROF, 67- Nat. Sci. Found. res. grant, 66-68. Mem, Czech. Soc. Arts & Sci. Co-recipient, socio-psychol. prize, AAAS, 66. U.S.A, 55-56. Polit. Sci. Asn. Address: Dept. of Political Science, San Diego State College, San Diego, Calif. 92115.

FEIERABEND, DR. ROSALIND LORWIN, b. New York, N.Y, May 27, 26; m. 53; c. 3. PSYCHOLOGY. B.A, Swarthmore Col, 47; M.A, California, Berkeley, 52; Ph.D.(soc. psychol), Yale, 55. Res. assoc, commun. res. proj, Yale, 56-58; prin. investr, coop. res. proj, Washington Univ. & U.S. Off. Ed, 59; asst. prof. PSYCHOL, California Western, 60-63; lectr, SAN DIEGO STATE COL, 63-65, asst. prof, 65-68, ASSOC. PROF, 68- Vis. res. psychologist, Washington Univ, 66-67; Nat. Sci. Found. res. grant, 66-68. AAAS (co-recipient, prize, 66); Psychol. Asn; Acad. Polit. & Soc. Sci; Soc. Exp. Soc. Psychol; Soc. Psychol. Study Social Issues; Int. Coun. Psychol. Cross-national research on the systemic correlates of political aggression; processes of attitude change and persuasive communications. Publ: Co-auth, The order of presentation in persuasion, Yale, 57 & paperback ed, 66, Aggressive behaviors within polities, 1948-1962: a cross-national study, J. Conflict Resolution, 9/66 & Systemic conditions of political aggression: an application of frustration-aggression theory, AAAS, 66. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

FEIERSTEIN, DR. BERNARD, b. New York, N.Y, Jan. 11, 29; m. 51; c. 2. EDUCATIONAL & CLINICAL PSYCHOLOGY. B.S, City Col. New York, 51, M.A, 52; Ed.D, Cornell, 61. Clin. psychologist intern, Greystone Park State Hosp, Morristown, N.Y, 54-55; sch. psychologist, pub. schs, N.J, 55-57; asst, univ. testing & serv. bur, Cornell, 57-58; PSYCHOLOGIST, Broome County Bd. Coop. Ed. Servs, N.Y, 58-61; ITHACA CITY SCH. DIST, 61- Prof. ed, Cornell, 67- Sr. clin. psychologist, Binghamton State Hosp, N.Y, 61-62; counseling psychologist, Harpur Col, 63-65. Med.C, U.S.A, 52-54. Psychol. Asn. Definitions and perceptions of emotionally handicapped behavior. Address: 110 Winston Dr, Ithaca, N.Y. 14850.

FEIFEL, DR. HERMAN, b. New York, N.Y, Nov. 4, 16. PSYCHOLOGY. B.A, City Col. New York, 35; M.A, Columbia, 39, Ph.D.(psychol), 48. Res. asst, Columbia, 40-42; res. psychologist, personnel res. sect, Adj. Gen. Off, D.C, 46-49; instr. psychol, Brooklyn Col, 48-49; supvry. clin. psychologist, Winter Vet. Admin. Hosp, Topeka, Kans, 50-54; res. & clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Los Angeles, 54-59; CHIEF PSYCHOLOGIST, VET. ADMIN. OUTPATIENT CLIN, 60-66, 67- Lectr, American Univ, 49-50; instr, Menninger Sch. Psychiat, Kans, 51-54; lectr, California, Los Angeles, 57-58; asst. clin. prof, sch. med, Southern California, 58-61, assoc. clin. prof, 61-66, clin. prof, 66-, vis. prof, univ, 66-67. Nat. Inst. Ment. Health res. grant, 59-62, vis. sr. res. scientist, res. center ment. health, N.Y. Univ, 60-61. U.S.A.A.F, 42-44; U.S.A, 44-46, Capt. Fel. AAAS; fel. Psychol. Asn; fel. Acad. Relig. & Ment. Health; fel. Gerontol. Soc. Personality theory and assessment, maturity and old age; psychotherapy; religion and mental health; attitudes toward death. Publ: The meaning of death, McGraw, 65; Death: relevant variable in psychology, Existential Psychol; The function of attitudes toward death, In: Death and dying: attitudes of patient and doctor, Group Adv. Psychiat, 65. Address: Veterans Administration Outpatient Clinic, 1031 S. Broadway, Los Angeles, Calif. 90015.

FEIGENBAUM, DR. A(RMAND) V(ALLIN), b. U.S, Apr. 6, 20. INDUSTRIAL ECONOMICS, MANAGEMENT ENGINEERING. B.S, Union Col, 42; M.S, Mass. Inst. Tech, 48, Ph.D, 51. Prog. mgr, aircraft nuclear propulsion dept, Gen. Elec. Co, 52-53, mgr. qual. control & cost reduction, 53-56, qual. control, 56-58, mfg. opers. & qual. control, 58-68; PRES. & CHIEF EXEC. OFFICER, GEN. SYSTS. CO, 68- Lectr, Mass. Inst. Tech; Cincinnati; Union Col. Consult, adv. group, U.S. Army, 66- Chmn. indust. admin. coun, Union Col, 62-; qual. assurance study, Army Materiel Command, 63; Int. Asn. Qual, 66- Nat. Security Indust. Asn. award of merit, 64. Fel. AAAS; Econ. Asn; Opers. Res. Soc. Am; Soc. Mech. Eng; fel. Soc. Qual. Control (pres, 61-63, Edwards medal, 66); Inst. Elec. & Electronics Eng; Inst. Mgt. Sci; fel. Acad. Polit. & Soc. Sci; Eng. Joint Coun; Nat. Soc. Prfnl. Eng; Coun. Int. Progress Mgt. Organization; enterprise programming. Publ: Management programming; The organization process; Total quality control: engineering and management. Address: 123 Ann Dr, Pittsfield, Mass. 01202.

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FEIL, DR. MADELEINE, Psychol, see 10th ed, Soc. & Behav. Vols.

FEIN, DR. LEAH GOLD, b. Russia, Dec. 10, 10; nat; m. 44; c. 1. PSYCHOLOGY. B.S, Albertus Magnus Col, 39; M.A, Yale, 42, Talbot fel, 43-44, Ph.D. (ed. psychol), 44. Instr. psychol. & dir. testing serv, Carleton Col, 44-46; asst. prof. psychol, Jr. Col. Conn, 46-47; sr. psychologist, Child Guid. Clin, Seattle, 48, clin. psychologist, 48-52; lectr, Bridgeport, 52-64; dir, Cerebral Palsy Clin, Waterbury, Conn, 64-65; assoc. prof. sociol. & psychol, Quinnipiac Col, 65-66; clin. consult, New York Hosp-Cornell Med. Center, 66-67; dir. psychol. dept, Psychiat. Treatment Center, 67-68; SUPVR. & TEST SPECIALIST, ROOSEVELT HOSP, NEW YORK, 68- Res. assoc, High Point Hosp, 52-56; psychotherapist, Norwalk Psychiat. Clin, 54-64. Lectr. tour Mediterranean & West. European countries, sponsored by Int. Coun. Psychologists & Am. Soc. Group Psychother, winter 67. Consult, Conn. Alcoholics Cmn, 52-59; Jewish Coun, Bridgeport, 52-55; Child Ed. Found, New York, 54-58; Roosevelt Sch, 55; res. consult, Norwalk Hosp. Nursing Sch, 61- Private consult, 54- V.pres, Int. Coun. Psychol, 61-62. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. Psychol. Asn; Group Psychother. Asn; fel. Acad. Psychother; hon. fel. Soc. Proj. Tech. & Personality Assessment; Nat. Asn. Gifted Children (v.pres). Individual and group psychotherapy; non-academic personality variables contributing to success in nursing school; milieu structural impact on dependency and self image attitudes as measured by Fein dependency and self image scales. Publ: Three dimensional personality test: reliability, validity and clinical implications, Int. Univs, 60; Psychodrama: a treatment of choice, Group Psychother, 12/67; Non-academic personality variables and success at school, Int. Res. Newsletter, Post-Grad. Center Ment. Health, N.Y, 4/68. Address: 445 E. 80th St, New York, N.Y. 10021.

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FEIN, DR. RASHI, b. Brooklyn, N.Y, Feb. 6, 26; m. 49; c. 4. ECONOMICS. B.A, Hopkins, 48, fel, 51, Ph.D, 56. Instr. ECON, McCoy Col, Hopkins, 50-51; lectr, North Carolina, 52-56, asst. prof, 56-58, assoc. prof, 58-61; SR. STAFF, Coun. Econ. Adv, 61-63; BROOKINGS INST, 63- Summer vis. lectr, Hopkins, 55. Mem. staff, Presidents Cmn. Health Needs of Nation, 52; task force dir, Joint Cmn. Ment. Illness & Health, 57-58; statistician, bur. census, U.S. Dept. Commerce, 58-59, mem. exec. reserve, 59- U.S.N, 44-46. Econ. Asn. Economics; value of human resources; medical and educational economics; manpower retraining. Publ: Economics of mental illness, Basic Books, 58; The doctor shortage: and economic diagnosis, Brookings, 67. Address: Brookings Institution, 1775 Massachusetts Ave. N.W, Washington, D.C. 20036

FEINBERG, PROF. M(ORTIMER) R(OBERT), b. New York, N.Y, Aug. 26, 22; m. 47; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 44; fel, Indiana, 44-45, M.A, 45; Ph.D, N.Y. Univ, 50. Instr. PSYCHOL, N.Y. Univ, 45-50; Brooklyn Col, 50-51; from asst. prof. to assoc. prof, CITY COL. NEW YORK, 51-65, PROF, 65- Lectr, Columbia, 51-52; proj. dir, Richardson Bellows Henry & Co, 51-55; pres, BFS, Psychol. Assocs, 60- Indust. psychol. ed, Res. Inst. Am, 55-59. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. AAAS; fel. Psychol. Asn. Industrial psychology; leadership and sociometric measurement; personnel training. Publ: Development of people in industry; Psychology contributions to labor management relations; Effective psychology for managers, Prentice-Hall, 65. Address: Furnace Dock Rd, Peekskill, N.Y. 10566.

FEINGOLD, DR. EUGENE N(EIL), b. Brooklyn, N.Y, Mar. 21, 31; m. 60. POLITICAL SCIENCE. A.B, Cornell, 52; Syracuse, 52-53; DuBois fel. & A.M, Princeton, 58, Procter fel. & Ph.D.(polit. sci), 60. Res. fel. govt. studies, Brookings Instn, 59-60; instr. polit. sci, MICHIGAN, 60-63, asst. prof, 63-66, ASSOC. PROF. MED. CARE ORGN, 66- Walter E. Meyer Res. Inst. Law res. grant, 64- Consult, White House Conf, to Fulfill These Rights, 66; Off. Econ. Opportunity, 67. U.S.A, 53-55. Polit. Sci. Asn; Pub. Health Asn. American government; politics and policy formation; civil rights and civil liberties; government relations with business and other private groups; medical care organization and financing; federal tax policy. Publ: Federal taxes: a handbook on problems and solutions; Medicare: politics and policy, Chandler Pub, 66; co-auth, The obstacles to fair housing, Am. Federationist, 6/67. Address: University of Michigan School of Public Health, Ann Arbor, Mich. 48104.

FEINGOLD, DR. S. NORMAN, b. Worcester, Mass, Feb. 2, 14; m. 47; c. 4. PSYCHOLOGY. A.B, Indiana, 37; A.M, Clark, 40; Ed.D, Boston, 48. Spec. lectr, sch. ed, Boston, 52-58, instr. voc. planning & adjust, col. bus. admin, 53-58; NAT. DIR, B'NAI B'RITH VOC. SERV, 58- Exec. dir, Jewish Voc. Serv. Greater Boston, 46-58; Jewish Voc. Serv. Adjust. Center, 57-58; dir. ed. & voc. workshop, United Cerebral Palsy Greater Boston, Inc, 54-58. Consult, 49-58; exec. adv, Rehab. Serv. Boston, Mass, 54-58; consult, Soc. Sec. Admin. & Voc. Rehab. Admin, 66- Ed, Counsr's. Info. Serv. U.S.A, 43-46. AAAS; fel. Psychol. Asn; fel. Gerontol. Soc; Rehab. Asn; Personnel & Guid. Asn; Voc. Guid. Asn.(pres. elect, 67-68). Scholarship selection, administration and research; aged; handicapped; career planning for normal youth. Publ: How to get that part time job; co-auth, Finding part time jobs, Sci. Res. Assocs, 62; auth, The job finder—it pays to advertise, Bellman, 66. Address: 1640 Rhode Island Ave. N.W, Washington, D.C. 20036.

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FEINSOT, DR. AARON, b. Elizabeth, N.J, Nov. 25, 23; m. 57; c. 3. SOCIOLOGY. A.B, Union Col, 46; M.A, N.Y. Univ, 51, Ph.D.(sociol), 65. DIR, CROWELL COLLIER INST, 66- Soc. Appl. Anthrop; Sociol. Asn. Group process; management; inter-cultural communication. Address: 29 Washington Square, New York, N.Y. 10011.

FEINTUCH, DR. ALFRED, b. New York, N.Y, July 31, 15; m. 38; c. 1. PSYCHOLOGY. B.S, Brooklyn Col, 35; M.A, N.Y. Univ, 37, Ph.D.(psychol), 54. Guid. counsr, New York Bd. Ed, 35-38; employ. counsr, State Employ. Serv, N.Y. 38-39; child labor consult, U.S. Childrens Bur, 39-42; asst. head voc. training, apprentice & handicapped worker unit, wages & hours div, U.S. Dept. Labor, 42-47; supvr. & training consult, United Serv. for New Americans, 47-50; EXEC. DIR, JEWISH VOC. SERV, MONTREAL, 50- Psychol. Asn; Personnel & Guid. Asn. Vocational guidance; sheltered workshops. Publ: Improving the employability and attitudes of difficult-to-place persons, Psychol. Monogr. Address: 2000 Norway Rd, Montreal 9, Que, Can.

FEIRSTEIN, DR. ALAN ROY, b. New York, N.Y, May 20, 39; m. 67. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 60; Ph.D.(psychol), Yale, 64. Fel, West Haven Vet. Admin. Hosp, 64-65; res. psychologist, YALE, 65-66, ASST. PROF. PSYCHIAT. & PSYCHOL, 66- Psychotherapy outcome; psychological testing; personality correlates of perception. Publ: Co-auth, Learning to resist shock and fear, J. Comp. & Physiol Psychol, 63; auth, Personality correlates of tolerance for unrealistic experiences, J. Consult. Psychol, 67. Address: Dept. of Psychology, Yale University, 1303A Yale Station, New Haven, Conn. 06520.

FEIST, DR. JESS J, b. Spearville, Kans, Aug. 30, 35; m. 57; c. 5. PSYCHOLOGY. B.A, St. Mary of the Plains Col, 57; M.Ed, Wichita State, 59; Ed.D. (counseling), Kansas, 64. Teacher, parochial & pub. schs, Kans, 57-61; asst. soc. sci, Kansas, 61-64; asst. prof. PSYCHOL, McNEESE STATE COL, 64-67, ASSOC. PROF, 67- Personnel & Guid. Asn. Interests measurement and counseling relationships. Publ: Predictive valve of SVIB patterns, J. Appl. Psychol, 12/66; Neurotic-symbiotic counseling relationships, Personnel & Guid. J, 6/68. Address: Dept. of Psychology, McNeese State College, Lake Charles, La. 70601.

FEIT, DR. EWALD, b. Vienna, Austria, Nov. 15, 24; m. 52; c. 2. POLITICAL SCIENCE. A.B, Witwatersrand, 44; A.M, South Africa, 49; Ph.D.(polit. sci), Michigan, 65. ASST. PROF. GOVT, MASSACHUSETTS, 65- Fel, Mershon Inst. Ed. Nat. Security, 67-68. Fel. African Studies Asn; Polit. Sci. Asn; Soc. Gen. Syst. Res. Comparative government; African politics, especially military questions; South African political problems; insurgency and revolution. Publ: South Africa: the dynamics of the African National Congress, Oxford Univ, 62; African opposition in South Africa: the failure of passive resistance, Hoover Inst, 67. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

FEIWEL, PROF. GEORGE RICHARD, b. Cracow, Poland, July 4, 29; Can. citizen; m. 57. ECONOMICS. B.COM, McGill, 55, L.I.A, 57, M.A, 61, Ph.D. (econ), 62. Sr. auditor, S.S. Feiner & Co, Can, Chartered Accountants, 55-57, chartered acct, 57-61; teaching asst. bus, California, Berkeley, 61-62; assoc. prof. commerce & econ, Alberta, 62-66; PROF. ECON, TENNESSEE, 66- Visitor to faculty, Cambridge, spring 65; assoc, Russian Res. Center, Harvard, summers 66 & 67. Consult, Can. Coun, 66- Econ. Asn; Royal Econ. Soc; Asn. Comp. Econ; Asn. Study Soviet-type Econ. The role of the market in economic development; plan and market; theory and performance. Publ: The economics of a socialist enterprise, 65 & Soviet quest for economic efficiency, Praeger, 67; New currents in soviet type economies, Int. Textbook, 68. Address: Dept. of Economics, University of Tennessee, Knoxville, Tenn. 37916.

FEJOS, DR. PAUL, Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 63.

FELD, DR. RICHARD DENNIS, b. New York, N.Y, Nov. 21, 41; m. 64. POLITICAL SCIENCE. B.A, Hunter Col, 63; Nat. Defense Ed. Act fel, Syracuse, 63-66, M.A, 65, Ford Found. grant & Ph.D.(polit. sci), 67. Instr. POLIT. SCI, Eagleton Inst, Rutgers, 67, asst. prof, 67-68, lectr, univ. col, 67-68; ASST. PROF, HOUSTON, 68- Polit. Sci. Asn; Soc. Pub. Admin. Metropolitan affairs; state-local government; political behavior; American government; economic policy. Publ: Medicaid: problems and prospects, Eagleton Inst. Polit, 2/68. Address: 944-B Village Dr. W, North Brunswick, N.J. 08902.

FELD, DR. SHEILA CLAIRE, b. New York, N.Y, Sept. 5, 32. PSYCHOLOGY. A.B, Brooklyn Col, 53; fel, Michigan, 54-56, A.M, 55, Ph.D, 60. Asst. psychol, Michigan, 53-54, 56-57, asst. study dir, surv. res. center, 57-59, study dir, 59-60; res. asst. psychol, Yale, 60-62; RES. PSYCHOLOGIST, MENT. HEALTH STUDY CENTER, NAT. INST. MENT. HEALTH, 62- Consult. psychologist. Psychol. Asn; Soc. Psychol. Study Social Issues; Soc. Res. Child Develop. Development and ramifications of achievement strivings and anxiety; measurement of human social motives; phenomenology of mental health. Publ: Co-auth, Americans view their mental health, Basic Books, 60; auth, Longitudinal study of the origins of achievement strivings, J. Personality & Soc. Psychol, 67; co-auth, Further evidence on the stability of the factor structure of the test anxiety scale for children, J. Consult. Psychol, 67. Address: Mental Health Study Center, National Institute of Mental Health, 2340 University Blvd. E, Adelphi, Md. 20783.

FELD, PROF. WERNER J(OACHIM), b. Duesseldorf, Germany, Apr. 10, 10; U.S. citizen; m. 40. POLITICAL SCIENCE. Referendar exam, Berlin 33; Ph.D. (polit. sci), Tulane, 62. Asst. prof. polit. sci, N.Ga. Col, 61-62; PROF. polit. sci. & CHMN. DEPT, Moorhead State Col, 62-65; GOVT, LA. STATE, 65- Consult, bur. intel. & res, U.S. Dept. State, 66-; adv. to U.S. Asst. Secy. State European Affairs, 67- U.S.A, 43-45, 51-53, Res, 46-51, 51-54, Lt. Col. Polit. Sci. Asn; Int. Studies Asn. Legal and external developments of the European Common Market; politics of integration; problems of the Atlantic partnership. Publ: Reunification and West German-Soviet relations, 63 & The court of the European communities: new dimension in international adjudication, 64, Nijhoff; The European Common Market and the world, Prentice-Hall, 67. Address: Dept. of Government, Louisiana State University, New Orleans, La. 70122.

FELDHUSEN, PROF. JOHN F(REDERICK), b. Waukesha, Wis, May 5, 26; m. 54; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Wisconsin, 49, M.S, 55, Ph.D.(ed. psychol), 58. Teacher, Northwest. Acad, Wis, 51-54; res. assoc. ed, Wisconsin, 57-58, instr, 58-59; assoc. prof. psychol, Wis. State Col. Eau Claire, 59-62; ED. PSYCHOL, PURDUE, 62-65, PROF. & CHMN. SECT, 65-, DIR. GRAD. & UNDERGRAD. RES. TRAINING PROGS, 67- U.S.A, 44. Psychol. Asn; Soc. Res. Child Develop; Ed. Res. Asn; Coun. Measurement in Ed. Computer-assisted instruction; creativity; behavior problems; testing, statistics, research design. Publ: Co-auth, Anxiety, divergent thinking and achievement, J. Ed. Psychol, 65, Sentence completion response and classroom social behavior, Ther. Personnel & Guid. J, 66 & Behavior, intelligence and achievement, J. Exp. Ed, 67. Address: Dept. of Education & Psychology, Purdue University, Lafayette, Ind. 47906.

FELDMAN, PROF. ALAN S(IDNEY), Audiol, Speech Path, see 11th ed, Phys. & Biol. Vols.

FELDMAN, PROF. ARNOLD S(ANFORD), b. Hartford, Conn, Mar. 1, 26; m. 49; c. 2. SOCIOLOGY. A.B, Wayne State, 49; Ph.D, Northwestern, 56. Asst. proj. dir, soc. sci. res. center, Puerto Rico, 52-56; asst. prof. SO-

CIOL, Delaware, 56-59, assoc. prof, 59-62; NORTHWESTERN, 62-65, PROF, 65- U.S.A, 44-46. Fel. Sociol. Asn. Industrial sociology; social stratification, sociology of economic growth. Publ: Co-auth, Labor commitment and social change & Social class and social change in Puerto Rico. Address: Dept. of Sociology, Northwestern University, Evanston, Ill. 60201.

FELDMAN, DR. DOROTHY A(PPEL), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

FELDMAN, DR. GERALD D(ONALD), Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FELDMAN, PROF. HAROLD, b. Minneapolis, Minn, June 22, 17; m. 43; c. 3. SOCIAL & CLINICAL PSYCHOLOGY. B.S, Minnesota, 39, M.A, 46; Ph.D, Michigan, 52. Clin. psychologist, regional off, Vet. Admin. Ment. Hyg. Clin, Detroit, Mich, 46-47; from instr. to PROF. FAMILY RELS. & CHILD DEVELOP, CORNELL, 48- Res. assoc, Michigan, 47. Consult, Inst. Int. Ed, 61- Fulbright award, 56-57, 64-65. U.S.A, 42-46. Development of and changes in the husband-wife relationship during the marital life cycle; Ghanaian family in transition. Address: Dept. of Child Development & Family Relations, Cornell University, Ithaca, N.Y. 14850.

FELDMAN, DR. HAROLD S(AMUEL), Med. see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

FELDMAN, DR. HERMAN, b. South Fallsburg, N.Y, Feb. 21, 27; m. 48; c. 2. PSYCHOLOGY. B.A, N.Y. Univ, 50; Ph.D.(psychol), Nebraska, 55. Instr. PSYCHOL, INDIANA, NORTHWEST CAMPUS, 55-61, asst. prof, 61-65, ASSOC. PROF. & CHMN. DEPT, 65-, CHMN. DIV. ARTS & SCI, 67- Res. psychologist, Methodist Hosp. U.S.A, 45-47. Psychol. Asn. Learning; personality. Publ: Co-auth, Theory and research in abnormal psychology: a book of readings, Wadsworth, 68; auth, The psychosomatic hypothesis in oral pathology, J. Am. Dent. Asn, 4/63; Drive level and stimulus impoverishment, Am. J. Psychol, 9/65. Address: 8140 Lakewood Ave, Gary, Ind. 46403.

FELDMAN, DR. IRVING S, b. McKeesport, Pa, Aug. 25, 18; m. 47; c. 2. PSYCHOLOGY. A.B, Harvard, 47; M.S, Pittsburgh, 49, Ph.D.(psychol), 52. Sr. psychologist, Polk State Sch, Pa, 50-52; psychologist, State Dept. Insts. & Agencies, N.J, 52-59; ADMIN. DIR. MENT. HEALTH CLIN. OCEAN COUNTY, TOMS RIVER, 59- U.S.A, 42-45. Psychol. Asn; Soc. Proj. Tech; Asn. Ment. Deficiency. Mental retardation; personality and emotional problems of school age children. Publ: Psychological differences among moron and borderline mental defectives as a function of etiology, Am. J. Ment. Deficiency. Address: 502 E. Washington St, Toms River, N.J. 08753.

FELDMAN, PROF. JULIAN, b. Chicago, Ill, June 14, 31; m. 51; c. 3. BEHAVIORAL SCIENCE. M.A, Chicago, 54; Ph.D.(indust. admin), Carnegie Inst. Tech, 59. Asst. prof. bus. admin, California, Berkeley, 59-63, assoc. prof, 63-64, psychol. & econ, CALIFORNIA, IRVINE, 64-67, PROF. PSYCHOL, INFO. & COMMUN. SCI, 67- Nat. Sci. Found. sr. fel, 66-67. U.S.A, 55-56. Psychol. Asn; Polit. Sci. Asn; Asn. Comput. Mach. Computer simulation of human cognitive processes; decision-making behavior; organizational behavior. Publ: Co-ed, Computers and thought, McGraw, 63; auth, Computer simulations of cognitive processes; Simulation of behavior in the binary choice experiment. Address: Dept. of Information & Computer Science, University of California, Irvine, Calif. 92664.

FELDMAN, DR. KENNETH A, b. Saginaw, Mich, Oct. 6, 37; m. 64. SOCIAL PSYCHOLOGY. B.A, Michigan, 59, M.A, 61, Ph.D.(soc. psychol), 65. Lectr. sociol, Michigan, 65-66, asst. prof, 66-67, study dir. inst. soc. res, 65-67; ASST. PROF. SOCIOL, STATE UNIV. N.Y. STONY BROOK, 67- Sociol. Asn; Psychol. Asn. Socialization; social psychology of higher education; social psychology of attitudes; culture and personality. Publ: Co-auth, Study guide to accompany Newcomb, Converse, Turner: social psychology, Holt, 65: The impacts of colleges upon their students: an analysis of four decades of research, McGraw, (in press). Address: Dept. of Sociology, State University of New York at Stony Brook, Stony Brook, L.I, N.Y. 11790.

FELDMAN, DR. LAURENCE PETER, b. London, Eng, May 5, 32; U.S. citizen; m. 56; c. 2. MARKETING. B.S.B.A, Washington (St. Louis), 58, M.B.A, 59; Ph.D.(bus. admin), Minnesota, 65. ASST. PROF. MKT, Kent State, 65-66; ILLINOIS, CHICAGO, 66- Consult, automobile dealership performance eval, 67- U.S.A.F, 51-55. Mkt. Asn. Retail location analysis; marketing in an urban environment; influence of race on shopping behavior. Publ: Prediction of the spatial pattern of shopping behavior, J. Retailing, spring 67. Address: Dept. of Marketing, University of Illinois, Chicago Circle, Box 4348, Chicago, Ill. 60680.

FELDMAN, PROF. LEON ARYEH, Sociol, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FELDMAN, PROF. MARVIN J(EROME), b. St. Paul, Minn, Sept. 20, 22; m. 47, 64; c. 1. PSYCHOLOGY. B.B.A, Minnesota, 43, M.A, 45; U.S. Pub. Health Serv. fel, California, 47-48, Ph.D.(psychol), 49. Asst, California, 45-47; asst. prof, STATE UNIV. N.Y. BUFFALO, 48-52, assoc. prof. PSYCHOL, 52-60, PROF, 60-, dir. clin. training, 52-67. Vis. assoc, Tavistock Clin, London, Eng, 62-63. Consult, Vet. Admin, 50- Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. Psychol. Asn; Asn. Psychophysiol. Study Sleep. Clinical diagnostic testing; sleep disorders; family therapy. Publ: Prognostic scale for shock therapy, Psychol. Monogr; Co-auth, Visual-verbal test for schizophrenia, Psychiat. Quart; auth, Privacy and conjoint family therapy, Family Process, 67. Address: Dept. of Psychology, State University of New York at Buffalo, 4 Administration Rd, Buffalo, N.Y. 14214.

FELDMAN, DR. ROBERT SIMION, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

FELDMAN, DR. S(AMUEL) M(ITCHELL), Neurophysiol, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

FELDMAN, DR. SAUL, b. Brooklyn, N.Y, Mar. 13, 30; m. 52; c. 2. ADMINISTRATION. B.S, Long Island, 51, M.S, 61; Brooklyn Law Sch, 52; D.P.A, N.Y. Univ, 67. Clin. dir. ment. health, L.I. Consultation Center, 56-67; SPEC. ASST. TO DIR, DIV. MENT. HEALTH SERV. PROGS, NAT. INST. MENT. HEALTH, 67- Fel. Am. Soc. Pub. Admin, 67-68. Consult, Bronx Consultation Center, 62-67; Counseling & Psychother. Center, 63-67; Am. Asn. Marriage Counsr, 66-67. Pres, Psychiat. Outpatient Centers Am, 68-69. Soc. Pub. Admin; Psychol. Asn; Polit. Sci. Asn. Psychiatric outpatient clinic administration; community mental health services; administration of health services. Address: 4701 Willard Ave, Chevy Chase, Md. 20015.

FELDMAN, DR. SOLOMON ELLIOT, b. New York, N.Y, Mar. 9, 33; m. 56; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 54; U.S. Pub. Health Serv. fel, Indiana, 57-59, Ph.D.(psychol), 61. Clin. intern PSYCHOL, Conn. State Hosp, 59-60; asst. prof, Wisconsin, 60-65; ASSOC. PROF, NORTHERN ILLINOIS, 65- Consult. clin. serv, State of Wis, 61-65; Vet. Admin, 61-65; H. Douglas Singer Zone Center, Ill, 65- U.S.A, 54-56. Psychol. Asn; Asn. Adv. Behav. Ther. Perceptual responses in the face of ambiguity; psychopathology; behavior therapy; self help processes; self control; cheating. Publ: Co-auth, Experimental studies of schizophrenia, Psychonomic Press, 67; Effects of experimentally controlled experience upon recognition responses, Psychol. Monogr, 60; Short cut calculation of the Fisher-Yates exact test, Psychometrica, 63. Address: Dept. of Psychology, Northern Illinois University, DeKalb, Ill. 60115.

FELDMANN, DR. SHIRLEY C(LARK), b. Niagara Falls, N.Y, Apr. 14, 29. EDUCATIONAL PSYCHOLOGY. B.A, Columbia, 51, M.A, 52, Ph.D, 61. Instr. remedial reading, teachers col, Columbia, 56-58; asst. prof. psychol, State Univ. N.Y. Teachers Col. Fredonia, 58-60; asst. res. prof. psychiat, inst. develop. studies, N.Y. Med. Col, 60-63; asst. prof. ED, CITY COL. NEW YORK, 63-67, ASSOC. PROF, 67- Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed; Nat. Conf. Res. English; Soc. Res. Child Develop. Learning; psychology of reading; learning disabilities; development and measurement of educational readiness. Publ: Co-auth, A study in depth of first-grade reading, 66 & A study of the effectiveness of auditory skills for retarded readers, 66; auth, A preschool enrichment program for disadvantaged children, In: Preschool education today, Doubleday, 66. Address: 630 W. 246th St, Bronx, N.Y. 10471.

FELDMESSER, DR. ROBERT A(LLEN), b. Irvington, N.J, Dec. 22, 25; m. 46; c. 3. SOCIOLOGY. B.Litt, Rutgers, 48; fel, Harvard, 49-54, M.A, 51, Ph.D. (sociol), 56. Staff assoc, Russian Res. Center, Harvard, 54-55, instr. sociol, 55-57; dir, behav. sci. curriculum proj, sch. & univ. prog. res. & develop, grad. sch. ed, 60-62; asst. prof. SOCIOL, Brandeis, 57-64; ASSOC. PROF. DARTMOUTH, COL, 64- Soc. Sci. Res. Coun. res. fel, 59-60; vis. lectr, Harvard, 62-63. Exec. dir. Sociol. Resources Sec. Sch, 64-66. Fel. Sociol. Asn; Asn. Adv. Slavic Studies; Ed. Res. Asn; Comp. Ed. Soc. Sociology of education; social institutions of the Soviet Union; social stratification. Publ: Social classes and political structure, In: Transformation of Russian society, Harvard, 60; Equality and inequality under Khrushchev, In: Problems of communism, 60; Social status and access to high education: a comparison of the United States and the Soviet Union, Harvard Ed. Rev, spring 57. Address: Dept. of Sociology, Dartmouth College, Hanover, N.H. 03755.

FELDT, DR. ALLAN G(UNNAR), b. Tonawanda, N.Y, Apr. 20, 32; m. 54; c. 3. SOCIOLOGY. B.S, Michigan, 54, Ford Found. fel, 57-58, A.M, 58, Metrop. fel, 58-59, Pop. Coun. fel, 59-60, Ph.D.(sociol), 63. Teaching fel. sociol, Michigan, 60-61, res. assoc, 61-62; asst. prof. sociol. CORNELL, 62-66, CITY & REGIONAL PLANNING, 62-67, ASSOC. PROF, 67- Prog. assoc, int. pop. prog, Cornell, 62-64; res. assoc, Univ. Puerto Rico, 65-67; summer res. assoc, Tri-County Regional Planning Cmn, Mich, 65. Alderman, Ithaca Common Coun, N.Y, 68-72. U.S.A, 54-56, Res, 56-59. Sociol. Asn; Pop. Asn; Soc. Planning Off. Development and use of operational gaming techniques in education and urban research and planning; functional unity of urban and metropolitan areas; properties and qualities of urban neighborhoods. Publ: Community land use game, Center Housing & Environ. Studies, 65; Metropolitan area concept: an evaluation of the 1950 SMA's, J. Am. Statist. Asn, 6/65; Operational gaming in planning education; J. Am. Inst. Planners, 1/66. Address: Dept. of City Planning, Cornell University, Sibley Hall, Ithaca, N.Y. 14850.

FELDT, PROF. LEONARD S(AMUEL), b. Long Branch, N.J, Nov. 2, 25; m. 54; c. 2. STATISTICS. B.S, Rutgers, 50, M.Ed, 51; Ph.D.(ed), Iowa, 54. Res. assoc, state testing progs, IOWA, 53-55, asst. prof. ed, 55-59, assoc. prof. STATIST. & ED. MEASUREMENT, 59-64, PROF, 64- C.Eng, U.S.A, 43-46. Psychomet. Soc. Statistical methods; experimental design; educational measurements. Address: College of Education, East Hall, State University of Iowa, Iowa City, Iowa 52240.

FELICE, DR. ANTONIO, b. Bugnara, Italy, Sept. 6, 28; U.S. citizen; m. 59; c. 4. PSYCHOLOGY. A.B, Temple, 56, A.M, 57, Ph.D.(psychol), 61. Clin. & counseling psychologist, Vet. Admin. Hosp, Lebanon, Pa, 61-65; assoc. prof. psychol, Elizabethtown Col, 65-68, lectr, 62-65; MED. RES. SCIENTIST, HARRISBURG STATE HOSP, 68- Clin. & counseling psychologist, Vet. Admin. Hosp, Lebanon, 67- U.S.A, 51-53. Psychol. Asn. Psychopathology; performance of schizophrenics; personality development and theory; individual and group psychotherapy. Address: 726 Groff Ave, Elizabethtown, Pa. 17022.

FELIX, PROF. DAVID, b. New York, N.Y, June 10, 18; m. 46; c. 2. ECONOMICS. B.A, California, 42, M.A, 47, Ph.D, 55. Asst. econ, California, 47-50, assoc. bus. admin, 52-54; acting asst. prof, Washington (Seattle), 50-52; asst. prof. econ, Wayne State, 54-59, assoc. prof. & dir. center econ. studies, 59-66; PROF. ECON, WASHINGTON (ST. LOUIS), 66- Rockefeller res. fel, 57-58. U.S.N, 42-46, Lt. Econ. Asn; Econ. Hist. Asn. Economic history and development; international trade. Publ: Profit inflation and industrial growth, Quart. J. Econ; co-auth, U.S. industry and labor in Latin America, U.S. Senate Monogr; auth, Beyond import substitution, In: Development policy—theory and practice, Harvard, 68. Address: Dept. of Economics, Washington University, St. Louis, Mo. 63130.

FELIZ, PROF. GEORGE C(OMTE), b. Santa Rosa, Calif, July 8, 10; m. 34; c. 2. ECONOMICS. A.B, Stanford, 30, M.B.A, 34, Ph.D.(higher ed), 49. Instr. econ, Menlo Col, 35-36; instr. & mem. admin. staff, Santa Rosa Jr. Col, 36-42; price economist & dist. price exec, Off. Price Admin, 42-45; asst. prof. bus. & econ, SAN FRANCISCO STATE COL, 46-49, assoc. prof, 49-53, PROF. ECON, 53-, dean grad. div, 60-65. Chief Colombian Higher Ed. Proj, Univ. California, 66-67. Statist. Asn; Econ. Asn. Economics of education and development; labor economics; higher education. Address: Dept. of Economics, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

FELLEGI, DR. IVAN P, b. Budapest, Hungary, June 22, 35; Can. citizen. m. 58; c. 2. STATISTICS. B.Sc, Budapest, 56; M.Sc, Carleton (Can), 58, Ph.D.(math. statist), 61. DIR. SAMPLING & SURV. RES. STAFF, DOM. BUR. STATIST, 57- Mem. panel statist. consults, Bur. Census, 64- Fel. AAAS; fel. Am. Statist. Asn; Int. Statist. Inst. Survey research; sampling; mathematical statistics; system design. Publ: Sampling with varying probabilities, 63, Response variance and its estimation, 64 & co-auth, The new design of the Canadian Labour Force Survey, 67, J. Am. Statist. Asn. Address: Dominion Bureau of Statistics, Tunney's Pasture, Ottawa, Ont, Can.

FELLER, DR. IRWIN, b. Brooklyn, N.Y, Aug. 9, 38; m. 60; c. 2. ECONOMICS. B.B.A, City Col. New York, 59; Ph.D.(econ), Minnesota, 66. ASST. PROF. ECON, PA. STATE, 66- Mem, Gov. Cmt. Priorities, Pa, 68. Econ. Asn; Econ. Hist. Asn. Urbanization and the quantity and composition of inventive activity; a two-sector model of United States antebellum development. Publ: Inventive activity in agriculture, 1837-90, 62 & The Draper Loom in New England textiles, 66, J. Econ. Hist; Approaches to the diffusion of innovations, Explor. Entrepreneurial Hist, 67. Address: Boucke Bldg, Pennsylvania State University, University Park, Pa. 16802.

FELLMAN, PROF. DAVID, b. Omaha, Nebr, Sept. 14, 07; m. 33; c. 2. POLITICAL SCIENCE. A.B, Nebraska, 29, A.M, 30, LL.D, 66; univ. scholar, Yale, 31-32, Bloch fel, 32-33, Sterling fel, 33-34, Ph.D, 34. Instr. polit. sci, Nebraska, 34-39, asst. prof, 39-43, assoc. prof, 43-47, dir, army specialized training prog, 43-44; prof. POLIT. SCI, WISCONSIN, 47-65, VILAS PROF, 65- Mem. cmn. fed. rels, Coun. on Ed, 66- Polit. Sci. Asn; Asn. Univ. Prof.(pres, 64-66). Public law; political theory; American government. Publ: The defendant's rights, Rinehart, 58; The limits of freedom, Rutgers, 59; Defendant's rights under English law, Univ. Wisconsin, 66. Address: 217 North Hall, University of Wisconsin, Madison, Wis. 53706.

FELLMANN, DR. JEROME D(ONALD), b. Chicago, Ill, June 28, 26; m. 48; c. 2. GEOGRAPHY. Ph.B, Chicago, 46, B.S, 47, M.S, 48, Ph.D.(geog), 50. Instr. GEOG, ILLINOIS, 50-52, asst. prof, 52-57, ASSOC. PROF, 57- Asn. Am. Geog; Regional Sci. Asn. Urban geography, particularly economic base analysis and growth patterns of cities; urban problems of the geography of the Union of Soviet Socialist Republics; historical geography. Address: 601 Harding Dr, Urbana, Ill. 61801.

FELLNER, PROF. WILLIAM J(OHN), b. Budapest, Hungary, May 31, 05; nat; m. 36; c. 1. ECONOMICS. B.S, Swiss Fed. Inst. Tech, 27; Ph.D.(econ), Berlin, 29. Lectr. ECON, California, 39-40, asst. prof, 41-43, assoc. prof, 43-47, prof, 47-52; YALE, 52-58, STERLING PROF, 58-, chmn. dept, 62-64. Vis. lectr, Buffalo, 47; Harvard, 50-51. Consult, U.S. Treasury Dept, 45, 49-52; Nat. Security Resources Bd, 47-48. Am. Econ. Asn.(pres, 69); Econometr. Soc; fel. Acad. Arts & Sci; Royal Econ. Soc. Economic theory; technological progress; risk and utility. Publ: Monetary policies and full employment, California, 46; Competition among the few, Knopf, 49; Probability and profit, Irwin, 65. Address: Dept. of Economics, Yale University, 37 Hillhouse Ave, New Haven, Conn. 06520.

FELS, PROF. EBERHARD M(AXIMILIAN), b. Berlin, Germany, Jan. 13, 24; m. 57; c. 2. MATHEMATICS, ECONOMICS. Ph.D.(econ), Munich, Germany, 53. Ed. writer, Die Neue Zeitung, Munich, 48-50; res. assoc, IFO Inst. Econ. Res, 54; teaching fel. econ, Harvard, 55-56; fel, center adv. study in behavioral sci, Stanford, 56; vis. asst. prof. econ, California, 57-58; assoc. prof. math, Pittsburgh, 58-62, PROF. statist. & soc. sci, 62-64; ECONOMET. & STATIST, MUNICH, 63- German Navy, 42-45. Econometr. Soc; Statist. Asn; Inst. Math. Statist; Soc. Indust. & Appl. Math; Math. Soc; Asn. Symbolic Logic; Biomet. Soc; Royal Econ. Soc. Foundations of mathematics; statistical inference; mathematical economics. Publ: Kaluzhnin graphs and Yanov writs, In: Logik und Logikkalkül, 62 & co-auth, Methodology of economics, In: Enzyklopädie geisteswissenschaftlicher Arbeitsmethoden, Vol. 8, 67, R. Oldenbourg, Munich; auth, Hedonistic calculus as seen from a distance, Weltwirtschaftliches Arch, 63. Address: Dept. of Economics, Institute of Statistics, University of Munich, 8 Muenchen 22, Germany.

FELS, PROF. RENDIGS T(HOMAS), b. Cincinnati, Ohio, June 11, 17. ECONOMICS. A.B, Harvard, 39, Ph.D, 48; A.M, Columbia, 40. Asst. prof. ECON, VANDERBILT, 48-52, assoc. prof, 52-56, PROF, 56-, chmn. dept, 62-65. Chmn, Univs. Nat. Bur. Cmt. Econ. Res, 62-67; Cmt. Col. Level Test Econ. Understanding, 65- Econ. Asn. Publ: American business cycles, 1865-1897; An introduction to economics, 2nd ed; co-auth, Forecasting and recognizing business cycle turning points. Address: Box 1664, Vanderbilt University, Nashville, Tenn. 37203.

FELSENBURG, DR. GERTRUD K, b. Vienna, Austria; nat; m. 38; c. 1. PSYCHOLOGY. Ph.D, Vienna, 37; Denver, 40-55; Tulane, 43. Psychologist & soc. worker, Nat. Jewish Hosp, 41-43, 44-46; FIELD REP, INST. MOTIVATIONAL RES, 45-; THERAPIST, DENVER CHILDREN'S HOME, 67- Researcher, Nat. Opinion Res. Center, 46-47; psychologist, Nat. Jewish Home Asthmatic Children, 55-58; psychologist, Booth Mem. Hosp, 60-67. Psychol. Asn. Child psychology; psychosomatic medicine; motivational research. Publ: Rehabilitation of tubercular patients, Psychol. Bull. Address: 1050 Kearney St, Denver, Colo. 80220.

FELSTEHAUSEN, DR. HERMAN HENRY, b. Clark, S.Dak, Feb. 24, 36; m. 60; c. 2. AGRICULTURE, JOURNALISM. B.S, S.Dak. State, 59; M.S, Wisconsin, 60, Ph.D.(commun. econ), 64; Fulbright scholar, Wageningen, 62-63. Asst. ed. agr. sci, WISCONSIN, 60-62, asst. adminstr. agr. develop, LAND TENURE CENTER, 63-66, ASST. PROF. AGR. DEVELOP. & COUNTRY DIR, COLOMBIA, 66- Asn. Ed. Journalism; European Soc. Rural Sociol. Organization and functioning of community services and national infra-structure and the roles they play in rural development. Publ: Economic knowledge and comprehension in a Netherlands farming community, Wageningen, 65; Economic knowledge, participation and farmer decision making, Int. J. Agrarian Affairs, 68; Improving access to Latin American agricultural information through modern documentation centers, Quart. Bull. Int. Asn. Agr. Librarians & Documentalists, 68. Address: Land Tenure Center, 310 King Hall, University of Wisconsin, Madison, Wis. 53706.

FELTON, DR. JOHN RICHARD, b. Toledo, Ohio, Mar. 25, 17; m. 47; c. 2. ECONOMICS. B.A, California, Los Angeles, 39, M.A, 41, Ph.D, 61. Asst. econ, California, Los Angeles, 40-43; 46-48; head food & distribution sect, Nat. War Labor Bd, 43-46; asst. prof. econ, San Diego State Col, 48-51; dir. Los Angeles Br, Nat. Wage Stabilization Bd, 51-53; head syst. & procedures div, U.S. Naval Ord. Test Sta, 53-55, ed. dir, 55-62; asst. prof. ECON, NEBRASKA, 62-66, assoc. prof, 66-68, PROF, 68- Consult, Nebr. Pub. Power Syst, 66- Econ. Asn. Market structure variables and economic performance; rate-making philosophies and economic efficiency in railroad transport; performance of the public power system in Nebraska. Publ: Competition in the energy market between gas and electricity, Nebr. J. Econ. & Bus, Autumn,65; Concentration, condition of entry and profit rates, Miss. Valley J. Bus. & Econ, Spring 66; Commodity rate discrimination in railroad transport, In: Transportation problems and policies in the Trans-Missouri west, Univ. Nebraska, 67. Address: Dept. of Economics, University of Nebraska, Lincoln, Nebr. 68508.

FELTON, DR. RALPH A(LMON), Sociol, see 10th ed, Soc. & Behav. Vols. Latest known address: The Hermitage, 5000 Fairbanks Ave, Alexandria, Va. 22311.

FELTON, DR. WILLIAM SIDNEY, JR, b. Salem, Mass, Jan. 20, 27; m. 59; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Marietta Col, 48; M.A, Colorado, 51, Ph.D, 55. Instr. sociol, Colorado, 52-53; personnel asst, Leesona Corp, R.I, 55; instr. sociol, Maryland, 55-59, lectr. sociol. & psychol, univ. overseas prog, Germany, 59-60; asst. prof. SOCIOL, Fla. State, 60-61; Rollins Col, 61-64; ASSOC. PROF, KEENE STATE COL, 64- Asst. res. dir, Baltimore Coun. Soc. Agencies, 58-59; res. consult, Am. Tel. & Tel. Co, 58-64. Fel. Sociol. Asn. Factors bearing on personnel selection and hierarchical mobility within industrial, governmental and military bureaucratic organization. Publ: The cognitive structure concept: a reality test, J. Colo-Wyo. Acad. Sci; co-auth, Experimental histories of culture, Am. Sociol. Rev. & Culture change and social response in experimental societies. Address: Dept. of Sociology, Keene State College, Keene, N.H. 03431.

FELZER, DR. STANTON B(ERNARD), b. Philadelphia, Pa, Nov. 6, 28. PSYCHOLOGY. Ph.D.(psychol), Temple, 54. Asst. psychol, Temple, 51-53, lectr, 53-54; partner, H.J. Wuphr & Assoc, 54-56; sr. clin. psychologist, East. Pa. Psychiat. Inst, 56-59; asst. prof. PSYCHOL, DEPT. PSYCHIAT, med. center, TEMPLE, 61-66, ASSOC. PROF, HEALTH SCI. CENTER, 66-, ASST. DIR, COMMUNITY MENT. HEALTH CENTER, 67- Private practice, 59- U.S.A, 54-56. Psychol. Asn. Community mental health, especially consultation and education programs. Publ: Co-auth, Activity in initial interviews with lower-class patients, Arch. Gen. Psychiat, 64; Psychotherapy, dropouts and lower social class patients, Am. J. Orthopsychiat, 66; Mental health training program for community workers, Pa. Psychiat. Quart, 66. Address: 340 Ainslie Rd, Huntingdon Valley, Pa. 19006.

FENCHEL, DR. GERD H(ERMANN), b. Berlin, Germany, Mar. 29, 26; nat; m. 49. PSYCHOLOGY. B.S.S, City Col. New York, 47, fel, 47-50, M.S, 50; Ph.D, N.Y. Univ, 59. PSYCHOLOGIST, ALFRED ADLER CONSULT. CENTER, 52-, ASST. DEAN & LECTR, ALFRED ADLER INST, 55- Asst, Bd. Higher Ed, New York, 50; clin. psychol. trainee, Vet. Admin, 51-55; clin. psychologist, L.I. Consult. Center, 53-55; supvr. psychologist & coordinator group psychother, 55-60, dir. inst. group psychother, 59-60; psychologist, Columbia Grammar & Leonard Schs, 54-56; dir, Wash. Square Inst. Ment. Health & Psychother, 60-; private practice. Psychol. Asn; fel. Group Psychother. Asn; fel. Coun. Psychoanal. Psychother; fel. Int. Coun. Psychol. Group behavior; analytic therapy; cognitive processes. Publ: Individual adjustment and group life, Psychol. Newsletter; Role of the ego concept in modern psychoanalytic thought, Psychoanal. & Psychoanal. Rev; co-auth, Subjective status and the equilibration hypothesis, J. Abnorm. & Soc. Psychol. Address: 50 W. 96th St, New York N.Y. 10025.

FENDRICH, DR. JAMES M, b. Salem, S.Dak, Oct. 31, 38; m. 63; c. 1. SOCIOLOGY. A.B, Seattle, 60; M.A, Notre Dame, 62; Nat. Inst. Ment. Health fel. & Ph.D.(sociol), Mich. State, 65. ASST. PROF. SOCIOL, FLA. STATE, 65- Consult, U.S. Cmn. Civil Rights, 63. Sociol. Asn. Race relations and social psychology. Publ: A study of the association among verbal attitudes, commitment and overt behavior in different experimental situations, Soc. Forces, 3/67, reprinted In: Issues in social psychology; Percieved reference group support: racial attitudes and overt behavior, Am. Sociol. Rev, 12/67; Leadership in American society: a case study of Negro leadership in Civil Rights, Sociol. Resources Sec. Schs, spring 68. Address: Dept. of Sociology, Florida State University, Tallahassee, Fla. 32306.

FENDRICK, DR. PAUL, Psychol, see 10th ed, Soc. & Behav. Vols.

FENENGA, PROF. FRANKLIN, b. Aberdeen, S.Dak, July 20, 17; m. 38; c. 5. ANTHROPOLOGY. A.B, California, 42, 42-44, 46, 47. Field archaeologist, Sacramento Jr. Col, 36-40; archaeologist, river basin surv, Smithsonian Inst, Calif, Ore. & Wash, 46-47, Mo. River Basin Surv, 50-53, Calif, 48-50; res. assoc, Nebraska, 50-60; dir. mus, Ga. Hist. Cmn, 60-65; ASST. PROF. ANTHROP, CALIF. STATE COL. LONG BEACH, 65- Curator anthrop, State Mus, Nebr, 55-60. Ed, Plains Anthrop, 50- Consult, lands div, U.S. Dept. Justice, 54- U.S.A, 42-45. Fel. Anthrop. Asn; Ethnol. Soc; Soc. Archaeol. North American archaeology; archaeological method and application of techniques to history. Address: Dept. of Anthropology, California State College, Long Beach, Calif. 90804.

FENG, PROF. ALAN C. J, b. Shanghai, China, July 7, 33. POLITICAL SCIENCE. B.A, Morningside Col, 58; Virginia, 58; M.A, California, Los Angeles, 60; N.Y. Univ, 61-64. Asst. POLIT. SCI, N.Y. Univ, 62-64; instr, Col. Ins, 64-65; asst. prof, CHEYNEY STATE COL, 65-66, ASSOC. PROF, 66- International relations, particularly the emergence of Communist China as a world power and her role in the international community. Publ: Co-auth, American political system, East-West Cultural Center, 65. Address: Dept. of Political Science, Cheyney State College, Cheyney, Pa. 19319.

FENICHEL, DR. CARL, b. New York, N.Y, Dec. 30, 05; m. 54; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 28; M.A, New Sch. Soc. Res, 51; cert, William Alanson White Inst. Psychiat, 53; Ed.D, Yeshiva, 59. Teacher & therapist spec. ed, Kings County Hosp. & psychiat. div, Sch. Disturbed Children, New York, 48-52; DIR. PSYCHOL. & ED, LEAGUE SCH. SERIOUSLY DISTURBED CHILDREN, 52- Mem, N.Y. State Dept. Ment. Hyg. Cmt. Children, 66-; Congressional Sub-cmt. on the Handicapped, 66, joint cmn. ment. health of children, task force IV, 66-; N.Y. State Joint Legis. Cmt. Ment. & Phys. Handicaps, 66- U.S.A, 43-45, Sgt. Psychol. Asn; Orthopsychiat. Asn. Pioneering in the field of day school and treatment centers for schizophrenic children; therapeutic education for mentally ill children; improving concept formation in mentally ill children; home training program for pre-school, mentally ill children and their parents. Publ: Pilot study of schizophrenic children & Day school for schizophrenic children, Am. J. Orthopsychiat; co-auth, Educational therapy, Spec. Child Pub, 66. Address: 87 State St, Brooklyn, N.Y. 11201.

FENLON, DR. PAUL E(DWARD), Econ, see 10th ed, Soc. & Behav. Vols.

FENN, PROF. P(ERCY) T(HOMAS), JR, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 64.

FENNER, PROF. JAMES, b. New York, N.Y, Dec. 31, 23. ECONOMICS. A.B, Michigan, 45; M.A, Columbia, 48. ASST. PROF. econ. hist, Monmouth Jr. Col, 48; ECON, BRIDGEPORT, 49- U.S.A, 43-46. Econ. Asn. Economic history of the United States; economic development of the world. Address: 230 Park Ave, Bridgeport, Conn. 06602.

FENNO, PROF. RICHARD F, JR, b. Winchester, Mass, Dec. 12, 26; m. 48; c. 2. POLITICAL SCIENCE. A.B, Amherst Col, 48; M.A, Harvard, 49, fel, 49-51, Ph.D.(polit. sci), 56. Instr. govt, Wheaton Col, 51-53; POLIT. SCI, Amherst Col, 53-56, asst. prof, 56-57; ROCHESTER, 57-60, assoc. prof, 60-64, PROF, 64- Soc. Sci. Res. Coun. res. grants, 60-61, summer 62; Rockefeller Found. res. grant, 63-64. Mem. cmt. govt. & legal process, Soc. Sci. Res. Coun, 64- U.S.N, 44-46. Polit. Sci. Asn. American national government; public administration; legislative behavior. Publ: The President's Cabinet; co-auth, National politics and federal aid to education, Syracuse, 62; The power of the purse: appropriations politics in congress, Little, 66. Address: Dept. of Political Science, University of Rochester, Rochester, N.Y. 14627.

FENSKE, DR. RUSSELL W, b. Milwaukee, Wis, Mar. 28, 30; m. 52; c. 3. BUSINESS ADMINISTRATION. B.S, Wisconsin, 52; M.B.A, Northwestern, 57, Ph.D.(bus. statist), 62. Engr. rocket test, Bell Aircraft Corp, 52-53, liaison rocket test, 53-55; instr. bus. statist, Northwestern, 56-57; WISCONSIN, MILWAUKEE, 58-62, asst. prof. quant. anal, 62-66, ASSOC. PROF. QUANT. ANAL. & ASST. DEAN GRAD. PROGS, 66- Found. Econ. Ed. & Nat. Sci. Found. fels, 63. Quant. anal. consult, banks, utilities, mgt. consultants & indust. firms, 62- Inst. Mgt. Sci; Statist. Asn.(pres, 67-68). Projects in programmed learning; operations research; inventory and linear programming; computer scheduling. Publ: An analysis of the meaning of productivity, Productivity Measurement Rev, 8/65; Hyper-logarithmetic trends, Appl. Statist, 6/66; Extracting more information from work sampling study, J. Indust. Eng, 7/67. Address: School of Business Administration, University of Wisconsin-Milwaukee, Milwaukee, Wis. 53201.

FENSTER, DR. C(HARLES) ABRAHAM, b. New York, N.Y, Aug. 15, 41; m. 67. PSYCHOLOGY. B.B.A, City Col. New York, 62; U.S. Pub. Health Serv. fel, Columbia, 62-63, M.S, 65, dipl. & Ph.D.(clin. psychol), 67. Teaching asst. psychol, Columbia, 63-64; intern, Vet. Admin. Hosp, Montrose, N.Y, 66-67; ASST. PROF. PSYCHOL, JOHN JAY COL. & LECTR, GRAD. DIV, CITY COL, NEW YORK, 67- Vis. res. asst, Israel Inst. Appl. Soc. Res, summer, 63. Psychol. Asn. Personality; psychological testing; psychotherapy. Publ: Co-auth, Conversion and orthodox Judaism, Jewish J. Sociol, 6/68. Address: Dept. of Psychology, John Jay College of Criminal Justice, 315 Park Ave. S, New York, N.Y. 10010.

FENSTERHEIM, DR. HERBERT, b. Brooklyn, N.Y, July 22, 21; div. PSYCHOLOGY. B.A, N.Y. Univ, 41, Ph.D.(psychol), 58; M.A, Columbia, 42. Asst. prof. psychol, grad. faculty, New Sch. Soc. Res, 60-61; vis. prof, City Col. New York, 63-64; ASST. PROF. PSYCHIAT, N.Y. MED. COL, 64-, CO-DIR. BEHAV. THER. TRAINING PROG, 67- Psychol. Asn; Orthopsychiat. Asn. Behavior therapy. Address: Dept. of Psychiatry, New York Medical College, New York, N.Y. 10029.

FENSTERMAKER, DR. JOSEPH VAN, b. Columbus, Ga, July 4, 33; m. 55; c. 1. FINANCE, ECONOMICS. B.S, Kent State, 58, M.A, 59; Earhart Found. fel. & Ph.D.(econ), Illinois, 63. Economist, Fed. Reserve Bank New York, 62-64; asst. prof. econ, Kent State, 64-66; ASSOC. PROF. FINANCE & CHMN. DEPT, SOUTHERN ILLINOIS, 66- Econ. Asn; Finance Asn; Econ. Hist. Asn. Financial markets; cash management; commercial banking structure and competition; economic theory. Publ: The development of American commercial banking, Bur. Bus. Res, Kent State Univ, 65; Cash management, Kent State Univ, 67; Readings in financial markets and institutions, Appleton, 68. Address: Dept. of Finance, Southern Illinois University, Carbondale, Ill. 62901.

FENTON, PROF. JOHN HAROLD, b. Canton, Ohio, Sept. 9, 21; m. 50; c. 2. POLITICAL SCIENCE. A.B, Kentucky, 48, M.A, 51; Soc. Sci. Res. Coun. fel, Harvard, 54-55, Ph.D, 56. Budget analyst, Dept. Finance, Commonwealth Ky, 49-51; head mgt. serv. dept, Oak Ridge Inst. Nuclear Studies, Tenn, 51-53; instr. polit. sci, Tulane, 55-57; asst. prof, Mich. State, 57-59; prof. GOVT, MASSACHUSETTS, 59-61, COMMONWEALTH PROF, 61- Soc. Sci. Res. Coun. fel, 59-60; vis. prof, Col. Europe, 66-67. Consult, South. Regional Coun, 56; State Dept. Finance, Ohio, 57-58, 61-62. U.S.A, 40-45, Sgt. Polit. Sci. Asn. Political behavior and political party patterns; border state and midwest politics; Catholic vote; Negro registration; right to work vote. Publ: Politics in the border states; People and parties in politics, Scott, 66; Midwest politics, Holt, 66. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

FENTON, DR. NORMAN, b. New York, N.Y, Mar. 21, 95; m. 21; c. 2. PSYCHOLOGY. B.S, Harvard, 17, A.M, 18; Ph.D.(psychol), Stanford, 25. With Boston Psychopath. Hosp, 17-18; Nat. Cmt. Ment. Hyg, 19-20; instr. ed, Ariz. State Teachers Col. Tempe, 22-26; assoc. prof. psychol, Ohio, 26-28; dir, State Bur. Juvenile Res, Calif, 28-40; prof. ed, Stanford, 40-44; dep. dir. classification & treatment, state dept. corrections, 44-58, dir. res. proj, 58-65; RETIRED. Pepperdine Col. award, 63. Med.Serv.C, U.S.A, 17-19. Fel. Psychol. Asn; Correctional Asn.(v.pres, 54, Edward R. Cass award, 64). Mental hygiene; aftermath of war neurosis; juvenile and adult correctional work. Publ: Mental hygiene in school practice, Observations of the correctional system of Denmark; Group counseling in a correctional setting, State of Calif, 56. Address: Route 3, Box 119, Carmel, Calif. 93921.

FENTON, DR. WILLIAM N(ELSON), b. New Rochelle, N.Y, Dec. 15, 08; m. 36; c. 3. ETHNOLOGY. A.B, Dartmouth Col, 31; Ph.D.(anthrop), Yale, 37. Community worker, U.S. Indian Field Serv, 35-37; instr. sociol. & anthrop, St. Lawrence, 37-38, asst. prof, 38-39; assoc. anthropologist, Bur. Am. Ethnol, Smithsonian Inst, 39-43, sr. ethnologist, 43-51; exec. secy, div. anthrop. & psychol, Nat. Acad. Sci-Nat. Res. Coun, 52-54; asst. cmnr, N.Y. State Mus. & Sci. Serv, 54-68; RES. PROF. ANTHROP, STATE UNIV. N.Y. ALBANY, 68- Fel. Rochester Mus, 56. Res. assoc, Ethnogeog. Bd, 43-45; secy, Smithsonian War Cmt, 42-44; cmt. on lang. & area studies, Am. Coun. Ed, 45-46; Cmt. Int. Rels. Anthrop, 46-66. U.S. del, Int. Cong. Anthrop. & Ethnol, Vienna, 52, mem. permanent coun, 52- Cornplanter Medal, 65. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; Folklore Soc. North American Indian ethnology; Iroquois studies; tribal organization. Publ: Iroquois eagle dance; studies in political history of the six nations; Museum and anthropological research. Address: Dept. of Sociology & Anthropology, State University of New York at Albany, Albany, N.Y. 12203.

FENWICK, DR. CHARLES G(HEQUIERE), b. Baltimore, Md, May 26, 80. INTERNATIONAL LAW. A.B, Loyola Col, 07, Litt.D, 56; Ph.D, Hopkins, 12; LL.D, Marquette, 30, Holy Cross Col, 48, Catholic Univ, 49. Prof. polit. sci, Bryn Mawr Col, 18-40; U.S. mem, Inter-Am. Neutrality Cmt, 40-42; Inter-Am. Juridical Cmt, 42-47; dir. dept. int. law, Pan Am. Union, 48-62; RETIRED. Polit. Sci. Asn.(v.pres, 47); Soc. Int. Law (hon. v.pres, 24-, pres, 52-54). Publ: International law; Inter-American regional system; Cases on international law. Address: 3265 N St. N.W, Washington, D.C. 20007.

FENZ, DR. WALTER DAVID, b. Florence, Italy, June 27, 33. PSYCHOLOGY. B.A, South. Missionary Col, 54; M.A, Andrews, 55, B.D, 57; M.Sc, Hawaii, 59; Ph.D.(psychol), Massachusetts, 63. Intern PSYCHOL, med. center, Duke, 62-63; res. assoc, Massachusetts, 63-65; asst. prof, WATERLOO, 65-66, ASSOC. PROF, 66- Consult, Ont. Dept. Health, 65- Psychol. Asn; Psychonomic Soc; Soc. Res. Psychophysiol. Experimental research in personality; measurement of conflict and conflict resolution; psychophysiology as related to stress. Publ: Conflict and stress as related to physiological activation and cognitive functioning, Psychol. Monogr, 64; Specific and general inhibitory reactions associated with mastery of stress, J. Exp. Psychol, 68; Electrodermal arousal of chronically ill psychiatric patients, Psychosom. Med, 68. Address: Dept. of Psychology, University of Waterloo, Waterloo, Ont, Can.

FERARU, DR. ARTHUR, b. Hartford, Conn, Nov. 2, 25; m. 49; c. 2. POLITICAL SCIENCE. B.A, Long Island, 45; M.A, Columbia, 48; D. Univ.(int. rels), Lyon, 51; London Sch. Econ, 51-52. Mem, UNESCO-UN Korean Reconstruct. Agency Ed. Planning Mission, Korea, 52-53; spec. asst. to exec. v.pres, Inst. Int. Ed, 54-61; dean, Adelphi Suffolk Col, 61-62; dir, exchange of persons prog, East-West Center, Univ. Hawaii, 63-65; dean faculty, PITZER COL, 65-68, ASSOC. PROF. POLIT. STUDIES, 65-; RES. ASSOC. INSTNL. RES, CLAREMONT UNIV. CENTER, 68- U.S.A, 44-46. Asn. Asian Studies; Nat. Asn. For. Student Affairs. Korea; international relations in the Far East; public opinion; international education and educational exchange. Publ: Co-auth, Rebuilding education in the Republic of Korea, UNESCO, 54. Address: Dept. of Political Science, Pitzer College, Claremont, Calif. 91711.

FERBER, PROF. ROBERT, b. New York, N.Y, Feb. 13, 22; m. 46; c. 2. ECONOMIC STATISTICS. B.S, City Col. New York, 42; scholar, Chicago, 42-43, fel, 43-44, M.A, 45, Ph.D.(econ. statist), 51. Asst, Cowles Found. Res. Econ, Chicago, 43-44; statistician, Indust. Survs. Co, 44-45; economist & statistician, I. deVegh Co, N.Y, 45-47; res. asst. prof. econ, ILLINOIS, 48-51, res. assoc. prof, 51-57, RES. PROF. ECON. & MKT, 57-, DIR. SURV. RES. LAB, 65- Ed. J. Mkt. Res, 63- Econ. Asn; Statist. Asn; Economet. Soc; Mkt. Asn; Inst. Math. Statist. Statistical and econometric analysis in economics and business; marketing; sampling; consumer economics. Publ: Co-auth, Research methods in economics and business and Marketing research, Ronald, 66; auth, Reliability of consumer reports of financial assets and debts, Univ. Illinois, 66. Address: 606 S. Western Ave, Champaign, Ill. 61820.

FERDINAND, DR. THEODORE N(ICHOLS), b. South Bend, Ind, June 8, 29; m. 60; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.S, Notre Dame, 51; M.S, Purdue, 53; Ph.D, Michigan, 61. Asst. prof. SOCIOL, Central Michigan, 59-61; NORTHEASTERN, 61-65, ASSOC. PROF, 65- Res. analyst, Community Progress Inc, Conn, 66-67. AAAS; Sociol. Asn; Soc. Study Social Probs; Criminol. Soc. Juvenile delinquency; social theory and psychology. Publ: Typologies of delinquency, Random, 66; On the obsolescence of scientist and engineers, Am. Scientist, 66; Criminal patterns of Boston since 1849, Am. J. Sociol, 67. Address: Dept. of Sociology, Northeastern University, Boston, Mass. 02115.

FERDON, EDWIN N(ELSON), JR, b. St. Paul, Minn, June 14, 13; m. 39; c. 3. GEOGRAPHY, ARCHAEOLOGY. B.A, New Mexico, 37; M.A, Southern California, 42. Curator, br. mus, Sch. Am. Res, Mus. of N.Mex, 37-38, Mid. Am. Archaeol, 38-40, res. assoc. Hispanic studies, 40-45, res. assoc. in charge, 45-58; assoc. dir, Mus. Int. Folk Art, 58-60; coordinator of interpretation, div. anthrop, Mus. of N.Mex, 60-61; ASSOC. DIR, STATE MUS, ARIZONA, 61- AAAS; Soc. Archaeol. Archaeological survey and excavation in New Mexico, Ecuador, Easter Island, Pitcairn, Rapa and Marquesas Islands of Polynesia; climate; archaeology of Mexico. Publ: Tonala, Mexico: an archaeological survey; A trial survey of Mexican-Southwestern architectural parallels; co-ed, Reports of the Norwegian archaeological expedition to Easter Island and the East Pacific. I. Archaeology of Easter Island. Address: Arizona State Museum, University of Arizona, Tucson, Ariz. 85721.

FERDOWS, DR. ADELE K, b. Meshed, Iran, Aug. 31, 33; m. 57; c. 2. POLITICAL SCIENCE. B.A, Teheran, 55; B.A, Southwest Tex. State Col, 60; M.S, Indiana, 62, Ph.D.(polit. sci), 67. Instr. POLIT. SCI, LOUISVILLE, 66-67, ASST. PROF, 67- Polit. Sci. Asn; Mid. East Studies Asn. N.Am. Middle Eastern politics, especially the modern period; international relations and organizations; comparative government. Address: 1539 Briarwood Dr, Clarksville, Ind. 47130.

FEREBEE, DR. E(NOCH) EMORY, Econ, see 10th ed, Soc. & Behav. Vols.

FERGER, DR. WIRTH F(ITCH), b. Chattanooga, Tenn, Nov. 5, 97; m. 20. ECONOMICS, STATISTICS. B.A, Wisconsin, 19, Ph.D, 31; M.A, Columbia, 20. Asst. prof, North Carolina, 28-31, assoc. prof. econ, 31-35; econ. adv, U.S. Dept. Agr, 35-39; asst. chief, econ. res. div, Commodity Credit Corp, 39-40; acting chief, Brit. Div, Bd. Econ. Warfare, 40-41; chief econ. res. div, livestock br, War Food Admin, 41-43; asst. head, bus. & indust. res. div, Bur. Internal Revenue, 43-46, head, 46-48; econ. adv, U.S. Internal Revenue Serv, 48-55, mem. staff, res. div, 55-65; RETIRED. Meritorious Serv. award, U.S. Treas. Dept, 65. U.S.A, 18. Econ. Asn; Statist. Asn. Tax administration; statistical methods; price and demand theory. Publ: Contribution of economics of federal tax administration; Measurement of tax shifting, economics and law; static and the dynamic in statistical demand curves. Address: 4635 N. Rock Spring Rd, Arlington, Va. 22207.

FERGUSON, DR. ALLEN RICHMOND, b. Pawtucket, R.I, Sept. 27, 19; m. 44; c. 4. ECONOMICS. A.B, Brown, 41, A.M, 43; Ph.D, Harvard, 49. Asst. prof. econ. & res. assoc, bur. pop, Virginia, 49-51; economist, transportation br, Off. Price Stabilization, 51-52; dep. head, logistics dept, Rand Corp, 53-58; dir. res, transportation center, Northwestern, 58-60; economist, Rand Corp, 60-63; coordinator int. aviation, U.S. Dept. State, 63-65; dir. econ, PLANNING RES. CORP, 65-66, dep. mgr, systs. econ. div, 66-67, INTERCORP. DIR. TRANSPORTATION, 68- Consult, invisibles div, UN Cmn. Trade & Develop, 66. Mem. N.Atlantic Coun. U.S.A.A.F; Distinguished Flying Cross, 44. Econ. Asn; Economet. Soc. Economic policy, in particular problems of welfare, poverty, transportation and urban development; problems of war and peace, international problems. Publ: Co-auth, Economic value of the United States Merchant Marine; auth, Empirical determination of a multidimensional marginal cost function, Econometrica; Mechanics of some limited disarmament measures, Am. Econ. Rev. Address: 7902 Park Overlook Dr, Bethesda, Md. 20034.

FERGUSON, PROF. CHARLES E, b. Nashville, Ark, Sept. 7, 28; m. 51. ECONOMICS. A.B, Hendrix Col, 49; M.A, North Carolina, 51, Ph.D.(econ), 57. Asst. prof. ECON, Duke, 57-60, assoc. prof, 60-62, PROF, 62-67; MICH. STATE, 67- Ford Found. faculty res. fel, 61-62; Nat. Sci. Found. res. fel, 64-65; Soc. Sci. Res. Coun. res. fel, 66. Consult, Off. Ord. Res, 57; cmt. adv. tests, Grad. Record Exam, 67- Mem. cmt. econ. res. south, Inter-Univ, 63. U.S.A, 52-54. Econ. Asn; Economet. Soc; fel. Statist. Asn; Royal Econ. Soc. Macroeconomic theories of production, distribution, capital and growth. Publ: Macroeconomic theory of workable competition, Duke, 64; Microeconomic theory, Irwin, 66; Production prices, and the theory of jointly-derived input demand functions, Economica, 66. Address: Dept. of Economics, Michigan State University, East Lansing, Mich. 48823.

FERGUSON, DR. C(HARLES) K(ASREAL), Psychol, see 10th ed, Soc. & Behav. Vols.

FERGUSON, DR. DONALD C(HARLES), b. Hamilton, Ont, July 29, 30; m. 57. MEDICAL PSYCHOLOGY. B.S, Illinois, 55; M.S, Pittsburgh, 59, Ph.D.(clin. psychol), 61; M.P.H, Hopkins, 64. Jr. intern clin. psychol, Staunton Clin, Pittsburgh, 58-59; sr. intern, West. Psychiat. Inst, 59-60; asst. prof. clin. psychol. & clin. psychologist, counseling center, West Virginia, 61-62, dir, 62-63; fel. pub. health, HOPKINS, 63-65, lectr. int. health, sch. hyg. & pub. health, 64-66, ASST. PROF. & ASSOC. DIR. MED. PSYCHOL, SCH. MED, 65-, INT. HEALTH, SCH. HYG. & PUB. HEALTH, 66-, BEHAV. SCI, 67- Iran Found. traveling fel, 66. Consult. psychologist, Wheeling Children & Family Serv, 60-; consult, adv. serv. ed. & training, Am. Psychol. Asn, 66-; adv. to chancellor, Jundi Shapur Univ, 68- Psychol. Asn; Sociol. Asn. Application of behavioral science to problems in medicine and public health; planned change. Publ: Operant conditioning of hostile verbs in relation to subject and experimenter characteristics, J. Consult. Psychol, 24: 324-327; Behavior disruption of Cebus monkeys as a function of injected blood substances, Science, 139: 1281-1282; The Indian medical graduate in America, J. Indian Med. Asn, 48: 291-298. Address: Division of Medical Psychology, Johns Hopkins School of Medicine, Baltimore, Md. 21205.

FERGUSON, PROF. ELIZABETH A(LICE), b. New Haven, Conn, May 14, 13. SOCIOLOGY. A.B, Vassar Col, 33; A.M, Yale, 36, Ph.D, 47; M.S.S, Smith Col, 55. Assoc. prof. SOCIOL, SKIDMORE COL, 43-57, PROF, 57- Ford Faculty fel, 54-55. Primitive medicine; social work; theory and practice of medicine among preliterate peoples. Publ: Social work: an introduction, Lippincott, 63. Address: Dept. of Sociology, Skidmore College, Saratoga Springs, N.Y. 12866.

FERGUSON, DR. EVA D(REIKURS), b. Vienna, Austria, Aug. 28, 29; nat; m. 50; c. 4. PSYCHOLOGY. B.A, Illinois, 50; M.A, Melbourne, Australia, 53; U.S. Pub. Health Serv. fel, Northwestern, 53-56, Ph.D.(psychol), 56. Instr. psychol, Melbourne, 52-53; therapist, Ill, 53-56; fel, West. Psychiat. Inst, Univ. Pittsburgh, 56-59; staff psychologist, Craig House for Children, Pittsburgh, 59-62; lectr. PSYCHOL, Melbourne, 62-65; ASSOC. PROF. & COORDINATOR PSYCHOL. LABS, SOUTHERN ILLINOIS, 65- Intern, Neuropsychiat. Inst, 54-55; instr, exten. div, Pa. State, 58-61. AAAS; Psychol. Asn. Personality theory; experimental study of motivation; goal-directed behavior; experimental study of learning. Publ: Evaluation of two types of kindergarten attendance programs, J. Ed. Psychol; Effects of sibling competition and alliance on level of aspiration, expectation and performance & Ego-involvement: a critical examination of some methodological issues, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, Southern Illinois University, Edwardsville, Ill. 62025.

FERGUSON, PROF. GEORGE A(NDREW), b. N.S, July 23, 14; m. 42; c. 2. PSYCHOLOGY. B.A, Dalhousie, 36, dipl, 37; B.Ed, Edinburgh, 38, Ph.D. (psychol), 40. Demonstr. psychol, Edinburgh, 38-39; lectr. ed, Toronto, 40-41, consult. psychologist, Stevenson & Kellogg, Ltd, Que, 45-47; asst. prof. PSYCHOL, McGILL, 47-48, assoc. prof, 48-50, PROF, 50-, CHMN. DEPT, 63-, V.DEAN BIOL. SCI, 66- Consult, UNESCO, 55-56. Can. Army, 41-45, Maj. Psychol. Asn; Statist. Asn; Psychomet. Soc; fel. Can. Psychol. Asn. (pres, 55); fel. Royal Soc. Can; Brit. Psychol. Soc. Statistical method in psychology; theory of mental measurement; personnel selection procedures. Publ: Statistical analysis in psychology and education, McGraw, 2nd ed, 66. Address: Dept. of Psychology, McGill University, Montreal, Que, Can.

FERGUSON, GLENN WALKER, b. Syracuse, N.Y, Jan. 28, 29; m. 50; c. 3. PUBLIC ADMINISTRATION. B.A, Cornell, 50, M.B.A, 51; Georgetown, 51-52; Univ. Santo Tomas, Philippines, 52-53; George Washington, 53-55; Chicago, 55-56; LL.B, Pittsburgh, 57. Staff assoc, Govt. Affairs Inst, D.C, 54-55; asst. secy-treas. & asst. ed, Am. Judicature Soc, Ill, 55-56; admin. asst. to chancellor, assoc. dir. coordinated ed. center & asst. dean grad. sch. pub. & int. affairs, Pittsburg, 56-60, asst. prof, 57-60; mgt. consult, McKinsey & Co, D.C, 60-61; dir. for Thailand, assoc. dir, D.C. & spec. asst. to dir, Peace Corps, 61-64; dir, VISTA, 64-66; AMBASSADOR TO KENYA, 66- Consult, Int. Coop. Admin, Pakistan, 59; NASA, D.C, 61. U.S.A.F, 51-53, 1st Lt. Polit. Sci. Asn; Soc. Pub. Admin; Fed. Bar Asn. Public, business, international and judicial administration. Publ: Contrib. to Am. Bar Asn. J, J. Legal Ed. & Town & Country Planning. Address: American Embassy, Nairobi, Kenya.

FERGUSON, DR. HENRY, Asian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FERGUSON, HOWARD, b. Bartlett, Tex, Dec. 10, 03; m. 40. PUBLIC ADMINISTRATION. B.B.A, Texas, 25; M.S, Syracuse, 27. Intern, City of Ft. Worth, Tex, 27-28, asst. dir. health & welfare, 28-29; exec. secy, Good Govt. League, 29-30; pub. admin. & mgt. consult, Griffenhagen & Assocs, 30-57, dir. assoc, 50-57; consult. res. procedure, Ohio Legis. Serv. Cmn, 58-59; PRIN. CONSULT. MGT. & PUB. ADMIN, J.L. JACOBS & CO, 59- Mgt. consult, City Chicago, 59-; City Davenport, Iowa, 62-65; Outagamie County, Wis, 64-65, McLean County, Ill, 65; & Ozaukee County, Wis, 65-67; Joint City Unification Cmt, Ill, 64-; City Norfolk, Va, 66-67; Contra Costa County, Calif, 67, Hamilton County & Chattanooga, Tenn, 67-68. Soc. Pub. Admin; Polit. Sci. Asn; Govt. Res. Asn. Functions, organization, management and financing of state and local governments; interrelationships of governments; suburban government. Address: P.O. Box 568, Evanston, Ill. 60204.

FERGUSON, DR. IRA LUNAN, Prev. Med, Pub. Health, see 11th ed, Phys. & Biol. Vols.

FERGUSON, DR. JAMES M(ILTON), b. Evanston, Ill, May 19, 36; m. 61. ECONOMICS. A.B, Stanford, 58; Ph.D, Chicago, 62. Asst. prof. econ, Virginia, 61-64, ASSOC. PROF, 64-65; BUS, ROCHESTER, 65- Law and econ. fel, Chicago Law Sch, 65-66. Ford Found. Dissertation award, 63. Econ. Asn. Pricing policies in the communications industry; advertising and entry; economics of resale price maintenance. Publ: The advertising rate structure in the daily newspaper industry, Prentice-Hall, 63; Tying arrangements and reciprocity: an economic analysis, Law & Contemporary Probs, 65; Advertising and liquor, J. Bus, 67. Address: College of Business, University of Rochester, Rochester, N.Y. 14627.

FERGUSON, PROF. JOHN B(ODLEY), b. Los Angeles, Calif, Nov. 6, 11; m. 43; c. 2. INDUSTRIAL RELATIONS. A.B, Stanford, 33, M.B.A, 35; Ph.D, Cornell, 60. Invest. analyst, E.F. Hutton & Co, 35-39; systs. engr, Int. Bus. Mach. Corp, 39-42; dir. indust. rel, Coca-Cola Bottling Co, 46; from assoc. prof. to PROF. ECON. & BUS, HAWAII, 49- U.S.A, 42-46. Industrial relations. Publ: Substitutes for the strike, an appraisal; co-auth, Labor, trade and unionism and the competitive menace in Hawaii. Address: Dept. of Economics & Business, University of Hawaii, Honolulu, Hawaii 96822.

FERGUSON, DR. JOHN D, b. Saskatoon, Sask, Aug. 20, 29; m. 58. SOCIOLOGY, ANTHROPOLOGY. B.A, Toronto, 53, M.A, 56; Ph.D.(sociol), Columbia, 66. Field anthropologist, dept. north. affairs, Govt. Can, 56-58; res. asst. SOCIOL, bur. appl. soc. res, Columbia, 59-61, proj. dir, 62-64; asst. prof, Northeastern, 66-68; ASSOC. PROF, WINDSOR, 68- U.S. Dept. Labor res. grant, 67-68. Can. Army, Lt. Anthrop. Asn; Ethnol. Soc; Asn. Appl. Anthrop; Sociol. Asn. Methodology and particularly computer simulation; Eskimos in arctic areas; career aspirations of working class men in modern American society. Publ: Human ecology and socio-economic development in the community of Tuktoyaktuk, N.W.T, Govt. Can, 61; co-auth, Social science information services: progress report on a survey, Am. Behav. Scientist, 6/64. Address: 8162 E. Jefferson, Detroit, Mich. 48214.

FERGUSON, PROF. JOHN H(ENRY), b. Lexington, Nebr, Aug. 22, 07; m. 30; c. 4. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Nebr. Cent. Col, 29; A.M, Pennsylvania, 32, Ph.D, 37. Instr. POLIT. SCI, PA. STATE, 34-37, asst. prof, 37-41, assoc. prof, 41-47, prof, 47-67, EMER. PROF, 67-, dir. inst. pub. admin, 59-65, head dept. polit. sci, 47-48, 63-65, admin. dir. soc. sci. res. center, 53-55. Dean sch. politics, New Sch. Soc. Res, 48-49;

dir. prog. eval, Off. of Gov. Pa, 55-56, secy admin, 56-59, budget secy, 57-59; vis. prof. Fels. Inst. Local & State Govt, Pennsylvania, 66-68. Summer vis. prof, Nebraska, 48. Pres, Better Govt. Assocs, 67- Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. National, state and local government; public administration; foreign relations. Publ: American diplomacy and the Boer War; co-auth, Municipally owned electric plants in Pennsylvania, and the American system of government, 9th ed, 67. Address: 555 W. Ridge Ave, State College, Pa. 16801.

FERGUSON, DR. KINGSLEY G(EORGE), b. Newcastle, Eng, Apr. 13, 21. CLINICAL PSYCHOLOGY. B.A, Western Ontario, 43; M.A, Toronto, 50, Ph.D.(psychol), 56. SR. PSYCHOLOGIST, Can. Dept. Vet. Affairs, Westminster Hosp, London, Ont, 51-61; MONTREAL GEN. HOSP, 61- Lectr. Western Ontario, 51-61; McGill, 65- Dipl. Am. Bd. Exam. Prfnl. Psychol, 61. R.C.N, 43-45. Psychol. Asn; Can. Psychol. Asn. Psychosomatic dermatology; psychotherapy; verbal interaction research. Address: Montreal General Hospital, Montreal 25, P.Q, Can.

FERGUSON, PROF. LEONARD W(ILTON), b. Turlock, Calif, Mar. 2, 12; m. 39; c. 3. PSYCHOLOGY. A.B, Stanford, 33, M.A, 35, Ph.D.(psychol), 42. Instr. psychol, Connecticut, 39-42, asst. prof, 42-43; asst. staff supvr, Metrop. Life Ins. Co, 43-51; res. asst, Aetna Life Ins. Co, 51-53; res. assoc, Life Ins. Agency Mgt. Asn, 53-55, prog. dir, 56-64; ed, The J. Press, Provincetown, Mass, 64-65; PROF. PSYCHOL, OHIO, 66- Psychol. Asn. Social, industrial and applied psychology. Publ: Ed, Clerical salary administration; Personality measurement. Address: Dept. of Psychology, Ohio University, Athens, Ohio 45701.

FERGUSON, PROF. LeROY C(RAIG), b. Rhea Springs, Tenn, Sept. 20, 18. POLITICAL SCIENCE. A.B, Miami (Ohio), 37; B.S. & A.M, Ohio State, 39, univ. scholar, 39-40, Ph.D, 47. Asst, Ohio State, 40-41; instr, Fla. State Col. for Women, 41-42; asst. prof, Bowling Green State, 42-43; instr, Northwestern, 43-45; asst. prof. POLIT. SCI, MICH. STATE, 45-48, assoc. prof, 48-55, PROF, 55- Adv, Univ. Nigeria, 60-62; Fulbright lectr, Florence, 63-64. Polit. Sci. Asn. Quakerism and politics; legislative processes; Quakers in Midwestern and American politics; political socialization. Publ: Co-auth, Politics in the press, Mich. State Univ. Govt. Res. Bur, 54 & The legislative system, Wiley, 62. Address: Dept. of Political Science, Michigan State University, East Lansing, Mich. 48823.

FERGUSON, DR. LUCY RAU, b. Paris, France, July 1, 30; nat. PSYCHOLOGY. Amy Bowles Johnson fel, California, 52-53, McEnerny fel, 53-54, Ph.D.(psychol), 57. Trainee clin. psychol, Vet. Admin, 53-54; chief clin. psychologist, Children's Hosp. E. Bay, Oakland, Calif, 55-56; asst. prof. PSYCHOL, Stanford, 56-63; assoc. prof, MICH. STATE, 63-68, PROF, 68- Consult, Vet. Admin, 58; San Mateo County Ment. Health Serv, 57. Dipl, Am. Bd. Exam. Prfnl. Psychol, 65. Psychol. Asn; Soc. Res. Child Develop; Orthopsychiat. Asn. Personality development; differential development of cognitive abilities; antecedents; treatment of childhood behavior pathology. Publ: Co-auth, Identification and child rearing, Stanford Univ, 65; Parental attitudes associated with social durance in pre-adolescent boys, J. Abnormal & Soc. Psychol, 62; auth, Interpersonal correlates of differential abilities, Child Development, 66. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

FERGUSON, DR. MARIE A, b. Wichita, Kans, Sept. 25, 08. PSYCHOLOGY. A.B, Friends, 37; B.D, Hartford Theol. Sem, 47; fel, Merrill-Palmer Inst, 58-59; Ph.D.(counseling), Mich. State, 61. ASST. PROF. PSYCHOL. & COUNSR, ILLINOIS, CHICAGO, 61- Vis. prof, Fla. State Univ. Desegregation Inst. High Sch. Counselors, 67. Psychol. Asn; Personnel & Guid. Asn. Older adults returning to college; group process, its usefulness in various school populations. Publ: Adult students in an undergraduate university, J. Col Student Personnel, 11/66. Address: Student Counseling Service, Box 4348, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

FERGUSON, DR. ROBERT G, b. Philadelphia, Pa, June 8, 11; m. 42; c. 3. PSYCHOLOGY. M.A, Pennsylvania, 48, Ed.D, 60. Chief psychologist, dir. ed, personnel & servs, Devereux Schs, 47-54; exec. dir, Phila. Cmn. Ment. Retarded, 55-56; res. dir, MacDonald Training Center, 56-60; DIR, DEVEREUX SCHS, CALIF, 60- U.S.A, 42-46, Lt. Psychol. Asn; Orthopsychiat. Asn; Asn. Ment. Deficiency. Educational and emotional problems of children; personnel evaluation and training. Publ: A study of the problem of mental retardation in a large urban area, Am. J. Orthopsychiat; Evaluating vocational aptitudes and characteristics of mentally retarded young adults in an industrial-agricultural workshop, Am. J. Ment. Deficiency; Evaluation and rehabilitation of mentally retarded youth in a sheltered workshop, Rehab. Record. Address: Devereux Schools, Santa Barbara, Calif. 93102.

FERGUSON, PROF. ROBERT H(ARRY), b. Auburn, N.Y, Feb. 14, 17. INDUSTRIAL & LABOR RELATIONS. A.B, Union Col.(N.Y), 38; A.M, Brown, 40; Ph.D, Cornell, 48. Asst. prof. INDUST. & LABOR RELS, STATE UNIV. N.Y. SCH. INDUST. & LABOR RELS, CORNELL, 48-50, assoc. prof, 50-57, PROF, 57-; ED, INDUST. & LABOR RELS. REV, 65- Fulbright lectr, Leicester, 61-62; sr. res. economist, Int. Labour Off, 67-68. Ed, Indust. & Labor Rels. Rev, 65- U.S.A.A.F, 42-45, Lt. Econ. Asn; Indust. Rels. Res. Asn. Labor relations, wage and employment problems; business history; American way of life. Address: School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

FERGUSON, DR. YALE HICKS, b. Austin, Tex, May 28, 40; m. 61; c. 1. POLITICAL SCIENCE. B.A, Trinity, 60; Texas, 57-58, Woodrow Wilson fel, 60-61; Edward John Noble fels, Int. Rels. scholarship & Woodrow Wilson fel, Columbia, 61-67, Ph.D.(polit. sci), 67. Lectr. POLIT. SCI, Brooklyn Col, 65-66; instr. RUTGERS, 66-67, ASST. PROF, 67- Polit. Sci. Asn; Latin Am. Studies Asn. Inter-American relations, expecially United States Latin American policy; Organization of American States; international organizations and integration in the western hemisphere. Address: Dept. of Political Science, Rutgers, The State University, Newark, N.J. 07102.

FERKISS, PROF. VICTOR C(HRISTOPHER), b. New York, N.Y, Aug. 2, 25; m. 48. POLITICAL SCIENCE. A.B, California, 48, A.M, 49; M.A, Yale, 50; Ph.D.(polit. sci), Chicago, 54. Asst. prof. polit. sci, Mont. State, 54-55; St. Mary's Col.(Calif), 55-60, assoc. prof, 60-62; vis. assoc. prof. GOVT, GEORGETOWN, 62-66, PROF, 66- Rockefeller Found. fel, 58-59; field dir, Africa Training Prog, Int. Coop. Admin, 59-60. U.S.A, 43-46, 51-52, Maj. AAAS; Polit. Sci. Asn; Soc. Polit. & Legal Philos; Soc. Pub. Admin; African Studies Asn. Africa; political theory; international relations. Publ: Communism today: belief and practice; Africa's search for identity, Braziller, 66; Populist influences on American fascism, West. Polit. Quart. Address: Dept. of Government, Georgetown University, Washington, D.C. 20007.

FERNALD, DR. L(LOYD) DODGE, JR, b. Springfield, Mass, Nov. 19, 29; m. 55; c. 4. PSYCHOLOGY. B.A, Amherst Col, 52; Ed.M, Harvard, 57; Ph.D.(psychol), Cornell, 61. Intern clin. psychol, Devereux Found, 60-61; instr. psychol, Bowdoin Col, 61-62, asst. prof, 62-64, assoc. prof. & chmn. dept, 64-67; vis. prof, Cornell, 65-66, acting assoc. prof. ed. psychol, 67-68; FULBRIGHT LECTR, UNIV. MADRID, 68- U.S.N, 52-56, Lt.(jg). Psychol. Asn. Learning; personal adjustment; teaching of general psychology. Publ: Experiments and studies in general psychology, 65, co-auth, Overview of general psychology, 66 & Introduction to psychology, 2nd ed, (in press), Houghton. Address: 54 Fairview Square, Ithaca, N.Y. 14850.

FERNANDEZ, DR. FRANK, b. New York, N.Y, Mar. 10, 31; m. 50; c. 7. ANTHROPOLOGY. B.A, City Col. New York, 60; M.A, North Carolina, 63, Ph.D.(anthrop), 68. Acting asst. prof. ANTHROP, California, Santa Barbara, 64-66; ASST. PROF, BROWN, 66- Anthrop. Asn; Ethnol. Soc; Ling. Soc. Tribal and peasant cultures of India, especially social, economic, and political structures; Puerto Rican spiritism; descriptive linguistics, particularly Munda languages of east-central Indian tribals; language and culture. Address: Dept. of Sociology & Anthropology, Brown University, Providence, R.I. 02912.

FERNANDEZ, DR. JAMES WILLIAM, b. Chicago, Ill, Nov. 27, 30; m. 58; c. 2. ANTHROPOLOGY. B.A, Amherst Col, 52; Madrid, 54-55; Ph.D.(philos-anthrop), Northwestern, 62. Res. asst. ANTHROP, Northwestern, 56-58; Ford Found. res. fel, 58-61; instr, Smith Col, 61-63, asst. prof, 63-64; ASSOC. PROF, DARTMOUTH COL, 64- Soc. Sci. Res. Coun-Am. Coun. Learned Socs. African res. fel, 65-66. Consult-lectr, Peace Corps Training Progs, 62-; For. Serv. Inst, 64- Fel. Anthrop. Asn; fel. African Studies Asn. Religious cosmology and symbolic interactionism; cognition and behavior; cultural anthropology. Publ: African religious movements—types and dynamics, J. Mod. African Studies, 12/64; Symbolic concensus in a FANG reformative cult, Am. Anthropologist, 8/65; Unbelievably subtle words—representation and integration in the sermons of an African syncretist cult, J. Hist. Relig, 8/66. Address: 14 Mitchell Lane, Hanover, N.H. 03755.

FERNANDEZ, DR. JULIO ANTONIO, b. Belize, Brit. Honduras, July 27, 36; U.S. citizen; m. 62. POLITICAL SCIENCE. B.A, San Diego State Col, 63, M.A, 64; Haynes fel, California, Santa Barbara, 64-65, univ. fels, 65-67, Orgn. Am. States fel, 66, Ph.D.(polit. sci), 67. Lectr. POLIT. SCI, California, Santa Barbara, 67; ASST. PROF, COLORADO, 67- U.S.A.F, 56-60. Polit. Sci. Asn. Latin America, especially Argentina and Mexico. Publ: The nationalism syndrome in Argentina, J. Inter-Am. Studies, 10/66. Address: 505 Harvard Lane, Apt. 5B, Boulder, Colo. 80302.

FERNANDEZ-MARINA, DR. R(AMON), b. San Juan, P.R, Sept. 16, 09; m. 41; c. 1. PSYCHOANALYSIS. B.S, Madrid, 31, M.D, 33; Dipl, Wash. Sch. Psychiat, 47. Med. dir, Munic. Hosp, Ponce, P.R, 33-36; private practice, San Juan, 37-39; chief med. servs, Bayamon Dist. Hosp, 39-43, med. dir, 43-45; med. dir, P.R. Insular Psychiat. Hosp, 47-52; MED. DIR, HATO TEJAS HOSP, BAYAMON, 52-; CLIN. DIR, P.R. INST. PSYCHIAT, 57- Lectr. psychiat, Puerto Rico, 48-50. Civilian med. dir, Roosevelt Rds. Naval Base, 41-43. Dipl, Am. Bd. Psychiat. & Neurol, 54; cert, Ment. Hosp. Admin, 56. Fel. AAAS; Psychiat. Asn; Psychoanal Asn; fel. Acad. Psychoanal. Dynamics of Puerto Rico personality. Publ: The horizons of the mind, Philos. Library, 64. Address: 404 Professional Bldg, Santurce, P.R.

FERNÁNDEZ-MÉNDEZ, PROF. EUGENIO, b. Cayey, P.R, July 11, 24; m. 44; c. 1. ANTHROPOLOGY. B.A, Puerto Rico, 47; Columbia, 49-51. ASSOC. PROF. ANTHROP, PUERTO RICO, 49-, DIR. UNIV. PRESS, 59- Pres, P.R. Inst. Culture, 55- Fel. Anthrop. Asn. Circum-Caribbean culture history. Publ: La identidad y la cultura; Ensayos de anthropologia popular; conceptos fundamentales de anthropologia física, 65. Address: Dept. of Social Sciences, University of Puerto Rico, Rio Piedras, P.R. 00927.

FERNBACH, PROF. ALFRED (PHILLIP), b. New Rochelle, N.Y, July 30, 15; m. 41; c. 1. POLITICAL SCIENCE. Ph.B, Wisconsin, 36, fel, 39-40, Ph.D. (polit. sci), 41. Teaching asst. polit. sci, Wisconsin, 38-40; instr, Virginia, 41-44; guest, Wisconsin, 44-45, 47; asst. prof. polit. sci. & for. affairs, VIRGINIA, 45-50, assoc. prof. for. affairs, 50-62, PROF. GOVT. & FOR. AFFAIRS, 62-, GRAD. ADV, 67- Instr, sch. mil. govt, U.S. Dept. Army, 45-46; Fulbright Found. res. scholar, Norway, 50-51, Fulbright Found. lectr, India, 61-62. Mediator, State Labor Rel. Bd, Wis, 38-39; part time. consult, Nat. Sci. Found, 66- Mem. standing cmt, Woodrow Wilson Sch. For. Affairs, 48-49. Polit. Sci. Asn; Asn. Asian Studies; Int. Studies Asn. Theory of international relations; international organizations; South Asia in world affairs. Publ: Soviet coexistence strategy: a case study of experience in the I.L.O; Power of the United Nations to settle disputes, In: Developing law of United Nations, Va. Law Weekly, 62; Some basic trends in international relations, Kautilya: A Rev. Int. Affairs, India, 62. Address: Dept. of Government & Foreign Affairs, 232 Cabell Hall, University of Virginia, Charlottesville, Va. 22901.

FERNEA, DR. ROBERT A(LAN), b. Vancouver, Wash, Jan. 25, 32; m. 56; c. 3. SOCIAL ANTHROPOLOGY. A.B, Reed Col, 54; Danforth, Nat. Sci. Found. & univ. fels. & Ph.D.(anthrop), Chicago, 59. Asst. prof. anthrop. & res. assoc, soc. res. center, American Univ. Cairo, 59-65; fel, Center Middle East. Studies, Harvard, 65-66; ASSOC. PROF. ANTHROP. & DIR. MIDDLE EAST CENTER, TEXAS, AUSTIN, 66- Dir, Nubian Ethnol. Surv, 60-; Fulbright-Hays faculty fel, Afghanistan, summer 67. Consult, Egypt, Saudi Arabia, Iraq & Afghanistan. Fel. Anthrop. Asn; fel. Mid. East Studies; Asn. N.Am. General anthropology; ethnohistory of the Near East; resettlement and ur-

banization. Publ: Ed, Symposium on contemporary Egyptian Nubia, HRAF Press, 67. Address: Middle East Center, University of Texas, Austin, Tex. 78712.

FERNITZ, DR. HENRIETTA HARRIET, b. Chicago, Ill, Apr. 28, 01. POLITICAL SCIENCE. B.S, Northwestern, 34, M.A, 36, Ph.D, 43. Prof. polit. sci, Chicago State Col, 40-66. Mem. faculty, pub. schs, 21-; lectr, Chicago Teachers Rev. Sch, 46-56. Mem. Nat. Coun. Soc. Studies. Polit. Sci. Asn; Hist. Asn. American government; international relations and law. Address: 6181 N. Winchester Ave, Chicago, Ill. 60626.

FERNSTROM, JOHN RICHARD, b. Vallejo, Calif, Aug. 31, 20; m. 45; c. 3. GEOGRAPHY. A.B, California, 50; M.A, Maryland, 56. Asst. prof. econ. geog, Georgetown, 51-59; assoc. prof, Maryland, 59-61; dep. dir. northeast. div, area redevelop. admin, U.S. Dept. Commerce, 61; dir. res. econ. develop, Tidewater Va. Develop. Coun, 61-62; chief br. indust. develop, Bur. Indian Affairs, Dept. Interior, 62-64; asst. cmnr. prog. develop, community facilities admin, Housing & Home Finance Agency, 64-65; PROG. ASST. TO ADMINSTR, JOBS & INDUSTRIALIZATION, RURAL COMMUNITY DEVELOP. SERV, U.S. DEPT. AGR, 65- Prog. officer, U.S. Dept. Commerce, 59-60. Consult, res. proj, Georgetown, 53-59. Mem, Indust. Develop. Coun. U.S.A.A.F, 40-45, Sgt. Asn. Am. Geog. Anthropogeography; regional and economic geography, especially industrial location; military geography; state and community economic development. Publ: Co-auth, Principles of political geography; auth, Future development of the San Francisco Bay area; Community attack on chronic unemployment; Hazleton, Pennsylvania. Address: 5222 Colony Rd, Oxon Hill, Md. 20021.

FERRARI, DR. J(OHN) ROBERT, b. Kulpmont, Pa, Dec. 21, 35; m. 61; c. 2. ACTUARIAL SCIENCE. B.S, Pa. State, 57; M.B.A, Pennsylvania, 62, Ph.D. (econ), 64. ASST. PROF. INS, PENNSYLVANIA, 64- Consult, Int. Bus. Mach, 63-64; Prudential Life Ins. Co, 65-66; U.S. Dept. Housing & Urban Develop, 66; Phila. Chamber of Commerce, 66; Inst. Environ. Studies, Pennsylvania, 66-67; ins. adv. panel, Presidential Cmn. Civil Disorders, 67. U.S.N, 57-60, Lt.(jg). Casualty Actuarial Soc. Computer applications for insurance company operations and investment strategy; cost of life insurance and the role of life insurance in personal finance. Publ: Co-auth, Life insurance and/or mutual funds, Pageant, 67; The private insurance of home mortgages, Inst. Environ. Studies, Univ. Pennsylvania, 67; auth, A theoretical portfolio selection approach for insuring property and liability lines, Proc. Casualty Actuarial Soc, 67. Address: Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

FERRARO, DR. CHARLES D, b. Cleveland, Ohio, Apr. 12, 13; m. 39; c. 2. PSYCHOLOGY. A.B, Ohio, 36; B.S, Western Reserve, 38, M.A, 53, Ph.D, 57. Asst. dir. psychol. servs, John Carroll, 49-51; PLACEMENT OFFICER, LEWIS RES. CENTER, NASA, 51- Lectr, eve. col. & grad. sch, John Carroll, 50- Psychol. Asn; Personnel & Guid. Asn. Publ: Co-auth, Sources of tension in married and single women teachers of different ages, J. Ed. Psychol. Address: 22011 River Oaks Dr, Rocky River, Ohio 44116.

FERRARO, DR. DOUGLAS P(ETER), b. White Plains, N.Y, Nov. 27, 39; m. 60; c. 2. PSYCHOLOGY. A.B, Columbia, 61, M.A, 63, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, NEW MEXICO, 65- Nat. Sci. Found.res. grant, 66-72. Psychol. Asn. Punishment; learning; motivation. Publ: Co-auth, Sequential response effects, J. Exp. Anal. Behav, 65 & Adaptation of cardiac rate, J. Comp. & Physiol. Psychol, 65; auth, Punishment suppression under schedules of punishment, J. Comp. & Physiol. Psychol, 67. Address: Dept. of Psychology, University of New Mexico, Albuquerque, N.Mex. 87106.

FERRELL, PRES. GUY V(ERNON), b. Bertrand, Mo, June 17, 20; m. 44; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Southeast. Mo. State, 43; M.A, Peabody Col, 47, Ph.D.(psychol, ed), 51. Instr. psychol, Murray State Col, 46; asst. prof. ed. & psychol, Middle Tenn. State Col, 47-50; prof. psychol, Detroit Inst. Tech, 51-56, dean col. arts & sci, 52-56, dir. student personnel, 51-52; dir. res, Patterson State Col, 56-57; acting supt. schs, Tenafly, N.J, 58-59; state dir. Community & Two Year Col. Ed, N.J, 59-67; PRES, LUZERNE COUNTY COMMUNITY COL, 67- Asst, exten, Peabody Col, 47-51. U.S.N, 42-45, Lt.(jg). Psychol. Asn; Personnel & Guid. Asn; Asn. Ment. Deficiency. Vocational counseling; educational measurement. Publ: Comparative analysis of certain internal factors related to holding power; Education beyond high school: the two-year community college; Comparative study of sex differences in school achievement, J. Ed. Res. Address: Woodcliff Rd, New Goss Manor, Dallas, Pa. 18612.

FERRIER, DR. WALLACE T(HOMAS), Econ, see 10th ed, Soc. & Behav. Vols.

FERRING, DR. ROBERT L(EO), b. Waukon, Iowa, Oct. 12, 24. POLITICAL SCIENCE. B.A, Loras Col, 46; M.A, Notre Dame, 55, Ph.D, 59. Asst. prof. POLIT. SCI, LORAS COL, 58-68, ASSOC. PROF. & HONORS DIR, 67- Vis. prof, Dubuque, summer, 67. Polit. Sci. Asn. Publ: Christopher Varsevicius: Polish renaissance diplomat, statesman and political writer, Polish Rev. Address: Dept. of Political Science, Loras College, Dubuque, Iowa 52001.

FERRIS, GEORGE EMERY, b. Budapest, Hungary, Feb. 21, 24; m. 54; c. 4. MATHEMATICAL STATISTICS, MARKETING. B.Sc, Sydney, 45, M.Sc, 47; B.Sc, Adelaide, 46; M.A, Columbia, 52; Cornell, 55-56. Math. statistician, Commonwealth Sci. & Indust. Res. Orgn, Australia, 45-50; lectr. math. statist, New South Wales, 50-54; asst. statist, biomet. unit, plant breeding dept, Cornell, 55-56; biometrician, Minute Maid Corp, 56, assoc. technologist & proj. leader statist, prod. eval. dept, res. center, Gen. Foods Corp, 56-58, staff statistician, post cereals div, 58-59, mkt. res. assoc. statist. & mkt. res, corporate mkt. res. dept, 59-66; dir. res. develop, res. & info. serv, Sullivan Stauffer Colwell & Boyles, N.Y, 66-67; ASSOC. DIR. RES, TRAVELERS INS. CO, 67- Lectr, Walter Hervey Jr. Col, 52; Adelphi Col, 53; prof, Hartford Grad. Center, Rensselaer Polytech, 67- Consult, med. genetics dept, Presby. Med. Center, N.Y, 52. Mkt. Asn; Inst. Math. Statist; Inst. Mgt. Sci; Biomet. Soc.(East N.Am. region). Biometrics; psychometrics; taste and consumer testing; Markov chains in brandswitching; test marketing; sales forecasting; advertising effectiveness studies; media research. Publ: Modified latin square design & New model in consumer testing, Food Res; K-visit method of consumer testing, Biometrics. Address: Ninth Floor M.S, Research Dept, Travelers Insurance Co, One Tower Square, Hartford, Conn. 06115.

FERRIS, DR. JOHN NELSON, b. Milton, Ind, Nov. 14, 29. AGRICULTURAL MARKETING. B.S, Purdue, 51; M.S, Cornell, 52; Ph.D, Mich. State, 60- Instr. AGR. ECON, MICH. STATE, 57-60, asst. prof, 60-65, ASSOC. PROF, 65- U.S.A, 53-55. Agr. Econ. Asn. Analysis of demand and supply of agricultural products for prediction purposes; price analysis; development of long range projections of economic variables. Publ: Livestock outlook, Nat. Live Stock Prod; Outlook at a glance, Mich. Farmer. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

FERRISS, DR. ABBOTT L(AMOYNE), b. Jonestown, Miss, Jan. 31, 15; m. 40; c. 2. SOCIOLOGY. B.J, Missouri, 37; Miss. State Col, 39-41; summer, Furman, 41; A.M, North Carolina, 43, Ph.D, 50. Asst. prof. sociol, Vanderbilt, 49-51; res. soc. scientist, human resources res. inst, Air Univ, 51-54; chief, unit effectiveness br, organizational effectiveness br. & syst. application br, Air Force Personnel & Training Res. Center, Tex, 54-57; chief, health statist. br, pop. div, U.S. Bur. Census, 57-59; supvry. surv. statistician, Outdoor Recreation Resources Rev. Cmn, 59-62; div. sci. personnel & training, Nat. Sci. Found, 62-64, assoc. study dir, sci. ed. studies group, off. econ. & manpower studies, 64-67; RES. SOCIOLOGIST, SOC. INDICATORS, RUSSELL SAGE FOUND, 67- Lectr, George Washington, 58-59; Maryland, 59-61; North. Va. Center, Univ. Virginia, 60- Consult, off. sci. res, U.S. Dept. Air Force, 60-61. U.S.A.A.F, 43-46. AAAS; Sociol. Asn; Statist. Asn; Pop. Asn; Sociol. Res. Asn; Ed. Res. Asn. Educational statistics. Publ: Co-auth, Reducing traffic accidents by use of group discussion-decision; auth, Sociological manpower, Am. Sociol. Rev. & Predicting graduate student migration, Soc. Forces. Address: 2307 Valley Dr, Alexandria, Va. 22302.

FERRITOR, DANIEL EDWARD, b. Kansas City, Mo, Nov. 8, 39; m. 62; c. 2. SOCIOLOGY. B.A, Rockhurst Col, 62; M.A, Washington (St. Louis), 67. Asst. prof. sociol, Arkansas, 67-68; ASSOC. DIR. SOC. EXCHANGE LABS, WASHINGTON (ST. LOUIS), 68- Consult, Ark. Regional Med. Prog, 68- U.S.A.F.R, 57-65. Sociol. Asn. Family disorganization, especially families with psychotic children. Address: Dept. of Sociology, Washington University, St. Louis, Mo. 63130.

FERRON, DR. ALFRED L(EWIS), b. Baltimore, Md, Sept. 2, 25. SOCIOLOGY. A.B, Morgan Col, 49; M.A, Iowa, 50; Ph.D.(sociol), Chicago, 59. Soc. serv. officer, Ill. State Hosp, Lincoln, 50-51; consult. community orgn, Chicago Area Proj, 51-55; instn. sociologist, Inst. Juvenile Res, Ill, 55-59; dir. res, Chicago Cmn. Youth Welfare, 59-60; community orgn. consult, 60-61; assoc. prof. sociol, Lock Haven State Col, 61-63; asst. prof, Morgan State Col, 63-68; INSTR. LAB. MICROBIOL, COMMUNITY COL. BALTIMORE, 68- Chmn. greater cities sch. improv. prog, Chicago Bd. Ed, 60-61. Consult, Caffrey Youth Serv, 51-55, mem. bd. dirs, 59-61; consult, Halfway House Cmt, Inc, 52-54. Mem, Gov. Cmn. Aging, 63-64. U.S.A.A.F, 44-46, Lt. Sociol. Asn; Asn. Appl. Anthrop; Nat. Asn. Adv. Colored People. Social organization and psychology; family relations. Publ: The Horace Chatham School: development of a residential treatment center; Nature and scope of community planning in Iowa City, Iowa; Vertical mobility: fact or fiction?, Lock Haven Bull. Series 1, No. 4, 62. Address: Route 4, Box 355, Duckett Lane, Elkridge, Md. 21227.

FERSON, DR. REGIS F(RANCIS), b. Pittsburgh, Pa, Mar. 25, 12; m. 42; c. 2. PSYCHOLOGY. B.S, Pittsburgh, 46, M.S, 48, Ph.D, 51. Voc. counsr, Vet. Admin. Guid. Center, Pittsburgh, Pa, 46-51; PSYCHOLOGIST & ASST. SUPT, WEST. PA. SCH. FOR BLIND CHILDREN, 51- U.S.A, 42-46, Lt. Psychol. Asn. Special education; vocational guidance. Publ: Prediction of success in trade training by means of standardized tests; Vocational guidance program, In: New outlook for the blind. Address: Western Pennsylvania School for Blind Children, 201 N. Bellefield Ave, Pittsburgh, Pa. 15216.

FERSTER, DR. CHARLES B(OHRIS), Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl II & IV.

FERTIG, PROF. JOHN W(ILLIAM), Biostatist, see 11th ed, Phys. & Biol. Vols.

FERTSCH, DR. PAULINE, b. Farwell, Tex, Oct. 20, 10; m. 31; c. 1. PSYCHOLOGY. B.A, Texas, 31, M.A, 32, Ph.D.(exp. psychol), 42. Instr. psychol, Texas, 42-45, asst. prof, 45-52; res. scholar, Philippines, 53-55; DIR, Manatee-Sarasota Guid. Center, 55-57; Bay County Guid. Clin, 57-63; Brevard County Ment. Health Center, 63-66; LEON COUNTY MENT. HEALTH CENTER, 66- Fulbright vis. prof, Philippine Women's Univ, 49-50. Consult, For. Opers. Admin, P.I, 54-55. Del, White House Conf. Children & Youth, 60. Psychol. Asn. Personality development; education and psychology of exceptional children; clinical psychology. Address: P.O. Box 2831, Tallahassee, Fla. 32304.

FESHBACH, MURRAY, b. New York, N.Y, Aug. 8, 29; m. 56; c. 2. ECONOMICS. A.B, Syracuse, 50; M.A, Columbia, 51; American Univ, 57-67. Asst. Soviet econ. Nat. Bur. Econ. Res, Inc, N.Y, 55-56; anal. statistician, for. manpower res. off, U.S. BUR. CENSUS, 57-67, CHIEF U.S.S.R. BR, FOR. DEMOG. ANAL. DIV, 67- U.S.A, 51-55, Sgt. Asn. Adv. Slavic Studies; Econ. Asn; Pop. Asn. Soviet economy, employment and statistical system; manpower and educational planning. Publ: Soviet statistical system: labor force record keeping and reporting since 1957, 7/62 & co-auth, Estimates and projections of educational attainment in the U.S.S.R: 1950-85, 11/67, U.S. Govt. Printing Off; auth, Manpower in the U.S.S.R, a survey of recent trends and prospects, In: New directions in the Soviet economy, Vol. III, Joint Econ. Cmt, 66. Address: Foreign Demographic Analysis Division, 24 M Annex, Dept. of Commerce, Washington, D.C. 20230.

FESHBACH, DR. NORMA DEITCH, Psychol, see 10th ed, Soc. & Behav. Vols.

FESHBACH, PROF. SEYMOUR, b. New York, N.Y, June 21, 25; m. 47; c. 1. PSYCHOLOGY. U.S. Pub. Health Serv. fel, Yale, 50-51, Ph.D.(psychol), 51. Proj. dir. attitude assessment br, U.S. Dept. Army, 51-52; asst. prof. PSYCHOL, Pennsylvania, 52-57, assoc. prof, 57-63; PROF, Colorado, 63-64; CALIFORNIA, LOS ANGELES, 64-, HEAD, FERNALD SCH, 64- Vis. prof, California, Berkeley, 61-62; Nat. Inst. Ment. Health spec. fel, Stanford, 62-63. Mem, Nat. Inst. Ment. Health Res. Rev. Panel, 64-68. U.S.A, 43-46, Lt. AAAS; Psychol. Asn; Soc. Res. Child Develop. Personality dynamics; attitude change; learning disorders; motivation and learning; regulation of aggression. Publ: Co-auth, Cognition, personality, and clinical psychology, Jossey-Bass, 67; auth, Drive-reducing function of fantasy behavior, J. Abnorm. & Soc. Psychol; Function of aggression and the regulation of aggressive drive, Psychol. Rev, 7/64. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

FESLER, PROF. JAMES W(ILLIAM), b. Duluth, Minn, Mar. 14, 11; m. 40; c. 2. POLITICAL SCIENCE. A.B, Minnesota, 32; A.M, Harvard, 33, Ph.D. (polit. sci), 35; fel, Brookings Inst, 34-35; hon. M.A, Yale, 51. Res. asst, Nat. Resources Cmt, 35; asst. prof. polit. sci, North Carolina, 35-37, assoc. prof, 37-45, prof, 45-51, res. prof, inst. res. soc. sci, 48-51; COWLES PROF. GOVT, YALE, 51-, chmn. dept. polit. sci, 51-55, 57, 62-64, Ford res. prof, 61-62, faculty fel, Soc. Sci. Res. Coun, 64-65. Res. fel, Rockefeller Found, 37-38; spec. asst. to exec. secy, War Prod. Bd, 41-43, chief policy anal. & records, 43-45; War Prod. Bd. historian, Civilian Prod. Admin, 45-46; vis. prof, California, 49-50. Mem. staff, President's Cmt. Admin. Mgt, 36. Polit. Sci. Asn; Soc. Pub. Admin.(ed-in-chief, Pub. Admin. Rev, 58-60). Public administration; public policy and regulation; American government. Publ: Independence of state regulatory agencies; Industrial mobilization for war; Area and administration. Address: 647 Yale Station, New Haven, Conn. 06520.

FESSLER, DR. DONALD R(OY), b. Ft. Dodge, Iowa, Apr. 17, 07; m. 41. SOCIOLOGY. A.B, Grinnell Col, 31; Yale, 44; summer, Harvard, 50; Ph.D.(sociol), Iowa State Col, 51. Instr. Eng, Jefferson Acad, China, 31-35; secy, Independence Found, N.Y, 38-39; exec. secy, Northwest Inst. of Int. Rels, Ore, 41-43; instr. sociol. & soc. anthrop, Iowa State Col, 47-51; assoc. exten. sociologist, AGR. EXTEN. SERV, VA. POLYTECH, 52-55, EXTEN. SOCIOLOGIST, 55- Dir. Northern Va. Pilot Proj. Community Ed, 67- Pres, Coun. Southern Mountains, 64-67. U.S.A, 43-45. Adult. Ed. Asn. Community development; leadership development and training; rural church. Publ: Making meetings effective & Citizen participation in resource development, Bull, Va. Polytech. Inst; co-auth, Community education: an approach to urban problems. Address: Dept. of Sociology, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

FEST, PROF. THORREL B(ROOKS), Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

FESTINGER, PROF. LEON, b. New York, N.Y, May 8, 19; m. 43; c. 3. PSYCHOLOGY. B.S, City Col. New York, 39; M.A, Iowa, 40, Ph.D.(psychol), 42. Psychologist, Psychopathic Hosp, Iowa, 40-42; instr. psychol. & res. assoc, child welfare res. sta, Iowa, 42-43; instr, Rochester, 43-45; assoc. prof, res. center group dynamics, Mass. Inst. Tech, 45-48; dept. psychol, Michigan, 48-51; PROF. PSYCHOL, Minnesota, 51-55; Stanford, 55-68; NEW SCH. SOC. RES, 68- Mem. div. anthrop. & psychol, Nat. Res. Coun, 59-62. AAAS; fel. Psychol. Asn. (award, 59); fel. Am. Acad. Arts & Sci. Statistics and research methods; cognitive theory. Publ: Research methods in the behavioral sciences; Theory of cognitive dissonance. Address: Dept. of Psychology, New School for Social Research, 66 W. 12th St, New York, N.Y. 10014.

FETT, DR. JOHN HERMAN, b. Plymouth, Wis, May 7, 32. AGRICULTURAL JOURNALISM. B.S, Wisconsin, 61, fel, 61-62, M.S, 62, Ph.D.(mass commun), 67. ASST. PROF. AGR. JOURNALISM, WISCONSIN, 63- U.S. Agency Int. Develop-Univ. Wisconsin, vis. prof, Univ. Rio Grande do Sul, Brazil, 67-69. Asn. Ed. Journalism; Asn. Agr. Col. Ed. Attitude change; source credibility of messages; communications and international agricultural development. Address: 1 Agriculture Hall, University of Wisconsin, Madison, Wis. 53706.

FETTER, PROF. FRANK WHITSON, b. San Francisco, Calif, May 22, 99; m. 29; c. 3. ECONOMICS. A.B, Swarthmore Col, 20; A.M, Princeton, 22, Ph.D, 26; A.M, Harvard, 24. Instr. ECON, Princeton, 24-25, 27-28, asst. prof, 28-34; assoc. prof, Haverford Col, 34-36, prof, 36-48; NORTHWESTERN, 48-67, EMER. PROF, 67- Vis. prof, Dartmouth Col, 67-68. Guggenheim fel, 37-38. Ed. writer, St. Louis Post-Dispatch, 30-34. Mem, Am. Cmn. Financial Adv, Chile, 25, Poland, 26, Ecuador, 26-27, China, 29. Knight, Order Polonia Restituta, Poland, 27; Order Merit First Class, Ecuador, 27. Civilian with Off. Lend Lease Admin, 43-44; U.S. Dept. State, 44-46. Econ. Asn. International trade and finance; money and banking; British monetary and banking history. Publ: Monetary inflation in Chile; The Irish pound; Development of British monetary orthodoxy: 1797-1875, Harvard, 65. Address: 8 Smith Rd, Hanover, N.H. 03755.

FETTER, DR. GEORGE C, b. Rochester, N.Y, Dec. 4, 20; m. 43; c. 2. SOCIOLOGY. A.B, Hamilton Col.(N.Y), 43; M.A, Cornell, 46, Ph.D.(sociol), 50. Asst. prof. sociol. & dean men, Linfield Col, 50-55; assoc. prof. sociol, Cent. Wash. Col. Ed, 55-58; American Univ. Beirut, 58-64, chmn. dept. sociol. & anthrop, 59-64; proj. dir, Peace Corps Training Prog. India, Oregon State Univ, 64; CHMN. DEPT. SOCIOL, BATES COL, 65- Rockefeller res. grant, Africa. Consult, Int. Coop. Admin, Pakistan, 59; Job Corps, 66-68. U.S.N, 43-46. Sociol. Asn. Socioeconomic background of persons sixty-five and over; social change in Lebanon; community development programs in the Middle East. Address: R.F.D 1, Taylor Hill Rd, Lewiston, Maine 04240.

FETTER, PROF. ROBERT B(ARCLAY), b. Berwyn, Ill, May 6, 24; m. 51; c. 3. OPERATIONS RESEARCH. B.S, Va. Polytech, 47; M.B.A, Indiana, 49, D.B.A, 52. Instr. mgt, Indiana, 49-52, asst. prof, 52-53; indust. mgt, Mass. Inst. Tech, 53-58; assoc. prof. indust. admin, YALE, 58-63, PROF. ADMIN. SCI, 63- Prin. investr, Nat. Insts. Health res. grant, 64-66, 67-69. Consult, Ford. Found; Rand Corp, 64-; McKinsey & Co, Inc, 67- U.S.N.R, 44-45, Lt. (jg). Econ. Asn; Statist. Asn; fel. Acad. Mgt; Economet. Soc; Opers. Res. Soc; Inst. Mgt. Sci. Production management; application of quantitative methods to planning and control problems of management. Publ: Co-auth, Compensation and incentives for industrial executives; Analysis for production & operations management, 67 & Quality control system, 67, Irwin. Address: Barberry Lane, Woodridge, Conn. 06525.

FETTER, DR. THEODORE A(LBERT), b. Quincy, Ill, Oct. 11, 07; m. 35; c. 4. ECONOMICS. B.S, Washington (St. Louis), 29, M.S, 31; J.D, George Washington, 42. Asst, Washington (St. Louis), 29-30; clerk, Southwest. Freight Bur, St. Louis, Mo, 30-36; tariff exam, INTERSTATE COMMERCE CMN, 36, report writer, FOURTH SECT, 37-40, chief report writer, 40-42, TRANSPORT ECONOMIST, 42- Econ. Asn; Transportation Res. Forum. Transportation. Publ: Value of service in rate making, 60; Study of REA Express, Civil Aeronaut. Bd, Fed. Maritime Cmn. & Interstate Commerce Cmn, 65; co-auth, Piggyback traffic characteristics, Interstate Commerce Cmn, 66. Address: 2654 N. Robert Walker Place, Arlington, Va. 22207.

FEUER, PROF. LEWIS S, b. New York, N.Y, Dec. 7, 12; m. 46; c. 1. SOCIOLOGY. B.S, City Col. New York, 31; A.M, Harvard, 32, Ph.D, 35. Instr. philos, City Col. New York, 39-42; from instr. to assoc. prof, Vassar Col, 46-51; from asst. prof. to PROF. philos. & sociol, Vermont, 51-57; philos. & soc. sci, California, 57-66, chmn. soc. sci. course, 57-66; SOCIOL, TORONTO, 66- Ford fel. adv. ed, 54-55; exchange scholar, Inst. Philos, Soviet Acad. Sci, Moscow, 63. U.S.A, 42-46. Philos. Asn; Hist. Asn; Am. Studies Asn; Sociol. Asn. Philosophy of the social sciences; sociology of science and philosophic ideas; history of American thought. Publ: Psychoanalysis and ethics; Spinoza and the rise of liberalism; The scientific intellectual, Basic Books, 63. Address: Dept. of Sociology, University of Toronto, 563 Spadina Ave, Toronto 5, Ont, Can.

FEUERBURGH, DR. JOSEPH, b. New York, N.Y, Aug. 4, 08; m. 41. PSYCHOLOGY. B.A, Long Island, 31; M.A, N.Y. Univ, 36, Ph.D.(psychol), 54. Probation officer, Spec. Sessions Court, N.Y, 38-42; CLIN. PSYCHOLOGIST, HOSP. DIV, U.S. PUB. HEALTH SERV, 46- Instr, psychol. dept, evening session, Brooklyn Col, 47-48. Consult. clin. psychologist, Staten Island Ment. Health Soc, 53-55; panel psychologist, div. voc. rehab, N.Y. State Dept. Ed, 67- U.S.A, 42-46, Res, 55-, Capt. AAAS; Psychol. Asn; Group Psychother. Asn. Perception and personality; psychotherapy and psychological counseling; vocational and educational guidance; intellectual functioning of aged; definition of criteria for detection of organic encephalopathy. Address: 15 Stuyvesant Oval, New York, N.Y. 10009.

FEUERLEIN, PROF. W(ILLY) J(OHN), b. Zurich, Switz, May 8, 11; nat; m. 42; c. 1. ECONOMICS, INTERNATIONAL FINANCE. A.B. & M.A, George Washington, 35; Brookings Inst, 37-38; Rockefeller fel, Yale, 38-39, Ph.D, 39. Asst, Inst. Int. Studies, Yale, 39-40; sr. statistician, Fed. Reserve Bank N.Y, 40-42; economist, Bd. Econ. Warfare, U.S. Govt, 42-44; for. trade specialist, E.I. du Pont de Nemours & Co, 44-50; Consult, UN, 50-51; Int. Monetary Fund, 51; chief mission & consult, Tech. Assistance Mission, Govt. El Salvador, 52-56; liaison officer, develop. loan fund, U.S. Opers. Mission, Pakistan, 57-62; asst. dir. Off. Brazil Affairs, U.S. Dept. State, 62-65; PROF. ECON, FLORIDA ATLANTIC, 65- Lectr, Temple, 46-47; Delaware, 47-49; prof, Nat. Univ. El Salvador, 52-56; Florida, 56-57; Fulbright prof, Aachen Tech, summer 67. Mem, U.S. Econ. & Financial Mission, Peru, 49; dir. res. proj. Dominican Republic, Agency Int. Develop, 66. Econ. Asn; Soc. Int. Develop. Economic development of underdeveloped countries, especially financial and investment problems. Publ: Dollars in Latin America; Proposals for the economic development of El Salvador. Address: Dept. of Economics, Florida Atlantic University, Boca Raton, Fla. 33432.

FEY, DR. CURT F, Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

FEY, DR. WILLIAM F(REDERICK), b. Elyria, Ohio, Mar. 8, 22; m. 49; c. 3. CLINICAL PSYCHOLOGY. A.B, Miami (Ohio), 46; M.A, Wisconsin, 49, Ph.D.(clin. psychol), 51. From asst. to asst. prof. neuropsychiat, MED. SCH, WISCONSIN, 48-58, ASSOC. PROF. PSYCHIAT, 58- U.S.A.A.F, 43-45, Capt. Teaching; psychotherapy. Address: 5509 Barton Rd, Madison, Wis. 53711.

FEYERHERM, PROF. ARLIN M(ARTIN), b. West Point, Nebr, May 21, 25; m. 51; c. 3. STATISTICS. B.S, Minnesota, 46; M.S, Iowa, 48; Ph.D.(math), Iowa State Col, 52. Asst. MATH, Iowa, 46-48; acting chmn. dept, N.W. Mo. State Col, 48-49; instr, Iowa State Col, 49-52, asst. prof, 52-53, KANSAS STATE, 53-57, assoc. prof, 57-64, PROF, 64- Consult, U.S. Air Force. U.S.N.R, 43-46. Statist. Asn; Inst. Math. Statist. Experimental statistics. Address: Dept. of Statistics, Calvin Hall, Kansas State University, Manhattan, Kans. 66502.

FICCA, PROF. S(YLVESTER) CHARLES, b. Atlas, Pa, Aug. 8, 10; m. 38. PSYCHOLOGY. Ph.D, Pa. State, 50. Chief counseling psychologist, Lebanon Vet. Admin. Hosp, 51-58; PROF. PSYCHOL, MONMOUTH COL. (N.J), 58-, CHMN. DEPT, 67- Exten. instr, Pa. State. Consult, Philhaven Hosp. U.S.A, 42-46, Lt. Psychol. Asn. Group and individual psychotherapy. Address: 37 Baker Dr, West Long Branch, N.J. 07764.

FICHTER, JOSEPH H, S.J, b. Union City, N.J, June 10, 08. SOCIOLOGY. A.B, St. Louis, 35, A.M, 39; Ph.D, Harvard, 47. Prof. sociol. & chmn. dept, Loyola (La), 47-64; vis. prof, Chicago, 64-65; STILLMAN PROF, SOCIOL. OF RELIG, HARVARD, 65- Vis. prof, Münster, 53-54; vis. prof, Notre Dame, 56-57; Cath. Univ. Chile, 61. Sociol. Asn. Sociology of religion and of education; race relations. Publ: Priests and people, Sheed, 65; Graduates of predominantly Negro colleges, U.S. Govt. Printing Off, 67; America's forgotten priests, Harper, 68. Address: 45 Francis Ave, Cambridge, Mass. 02138.

FICHTHORN, PROF. WILLIAM H(ARRISON), b. Marshall, Mo, May 12, 19; m. 54; c. 3. BUSINESS ADMINISTRATION. A.B, Mo. Valley Col, 41; M.B.A,

Northwestern, 43; D.C.S.(bus), Harvard, 55. Res. asst. mgt. financial insts, Harvard Bus. Sch, 46-47, res. assoc. investment mgt, 53-55; financial analyst, Ralph E. Badger Assocs, Mich, 47-50; Standard Res. Consult, N.Y, 50-51; from asst. prof. to assoc. prof. FINANCE, Ohio, 55-65; from assoc. prof. to PROF, BOWLING GREEN STATE, 65- Mich. Pub. Serv. Cmn. expert witness, Mich. Bell Tel. Co. & Am. Tel. & Tel. Corp, 51. Sig.C. & Ord.Dept, U.S.A.F, 42-45, Res, 45-54, 2nd Lt. Inst. Chartered Financial Anal. Investment analysis and management; financial management. Publ: Co-auth, Ohio School of Banking: case problems in banking-1st year & Ohio School of Banking: case problems in banking-2nd year, Ohio Bankers Asn, 64; auth, Do bank capital notes merit investment stature, Financial Anal. J, 7-8/67. Address: Dept. of Finance & Insurance, Bowling Green State University, Bowling Green, Ohio 43402.

FICHTNER, DR. C(HARLES) C(LIFTON), Bus. Econ, see 10th ed, Soc. & Behav. Vols.

FICK, DEAN REUEL L(eROI), b. Foresthill, Calif, Mar. 24, 13; m. 36; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Humboldt State Col, 34; M.A, Col. of Pacific, 47; Ed.D.(ed. psychol), Stanford, 49. Dir. guid, Stockton Jr. Col, 46-51; assoc. prof. ed. & psychol. & dir. guid. training, Hawaii, 51-56; dean, Santa Rosa Jr. Col, Calif, 56-57; coordinator sec. guid. & curriculum, Sonoma County Schs, 57-62; sr. ed. adv, U.S. Agency Int. Develop, Cambodia, 62-63; dir. univ. reading prog. & prof. psychol. & ed, New Mexico State, 63-66; DEAN INSTR, EAST. ARIZ. COL, 66- Adj. lectr, Col. of Pacific, 47-51; Fulbright lectr, Karachi, Pakistan, 54-55. Mem. & tech. consult, cmt. counsr. training & cert, Dept. Pub. Instr, Hawaii, 51-56, chmn. cmt. coord. guid. serv, 53-56; consult, Cent. Govt. of Pakistan, 54-55. U.S.N, 43-46. Personnel & Guid. Asn. Client-centered counseling techniques; group techniques in guidance and therapy; adjustment problems of children and youth. Publ: Fick problem check list; Reading in college and secondary school, Calif. State Dept. Ed, 63; Some expressed problems of junior college students, Jr. Col. J. Address: 2025 W. Relation St, Safford, Ariz. 85546.

FICKER, HERMANN, Econ, see 10th ed, Soc. & Behav. Vols.

FICKETT, DR. LEWIS PERLEY, JR, b. Winthrop, Mass, May 28, 26; m. 54; c. 2. POLITICAL SCIENCE. A.B, Bowdoin Col, 48; LL.B, Harvard, 52, M.P.A, 54, admin. fel, 54, Fund Repub. fel, 55, Ph.D.(polit. sci), 56. Instr. polit. sci, Bowdoin Col, 48; asst, Harvard, 53-56; for. serv. officer, U.S. Dept. State, 56-63; asst. prof. POLIT. SCI, MARY WASHINGTON COL, VIRGINIA, 63-64, ASSOC. PROF, 64- Instr, Northeastern, 54-55; Ford Found. Faculty fel. Asian studies, 65; Fulbright Inst. Indian Civilization, summer 66; Women's Col. Exchange Prog. exchange prof, Delhi, 67-68. U.S.N.R, 44-46, Res, 46-, Comdr. Polit. Sci. Asn. Problems of political development; Indian socialism and Indian politics. Publ: Problems of the developing nations, Crowell, 66. Address: Dept. of Political Science, Mary Washington College, University of Virginia, Fredericksburg, Va. 22401.

FICKS, DR. DAVID BRUCE, b. Uniontown, Pa, Aug. 5, 16; m. 59; c. 1. CLINICAL PSYCHOLOGY. B.S, California State Teachers Col.(Pa), 38; M.Ed, Pa. State Col, 40; Colorado, 47-50; Ph.D, Denver, 52. Staff clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Colo, 46-50; owner & dir, Consult. Psychol. Servs, 53-56; dir. indust. rels, C.A. Norgren Co, 56-58; dir. consult. servs. br, Psychol. Servs, Inc, Wyo, 59; chief psychologist, outpatient serv, State Hosp. Jamestown, N.Dak, 59-60; chief psychologist & adminstr, State Psychiat. Clin, Bismarck, 60-61; chief psychologist admin. & psychol, State Hosp. Utah, 61-63; asst. prof. psychol, Utah, 63-66; CHIEF PSYCHOLOGIST, COMPREHENSIVE MENT. HEALTH CENTER, 66- U.S.A, 41-46, Capt. Psychol. Asn. Industrial psychology; authenticity in communications. Address: Mental Health Center, 911 E. Park Blvd, Boise, Idaho 83706.

FIDDLEMAN, DR. PAUL B(ARRY), b. Brooklyn, N.Y, Nov. 26, 33. PSYCHOLOGY. A.B, Brooklyn Col, 55; M.A, North Carolina, 57, Nat. Inst. Ment. Health fel, 58-59, Ph.D.(psychol), 61. Instr. psychol, North Carolina, 56, asst, inst. res. soc. sci, 56-57; intern clin. psychol, State Hosp, Middletown, Conn, 57-58; instr. psychol, sch.med, NORTH CAROLINA, 59-60, Nat. Sci. Found. fel. & res. assoc. psychopharmacol, 60-62, ASST. PROF. PSYCHOL, 65- Res. psychologist, Nat. Inst. Ment. Health coop. drug proj, 65-; staff psychologist, John Umstead Hosp, Butner, N.C, 65- Consult, Neighborhood Youth Corps, 65-; Nash-Edgecombe Ment. Health Clin, 66- U.S.A, 62-65, Capt. Psychol. Asn; N.Y. Acad. Sci. Stress and psychopathology; experimental manipulation of behavior through use of psychotomimetic and psychotropic agents; psychosomatic medicine; utilization of community resources in economically deprived areas. Publ: Effect of examiner influence on Rorschach productivity, J. Proj. Tech. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27514.

FIEBERT, DR. MARTIN S, b. New York, N.Y, June 6, 39; m. 63; c. 1. PSYCHOLOGY. B.S, Queens Col.(N.Y), 60; Ph.D.(psychol), Rochester, 65. ASST. PROF. PSYCHOL, CALIF. STATE COL. LONG BEACH, 65-, faculty res. grant, 67-68. Consult, Los Angeles City Schs. & lectr. & group leader multi-culture seminar, 66- Psychol. Asn. Cognitive functioning of the deaf; cognitive styles; outcome changes in sensitivity training. Publ: Cognitive style in the deaf & Sex differences in cognitive style, Perceptual & Motor Skills, 67; Sensitivity training: an analysis of trainer intervention and group process, Psychol. Reports, 22: 829-838. Address: Dept. of Psychology, California State College at Long Beach, Long Beach, Calif. 90804.

FIEDLER, PROF. FRED E(DWARD), b. Vienna, Austria, July 13, 22; nat; m. 46; c. 4. PSYCHOLOGY. A.M, Chicago, 47, Ph.D.(psychol), 49. Clin. psychol. trainee, Vet. Admin, Chicago, Ill, 47-49; res. assoc, Univ. Chicago, 50-51; res. asst. prof. ed, ILLINOIS, 51-53, asst. prof. PSYCHOL, 53-55, assoc. prof, 55-59, PROF, 60-, DIR, GROUP EFFECTIVENESS RES. LAB, 53- Fulbright res. scholar, Amsterdam, Netherlands, 58-59; Ford faculty res. fel, Louvain, 63-64. Consult, crew res. lab, Human Resources Res. Center, U.S. Dept. Air Force, 51-53; Walter Reed Army Med. Res. Inst, 53-; HumRRO, George Washington, 55-; Vet. Admin, 55-; U.S. Civil Serv. Cmn. Award, Am. Personnel & Guid. Asn, 53. U.S.A, 42-45. AAAS; fel. Psychol. Asn; Soc. Psychol. Study Social Issues; Int. Asn. Appl. Psychol. Leadership and group effectiveness; group creativity; informal therapeutic relations in small groups. Publ: Leader attitudes and group effectiveness, Univ. Illinois, 58; Boards, management and company success, Interstate, 59; A theory of leadership effectiveness, McGraw, 67. Address: Dept of Psychology, University of Illinois, Urbana, Ill. 61801.

FIEDLER, DR. MIRIAM F(ORSTER), b. Lawrence, Mass, Feb. 11, 05; div; c. 1. CHILD PSYCHOLOGY. B.A. & M.A, Smith Col, 35; Ph.D, Washington (Seattle), 41. Asst. prof. child study & dir. nursery sch, Antioch Col, 41-43; mem. dept. child study, Vassar Col, 45-51; asst. prof. ed. & child study, Smith Col, 51-58; RES. ASSOC. PSYCHOL, CHILDREN'S HOSP. MED. CENTER, BOSTON, 59- Res. psychologist, Clarke Sch. for Deaf, 51-58; mem, Coun. Except. Children. Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Fel. Psychol. Asn; fel. Soc. Res. Child Develop. Handicapped children; personality development; psychological testing. Publ: Deaf children in a hearing world; Study of the socio-economic status of a group of public school children with hearing defects & Preschool education of deaf children, Child Develop. Address: Children's Hospital Medical Center, 83 Francis St, Boston, Mass. 02115.

FIEKOWSKY, DR. SEYMOUR, b. Detroit, Mich, Dec. 19, 12; m. 43; c. 3. ECONOMICS, STATISTICS. B.A, Wayne State, 42; M.A, Harvard, 48, Ph.D, 59. Asst. prof. econ, Reed Col, 49-54; assoc. prof. econ. & statist, Los Angeles State Col, 55-59; staff economist, Outdoor Recreation Resources Rev. Cmn, D.C, 59-60; res. assoc, opers. eval. group, Off. Chief Naval Opers, 60-67; ACTING HEAD BUS. TAXATION STAFF, U.S. TREAS. DEPT, 67- Mem, capital tax proj. staff, Columbia, 63-64. Sig.C, U.S.A, 42-45. Econ. Asn; Statist. Asn; Economet. Soc. Monetary economics and public finance; managerial statistics; military economics; collective economic decision making. Publ: Successors welfare as motivation for accumulation of wealth, Proc. West. Econ. Asn; Comparison of data from Treasury Department special studies & The effect on saving of the United States Estate and Gift Tax, In: Federal estate and gift taxes, Brookings, 66. Address: Office of Tax Analysis, U.S. Treasury Dept, Washington, D.C. 20220.

FIELD, DR. ARTHUR JORDAN, b. New York, N.Y, July 1, 27; m. 60; c. 2. SOCIOLOGY. B.S.E, Pennsylvania, 47; M.A, Columbia, 48; fel, Brown, 58-59, Ph.D.(sociol), 60. Dir, Off. Soc. Welfare, Safad, Israel, 51-52; instr. sociol, Massachusetts, 54-55; Rhode Island, 56-57; res. dir, Providence City Planning Cmn, R.I, 57-60; lectr. SOCIOL, Saskatchewan, 60-61; asst. prof, Flint Col, Michigan, 61-64; Wayne State, 64-67; ASSOC. PROF, RENSSELAER POLYTECH, 67- Virgin Islands govt. study grant, St. Croix, 65-; sr. res. assoc, Caribbean Res. Inst, Col. Virgin Islands, 65-; dir. conferences on urbanization & work in modernizing areas, sponsored by soc. & rehab. serv, Dept. Health Ed. & Welfare, 66 & 67. Sponsored res. characteristics mobile home dwellers, 64- Consult, anti-poverty progs, R.I. & N.C, 65-66. Sociol Asn; Regional Sci. Asn. Urban renewal; relations between population and economy in American metropolitan areas; comparative urbanization. Publ: Co-auth, Downtown Providence, 1970; auth, Urbanization and work in modernizing societies, Glengary Press, 67; Organizations in urban renewal. Address: Dept. of History & Political Science, Rensselaer Polytechnic Institute, Troy, N.Y. 12181.

FIELD, BERTRAND B(ERYL), b. Brooklyn, N.Y, Dec. 4, 15; m. 43; c. 3. ECONOMICS, STATISTICS. A.B, N.Y. Univ, 38; M.A, Columbia, 39; Harvard, 39-40. Tech. asst. statist, U.S. Bur. Census, 40-41; economist mkt. anal, Off. Price Admin, 41-46; econ. trends, Nat. Planning Asn, 46-47; proj. leader mkt. res, U.S. Dept. Agr, 48-51; prog. officer int. econ, Int. Coop. Admin, 51-53; consult. appl. econ, 54-55; economist, opers. res. consult. serv, Gen. Elec. Co, 56-62, ed, Opers. Res. Jour, 58-60, mgr. opers. res, Hanford Labs, 62-64, proj. mgr, bus. transfer oper, 64-65; DIR. bus. res. & diversification, Douglas United Nuclear, Inc, 65-68; BUS. RES. & PLANNING, ATLANTIC RICHFIELD HANFORD CO, 68- U.S.N, 43-46. AAAS; Econ. Asn; Statist. Asn; Opers. Res. Soc; Inst. Mgt. Sci; Soc. Gen. Syst. Res. Applications of management sciences, economic and statistical theories to solution of business problems; general business models for use in business research and planning; economic analysis and forecasting. Publ: Operations research in business & co-auth, Some operations research methods, In: Manufacturing programming and control. Address: 2316 Enterprise Dr, Richland, Wash. 99352.

FIELD, DR. CHRIS, b. Tampico, Mex, Jan. 24, 31; U.S. citizen; m. 55; c. 4. GEOGRAPHY. B.A, Stanford, 53; M.A, California, Los Angeles, 60, Ph.D. (geog), 66. Teaching asst. geog, California, Los Angeles, 54-56; res. contractor, for. field res. prog, Nat. Acad. Sci-Nat. Res. Coun, 61-62; instr. GEOG, MONTANA, 63-66, ASST. PROF, 66- U.S.A, 57-59. Am. Geog. Soc; Asn. Am. Geog. Cultural geography of Latin America; historico-cultural use of land; agricultural landforms-terraces, irrigation systems; use of arid environments; technological development and landscape change in rural Hispanic America. Publ: A reconnaissance of Southern Andean agricultural terracing, Univ. Microfilms, 66. Address: Dept. of Geography, University of Montana, Missoula, Mont. 59801.

FIELD, PROF. G(EORGE) LOWELL, b. Worcester, Mass, Jan. 1, 11; m. 35; c. 1. COMPARATIVE GOVERNMENT. A.B, Wesleyan, 32; M.A, Columbia, 33, Cutting traveling fel, 34-35, Ph.D, 38. Instr. govt, Columbia, 35-38; asst. prof, Texas, 38-47; Wayne, 47-49, assoc. prof, 49-52; PROF. POLIT. SCI, CONNECTICUT, 52- Fel. AAAS; Polit. Sci. Asn. Publ: Syndical and corporative institutions of Italian fascism, Columbia, 38; Governments in modern society, McGraw, 51; Comparative political development: the precedent of the West, Cornell, 67. Address: Storrs Rd, Storrs, Conn. 06268.

FIELD, DR. HENRY, b. Chicago, Ill, Dec. 15, 02; m. 52; c. 2. ANTHROPOLOGY. B.A, Oxford, 25, M.A, 28, D.Sc.(anthrop), 37. Asst. curator phys. anthrop, Field Mus. Natural Hist, Chicago, 26-36, curator, 36-41; govt. res. Near East, Library of Cong, 41-45; private res, Mex, 46-47; phys. anthropologist, Univ. California exped, Africa, 47-48; RES. ASSOC. PHYS. ANTHROP, PEABODY MUS, HARVARD, 50- Leader, Marshall Field expeds, N.Arabian Desert; asst, Field Mus, Oxford Univ. exped, Kish, Iraq, 25-26, 27-28; leader, archaeol. expeds, West. Europe; Near East exped, 34; Peabody Mus. exped, southwest Asia, 50, W.Pakistan, 55. Annandale medalist, Calcutta Asiatic Soc, 66. AAAS; Anthrop. Asn; Geog. Soc; Oriental Soc;

fel. Royal Anthrop. Inst. Gt. Brit; fel. Royal Geog. Soc; fel. Royal Asiatic Soc. Anthropometric survey and prehistory of southwestern Asia; anthropology of Iraq; Iran; Caucasus and West Pakistan. Publ: Ancient and modern man in southwest Asia, Vol. I & II; Track of man; Bibliographies on southwestern Asia, Vols. I-VII. Address: 3551 Main Hwy, Coconut Grove, Miami, Fla. 33133.

FIELD, DR. IRVING M(EDCRAFT), b. Green Bay, Wis, Jan. 21, 34; m. 60; c. 2. INSURANCE. B.S, Missouri, 56; M.B.A, Washington State, 62; D.B.A, Oregon, 66. Asst. cashier, Equitable Life Assurance Soc. U.S, 56-60; teaching asst. acct. & bus, Washington State, 60-62, instr. INS. & REAL ESTATE, 62-64; Oregon, 64-66; ASST. PROF, WASHINGTON STATE, 66-; ASSOC. BROKER, PALOUSE EMPIRE REALTY, 64- Agent, Farmers Ins. Group, 60-65; broker, Field Real Estate, 62-64. U.S.N, 52-55. Risk & Ins. Asn; Real Estate & Urban Econ. Asn. Insurance, specifically the development of group property and liability insurance. Publ: Employee group property & liability insurance, Sch. Bus. Admin, Oregon, 67 & Property & Liability Ed, Bests Ins. News, 9-12/67; Finance and the fraternity, Triad, 12/67. Address: Box 495, Pullman, Wash. 99163.

FIELD, DR. KENNETH, b. Auburn, Maine, June 5, 03; m. ECONOMICS. B.A, Maine, 25; M.A, Illinois, 26, fel, 26-28, Ph.D, 28; J.D, Northwestern, 36. Head div. finance, sch. bus, Colorado, 28-36; head dept. econ, Carnegie Inst. Tech, 36-44; res. economist, Carnegie-Ill. Steel Corp, 42, dir. res, 42-50; dir. indust. rels. res. & policy & procedure develop, U.S. STEEL CORP, 50-55, dir. labor rels. coord, 54-64, chmn. labor rels. admin. cmt, 55-64, mgr. policy & planning, 64-66, ASST. TO V.PRES. LABOR RELS, 66- Mem. subcmt, bus. adv. coun, U.S. Dept. Commerce, 44-60; corp. mem. permanent tripartite bd. arbit, United Steelworkers Am. & U.S. Steel Corp, 51-52; mem. cmt. manpower resources nat. security, Off. Defense Mobilization, 54. Econ. Asn; Finance Asn.(pres, 40, ed. pubs, 41-43); Soc. Adv. Mgt; Indust. Rels. Res. Asn; Inst. Adv. Mgt.(v.pres, 49-52). Industrial relations; management organization and techniques; financial analysis. Publ: Corporation finance; Introduction to investment analysis; contrib, Determining the business outlook. Address: 704 Valleyview Rd, Pittsburgh, Pa. 15243.

FIELD, DR. LEWIS W(ILLIAM), b. St. Paul, Minn, July 15, 16; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.A, Southern Methodist, 39, M.A, 48; Stanford, 48-49; Ph.D.(clin. psychol), Houston, 54. Instr. & counsr. psychol, Houston, 49-51; instr, Alfred, 51-52; clin. psychologist, Bluefield Ment. Health Center, W.Va, 54-59; CHIEF PSYCHOLOGIST, ATLANTIC AREA GUID. CENTER, ATLANTIC CITY, 59- Consult. psychologist. Sr. asst. ed, Psychiat. Bull, 50-51; contrib. ed. & consult. psychologist, Personal Commun. Pub. Corp, N.J, 67- Psychol. Asn. Programming for ego development, especially evaluating personality for areas of strength, evaluating individual's environment to discover catalytic potential and helping individual and interested others to cooperate in catalyzing the strength. Publ: Nondirective psychotherapy, Tex. J. Sci; Personality correlates of college achievement and major areas of study, Am. Psychol; An ego-programmed group treatment approach for emotionally disturbed boys, Psychol. Reports, 66. Address: 6 Frances Ave, Linwood, N.J. 08221.

FIELD, PROF. MARK G(EORGE), b. Lausanne, Switz, June 17, 23; nat; m. 48; c. 4. SOCIOLOGY. A.B, Harvard, 48, A.M, 50, fel, 54-55, Ph.D.(sociol), 55. Res. assoc, Joint Cmn. Ment. Illness & Health, Cambridge, 57-59; res. assoc, Russian Res. Center, Harvard, 59-61; assoc. prof. sociol, Illinois, Urbana, 61-62; PROF. SOCIOL. & CHMN. SOVIET & E. EUROPEAN STUDIES, BOSTON, 62- Res. asst, Russian Res. Center, Harvard, 48-54, res. assoc, 59-61, assoc, 62-, res. assoc, Prog. on Tech. & Soc, 66-, lectr. univ, 57-58, summers, vis. prof, 61-63, 65-67; asst. sociologist, dept. psychiat, Mass. Gen. Hosp, 64-; U.S. Pub. Health Serv. res. grant, 59- Consult, Arthur D. Little, Inc, 62-63, 66- Mem. adv. cmt, Soviet Sociology & Soviet Society, 66; Soviet Psychiatry, 67. U.S.A, 44-47. AAAS; fel. Sociol. Asn; fel. Pub. Health Asn; Asn. Adv. Slavic Studies. Comparative social institutions; Soviet social institutions; Soviet medicine and medical organization; comparative health systems of industrialized societies; mental illness; sociology of science; social problems in comparative perspective; Soviet and American pharmaceutical systems. Publ: Doctor and patient in Soviet Russia, Harvard, 57; co-auth, Social approaches to mental patient care, Columbia, 64; auth, Soviet socialized medicine: an introduction, Macmillan, 67. Address: 40 Peacock Farm Rd, Lexington, Mass. 02173.

FIELD, DR. NEIL C(OLLARD), b. Toronto, Ont, May 22, 30; m. 52; c. 3. GEOGRAPHY. B.A, Toronto, 52; M.A, Washington (Seattle), 54, Ford Found. fel, 54-56, Ph.D.(geog), 56. Asst. prof. GEOG, TORONTO, 60-63, ASSOC. PROF. 63- Ford Found. grant, 61. Can. Asn. Geog; Asn. Am. Geog. Geography of the Union of Soviet Socialist Republics; economic geography. Publ: Land hunger and the rural depopulation problem in the U.S.S.R, Ann. Am. Asn. Geog, 63; Administrative and constitutional changes in Arctic territories: the U.S.S.R, In: The Arctic Frontier, Univ. Toronto, 66; Environmental quality and land productivity: a comparison of the agricultural land base of the U.S.S.R. and North America, Can. Geographer, 68. Address: Dept. of Geography, University of Toronto, Toronto, Ont, Can.

FIELD, DR. PETER B(ENJAMIN), b. New York, N.Y, July 7, 34. PSYCHOLOGY. A.B, Yale, 55; Soc. Sci. Res. Coun. fel, Harvard, 55-56, Nat. Sci. Found. fel, 56-58, U.S. Pub. Health Serv. fel, 58-59, A.M, 57, Ph.D.(soc. psychol), 61. Dir. res, P.R. Inst. Psychiat, 61-62; fel. psychol, Harvard Med. Sch, 62-64; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, 64- AAAS; Psychol. Asn; Soc. Clin. & Exp. Hypnosis. Personality and psychotherapy; hypnosis; alcoholism. Publ: Co-auth, Personality and persuasibility, Yale, 59; auth, A new cross-cultural study of drunkenness, In: Society, culture and drinking patterns, Wiley, 62; An inventory scale of hypnotic depth, Int. J. Clin. Exp. Hypnosis, 65. Address: Psychology Service, Veterans Administration Hospital, Brooklyn, N.Y. 11209.

FIELD, DR. ROBERT W, b. Auburn, Maine, Jan. 23, 11; m. 37; c. 2. INDUSTRIAL ENGINEERING. B.S, Colorado, 34; pub. utility scholar, Illinois, 34-35, M.S, 35, pub. utility fel, 35-37, Ph.D.(econ), 37. Asst. prof. bus. mgt, Oklahoma, 37-42; assoc. prof. indust. eng, Purdue, 42-49, chmn. sect, 42-50, prof, 49-50; consult. engr, PAUL B. MULLIGAN & CO, 50-58, V.PRES, 58- Industrial organization and relations; job evaluation; wage incentives; investment standards for public utility securities clerical work measurement. Address: 910 Rose St, Lafayette, Ind. 47906.

FIELD, PROF. THOMAS P(ARRY), b. Waynesburg, Pa, June 6, 14; m. 44; c. 2. GEOGRAPHY. B.S, E.Tenn. State Col, 35; A.M, Peabody Col, 40; Ph.D, North Carolina, 48. Teacher, pub. sch, Tenn, 35-36; Greenville, N.C, 36-39; civilian pilot prog, E.Tenn. State Col, 40-42; asst, North Carolina, 46-49; from asst. prof. to assoc. prof. GEOG, KENTUCKY, 50-60, PROF, 60- Consult, Lexington Standard Metrop. Statist. Area, U.S. Bur. Census; bur. sch. serv, Univ. Kentucky. U.S.N.R, 42-45, Lt. Comdr. Asn. Am. Geog; Name Soc. Lower division geography; Australia; geographical traverse of southern North Carolina; cultural geography. Publ: Postwar land settlement in western Australia, Univ. Kentucky, 65; co-auth, The geographic background to Knox County, Kentucky, Off. Econ. Opportunity Spec. Report, 66; auth, Religious place names in Kentucky, Names,(in press). Address: Dept. of Geography, University of Kentucky, Lexington, Ky. 40506.

FIELD, PROF. WILLIAM F(RANKLIN), b. Los Angeles, Calif, Jan. 10, 22; m. 49. PSYCHOLOGY. B.S, Pa. State Teachers Col.(West Chester), 47; Ed.M, Temple, 48; Ph.D.(psychol), Maryland, 51. From asst. prof. to PROF. PSYCHOL, MASSACHUSETTS, 51-; DEAN STUDENTS, 61- U.S.A.A.F, 44-46. Psychol. Asn. Motivation; interest development and measurement; group behavior. Address: Whitmore Administration Bldg, University of Massachusetts, Amherst, Mass. 01002.

FIELDER, PROF. LONNIE LEE, JR, b. Shreveport, La, Mar. 27, 30; m. 58. AGRICULTURAL ECONOMICS, STATISTICS. B.S, La. State, 51, M.S, 53; Ph.D.(agr. econ), Iowa State, 59. Asst. AGR. ECON, La. State, 51-52, res. assoc, 52-53; asst, Iowa State, 56-59; asst. prof, LA. STATE, 59-62, assoc. prof, 62-67, PROF, 67- U.S.A, 53-56. Agr. Econ. Asn; Statist. Asn. Statistical analysis of agricultural prices and production, including multiple regression analysis and analysis of seasonal variations; linear programming, especially maximization problems and variable resource programming. Publ: Analysis of trends in cotton yields in Louisiana; Least-cost rations for hogs. Address: Dept. of Agricultural Economics, Louisiana State University, Baton Rouge, La. 70803.

FIELDER, DR. WILLIAM J(OSEPH), b. Vandalia, Mo, Aug. 7, 18; m. 47; c. 4. CLINICAL PSYCHOLOGY. M.A, Chicago, 50, Ph.D, 58. Psychologist, State Dept. Pub. Safety, Ill, 48-50; area psychologist, Ill. Dept. Pub. Instr, 50-56; consult. psychologist, 56; asst. supt. schs, Ill, 56-59; STAFF PSYCHOLOGIST, CHILD STUDY & CONSULTATION SERV, 59- Faculty assoc, col. ed, Arizona State, 63- Consult. psychologist, Barrow Neurol. Inst, Phoenix, 68- U.S.A, 41-46, 2nd Lt. Psychol. Asn. School psychology; mental retardation; socio-economic and cultural factors in personality development; public school administration and curriculum development; special services for exceptional children. Publ: Co-auth, A guide to establishing psychological services in the Arizona public schools, Ariz. State Dept. Pub. Instr, 63; contrib, Critical incidents in teaching, Prentice-Hall, 64. Address: 1141 E. Rose Lane, Phoenix, Ariz. 85014.

FIELDS, PROF. J(AMES) ELDON, b. McPherson, Kans, Aug. 20, 12; m. 37; c. 2. POLITICAL SCIENCE. A.B, Kansas, 34; Ph.D, Stanford, 42. Acting instr. POLIT. SCI, Stanford, 37-38, instr, 38-39; Syracuse, 39-41; Chicago, 41-46; asst. prof, KANSAS, 46-49, assoc. prof, 49-59, PROF, 59- U.S.A, 43-46. Polit. Sci. Asn. Political theory. Address: 508 Blake Hall, University of Kansas, Lawrence, Kans. 66044.

FIELDS, PROF. PAUL E(LDON), Psychol, see 11th ed, Phys. & Biol. Vols.

FIELDS, DR. SIDNEY J(ACOB), b. New York, N.Y, Sept. 13, 13; m. 47; c. 1. CLINICAL PSYCHOLOGY. B.S, George Washington, 43; M.A, Catholic Univ, 49, Ph.D.(psychol), 52. Instr. & clin. psychologist, DEPT. PSYCHIAT, SCH. MED, ARKANSAS, 52-54, asst. prof, 54-58, ASSOC. PROF, 58-, CHIEF CLIN. PSYCHOLOGIST, 54- Attend. clin. psychologist, Vet. Admin. Hosp, 54-60, consult, Consol. Vet. Admin. Hosp, 60- U.S.A, 43-46. AAAS; fel. Psychol. Asn; fel. Group Psychother. Asn. Perception; personality assessment, particularly in clinical diagnosis and in medical student selection; group psychotherapy. Publ: Discrimination of facial expression and its relation to personal adjustment, J. Soc. Psychol, 53; Personality inventory profiles during and after real life stress, J. Med. Ed, 58; The natural history of a therapy group program, J. Ark. Med. Soc, 67. Address: Dept. of Psychiatry, University of Arkansas Medical Center, Little Rock, Ark. 72201.

FIELDS, DR. VICTOR, b. U.S, Nov. 7, 12; m. 36; c. 1. PSYCHOLOGY. B.S, Brooklyn Col, 34; M.A, Columbia, 36; Ph.D.(psychol), American Univ, 64. Spec. rep, U.S. Civil Serv. Cmn, 40-43; chief qual. standards & test develop, Vet. Admin, 47-51; asst. head personnel measurement res. br, Bur. Naval Personnel, 51-59, dep. head, psychol. res. br, 59-65, head, 65-67; ACTING HEAD, PERSONNEL & TRAINING RES. BR, OFF. NAVAL RES, 67- Lectr, Montgomery Jr. Col, 65-; U.S. Dept. Agr. Grad. Sch, 65-67. U.S.N, 43-46, Capt. AAAS; Psychol. Asn; Ed. Res. Asn; Sociol. Asn; Coun. Measurement in Ed. Psychological measurement; educational technology; instructional strategies; computer assisted instruction; personnel selection and assignment. Address: 13905 North Gate Dr, Silver Spring, Md. 20906.

FIELLIN, PROF. ALAN, b. Bloomington, Ill, Jan. 27, 29; m. 51; c. 2. POLITICAL SCIENCE. M.A, Chicago, 52; Penfield fel, N.Y. Univ, 56-57, Ph.D, 61. Congressional fel, Am. Polit. Sci. Asn, 57-58; asst. prof. polit. sci, Dartmouth Col, 58-61; nat. cmt. fel, Center Ed. in Polit, 61-62; asst. prof. POLIT. SCI, CITY COL. NEW YORK, 62-68, ASSOC. PROF, 68- Grant, Am. Polit. Sci. Asn. Study of Cong, 66-68. Spec. consult. to chmn, Democratic Nat. Cmt, 61-62. Polit. Sci. Asn. Political behavior; methodology; American politics; the legislative process. Publ: Functions of informal groups in legislative institutions, J. Polit; Some thoughts on the recent elections, Dartmouth Col. Alumni Mag; Recruitment and legislative role conceptions, West. Polit. Quart, 6/67. Address: Dept. of Political Science, City College of New York, New York, N.Y. 10031.

FIENUP, PROF. DARRELL F(ISCHER), b. Shenandoah, Iowa, May 20, 26; m. 50; c. 4. AGRICULTURAL ECONOMICS. B.S, Iowa State, 51; M.S, Mont. State Col, 52; Ph.D.(econ), Wisconsin, 55. Asst. prof. AGR. ECON, Kentucky, 55-57; from asst. prof. to assoc. prof, MINNESOTA, ST. PAUL, 57-60, PROF, 63-; PROG. ADV. AGR, FORD FOUND, URUGUAY, PARAGUAY, ARGENTINA, 64- Consult, econ. res. serv, U.S. Dept. Agr, 60-61. Econ. Asn; Agr. Econ. Asn; Int. Asn. Agr. Econ. Market structure and agribusiness; economic growth and development; agricultural marketing; foreign agricultural development. Publ: Co-auth, Economic effects of U.S. grades for lamb, Agr. Econ. Report 25, U.S. Dept. Agr, 63; Technological and market forces affecting vertical integration in the hog industry, Agr. Exp. Sta. Tech. Bull. 249, Univ. Minnesota, 65; auth, Changes in Argentinian agricultural production and productivity over the past 25 years, Int. Agr. Series 5, Univ. Minnesota, 67. Address: Ford Foundation, C.C. 4199, Buenos Aires, Argentina.

FIESER, DR. MAX E(UGENE), b. Wichita, Kans, Dec. 29, 30; m. 51; c. 2. ECONOMICS. B.A, Wichita, 55; M.A, Oregon, 57, Ph.D, 61. Assoc. economist, Midwest Res. Inst, 58; instr. econ, Arizona State, 58-59, asst. prof, 59-61; economist, U.S. Govt, 61-63; ASSOC. PROF. ECON, SACRAMENTO STATE COL, 63- Instr, Oregon, 60-61; asst. prof, George Washington, 62-63. Spec. consult, West. Mgt. Consults, Inc, Ariz, 59-60. U.S.A, 49-53, Sgt. Econ. Asn; Regional Sci. Asn. Foreign economic policy; economics of national security; soviet economic growth and development; fiscal theory and policy; regional economic development. Address: Dept. of Economics, Sacramento State College, 6000 J St, Sacramento, Calif. 95819.

FIFE, DR. LaVON SOELBERG, b. Idaho Falls, Idaho, May 23, 24; m. 50; c. 5. AGRICULTURAL ECONOMICS. B.S, Utah State, 50, M.S, 51; Ph.D.(agr. econ), Cornell, 53. Asst. prof. farm econ, Purdue, 53-54; admin. asst. prod. planning, Ford Motor Co, 54-56; AGR. ECONOMIST MGR. MKT. RES, INT. HARVESTER CO, 56- Chmn, Farm & Indust. Equip. Statist. Cmt, 66-; mem. Nat. Agr. Census Adv. Cmt, 67-69. U.S.N, 43-46, Lt.(jg). Agr. Econ. Asn; Mkt. Asn; Soc. Agr. Eng. Economic and marketing research related to planning and development of agricultural equipment; development of techniques of forecasting annual industry requirements of farm equipment. Publ: Changes affecting output on New York farms, Cornell Econ. Dept. Bull; Analysis of forage harvesting patterns on New York dairy farms, Cornell Exp. Sta. Bull. Address: International Harvester Co, 401 N. Michigan Ave, Chicago, Ill. 60611.

FIFIELD, PROF. RUSSELL H, b. Readfield, Maine, Feb. 21, 14. INTERNATIONAL RELATIONS. A.B, Bates Col, 35, LL.D, 63; A.M, Clark, 40, Ph.D, 42. Instr. hist, Springfield Col, 41-42; asst. prof. polit. geog, Missouri, 43-44; specialist hist. res, div. res. & pub, U.S. Dept. State, Wash, 44-45; Am. For. Serv. officer, China & Formosa, 45-47; asst. prof. POLIT. SCI, MICHIGAN, 47-49, assoc. prof, 49-54, PROF, 54- Fulbright res. prof, Philippines, 53-54; prof, Nat. War Col, 58-59; Guggenheim fel, 58-59; Coun. For. Rels. res. fel, 59-60; res. fel, St. Antony's Col, Oxford, 63-64; assoc. res, E.Asian Res. Center, Harvard, 67-68; Twentieth Century Fund fel, 67-69. Consult, U.S. Dept. State, 53-54, 67-, mem. panel adv, Bur. E.Asian & Pac. Affairs, 66- Secy. gen, Int. Cong. Orientalists, 66-67, mem. exec. cmt, 67- Polit. Sci. Asn; Hist. Asn.(George Louis Beer prize, 53); Soc. Int. Law; Asn. Asian Studies (secy, 61-63); Coun. For. Rels. Southeast Asia. Publ: Woodrow Wilson and the Far East, Crowell, 52; Diplomacy of Southeast Asia, 1945-1958, Harper, 58; Southeast Asia in United States policy, Praeger, 63. Address: Dept. of Political Science, University of Michigan, Ann Arbor, Mich. 48104.

FIGHTMASTER, WALTER J(OHN), Indust. & Eng. Psychol, see 11th ed. Phys. & Biol. Vols.

FIGLER, DR. HOMER R(UDOLPH), b. Rochester, N.Y, Apr. 3, 23; m. 47; c. 2. INDUSTRIAL PSYCHOLOGY. B.S, Rochester, 50; M.A, Maryland, 53, Ph.D. (psychol), 56. Counsr. & instr, Maryland, 54-56; staff psychologist, Psychol. Corp, N.Y, 56-59; ERNST & ERNST, 60-67, PRIN, 67- U.S.A, 42-46. Psychol. Asn. Personnel selection and placement; counseling; industrial training and safety; management development; organization. Address: Ernst & Ernst, 140 Broadway, Room 1600, New York, N.Y. 10005.

FIKS, DR. ALFRED I, b. Berlin, Germany, June 2, 31; U.S. citizen; m. 54; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 53; M.S, Pa. State, 54; Nat. Sci. Found. summer fel, Vermont, 60; Ph.D, Purdue, 62. Psychologist, U.S. Navy Med. Res. Inst, Md, summer, 55; human factors res. assoc, Martin Co, Md, 56-57; instr, Michigan Tech, 58-60; res. scientist, HumRRO, George Washington, 62-64, sr. scientist, 64-68; DIR, FIKS RES. ASSOCS, 67- Lectr, Sch. Gen. Studies, Univ. Virginia, 65- Consult, Defense Lang. Inst, 65; Peace Corps, 66- Psychol. Asn; Fedn. Am. Sci. Selection and training for cross-cultural effectiveness; foreign language learning; experimental design; programmed instruction; training evaluation; attitudes and motivation. Publ: A short Vietnamese language program: training course and research vehicle, Int. Rev. Appl. Ling, 66; Foreign language programmed materials: 1966, Mod. Lang. J, 67; A quantitative analysis of language training in the U.S. Peace Corps, Report P-68-01, Alexandria, Va, 68. Address: Fiks Research Associates, Hunting Towers West, Alexandria, Va. 22314.

FILBY, DR. YASUKO (MATSUOKA), b. San Francisco, Calif; m. 58; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Iowa, 53; fel, Indiana, 57-58, Ph.D. (psychol), 62. Res. asst. psychol, Indiana, 55-57; psychologist, Norweg. Res. Coun, Oslo, 61-62; res. psychologist, California, Los Angeles, 62-63; res. fel. psychol, Yale, 63-65; Nat. Inst. Ment. Health staff fel. psychopharmacol, St. Elizabeth's Hosp, Wash, D.C, 65-66; ASSOC. RES. SCIENTIST PSYCHOL, CREEDMOOR INST, 66- AAAS; Psychol. Asn. Psychopharmacology; programmed learning. Publ: Teaching machines: a review of theory and research, Nordisk Psychologi, 62; Variable-interval punishment during variable-interval reinforcement, J. Exp. Anal. Behav, 66; Magnesium pemoline: effect on acquisition and retention of discriminated avoidance behavior, Psychonomic Sci, 67. Address: Creedmoor Institute, Station 60, Queens Village N.Y. 11427.

FILE, DR. QUENTIN W(ILBERN), b. Cypress, Ill, Aug. 5, 18; m. 42; c. 4. INDUSTRIAL PSYCHOLOGY. B.Ed, Southern Illinois, 40; M.S, Purdue, 42, Ph.D.(indust. psychol), 44. Supvr. employ. testing & personnel res, Wright Aeronaut. Corp, 44-45; statist. consult. & voc. counsr, Vet. Admin. guid. center, Purdue, 45-46; asst. prof. indust. psychol, Tulsa, 46-47; job analyst, PAN AM. PETROL. CORP, 47-48, training supvr, 48-52, supvr. div. indust. rels, 52-64, recruiting coordinator, 64-65, EMPLOYEE SELECTION & DEVELOP. SUPVR, 65- Measurement of supervisory attitudes. Publ: How supervise?. Address: 5113 S. Irvington Ave, Tulsa, Okla. 74135.

FILER, DR. RICHARD N, b. Troy, Mich, June 20, 23; m. 43; c. 4. PSYCHOLOGY. Ph.D, Michigan, 51. Staff clin. psychologist, VET. ADMIN, 51-52, chief clin. psychol. serv, Vet. Admin. Center, Hot Springs, S.Dak, 52-56, chief domiciliary pilot study, Wood, Wis, 56-63, staff asst. to asst. chief med. dir, CENT. OFF, WASH, D.C, 63-64, CHIEF RES. IN PSYCHOL, 64- U.S.A, 42-45. Psychol. Asn; Geront. Soc. Clinical psychology; psychology of aging. Publ: An activity program for old persons in a sheltered living community, Geriatrics, 59; A useful contribution climate for the aging, 62 & Motivation of aging persons, 64, J. Geront. Address: 5903 Greenlawn Dr, Bethesda, Md. 20014.

FILER, PROF. ROBERT J(AMES), b. Pa, Dec. 21, 22; m. 42; c. 2. PSYCHOLOGY. A.B, Richmond, 42; M.A, Pennsylvania, 47, Ph.D.(psychol), 51. Instr. psychol, Pennsylvania, 49-51, asst. col. personnel officer, 48-51; asst. prof. PSYCHOL, Duke, 51-53; assoc. prof, RICHMOND, 53-63, PROF, 63-, chmn. dept, 60-64. Chief psychologist, Durham Guid. Clin, N.C, 51-53; dir, Carver & Filer, 55-58; Pres, Psychol. Consults, Inc, 58- Psychol. Asn. Industrial psychology; child behavior problems. Publ: Frustration, satisfaction and other factors affecting the attractiveness of goal objects, J. Abnorm. & Soc. Psychol; High cost of personnel, Va. Accountant; The scientific selection of agent-producers, Agency Bull, 62. Address: Dept. of Psychology, University of Richmond, Richmond, Va. 23173.

FILIPETTI, PROF. GEORGE, Bus. Econ, see 10th ed, Soc. & Behav. Vols.

FILLENBAUM, PROF. SAMUEL, b. Cologne, Germany, May 11, 32; nat; m. 59. EXPERIMENTAL PSYCHOLOGY. B.A, City Col. New York, 52; M.A, California, 54, Nat. Sci. Found. fel, 55-56, Ph.D.(psychol), 56. Res. assoc. PSYCHOL, McGill, 56-58; asst. prof, NORTH CAROLINA, 58-63, assoc. prof, 63-67, PROF, 67- U.S. Pub. Health Serv. spec. fel, center cognitive studies, Harvard, 64-65. Psychol. Asn; Psychonomic Soc. Psychology of language; problems of judgment; categorizing behavior; social psychology of experimental situation. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27515.

FILLEY, PROF. WALTER O(WEN), JR, b. New Haven, Conn, Sept. 22, 20; m; c. 1. POLITICAL SCIENCE. B.A, Yale, 42, M.A, 47, Ph.D, 50. Instr, Michigan, 49-51; asst. prof. govt, Wesleyan, 51-58; assoc. prof. POLIT. SCI, HARPUR COL, STATE UNIV. N.Y. BINGHAMTON, 58-62, PROF, 62- U.S.A, 42-45. Polit. Sci. Asn. International politics; American foreign policy; comparative government. Publ: Social structure and Canadian political parties: the Quebec case, West. Polit. Quart; contrib, International refugee organization. Address: Dept. of Political Science, Harpur College, State University of New York at Binghamton, Binghamton, N.Y. 13901.

FILMER-BENNETT, DR. GORDON THOMAS, b. New Westminster, B.C, June 4, 14; m. 56; c. 1. PSYCHOLOGY. B.A, British Columbia, 41, M.A, 46; Ph.D.(clin. psychol), Pittsburgh, 51. U.S. Pub. Health Serv. intern, Worcester State Hosp, 50-51; staff psychologist, Ft. Worth-Tarrant County Ment. Hyg. Clin, Tex, 51-52; chief psychologist, Lincoln State Hosp, Nebr, 52-55; asst. chief psychologist, Norfolk State Hosp, 55-58; asst. prof. psychol, Portland, 58-59, assoc. prof, 59-60; CHIEF PSYCHOLOGIST, WINNEBAGO STATE HOSP, 60- Instr, col. med, Nebraska, 56-58. Dipl, Am. Bd. Exam. Prfnl. Psychol, 63. Fel. Am. Psychol. Asn; fel. Soc. Proj. Tech; Can. Psychol. Asn. Validation of projective techniques; applicability of developmental criteria to an understanding of adult behavior. Publ: Rorschach as a means of predicting treatment outcome, J. Consult. Psychol; Some child therapy practices, J. Clin. Psychol; Levels of awareness in projective tests, J. Proj. Tech. Address: Box H, Winnebago, Wis. 54985.

FILPPU, PROF. KAARLO, b. Maynard, Mass, Jan. 28, 19; m. 41; c. 4. ECONOMICS. A.B, Denver, 48; M.A, Syracuse, 50. Cost acct, Riverside Div, Am. Writing Paper Corp, Mass, 40; inventory acct, East. Coop. Wholesale, Mass, 40-41; chief acct, Rochdale Consumer Coop, Inc, D.C, 41-42; ASSOC. PROF. ECON, STATE UNIV. N.Y. COL. BROCKPORT, 50- Lectr, Syracuse, 62-63. Intel.C, U.S.A, 43-45, 2nd Lt. Econ.Asn. Closed circuit television instruction in economics; economic theory; public finance and fiscal policy; government and business; consumer cooperative movement. Address: Dept. of Economics, State University of New York College at Brockport, Brockport, N.Y. 14420.

FILS, DR. DAVID H(ENRY), b. Turkey, Apr. 13, 13; nat; m. 42; c. 2. PSYCHOLOGY. B.S, City Col. New York, 39; M.S, Southern California, 48, Ph.D, 50. Psychologist, psychol. servs. center, California, Los Angeles, 46-50; dist. psychologist, Torrance Sch. Syst, Calif, 50-52; SPEC. ED. CONSULT, OFF. LOS ANGELES COUNTY SUPT. SCHS, 52- Lectr, Southern California, 50-51; asst. prof, Long Beach State Col, 55-58; lectr, California, Los Angeles, 59-; Fulbright prof, Lima, 66-67. Consult, Inst. Child Study, 50-51; pediat. div, Harbor Gen. Hosp, 51-55. Mem. Int. Coun. Except. Children. Med.C, 42-46, Capt. Psychol. Asn; Asn. Ment. Deficiency. Mental deficiency; diagnostic testing; psychotherapy; special education in South America. Publ: Co-auth, Developmental characteristics of trainable children, Los Angeles County Supt. Schs. Off, 66; Comparative performance of schizophrenics and normals on a test of symbol arrangement, Am. Psychologist; co-auth, Status special education in Peru, J. Nueva Educación, 67. Address: 2075 Robin Road, San Marino, Calif. 91108.

FILSON, PROF. THOMAS N(EWEL), b. Chico, Calif, Feb. 25, 33; m. 55. EDUCATIONAL PSYCHOLOGY. A.B, Chico State Col, 54; Ph.D, Minnesota, 57. Asst. prof. psychol. & ed, Hastings Col, 57-59; teacher, Hastings Pub. Schs, 59-60; asst. prof. ED, Western Illinois, 60-67; ASSOC. PROF, MICHI-

GAN, 67- Psychol. Asn. Classroom instruction and management; auto-instructional devices; behavior and teacher education. Publ: Instructional decision making, W.C. Brown, 67. Address: 6401 Samson Dr, Grand Blanc, Mich. 48439.

FILTER, DR. RAYMOND O, Psychol, see 10th ed, Soc. & Behav. Vols.

FINAN, PROF. AUSTIN L(EO), b. New York, N.Y, July 27, 17; m. 41; c. 5. ECONOMICS. A.B, Columbia, 37, A.M, 39. Instr. econ, City Col. New York, 39-41; PROF. FINANCE, ST. BONAVENTURE, 41- U.S.N.R, 43-46, Lt. Comdr. Econ. Asn; Statist. Asn. Monetary theory; population. Address: Dept. of Finance, St. Bonaventure University, St. Bonaventure, N.Y. 14778.

FINAN, DR. JOHN JOSEPH, Hist, Latin Am. Area Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FINAN, DR. JOHN LINCOLN, b. Waltham, Mass, Dec. 27, 11; m. 38; c. 1. PSYCHOLOGY. A.B, Harvard, 33; A.M, Duke, 37; univ. fel, Yale, 35-37, Ph.D.(psychol), 37. Instr. psychol, St. John's Col.(Md), 37-39; Illinois, 39-40; Oberlin Col, 40-42; physiologist, Nat. Insts. Health, U.S. Pub. Health Serv, Md. 42; asst. prof. psychol, Oberlin Col, 42-45, assoc. prof, 45-52, prof, 52-53; dep. dir. res, HumRRO, 51-61; coord, human pop. lab, State Dept. Pub. Health, Calif, 61-62; prof. PSYCHOL. & chmn. dept, George Washington, 62-67; PROF, CASTLETON STATE COL, 66- Consult. psychologist, U.S. Air Force, 48- Mem, Nat. Sci. Found. Facilities Panel, 63-65; Nat. Inst. Ment. Health Small Grants Cmt, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 42-45, Res, 46-, Lt. Col. Fel. AAAS; fel. Psychol Asn. Functions of frontal association areas of primate brain; motivational functions in mammals; human factors in systems design and analysis. Address: Castleton State College, Castleton, Vt. 05762.

FINCH, DR. EUGENE (BARROW), b. Allahabad, India, Nov. 17, 22; m. 53; c. 3. ECONOMICS. B.A, Allahabad, 43, M.A, 45; Ph.D.(econ), Syracuse, 55. Head dept. econ, Ewing Christian Col, Allahabad, 47-60; prin, Baldwin Boys' High Sch, Bangalore, India, 60-65; ASST. PROF. ECON, NORTH DAKOTA, 65- Economic development. Address: Dept. of Economics, University of North Dakota, Grand Forks, N.Dak. 58201.

FINCH, PROF. FRANK H(ERSCHEL), b. Salem, Mo, Apr. 5, 03; m. 30; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Missouri, 28; M.A, Washington (St. Louis), 30; Ph.D, Minnesota, 32. Res. assoc, inst. child welfare, Minnesota, 30-31, instr, col. ed, 31-35; dir. voc. rehab. & spec. ed, State Bd. Ed, Minn, 35-38; PROF. ED, ILLINOIS, URBANA, 38-, COORDINATOR GRAD. STUDY IN ED, 52- AAAS; Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn; Nat. Soc. Study Ed. Psychological measurement; prediction of student achievement; psychological problems of the physically handicapped. Publ: The Kuhlmann-Finch tests; Changes in mental level of secondary school population. Address: 504 W. Michigan Ave, Urbana, Ill. 61801.

FINCH, DR. GLEN, b. Portland, Ind, Oct. 23, 09. PSYCHOLOGY. A.B, DePauw, 30; A.M, Illinois, 31, fel, 31-35, Ph.D, 35. Nat. Res. Coun. fel, Phipps Psychiat. Clin, Hopkins, 35-36; asst. primate biol, Yale, 36-39, asst. prof. psychobiol, 39-42; aviation psychologist, U.S. Air Force, 42-54; exec. secy, Div. Anthrop. & Psychol, Nat. Acad. Sci-Nat. Res. Coun, 54-65; PROJ. SCIENTIST PSYCHOL, U.S.A.F. OFF. SCI. RES, 65- AAAS; Psychol. Asn. Experimental psychology; conditioned reflex; primate biology. Address: 7009 Leesville Blvd, Springfield, Va. 22151.

FINCHER, PROF. CAMERON LANE, b. Douglasville, Ga, Nov. 4, 26; m. 57; c. 4. PSYCHOLOGY. B.C.S, Georgia, 50; M.A, Minnesota, 51; Ph.D.(counseling psychol), Ohio State, 56. Instr. psychol, Ga. State Col, 51-54; asst, Ohio State, 54-56; asst. prof, Ga. State Col, 56-58, assoc. prof, 58-61, prof, 61-65, dir. testing & counseling, 56-65, surv. proj, 61-62; PROF. HIGHER ED. & ASSOC. DIR. INST, GEORGIA, 65- Summer, vis. prof, N.C. State Col, 59 & Emory, 60-61. U.S.N, 44-46. Psychol. Asn; Asn. Instnl. Res. Planning and development of higher education; scientific and technical manpower; institutional research; measurement and evaluation; learning; improvement of teaching. Publ: Nursing and paramedical personnel in Georgia, Ga. State Col, 62; A preface to psychology, Harper, 64; The junior college transfer student in Georgia colleges, Univ. Georgia Inst. Higher Ed, 67. Address: Institute of Higher Education, University of Georgia, Athens, Ga. 30601.

FINCKE, DR. GUY EDWARD, b. Philadelphia, Pa, Mar. 18, 39; m. 68. INDUSTRIAL PSYCHOLOGY. B.S, Ursinus Col, 61; M.A, Temple, 63; Ph.D. (indust. psychol), Purdue, 67. SR. RES. PSYCHOLOGIST, WEST. ELEC. CO, 66- Psychol. Asn. Systems design and analysis; employee training and development, selection and placement; morale and attitude surveys; organizational analysis; criterion development; autobiographical correlates of performance. Address: Western Electric Co, P.O. Box 900, Princeton, N.J. 08540.

FINDLAY, DR. DONALD CHARLES, b. Springfield, Mo, July 2, 22; m. 49; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Phillips, 47; M.A, Tulsa, 48; Ph.D.(ed. psychol), Texas, 53. Res. scientist, HumRRO, George Washington, 52-56; human factors scientist, Syst. Develop. Corp, 56-60, sr. European rep, 60-63, assoc. br. head syst. training & opers, 64-65, br. head, 65-67; MGR. PROG. DEVELOP, REGIONAL ED. DEVELOP, APPALACHIA ED. LAB, INC, 67- Ed. Res. Asn; Psychol. Asn; Research Soc. Development, application, and management of training/educational systems; cross-cultural training and education. Publ: Co-auth, Social status and abstract behavior, J. Abnorm. & Soc. Psychol, 57; Ability grouping in Army basic combat training, J. Appl. Psychol, 57; Identification of the important skills in daylight land navigation, HumRRO Tech. Report 40, 67. Address: Appalachia Educational Lab, Inc, P.O. Box 1348, Charleston, W.Va. 25325.

FINDLAY, DR. JAMES, JR, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FINDLEN, DR. PAUL J(OSEPH), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

FINDLEY, PROF. WARREN G(EORGE), b. New York, N.Y, Sept. 23, 06; m. 29; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Princeton, 27; M.A, Columbia, 29, Ph.D.(ed. psychol), 33. Asst. psychologist in charge of student personnel, Cooper Union, 27-38; asst. dir, div. exams. & testing, N.Y. State Dept. Ed, 38-46; chief eval. br, ed. adv. staff, Air Univ, 46-48; dir. test develop, Ed. Testing Serv, 48-53, eval. & adv. serv, 53-56; asst. supt. pupil personnel servs, Atlanta Sch. Syst, 56-61; PROF. ED, GEORGIA, 61-, PSYCHOL, 63-, DIR. RES. & DEVELOP. CENTER ED. STIMULATION, 65-, coordinator ed. res, 62- Psychologist, induction sta, U.S. Dept. Army, Albany, N.Y. 42; suprv. Test develop, U.S. Armed Forces Inst, Minnesota, 44. Consult, Ford Found, Pakistan 64. Mem. res. adv. coun, U.S. Off. Ed, 59-62. AAAS; Psychol. Asn; Psychomet. Soc; Coun. Measurement in Ed.(pres, 53-54); Ed. Res. Asn; Personnel & Guid. Asn. Educational measurement and evaluation; sociometry; curriculum development. Publ: Ed. & co-auth, Impact and improvement of school testing programs, Nat. Soc. Study Ed, Univ. Chicago, 63; auth, A rationale for evaluation of item discrimination statistics, Ed. & Psychol. Measurement, 56; Group vs. individual sociometric relations, Int. J. Sociometry & Sociatry, 66. Address: 108 Colonial Dr, Athens, Ga. 30601.

FINE, DR. BERNARD J(ACOB), b. Hartford, Conn, Nov. 2, 26; m. 57; c. 2. PSYCHOLOGY. B.S, Am. Int. Col, 51; M.S, Boston, 52, M.A, 53, Ph.D.(soc. & personality psychol), 56. Asst. study dir, div. res, Boston, 51-56; res. psychologist, Qm. Res. & Eng. Center, 56-59, chief, psychophysiol. sect, psychol. br, 59-61, Behav. Sci. Br, U.S. ARMY INST. ENVIRONMENTAL MED, 61-64, HEAD, PHYSIOL. PSYCHOL. GROUP, BEHAV. SCI. LAB, 64- U.S.A, 45-46, Sgt. AAAS; fel. Psychol. Asn; Research Soc. Social and psychological variables in physical environment; psychophysiological behavior under climatic stresses; interrelationships of psychological, physiological and biochemical responses to stressors. Publ: Relationship of individual personality variables and body temperature response patterns in the cold; co-auth, Socio-economic background, aggression and catecholamine excretion, Psychol. Reports, 67 & Personality traits, situational factors and catecholamine excretion, J. Exp. Res. Personality, 68. Address: Behavioral Sciences Lab, U.S. Army Research Institute of Environmental Medicine, Natick, Mass. 01760.

FINE, CLARENCE B(ARNETT), b. New York, N.Y, Dec. 23, 13; m. 39; c. 2. MATHEMATICAL STATISTICS. B.S.S, City Col. New York, 40; M.A, American Univ, 49. Statistician & economist, Off. Price Admin, 41-46; sampling expert, U.S. Bur. Old-Age & Survivors Ins, 46-49; math. statistician, INTERNAL REVENUE SERV, 49-55, CHIEF opers. anal. br, appellate div, 55-60, math. statist. audit div, 60-63, MATH. STATIST. TECH. & STANDARDS STAFF, STATIST. DIV, 63- U.S.N.R, 44-45, Ens. Statist. Asn; Inst. Math. Statist. Sampling methods; probability theory; electronic high speed digital computers; revolving credit sampling plans; error detecting and correcting codes. Address: 12617 Springloch Court, Silver Spring, Md. 20904.

FINE, DR. HAROLD J, b. Bloomfield, N.J, July 15, 25; m. 51; c. 2. CLINICAL PSYCHOLOGY. B.A, Wayne, 48, M.A, 49; Ph.D, Syracuse, 53. Intern, U.S. Pub. Health Serv, Worcester State Hosp, Mass, 52-53; clin. psychologist, psychol. serv, Vet. Admin. Hosp, Palo Alto, Calif, 53-54; Vet. Admin. Ment. Hyg. Clin, Conn, 54-61; dir. psychol. serv, Honig-Fine Clin. & Treatment Center, 61-62; co-dir, Del. Valley Ment. Health Found, Pa, 62-67; ASSOC. PROF. PSYCHOL, TENNESSEE, 67- Fel. psychol, Stanford, 53-54; adj. assoc. prof, Bridgeport, 55-61. Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. U.S.A, 43. Psychol. Asn. Evaluation of psychotherapy; schizophrenia and ego psychology; cognitive functioning in schizophrenia; infantile autism; psychology in community setting. Publ: Clinical evaluation in psychotherapy, J. Gen. Psychol; Process-reactive schizophrenia and genetic level of perception & Personality change in a group therapy, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37916.

FINE, PROF. ISADORE V, b. Columbia, Mo, May 23, 18; m. 45; c. 2. BUSINESS ADMINISTRATION. B.S, Rhode Island, 42; M.S, Columbia, 47, Ph.D. (bus. admin), 52. PROF. MKT, WISCONSIN, 47- U.S.A.F, 42-46, Res, 46-, Lt. Col. Mkt. Asn. Industrial purchasing; recreational industries and services. Publ: Co-auth, Industrial purchasing, Wiley, 55, 61, 68. Address: Dept. of Marketing, Graduate School of Business, University of Wisconsin, Madison, Wis. 53706.

FINE, PAUL A, b. Pueblo, Colo, Sept. 26, 20; m. 61; c. 2. SOCIAL PSYCHOLOGY. B.A, New Sch. Soc. Res, 48, M.A, 53. Res. assoc. sociol, Rutgers, 51-53, instr. sociol. & psychol, 52-55; assoc. ed, Motivations, Inst. Motivational Res, 55-57, head data processing sect, 56-57; exec. v.pres. & dir. res, Center for Res. in Mkt, Inc, 57-60; PRES, PAUL A. FINE ASSOCS, 60- Lectr, Briarcliff Col, 57-59; Douglass Col, Rutgers, 62-65. Consult, Textile fibers dept, E.I. Du Pont de Nemours, Inc, 60-; Pillsbury Co, 60-; Youth Opportunity Bd. Greater L.A, 63-64; Consol. Electrodynamics, 65. U.S.A.A.F, 41-46, 1st Lt. Psychol. Asn; Sociol. Asn; Am. Acad. Arts & Sci. Communications; process analysis; theory symbolic meanings and functions of everyday objects and the materials produced for mass communication. Publ: Collab, Sociological studies in scale analysis; Neighbors of the president, President's Cmt. Juvenile Delinquency, Dept. Health, Ed. & Welfare, 5/63. Address: 401 E. 86th St, 2B, New York, N.Y. 10028.

FINE, DR. REUBEN, b. New York, N.Y, Oct. 11, 14; m. 46; c. 1. PSYCHOLOGY. B.S, City Col. New York, 33, M.S, 39; Ph.D.(psychol), Southern California, 48. Instr. psychol, City Col. New York, 48-53, vis. prof, 53-61; ATTEND. PSYCHOLOGIST & SUPVR. PSYCHOTHER, DIV. PSYCHIAT, ELMHURST GEN. HOSP, 61- Clin. psychologist, Vet. Admin, New York, 48-; private practice, 53-; pres, Inst. Psychoanal. Training & Res; vis. prof, Amsterdam, 61; dir, Center Creative Living, 62-; dir. training, Metropolitan Inst. Psychoanal. Studies, 63- Consult, U.S. Navy. Fel. Psychol. Asn; fel. Soc. Proj. Tech. & Personality Assessment; Psychol. Asn. for Psychoanal.(v.pres). Projective tests of personality; nature of psychotherapy. Publ: Psychology of the chess player, Dover, 66; A scoring scheme for the TAT, J. Proj. Tech; Freud: a critical reevaluation. Address: 225 W. 86th St, New York, N.Y. 10024.

FINE, DR. SHERWOOD MONROE, b. New York, N.Y, Aug. 11, 14. ECONOMICS. B.A, N.Y. Univ, 36; M.A, Columbia, 38, Ph.D, 43; Littauer fel, Harvard, 39. Economist, U.S. Dept. Treasury, Off. Strategic Servs. & For. Econ. Admin, 38-45; dir. econ. & planning, Supreme Command Allied Powers, Japan, 45-52, chief, econ. div, 52-54, adv. soc. sci, 55-57; acting chief econ. affairs br, U.S. Dept. Army, 57-58; chief, Cambodia-Laos-Thailand-Vietnam Div, Int. Coop. Admin, 58-62; dir. develop. dept, Orgn. Econ. Coop. & Develop, 62-66; DIR. OFF. INDONESIAN AFFAIRS, AGENCY INT. DEVELOP, 66- Lectr, Maryland, 56-60. Econ. consult, P.R. Indust. Develop. Corp, 54-56. Econ. Asn. Far Eastern economic problems; economic development; fiscal policy. Publ: Japan's postwar industrial recovery; Public spending and postwar economic policy; Economic growth in the less developed countries, Orgn. Econ. Coop. & Develop. Observer, 8/63. Address: 2128 Wyoming Ave. N.W, Washington, D.C. 20008.

FINE, DR. SIDNEY A(LBERT), b. New York, N.Y, Sept. 18, 15; m. 39; c. 4. PSYCHOLOGY. B.S.S, City Col. New York, 36, M.S.E, 41; Ph.D, George Washington, 62. Clin. psychologist, Rikers Island Hosp. & Penitentiary & Bd. Ed, New York, 37-40; occup. analyst psychol, U.S. Dept. Labor, D.C, 40-50, job classification adv, 50-59, consult, 59-65; personnel consult, appl. physics lab, Hopkins, 59-63; sr. scientist, Human Sci. Res, Va, 63-65; res. assoc. int. occup. classification, Int. Labor Off, Geneva, Switz, 65-66; SR. STAFF MANPOWER RES, W.E. UPJOHN INST. EMPLOY. RES, 66- Instr, George Washington, 58-; guest lectr, Univ. Minnesota & Nat. Defense Guid. Insts, 59-60. Dir. rehab. res, behav. sci. res. br, St. Elizabeths Hosp, D.C, 61-63. Consult, Off. Ed, 66- U.S.A.A.F, 43-45, Sgt. Psychol. Asn; Personnel & Guid. Asn.(res. award, 59); Indust. Rels. Res. Asn; Asn. Comput. Mach. Job analysis; personnel systems; occupational information. Publ: Guidelines for the design of new careers, Upjohn, 67; USES occupational classification and Minnesota occupational rating scales, J. Counseling Psychol; Matching job requirements and worker qualifications, Personnel. Address: 1711 Massachusetts Ave. N.W, Washington, D.C. 20036.

FINEGAN, DR. T(HOMAS) ALDRICH, b. Long Beach, Calif, Sept. 1, 29. ECONOMICS. A.B, Claremont Col, 51; univ. fels, Chicago, 51-53, 57-58, 59-60, A.M, 53, Ford Found fel, 58-59, Ph.D.(econ), 60. Asst. prof. ECON, Princeton, 60-64; VANDERBILT, 64-65, ASSOC. PROF, 65- U.S.N.R, 54-57, Lt. Econ. Asn; Indust. Rels. Res. Asn. Labor economics; economics of labor force participation. Publ: co-auth, Labor force participation and unemployment, In: Employment policy and the labor market, Univ. California, 65; auth, Hours of work in United States: cross-sectional analysis, J. Polit. Econ, 10/62. Address: P.O. Box 1526, Station B, Vanderbilt University, Nashville, Tenn. 37203.

FINESTONE, DR. HAROLD, b. Montreal, Que, Oct. 20, 20; U.S. citizen. SOCIOLOGY. B.A, McGill, 42, M.A, 43; Marshal Field fel, Chicago, 47, Ph.D. (sociol), 64. Res. sociologist, Ill. Inst. Juvenile Res, 57-64; ASSOC. PROF. SOCIOL, McMaster, 64-66; MINNESOTA, MINNEAPOLIS, 66- Instr. Univ. Chicago, 59-64. AAAS; Sociol. Asn; Soc. Study Social Probs. Deviant behavior; minority group problems. Publ: Narcotics and criminality, Law & Contemporary Probs, winter 57; Cats, kicks, and color, Soc. Probs, 7/57; Reformation and recidivism among Italian and Polish criminal offenders, Am. J. Sociol, 5/67. Address: Dept. of Sociology, University of Minnesota, Minneapolis, Minn. 55455.

FINGAR, DR. RALPH WARREN, Psychol, see 10th ed, Soc. & Behav. Vols.

FINGER, DR. FRANK W(HITNEY), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

FINIFTER, DR. ADA WEINTRAUB, b. New York, N.Y, June 6, 38; m. 60. POLITICAL SCIENCE. B.A, Brooklyn Col, 59; fel, Michigan, 59-60, M.A, 61; Nat. Sci. Found. fel, Wisconsin, 66-67, Ph.D.(polit. sci), 67. ASST. PROF. POLIT. SCI, MICH. STATE, 67- Polit. Sci. Asn. Public opinion; political behavior; research methodology. Address: 225 Haslett St, East Lansing, Mich. 48823.

FINK, PROF. ABEL K(ING), b. New York, N.Y, Aug. 5, 27; m. 59. EDUCATIONAL PSYCHOLOGY. B.A, Brooklyn Col, 49, M.A, 50; Ed.D, Columbia, 56. Teacher, private schs, Conn, 52-55; ed. consult, 55-56; asst. prof. ED, STATE UNIV. N.Y. COL. BUFFALO, 56-60, assoc. prof, 60-65, PROF, 65- Vis. prof. psychol, sch. soc. sci, Puerto Rico, 64-65. Psychol. consult, Vet. Admin. Hosp, 59. Psychol. Asn; Soc. Group Psychother. & Psychodrama; Soc. Psychol. Study Social Issues; Ed. Res. Asn. Child development; group dynamics; role playing, sociodrama and psychodrama; educational television; culturally deprived. Publ: Case for the open psychodramatic session, Group Psychother; The democratic essence of psychodrama, Group Psychother, 63; A sociodrama on race relations, Int. J. Sociometry & Sociatry, 64. Address: 1300 Elmwood Ave, Buffalo, N.Y. 14222.

FINK, PROF. ARTHUR E(MIL), b. Philadelphia, Pa, Jan. 20, 03. SOCIOLOGY. A.B, Pennsylvania, 24, A.M, 30, Ph.D, 36; M.S.W, Pa. Sch. Soc. Work, 37. Instr. sociol, Pennsylvania, 30-33, 35-38; headworker, Univ. Settlement House, Phila, 33-34; asst. dir, Inter-Agency Coun. Youth, 34-35; prof. soc. work & dir. soc. work training, Georgia, 38-41; regional supvr, Fed. Security Agency, 41-45; dean sch. soc. work, NORTH CAROLINA, CHAPEL HILL, 45-65, PROF. SOC. WORK, 45- Fulbright prof, Birmingham, 51-52. Psychiat. soc. worker, Phila. Child Guid. Clin, 35-36; conf. leader, in-serv, training conf, U.S. Probtn. Serv, Kentucky, Wisconsin, California, Southern Methodist & Emory, 40-41. Sociol. Asn. Causes of crime; social work. Publ: Field of social work, 5th ed, Holt, 68. Address: 812 Woodland Ave, Chapel Hill, N.C. 27514.

FINK, DR. CHARLES DENNIS, b. Medford, Mass, July 28, 26; m. 50. EXPERIMENTAL PSYCHOLOGY. B.A, Maine, 50; M.A, Colorado, 54, Ph.D.(psychol), 58. Asst. psychologist, Jackson Mem. Lab, Maine, 50-51; res. scientist, HumRRO, GEORGE WASHINGTON, 58-62, sr. scientist, 62-67, SR. STAFF SCIENTIST, 67- U.S.N, 44-46. Psychol. Asn; Document. Inst. Problem solving, especially trouble shooting; decision making; operations research; application of learning theory to educational settings; development and application of training technology; job and operations analysis; information science. Address: HumRRO, George Washington University, 300 N. Washington St, Alexandria, Va. 22314.

FINK, DR. CLINTON F(REDERICK), b. Cleveland, Ohio, Mar. 12, 33; m. 58. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Swarthmore Col, 55; Nat. Sci. Found. fel, Michigan, 56-57, Nat. Inst. Ment. Health fel, 60-61, Ph.D.(soc. psychol), 62. U.S. Pub. Health Serv. training grant fel, Ment. Health Res. Inst, MICHIGAN, 61-63, asst. res. soc. psychologist, 62 & 63-64, res. assoc, Sch. Pub. Health, 64-65, lectr. sociol, 65, ASSOC. RES. PSYCHOLOGIST, CENTER RES. CONFLICT RESOLUTION, 65- Nat. Sci. Found. res. grants, 65-66 & 67-68. Sociol. Asn; Philos. Sci. Asn; Soc. Psychol. Study Soc. Issues. Social perception; small group processes; general theory of social conflict; effects of social conflict; history of social science; philosophy and sociology of social science. Publ: Co-auth, Models of group problem solving, J. Abnorm. & Soc. Psychol, 7/61 & Effects of group size, Psychol. Bull, 7/63; auth, More calculations about deterrence, J. Conflict Resolution, 3/65. Address: 610 Huron View Blvd, Ann Arbor, Mich. 48103.

FINK, PROF. HAROLD KENNETH, b. East Orange, N.J, Oct. 15, 16; m. 60. EDUCATION, PSYCHOLOGY. A.B, Princeton, 38; M.S, Calif. Inst. Tech, 41; Sage fel, Cornell, 42-43, Ph.D.(psychol), 43; W.A. White Inst, 46-47. In charge exp. psychonutrit. lab, Cornell, 42; with Navy audition proj, Nat. Defense Res. Cmt, 43; exec. personnel dept, Macy's of N.Y, 45-46; asst. dir, Re-ed. Center, 46; instr, Pace Col, 47-49; psychotherapist, N.Y. Consult. Center, 49-50; consult. & group therapist, Convent Ave. Guid. Center, 53; Drug Addicts Anonymous, 53-54; group therapist religio-psychiat. clin, Am. Found. Relig. & Psychiat, 56-57; founder & dir, marriage counseling serv, Palm Beach County Guid. Center, Fla, 57-58; INSTR, BROWARD COUNTY BD. PUB. INSTR, 60-; PROF. PSYCHOL. & PHILOS, CHMN. DEPT. & DIR. GUID. DEPT, DRAKE COL. FLA, 67- Private practice, N.Y, 46-50, 53-57; Calif, 51-53; Fla, 57-62. Assoc. psychologist & instr, Postgrad. Center Ment. Health, N.Y, 48-50; counsr, Sci. Marriage Found, 60-62; instr, wood sculpture, Plantation Workshop Creative Arts, Fla, 66. Mem. adv. bd, Drake Col. Fla, 62- Med. Serv.C, 43-45, Lt.(jg). N.Y. Acad. Sci; Acad. Relig. & Ment. Health. Factors in marital failure in the United States; effects of alcoholism and compulsive gambling on the integrity of the family. Publ: Mind and performance, Vantage, 54; Long journey, Julian 54; contrib. ed,Real life guide, 57-64. Address: 2206 N.E. 15th Ave,Wilton Manors, Fla. 33305.

FINK, DR. HOWARD H, b. Chicago, Ill, July 7, 24; m. 50; c. 3. PSYCHOLOGY. B.S, Ill. Inst. Tech, 48, M.S, 50; Ph.D.(psychol), Mich. State, 53. Chief psychologist, Ingham County Rehab. Center, 53-56; chief psychologist & dir. res, Dayton Childrens Psychiat. Hosp, 57-64. Lectr, Mich. State, 52-56. Private practice, 60-; consult, dept. psychiat, Wright-Patterson Air Force Base Hosp, 60- U.S.A, 43-46. Psychol. Asn; fel. Gerontol. Soc; Acad. Psychother; Group Psychother. Asn. Clinical psychology; psychodiagnosis; psychotherapy; child development; group psychotherapy. Address: 3212 Windingway, Kettering, Ohio 45419.

FINK, DR. MARTIN BERTRAM, b. Boston, Mass, Aug. 15, 21; m. 46; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Northeastern, 48; M.A, California, 52, Ph.D, 61. Teacher, Richmond Sch. Dist, 50-53; ment. retarded class, Mt. Diablo Unified Sch. Dist, 53-54; sch. psychologist, Stanislaus County Schs, 54-58; Mt. Diablo Unified Sch. Dist, 58-66; FIELD ASSESSMENT & SELECTION OFFICER, PEACE CORPS, 64- Consult, Mt. Diablo Ther. Center, 66-; lectr, St. Mary's Col.(Calif), 66- U.S.A.A.F, 42-45, Sgt. Psychol. Asn. School psychology. Publ: Ethnocentrism as it relates to teaching success, Self concept as it relates to academic underachievement & Objectification of some of the data employed in a study of underachievement as it relates to self concept, Calif. J. Ed. Res. Address: 3713 Merridan Dr. Concord, Calif. 94520.

FINK, DR. RAYMOND, b. New York, N.Y, Apr. 21, 27; m. 61. SOCIAL PSYCHOLOGY, STATISTICS. B.B.A, City Col. New York, 47; M.A, Denver, 49; Ph.D, Cornell, 56. Statistician, opinion res. center, Denver, 48-49; soc. analyst, bur. census, U.S. Dept. Commerce, 49-50, surv. statistician, 56; res. assoc, HumRRO, George Washington, 52-53; Bur. Soc. Sci. Res. Inc. D.C, 57-60; ASSOC. DIR, drinking practices study, div. alcoholic rehab. State Dept. Pub. Health, Calif, 60-62; DIV. RES. & STATIST. HEALTH INS. PLAN OF GREATER NEW YORK, 62- Consult, drinking practices study, Ment. Res. Inst, Calif, 62-; soc. res. unit, George Washington, 65-; chmn, soc. sci. cmt, Planned Parenthood Fed. Am, 66-; consult, cancer control prog, Nat. Center Chronic Disease Control, 67- U.S.A, 50-52, Sgt. Sociol. Asn; Asn. Pub. Opinion Res; Soc. Study Social Probs; Pub. Health Asn. Attitude change; surveys in underdeveloped areas; alcohol and public health. Publ: Survey research in the kingdom of Laos, Int. Soc. Sci. J; co-auth, Patterns of medical care related to mental illness, J. Health & Human Behav, summer 66 & Treatment of patients designated by family doctors as having emotional problems, Am. J. Pub. Health, 9/67. Address: Health Insurance Plan of Greater New York, 625 Madison Ave, New York, N.Y. 10022.

FINK, DR. STEPHEN LEONARD, Psychol, see 10th ed, Soc. & Behav. Vols.

FINK, PROF. WILLIAM H, b. Findlay, Ohio, May 2, 11. ECONOMICS. B.S, Ohio State, 32; M.A, California, 48, Ph.D.(econ), 54. Lectr. ECON, California, 51-52; asst. prof, ARIZONA, 54-58, assoc. prof, 58-62, PROF, 62- U.S.N, 42-46. Econ. Asn. International economic relations; money and banking; economic theory. Publ: Latin America's capacity to import and the gains from trade, Inter-Am. Econ. Affairs; International capital movement: the concept and measurement, Proc. Conf. West. Econ. Asn; Foreign aid and the current dollar surplus, West. Econ. J, fall 65. Address: 1323 E. Elm St, Tucson, Ariz. 85719.

FINKE, PROF. MADGE AXFORD, b. Gracie, Nebr, Aug. 8, 09; m. 39; c. 2. SOCIOLOGY. A.B, Nebr. Wesleyan, 38; A.M, Chicago Theol. Sem, 43. Pub. sch. teacher, 28-36; dir. Christian ed, First Methodist Church, Lincoln, Ill, 36-38; youth dir, Woodlawn Methodist Church, Chicago, Ill, 38-40; ASST. PROF. SOCIOL. & RELIG. ED, AURORA COL, 45- Rep. from Family Life Cmn. to White House Conf. Children & Youth, D.C, 60; mem, Family Life Cmn. Nat. Coun. Churches; bd, YWCA. Sociol. Asn. Christian education. Publ: Study of growth. Address: 609 Calumet, Aurora, Ill. 60506.

FINKEL, E(UGENE) JAY, b. Philadelphia, Pa, June 21, 31; m. 58; c. 2. ECONOMICS. B.A, Swarthmore Col, 52; M.A, George Washington, 61, LL.B, 65. Economist, Brit. Commonwealth & Middle East Div, off. int. finance, U.S. TREAS. DEPT, 52-55, asst. to sr. financial adv, 58-61, exec. secy, 61-63, dep. dir. off. int. financial policy coord. & opers, 63-67, DIR. OFF. LATIN AM, 67- U.S. Del. adv. & secy, Int. Monetary Fund, Int. Bank, Int. Finance Corp. & Int. Develop. Asn, 59-67, Inter-Am. Develop. Bank, 64-, Asian Develop. Bank, 65-66. U.S.N.R, 55-58, Res, 58-, Lt. Comdr. Econ. Asn. International balance of payments problems; economic development in less-developed areas; international monetary and financial institutions; Latin American economics and finance. Address: 4316 Van Ness St. N.W, Washington, D.C. 20016.

FINKELSTEIN, LAWRENCE S(TANLEY), b. New York, N.Y, Mar. 11, 25; m. 51; c. 1. GOVERNMENT, PUBLIC LAW. A.B, Columbia, 44, A.M, 47. Asst. & lectr. govt, Columbia, 47-49; mem. staff, Coun. For. Rel, 49-50; Soc. Sci. Res. Coun. fel, Inst. Pacific Rel, 50-51; prog. dir, Carnegie Endowment Int. Peace, 52-57, dir. studies, 57-63, v.pres, 59-65; dep. asst. secy, int. security affairs, U.S. Dept. Defense, 65-66; dir, Case-Western Reserve Univ. Study Cmn, 66-67; ACTING DEAN GRAD. SCH. ARTS & SCI. & ASSOC. DEAN ACAD. ADMIN, BRANDEIS, 67- Lectr, Columbia, 60-61; vis. res. assoc, center int. affairs, Harvard, 61-62. Consult, int. orgn, U.S. Dept. State, 62-65; Inst. Defense Anal, 62-67; off. int. security affairs, U.S. Dept. Defense, 66- Polit. Sci. Asn; Soc. Int. Law; Coun. For. Rels; Int. Studies Asn; Inst. Strategic Studies. Dependent territories and trusteeship; international organization; arms control; North Atlantic political military affairs. Publ: Co-auth, Collective security, Chandler Pub, 65; auth, Arms inspection, Int. Conciliation, 11/62. Address: 4 Upland Rd, Lexington, Mass. 02173.

FINKLE, DR. JASON L(EONARD), Pub. Admin, see 10th ed, Soc. & Behav. Vols.

FINKLE, DR. ROBERT B(UNKER), b. Akron, Ohio, Mar. 14, 22; m. 45; c. 4. PSYCHOLOGY. A.B, Oberlin Col, 46; M.S, Pittsburgh, 48, Ph.D.(psychol), 49. Res. psychologist selection & eval, Metrop. Life Ins. Co, 49-61; MGR. ORGN. PLANNING, STANDARD OIL CO.(OHIO), 61- Psychol. Asn. Business and industrial administration. Publ: Study of the critical requirements of foremanship. Address: 956 Aintree Park Dr, Cleveland, Ohio 44143.

FINKNER, DR. A(LVA) L(eROY), Statist, see 11th ed, Phys. & Biol. Vols.

FINLAY, DR. DAVID J(AMES), b. Silverton, Ore, Nov. 24, 34; m. 62. POLITICAL SCIENCE. B.A, Willamette, 56; Danforth fel, Stanford, 56-62, M.A, 58, Ford Found. fel, 61-62, Ph.D.(polit. sci), 62. Lectr. POLIT. SCI, Univ. Ghana, 62-63; Studies in Int. Conflict & Integration res. fel, Stanford, 64; asst. prof, Duke, 64-65; OREGON, 65-68, ASSOC. PROF, 68- Off. Sci. & Scholarly Res. awards, Univ. Oregon, 66-67; res. fel, West. Behav. Sci. Inst, 67-68. Consult, Danforth Found, 64-66. Fel. African Studies Asn; Polit. Sci. Asn. International politics; Africa south of the Sahara; political behavior. Publ: Co-auth, Enemies in politics, Rand McNally, 67; auth, The Ghana Coup, Trans-action, 5/67; Students & politics in Ghana, Daedalus, winter 67-68. Address: Dept. of Political Science, University of Oregon, Eugene, Ore. 97403.

FINLAY, JAMES C, S.J, b. Roscommon, Ireland, Aug. 29, 22; U.S. citizen. POLITICAL SCIENCE. A.B, Loyola (Ill), 46; Ph.L, West Baden Col, 48; M.A, Georgetown, 51; S.T.L, Col. Immaculate Conception (Que), 55; Lilly Found. summer res. fel, 59; French Govt. & Fulbright travel grants, 59-60; Ph.D.(polit. sci), Duke, 60. Instr. POLIT. SCI, FORDHAM, 60-61, ASST. PROF, 61-, CHMN. DEPT, 64-, acting chmn, 63. Polit. Sci. Asn. Political theory; urban government and politics, particularly in welfare. Publ: The liberal who failed, World, 68. Address: Dept. of Political Science, Fordham University, Bronx, N.Y. 10458.

FINLEY, DR. CECILE BOLTON, b. Charlottesville, Va, Sept. 14, 97; m. 35. PSYCHOLOGY. B.A, Bryn Mawr Col, 21; Columbia, 23; M.A, Virginia, 31, Ph.D.(psychol), 35; Cambridge, 37-38. Psychologist, neuropsychiat. & child guid. clin, univ. hosp, Virginia, 36-37; instr. psychol, Sweet Briar Col, 39-42; acting asst. prof, Virginia, 42-47; assoc. prof. & head dept, Hollins Col, 48-51; sch. psychologist, Montgomery County, Md, 51-62; RETIRED. Fel. Psychol. Asn. Underachieving gifted children; brain localization; electrophysiology; social maturity. Publ: Equivalent losses in the accuracy of the responses of animals after central and after peripheral sense deprivation, J. Comp. Neurol; Effect of temperature upon dorsal root potentials in the spinal cord of the frog, J. Physiol; Social opinions inventory as a measure of social maturity, Child Develop. Address: 1535 Dairy Rd, Charlottesville, Va. 22903.

FINLEY, DR. DAVID D(EWEES), b. Indianapolis, Ind, Nov. 4, 33; m. 59; c. 3. POLITICAL SCIENCE. B.A, U.S. Mil. Acad, 55; M.A, Stanford, 61, Ph.D. (polit. sci), 66. Instr. POLIT. SCI, COLO. COL, 63-65, ASST. PROF, 65- Res. assoc, Stanford Studies of Communist Syst, 63-, asst. dir, 66-67; vis. asst. prof, Stanford, 66-67. U.S.A, 55-58, Res, 58-65, Capt. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Int. Studies Asn. Soviet politics; international relations. Publ: Co-auth, Soviet foreign policy, Macmillan, 68; auth, A political perspective of economic relations in the Communist camp, West. Polit. Quart, 64; co-auth, Soviet American relations, J. Conflict Resolution, 65. Address: Dept. of Political Science, Colorado College, Colorado Springs, Colo. 80903.

FINLEY, PROF. R(OBERT) M(cLAREN), b. Vilas, Colo, May 10, 27; m. 49; c. 1. AGRICULTURAL ECONOMICS. B.S, Kansas State, 50, M.S, 53; Ph.D, Illinois, 57. Exten. economist, Illinois, 55-57; asst. prof. AGR. ECON, Nebraska, 57-62, assoc. prof, 62-63; PROF, MISSOURI, 63-, ASST. CHMN. DEPT. 67- U.S.N, 45-46. Econ. Asn; Agr. Econ. Asn; Agr. Hist. Soc; Asn. Latin Am. Studies. Production economics; economic development. Address: Dept. of Agricultural Economics, University of Missouri, Columbia, Mo. 65201.

FINLEY, PROF. ROBERT W(ILLIAM), b. Jackson, Mo, Feb. 24, 11; m. 48; c. 2. GEOGRAPHY. B.Ed, Southern Illinois, 34; M.Ph, Wisconsin, 38, Whitbeck fel, 41-42, Ph.D, 51. Asst. GEOG, WISCONSIN, MADISON, 36-38, instr, exten. div, 38-41, lectr, 46-51, asst. prof, 51-58, ASSOC. PROF, 58-, CHMN. DEPT, EXTEN. DIV, 46-, CHMN. DEPT, CENTER SYST, 64- Asst. geogr, Cent. Intel. Agency, 42; dir, Nat. Sci. Found. Res. Participation Prog. Col. Teachers, Wisconsin, 62-64. Consult, Aaron, Aaron, Schimberg & Hess Law Firm, Ill, 57-59. U.S.A.A.F, 42-46, Maj. AAAS; Asn. Am. Geog. Physical and cultural geography of Wisconsin; resources management; audio-tutorial systems of teaching geography. Publ: Original vegetation cover of Wisconsin; Geography of Wisconsin—a content outline, Col. Printing & Typing Co, 65. Address: 2018 Jefferson St, Madison, Wis. 53711.

FINN, SISTER ISABELLE MARIE, b. Elmo, Kans, Jan. 13, 05. ECONOMICS. BUSINESS ADMINISTRATION. A.B, Marymount Col, 39; M.B.A, De Paul, 44. ASSOC; PROF. ECON. & BUS. ADMIN, MARYMOUNT COL, 39-, CHMN. DEPT, 60-, dir. instnl. anal, 63-67. Chmn, N.Cent. Workshop, Chicago, 54; secy, Nat. Cath. Youth Serv. Agencies, 59-61; summer guest prof, bus. ed. workshop, Kans, State Teachers Col, 61. Econ. Asn; Am. Acct. Asn. Accounting. Publ: Depreciation trends, Nat. Bus. Ed. Quart; Responsibility and privilege, Kans. Bus. Teachers Quart. Address: Dept. of Economics & Business Administration, Marymount College, Salina, Kans. 67401.

FINN, DR. MICHAEL H(ERBERT) P(AUL), b. Philadelphia, Pa, Jan. 16, 24; m. 50; c. 4. CLINICAL PSYCHOLOGY. B.S, Maryland, 48; M.A, N.Y. Univ, 49, Ph.D, 53. Intern psychol, Bellevue Psychiat. Hosp, 49-50; staff psychologist, Springfield State Hosp, 50-51, chief psychol. servs, 51-61. Private practice, 61- Consult, Wesley Theol. Sem, 53-; West. Md. Col, 53-64; Nat. Bd. Missions, Methodist Church, 53-; U.S. Pub. Health Serv. Hosp, Baltimore, 54-55; Springfield State Hosp, 61-68; Baltimore Psychiat. Day Hosp, 62-; Baltimore Conf, Methodist Church, 67-; Montebello State Hosp, 68- U.S.A, 43-46. Psychol. Asn; Soc. Proj. Tech. Goal directed therapy; psychologist in the legal world. Publ: Training for clinical Psychology; Myokinetic psychodiagnosis. Address: P.O. Box 8010, Ruxton, Md. 21204.

FINN, DR. ROBERT HOWARD, b. Jonesboro, Ark, Apr. 10, 27; m. 51; c. 2. INDUSTRIAL PSYCHOLOGY. B.S, Purdue, 51, M.S, 52, Ph.D.(psychol), 54. Labor rels. adv, Union Carbide Nuclear Co, Tenn, 54-56; supvr. personnel develop, Plantation Pipe Line Co, Ga, 56-62; ASSOC. PROF. MGT, COL. BUS. ADMIN, GEORGIA, 62- Summer fel, vis. profs. case method prog, Harvard Bus. Sch, 64. U.S.A.A.F, 45-47. Psychol. Asn. Personnel selection and development; work motivation; performance appraisal; criterion development; salary administration. Publ: Co-auth, Patterns of job requirements, J. Appl. Psychol, 57; auth, Is your appraisal program really necessary?, Personnel, 60; Psychological testing—business use and misuse, Admin. Mgt. Soc. Bull, 3/66. Address: Dept. of Management, University of Georgia College of Business Administration, Athens, Ga. 30601.

FINNEGAN, SISTER MARGARET M, b. Brooklyn, N.Y. PSYCHOLOGY. A.B, Trinity Col.(D.C), 54; M.A, Catholic Univ, 60, Ph.D.(exp. psychol), 66. Instr. PSYCHOL, TRINITY COL.(D.C), 59-61, asst. prof, 61-66, ASSOC. PROF, 66- AAAS; Psychol. Asn. Olfaction processes; learning in children. Address: Dept. of Psychology, Trinity College, Washington, D.C. 20017.

FINNER, DR. WINN F(REDERICK), b. Cassville, Wis, May 12, 13; m. 38; c. 3. AGRICULTURAL ECONOMICS. M.S.A, Wisconsin, 35, Ph.D.(agr econ), 49. Asst. dir, mkt. econ. div, U.S. DEPT. AGR, 37-63, head staff economist group, 63-67, ASSOC. ADMINSTR, CONSUMER & MKT. SERV, 67- Mkt. adv, from Food & Agr. Orgn. to Govt. Jamaica, 61-62. Distinguished Serv. Award, U.S. Dept. Agr, 67. U.S.N.R, 43-46, Res, 46-, Lt. Comdr. AAAS; Agr. Econ. Asn; Caribbean Food Crops Soc. Marketing efficiency; nature of competition in agricultural marketing; public marketing and food programs; foreign agricultural development. Address: 4107 Maple Ave, Fairfax, Va. 22030.

FINNEY, PROF. BEN CURLER, b. Casper, Wyo, July 20, 19; m. 47. CLINICAL PSYCHOLOGY. A.B, Fresno State Col, 40; M.A, California, 42, Ph.D, 51. Chief psychother, clin. psychol. serv, Palo Alto Vet. Admin. Hosp, 49-61; assoc. prof. PSYCHOL, SAN JOSE STATE COL, 61-67, PROF, 67- Asst. prof, San Francisco State Col, 52-54; consult. asst. prof, Stanford, 56-61; res. coordinator, San Mateo County Schs, 60-61. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F, 42-45. Fel. Psychol. Asn. Group psychotherapy. Publ: Projection and behavior, a Rorschach study of assaultive mental patients, J. Proj. Tech; Scale to measure interpersonal relationships in group psychotherapy, Group Psychother; Diagnostic discrimination of the basic Rorschach score, J. Consult. Psychol. Address: 866 Seale Ave, Palo Alto, Calif. 94303.

FINNEY, DR. BEN R, b. San Diego, Calif, Oct. 1, 33; m. 64. ANTHROPOLOGY. B.A, California, Berkeley, 55; M.A, Hawaii, 59; Ph.D.(anthrop), Harvard, 64. Asst. prof. ANTHROP, California, Santa Barbara, 64-66; anthropologist, B.P. Bishop Mus, Honolulu, 66-67; SR. RES. FEL. PAC. STUDIES, AUSTRALIAN NAT. UNIV, 68- Nat. Sci. Found. res. grant, 66-67; Fulbright res. grant, Australia, 67. U.S.N.R, 57, Lt.(jg). Fel. Anthrop. Asn. Economic and social change; Polynesian culture history and ethnography. Publ: Polynesian peasants and proletarians, Polynesian Soc, N.Z, 65; co-auth, Surfing: sport of Hawaiian kings, Tuttle, 66; auth, Research distribution and social structure in Tahiti, Ethnology, 1/66. Address: School of Pacific Studies, Australian National University, P.O. Box 4, Canberra, Australia.

FINNEY, DR. JOSEPH C(LAUDE), b. Urbana, Ill, Mar. 18, 27; m. 55; c. 4. PSYCHOLOGY. B.A, Vanderbilt, 46; Notre Dame, 47; M.D, Harvard, 49; California, 50-53; Ph.D.(psychol), Stanford, 59. Intern, univ. hosp, Hopkins, 49-50; resident physician psychiat, Vet. Admin. Hosp, Palo Alto, Calif, 53-56; asst. prof. psychol. & psychiat, Illinois, 56-60; dir. res, ment. health div, State Health Dept, Hawaii, 60-62; chief ment. health consult, State Correctional Syst, Hawaii, 61-63; assoc. prof. psychiat, KENTUCKY, 63-67, VIS. PROF. ED, 67- Dir. & chief psychiatrist, Champaign County Ment. Health Clin, Ill, 56-60; mem. affiliate faculty & assoc. prof, Hawaii, 60-63; Nat. Inst. Ment. Health res. grant, 66-68; Voc. Rehab. Admin. res. grant,

67-70 U.S.P.H.S, 51-53, res, 53-61; U.S.A.R, 61-, Lt. Col. Psychol. Asn; Psychiat. Asn; Am. Med. Asn; Anthrop. Asn; Soc. Res. Child Develop; Group Psychother. Asn; Ling. Soc; Polynesian Soc; Sociol. Asn; Orthopsychiat. Asn; Asn. Res. Nervous & Ment. Disease; Royal Medico-Psycho. Asn. Psycholinguistics; objective measurement of personality and character; parental influences on personality and character development; mathematical models of personal interaction and defense mechanisms; process of psychotherapy; intercultural psychological differences. Publ: Ed. & co-auth, Culture change, mental health and poverty, Univ. Kentucky, 68; auth, Methodological problems in the programmed composition of psychological test reports, Behav. Sci, 67. Address: University of Kentucky College of Education, Lexington, Ky. 40506.

FINNEY, PROF. KATHERINE, b. Hamilton, Ohio. ECONOMICS. A.B, Arkansas, 35; A.M, Columbia, 36, Ph.D, 44. Instr, Smith Col, 37-39; Flora Stone Mather Col, Western Reserve, 39-43, dir. admission, 41-43; mem. dept. financial & bus. res, Chase Nat. Bank, 43-44; asst. prof. ECON, CONN. COL, 44-48, assoc. prof, 48-58, PROF, 58-, DIR. GRAD. STUDIES, 61-, dean sophomores, 49-52. Econ. Asn; Finance Asn. Banking and finance. Publ: History of mutual savings banks of Northampton, Massachusetts; Interbank deposits. Address: Dept. of Economics, Connecticut College, New London, Conn. 06320.

FINNEY, DR. MILDRED IRENE, b. Mountain Lake, Minn, Mar. 4, 05; m. 46. GEOGRAPHY. A.B, Illinois, 39, A.M, 40; Ph.D.(geog), Northwestern, 59. Teacher, pub. schs, Ill, 39-42, 45-46; food supvr, ILLINOIS, CHICAGO, 42-43, instr. geog, 46-60, asst. prof, 60-63, ASSOC. PROF. GEOG. & HIST. & AGR. GEOG, 63- W.A.C, 43-45, Sgt. Asn. Am. Geog; Nat. Coun. Geog. Ed. Agriculture of Middle West, especially Illinois; cash corn areas; sugar beet production on glacial lake plains. Publ: Corn refining industries: a study in industrial location. Address: 3806 Western Ave, Park Forest, Ill. 60466.

FINNIE, DR. BRUCE, b. Memphis, Tenn, Apr. 9, 34; m. 54; c. 3. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Harvard, 56, Ph.D.(sociol), 66. Asst. res. sociologist, HARVARD, 61-64, RES. SOCIOLOGIST, 64-, LECTR. SOCIOL, DEPT. SOC. RELS, 66- Consult, Arthur D. Little, Inc, 65- Sociol. Asn. Methodology; social stratification. Address: 75 Mt. Auburn St, Cambridge, Mass. 02138.

FINOCCHIO, DR. DOM V(INCENT), Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

FINSTON, DR. HOWARD V(IVIAN), b. Tulsa, Okla, Dec. 13, 23; m; c. 1. INDUSTRIAL & BUSINESS ADMINISTRATION. A.B. & A.M, Stanford, 48, Found. Econ. Ed. fel & Ph.D, 53; summers, Harvard Bus. Sch, 65, Case, 66. Asst. prof. econ, Humboldt Col, 51-52; mkt, Loyola (Calif), 52-53; indust. admin, NEW MEXICO, 53-60, assoc. prof, 60-62, PROF. INDUST. ADMIN. & DEAN COL. BUS. ADMIN, 62-, acting dean col. bus. admin, 61-62. Dir. Southwest Mgt. Develop. Prog. Mgt. consult, 53-; consult, Kirschner Assocs, 65-; Sandia Corp, 67- U.S.A.A.F, 43-46. Acad. Mgt. Executive development; evaluation of sensitivity training within a research and development laboratory; development of an integrative training program for higher-level administrators. Publ: Co-auth, Industrial relations, Appleton, 64; Disarmament and economics redevelopment in New Mexico, 65 & Small business development centers—an appraisal, 66, Kirschner Assocs. Address: 8705 La Sala Grande N.E, Albuquerque, N.Mex. 87111.

FIORE, PROF. ALPHONSE THOMAS, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

FIRCH, DR. ROBERT S, b. Atkinson, Ill, Nov. 4, 33; m. 58. AGRICULTURAL ECONOMICS. B.S, California, 58, M.S, Purdue, 60; Ph.D.(econ), Chicago, 63. Asst. prof. AGR. ECON, ARIZONA, 62-65, ASSOC. PROF, 65- Vis. assoc. prof, Oregon State, 66. Econ. Asn; Agr. Econ. Asn. Development of a linear programming technique of determining optimum warehouse location; an evaluation of built-in stabilizers in the economy; economics of cotton marketing. Publ: Stability of farm income in a stabilizing economy, 5/64 & A reappraisal of agricultural exports and economic development, 12/64, J. Farm Econ; Interregional effects of CCC pricing of cotton, Proc. West. Farm Econ. Asn, 66. Address: Dept. of Agricultural Economics, University of Arizona, Tucson, Ariz. 85721.

FIREOVED, PROF. ELGIE LLOYD, b. Portis, Kans, Dec. 23, 97; m. 23. ECONOMICS, ACCOUNTING. B.A, Ft. Hays Kans.State Col, 22; M.A, Nebraska, Lincoln, 27. Teacher, high sch, Kans, 22-26; prof. econ, Westmar Col, 27-56, bus. mgr, 52-56; PROF. ECON, SOUTH. STATE COL, 56- Am. Econ. Asn; Am. Acct. Asn. The monetary field. Address: 525 Engler St, Magnolia, Ark. 71753.

FIRESTONE, DR. FREDERIC N(ORBERT), b. New York, N.Y, Aug. 5, 29. ECONOMICS. B.A, Olivet Col, 48; M.S, Wisconsin, 52, Ph.D.(econ), 58; London Sch. Econ, 55-56. Asst. ECON, Wisconsin, 49-52, 56-58; instr, Maryland Overseas Prog, 55-56; Wellesley Col, 58-60, asst. prof, 60-63; ASSOC. PROF, Lehigh, 63-66; SCRIPPS COL. & CLAREMONT GRAD. SCH, 66- U.S.A, 52-54, Sgt. Econ. Asn; Soc. Gen. Syst. Res; fel. Royal Econ. Soc. Economic theory; systems analysis in the social sciences. Publ: Marginal aspects of management practices. Address: Dept. of Economics, Scripps College, Claremont, Calif. 91711.

FIRESTONE, PROF. JOHN M(ITCHELL), b. New York, N.Y, Oct. 8, 08; m. 36; c. 2. ECONOMICS, STATISTICS. B.S, City Col. New York, 30, M.B.A, 33; Ph.D, Columbia, 55. From asst. prof. to PROF. ECON, CITY COL. NEW YORK, 29- Consult, U.S. Bur. Labor Statist, 55- Mem. econ. policy cmt, U.S. Chamber Commerce. Fel. AAAS; fel. Statist. Asn; Asn. Bus. Econ; Econ. Asn. Prices; production measurement; time series analysis. Publ: Cyclical behavior of federal receipts and expenditures, 1879-1958. Address: 5454 Sylvan Ave, New York, N.Y. 10471.

FIRESTONE, DR. MELVIN M, b. Omaha, Nebr, Oct. 10, 31; m. 63. SOCIAL ANTHROPOLOGY. B.A, New Mexico, 54; M.A, Washington (Seattle), 59, Ph.D.(anthrop), 66; fel, Memorial Univ, 63-65. Instr. ANTHROP, Utah, 62-63; ASST. PROF, Wayne State, 65-68; ARIZONA STATE, 68- Fel. Anthrop. Asn. Social structure of fishing communities; magical curing; folklore; blood group studies. Publ: Sephardic folk-curing in Seattle, J. Am. Folklore, 62; co-auth, Bloodtype frequencies among the Indians of the Quinault Reservation, Proc. Second Int. Cong. Human Genetics, 63; auth, Brothers and rivals: patrilocality in Savage Cove, Newf. Soc. & Econ. Studies, 67. Address: Dept. of Anthropology, Arizona State University, Tempe, Ariz. 85281.

FIRESTONE, PROF. O. J(ACK), b. U.S, Jan. 17, 13; m. 54; c. 4. ECONOMICS, POLITICAL SCIENCE. M.A, McGill, 42; London Sch. Econ; Univ. Vienna. Asst, adv. cmt, reconstruct. & adv. cmt. econ. policy, Can. Privy Coun, 42-44; asst. to dir-gen. econ. res, Can. Dept. Reconstruct, 44-45; dir. econ. res, Can. Dept. Reconstruct. & Supply, 46-48; Can. Dept. Trade & Commerce, 48-51, econ. adv, 51-60; PROF. ECON, OTTAWA, 60-, VICE-DEAN, FACULTY SOC. SCI, 63- Mem. Royal Cmn. Health Serv, 61-65. Econ. adv, Cent. Mortgage & Housing Corp, Can, 46-54; lectr, Banff Bus. Sch. Adv. Mgt, 54-67. Econ. Asn; Acad. Polit. Sci; Can. Polit. Sci. Asn; Can. Hist. Asn. Theory of economic growth; national income analysis; economic forecasting; economics of education. Publ: Canada's economic development, 1867-1953; Problems of economic growth, Univ. Ottawa, 65; Economic implications of advertising, Methuen, 67. Address: Faculty of Social Sciences, University of Ottawa, Ottawa, Ont, Can.

FIREY, PROF. WALTER, JR, b. Roundup, Mont, Aug. 13, 16; m. 52; c. 2. SOCIOLOGY. A.B, Washington (Seattle), 38, A.M, 40; A.M, Harvard, 43, Ph.D, 45. Asst. prof. SOCIOL, Mich. State Col, 45-46; TEXAS, 46-47, assoc. prof, 47-59, PROF, 59- Fel, Center Adv. Study Behav. Sci, 59-60. Fel. AAAS; fel. Sociol. Asn; Rural Sociol. Soc; Economet. Soc. Land use; conservation; social theory. Publ: Land use in central Boston; Man, mind and land; Law and economy in planning, Univ. Texas, 65. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

FIRKINS, DR. CURTIS JAMES, b. De Kalb, Ill, Oct. 20, 06; m. 32; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Illinois, 29, M.A, 30; Ed.D, North Texas State, 61. DIR. TESTING & GUID, TEXAS CHRISTIAN, 46-, ASSOC. PROF, 68-, asst. prof. psychol, 48-62, dean men, 50-58. Psychol. Asn; Personnel & Guid. Asn. Change of interest in college students; counseling. Address: Dept. of Psychology, Texas Christian University, Box 30813, Ft. Worth, Tex. 76129.

FIRMAN, PROF. DAVID, Geog, see 11th ed, Phys. & Biol. Vols.

FIROOZI, DR. FERYDOON, b. Sanandaj, Iran, May 1, 33. ECONOMICS. B.A, Tehran, 54, scholar, 54-57; scholar, Princeton, 58-59; fel, Dropsie Col, 59-63, M.A, 62, Ph.D.(Mid. East), 66; M.A, Temple, 68. Mem. staff, Anglo-Persian Oil Co, 50-51; teacher, high sch, Ministry Ed, Iran, 51-54; asst. dean, Inst. For. Lang, Iran, 57-58; teacher Persian, Princeton, 58-60; res. asst. soc. sci, Pennsylvania, 61-65; scholar, Temple, 65-66; ASST. PROF. ECON, NORTHEAST. ILL. STATE COL, 66- Registr. for. & grad. students, col. arts & letters, Tehran, 57-58; area studies coordinator, Peace Corps proj, summer, 66. Middle East economics; economic development; international economics; economic thought. Publ: U.S. Economic aid to Iran, 66 & Economic conditions of Iran, 66, Peace Corps. Address: Dept. of Economics, Northeastern Illinois State College, Chicago, Ill. 60625.

FIRST, PROF. RAMONA K, b. St. Paul, Minn, Aug. 24, 22; m. 44; c. 2. ECONOMICS, STATISTICS. B.A, Stanford, 43; Ph.M, Wisconsin, 45, Ph.D, 49. Lectr. statist, Sacramento State Col, 49-50; asst. prof. econ. & bus. admin, Nevada, 55-56; ECON, SAN FRANCISCO STATE COL, 56-60, assoc. prof, 60-65, PROF, 65- Econ. Asn; Statist. Asn; Economet. Soc. Applied economic statistics; public finance; econometrics; index numbers. Publ: Cost of living index, its uses in wage adjustments. Publ: Follow-up study of project 60, the older unemployed in San Francisco, Off. Manpower Policy, Eval. & Res, U.S. Dept. Labor, 1/68. Address: Dept. of Economics, San Francisco State College, San Francisco, Calif. 94132.

FISCH, DR. MARTIN L, b. Brooklyn, N.Y, Oct. 12, 24; m. 46; c. 2. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 47, Ph.D, 62. Res. psychologist, Letchworth Village, N.Y, 50-51; CHIEF, PSYCHOL. SERVS. & ASST. DIR, L.I. COL. HOSP, 51- Lectr, sch. med, State Univ. N.Y, 59-; summer, Kentucky, 53. Res. psychologist, Sing Sing Prison, 51-52; clin. psychologist, Youth House, New York, 51-53. Field selection officer, U.S. Peace Corps, 65- U.S.A, Med. Dept, 43-46. Psychol. Asn; Asn. Ment. Deficiency. Behavioral aspects of neuromotor impairment; psychodiagnostic evaluation; development of psychophysical tools and techniques. Publ: Co-auth, Intellectual development of the cerebral palsied child as a factor in therapeutic progress, Am. J. Ment. Deficiency,& chap. In: Studies in topectomy. Address: 1430 Glenwood Rd, Brooklyn, N.Y. 11230.

FISCHBAUM, DR. MARVIN (NELSON), b. New York, N.Y, Aug. 17, 28. ECONOMICS, ECONOMIC HISTORY. B.A, Queens Col.(N.Y), 60; Econ. Workshop fel, Columbia, 61-62, Ph.D.(econ), 65. ASST. PROF. ECON, INDIANA STATE, 65- Mellon res. fel, Univ. Pittsburgh, 66-67. Econ. Asn; Econ. Hist. Asn. Influence of North on the economic development of the South in the post Civil War period; effects on markets of assymetrical distributions of knowledge. Address: Dept. of Economics, Indiana State University, Terre Haute, Ind. 47809.

FISCHER, DR. ANN K, b. Kansas City, Kans, May 22, 19; m. 49; c. 2. ANTHROPOLOGY. A.B, Kansas, 41; Pac. Sci. Bd. fel, Radcliffe Col, 49-50, univ. fel, 56-57, Ph.D.(anthrop), 57. Teacher Eng, U.S. Trust Territory, 51-53; asst. anthrop, Harvard, 55-57; res. assoc, Children's Med. Center, Boston, Mass, 57-58; training asst. pub. health, sch. med, TULANE, 59-60, asst. prof. anthrop, sch. soc. work, 60-63, ASSOC. PROF, ANTHROP. DEPT. & SCH. MED, 63- Fel. Anthrop. Asn; Sociol. Asn. Culture and personality; medical anthropology; social structure. Publ: Co-auth, New Englanders of Orchard Town, Wiley, 63; Totemism and allergy, Int. J. Soc. Psychiat; Cultural epidemiology; theoretical investigation of Kuru, J. Health & Human Behav. Address: 7301 Zimple St, New Orleans, La. 70118.

FISCHER, PROF. CARL H(AHN), b. Newark, N.J, Aug. 22, 03; m. 25; c. 2. ACTUARIAL SCIENCE. B.S, Washington (St. Louis), 23; M.S, Iowa, 30, Ph.D.(math), 32. Spec. engr, Am. Steel Foundries, Ill, 23-26; instr. math, Beloit Col, 26-29; asst, Iowa, 29-32; instr, Minnesota, 32-33; spec. res. asst, Northwest. Nat. Life Ins. Co, 33-34; instr. math, Wayne, 34-37, asst. prof, 37-41; MICHIGAN, 41-45, assoc. prof, 45-50, PROF. ACTUARIAL MATH. & INS, 50- Vis. prof, California, Berkeley, 51; Hawaii, 55; Hebrew Univ, Israel, 65, 67; Netherlands Sch. Econ, 66. Consult, 39-; soc. security consult, Repub. Philippines, 56, 62. Mem, Adv. Coun. Soc. Security Financing, 57-58; chmn, study cmt. mil. retired pay, U.S. Senate, 60-61. Fel. Soc. Actuaries; Statist. Asn; Math. Asn; Brit. Inst. Actuaries; Acad. Actuaries. Mathematics of life insurance and of investment; pension plans; health insurance; social security. Publ: Co-auth, Mathematics of investment, Rinehart, 51 & Mathematics of life insurance, Macmillan, 65. Address: School of Business Administration, University of Michigan, Ann Arbor, Mich. 48104.

FISCHER, DR. DONALD E, b. St. Louis, Mo, Nov. 8, 35; m. 66. FINANCE. B.S, Washington (St. Louis), 57, Am. Bankers Asn. Stonier fel, 63-64, D.B.A. (finance), 64; M.B.A, Detroit, 60. Sr. analyst, Chrysler Corp, Mich, 58-60; lectr. acct, Washington (St. Louis), 60-63; asst. prof. FINANCE, Arizona State, 64-66; ASSOC. PROF, CONNECTICUT, 66- Summers, Pac. Coast Banking Sch. fel, 65; Savings & Loan Sch. Exec. Develop, lectr, 67-68. Finance C, U.S.A.R, 57-, Capt. Econ. Asn; Finance Asn; Financial Anal. Fedn. Investments; corporate capital structures; capital budgeting; resource allocation within the firm. Publ: Co-auth, Readings in contemporary financial management, Scott (in press); Preferred stock financing by electrical utilities, Pub. Utilities Fortnightly, 9/66; Non-convertible preferred stock as a financing instrument, 1950-65, J. Finance, 9/68. Address: University of Connecticut School of Business Administration, Storrs, Conn. 06268.

FISCHER, PROF. ERIC, b. Vienna, Austria, Jan. 13, 98; nat; m. 30; c. 2. GEOGRAPHY. Ph.D.(hist), Vienna, 21. Prof. geog. high sch, Austria, 24-38; lectr, Cambridge Center Adult Ed, 42-43; instr. geog, Bard Col, 43-44; geogr, Off. Strategic Servs, Wash, D.C, 44-45; U.S. Dept. State, 45-47; sr. res. geogr, geog. inst, Virginia, 47-50; prof. geog, N.Y. Univ, 50-51; sr. researcher, U.S. Army Map Serv, 51-65; PROF. GEOG, COPPIN STATE COL, 65- Lectr, univ. exten. courses, Vienna, 21-34; prof. lectr, George Washington, 52- Asn. Am. Geog; fel. Geog. Soc; Hist. Asn. Political geography; geomorphology; history of cultural interrelations. Publ: The passing of the European age, Harvard, 46, 2nd ed, Russell, 67; co-auth, Principles of political geography, Appleton, 56; sr. co-auth, A question of place, the development of geographic thought, Beatty, 67. Address: 301 Philadelphia Ave, Takoma Park, Md. 20012.

FISCHER, DR. GEORGE, b. Berlin, Germany, May 5, 23; U.S. citizen; m. 58; c. 2. SOCIOLOGY. B.A, Wisconsin, 47; Ph.D.(hist), Harvard, 52. From asst. prof. to assoc. prof, Brandeis, 53-61; prof, Cornell, 61-65; ASSOC. PROF. SOCIOL, COLUMBIA, 65- Fel, Center Adv. Study in Behav. Sci, 58-59; Guggenheim fel, 64-65. U.S.A, 42-46, Capt. Sociol. Asn. Political sociology; sociology of knowledge; comparative sociology, especially the United States and the Soviet Union. Publ: Russian liberalism; Science and ideology in Soviet society; The Soviet system and modern society. Address: Bureau of Applied Social Research, Columbia University, 605 W. 115th St, New York, N.Y. 10025.

FISCHER, PROF. GERALD C(HARLES), b. Buffalo, N.Y, Apr. 11, 28; m. 53. FINANCE. B.S, Buffalo, 52, M.S, Columbia, 53, Seaboard & West. Airlines fel, 53-54, Ford Found. fel, 58-60, Ph.D, 60. Trainee, Marine Trust Co, N.Y, 53-55; security analyst, Marine Midland Corp, 55-56; instr. econ, Jamestown Col, 56-57; asst. prof. banking & finance, Canisius Col, 57-58, 60-62; asst. prof. finance, Indiana, 62-64, assoc. prof, 64-67; PROF. BUS. ADMIN, TEMPLE, 67- Ford Found. faculty res. fel, 64-65. Econ. Consult, Marshall & Ilsley Bank Stock Corp, 62-63; Am. Bankers Asn, 64-65; Gen. Bancshares Corp, 65-66; Marine Midland Corp, 66-67; Robert Morris Assocs, 67- U.S.A, 45-48, Sgt. Econ. Asn; Finance Asn. Financial institutions; banking concentration. Publ: Bank holding companies; American banking structure, Columbia, 68. Address: School of Business, Temple University, Philadelphia, Pa. 19122.

FISCHER, PROF. GLORIA J(ANE), b. Indianapolis, Ind, Apr. 15, 27. PSYCHOLOGY. B.S, Purdue, 49, M.S, 50, fel, 53-54, Ph.D, 55. Intern clin. psychol, E. Moline State Hosp, Ill, 51; staff psychologist, Logansport State Hosp, Ind, 52; asst. ed. psychol, Purdue, 52-53; Yerkes Labs. Primate Biol, 54-55; res. clinician, Vet. Admin. Hosp, Marion, Ind, 55-56, clin. res. psychologist, 56, dir. psychiat. eval. proj, 56-59; asst. prof. PSYCHOL, Oklahoma, 59-63; ASSOC. PROF, South Florida, 63-65; WASHINGTON STATE, 65- Consult, Okla. Jr. Acad. Sci, 60-; Vet. Admin. Hosp, Oklahoma City, 61- AAAS; Animal Behav. Soc; Psychol. Asn; Psychonomic Soc. Learning and comparative psychology; learning theory. Publ: Learning set formation in young gorillas, 62 & Auditory stimuli in imprinting, 66, J. Comp. Physiol. Psychol; Relation between stimulus presentation time, serial learning and the serial position effect, J. Exp. Psychol, 66. Address: Dept. of Psychology, Washington State University, Pullman, Wash. 99163.

FISCHER, PROF. HAROLD, b. Columbus, Ohio, Feb. 11, 02. ECONOMICS. B.S, Ohio State, 22, A.M, 26; Chicago, 24. Instr, Ohio State, 23-28; from instr. to assoc. prof, FRANKLIN & MARSHALL COL, 28-45, dir. personnel bur, 36-49, eng, sci. & mgt. war training, 42-45, evening div, 44-46, prof. BUS. ADMIN, 45-67, EMER. PROF, 67- Mgt. Asn; fel. Soc. Adv. Mgt; Inst. Mgt.(pres, 55-). Personnel and industrial management. Address: Dept. of Business Administration, Franklin & Marshall College, Lancaster, Pa. 17603.

FISCHER, DR. HARVEY J(AY), b. New York, N.Y, Feb. 8, 26; m. 50; c. 2. PSYCHOLOGY. B.A, Hunter Col, 50; M.A, N.Y. Univ, 52, Ph.D.(psychol), 53. Chief psychologist, Creedmoor Inst, 53; chief psychol. servs, Ment. Health Clin, Pa, 53-59, exec. secy, dept. psychoanal, 54-59; EXEC. DIR, SOUTH NASSAU CONSULT. SERV, 60- Private practice, 59-; consult, Community Guid. Serv, 64- U.S.A, 44-46. AAAS; Psychol. Asn. Psychotherapy; psycho-diagnosis; education. Publ: Dianetic therapy, an experimental evaluation; Borderline case of classical melancholia; Freud as scientist. Address: One Sunset Ave, Lynbrook, N.Y. 11563.

FISCHER, PROF. JOHN L(OUIS), b. Okla, Oct. 17, 23; m. 46; c. 3. AGRICULTURAL ECONOMICS. B.S, Okla. State, 47, fel, 47-48, M.S, 48; Rockefeller Found. fel, Wisconsin, 51-52, Ph.D.(econ), 55. From asst. prof. to assoc. prof. agr. econ, Tennessee, 48-55; exten. economist, Mich. State, 55; assoc. prof. agr. econ, chmn. dept. & economist, Nevada, 55-58; PROF. ECON, AGR. ECON, SOCIOL. & RURAL SOCIOL. & HEAD DEPTS, MONTANA STATE, 58- Trustee, Am. Inst. Coop, 64- Mem. domestic affairs group, White House Cmt, 64-66; Mountain States manpower adv. cmt, U.S. Dept. Labor & Dept. Health, Ed. & Welfare, 65-66; agr. sci. adv. cmt, U.S. Dept. Agr, 65-66; food & agr. officer, U.S Agency Int. Develop. Mission to Ethiopia, 66- U.S. del. African biannual meeting, Food & Agr. Orgn. UN, 66. U.S.A, 42-45. Agr. Econ. Asn; Int. Asn. Agr. Econ; Agr. Hist. Soc; Rural Sociol. Soc. Agricultural marketing. Address: Dept. of Economics, Montana State University, Bozeman, Mont. 59715.

FISCHER, PROF. J(OHN) L(YLE), b. Kewanee, Ill, July 9, 23; m. 49; c. 2. ANTHROPOLOGY, LINGUISTICS. B.A, Harvard, 46, M.A, 49, Ph.D.(anthrop), 55; New Sch. Soc. Res, 46-47. Dist. anthropologist, Truk Dist, U.S. Trust Territory of Pac. Islands, 49-50, Ponape Dist, 50-51, internal affairs officer, 51-53; res. asst, lab. human develop, grad. sch. ed, Harvard, 54-55, instr. & res. assoc. ANTHROP, 55-58; asst. prof, TULANE, 58-60, assoc. prof, 60-63, PROF, 63-, CHMN. DEPT, 67- Nat. Sci. Found. res. grant, Japan, 61-62; fel, center adv. study behav. sci, Stanford & spec. fel, Nat. Inst. Ment. Health, 65-66; vis. assoc. prof, summer sch, Stanford, 63, vis. prof, summer sch, Univ. Hawaii, 66. Mem. behav. sci. fel. rev. cmt, Nat. Insts. Health, 63-67; co-chmn. anthrop. panel, Behav. & Soc. Sci. Surv. Cmt, 67- U.S.N.R, 42-43; U.S.M.C.R. 43-46, 1st Lt. AAAS; Anthrop. Asn; Ethnol. Soc; Ling. Soc. Social and expressive culture; psychological anthropology; linguistic change; mythology; Pacific Islands and Japan. Publ: Co-auth, The Eastern Carolines, Taplinger, 57, 66; The New Englanders of Orchard Town, U.S.A, Wiley, 66; The sociopsychological analysis of folktales, Current Anthrop, 63. Address: Dept. of Anthropology, Tulane University, New Orleans, La. 70118.

FISCHER, PROF. LOYD K(ARL), b. Alma, Nebr, Aug. 23, 20; m. 47; c. 4. AGRICULTURAL ECONOMICS. B.S, Nebraska, 51, M.S, 52; Ph.D, Iowa State, 55. Instr. econ, Iowa State, 55; asst. agr. economist, NEBRASKA, 55-61, assoc. prof. AGR. ECON, 61-66, PROF, 66-, mission in Colombia, 67-69. U.S.N, 42-47, Res, 47-, Lt. Comdr. Am. Agr. Econ. Asn; Colombian Agr. Econ. Asn. Land economics; agricultural finance; development, ulitization, allocation and conservation of resources; special problems of water use, rights and control; economic development, technical assistance and land reform. Address: Dept. of Agricultural Economics, College of Agriculture, University of Nebraska, Lincoln, Nebr. 68503.

FISCHER, DR. PAUL HENRY, b. Iowa City, Iowa, Sept. 19, 23; m. 55; c. 1. PSYCHOLOGY. A.B, California, Los Angeles, 48; A.M, Southern California, 50, Ph.D.(sociol), 52. INSTR. PHYSIOL. PSYCHOL, LOS ANGELES CITY COL, 52- Instr. & counsr, Los Angeles Trade Tech. Jr. Col, 54-55. Private practice. U.S.A.A.F, 43-45; U.S.A, 45-46. Psychol. Asn. Physiological psychology; neurophysiology and total brain function; psychoanalytic ego psychology. Publ: An analysis of the primary group, Sociometry. Address: 1966 Lucile Ave, Los Angeles, Calif. 90039.

FISCHER, DR. ROBERT P(AUL), b. Columbus, Ohio, Aug. 28, 15; m. 41; c. 3. PSYCHOLOGY. A.B, Ohio State, 38, M.A, 40, Ph.D.(psychol), 42; Ohio, 38-39. Asst. prof. psychol. & dir. student personnel, Clark, 42-43; assoc. psychol. & exam. psychologist, Illinois, 43-44, asst. prof. psychol, 44-45, res. psychologist, 45-46; prof. psychol, Birmingham-Southern Col, 46; assoc. prof, Florida, 46-47; assoc. prof. psychol. & dir. psychol. clin, Marietta Col, 47-52; consult. psychologist, 52-62; DIR. PERSONNEL RES, FENTON ART GLASS CO, 62- Lectr, Marietta Col, 52; Nat. Mgt. Asn, 54- Fel. Psychol. Asn; Statist. Asn. Interpersonal communication theory; executive development; motivational and psychotherapy research. Address: R.R. 1, Box 316, Williamstown, W.Va. 26187.

FISCHER, PROF. VICTOR, b. May 5, 24; U.S. citizen; m; c. 3. POLITICAL SCIENCE, ECONOMIC DEVELOPMENT. B.A, Wisconsin, 48; M.C.P, Mass. Inst. Tech, 50; Harvard, 61-62. Town planner, Peterborough, N.H, 49; townsite planner, U.S. Dept. Interior, Alaska, 50-51; dir. city planning, Anchorage, 52-55, consult. planning & urban renewal, 55-57; dir. planning & urban renewal & asst. exec. dir, Alaska State Housing Authority, 57-61; asst. adminstr. metrop. develop, U.S. Housing & Home Finance Agency & dir. off. metrop. develop, U.S. Dept. Housing & Urban Develop, Wash, D.C, 62-66; PROF. POLIT. SCI. & DIR. INST. SOC, ECON. & GOVT. RES, ALASKA, 66- Exec. dir, League Alaskan Cities, 53-56; mem, House Rep, Alaska, 57-58. Consult, Alaska State Planning Cmn, 59; spec. consult. planning & econ. develop, Off. Gov, 60. Del, Alaska Constitutional Convention. Inst. Planners; Soc. Pub. Admin; Soc. Planning Off. Address: Dept. of Political Science, University of Alaska, College, Alaska 99701.

FISCHER, PROF. WALTER O(TTO), b. Garfield, N.J, Oct, 21, 18; m. 43; c. 2. INDUSTRIAL & COUNSELING PSYCHOLOGY. B.S, Trenton State Col, 40; M.P.S, Colorado, 50; fel, N.Y. Univ, 55; Danforth fel, Harvard, 56; Ph.D.(ed. & psychol), Denver, 57. Teacher, high sch, Md, 40-41; training officer rehab, Vet. Admin, 46-48; dir. counseling, vet. center, DENVER, 48-50, assoc. & asst. dean students, 50-57, instr. PERSONNEL & INDUST. RELS, COL. BUS. ADMIN, 51-53, asst. prof, 53-57, assoc. prof, 57-66, PROF, 66-, dir. psychol. consult. serv, 57-59, centennial scholars prog, 60-61. Exam, Am Inst. Res, Pa, 48-60, testing dir, 61-; assoc. mkt. res, Psychol. Corp, 49-59. Personnel consult, career serv. authority, City & County of Denver, 59-61, Bd. Water Cmnrs, 61-; opers. analyst, Hq. U.S. Air Force, Denver Res. Inst, 63- U.S.A, 41-46, 1st Lt. Psychol. Asn; Mgt. Asn. Historical bases for modern concepts of decentralized administration; steward and committemen attitudes toward the union; technological change and business decision practices. Publ: The engineer and management, Denver Engr; Man in humans, Proc. Am. Humane Asn. Address: 5290 S. Washington St, Littleton, Colo. 80120.

FISCHER, DR. WILLIAM F(RANK), b. New York, N.Y, Apr. 10, 34. CHILD PSYCHOLOGY. B.A, Michigan, 56; M.A, Connecticut, 58, Ph.D, 61. Asst, Connecticut, 57-58, introd. psychol, 58-60, instr. psychol, 60-61; Yale, 61-62; trainee, Lexington Vet. Admin. Hosp, Ky, 62-63; chief clin. psychologist, Lexington Child Guid. Serv, 63-65; ASSOC. PROF. PSYCHOL, DUQUESNE, 65- Summer lectr, Connecticut, 60. Res. assoc, West Haven Vet. Admin. Hosp, 61- Psychol. Asn. Developmental and social psychology; human time and space; nature of anxiety. Publ: Co-auth, Scaling children's incentives by the method of paired comparisons, Psychol. Reports; auth, The problem of unconscious motivation, Humanitas, 68; Toward a phenomenology of anxiety, In: A symposium on psychological stress and anxiety, Holt, in press. Address: Dept. of Psychology, Duquesne University, Pittsburgh, Pa. 15219.

FISCHER, DR. WYMAN EDWIN, b. Frankenmuth, Mich, June 17, 31; m. 55; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Concordia Teachers Col.(Ill), 53; M.S, Southern Illinois, 59, Ph.D.(ed. psychol), 64. Prin, St. John's Lutheran Sch, Ill, 53-61; lectr. ED. PSYCHOL, Southern Illinois, 62-63, instr, 63-64; ASST. PROF, BALL STATE, 64- Dept. Health, Ed. & Welfare grant, Adv. Ed. Summer Res. Inst. Small Col. & Univ. Personnel, 66. Psychol. Asn; Nat. Coun. Measurement in Ed. Prediction studies relating to academic and teaching success; under and over achievement as it relates to occupational success. Publ: As others see you, Lutheran Ed, 12/66. Address: Dept. of Educational Psychology, Ball State University, Muncie, Ind. 47306.

FISCHL, DR. M(YRON) A(RTHUR), b. New York, N.Y, Oct. 13, 29; m. 58. PSYCHOLOGY. B.A, N.Y. Univ, 50; M.A, Hofstra Col, 54; Purdue Res. Found. fel, Purdue, 55-56, Ph.D.(psychol), 56. Sr. proj. dir. indust. psychol, W.R. Simmons & Assocs, 56-57; res. assoc, Courtney & Co, 57-58; scientist human factors, missile & space vehicle dept, Gen. Elec. Co, 58-59; sr. res. assoc, Courtney & Co, 59-60, sr. sci. indust. & appl. psychol, 60-63; dir. personnel res, Nat. Analysts, Inc, 63-65; RES. ASSOC. INDUST. & APPL. PSYCHOL, APPL. PSYCHOL. SERV, 65- Lectr, Hofstra Col, 54; Temple, 62-63; Villanova, 66- Dipl. indust. psychol, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 51-52. Psychol. Asn; Statist. Asn. Applied psychology relative to personnel selection, training, marketing, equipment design, motivation and performance of complex tasks. Publ: Co-auth, Dimensions of visual information displays, Appl. Psychol. Serv, 67 & Studies in adjunct autoinstruction, J. Indust. Psychol, 66; Absolute scaling of job performance, J. Appl. Psychol, 68. Address: 13 Selwyn Dr, Broomall, Pa. 19008.

FISCHMAN, LEONARD L(IPMAN), b. Brooklyn, N.Y, Jan. 23, 19; m. 58. ECONOMICS. A.B, N.Y. Univ, 37; M.A, American Univ, 39. Economist prog. co-ord. div. & chief statist. & spec. studies br, UNRRA, Italy, 46-47; int. trade economist, off. int. trade, U.S. Dept. Commerce, 48-50, acting chief, Mediterranean Sect, 49-50; economist, U.S. Bur. Mines, D.C, 50-53; consult, Econ. Develop. Admin, Commonwealth of P.R, 53-58; private consult, 58-59; DIR, ECON. ASSOCS, 59- Consult, Res. for Future, Inc, 58-; Nat. Capital Transportation Authority, 61. Ed, Minerals Yearbook, 51-53. U.S.A, 41-46. AAAS; Econ. Asn; Statist. Asn; Planning Asn; Acad. Polit. & Soc. Sci; Soc. Int. Develop; Nat. Asn. Bus. Econ. Resource economics; economic projections and development; finance and taxation; urban economics; industrial economics, international trade. Publ: Co-auth, Resources in Americas's future, Johns Hopkins, 63 & Methodology for evaluating costs and benefits of alternative urban transportation systems, Hwy. Res. Record, 66. Address: Economic Associates, 1150 Connecticut Ave, N.W, Washington, D.C. 20036.

FISCHOFF, DR. EPHRAIM, b. New York, N.Y, Oct. 2, 04; m. 43; c. 6. SOCIOLOGY. A.B, City Col. New York, 24; M.H.L, Jewish Inst. Relig, 28; D.S.Sc.(sociol), New Sch. Soc. Res, 42. Lectr, Hunter Col, 42-46; prof. sociol. & head dept, Am. Int. Col, 46-54; dir. B'nai B'rith Found, Univ. California, 54; Yale, 55-58; lectr. sociol. & humanities, LYNCHBURG COL, 58-62, PROF. HUMANITIES & SOC. SCI, 62-, DIR. HONORS PROG, 64- Lectr, sch. nursing, Kings County Hosp, 42-45; New Sch. Soc. Res, 42-51; sch. soc. work, Boston Univ, 49-50; univ. exten, State Dept. Ed, Mass, 51-54; Springfield Hosp. Sch. Nursing, 51-54; Hartford Sem. Found, 53-54; Starr-King Sch. Ministry, 54; univ. exten, California, 54; lectr, div. exten. & gen. studies, Univ. Virginia, 58-, Ford Found. fel. Asian studies, 53-57, vis. prof, 65-67; Hollins Col, 65-67; lectr, Lynchburg Training Sch. & Hosp, 67- Consult, World Jewish Cong, 41-45; Nat. Found. Infantile Paralysis, 42-43. Asst. ed, J. Legal & Polit. Sci, 43-45. Mem. steering cmt, South. Regional Ed. Bd; exec. bd, Sheltered Workshop. Del, Coun. Soc. Work Ed. AAAS; fel. Soc. Appl. Anthrop; fel. Sociol. Asn; Psychol. Asn; Asn. Soc. Workers; Acad. Cert. Soc. Workers; Soc. Polit. & Legal Philos; Acad. Relig; Philos. Ed. Soc; Am. Studies Asn; Soc. Biblical Lit; Soc. Psychol. Study Social Issues; Soc. Sci. Study Relig; Ling. Soc. Am; Oriental Soc; Polit. Sci. Asn; Soc. Psychol. Study Social Probs; Société Europeenne de Culture. Sociology of religion; social theory; social medicine and legislation. Publ: Ed, From war to peace; ed. collab, Palestine; transl, Sociology of religion. Address: 15 Riverview Place, Lynchburg, Va. 24503.

FISH, DR. JEANNE ELOISE, b. Hays, Kans, Dec. 9, 29. CLINICAL PSYCHOLOGY. A.B, Baker, 51; M.A, Kansas, 55, Ph.D.(clin. psychol), 60. Instr. PSYCHOL, DEPT. PSYCHIAT, SCH. MED, KANSAS, 58-64, ASST. PROF, 64-, CHIEF PSYCHOLOGIST CHILD PSYCHIAT, 65- Psychol. Asn; Orthopsychiat. Asn. Normal child development; clinical applications to emotional disturbances. Address: Division of Child Psychiatry, University of Kansas School of Medicine, 39th & Rainbow, Kansas City, Kans. 66103.

FISH, DR. LLOYD E(DWARD), b. Kane, Pa, Dec. 10, 07; m. 35; c. 2. PSYCHOLOGY. B.A, Bryan, 35; M.A, Wheaton Col, 39; Ph.D, Tennessee, 54. Prof. psychol, Bryan, 35-52; guid. consult, state testing prog, Tennessee, 52-54; CLIN. PSYCHOLOGIST, Vet. Admin. Hosp, Murfreesboro, Tenn, 54-60, Salem, Va, 60-61; MENT. HYG. CLIN, VET ADMIN. REGIONAL OFF, ROANOKE, VA, 61- Consult. psychologist, City/State Clin. Mentally Retarded Children, 64- Psychol. Asn. Personality structure; mental retardation. Address: 2648 Jackson Dr, Salem, Va. 24153.

FISH, DR. MARY, b. Albert Lee, Minn, July 17, 30; m. 54; c. 3. ECONOMICS. B.B.A, Minnesota, 51; M.B.A, Tex. Tech. Col, 57; Am. Asn. Univ. Women's fel, Oklahoma, 60-61, Ph.D.(econ), 63. Pub. health analyst, Calif. State Pub. Health Dept, 53-54; anal. statistician, Med. Gen. Lab, U.S. Army Forces, Japan, 54-55; instr. econ. & bus, Odessa Col, 57-58; asst. ECON, Oklahoma, 60; assoc. prof, West Texas State, 61-66; asst. prof, ALABAMA, 66-67, ASSOC. PROF, 67- Econ. Asn; Econ. Hist. Asn. Macroeconomics; economic development. Publ: Abstract, Public Law 480: the use of agricultural surpluses as aid to underdeveloped countries, Am. Economist, summer 64; The economic world of tomorrow, World Order Mag, 1/67; Rev, The structure of economic science, essays on methodology, Miss. Valley J. Bus. & Econ, fall 67. Address: Dept. of Economics, School of Commerce & Business Administration, University of Alabama, University, Ala. 35486.

FISH, DR. OLIVE C(AROLYN), b. Cleveland, Ohio, Mar. 22, 96. GEOGRAPHY. A.B, Western Reserve, 17; M.A, Wisconsin, 23, Ph.D, 27. Prof. ed, Ill. Womans Col, 27-29; soc. studies, STATE UNIV. N.Y. COL. CORTLAND, 29-60, EMER. PROF. GEOG, 66- AAAS; Asn. Am. Geog; fel. Geog. Soc. Latin American geography, especially Central America. Address: 2508 W. Oak St, Kissimmee, Fla. 32741.

FISHBAINE, DR. EDWIN, b. Brooklyn, N.Y, May 2, 26; m. 53; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 49; M.A, New Sch. Soc. Res, 51, Ph.D.(psychol), 53. Asst. psychol, Wesleyan, 51-52; Worcester State Hosp. fel, 53-55; sr. psychologist, Rollman Receiving Hosp, Cincinnati, Ohio, 55-56; chief psychologist, Lower Miami Valley Guid. Center, Ohio, 56-59; Long Beach Ment. Health Clin, N.Y, 59-60; private practice, 60-; dir, Queens Consultation Center, 65- Consult, Jewish Community Serv. L.I, 65- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 60. Psychotherapy; training psychotherapists. Address: 722 Caldwell Ave, North Woodmere, N.Y. 11581.

FISHBEIN, DR. HAROLD DENNIS, b. Milwaukee, Wis, May 13, 38; m. 62; c. 1. PSYCHOLOGY. B.A, Illinois, 59; U.S. Pub. Health Serv. fels. Pennsylvania, 60-63, Ph.D, 63. Indiana Univ. Found. res. fel, PSYCHOL, Indiana. 63-64; asst. prof, CINCINNATI, 64-68, ASSOC. PROF, 68- Res. grants, Nat. Inst. Health, 65-66, Nat. Sci. Found, 66-68. Psychol. Asn; Psychonomic Soc. Perceptual variables in conditioning and learning; concept learning: classical conditioning. Publ: Effects of differential instructions, differential feedback and UCS intensity on the conditioned eyelid response, 75: 56-63, Effects of differential instructions and number of acquisition trials in extinction and reacquisition of the conditioned eyelid response, 75: 126-127 & co-auth, Human eyelid conditioning as a function of interstimulus interval, 75: 130-132, J. Exp. Psychol. Address: Dept. of Psychology, University of Cincinnati, Cincinnati, Ohio 45221.

FISHBEIN, MEYER H(ARRY), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FISHBURN, DR. PETER CLINGERMAN, b. Philipsburg, Pa, Sept. 2, 36; m. 58 c. 3. MATHEMATICAL PSYCHOLOGY. B.S, Pa. State, 58; M.S, Case, 61, Ph.D.(opers. res), 62. Asst. prof. opers. res, Case, 62-63; RESEARCHER, RES. ANAL. CORP, 63- Fulbright lectr, inst. math. statist. & opers. res, Tech. Univ. Denmark, 67- AAAS; Opers. Res. Soc; Inst. Mgt. Sci; Economet. Soc. Decision theory; utility theory; theory of subjective probability. Publ: Decision and value theory, Wiley, 64; Bounded expected utility, Ann. Math. Statist, 8/67; Utility theory, Mgt. Sci, 1/68. Address: Research Analysis Corp, McLean, Va. 22101.

FISHBURNE, DR. CHARLES C, JR, b. Savannah, Ga, Nov. 16, 20; m. 44; c. 2. POLITICAL SCIENCE. B.S, U.S. Mil. Acad, 42; M.A, Maryland, 57; Vermont, 59-60; fel, Fla. State, 62-63, Ph.D.(polit. sci), 64. Prof. air sci, Vermont, 57-60; asst. prof. govt, Jacksonville, 65-66; INSTR. POLIT. SCI, EDISON JR. COL, 66- U.S.A.F, 42-62, Lt. Col. Polit. Sci. Asn; Nat. Munic. League. United States foreign policy toward non-western states; modernization of state and local governments in the United States. Publ: Co-auth, The unicameral legislature, Univ. Florida Law Rev, winter 64; auth, Issues confronting the 1965 Florida legislature, Govt. Res. Bull, 3/65; co-auth, Why a second house, Nat. Civic Rev, 9/66. Address: Route 1, Box 822, Sanibel Island, Fla. 33957.

FISHEL, PROF. WESLEY R(OBERT), b. Cleveland, Ohio, Sept. 8, 19; m. 44; c. 4. POLITICAL SCIENCE. B.S, Northwestern, 42; Michigan, 43; Ph.D. Chicago, 48. Instr. POLIT. SCI, California, Los Angeles, 48-51; asst. prof, MICH. STATE, 51-54, assoc. prof, 54-57, PROF, 57-67, JAMES MADISON COL, 67- Chief adv, Univ. Vietnam Proj, Saigon, 56-58; Guggenheim fel, 61-62. Consult, opers. res. off, Hopkins, 52-56; govt. re-orgn, For. Opers. Admin, 54-55; Int. Coop. Admin, 55; adv. to Prime Minister, Vietnam, 55; consult, spec. opers. res. off, American Univ, 58-61; Dept. State, 63. Chmn. bd, Am. Friends Vietnam, 64-66. U.S.N.R, 41-42; U.S.A, 42-45, Lt. Polit. Sci. Asn; Soc. Int. Law; Asn. Asian Studies. International relations; Japanese government and politics; comparative Asian politics; Japanese foreign relations. Publ: End of extraterritoriality in China; Problems of freedom: South Vietnam since independence; Vietnam: anatomy of a conflict, Peacock, 68. Address: 4572 Ottawa Dr, Okemos, Mich. 48864.

FISHER, PROF. ALAN E(DMUND), b. Pittsburgh, Pa, Feb. 4, 26; m. 50; c. 2. PSYCHOLOGY. B.S, Pa. State, 49, M.S, 52, Ph.D.(psychol), 55; fel, R.B. Jackson Mem. Lab, 53-54; U.S. Pub. Health Serv. fel, McGill, 54-55. Asst, Pa. State, 51-53; R.B. Jackson Mem. Lab, 53-54; U.S. Pub. Health Serv. fel, Wisconsin, 55-57, lectr, 56-57; asst. prof, PITTSBURGH, 57-61, assoc. prof. psychol, 61-66, PROF, 66-67, PSYCHOL. & PHARMACOL, 67- Co-dir. training prog. psychobiol, Pittsburgh, 67- U.S.A, 44-46, Lt. AAAS; Psychol. Asn. Effects of early experience; heredity and behavior; brain and behavior, neural and humoral mediation of the biological drives; chemical stimulation of the brain. Publ: Chemical stimulation of the brain, Sci. Am, 6/64; Chemical and electrical stimulation of the brain in the male rat, In: Brain and behavior, vol. III, the brain and gonadal function, Univ. California, 66; Role of limbic structures in the central regulation of feeding and drinking behavior, Ann. N.Y. Acad. Sci, 1/68. Address: Dept. of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15213.

FISHER, PROF. ALBERT L(eROY), b. Meadow, Utah, Sept. 5, 25; m. 50; c. 2. GEOGRAPHY. B.S, Utah, 51; M.A, Hopkins, 52, Ph.D.(geog), 54. Instr.

GEOG, McCoy Col, Hopkins, 52-53; asst. prof, Brigham Young, 53-60; assoc. prof, UTAH, 60-65, PROF, 65-, CHMN. DEPT, 60- Chmn. soc. sci. div. & asst. to pres, Col. Virgin Islands, 65-66. U.S.A, 43-45. Asn. Am. Geog. Political geography; development of underdeveloped areas; geography of unconventional warfare. Publ: East Indians in the south Caribbean, Pac. Northwest Geogr, autumn 63; To beat the guerrillas, Mil. Rev, 12/63; Cultural fragmentation in the Caribbean, Rocky Mt. Soc. Sci. J, 4/67. Address: Dept. of Geography, University of Utah, Salt Lake City, Utah 84112.

FISHER, PROF. ALDEN L(OWELL), Philos. of Sci, Psychol, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

FISHER, PROF. ALLAN J(ERRY), b. Camden, N.J, Sept. 7, 06; m. 38. BUSINESS FINANCE. B.S, Pennsylvania, 28; summers, Wisconsin, 34-35; Litt.M, Pittsburgh, 36, Ph.D.(int. finance), 37. Asst. prof. econ, American Univ, 37-39, lectr, 46-51; asst. prof. bus. admin, MARYLAND, 39-41, PROF. ACCT. & FINANCE, 51- Assoc. res. acct, Securities & Exchange Cmn, 41-42; economist & asst. div. chief, U.S. Treas. Dept, 42-51, consult, 51-; commodity exchange admin, U.S. Dept. Agr, 37-39, lectr, grad. sch, 39-41, 42-45. Finance specialist, U.S. Mil. Govt, Germany, 45-46. Econ. Asn; Am. Acct. Asn; Finance Asn; Royal Econ. Soc. Corporation and international finance; accounting. Publ: International aspects of British monetary policy; Personal and automobile insurance; Accounting cases. Address: Dept. of Business Administration, University of Maryland, College Park, Md. 20740.

FISHER, DR. BERENICE (MALKA), b. Chicago, Ill, Jan. 16, 36. SOCIOLOGY. B.A, Chicago, 58, M.A, 60; Ph.D.(ed), California, Berkeley, 65. ASST. PROF. ED. POLICY STUDIES & SOCIOL, WISCONSIN, 65- Inst. Res. on Poverty grant, Wisconsin, 66-67. Sociological and historical study of educational ideologies and institutions, especially education for occupations and the use of education in the history of American social reform. Publ: Industrial education: American ideas and institutions, Univ. Wisconsin, 67; Education and philanthropy, Teachers Col. Record, 5/67; Education for mechanized agriculture, Explor. in Entrepreneurial Hist, spring-summer 67. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

FISHER, PROF. CHARLES W(ESLEY), b. Seattle, Wash, Dec. 17, 17; m. 44; c. 4. SOCIOLOGY. A.B, Whitman Col, 39; S.T.B, Boston, 43, Ph.D, 49. Assoc. prof. SOCIOL, California Western, 59-67, chmn. dept, 62-67; PROF, WEST TEXAS STATE, 67- Consult, leadership workshop, Lewis & Clark Col, 50. Sociol. Asn; Pop. Asn. Minority groups; social psychology; religion; community. Publ: Development of Morgan Memorial as a social institution; Toward a Christian social ethic; Living in Las Vegas: some social characteristics, behavior patterns, and values of local residents, 67. Address: Dept. of Sociology, West Texas State University, Canyon, Tex. 79015.

FISHER, PROF. C(LYDE) O(LIN), b. Kitrell, N.C, Aug. 8, 91. ECONOMICS. A.B, Trinity Col.(N.C.), 11; A.M, Columbia, 16; univ. fel, Cornell, 16-17, White fel, 17-19, Ph.D, 19; hon. A.M, Wesleyan, 23; LL.D, Duke, 41. Instr. ECON, Cornell, 17-19; asst. prof, Clark, 19-20; assoc. prof, WESLEYAN, 20-22, prof, 22-59, EMER. PROF, 59- City economist, Cleveland, Ohio, 33, 37. Chmn, State Bd. Mediation & Arbitration, Conn, 35-41; wage indust. cmts, Fair Labor Standards Act, 39-40; mem, State Regulation Pub.Utilities Cmn, Conn, 41-47. Econ. Asn; Acad. Polit. Sci. Economic theory; finance; labor; use of federal power in the settlement of railway labor disputes. Address: Dept. of Economics, Wesleyan University, Middletown, Conn. 06457.

FISHER, DR. DOUGLAS, b. Pittsburgh, Pa, July 2, 34; m. 59. ECONOMICS. A.B, Pittsburgh, 57, M.A, 58; fel, Brown, 60-61; London Sch. Econ, 63-64; Earhart fel. & Ph.D.(econ), Chicago, 65. Asst. prof. econ, Queens Col.(N.Y), 65-66; polit. econ, grad. sch. pub. affairs, State Univ. N.Y. Albany, 66-67; ASSOC. PROF. ECON, QUEENS COL.(N.Y), 67- Econ. Asn; Statist. Asn; Finance Asn. Monetary theory and policy; economic development; international trade and finance. Publ: Structure of interest rates: a comment, 11/64 & Expectations, the term structure of interest rates, and recent British experience, 8/66, Economica; Modern small industry for developing nations, Econ. Develop. & Cultural Change, 4/67. Address: Dept. of Economics, Queens College, Flushing, N.Y. 11367.

FISHER, DR. EMANUEL E(DWARD), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

FISHER, PROF. ERNEST M(cKINLEY), b. Macedonia, Ill, May 15, 93; m; c. 1. LAND ECONOMICS. A.B, Coe Col, 14, LL.D, 50; A.M, Wisconsin, 22; Ph.D, Northwestern, 30. Dir. ed. & res, Nat. Asn. Real Estate Bds, 23-26; assoc. prof. real estate mgt, Michigan, 26-29, prof. 30-36; dir. div. econ. & statist. & econ. adv, Fed. Housing Admin, 34-40; dir. res. mortgage & real estate finance, Am. Bankers Asn, 40-45, dep. mgr, 43-45; prof. URBAN LAND ECON, GRAD. SCH. BUS. & SCH. ARCHIT, COLUMBIA, 45-60, EMER. PROF, 60-, chmn. admin. bd. & dir. inst. urban land use & housing studies, 47-55. Consult, U.S. Dept. Commerce, 34; Defense Housing Coordinator, 41-42; U.S. Bur. Census, 38-40, 47-53, 55-, housing monogrs, 41-42; dep. adv, U.S. Dept. State, 43; consult, U.S. Bur. Budget, 47-53; legis. ref. serv, Library of Cong, 47-49; Fed. Reserve Syst, 50-53. Chmn. subcmt. res. & statist, Cent. Housing Cmt, 36-40. Sig.C, U.S.A, 18-19. Fel. AAAS; Econ. Asn; fel. Statist. Asn.(v.pres, 41); Acad. Polit. Sci. Housing; home financing. Publ: Co-auth, Mutual mortgage insurance fund & Urban real estate; auth, Urban real estate markets. Address: 199 Hillcrest Ave, Leonia, N.J. 07605.

FISHER, DR. EVERETT JAMES, b. Rural Retreat, Va, July 15, 20; m. 47; c. 4. PSYCHOLOGY. A.B, Berea Col, 42; M.A, Tennessee, 48, Ph.D.(psychol), 62. Instr. English & psychol, East Tenn. State, 48-49; vet. counsr, TENNESSEE, 49-52, student counsr, 52-62, COORDINATOR TESTING, 62- U.S.A.A.F, 42-46, Sgt. Psychol. Asn. Academic prediction. Address: P.O. Box 46, Powell, Tenn. 37849.

FISHER, PROF. FRANKLIN M(ARVIN), b. New York, N.Y, Dec. 13, 34; m. 58; c. 1. ECONOMICS. A.B, Harvard, 56, Rodgers & Austin fel, 56-57, M.A, 57, jr. fel, Soc. Fels, 57-59, Ph.D.(econ), 60. Asst. prof, ECON, Chicago, 59-60; MASS. INST. TECH, 60-62, assoc. prof, 62-65, PROF, 65- Nat. Sci. Found. fel, 62-63; Ford Found. faculty res. fel. econ, 66-67. Consult, various pub. firms & govt. agencies, 64- Am. ed, Rev. Econ. Studies, 65- Mem. proj. economet. models, Soc. Sci. Res. Coun, 60- Econ. Asn; fel. Economet. Soc. Theory of econometrics and mathematical economics; demand analysis and econometric estimation of economic parameters in general; cost benefit analysis. Publ: Supply and costs in the United States petroleum industry: two econometric studies, Johns Hopkins, 64; The identification problem in econometrics, McGraw, 66; Embodied technical change and the existence of an aggregate capital stock, Rev. Econ. Studies, 10/65. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

FISHER, GAIL FEIMSTER, b. Washington, D.C, Sept. 18, 28; m. 50; c. 2. STATISTICS. B.A, Maryland, 49, M.A, 51. Asst. sociol, Maryland, 47-51; pub. health analyst, air pollution prog, U.S. PUB. HEALTH SERV, 56-58, chief spec. studies sect, div. accident prev, 58-61, chief statistician, arthritis & diabetes prog, 61-67, EVAL. OFFICER, BUR. HEALTH SERV, 67- Pub. Health Asn; Diabetes Asn. Health problems of air pollution; accident prevention; diabetes; arthritis and health care facilities; evaluation of health programs; program planning and cost-effectiveness studies. Publ: Co-auth, Diabetes source book, 65 & Arthritis source book, 66, GPO; auth, Diabetes prevalence in the U.S, Pub. Health Reports, 67. Address: Bureau of Health Services, U.S. Public Health Service, 7915 Eastern Ave, Silver Spring, Md. 20919.

FISHER, DR. GARY M(ARTIN), b. Winnipeg, Man, June 2, 31; m. 54; c. 3. PSYCHOLOGY. B.A, Manitoba, 52; M.A, Utah, 55, U.S. Pub. Health Serv. grant, 55-56, Ph.D, 62. Intern clin. psychol, dept. psychiat, col. med, Utah, 55-56, res. asst. prev. med, 56-57; staff psychologist, Utah State Ment. Hosp, 57-58; clin. psychologist, Calif. State Dept. Ment. Hyg, 58-63; Calif. State Dept. Corrections, 63-64; field assess officer, Univ. Hawaii, 65-66; ASST. PROF. PUB. HEALTH, CALIFORNIA, LOS ANGELES, 67- Private practice, 59-; staff psychologist, Ingleside Lodge Hosp, 59-63. Consult, Hawaii Children's Health Serv, 65-; Los Angeles County Ment. Health Dept, 67-; Calif. Dept. Corrections, 67- Psychol. Asn. Mental health education; criminology. Publ: Comparison of IQ's of mental defectives on the WAIS & 1960 revision of Stanford-Binet, L-M, J. Consult. Psychol; Preference rankings of TAT cards by adolescent normals, delinquents & mental retardates, J. Proj. Tech; Efficiency of Hewson ratios in diagnosis of cerebral pathology, J. Nervous & Ment. Disease. Address: School of Public Health, University of California, 405 Hilgard Ave, Los Angeles, Calif. 90024.

FISHER, DR. GENE HARVEY, b. Indianapolis, Ind, Aug. 20, 22; m. 46; c. 2. ECONOMICS, STATISTICS. B.S. & M.B.A, Southern California, 47; Ph.D. (econ, statist), Ohio State, 51. Statistician, Ind. Bell Tel. Co, 47-48; instr. statist, Ohio State, 50-51; STATISTICIAN & ECONOMIST, RAND CORP, 51-U.S.A, 43-46; Bronze Star medal. Econ. Asn; Economet. Soc. Business cycle theory; monetary theory; econometrics, especially macro-economic models. Publ: Cost-utility analysis in program budgeting, In: Program budgeting, Harvard, 65; Endogenous and exogenous investment in macro-economic models, Rev. Econ. & Statist; Federal budget as a business indicator, Harvard Bus. Rev. Address: 1700 Main St, Santa Monica, Calif. 90406.

FISHER, DR. GLEN H(ARRY), b. Nappanee, Ind, Aug. 23, 22; m. 45; c. 2. SOCIOLOGY, ANTHROPOLOGY. A.B, Manchester Col, 45; M.A, North Carolina, 49, Ph.D.(sociol. & anthrop), 52. Staff sociologist, for. serv. inst, U.S. DEPT. STATE, 53-56, second secy, Embassy, Caracas, Venezuela, 56-58, Am. consul, Cebu, P.I, 59-61, econ. officer, Am. Embassy, Manila, 61-63, training officer, For. Serv. Inst, 63-64, coordinator introductory area studies, 64-65, INT. RELS. OFFICER, BUR. INTER-AM. AFFAIRS, BUR. LATIN AM, 65- Consult, soc. policy & develop. sect, UN, 52. Am. Sociol. Asn; Philippine Sociol. Soc. Intercultural communication in international affairs; directed culture change and community development. Publ: When Americans live abroad; Directed culture change in Nayarit, Mexico; Desarrollo de la communidad local de Nayarit. Address: Bureau of Inter-American Affairs, Bureau of Latin America, U.S. Dept. of State, 2201 C St. N.W, Washington, D.C. 20001.

FISHER, PROF. GLENN W(ILLIAM), b. Lewis Co, Mo, May 23, 24; m. 49; c. 3. ECONOMICS. B.A, Iowa, 48; M.A, North Carolina, 50; Ph.D.(econ), Wisconsin, 54. Prof. econ. & bus. & head dept, Lander Col, 49-51; instr. econ, N.Dak. State, 54-56, asst. prof, 56-59, assoc. prof, 59-61; ILLINOIS, 61-66, PROF. GOVT. & PUB. AFFAIRS, 66- Res. assoc, State Legis. Res. Cmt, N.Dak, 60-61; Ill. Cmn. on Revenue, 62-63; consult, Ill. Municipal Probs. Cmn, 64-67. U.S.A, 43-45. Econ. Asn; Nat. Tax Asn; Polit. Sci. Asn. Taxation; fiscal policy; government and business; politics of taxation. Publ: Financing Illinois government; Interstate variation in state and local government expenditure, Nat. Tax J, 3/64; co-auth, Politics of property taxation, Admin. Sci. Quart, 6/67. Address: 1201 W. Nevada, Urbana, Ill. 61801.

FISHER, PROF. GRANVILLE C(HAPMAN), b. Nashville, Tenn, Apr. 11, 06; m. 40; c. 2. PSYCHOLOGY. Ph.D.(psychol), Chicago, 49. Psychologist, Cook County Criminal Court, Chicago, Ill, 45-46; PROF. PSYCHOL, MIAMI (FLA), 46- Psychol. Asn. Personality theory; psychotherapy; creative expression. Publ: Management of fear in the child patient, J. Am. Dent. Asn; Selective and differentially accelerated intellectual dysfunction in specific brain damage, J. Clin. Psychol; Index of adjustment to life in later maturity, Geriat. Address: 3929 Ponce de Leon Blvd, Coral Gables, Fla. 33134.

FISHER, PROF. H(AROLD) H(ENRY), b. Morristown, Vt, Feb. 15, 90. INTERNATIONAL RELATIONS. A.B, Vermont, 11, L.H.D, 36. Teacher, Mercersburg Acad, Pa, 12-14; Hill Sch, 15-17; chief hist. dept, Am. Relief Admin, 20-24; lectr. HIST, STANFORD, 24-33, assoc. prof, 33-36, prof, 36-55, v.chmn. & mem. bd. dirs, Hoover War Library, 26-41, chmn, Hoover Inst. & Library, 41-55, dir. civil affairs training sch, 43-45, civil communications intel. sch, 45-46, sch. naval admin, 46-48, EMER. PROF, 55- Prof, San Francisco State Col, 55-60; vis. prof, Columbia, 40, 57; Tokyo, 54; California, 60-61; Mills Col, 61-64. Mem, Harris Found. Inst, Chicago, 35.

U.S.A, 17-19, Capt. Hist. Asn; Polit. Sci. Asn; Acad. Polit. Sci. History; political science. Publ: The famine in Soviet Russia, Macmillan, 27; America and Russia in the world community, Claremont Col, 46; co-auth, Soviet Russia and the West, Stanford, 57. Address: 1331 Martin Ave, Palo Alto, Calif. 94301.

FISHER, DR. HAROLD R(AY), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

FISHER, DR. HILDA B, b. Vicksburg, Miss, Dec. 3, 14; wid; c. 1. LINGUISTICS. B.A, Northwest. State Col.(La), 33; M.A, La. State 38, Ph.D.(speech), 49. From instr. to ASSOC. PROF. COMMUNICATIVE DISORDERS, NORTHWESTERN, 49- Ling. Soc; Speech Asn; Speech & Hearing Asn; Int. Asn. Logoped. & Phoniat. Acoustic phonetics; vocal physiology; communicative disorders. Publ: Improving voice and articulation, Houghton, 66; co-auth, Acoustic parameters of internal open juncture, Quart. J. Speech, 12/67. Address: 1831 Hinman Ave, Evanston, Ill. 60201.

FISHER, DR. JACK C(ARRINGTON), b. Cortland, N.Y, Aug. 30, 32; m. 55. GEOGRAPHY. B.A, Syracuse, 56, M.A, 58, Ph.D, 62; Inst. Geog, Polish Acad. Sci, 60; Ford Found. grant, Yugoslavia, 60-62. Res. assoc. Soviet urban planning, Russian Res. Center, Harvard, 61-62; asst. prof. city & regional planning, Cornell, 62-68, asst. dir. regional studies, center housing & environ. studies, 65-68; ASSOC. DIR. CENTER URBAN STUDIES, WAYNE STATE, 68- Ford Found. travel & study grant, 63-64; res. assoc, Resources for Future, D.C, 65-66; dir. planning, Am-Yugoslav Proj. Regional & Urban Planning Studies, Ljubljana, Yugoslavia, 66-68. U.S.A, 52-55. Asn. Am. Geog; assoc. mem. Inst. Planners; Regional Sci. Asn. Regional geography of eastern Europe and Soviet Union; Soviet and east European urban and regional planning; regional and state planning in the United States. Publ: Yugoslavia: a multinational state, Chandler Pub, 66; ed, City and regional planning in Poland, Cornell, 66; auth, The Yugoslav commune, World Polit, 4/64. Address: Center for Urban Studies, Wayne State University, Detroit, Mich. 48202.

FISHER, DR. JAMES L(EE), b. Decatur, Ill, June 2, 31; m. 52; c. 4. COUNSELING PSYCHOLOGY. B.S, Illinois State, 56, M.S, 57; Ph.D.(counseling, psychol), Northwestern, 63; summer, Michigan, 64. Counterintel. investr, U.S. Marine Corps, 51-54; asst. soc. sci, Illinois State, 56-57; teacher & counsr, high sch, 57-59; asst. dir. admissions, Northwestern, 59-63, dir. student financial aids & asst. prof. psychol, 60-63; assoc. prof, ILLINOIS STATE, 63-66, asst. to pres, 63-65, EXEC. ASST. TO PRES, 65-, V.PRES. & DEAN INFO. & RES. SERV, 67-, v.pres. info. serv, 66-67. Consult. private indust, 60-; mem. adv. coun, Nat. Merit Scholar. Corp, 65-; consult. exam, N.Cent. Asn, 66- U.S.M.C, 54-57, Sgt. Psychol. Asn. Address: Illinois State University, Normal, Ill. 61761.

FISHER, DR. JEROME, b. Brooklyn, N.Y, Sept. 10, 16; m. 41; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 37, M.A, 39; Ph.D.(psychol), California, 50. Lectr, sch. med, Stanford, 54-60; CHIEF PSYCHOLOGIST, LANGLEY PORTER NEUROPSYCHIAT. INST, CALIFORNIA, SAN FRANCISCO, 60-, ASSOC. CLIN. PROF. MED. PSYCHOL, SCH. MED, 61- From asst. prof. to prof, San Francisco State Col, 50- Psychologist, ment. hyg. clin, Vet. Admin, San Francisco, 46, intern, training prog, 48-49, chief clin. psychol. sect, Hosp, 49-60. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 42-46. Fel. Psychol. Asn. Medical psychology; personality-behavior theory and assessment; gerontological research. Publ: The twisted pear and the prediction of behavior, J. Consult. Psychol; co-auth, Dimensions of intellectual functioning in the aged, J. Geront, 66 & Validity of the psychiatric interview, Arch. Gen. Psychiat, 12/67. Address: Langley Porter Neuropsychiatric Institute, University of California Medical Center, San Francisco, Calif. 94122.

FISHER, DR. JOEL M, b. Chicago, Ill, June 24, 35. POLITICAL SCIENCE. A.B, Southern California, 55; LL.B, California, Berkeley, 61, M.A, 62; Ph.D. (govt), Claremont Grad. Sch. & Grad. Center, 68. Assoc. pub, Advance Mag: Jour. Polit, 63; orgn. dir. & acting exec. dir, Republican Citizens Cmt. of United States, 64-65; pub. rels. dir, Wash. World Conf, World Peace Through Law Center, 65; vis. prof. polit. sci, CALIF. STATE COL. FULLERTON, 66, ASST. PROF. POLIT, 67- Pub. rels. dir, Commun. Assocs, 61-; regional campaign dir, Keating Senate Cmt, 64; study grant, Swinton Conservative Col, 65-66. Consult, Republican Nat. Cmt, 64-67; Republican Gov. Asn, 65-67. Mem, Friends of Col. Res. Grant & secy, South. Calif. Center Ed. & Pub. Affairs, 67- Mem. bd, Richard A. Ports Congressional & Pub. Affairs Internship, 64-; Chesapeake Found, 64- U.S.A.R, 54-57, Capt. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Soc. Int. Law. American politics and the role of the national party chairman in American politics; Soviet international law; California's political parties; urban politics; Publ: Co-auth, Citizens for X, Republican Congressional Cmt, 64; auth, The struggling voice: Britain's Conservative party, 1966, Republican Nat. Cmt, 64; Out of power: GOP in America, Swinton Jour, summer 66. Address: Dept. of Political Science, California State College at Fullerton, Fullerton, Calif. 92631.

FISHER, DR. JOSEPH L(YMAN), b. Pawtucket, R.I, Jan. 11, 14; m. 42; c. 7. ECONOMICS. B.S, Bowdoin Col, 35; M.A, Harvard, 38, Ph.D.(econ), 47; M.A, George Washington, 51. Instr. econ, Allegheny Col, 38-40; planning technician, Nat. Resources Planning Bd, 39-43; assoc. div. dir, U.S. Dept. State, 43; instr. econ, Harvard, 46-47; economist & admin. officer, Coun. Econ. Adv, 47-53; assoc. dir, RESOURCES FOR THE FUTURE, INC, 53-60, PRES, 60- Consult, various fed. govt. agencies. Mem, Arlington County Bd, 64-, chmn, 65. U.S.A, 43-46. AAAS; Econ. Asn; Soc. Pub. Admin; Arctic Inst. N.Am. Economics of natural resource development; regional economic analysis; economic problems in health, education and welfare. Publ: Co-auth, Resources in America's future, 63 & World prospects for natural resources, 65, Hopkins. Address: 2608 N. 24th St, Arlington, Va. 22207.

FISHER, DR. LOUIS, JR, b. Norfolk, Va, Aug. 17, 34. POLITICAL SCIENCE. B.S, Col. William & Mary, 56; univ. scholar, New Sch. Soc. Res, 64-65, Nat. Sci. Found. fel, 65-67, M.A, 66, Ph.D.(polit. sci), 67. Sales rep, Dow Chemical Co, 59-60; writer, Miles-Samuelson Inc, N.Y, 60-62; asst. ed, Plastics Tech, 62-63; ASST. PROF. POLIT. SCI, QUEENS COL.(N.Y), 67- Mem, Nat. Bur. Econ. Res. Edith Henry Johnson Mem. award, New Sch. Soc. Res, 67.

Chem. C, U.S.A, 57-59, 1st Lt. Polit. Sci. Asn. Economic policy; American presidency, particularly with regard to economic powers over spending, tariffs, credit policy and standby tax authority proposal. Address: 808 West End Ave, Apt. 201, New York, N.Y. 10025.

FISHER, DR. MARGARET W(ELPLEY), b. Haverhill, Mass, Feb. 21, 03; m. 34; c. 2. POLITICAL SCIENCE. A.B, Mt. Holyoke Col, 24; M.A, George Washington, 32; Ph.D.(anthrop), Pennsylvania, 35. From res. polit. scientist to LECTR. POLIT. SCI, CALIFORNIA, BERKELEY, 51- Ed, Indian Press Digests, 51- Fel. Anthrop. Asn; Polit. Sci. Asn. Political anthropology; government and politics of South Asian countries, especially India; impact of South Asian countries on international affairs. Address: Dept. of Political Science, University of California, Berkeley, Calif. 94720.

FISHER, PROF. M(ILES) BRUCE, b. Berkeley, Calif, Oct. 2, 07; m. 37; c. 2. PSYCHOLOGY. A.B, California, 28; Ph.D.(psychol), Yale, 37. Instr. ed. & psychol, R.I. State Col, 36-38, asst. prof, 38-40, assoc. prof, 40-41; asst. prof. PSYCHOL, FRESNO STATE COL, 41-46, assoc. prof, 46-49, PROF, 49-, ASSOC. V.PRES. ACAD. PLANNING, 65-, acting dean arts & sci, 64-65. State col. dean instnl. rels. & student affairs, off. chancellor, Calif. State Cols, 62-64. Fel. Psychol. Asn; fel. Geront. Soc. Aging; vision. Address: Fresno State College, Fresno, Calif. 93726.

FISHER, DR. PAUL, b. Vienna, Austria, July 9, 08; nat; m. 48. ECONOMICS. J.D, Vienna, 30; U.S. Dept. State Res. grant, Germany, 50; Soc. Sci. Res. Coun. fel, France, 50. Asst. labor law, Vienna, 34-38; Col. William & Mary, 39-40; Fordham, 40; instr, Tilton Jr. Col, 40-41; Maine, 41-43; asst. prof, Clark, 43-46; econ, Dartmouth Col, 46-50; soc. develop. adv, Agency Int. Develop, 55-64; CHIEF INT. STAFF, SOC. SECURITY ADMIN, DEPT. HEALTH, ED. & WELFARE, 64- Adj. prof, American Univ, 50- Consult, Ford Found, 67. Econ. Asn; Indust. Rels. Res. Asn; Arbit. Asn. Economic development; labor economics; labor and social security legislation; comparative labor law; international manpower planning. Publ: Economic role of unions in less developed areas, Monthly Labor Rev; Old-age and sickness insurance in West Germany in 1965, Soc. Security Admin. Res. Report, 66; Social security and development planning, Soc. Security Bull, 6/67. Address: 7024 Bybrook Lane, Chevy Chase, Md. 20015.

FISHER, PROF. RALPH T(ALCOTT), JR, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FISHER, DR. RAYMOND C(HARLES), b. Pine River, Minn, Aug. 19, 20; m. 49; c. 2. PSYCHOLOGY. B.S, Oregon, 49, M.S, 51, Ph.D, 60. Chief psychologist, Oregon State Hosp, 51-56; asst. child guid, Oregon, 56-57, res. assoc, Kellogg Proj, 55-60; psychologist, Central Minn. Ment. Health Center, 61-62; CLIN. PSYCHOLOGIST, 62- Private practice, 59-61, 62- Consult, Klamath County Child Guid. Clin, Ore, 61; Corvallis Child Guid. Clin, 61; Elk River Sch. System, Minn, 62; Div. Voc. Rehab, 62; Lane County Juvenile Dept, 63- U.S.A, 43-45. Psychol. Asn; Group Psychother. Asn. Rorschach study in predicting rapport. Address: 214 Medical Center Bldg, Eugene, Ore. 97401.

FISHER, DR. RHODA LEE, b. Chicago, Ill, Oct. 10, 24; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.Mu.Ed, De Paul, 46; M.A, Chicago, 47, Ph.D, 56. Psychologist, Elgin State Hosp, 48-50; Jewish Voc. Serv, 50-51; res. assoc. psychiat, med. col, Baylor, 58-60; private practice, Tex, 50-61; lectr. psychol, Syracuse, 61-64; RES. PSYCHOLOGIST, SYRACUSE PUB. SCHS, 64- Psychol. Asn; Soc. Res. Child Develop. Clinical psychiatric groups; physical expression of symtomatology; transmission of family themes; motivation; fantasy life and expression in behavior of normals. Publ: Stability of projective tests, Psychol. Monogr, 61; Body boundary & achievement behavior, J. Proj. Tech, 66; Mother's hostility & changes in child's classroom behavior, Perceptual & Motor Skills, 66. Address: 214 Brookford Rd, Syracuse, N.Y. 13224.

FISHER, DR. ROBERT M(OORE), b. Madison, Wis, June 9, 23; m. 61; c. 2. LAND ECONOMICS. B.A, Michigan, 45; M.B.A, Columbia, 48, Ford Found. fel, 56-57, Ph.D.(land econ), 58. Free lance writer & lectr, 50-58; economist, Fed. Reserve Bd, 58-61; staff economist, U.S. Senate Banking & Currency Cmt, 61-63; SR. ECONOMIST, FED. RESERVE BD, 63- Lectr, American Univ, 65- U.S.A.A.F, 41-45, 1st Lt. Meteorol. Soc. Urban land economics. Publ: Co-auth, Urban real estate, Holt, 54; auth, How about the weather? 58 & 20 years of public housing, 59, Harper. Address: 7004 Hillcrest Place, Chevy Chase, Md. 20115.

FISHER, DR. S(ARA) C(AROLYN), b. Bridgeport, Conn, Sept. 17, 89. PSYCHOLOGY. A.B, Lombard Col, 09; A.M, Illinois, 10; Ph.D.(psychol), Clark, 13. Instr. PSYCHOL, Wellesley Col, 13-14; asst, Clark, 14-15; Calif. State Nor. Sch, 15-19; from asst. prof. to assoc. prof, CALIFORNIA, LOS ANGELES, 19-57, EMER. ASSOC. PROF, 57- Psychologist, Los Angeles Juvenile Court, 21-29. AAAS; fel. Psychol. Asn. Perception; attitudes; history and systems. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

FISHER, DR. SEYMOUR, b. New York, N.Y, Nov. 4, 25; m. 59. PSYCHOLOGY. B.A, N.Y. Univ, 48; Ph.D.(psychol), North Carolina, 52. Clin. psychologist, Vet. Admin, 48-52; res. psychologist, Walter Reed Army Inst. Res, 52-58; chief spec. studies unit, psychopharmacol. serv. center, Nat. Inst. Ment. Health, 58-63; RES. PROF. PSYCHOL. & DIR. PSYCHOPHARMACOL. LAB, MED. CENTER, BOSTON, 63- AAAS; fel. Psychol. Asn; fel. Col. Neuropsychopharmacol. Psychotherapy; hypnosis; social influence; psychopharmacology. Publ: An investigation of alleged conditioning phenomena under hypnosis, J. Clin. & Exp. Hypnosis; auth, Role of expectancy in the performance of posthypnotic behavior & co-auth, Intertrial effects of immediate self-committal, J. Abnorm. & Soc. Psychol. Address: Psychopharmacology Lab, Boston University Medical Center, Boston, Mass. 02118.

FISHER, DR. STANLEY HERBERT, b. Brooklyn, N.Y, Sept. 14, 26; m. 50; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 50; M.S, City Col. New York, 51; Ed.D, Columbia, 57. Psychol. intern, N.Y. State Psychiat. Inst. & N.J. Diagnostic Center, 51; interviewer, State Employ. Serv, N.Y, 51-52, selective

placement counsr, 52-54; psychol. trainee, Vet. Admin. Hosp, Montrose, 54-57, voc. counseling psychologist, Northport, 57-60; rehab. consult, Am. Heart Asn, 60-65; ASST. PROF. rehab, Pittsburgh, 66-67; REHAB. RES, CONNECTICUT, 67- Consult, Off. Voc. Rehab, N.Y, 59-65; rehab. psychologist, Woodville State Hosp. & West. Pa. Hosp, 66-67; chmn. heart rehab. cmt, West. Pa. Regional Med. Prog, 67- U.S.A, 44-46. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn; Int. Soc. Cardiol; Heart Asn. Vocational rehabilitation and psychological adjustment of disabled; education and coordination of community resources to improve and initiate rehabilitation services and facilities; psychological, social and vocational factors in heart disease. Publ: Psychological factors and heart disease, Circulation, 1/63; Rehabilitation of the cardiac farmer, N.Y. State J. Med, 9/64; Rehabilitation of the cardiac homemaker, J. Rehab, 4/66. Address: 204 Scott Dr, Manchester, Conn. 06040.

FISHER, DR. VERNON E(ZRA), b. New York, N.Y, Feb. 22, 29; m. 53; c. 3. CLINICAL PSYCHOLOGY. B.A, Stanford, 51; M.S. Pa. State, 54, Ph.D. (psychol), 56. Clin. psychologist, Vet. Admin. Hosp, Minneapolis, Minn, 56-57, Marion, Ind, 57-64; asst. chief psychol, LINCOLN STATE HOSP, 64-65, acting chief, 65-67, CHIEF PSYCHOL, 67- Psychologist, Div. Rehab. Serv, 65- Psychol. Asn. Treatment for the neuropsychiatric patient; practicum training for clinical psychologists; evaluation and diagnosis of psychopathology by interview and projective and nonprojective tests. Address: 4821 Woodhaven Dr, Lincoln, Nebr. 68516.

FISHER, PROF. WALDO E(MANUEL), Indust. Rels, see 10th ed, Soc. & Behav. Vols, deceased 64.

FISHER, PROF. WALTER D(UMMER), b. Chicago, Ill, Sept. 17, 16; m. 48; c. 3. ECONOMICS. A.B, Harvard, 37; Ph.D.(econ), Chicago, 43. Instr. agr. econ, California, 46-48, asst. prof, 48-51; ECON, Kansas State, 51-54, assoc. prof, 54-57, prof, 57-67; PROF, NORTHWESTERN, 67- Soc. Sci. Res. Coun. faculty res. fel, 54-57; Guggenheim Mem. Found. res. fel, 60-61; Nat. Sci. Found. res. grant, 63-67. Dir, Nat. Bur. Econ. Res, 67- Consult, Pullman Trust & Savings Bank, 51, 53; Rand Corp, 58-62. U.S.A.A.F, 43-46. Econ. Asn; Statist. Asn; fel. Economet. Soc. Econometrics; mathematical economics; statistics. Publ: Clustering and aggregation in economics, Johns Hopkins, 68; Estimation in the linear decision model, Int. Econ. Rev; Simplification of economic models, Econometrica, 7/66. Address: Dept. of Economics, Northwestern University, Evanston, Ill. 60201.

FISHER, DR. W(ILLIAM) HALDER, b. Richmond, Va, Mar. 4, 14; m. 37; c. 3. ECONOMICS, STATISTICS. B.S, Richmond, 34; Bur. Econ. Res. fel, Virginia, 41-43, M.A, 43, Ph.D, 45. Res. economist, Fed. Reserve Bank, Richmond, Va, 43-46; asst. prof. econ. & bus. admin, Delaware, 46-52; bus. economist, Fed. Trade Cmn, 52-53; econ. consult, 53-60; res. economist, U.S. Chamber Commerce, 60-63; sr. res. economist, BATTELLE MEM. INST, 63-67, ASSOC. FEL. ECON, 67- Consult, Am. Psychiat. Asn, 47-49; State Hwy. Dept, Del, 48; dir, Inst. Interindust. Data, 66- Econ. Asn; Statist. Asn; Economet. Soc. Business Cycles and forecasting; antitrust and government regulation; marketing economics; business administration; consumer economics; input-output analysis. Address: Battelle Memorial Institute, Room 277 B, 505 King Ave, Columbus, Ohio 43201.

FISHLER, DR. KAROL, b. Krakow, Poland, Apr. 26, 20; nat. PSYCHOLOGY. B.A, Los Angeles State Col, 53, M.A, 54; U.S. Pub. Health Serv. fel, California, Los Angeles, 55-56, M.A, 58, Ph.D.(psychol), 59. Intern clin. psychol, Student Health Serv, California, Los Angeles, 54-55, psychol. dept, 55, outpatient clin, child div, 55-56; State Hosp, Camarillo, 56; Vet. Admin. Hosp, Sepulveda, 58-59; ment. hyg. clin, Vet. Admin. Center, Los Angeles, 59; CHIEF CLIN. PSYCHOLOGIST, CHILD DEVELOP. DIV, CHILDRENS HOSP, 59- Instr, Arizona State, 61-; seminars ment. retardation, Calif. State Col. Los Angeles, 61-; asst. clin. prof. pediat.(psychol), Southern California, 64- R.A.F, 43-48, Flight Sgt. Fel. Psychol. Asn; Asn. Ment. Deficiency. Mental retardation in children; predictability of mental functioning on the basis of infant developmental process; nonverbal learning; psychological aspects in children with metabolic disorders. Publ: Nonverbal learning, Childhood Ed, 2/65; Psychological correlates in galactosemia, Am. J. Ment. Deficiency, 7/66; Attitudes of medical students toward mental retardation, J. Med. Ed, 1/68. Address: 1625 S. Beverly Glen, Los Angeles, Calif. 90024.

FISHLER, STANLEY ADRIAN, Anthrop, see 10th ed, Soc. & Behav. Vols.

FISHLOW, DR. ALBERT, b. Philadelphia, Pa, Nov. 21, 35; m. 57; c. 2. ECONOMICS. B.A, Pennsylvania, 56; Ph.D.(Am. econ. hist), Harvard, 63. Asst. prof. ECON, CALIFORNIA, BERKELEY, 61-63, assoc. prof, 63-66, PROF, 66- Am. Econ. Asn; Econ. Hist. Asn; Royal Econ. Soc. Latin American economic development; American economic history. Publ: American railroads and the transformation of the antebellum economy, Harvard, 65; Productivity and technological change in the railroad sector, 1840-1910, In: Studies in income and wealth, Nat. Bur. Econ. Res, 66; Levels of nineteenth century American investment in education, J. Econ. Hist, 12/66. Address: Dept. of Economics, University of California, Berkeley, Calif. 94720.

FISHMAN, BETTY G(OLDSTEIN), b. New York, N.Y, May 18, 18; m. 41; c. 2. ECONOMICS, STATISTICS. B.A, N.Y. Univ, 38; M.A, 40; American Univ, 40-41. Economist & statistician, U.S. Govt, 40-47; instr. ECON, WEST VIRGINIA, 48-49, lectr, 57-68, ASST. PROF, 68-, res. assoc, regional res. inst, 65-68. U.S. Dept. Health, Ed. & Welfare coop. res. grant, 65-67. Independent researcher & writer, 49- AAAS; Econ. Asn; Statist. Asn; Pop. Asn; Economet. Soc. Economic consequences of internal migration; income distribution; national income. Publ: Co-auth, The American economy, Van Nostrand, 62 & Employment, unemployment and economic growth, Crowell, 68; auth, The economic effects of internal migration: an exploratory study, West Virginia Univ. Bur. Bus. Res, 68. Address: College of Commerce, West Virginia University, Morgantown, W.Va. 26506.

FISHMAN, PROF. JOSHUA A(RON), b. Philadelphia, Pa, July 18, 26; m. 51; c. 1. PSYCHOLOGY. B.S. & M.S, Pennsylvania, 48; Morris fel, Columbia, 50-51, Ph.D.(soc. psychol), 53. Ed. psychologist & sr. res. assoc, dept. res. & exp, Jewish Ed. Cmt, N.Y, 51-54; res. assoc. psychol, City Col. New York, 55-56, from lectr. to vis. prof, 55-58, res. assoc, Col. Entrance Exam. Bd, 55-56, asst. dir, 56-57, res. dir, 57-58; assoc. prof. psychol. & human rels, Pennsylvania, 58-60; prof. psychol. & dean grad. sch. ed, YESHIVA, 60-66, UNIV. RES. PROF. SOC. SCI, FERKAUF GRAD. SCH. HUMANITIES & SOC. SCI, 66- Res. fels, Center Adv. Study Behav. Sci, 63-64, summers, Soc. Sci. Res. Coun, 64 & 65. Consult, Ford Found, 66-67. Mem. cmt. socioling, Soc. Sci. Res. Coun, 64-; adv. cmt. & E.African surv, Center Appl. Ling, 66- Psychol. Asn; Sociol. Asn; Anthrop. Asn; Ling. Soc. Sociolinguistics; adjustment to social threat or stigma; specialist in language problems of developing nations; sociology of language choice, planning, maintenance and shift. Publ: Language loyalty in the United States, 66 & Readings in the sociology of language, 68, Mouton, The Hague; Language problems of developing nations, Wiley, 68. Address: Yeshiva University, 55 Fifth Ave, New York, N.Y. 10003.

FISHMAN, PROF. LEO, b. New York, N.Y, Feb. 16, 14; m; c. 2. ECONOMICS. A.B, N.Y. Univ, 37, A.M, 38, Ph.D, 45. Economist, War Prod. Bd, U.S. Dept. Commerce & War Assets Admin, 41-47; assoc. prof. econ, WEST VIRGINIA, 47-52, PROF. ECON. & FINANCE, 52- Ford Found. res. fel, 53-54, 61-62. Chmn, Coun. Econ. Adv. to Governor, W.Va; expert witness, Joint Econ. Cmt; Senate Banking & Currency Cmt; Select Cmt. Small Bus. AAAS; Econ. Asn; Regional Sci. Asn. Business cycles; government and business; money and banking. Publ: Ed. & co-auth, The American economy, Van Nostrand, 62; ed, Poverty amid affluence, Yale Univ, 66; co-auth, Employment, unemployment and economic growth, Crowell, 68. Address: College of Commerce, West Virginia University, Morgantown, W.Va. 26506.

FISHMAN, DR. SIDNEY, b. Union City, N.J, May 28, 19; m. 49; c. 2. PSYCHOLOGY. B.S, City Col. New York, 39; M.A, Columbia, 40, Ph.D.(psychol), 49. Personnel res. psychologist, U.S. War Dept, 46-47; res. psychologist, prosthetic devices study, N.Y. UNIV, 47-49, asst. proj. dir, 49-54, DIR. PROSTHETIC & ORTHOTIC RES. & ED, 55- Adj. prof, Fairleigh Dickinson, 55- Voc. consult, Soc. Security Admin, Wash, D.C, 62- Mem. cmt. prosthetic res. & develop, Nat. Res. Coun-Nat. Acad. Sci, 52-, cmt. prosthetics ed. & info, 55-58; chmn, local sch. bd. # 6, Manhattan, N.Y, 66-67. U.S.A, 41-46. AAAS; fel. Psychol. Asn. Interdisciplinary research and education in psychological, medical and biomechanical aspects of prosthetics and orthotics. Publ: Amputations, Chap. In: Psychological practices in the physically disabled, Columbia Univ, 62; ed, Upper extremity prosthetics research program, Artificial Limbs, 58; The geriatric amputee, Nat. Acad. Sci, 61. Address: 200 Cabrini Blvd, New York, N.Y. 10033.

FISHWICK, DR. MARSHALL W(ILLIAM), b. Roanoke, Va, July 5, 23; m. 46; c. 4. SOCIOLOGY. B.A, Virginia, 43; M.A, Wisconsin, 46; Ph.D, Yale, 49; cert, Int. People's Col, Denmark, 53. Asst. prof. Am. studies, Washington & Lee, 50-54, assoc. prof, 55-58, prof, 59-67; DIR, DEL. STATE ARTS CMT, 67- Fulbright lectr, Denmark, 59; Germany, 62; guest lectr, Oxford; Freie & Johannes Gutenberg Univs, Germany; Warsaw Univ, Poland; Rockefeller Found, Carnegie Found. & Glenn grants; summer teacher, Minnesota, Wyoming, Florida & Yale. U.S.N, 43-45, Lt. Sociol. Asn; Hist. Asn; Am. Studies Asn. American history; American culture, its configuration and regional differentiation; methodology of American society and pluralism. Publ: Sleeping Beauty: the South in the sixties; Virginia gentlemen: a study in continuity; Robert E. Lee: the last years. Address: Delaware State Arts Committee, 200 W. Ninth St, Wilmington, Del. 19801.

FISK, BRADLEY, JR, b. Boston, Mass, Mar. 3, 27; m. 67. GEOGRAPHY. A.B, Swarthmore, 48; M.A, Clark, 51; Michigan, 52. Prof. geog, High Teachers Training Col, Baghdad, Iraq, 50-51; INSTR. GEOG, HIST, PHOTOG, Park Sch, N.Y, 55-59; Nauset Regional High Sch, 59-62; CAPE COD COMMUNITY COL, 62- U.S.A, 52-54. AAAS; Asn. Am. Geog; Am. Geog. Soc; Coun. Geog. Ed; Acad. Polit. & Soc. Sci; Mid. East Inst; Royal African Soc; Royal Geog. Soc; Royal Cent. Asian Soc. Arab and Moslem world; arid Asia physiography. Publ: Wadi thar thar project, Mid. East J; Dujaila, Iraq's land settlement project, Econ. Geog. Address: Box 218, South Orleans, Mass. 02662.

FISK, DEAN McKEE, b. Alton, Ill, Feb. 4, 00; m. 31; c. 3. BUSINESS ECONOMICS. A.B, Oklahoma City Univ, 23; A.M, Southern California, 26; Ph.D, Yale, 36. Instr, Santa Ana Jr. Col, 25-35, dean, 26-35; prof. bus. ed. & head dept, Okla. State, 36-40; North Carolina, Greensboro, 40-44; chief bus. training div, cent. off, Vet. Admin, 43-45; editor bus. ed, McGraw-Hill Book Co, 45-48; PROF. BUS. ADMIN. & DEAN SCH. BUS, FRESNO STATE COL, 48- Adv. to dean faculty bus. admin, Karachi, 62, 64. Mem. Accrediting Cmn. Bus. Schs, 52- Nat. Asn. Coun. Bus. Schs. serv. award. Economics of consumption; preventive law; business education. Publ: Farm bookkeeping and accounting; Applied business law, 44, 50, 55, 60, 66; Introduction to business law, South-Western Pub, 57, revisions 62 & 67. Address: School of Business, Fresno State College, Fresno, Calif. 93726.

FISK, PROF. WINSTON M(ILLS), b. Modesto, Calif, May 4, 21; m. 56; c. 2. POLITICAL SCIENCE. A.B, California, 42, LL.B, 50; Ph.D, Claremont Grad. Sch, 58. Private practice, 51-53; PROF. GOVT, CLAREMONT MEN'S COL. & CLAREMONT GRAD. SCH, 53- American public law and administrative law; government regulation of business; legislative process. Address: 212 Pitzer Hall, Claremont Men's College, Claremont, Calif. 91711.

FISKE, DR. CLAUDE E(RNEST), JR, b. U.S; m. 46; c. 2. PSYCHOLOGY. Ph.D.(clin. psychol), California, Los Angeles, 53. Sr. clin. psychologist, Camarillo State Hosp, 51-53; asst. prof. psychiat, sch. med, California, Los Angeles, 53-59; CLIN. PSYCHOLOGIST, EDGEMONT PSYCHIAT. HOSP, 59- Consult, Los Angeles County Juvenile Hall, 59- U.S.A, 41-46, Maj. Psychol. Asn. Personality theory and development; development of thinking processes; psychosomatic disorders. Address: Muir Medical Center, 7080 Hollywood Blvd, Los Angeles, Calif. 90028.

FISKE, PROF. DONALD W(INSLOW), b. Lincoln, N.H, Aug. 27, 16; m. 38; c. 2. PSYCHOLOGY. A.B, Harvard, 37, A.M, 39; Ph.D, Michigan, 48. Instr. psychol, Cambridge Jr. Col, 39-41; Wellesley, 41; asst. proj. dir, Michigan, 46-48, instr. PSYCHOL, 48; res. assoc, CHICAGO, 48-49, 49-51, asst. prof, 51-53, assoc. prof, 53-60, PROF, 60- U.S.N, 42-46, Lt. Comdr.

AAAS; Psychol. Asn. Personality; measurements. Publ: Co-auth, Prediction of performance in clinical psychology & Functions of varied experience; Intra-individual response variability, Psychol. Bull. Address: Dept. of Psychology, University of Chicago, Chicago, Ill. 60637.

FISKE, MARJORIE, Social Psychol, see LOWENTHAL, MARJORIE FISKE.

FISS, DR. HARRY, b. Vienna, Austria, Apr. 15, 26; U.S. citizen, m. 62; c. 2. PSYCHOLOGY. B.A, Wash. Sq. Col, N.Y. Univ, 49; Nat. Insts. Health fel, 59, Ph.D.(psychol), N.Y. Univ, 61. Instr. psychiat. & staff psychologist, Albert Einstein Col. Med. 60-63; RES. ASST. PROF. PSYCHOL, RES. CENTER MENT. HEALTH, N.Y. UNIV, 63- Instr. Queens Col.(N.Y), 61-62. Founders Day award, 61. U.S.A, 44-46, Res, 49-53, 1st Lt. Psychol. Asn. Altered states of consciousness, particularly sleep and levels of awareness in the waking state; cognitive experience, especially dreaming, imagery and fantasy. Publ: Effects of subliminal stimulation on imagery and discrimination, Perceptual & Motor Skills, 17:31-44; Waking fantasies following interruption of two types of sleep, Arch. Gen. Psychiat, 14: 543-551; Effects of experimentally induced changes in alertness on response to subliminal stimulation, J. Personality, 34:577-595. Address: Research Center for Mental Health, New York University, 4 Washington Place, New York, N.Y. 10003.

FISZMAN, DR. JOSEPH R, b. Siedlce, Poland, Oct. 5, 21; nat; m. 51; c. 2. POLITICAL SCIENCE. Warsaw, Poland, 39; St. John's Univ, China, 46-47; fel, Emory, 55, M.A, 56; Ph.D.(polit. sci), Mich. State, 64. Journalist, Daily Express, 38-39; res. assoc, Vilno Sci. Inst, Lithuania, 39-40; liaison officer, UNRRA, 46-47; re-estab. officer, UNIRO, 47-50; asst, labor & indust. rels. center, Mich. State, 56-59, instr. polit. sci, 58-59; OREGON, 59-65, asst. prof, 65-66, ASSOC. PROF. POLIT. SCI. & ASSOC. DIR. INST. COMP. EXP. RES. ON BEHAV. SYSTS, 66- Lectr, Agnes Scott Col, 53-54; Eagleton Found. res. fel, Rutgers, 62; fel. journalism, Charles Univ, Prague, 65-66; Dept. Health, Ed. & Welfare coop. res. grant, 66; assoc. prof, Wayne State, 67- Consult. spec. cmt. slavery, UN, 54; off. int. labor, U.S. Dept. Labor, 56; Ore. State Bd. Ed, 64-66. Mem, Inter-Univ. Cmt. Travel Grants, 64-66. Polit. Sci. Asn; Indust. Rels. Res. Asn; Asn. Slavic Studies; Asn. Asian Studies; Asn. Adv. Slavic Studies. Relationship between ideology and political behavior; labor's role in political decision-making within business-oriented political systems; development of occupational group values in light of systems role expectations. Publ: The American political arena; appeal of Maoism in pre-industrial, semi-colonial political cultures, Polit. Sci. Quart; The development of administrative roles: the labor attaché program of the U.S. Foreign Service, Pub. Admin. Rev, 9/65. Address: 4270 Ferry St, Eugene, Ore. 97405.

FITCH, DR. DAVID J(AMES), b. Ames, Iowa, June 12, 28; m. 50; c. 5. PSYCHOLOGY. B.S, Iowa State Col, 51; Ph.D, Illinois, 58. Statistician & computer programmer, U.S. Dept. Agr, 55-59; res. psychologist, adj. gen. off, U.S. Dept. Army, 59-61, chief, comput. prog. & model develop. unit, 61-62; comput. classification sect, Peace Corps, 62-64; consult. selection postal supvr, U.S. Post Off. Dept, 64-65; assoc. prof. psychol, California Western, 65-67; RES. SCIENTIST & ADV. W.AFRICAN EXAM. COUN, AM. INST. RES, 67- U.S.A.A.F, 46-48. Psychol. Asn; Asn. Computing Mach. Social psychology of Russian life; cross cultural values; psychometrics; classification problems; computers in psychological research. Address: American Institutes for Research International, 135 N. Bellefield, Pittsburgh, Pa. 15213.

FITCH, DR. DAVID ROBNETT, b. Brookfield, Mo, Dec. 10, 21; m. 51; c. 3. ECONOMICS, FINANCE. B.A, Texas A&M, 42; M.S, Wisconsin, 48; Ph.D. (econ), Oklahoma, 56. Prof. finance, Texas A&M, 49-60; PROF. FINANCE & INS. & CHMN. DIV, NORTH TEXAS STATE, 60- Participant, workshop res. bus. finance, Tulane, 58 & Harvard, 64; bus. faculty res. tour, Sweden, 66. U.S.A, 42-47, Capt. Econ. Asn; Risk & Ins. Asn; Finance Asn; Real Estate & Urban Econ. Asn. Economics of offshore oil development; stock recapitalization. Address: 2719 Crestwood Place, Denton, Tex. 76201.

FITCH, DR. EDWIN M(EDBERY), b. Wakonda, S.Dak, June 10, 02; m. 35; c. 3. ECONOMICS. B.A, Yankton Col, 23; Rhodes scholar. & B.A, Oxford, 26; fel. & Ph.D.(econ), Wisconsin, 33. Assoc. prof. econ, South Dakota, 27-29; res. asst, Cmt. Govt. Statist. & Info. Serv, 33; statistician, Nat. Recovery Admin, 34, statist. asst. to fed. coordinator transportation & asst. dir. sect. labor rels, 34-36; chief statistician, R.R. Retirement Bd, 36-42; assoc. dir. div. transport personnel, Off. Defense Transportation, 42-44; dir. personnel rels, Air Transport Asn, 44-47; from indust. rels. adv. to ASST. TO GEN. MGR. ALASKA R.R, U.S. Dept. Interior, 47-67; DEPT. TRANSPORTATION, 67- Lectr, George Washington, 50-54. Labor relations; transportation; Alaskan economics. Publ: The Alaska Railroad, Praeger, 9/67; The government and bargaining on the Alaska Railroad, Monthly Rev, U.S. Dept. Labor; co-auth, Containerized freight on the Alaska Railroad, Nat. Defense Transportation J. Address: 1601 Longfellow St, McLean, Va. 22101.

FITCH, DR. LYLE C(RAIG), b. Nebr, May 22, 13; m. 37; c. 2. ECONOMICS, PUBLIC ADMINISTRATION. B.S, Chadron State Col, 35; A.M, Nebraska, 37; Ph.D, Columbia, 46. Mem. faculty econ, Columbia, 42-46, assoc. prof, 53-54; asst. prof. econ. soc. sci, Wesleyan, 46-50; chief staff finance study, Mayor's Cmt. Mgt. Surv, New York, 50-52, sr. mgt. consult, Off. Mayor, 54-57, first dep. city adminstr, 57-60, city adminstr, 60-61; PRES, INST. PUB. ADMIN, N.Y, 61- Spec. asst, Gov. of Conn, 49; mem. staff res. dir, Gov. Cmt. Employ, 50; consult. & res. dir, Drew Univ. Assocs, 52-53; consult, dept. treas, Commonwealth of P.R, 53-55, 61; Repub. of Venezuela, 58, 61; U.S. Dept. Commerce & Housing & Home Finance Agency, 61; Calcutta Metrop. Planning Orgn, 62. Mem. cmt. urban econ, Resources for Future, Inc. Econ. Asn; Soc. Pub. Admin; Tax Inst; Polit. Sci. Asn; Regional Sci. Asn; Int. Inst. Pub. Finance. Urban planning and administration; urban transportation; public finance and fiscal policy; regional economics and organization. Publ: Urban transportation and public policy, Chandler Pub, 64; Planning for jobs; Political and fiscal problems of metropolitan areas. Address: 121 Red Hill Rd, Princeton, N.J. 08540.

FITCH, DR. MARGARET E(RB), b. Chicago, Ill, June 14, 11; m. 40; c. 2. PSYCHOLOGY. A.B, Bucknell, 31; M.A, Cornell, 32, Ph.D.(exp. psychol), 36. Intern psychol, Letchworth Village, Thiells, N.Y, 37; staff asst. counseling, Psychol. Corp, 37-39, staff mem. indust. counseling, 39-42; res. asst, Pioneer Fund, Columbia, 38-39; instr. PSYCHOL, Adelphi Col, 43-44; El Dorado campus, Arkansas, 49-50; South State Col, 62-65; Warner Brown Sch. Nursing, El Dorado, 64-65; ASSOC. PROF. & HEAD DEPT, HENDRIX COL, 65- Participant, Nat. Sci. Found. Summer Insts. Psychol, Univ. Mich, 66 & 67. Psychol. Asn. Experimental, social and counseling psychology. Publ: The memorial forms of apprehension, Am. J. Psychol, 36. Address: Dept. of Psychology, Hendrix College, Conway, Ark. 72032.

FITCH, PROF. MILDRED L(ORING), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

FITE, PROF. GILBERT C(OURTLAND), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FITE, DR. MARY D(ELAFIELD), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

FITE, PROF. ROBERT C(ARL), Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

FITHIAN, DR. FLOYD J, Mod. Am. & Am. Diplomatic Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FITTING, DR. JAMES E, b. Detroit, Mich, Jan. 18, 39; m. 60; c. 4. ANTHROPOLOGY. B.A, Mich. State, 60; M.A, Michigan, 62, Ph.D.(anthrop), 64. Instr. anthrop, Wayne State, 63-64; CURATOR ARCHAEOL, MUS. ANTHROP. & ASST. PROF. ANTHROP, MICHIGAN, 64- U.S.A.R, 57-65. Fel. Anthrop. Asn; Soc. Am. Archaeol; Soc. Hist. Archaeol. Patterns in prehistoric cultural adaptation; cultural change; lithic technology. Publ: Late woodland cultures of Southern Michigan, 65, co-auth, The Paleo Indian occupation of the Holcombe Beach, 66 & Contributions to Michigan archaeology, 68, Anthrop. Papers, Mus. Anthrop, Univ. Michigan. Address: Museum of Anthropology, University of Michigan, Ann Arbor, Mich. 48104.

FITTON, EDITH M, Geog, see 10th ed, Soc. & Behav. Vols.

FITTS, DR. WILLIAM H(OWARD), b. Martin, Tenn, Oct. 24, 18; m. 43; c. 2. PSYCHOLOGY. B.S, Tennessee, 41; Ph.D.(clin. psychol), Vanderbilt, 54. Clin. psychol. intern, Vet. Admin. Hosp, NASHVILLE, TENN, 54-55; CHIEF CLIN. PSYCHOLOGIST, MENT. HEALTH CENTER, 55- Consult, Tenn. State Dept. Ment. Health, 55-; sch. nursing, Meharry Med. Col; Vet. Admin. U.S.A.A.F, 42-46. Psychol. Asn. Self-concept; personality; psychotherapy. Publ: Role of the self-concept in social perception; The experience of psychotherapy, Van Nostrand, 65; The Tennessee self concept scale, Coun. Recordings & Tests, Nashville, 65. Address: 4209 Sneed Ave, Nashville, Tenn. 37215.

FITZELLE, DR. GEORGE T(HORNTON), b. Oneonta, N.Y, Jan. 31, 24; m. 61; c. 2. DEVELOPMENTAL PSYCHOLOGY. B.A, Rochester, 47; M.A, Harvard, 48; Ph.D, Cornell, 52. Instr. CHILD DEVELOP, Cornell, 51-52; asst. prof, California, Los Angeles, 52-59; ASSOC. PROF, RHODE ISLAND, 59- Summer fel, California, Los Angeles, 57. U.S.A, 45-47. Psychol. Asn. Child development; psychophysiological disorders; developmental theory; gerontology. Publ: Strength of opinion as an indication of philosophy of life: relationship between strength of opinion and adjustment & Basic needs of a selected group of widows as revealed through projective questions, J. Am. Geriat. Soc; Personality factors and certain attitudes toward child rearing among parents of asthmatic children, Psychosom. Med. Address: Dept. of Child Development, University of Rhode Island, Kingston, R.I. 02881.

FITZGERALD, PROF. B(ERNARD) J(OSEPH), b. Colorado Springs, Colo, Mar. 14, 21; m. 46; c. 1. PSYCHOLOGY. A.B, Colo. Col, 49; U.S. Pub. Health scholar, Ohio State, 53-54, Ph.D.(psychol), 54. Staff psychologist, Vet. Admin. Hosp, 54-57; asst. dir. psychol. serv. & coordinator Nat. Inst. Ment. Health proj, Phila. State Hosp, 57-60; dir. psychol. serv, Wyo. State Hosp, 60-65; dir, Park County Counseling Serv, 65-67; PROF. PSYCHOL, WYOMING, 67- Nat. Inst. Ment. Health Proj. res. grant, 58- Consult, Wyo. Div. Voc. Rehab, 65-67. U.S.M.C, 39-46. Psychol. Asn. Personality theory; psychodiagnostic projective methods; rehabilitation and Milieu theory; management and social treatment of chronic psychosis and alcoholism. Publ: Some relationships among projective tests, interviews and sociometric measures of dependent behavior & co-auth, Comparison of some objective measures of expectancy, J. Abnorm. & Soc. Psychol; co-auth, Social rehabilitation of the chronic mental patient. Address: Dept. of Psychology, University of Wyoming, Laramie, Wyo. 82070.

FITZGERALD, DR. DENIS PATRICK, b. Halifax, N.S, Sept. 11, 34. GEOGRAPHY, SOCIOLOGY. B.A, Bristol, 57; M.A, Nebraska, 58; Toronto, 58-59; M.A, Minnesota, 62, Ph.D.(geog), 65. Asst. prof. GEOG, Saskatchewan, 62-65; Ottawa, 65-66, ASSOC. PROF, 66-67, CARLETON (CAN), 67- Can. Coun. fel, 66-67; Soc. Sci. Res. Coun. Can. fel, 67- Can. Army, 53-55, Lt. Asn. Am. Geog; Am. Geog. Soc; Can. Asn. Geog. Settlement and agricultural geography, especially of subarctic and arctic lands; sociological aspects of geography. Publ: Pioneer settlement in Canada, Univ. Toronto, 67. Address: Dept. of Geography, Carleton University, Ottawa 1, Ont, Can.

FITZGERALD, DR. DON C(ASOT), b. Draper, Utah, Sept. 18, 16; m. 48; c. 4. CLINICAL PSYCHOLOGY. A.B, Brigham Young, 41; M.A, Iowa, 42, U.S. Pub. Health Serv. fel, 47-48, Ph.D.(clin. psychol), 49. Psychol. counsr, Iowa, 46-47, 48-49; asst. prof. med. psychol, col. med, Nebraska, 49-55; chief psychologist, Lincoln State Hosp, 55-56; assoc. prof. psychiat, sch. med, Creighton, 56-63; psychol. consult, Pub. Schs, Iowa, 63-67; CONSULT. PSYCHOLOGIST, 67- Psychologist, State Bd. Control, Iowa, 48-49; chief Psychologist, Nebr. Psychiat. Inst, 49-55; consult. psychologist, 56-63. U.S.A.A.F, 42-46, Med.Admin.C, 43-46. Fel. AAAS; fel. Psychol. Asn. Human behavioral science as related to hereditary and ecological factors; personality development and evaluation; social perception and development. Publ: Co-auth, A study of the growth of the dynamic concept of knowledge,

Child Develop, Vol. 15, 44, Adolescent female estrogen levels and personality characteristics, AAAS, 12/61 & Reading, motivational and related changes among 463 elementary grade children during a six week summer school program for the culturally handicapped and educationally retarded, Proj. 1099, P.L. 89-10, Pub. Schs, Cedar Rapids, Iowa 7/66. Address: 2001 Grande Ave. S.E, Cedar Rapids, Iowa 52403.

FITZ-GERALD, DR. FRANCES L(EXIE), b. Mar. 28, 38; U.S. citizen. PSYCHOBIOLOGY. B.A, Wellesley Col, 60; M.A, McGill, 61, Ph.D.(psychol), 64. Asst. psychol, Harvard, 59; McGill, 60-61 & 63-64; Wellesley Col, 61; YERKES REGIONAL PRIMATE RES. CENTER, 61-63, res. assoc, 64-66, PSYCHOBIOLOGIST, 66- Res. consult, Georgian Clin, Alcoholic Rehab. Serv, 67- AAAS; Am. Psychol. Asn; Animal Behavior Soc; Can. Psychol. Asn; Int. Primatol. Soc. Comparative study of biological and behavioral effects of psychotropic drugs in man and the great apes, particularly alcohol addiction. Publ: Co-auth, Spontaneous hyperthermia in the gorilla, Folia Primatologia, 67; auth, Effects of d-amphetamine upon behavior of young chimpanzees reared under different conditions, Excerpta Media Found; Voluntary alcohol consumption in chimpanzees and orangutans, Quart. J. Studies Alcohol. Address: Yerkes Regional Primate Research Center, Atlanta, Ga. 30322.

FITZGERALD, DR. GERALD E(DWARD), b. Brooklyn, N.Y, Oct. 23, 20; m. 46. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Brooklyn Col, 45; M.P.A, City Col. New York, 56; Ph.D.(pub. admin), N.Y. Univ, 61. Asst, housing authority, City of New York, 49-56, jr. personnel exam, career & salary plan appeals bd, 56-57, asst. personnel exam, 57-59, personnel exam, 59, teacher, jr. high sch, Bd. Ed, 59-60; instr. POLIT. SCI, ST. JOHN'S (N.Y), 60-62, asst. prof, 62-65, assoc. prof, 65-68, PROF, 68-, chmn. dept, 64-67. Sig.C, U.S.A, 42-45. Soc. Pub. Admin; Pub. Personnel Asn; Asn. Latin Am. Studies. Zoning legislation; position classification and salary administration in the public service; municipal and state government; Latin American politics. Publ: The constitutions of Latin America, Regnery, 68. Address: Dept. of Political Science, St. John's University, Jamaica, N.Y. 11432.

FITZGERALD, PROF. J(AMES) ANDERSON, Finance, see 10th ed, Soc. & Behav. Vols, deceased 63.

FITZGERALD, PROF. JAMES L, b. Ilion, N.Y, Feb. 18, 91; m. 16; c. 1. FINANCE. A.B, Union Col, 15; A.M, Fordham, 24, Ph.D, 49; Columbia, 30-32. Mem, Cert. Pub. Acct. Firm, N.Y, 20-21; head, Leominster Dept. Commerce, Mass, 21-22; Bloomfield Dept. Commerce, N.J, 22-26; instr. acct, Manhattan Col, 26-27, prof. econ. & dean sch. bus, 27-61; PROF. ECON. & DIR. GRAD. SCH. BUS. ADMIN, DUQUESNE, 61- Vis. prof, City Col. New York, 40; prof. & ed. dir. Westchester County Chap, Am. Inst. Banking, 38-55, emer. ed. dir, 55-61. Econ. Asn; Acad. Polit. Sci; Finance Asn. Principles and methods of economic diagnostics. Address: Graduate School of Business Administration, Duquesne University, 600 Forbes Ave, Pittsburgh, Pa. 15219.

FITZGERALD, DR. LAURINE E(LISABETH), b. New London, Wis, Aug. 24, 30. PSYCHOLOGY. B.S, Northwestern, 52, M.A, 53; Ph.D, Mich. State, 59. Asst. to dean students, Kendall Col, 51-53; instr. Eng, dir. reading res. & head resident, Wis. State Col.(Whitewater), 53-55; area dir. counseling, Indiana, 55-57; asst. guid. & counseling, Mich. State, 57-58, instr. & counseling psychologist, 58-59; asst. prof. psychol. & ed. & assoc. dean students, Denver, 59-62; asst. prof, counseling psychologist, student counseling bur. & staff counsr. Carnegie Found. Proj. Minn. Plan for Continuing Ed. of Women, Univ. Minnesota, 62-63; PROF. HIGHER ED. & ASST. DEAN STUDENTS, MICH. STATE, 63- Instr, Northwestern, 52-53; vis. lectr, Oklahoma, 61; Wagner Found. res. fel, 63-64; Nat. Fedn. Bus. & Prfnl. Women's Clubs Forrest fel. grant, 66-67. Consult, Austin Col, 61; voc. consult. & expert witness, Soc. Security Disability Prog. Hearings & Appeals, 62- Hosmer award, Univ. Denver, 62. Psychol. Asn; Personnel & Guid. Asn; Col. Personnel Asn.(secy, 65-67); Asn. Counsr. Ed. & Supv; Asn. Higher Ed; Nat. Asn. Women Deans & Counsr; Nat. Ed. Asn. Perception and role studies of personnel functions in higher education; higher education role studies for women. Publ: Faculty perceptions of student personnel functions, J. Col. Student Personnel, 62; co-auth, Orientation programs: foundation and framework, Col. & Univ, 63; auth, Counseling and guidance for women: a selected annotated bibliography, 1962-64, J. Nat. Asn. Women Deans & Counsr, 65. Address: 155 Student Services Bldg, Michigan State University, East Lansing, Mich. 48823.

FITZGERALD, DEAN LLOYD EDWARD, Finance, see 10th ed, Soc. & Behav. Vols.

FITZGERALD, DR. LYLE, Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

FITZGERALD, MARK J(AMES), b. Olean, N.Y, May 28, 06. ECONOMICS, INDUSTRIAL RELATIONS. A.B, Notre Dame, 28; M.B.A, Harvard, 31; Holy Cross Col, 36-40; Ph.D.(indust. rels, polit. sci), Chicago, 50. Instr. ECON, NOTRE DAME, 40-45, asst. prof, 45-50, assoc. prof, 50-56, PROF, 56-, DIR. INDUST. RELS, 53- Mem. panel, War Labor Bd, 44-45; Fed. Mediation and Conciliation Serv, 54- Econ. Asn; Indust. Rels. Res. Asn. British productivity and industrial relations; British industries and unions; European coal and steel communities. Publ: Britain views our industrial relations; The common market's labor programs, Univ. Notre Dame, 66; International labor organization, Vital Speeches. Address: Dept. of Economics, University of Notre Dame, Notre Dame, Ind. 46556.

FITZGERALD, DR. ROBERT D, b. Huron, S.Dak, Apr. 30, 35; m; c. 3. PSYCHOLOGY. B.A. & M.A, South Dakota, 59; Nat. Inst. Ment. Health fel, Indiana, 61-62, Ph.D.(psychol), 62. Res. asst. PSYCHOL, South Dakota, 58-59; asst, Indiana, 59-61, teaching assoc, 61-62; instr, MED. SCH, OREGON, 62-64, asst. prof, 64-66, ASSOC. PROF, 66- Nat. Inst. Ment. Health fel, 62-63. AAAS; Psychol. Asn; Psychonomic Soc. Classical conditioning of autonomic nervous system responses; aversive learning; learning theory; psychophysiology. Publ: Effects of partial reinforcement with acid on the classically conditioned salivary response in dogs, 56: 1056-1060, co-auth, Effects of partial reinforcement followed by continuous reinforcement on classically conditioned heart-rate in the dog, 62: 483-486 & Resistance to extinction of a runway response following noncontingent partial and zero percent reinforcement in the goal box, 68, J. Comp. Physiol. Psychol. Address: Dept. of Psychology, University of Oregon Medical School, 3181 S.W. Sam Jackson Park Rd, Portland, Ore. 97201.

FITZGERALD, DR. SHERMAN KIRKHAM, b. Draper, Utah, Feb. 21, 21; m. 47; c. 4. SOCIOLOGY. B.S, Brigham Young, 48, M.S, 51; Ph.D.(sociol), Cornell, 52. Instr. sociol, Maryland, 52-53, asst. prof, 53-55, 57-59, tech. adv. land use res. in Brit. Guiana & B.W.I, 55-57; ASSOC. PROF. SOCIOL, Arizona State, 59-62; Texas A&M, 62-63; BRIGHAM YOUNG, 63- Grants, Cornell, summer 52, Univ. Maryland Grad. Res. Coun, summer, 58, Texas A.&M. Univ. to Groves Conf, 63, Bur. Community Develop. & Nat. Training Lab. U.S.N, 44-46. Sociol. Asn; Rural Sociol. Soc; Nat. Coun. Family Rels. Community structure and processes; regional ecological planning areas; evaluation of action programs; population characteristics; family structure; college dating patterns. Publ: Population and land aspects of British Guiana, Dept. Land Develop, Brit. Guiana, 57; co-auth, Index construction using factor analysis of selected variables from S-44 rural sociological research project, Texas A&M Univ. Dept. Agr. Econ, 64; auth, Multi-county regions in Utah, Univ. Utah, 67. Address: Dept. of Sociology, Brigham Young University, Provo, Utah 84601.

FITZGERALD, PROF. WILLIAM F(RANCIS), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

FITZGIBBON, PROF. RUSSELL H, b. Columbus, Ind, June 29, 02; m. 29; c. 2. POLITICAL SCIENCE. A.B, Hanover Col, 24, LL.D, 52; A.M, Indiana, 28; Ph.D, Wisconsin, 33. From instr. to prof. hist. & polit. sci, Hanover Col, 24-36; from asst. prof. to PROF. POLIT. SCI, CALIFORNIA, Los Angeles, 36-64, SANTA BARBARA, 64- Mem. staff, Off. Inter-Am. Affairs, 44-45. Polit. Sci. Asn. Latin-American governments, politics and international relations. Publ: Latin America, past and present; Constitutions of the Americas; Uruguay: portrait of a democracy. Address: Dept. of Political science, University of California, Santa Barbara, Calif. 93106.

FITZGIBBON, DR. WALTER CHARLES, b. Cleveland, Ohio, May 6, 24; m. 48; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Kent State, 54, M.A, 55; Ed.D.(ed. psychol), Western Reserve, 62. Teacher mentally retarded, Bd. Ed, Ohio, 54-61; asst. prof. psychol. & spec. ed, Central Michigan, 61-64; ASSOC. PROF. PSYCHOL. & ED. COORDINATOR PROG. MENT. RETARDATES, WESTERN CAROLINA, 64- Prepared fed. scholar. & traineeship grants in ment. retardation, 65, 68-69 & grants for col. prog. for visually impaired students for N.C. Cmn. Blind, 67 & 68. Mem, Governor's Cmn. Voc. Rehab. N.C, 67- Eng.C, U.S.A, 43-46, Res, 54-61, Lt. Asn. Ment. Deficiency; Coun. Except. Children. Learning and mental retardation; university program development for professional personnel for exceptional children; college education for blind students. Publ: Co-auth, Mental retardation; appraisal, education, rehabilitation, Aldine, 67 & Exceptional children: a book of readings, Holt, (in press); auth, A report of a college preparatory program for visually impaired students, Western Carolina Univ, (in press). Address: School of Education & Psychology, Western Carolina University, Cullowhee, N.C. 28723.

FITZHUGH, DR. KATHLEEN B(ELL), b. Kansas City, Mo, Mar. 13, 29; m. 54. PSYCHOLOGY. B.A, Univ. Kansas City, 51, fel, 51-52, M.A, 54; Ph.D.(clin. psychol), Purdue, 58. Psychometrist psychol, State Hosp, Mo, 52-53, psychologist, 53-54; asst, div. ed. reference, Purdue, 54-56; trainee clin. psychol, Vet. Admin. Hosp, Marion, Ind, 56-57, Vet. Admin. Hosp. & Ment. Hyg. Clin, Indianapolis, 57-58; clin. psychologist, NEW CASTLE STATE HOSP, 58-60, res. psychologist, 60-63, DIR. RES, 63-; ASST. PROF. PSYCHOL, MED. SCH, INDIANA, 66- AAAS; Psychol. Asn; Asn. Ment. Deficiency; Acad. Ment. Retardation. Neuropsychology; learning deficits; age and abilities; behavior modification. Publ: Perceptual learning and understanding skills programmed workbooks, Allied Ed. Coun, 66; Psychological deficits in relation to acuteness of brain dysfunction, J. Consult. Psychol; Effects of early and later onset of cerebral dysfunction, Perceptual & Motor Skills, 65. Address: Riley Hospital, Indiana University Medical Center, Indianapolis, Ind. 46207.

FITZPATRICK, DR. E(UGENE) D(OUGLAS), b. St. Joseph, Mo, Dec. 25, 18; m. 44; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Missouri, 41; M.A, Kansas City, 48; Ed.D, Colo. State Col. Ed, 50. Prin, high sch, Mo, 41; head dept. sci, high sch, Miss, 43; Mo, 44; instr. psychol, Colo. State Col. Ed, 49; asst. prof. ed. psychol, Southern Illinois, 50, assoc. prof. ed. statist, 55-65, chmn. dept. guid, 57-65, spec. grad. adv. res. design, 63-65; DIR. COMPUT. SERV, ILLINOIS STATE, 65- Med.Dept, 42-43, Sgt. Psychol. Asn; Coun. Measurement in Ed; Asn. Comput. Mach; Asn. Ed. Data Systs. Effective methods of computer instruction; extending use of computers to analyze research data in new and meaningful ways. Publ: Statistical processes in education, In: Educational psychology; Probability subroutines for computers, 65 & Inferential statistics utility tables, 66, Univ. Press. Address: 7B Striegel Court, Normal, Ill. 61761.

FITZPATRICK, DR. GLADYS EVE, b. New York, N.Y, Feb. 17, 12. EXPERIMENTAL & CLINICAL PSYCHOLOGY. B.A, Hunter Col, 53; M.A, City Col. New York, 57; Ph.D.(psychol), Fordham, 64. Admin. dir, Astoria Med. Group, 51-60; intern psychologist, Bellevue Psychiat. Hosp, 60-61; asst. clin. psychol, Henry Ittleson Center Child Res, 61-62; Creedmoor State Hosp, 62, sr. psychologist, children's unit, 62; staff psychologist, develop. eval. clin, Albert Einstein Col. Med, 62-65; CHIEF PSYCHOLOGIST, DEPT. PSYCHIAT, BRONX-LEBANON HOSP. CENTER, 65- Instr, Duchesne Residence Sch, N.Y, 65-66. Consult, Teamsters Comprehensive Care Prog, Montefiore Hosp. & PLAN Headstart Prog, Bronx, 66- Psychol. Asn; Int. Coun. Psychol. Emotional aspects of pregnancy; early detection of mental retardation in preschool children; relation of macular pigmentation to visual sensitivity. Address: 530 E. 84th St, New York, N.Y. 10028.

FITZPATRICK, J(OSEPH) P(ATRICK), S.J, b. Bayonne, N.J, Feb. 22, 13. SOCIOLOGY. A.B, Woodstock Col.(Md), 36, S.T.L, 44; M.A, Fordham, 41; Ph.D, Harvard, 49. Dir, Xavier Labor Sch, New York, 38-40; PROF. SOCIOL, FORDHAM, 49-, chmn. dept, 61-64. Summer lectr, Inst. Intercultural Commun, Ponce, P.R, 57-67, Center Intercultural Document, Cuernavaca, Mex, 61-67. Consult. sociologist. Chaplain, Coast Guard & Marine Hosps, 43-44. Sociol. Asn; Pop. Asn. Industrial sociology; Puerto Rican migration; scope and method of sociology; community and cultural factors in juvenile delinquency. Publ: Co-auth, Delinquent behavior, a redefinition of the problem, Random, 64; auth, Intermarriage of Puerto Ricans in New York City, Am. J. Sociol, 1/66; The importance of 'community' in the process of immigrant assimilation, Int. Migration Rev, fall 66. Address: Dept. of Sociology, Fordham University, Bronx, N.Y. 10458.

FITZPATRICK, PROF. PAUL J(OSEPH), b. Tamaqua, Pa, Sept. 9, 94. ECONOMICS, ACCOUNTING. A.B, Catholic Univ, 16, Ph.D, 31; M.C.S, Franklin, 28; A.M, George Washington, 29. Bank teller & auditor, Nat. Bank, Pa, 16-17; cost acct, G.W. Hawk Co, Inc, 17-19, mill supt, 20; purchasing agent, Taubel, Scott, Kitzmiller Co, 21-22; instr. econ, CATHOLIC UNIV, 22-36, asst. prof, 36-40, assoc. prof, 40-59, prof, 59-60, head dept, 37-59, polit, 45-52, secy. faculty grad. sch. soc. sci, 37-43, dir. grad. work in econ, 37-59, chmn. div. acct, 38-57, div. bus. ed, 38-51, chmn. dept. econ, summer sessions, 37-57, dean sch. soc. sci, 43-52, EMER. PROF. ECON, UNIV, 60-Lectr, Villanova, 60-62. Mem, James Buchanan Mem. Found, 61- Econ. Asn; Statist. Asn; Am. Acct. Asn. Business and industrial failures; financial ratios; statistical methods. Publ: Comparison of ratios of unsuccessful industrial companies with those of successful companies; Problems of business failure; Bibliography of economic books and pamphlets by Catholic authors, 1891-1941. Address: 617 College Ave, Lancaster, Pa. 17603.

FITZPATRICK, DR. ROBERT, b. Cincinnati, Ohio, Aug. 26, 24; m. 52; c. 3. PSYCHOLOGY. B.S, Pittsburgh, 47, M.S, 48, Ph.D, 53. Asst. psychol. & lectr. psychol. & math, Pittsburgh, 47; proj. dir, Am. Inst. Res, 48-54, prog. dir, 55-59; supvr. human factors unit, Boeing Co, 59-61; tech. asst. to mgt, Syst. Develop. Corp, 61, group head, 61-63; mgr. psychol. dept, humetrics div, Thiokol Chem. Co, 63-64; group engr, Douglas Aircraft Co, 64; PROG. DIR. AM. INSTS. RES, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. U.S.M.C, 43-46, 51-53, Capt. Psychol. Asn; Biomet. Soc; Human Factors Soc; Psychomet. Soc; Soc. Appl. Anthrop; Ed. Res. Asn. Proficiency measurement; program evaluation; psychometrics. Publ: Training device vs. direct task training: the distribution and sequence of practice sessions & co-auth, Technique for measuring perceptual interference in a scanning task, Am. Psychologist; Detection of individual differences in accident susceptibility, Biomet. Address: 130 S. Homewood Ave, Pittsburgh, Pa. 15208.

FITZSIMONS, DR. RUTH MARIE, b. Pawtucket, R.I. SPEECH. B.E, R.I. Col. Ed, 40; Ed.M, Boston, 51, Ed.D, 55. Teacher, Warwick Sch. Dept, 40-42, teacher & prin, 42-50, head speech & hearing & clinician, 50-68; CONSULT. SPEECH & HEARING THER, R.I. STATE DEPT. ED, 68- Summers, lectr. & clin. dir, Boston, 56, 58-59, lectr, Maine, 66. Mem. cmt. nat. study of pub. sch. speech & hearing servs, speech & hearing clin, Purdue, 59-60. Speech & Hearing Asn; Psychol. Asn; Acad. Psychother; Acad. Relig. & Ment. Health; Soc. Res. Child Develop. Speech, language and hearing therapy; articulation and language problems; psychodynamics of speech problems. Psychodynamics of speech problems. Publ: Co-auth, Stuttering and personality dynamics & Let's play hide and seek; Christopher listens, Denison, 67. Address: Rhode Island State Dept. of Education, Roger Williams Bldg, Providence, R.I. 02908.

FIUCZYNSKI, DR. HANS W(OLFGANG), b. Berlin, Germany, Apr. 28, 33; m. 60. ECONOMICS, BUSINESS ADMINISTRATION. Tech. Univ. Berlin, 55, M.B.A, 57, Ph.D, 60; German Acad. Exchange Serv. fel, Columbia, 55, M.S, 56. Asst. Res. Inst. Branded Goods, Germany, 56-60; mkt. res. supvr, M&M's Candies Div, Food Mfrs, Inc, 60-62, mkt. res. mgr, 62-65, brands mgr, M&M Candies div, MARS INC, 66-67, BRANDS DIR, M&M/MARS DIV, 67- Econ. Asn; Mkt. Asn. Market economics; methods of investigation and experimentation with reference to marketing. Publ: Product and price policies of manufactures of branded goods; Distribution and sales volume of packaged consumer goods & Comments on trade margin policies, Der Markenartikel. Address: M&M/Mars Division, Mars Inc, High St, Hackettstown, N.J. 07840.

FIXLER, DR. L. DONALD, b. Chicago, Ill, Sept. 18, 27. ECONOMICS. B.A, N.Y. Univ, 52, fel, 53-54, Ph.D, 60; M.A, Southern Methodist, 53. Instr. ECON, Am. Int. Col, 54-57, asst. prof, 57-60; Duquesne, 60-61, ASSOC. PROF, 61-63; Hawaii, 63-65; LOYOLA (ILL), 67- Summers, Ford Found. fel, Southern Methodist, 58, 61. U.S.N, 46. Econ. Asn. Meaning of the market in antitrust litigation. Publ: Area price discrimination: a workable concept of injury to competition, Univ. Pittsburgh Law Rev; Interlocking directorates and railroad mergers, Quart. Rev. Econ. & Bus, Spring 65; Price discrimination in homogenous oligopoly, Antitrust Law & Econ. Rev, 7-8/67. Address: Dept. of Economics, Loyola University, 820 N. Michigan Ave, Chicago, Ill. 60611.

FJELD, PROF. HARRIETT A(NDERSON), b. Hedrick, Iowa, Feb. 22, 97; m. 25; c. 1. PSYCHOLOGY. A.B, Illinois, 20, M.A, 22; Ph.D.(psychol), Columbia, 34. Asst. psychol, Illinois, 20-22, 23-25; prof. ed, Buena Vista Col, 22-23; asst, Columbia, 31-32, 34-35, 36; res. psychologist, Arthur Sunshine Home & Nursery Sch. for Blind, N.J, 36-38; instr. PSYCHOL, Hunter Col, 42-43; lectr, DOUGLASS COL, RUTGERS, 43-47, asst. prof, 47-55, assoc. prof, 55-57, EMER. PROF, 57- Mem, Am. Found. for Blind. Fel. Psychol. Asn; Int. Coun. Psychol.(v.pres, 46-48). Personal adjustment; human relations; test. Publ: Limits of learning ability in rhesus monkeys, Genetic Psychol. Monogr; Comparison of major groups of college women on the Kuder preference record-personality, Ed. & Psychol. Measurements. Address: 10225 Audrey Dr, Sun City, Ariz. 85351.

FJELD, DR. STANTON P, b. Chicago, Ill, Feb. 19, 27; m. 55; c. 4. PSYCHOLOGY. B.A, Minnesota, 50, M.A, 54; Ph.D, Missouri, 61. Psychologist, Fergus Falls State Hosp, Minn, 51-56; asst. psychol, Missouri, 56-57, 59-60, instr, 57-58, asst. psychologist, ment. hyg. clin, 58-59, res. assoc. psychol, univ, 60-61; instr, Bowling Green State, 61-62; ASST. PROF. MED. PSYCHOL, SCH. MED, WASHINGTON (ST. LOUIS), 62- U.S.A, 44-47. Psychol. Asn. Behavior and thought of people with psychological problems; interaction and communication in small groups. Publ: Behavioral census of a state hospital population, Psychol. Monogr; Social conceptual processes and change in students undergoing psychotherapy, Psychol. Rep; Clinical, electrical and psychological tests and the diagnosis of organic brain disorder, J. Nervous & Ment. Disease, 66. Address: Dept of Medical Psychology, Washington University, St. Louis, Mo. 63104.

FJELSTAD, PROF. RALPH SYLVESTER, b. Emmons, Minn, Nov. 12, 15; m. 41; c. 3. POLITICAL SCIENCE. A.B, Concordia Col.(Moorhead, Minn), 37; Minnesota, 38-39; Norman Wait Harris fel, Northwestern 39, 41, Ph.D, 48. Dir. personnel, U.S. Dept. War, Ill. Ord. Plant, Carbondale, 41-43; asst. prof. GOVT. ON CONGDON FOUND, CARLETON COL, 48-53, assoc. prof, 53-56, PROF, 56- Faculty fel, Fund Adv. Ed, 52-53; Hill Family Found.grant, 61. Mem. Governor's Tax Study Cmn, Minn, 62- U.S.A.F, 43-46. Polit. Sci. Asn; Soc. Pub. Admin. American political institutions. Address: Dept. of Government & International Relations, Carleton College, Northfield, Minn. 55057.

FLACK, PROF. MICHAEL J(ULIUS), b. Poland, Sept. 12, 20; nat. INTERNATIONAL AFFAIRS. B.A, Iowa, 48, M.A, 49; M.A.L.D, Fletcher Sch. Law & Diplomacy, 51, Ph.D.(int. rels), 53. Asst. prof. int. rels, Oregon, 51-52; polit. sci, Vassar Col, 54-56; consult, Ford Found, 56; Am. Coun. Ed, 57; assoc. prof. INT. & INTERCULTURAL AFFAIRS, PITTSBURGH, 58-67, PROF, 67-, DIR. DEPT. INT. AFFAIRS, GRAD. SCH. PUB. & INT. AFFAIRS, 58-63, 67- Lectr, Int. Center Tech. Exchanges, France, spring 1967. Mem, White House Conf. Int. Cooperation, 66. Polit. Sci. Asn; Soc. Pub. Admin; fel. African Studies Asn. International politics; intercultural relations; Soviet and East European Studies; African politics. Publ: Role of culture in international operations, Univ. Pittsburgh, 67; World's declarations of independence, 68; Cultural polities in discourse, In: Probleme der Kommunikation Zwischen Industrie—und Entwicklungslandern, Berlin, 67. Address: 5540 Fifth Ave, Pittsburgh, Pa. 15232.

FLACKS, DR. RICHARD, b. Brooklyn, N.Y, Apr. 26, 38; m. 59; c. 1. SOCIAL PSYCHOLOGY. A.B, Brooklyn Col, 58; univ. fel, Michigan, 59-60, Nat. Sci. Found. fel, 61-62, Ph.D.(soc. psychol), 63. Asst. psychol, Michigan, 58-59, res. asst, 60-62, res. assoc, center res. conflict resolution, 62-64, lectr, univ, 63-64; ASST. PROF. SOCIOL, CHICAGO, 64- Sociol. Asn; Psychol. Asn; Soc. Psychol. Study Soc. Issues; Soc. Exp. Soc. Psychol. Political psychology; attitude formation and change; public opinion processes; student values; social movements; sources of political radicalism; international behavior. Publ: Co-auth, Persistence and change, Wiley, 67; auth, On the use of participatory democracy, Dissent, 2/67 & The liberated generation, J. Soc. Issues, 7/67. Address: 6025 S. Kimbark, Chicago, Ill. 60637.

FLAGG, PROF. DENIS A(NTHONY), b. Santa Monica, Calif, Sept. 24, 20; m. 50; c. 3. ECONOMICS. A.B, Harvard, 42; Ph.D.(econ), California, Berkeley, 54. Asst, California, 49-52, assoc. ECON, 54-55; asst. prof, SAN DIEGO STATE COL, 55-61, assoc. prof, 61-65, PROF, 65- U.S.A, 43-46, Capt. Econ. Asn; Statist. Asn; Asn. Adv. Slavic Studies; Asn. Study Soviet-Type Econ; Asn. Comp. Econ. Quantitative economics; economic systems; Soviet economy. Address: 5449 Baja Dr, San Diego, Calif. 92115.

FLAHERTY, SISTER M. RITA, R.S.M, b. Pittsburgh, Pa, Mar. 22, 23. PSYCHOLOGY. B.A, Mt. Mercy Col.(Pa), 52; M.A, Fordham, 57, Ph.D.(exp. psychol), 59. Asst, Fordham, 55-57; ASST. PROF. PSYCHOL. & CHMN. DEPT, MT. MERCY COL.(PA), 58-, DIR. PERSONNEL SERV, 60- Nat. Sci. Found. summer fel, California, Berkeley, 65. Psychol. Asn; Personnel & Guid. Asn. Experimental psychology on human vision; personality testing of college students; effect of personality on visual perception. Publ: Co-auth, Correlation of CPI traits with academic achievement, Ed. & Psychol. Measurement, 64; auth, Some implications of Piaget's theory for an undergraduate course in experimental psychology, J. Psychol, 65; Personality traits of college leaders, J. Ed. Res, 4/67. Address: Dept. of Psychology, Mt. Mercy College, Pittsburgh, Pa. 15213.

FLAMER, DR. GEORGE B, b. Fargo, N.Dak, July 6, 37; m. 59; c. 3. CHILD PSYCHOLOGY. B.S, N.Dak. State, 61; M.A, Minnesota, 64, Ph.D.(child psychol), 65. Asst. prof. psychol, George Peabody Col, 65-67; RES. PSYCHOLOGIST, CALIF. TEST BUR, McGRAW-HILL BOOK CO, 67- Psychol. Asn; Soc. Res. Child Develop; Ed. Res. Asn. Psycholinguistics; cognitive development. Publ: Co-auth, Association value of responses in the paired-associate learning of children and adults, J. Verbal Learning & Verbal Behav, 64. Address: California Test Bureau, Del Monte Research Park, Monterey, Calif. 93940.

FLAMMANG, DR. ROBERT A, b. Orleans, Nebr, Sept. 29, 34; m. 64; c. 3. ECONOMICS. B.S, Nebraska, 56; M.A, Iowa, 59, Ph.D.(econ), 62. Instr. ECON, Iowa, 57-62; asst. prof, LA. STATE, 62-65, ASSOC. PROF, 65-, univ. found. faculty res. grants, 65-66, 67-68. Pan Am. Union fel, summer 63. Econ. Asn. Economic development and integration, particularly in Latin America. Publ: Regional integration, In: Economy of Latin America, Univ. Iowa, 66; Louisiana and the world economy, In: Essays on the Louisiana economy, La. State Univ, 68. Address: Dept. of Economics, Louisiana State University, Baton Rouge, La. 70803.

FLANAGAN, DR. JOHN C(LEMANS), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

FLANDERS, PROF. DWIGHT P(RESCOTT), b. Rockford, Ill, Mar. 14, 09; m. 39; c. 2. ECONOMICS. A.B, Illinois, 31, A.M, 37; Beloit Col, 33-34; Ph.D, Yale, 39. Asst. prof. ECON, Maxwell Grad. Sch, Syracuse, 39-42; assoc. prof, ILLINOIS, 46-53, PROF, 53-, CHMN. MASTER'S SEMINAR, 47-Consult. pub. housing, Onondaga County Planning Cmn, 40-42; consult, Div. Highways, State of Ill, 59-65. Assoc. ed, Current Econ. Comment, 48-54. Instr. econ. & head dept, U.S. Mil. Acad, U.S.A, 42-46, Lt. Col. Econ. Asn; Economet. Soc. General economic theory; interrelations of the social sci-

ences. Publ: Collection of rural real property taxes in Illinois; Science and social science; Accountancy, systematized learning, and economics, Acct. Rev, 10/61. Address: Dept. of Economics, University of Illinois, Urbana, Ill. 61801.

FLANDERS, DR. M(IRIAM) JUNE, b. New York, N.Y, June 17, 27; m. 46; c. 2. ECONOMICS. M.A, Chicago, 52; Ph.D, California, 60. Assoc. ECON, California, 59-60; asst. prof, PURDUE, 60-65, ASSOC. PROF, 65- Consult, U.S. Agency Int. Develop, 67. Econ. Asn; International trade and development; international monetary problems. Publ: The effects of devaluation on exports: a case study. United Kingdom 1949-1954, Bull, Inst. Statist, Oxford Univ, 63; Prebisch on protectionism: an evaluation, Econ. J, 6/64; Measuring protectionism and predicting trade diversion, J. Polit. Econ, 4/65. Address: Dept. of Economics, Purdue University, Lafayette, Ind. 47907.

FLANDERS, PROF. NED A(LLEN), b. Paso Robles, Calif, Feb. 21, 18; m. 43; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, California, 40; B.S, Ore. State Col, 44; M.A, Chicago, 47, Ph.D, 49. Asst. prof. ed. psychol, Minnesota, 49-54, assoc. prof, 54-61; PROF. ED, MICHIGAN, 61- U.S. Off. Ed. res. grants; Fulbright res. scholar, New Zealand, 57. Prog. consult, Mich-Ohio Regional Ed. Lab, 67- Mem. at large. exec. cmt, Am. Ed. Res. Asn, 66-69. Sig.C, 42-46, Lt. Psychol. Asn. Group dynamics in eudcation; analysis of communication in the classroom; social psychology of small groups; classroom interaction analysis. Publ: Teaching with groups; Group compliance to dominative teacher influence, Human Rels; Analyzing teacher behavior, Ed. Leadership. Address: School of Education, University of Michigan, Ann Arbor, Mich. 48104.

FLANDERS, DR. RALPH E, b. Barnet, Vt, Sept. 28, 80; m. 11; c. 3. POLITICAL SCIENCE. Hon. M.A, Dartmouth Col, 32, Stevens Inst, 32; hon. D.Sc, Middlebury Col, 34, Rose Polytech. Inst, 34, Vermont, 35, Norwich, 39, Northwestern, 40; LL.D, Polytech. Inst. Brooklyn, 34, Northeastern, 42, Clarkson Tech, 49, Marlboro Col, 49, Harvard, 50, Dartmouth Col, 51, Rhode Island, 51, Allegheny Col, 53, Rollins Col, 54. Pres, Jones & Lamson Mach. Co, 33-46; U.S. Senator, Vt, 46-58; RETIRED. Godkin lectr, Harvard, 49; vis. distinguished lectr, Massachusetts, 60-61. Adminstr, Off. Price Mobilization, 41; mem, Econ. Stabilization Bd, 42-44; World Acad. Arts & Sci. Worcester-Warner medal, 38; medal, Franklin Inst, 38. Publ: The American century; Letter to a generation; Senator from Vermont. Address: P.O. Box 479, Springfield, Vt. 05156.

FLANIGAN, DR. WILLIAM H(OMER), b. Crawfordsville, Ind, May 12, 31; m. 60; c. 2. POLITICAL SCIENCE. B.A, Wabash Col, 57; M.A, Yale, 58, Ph.D, 62. ASSOC. PROF. POLIT. SCI, MINNESOTA, MINNEAPOLIS, 62- U.S.A, 51-55, Sgt. Polit. Sci. Asn. American public opinion and voting behavior; social science methodology. Publ: The political behavior of the American electorate, Allyn & Bacon, 68; co-auth, Functionalism in political science, Am. Acad. Polit. & Soc. Sci, 65. Address: Dept. of Political Science, University of Minnesota, Minneapolis, Minn. 55455.

FLANNERY, DR. GERALD V, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

FLANNERY, DR. JAMES JOSEPH, b. Syracuse, N.Y, Apr. 13, 19; m. 48. POLITICAL SCIENCE, ECONOMICS. A.B, Syracuse, 48; M.S, Wisconsin, 49, Kemper-Knapp fel, 51-52, Ph.D.(polit. sci), 56; Hopkins, 49-50. Assoc. prof. pub. admin. & dir. bur. govt. res, Fla. State, 52-55; sr. res. analyst, Pa. Econ. League, 55-56; economist, water supply & pollution control prog, U.S. Pub. Health Serv, Wash, D.C, 56-61, chief economist, div. water supply & pollution control, 61-67; Fed. Water Pollution Control Admin, DEPT. INTERIOR, 67-68, SPEC. ASST, OFF. SECY. WATER & POWER, 68- Lectr, sch. govt. & pub. admin, American Univ, 57-59. Secy. rep, Water Resources Coun, 66-67. U.S.A, 42-46, Res, 46-53, 1st Lt. Polit. Sci. Asn; Econ. Asn; Soc. Pub. Admin. Economic analysis of water resource expenditures, especially in water pollution control. Address: 862 N. Kensington St, Arlington, Va. 22205.

FLANNERY, DR. KENT VAUGHN, b. Philadelphia, Pa, Aug. 30, 34; m. 63. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Chicago, 54, M.A, 61, Ph.D. (anthrop), 64. Assoc. curator. ANTHROP, Smithsonian Inst, 64-67; ASST. PROF. & CURATOR MUS, MICHIGAN, 67- Dir. proj. prehist. human ecol. of Oaxaca Valley, Mex, 66-, sponsored by Smithsonian Inst, 66 & Nat. Sci. Found. grant, 67. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol. Prehistoric human ecology and cultural evolution, especially transition from food gathering to food producing; origins of the state. Publ: The ecology of early food production in Mesopotamia, 65 & co-auth, Farming systems and political growth in ancient Oaxaca, 67, Science; Early cultures and human ecology in South Coastal Guatemala, Smithsonian Contributions to Anthrop, 67. Address: Museum of Anthropology, University of Michigan, Ann Arbor, Mich. 48104.

FLANNERY, PROF. REGINA (MRS. KARL F. HERZFELD), b. Washington, D.C, Dec. 12, 04; m. 38. ANTHROPOLOGY. A.B, Trinity Col.(D.C.), 27, hon. D.Sc, 67; M.A, Catholic Univ, 31, Ph.D.(anthrop), 38; fel, South Carolina, 33. Fel. ANTHROP, Santa Fe Lab, N.Mex, 31; asst, CATHOLIC UNIV, 32-35, instr, 35-38, res. assoc, 38-44, asst. prof, 44-48, assoc. prof, 48-52, PROF, 52- Summer anthrop. expeds, James Bay Cree & Montagnais, West. Labrador, 33, 35, 37, 38, Spanish River Ojibwa, Ont, 39, Gros Ventres Indians, Mont, 40, 45, Lake Mistassini Montagnais, Que, 44. Fel. Anthrop. Asn.(secy, 43-47); Oriental Soc. Cultural anthropology; Algonquian speaking Indians of northeast Canada and western United States; Algonquian linguistics. Publ: The culture of the northeastern Indian hunters, Papers, Peabody Found. Archaeol; The Gros Ventres of Montana. I. Social life, Cath. Unit. Anthrop. Series; Individual variation in culture. Address: Dept. of Anthropology, Catholic University, Washington, D.C. 20017.

FLASH, DR. WILLIAM SHOEMAKER, b. Staten Island, N.Y, Mar. 6, 22; m. 49; c. 3. POLITICAL SCIENCE. Fel, Harvard, 51-52, A.B, 48, M.P.A, 50, Ph.D.(polit. sci), 54. Asst. prof. govt, Bowdoin Col, 52-56; lectr. pub. admin, sch. pub. health, Harvard, 56-57; assoc. prof. pub. admin. & asst. dean arts & sci, American Univ. Beirut, 57-64, acting dean, 60-61; ASSOC. PROF. PUB. HEALTH ADMIN, LECTR. POLIT. SCI. & ASST. DEAN PUB. HEALTH, NORTH CAROLINA, CHAPEL HILL, 64- Staff consult, State Cmn. on Structure & State Community Orgn. Serv, Mass. Fulbright award, Gt. Brit, 50-51. U.S.A, 41-46, Capt. Polit. Sci. Asn; Soc. Pub. Admin; Royal Inst. Pub. Admin. Comparative politics and administration; public health and university administration; comprehensive health planning. Address: Dept. of Public Health Administration, University of North Carolina, Chapel Hill, N.C. 27515.

FLATHMAN, DR. RICHARD E(ARL), b. St. Paul, Minn, Aug. 6, 34; m. 56; c. 2. POLITICAL SCIENCE. B.A, Macalester Col, 56; M.A, California, Berkeley, 58, Soc. Sci. Res. Coun. fel. & Wilson traveling fel, 61, Ph.D. (polit. sci), 62. Asst. prof. POLIT. SCI, Reed Col, 61-64; CHICAGO, 64-67, ASSOC. PROF, 67- Ford Found. fel, 63; Willet fel, Chicago, 66, Inland Steel fel, 66-67; Am. Philos.Asn. grant, 66-67. Fel. Philos. Soc; Polit. Sci. Asn; Soc. Polit. & Legal Philos. Political philosophy, especially analysis of the normative concepts of political discourse and argument. Publ: The public interest, Wiley, 66; Equality and generalization, In: Equality, Atherton, 67; Forms and limits of utilitarianism, Ethics, 66. Address: Dept. of Political Science, University of Chicago, 1126 E. 59th St, Chicago, Ill. 60637.

FLAVELL, PROF. JOHN H(URLEY), b. Rockland, Mass, Aug. 9, 28; m. 54; c. 2. PSYCHOLOGY. B.A, Northeastern, 51; M.A, Clark, 52, Ph.D.(psychol), 55. Clin. psychologist, Ft. Lyon Vet. Admin. Hosp, Colo, 54-55; clin. assoc. psychol, Rochester, 55-56, asst. prof, 56-60, assoc. prof, 60-65; PROF. CHILD DEVELOP, INST. CHILD DEVELOP, MINNESOTA, MINNEAPOLIS, 65- U.S.A, 46-47. Psychol. Asn. Child development; thinking. Publ: The developmental psychology of Jean Piaget, Van Nostrand, 63; Repression and the return of the repressed, J. Consult. Psychol; Abstract thinking and social integration in schizophrenia, J. Abnorm. & Soc. Psychol. Address: Institute of Child Development, University of Minnesota, Minneapolis, Minn. 55455.

FLECK, PROF. BYRON Y, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FLECK, DR. STEPHEN, Psychiat, see 11th ed, Phys. & Biol. Vols.

FLEEGE, DR. URBAN H(ERMAN), b. Dubuque, Iowa, Nov. 4, 08; m. 47; c. 5. PSYCHOLOGY. B.S, Dayton, 32; Ph.D, Catholic Univ, 40. Chmn. dept. ed, univ. & editor, Catholic Ed. Rev, Catholic Univ, 44-46; dir. guid. clin. & coordinator vet. affairs, Marquette, 46-47; chief cultural affairs sect, ed. & cultural affairs div, U.S. High Cmnr. for Germany, 47-50; dir. ed. insts. div, Fed. Civil Defense Admin, 50-52; assoc. secy. col. & univ. dept. & dir. res, Nat. Catholic Ed. Asn, 52-54; chief tech. assistance mission to Philippines & consult, nat. cmn, UNESCO, 54-57; prof. ed. & chmn. dept, DEPAUL, 57-61, ASSOC. V.PRES, 61- Lectr, George Washington, 52; Maryland, 53; coordinator, Regional Prog. Airborne TV Instr, 57- Consult, Holt, Rinehart & Winston; teaching aids div, A. Daigger Co, 65- Assoc, State Adv. Cmt. Ed, Ill; mem, State Cmt. Audiovisual Instr. Psychol. Asn; Acad. Polit. & Soc. Sci. Adolescent psychology; study of attitudes; values held by students of different age levels. Publ: Mental health for teachers; Building the foundations for creative learning, 65; Montessori pre-school education, 67. Address: 831 Fair Oaks, Oak Park, Ill. 60302.

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FLEISHER, DR. MARTIN, b. Brooklyn, N.Y, May 14, 25; m. 47; c. 2. POLITICAL SCIENCE. B.S, Duke, 45; Soc. Sci. Res. Coun. fel, Columbia, 58, Ph.D. (polit. theory), 60. Instr. POLIT. SCI, Columbia, 52-57; asst. prof, State Univ. N.Y. Col. Long Island, 57-60; ASSOC. PROF, BROOKLYN COL, 60- U.S.N, 43-46, Ens. Polit. Sci. Asn. Social and political theory. Publ: Trust and deceit in the comedies of Machiavelli, J. Hist. Ideas, 9/66. Address: Dept. of Political Science, Brooklyn College, Bedford Ave. & Ave. H, Brooklyn, N.Y. 11210.

FLEISHMAN, DR. EDWIN A(LAN), b. New York, N.Y, Mar. 10, 27; m. 49; c. 2. PSYCHOLOGY. B.S, Loyola Col.(Md), 45; M.A, Maryland, 49; Ph.D. (psychol), Ohio State, 51. Res. psychologist, personnel br, Adj. Gen. Off, 49; personnel res. bd, Ohio State, 50-51; chief skills anal. & test develop. br. & dir. skill components res. lab, Air Force Personnel & Training Res. Center, Tex, 51-56; prof. indust. admin. & psychol, Yale, 57-63; V PRES. & DIR, AM. INST. RES, WASH, D.C, 63- Guggenheim fel. & vis. prof, Israel Inst. Tech, 62-63. Mem. adv. panel. psychol. & soc. sci, Off. Secy. Defense, 59-61; consult, Off. Army Surgeon Gen, 64- U.S.N, 45-46. AAAS; Psychol. Asn; Int. Asn. Appl. Psychol; Psychomet. Soc; Asn. Health, Phys. Ed. & Recreation. Aptitude measurement and theory; industrial and military

applications of psychology; leadership and effective group functioning. Publ: Psychology and human performance, Holt, 59; Studies in personnel and industrial psychology, Dorsey, 61, rev, 68; Structure and measurement of physical fitness, Prentice-Hall, 64. Address: 8201 Woodhaven Blvd, Bethesda, Md. 20014.

FLEISHMAN, DR. MARTIN, Psychol, see 10th ed, Soc. & Behav. Vols.

FLEMING, PROF. D(ENNA) F(RANK), b. Paris, Ill, Mar. 25, 93. POLITICAL SCIENCE. A.B, Illinois, 16, A.M, 20, Ph.D, 28; Columbia, 28. Asst. prof. soc. sci, Monmouth Col, 22-23, assoc. prof, 23-24, prof. & chmn. dept, 24-27; asst. prof. POLIT. SCI, VANDERBILT, 28-30, assoc. prof, 30-38, prof, 38-61, EMER. PROF, 61-, chmn. dept, 40. Penfield traveling fel, 32-33, 38-39. U.S.A, 17-19. Polit. Sci. Asn; Soc. Int. Law. International relations. Publ: United States and the League of Nations from 1918-1920; United States and world organization from 1920 to 1933; Cold war and its origins, 1917-1960. Address: 4721 Sevranee Rd, Nashville, Tenn. 37220.

FLEMING, DR. DONOVAN E(RNEST), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

FLEMING, EDITH ENDSLEY, b. Lafayette, Ind, June 30, 05; m; c. 2. PSYCHOLOGY. A.B, Pittsburgh, 27, M.S, 46; B.S, L.S, Carnegie Inst. Tech, 31. STATISTICIAN, WEST. PSYCHIAT. INST. & CLIN, PITTSBURGH, 46- Psychol. Asn. Psychological statistics. Publ: Co-auth, Revised scoring manual for the Rosenzweig picture-frustration study, J. Psychol, 24: 165-208 & A prefrontal lobotomy follow-up report, Psychiat. Commun, 3: 72-92. Address: Western Psychiatric Institute & Clinic, 3811 O'Hara St, Pittsburgh, Pa. 15213.

FLEMING, DR. ELYSE SCHWARTZ, b. New York, N.Y, Aug. 3, 27; m. 49; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Queens Col, 48; M.A, California, 52, Ph.D, 56. Teacher, Oakland Pub. Schs, Calif, 50-52; psychologist, Douglas County, Kans. Ment. Health Clin, 57-58; asst. prof. ED. PSYCHOL, CASE WESTERN RESERVE, 59-62, ASSOC. PROF, 62- Mem, Coun. Except. Children, 60. Psychol. Asn; Ed. Res. Asn. Exceptional children; rigidity; creativity; cognitive style. Publ: Attitudinal rigidity as a measure of creativity in gifted children, J. Ed. Psychol; co-auth, Underachievement and the intelligent creative child, Except. Children, 4/65 and Interparental differences of opinion and children's academic achievement, J. Ed. Res, 11/66. Address: 3714 Atherstone Rd, Cleveland Heights, Ohio 44121.

FLEMING, DR. GLORIA HILE, Econ, see 10th ed, Soc. & Behav. Vols.

FLEMING, DR. JACK W(AYNE), b. Denver, Colo, Nov. 14, 28; m. 51; c. 2. PSYCHOLOGY. B.A, Brown, 49; M.A, Colorado, 57, Ph.D.(psychol), 59. Chief psychologist, Rainier Sch, 59-62; assoc. prof. child develop, Purdue, 62-67; RES. DIR, SEVENTH STEP FOUND, 67- Instr, exten, California, 68- U.S.A.F, 50-53. Psychol. Asn; Soc. Res. Child Develop. Child development; early experience; social perception; clinical prediction; mental retardation. Publ: Critical incident technique as an aid to in-service training, Am. J. Ment. Deficiency, 7/62. Address: 1757 Noe St, San Francisco, Calif. 94131.

FLEMING, PROF. JAMES E, Sociol, see 10th ed, Soc. & Behav. Vols, deceased 64.

FLEMING, DR. JOHN E(ATON), b. Pittsburgh, Pa, Apr. 16, 25; m. 46; c. 5. BUSINESS MANAGEMENT. B.S, Calif. Inst. Tech, 46; M.B.A, Stanford, 48; D.B.A, Southern California, 65. Admin. asst, Gen. Tire & Rubber Co. of Calif, 48-50; prod. control supvr, Clary Corp, 50-55, budget dir, 55-57, asst. to pres, 57-59; consult. ed, Eaton Sci. Corp, 59-64; ASST. PROF. MGT, Calif. State Col. Los Angeles, 64-66; SOUTHERN CALIFORNIA, 66- Ford Found. summer participant, mgt. sci. res. workshop, Univ. California, 65. U.S.N.R, 43-46, Lt.(jg). Mgt. Asn. Business decision making and business organization structure. Publ: Co-auth, Executive decision making through simulation, C.E. Merrill, 65; auth, Study of a business decision, Calif. Mgt. Rev, winter 66. Address: Dept. of Management, School of Business, University of Southern California, University Park, Los Angeles, Calif. 90007.

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FLEMING, DR. THEODORE B(OWMAN), JR, b. Raleigh, N.C, Jan. 20, 17; m. 45; c. 3. POLITICAL SCIENCE. B.A, Indiana, 39, M.A, 40; Ph.D, Yale, 57. Instr. for. govt, Yale, 47; from instr. to ASSOC. PROF. POLIT. SCI, WAYNE STATE, 50- Lectr, Mich. State-Oakland, 61; dir, Nat. Defense Ed. Act Inst. Civics, 67. Managing ed, Midwest J. Polit. Sci, 64-67. U.S.A, 41-46, Res, 47-, Lt. Col. Polit. Sci. Asn. American government; political theory; English utilitarians, especially John Stuart Mill; introductory government courses. Address: Dept. of Political Science, Wayne State University, Detroit, Mich. 48202.

FLEMING, THOMAS F(RANCIS), S.J, b. Boston, Mass, Sept. 18, 13. GOVERNMENT. A.B, Boston Col, 36, A.M, 37, M.Ed, 46; S.T.L, Weston Col, 43; A.M, Columbia, 47. Instr. govt, BOSTON COL, 37-39, asst. prof, grad. sch, 39-47, exec. asst. to pres, 47-59, FINANCIAL V.PRES. & TREAS, 59- Lectr, Boston Inst. Adult Ed, 47-; coordinator, Lowell Inst. Coop. Broadcasting Coun, 48- Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. American government and administration. Address: Boston College, Chestnut Hill, Mass. 02167.

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FLEMISTER, DR. IDA MORRIS, b. Columbia, S.C, Sept. 2, 17; div; c. 2. PSYCHOLOGY, COUNSELING. A.B, South Carolina, 38; M.Rel.Ed, South. Baptist Theol. Sem, 41; M.Ed, Chattanooga, 64, grant & Ed.D, Tennessee, 67. Soc. case worker, S.C. Dept. Pub. Welfare, 38-39; dir. relig. ed, Baptist Churches, 41-46; teacher, elem. schs, Tenn, 59-64; asst. prof. PSYCHOL, SOUTH. STATE COL, 66-68, ASSOC. PROF, 68-; GRAD. PSYCHOL, EXTEN. DIV, ARKANSAS, 67- Consult, Southwest Ark. Diag. & Remedial Center, 68- Psychol. Asn; Personnel & Guid. Asn. Impact of self concept on educational and personality development, compilation of children's stories from forty-four countries for a United Nations anthology; developmental and educational psychology. Address: Dept. of Psychology, Southern State College, Magnolia, Ark. 71753.

FLEMMING, PRES. ARTHUR S(HERWOOD), b. Kingston, N.Y, June 12, 05; m. 34; c. 5. POLITICAL SCIENCE. A.B, Ohio Wesleyan, 27, LL.D, 41; A.M, American Univ, 28, LL.D, 42; LL.B, George Washington, 33; LL.D, Conn. Wesleyan, 49, Temple, 49, Oberlin Col, 50, Alfred, 54, Int. Cent. Col, 55, Chattanooga, 55, Albright Col, 55; hon. L.H.D, Case, 54, Col. Wooster, 54; hon. D.C.L, Ohio Northern, 54. Instr. govt, American Univ, 27-30, exec. officer & dir. sch. pub. affairs, 34-39; mem. ed. staff, U.S. Daily, 30-34; cmnr, U.S. Civil Serv. Cmn, 39-48; pres, Ohio Wesleyan, 48-53, 57-58; dir, Off. Defense Mobilization, 53-57; secy, Dept. Health, Ed. & Welfare, 58-61; PRES, OREGON, 61- Chief, labor div, Off. Prod. Mgt, 41-42; chmn. mgt-labor policy cmt, War Manpower Cmn, 42-45; mem. power surv. bd, U.S. Dept. Navy, 43-44; cmn. on orgn, Exec. Br. Govt, 47-49, 53-55; chmn. adv. cmt. personnel mgt, Atomic Energy Cmn, 48-53; mem. Int. Civil Serv. Adv. Bd, 50-; President's Adv. Cmt. Govt. Orgn, 53-; asst. to dir, Defense Mobilization, 51-53; statutory mem. Nat. Security Coun; participant by President's invitation, President's Cabinet Meetings, 53- Freedoms Found. medal, 51. Polit. Sci. Asn; Soc. Pub. Admin. Address: University of Oregon, Eugene, Ore. 97403.

FLEMMING, DR. CECILE WHITE, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

FLEMMING, PROF. EDWARD L(EE), JR, b. Taunton, Mass, Mar. 19, 19; m; c. 4. PSYCHOLOGY. B.S, Bridgewater Teachers Col, 45; Ed.M, Harvard, 47; M.A, Columbia, 50, Ed.D.(psychol), 51; M.P.H, North Carolina, 62. Asst. dir, Polk County Child Guid. Clin, Fla, 47-49; dir, Duval County Child Guid. Clin, 51-56; consult. child growth & develop. & asst. dir. bur. maternal & child health, State Bd. Health, Fla, 56-61, chief psychologist, consult. & asst. dir, bur. ment. health, 62-65; assoc. prof. & dir. develop. center, South Florida, 65-66; PROF. PSYCHOL. & DEAN ACAD. AFFAIRS, ST. LEO COL, 66- Asst. prof, Fla. South. Col, 47-49. Consult, United Cerebral Palsy Clin, Jacksonville; Pine Castle Sch. Retarded Children; Children's Home Soc. of Fla. U.S.A.A.F, 40-45, Lt. Psychol. Asn; Personnel & Guid. Asn; Soc. Proj. Tech; Group Psychother. Asn; Coun. Except. Children. Group psychotherapy and pubescent children; television as a stimulus to parent discussion groups. Publ: Positive approach to interviewing; Cerebral palsy and intelligence. Address: Dept. of Psychology, St. Leo College, P.O. Box 215, St. Leo, Fla. 33574.

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FLESCHER, DR. IRWIN, b. New York, N.Y, June 12, 26; m. 53; c. 3. PSYCHOLOGY. B.S, Long Island, 49; M.A, N.Y. Univ, 50; U.S. Pub. Health Serv. fel, Columbia, 58-59, Ph.D.(psychol), 60. Welfare worker, Dept. Welfare, New York, 51-52; placement counsr, State Dept. Labor, N.Y, 52-55; psychol. trainee, Bur. Child Guid, New York, 55-56, PSYCHOLOGIST, 56-58; E. WILLISTON BD. ED, 60- Private practice, 59- U.S.A.A.F, 44-46. Psychol. Asn; N.Y. Acad. Sci. Psychotherapy and personality theory; psychodiagnosis; psychoprognosis and perceptual organization; creative and symbolic processes; anxiety and the psychological future; convergent and divergent thinking in gifted children; verticalized, inverted and mirror perception. Publ: Ocular-manual laterality and perceptual rotation of literal symbols, Genetic Psychol. Monogr, 62; Anxiety and achievement of intellectually gifted and creatively gifted children, J. Psychol, 63; Needle trades opportunities for the mentally retarded, In: Occupational information for the mentally retarded, 67. Address: 33 Canterbury Lane, Roslyn, N.Y. 11577.

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FLETCHER, DR. F. MARION, b. Haynesville, La, Mar. 16, 36; m. 61. INDUSTRIAL RELATIONS, ECONOMICS. B.S, Southern Methodist, 59; M.B.A, Pennsylvania, 64, univ. grant & Ph.D.(appl. econ), 66. ASST. PROF. indust, Wharton Sch, Pennsylvania, 66-67; MGT, COL. BUS, LA. STATE, 67- Mgt. Asn; Indust. Rels. Res. Asn; Econ. Asn. Manpower economics; employment problems of minority groups; fundamental education programs in industry. Publ: Market restraints in the retail drug industry, Univ. Pennsylvania, 67. Address: College of Business, Louisiana State University, Baton Rouge, La. 70803.

FLETCHER, PROF. FRANK M(ILFORD), b. Colorado Springs, Colo, Mar. 30, 13; m. 43; c. 3. PSYCHOLOGY. B.A, Colorado, 35; Ph.D.(psychol), Yale, 39. Asst, Yale, 35-39, res. assoc, 39-40; tech. rep, U.S. Employ. Serv, Mass, 40-42; lectr. psychol. & chief psychologist, Michigan, 46-47; from asst. prof. to PROF. PSYCHOL, OHIO STATE, 47-, dir. counseling & testing center, 47-62. Consult, Vet. Admin, 53-, mem. adv. cmt, psychiat, neurol. & psychol. serv, cent. off, 64-68; consult, Peace Corps, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N, 42-46, Lt. Comdr. Fel. Psychol. Asn; Personnel & Guid. Asn.(treas, 50, pres, 57). Learning and motivation; vocational counseling techniques; aptitude test. Address: 1945 N.High St, Columbus, Ohio 43210.

FLETCHER, PROF. HAROLD A(UGUSTUS), JR, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

FLETCHER, DR. HAROLD J(OHN), b. New York, N.Y, May 21, 31; m. 58; c. 1. PSYCHOLOGY. B.Sc, Ohio State, 57, M.A, 58, Ph.D, 60. Res. proj. assoc, primate lab, WISCONSIN, 60-62, asst. prof. PSYCHOL, 62-66, ASSOC. PROF, 66- Psychol. Asn. Human and animal learning; statistics; experimental methodology. Address: Dept. of Psychology, University of Wisconsin, Madison, Wis. 53706.

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FLETCHER, DR. L. P, b. Grenada, W.I, Dec. 26, 27; m. 65; c. 2. ECONOMICS. B.Comm, Mt. Allison, 59; A.M, Brown, 61, Ph.D.(econ), 65. Instr. ECON, Brown, 63-64; asst. prof, Colby Col, 64-65; ASST. PROF, WATERLOO, 65-, dept. chmn, 66-67. Consult, Planning & Resources Inst, 66- Econ. Asn. The application of marginalism to accounting; estate taxation in United States; economic development in Trinidad. Address: Dept. of Economics, University of Waterloo, Waterloo, Ont, Can.

FLETCHER, DR. LEHMAN B(LANTON), b. McAlpin, Fla, May 29, 33; m; c. 1. AGRICULTURAL ECONOMICS. B.S.A, Florida, 54; Danforth Found. fel, California, 54-60, Ph.D.(agr. econ), 60. Acting asst. prof. agr. econ, California, Los Angeles, 59-60; ASST. PROF. ECON, IOWA STATE, 60-U.S.A.F, 55-56, Res, 56-, 1st Lt. Econ. Asn; Agr. Econ. Asn. Economic theory; agricultural marketing; industrial organization. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50010.

FLETCHER, PROF. LEONARD JAMES, JR, b. Davis, Calif, Feb. 5, 25; m. 49; c. 3. INDUSTRIAL ENGINEERING. B.S.I.E, Bradley, 49; M.S, Iowa, 61. Indust. engr, Modine Mfg. Co, 49-52; ASSOC. PROF. INDUST. ENG, BRADLEY, 52- U.S.A, 43-46, Res, 46-58, Capt. Inst. Indust. Eng; Soc. Eng. Ed. Relation between method of wage payment and incidence of psychosomatic disorders. Address: Dept. of Industrial Engineering, Bradley University, Peoria, Ill. 61606.

FLETCHER, PROF. MAX E(LLIS), b. Preston, Idaho, Aug. 23, 21; m. 54; c. 2. ECONOMICS. B.A, Washington (Seattle), 46; M.A, Idaho, 49; Fulbright scholar, London Sch. Econ, 54-55; univ. fel, Knapp fel. & Ford Found. fel. & Ph.D.(econ), Wisconsin, 57. Instr. ECON, Marquette, 55-56; asst. prof, Humboldt State Col, 57-58; from asst. prof. to assoc. prof, IDAHO, 58-65, PROF, 65- Vis. prof, Texas, 67-68. U.S.N, 39-45, 47-48, Ens. Econ. Asn; Econ. Hist. Asn. Economic analysis of changes in ocean shipping. Publ: Suez Canal and world shipping, J. Econ. Hist; co-auth, Value of roads to and in public lands: effect on timber and general values. Address: Route 1, Viola, Idaho 83872.

FLETCHER, PROF. MONA, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 64.

FLETCHER, PROF. RALPH CARR, b. Ava, Ill, Aug. 11, 01; m. 26; c. 2. SOCIAL SCIENCE. A.B, Washington (St. Louis), 24, A.M, 27; fel, Brookings Grad. Sch, 24-25; Wisconsin, 25-26. Instr, Indiana, 25-26; from instr. to asst. prof. econ, Washington (St. Louis), 27-35; dir, Bur. Soc. Res, Pittsburgh, Pa, 35-41; assoc. prof, Univ. Pittsburgh, 39-41; from assoc. prof. to prof. SOC. WORK, MICHIGAN, 41-66, EMER. PROF, 66- Lectr, Toledo, 53-; dir. prog. develop. & res, United Community Serv, Metrop. Detroit, 66-Consult, U.S. Childrens Bur, 39-45; tuberc. sect, U.S. Pub. Health Serv, 48-49. Statist. Asn; fel. Pub. Health Asn. Social work education; institutional treatment of children; corrections; community surveys; public health education. Address: 17 Heatheridge, Ann Arbor, Mich. 48104.

FLETCHER, DR. RAYMOND H(AROLD), b. Roxton, Tex, Oct. 14, 14; m. 35; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, E.Tex. State Col, 35, M.S, 38; fel, Texas, 42-43, Ph.D, 44. Prin. & teacher, high schs, Tex, 35-36, teacher, 36-41; instr, Univ. Texas, 43-44; prin, pub. schs, Calif, 44-45, dir. curriculum & instr, Tex, 45-47; psychologist, ROHRER, HIBLER & REPLOGLE, 47-48, PARTNER, 48- Summer lectr, Southern Methodist, 46; Sul Ross State Col, 46-47. Psychol. Asn. Application of the principles of psychology to the porblems of leadership in business and industry. Publ: A growing edge—your competitive advantage, In: The management psychologist, Rohrer, Hibler & Replogle, 1/65; co-auth, Managers for tomorrow, New Am. Library of World Lit, N.Y, 65; auth, Management interest in promoting mental health in human relations, Tex. J. Sci. Address: 3545 First National Bank Bldg, Dallas, Tex. 75202.

FLETCHER, PROF. RICHARD MUMMA, b. Lancaster, Pa, Jan. 27, 16. INDUSTRIAL PSYCHOLOGY. A.B, Franklin & Marshall Col, 40; Ph.D, Pa. State, 55. Supvr. order & billing dept, Columbia Div, Grinnell Corp, 42-46; asst. to v.pres, York Corrugating Co, 47-49; specialist purchasing systs, Yoh Eng, 50-51; assoc. prof. PSYCHOL, URSINUS COL, 56-61, PROF. & CHMN. DEPT, 61- Dir. study training methods, Spec. Devices Center, U.S. Dept. Navy, 55. Psychol. Asn. Industrial training; thinking; teaching methods; psychotherapy. Publ: Relationship of some traits of foremen and working conditions to industrial grievances. Address: 2812 Village Green Lane, Norristown, Pa. 19401.

FLETCHER, DR. ROY JACKMAN, b. Red Deer, Alta, Feb. 1, 35; m. 66; c. 1. CLIMATOLOGY. B.A, Alberta, 57; M.A, Minnesota, 59; Ph.D.(geog), Clark, 68. Lectr. GEOG, State Univ. N.Y. Buffalo, 61-68; ASSOC. PROF, LETHBRIDGE, 68- Asn. Am. Geog; Soc. Photogram; Arctic Inst. N.Am; Can. Asn. Geog. Aerial photograph interpretation of Arctic regions; synoptic climatology of large monthly precipitation departures. Publ: The use of aerial photographs for engineering soil reconnaissance in Arctic Canada, Photogrammetric Eng, 64. Address: Dept. of Geography, University of Lethbridge, Lethbridge, Alta, Can.

FLETCHER, PROF. SAMUEL G(LEN), b. Preston, Idaho, Dec. 5, 28; m. 48, 67; c. 5. SPEECH PATHOLOGY, AUDIOLOGY. B.S, Utah State, 51; M.S, Utah, 57, Ph.D.(speech path, audiol), 58. Teacher & prin, elem. & sec. schs, Idaho & Utah, 50-56; res. asst, col. med, Utah, 56-59; med. sch, Oregon, 59-62; dir. speech & hearing center, Utah State, 62-65, prof. audiol. & speech path. & head dept, 65-68, dir. commun. sci. lab, 66-68; PROF. SPEECH & DIR. AUDIOL. & SPEECH PATH, NEW MEXICO, 68- U.S. Pub. Health Serv. res. & spec. res. fels, Ore. Syst. Higher Ed, Reed Col, 59-62. Adv. speech path, progs. for children with speech impairment from maxillo-facial anomaly, Utah Dept. Health, 63-; monthly plastic clin, Primary Children's Hosp, 65-; statist. consult, lang. proj, med. sch, Oregon, 65- Intel.C, U.S.N, 46-48. Speech & Hearing Asn; Cleft Palate Asn. Anatomy and physiology of the speech mechanism; systems of communication; physiological phonetics. Publ: Anatomy and physiology of the auditory system, In: Audiological assessment, 68; Speech as an element in organization of a motor response, J. Speech & Hearing Res, 62; Cleft palate: a broader view, J. Speech & Hearing Disorders, 66. Address: Dept. of Speech Pathology, University of New Mexico, Albuquerque, N.Mex. 87106.

FLEXMAN, RALPH EUGENE, Soc. & Behav. Sci, see 10th ed, Soc. & Behav. Vols.

FLEXNER, DR. JEAN ATHERTON (MRS. P. LEWINSON), b. Louisville, Ky, Nov. 27, 99; m. 27. ECONOMICS. A.B, Bryn Mawr Col, 21; Ph.D.(econ), Robert Brookings Grad. Sch. Econ. & Polit, 30. Indust. economist, div. labor standards, U.S. Dept. Labor, 35-43; economist, U.S. Tariff Cmn, 43; U.S. War Dept, 43-45; labor economist, bur. labor statist, U.S. Dept. Labor, 45-61; RETIRED. Indust. Rels. Res. Asn. Labor legislation; industrial relations; cooperatives. Publ: Labor-management relations in Scandinavia & Consumer cooperatives, recent developments, Bull, Bur. Labor Statist; Child labor, facts and figures, Bull, U.S. Children's Bur. Address: 1718 Army-Navy Dr, Arlington, Va. 22202.

FLEXNER, PROF. KURT F(ISHER), b. Vienna, Austria, Sept. 26, 16; nat; m. 42; c. 2. INTERNATIONAL ECONOMICS. B.S, Hopkins, 41; Ph.D, Columbia, 55. From asst. prof. to assoc. prof. econ, banking & finance, N.Y. Univ, 46-59; dir. mortgage finance, Am. Bankers Asn, 59-62, dep. mgr, 62-65; prof. finance, N.Y. Univ, 65-66; chief financial insts. adv, Agency Int. Develop, U.S. Opers. Mission to Korea, 66-68; PROF. FINANCE & ECON. DEVELOP. MEMPHIS STATE. SEPT. 68- Urban Am-Ford Found. res. grant, 65-66. Consult, State Housing Div. & State Savings Asn. League, N.Y, 55-59; dir, Pub. Affair. Cmt, New York, 64-66. U.S.A, 44-45. Econ. Asn; Acad. Polit. Sci. Mortgage finance. Publ: Co-auth. & ed, Mortgage officer handbook, Am. Bankers Asn, 63; Improving the mortgage market, 59 & Taxing of mutual financial institutions, 59, U.S. Senate. Address: Dept. of Economics, Memphis State University, Memphis, Tenn. 38111.

FLIEGE, DR. STEWART E(DWARD), b. Alhambra, Calif, Oct. 8, 27; m. 52. PSYCHOLOGY. B.A, California, Los Angeles, 50; M.A, Michigan, 52, fel, 52-55, Ph.D.(psychol), 56. Asst. soc. scientist, systs. develop. div, Rand Corp, 55-56; comput. systs. specialist, Syst. Develop. Corp, 56-57, dept. mgr, 57-64; V.PRES, COMPUT. SCI. CORP, 64- U.S.A, 44-47. Psychol. Asn; Asn. Comput. Mach; Psychomet. Soc. Computers and automation; information systems. Publ: Experimental methods and instrumentation in psychology, McGraw, 66. Address: 8908 Charred Oak Dr, Bethesda, Md. 20034.

FLIEGEL, PROF. FREDERICK C(HRISTIAN), b. Edmonton, Alta, Apr. 3, 25; nat; m. 55. RURAL SOCIOLOGY. B.A, Wisconsin, 49, M.A, 52, Ph.D.(rural sociol), 55. Proj. asst. rural sociol, Wisconsin, 54-55; asst. prof, Pa. State, 55-63, assoc. prof, 63-65; commun, Mich. State, 65-67; PROF. RURAL SOCIOL, ILLINOIS, URBANA, 68- Fulbright lectr, Univ. Rio Grande do Sul, Brazil, 62-63. Consult, Orgn. Am. States, 62-63. U.S.M.C, 43-46. Sociol. Asn; Rural Sociol. Soc. Technological change and low income in rural society; sociology of development. Publ: Literacy and exposure to instrumental information among farmers in Southern Brazil, 66 & co-auth, Differential perceptions of innovations and rate of adoption, 67, Rural Sociol; Attributes of innovations as factors in diffusion, Am. J. Sociol, 67. Address: Dept. of Agricultural Economics, University of Illinois, Urbana, Ill. 61801.

FLIEGEL, DR. NORRIS E(LI), b. Beverly, Mass, Aug. 14, 22; m. 51. EDUCATIONAL & CLINICAL PSYCHOLOGY. B.S, Boston, 47; Ed.M, Harvard, 49; Ed.D, N.Y. Univ, 56. Psychologist, Worcester Youth Guid. Center, Mass, 49-51; from lectr. to asst. prof, ed. clin, HUNTER COL, 52-59, asst. prof. ED. PSYCHOL, DEPT. OF ED, 59-66, ASSOC. PROF, 66-, ASST. DEAN TEACHER ED, 66- U.S.A, 42-46. Psychol. Asn. Child psychotherapy; remedial reading; application of psychoanalytic theory to education. Publ: Co-auth, The vanguard artist, Quadrangle, 65. Address: Apt. 2A, 98 Riverside Dr, New York, N.Y. 10024.

FLIEGLER, PROF. LOUIS A, b. New York, N.Y, Sept. 3, 17; m. 45; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 45; M.A, N.Y. Univ, 47, Ph.D. (psychol), 54. Teacher, pub. schs, Calif, 47-53, psychologist, 51-53; instr. psychol. & ed, North. Wyo. Community Col. & Univ. Wyoming, 54; res. psychologist-asst, col. med. & psychiat, Colorado, 54-55; asst. prof. psychol. & ed, Denver, 55-56; assoc. prof. spec. ed, Syracuse, 56-60; coordinator, ed. except. children, Denver, 60-66; PROF. SPEC. ED. & CHMN. DEPT, KENT STATE, 66- Dir. & consult, Colonial Sch. Retarded Children, 58-; counsr, San Francisco State Col. Clin. psychologist, Colo. Psychopath. Hosp. Psychologist & ed. consult, 55-56. Mem. Coun. Except. Children. Psychol. Asn; Asn. Ment. Deficiency. Publ: Curriculum planning for the gifted child; Dimensions of the creative process, In: Creativity and psychological health; co-auth, The gifted, In: Review of educational research. Address: Dept. of Special Education, Kent State University, Kent, Ohio 44240.

FLIESS, PROF. PETER J(OACHIM), b. Germany, May 8, 15; nat; m. 41; c. 1. POLITICAL SCIENCE. A.B, Stanford, 44; M.A, Harvard, 47, Ph.D.(polit. sci), 51. Asst. prof. GOVT, La. State, 48-54, assoc. prof, 54-59, PROF, 59-67; MASSACHUSETTS, 67- Ford Found. fel, 51-52; Fulbright lectr, Frankfurt, 55-56; Falk lectr, Carnegie Inst. Tech, 62. Consult, constitutional proj, P.R, 51. U.S.A, 43-46, Capt. Polit. Sci. Asn; Am. Soc. Int. Law; Int. Asn. Philos. Law & Social Philos. International relations; comparative government; political theory. Publ: Freedom of the press in the German Republic, 1918-1933, 55 & Thucydides and the politics of bipolarity, 66, La. State Univ; International relations in the bipolar world, Random, 68. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

FLINN, PROF. THOMAS A(UGUSTIN), b. St. Paul, Minn, Apr. 30, 25; m. 49; c. 2. POLITICAL SCIENCE. B.A, Minnesota, 47, Ph.D, 57. Instr. polit. sci, Wash. State Col, 51; Minnesota, 54-55; from assoc. prof. govt. to prof, Oberlin Col, 55-67; PROF. POLIT. SCI, OHIO STATE, 67- U.S.N, 43-46, Lt.(jg). Polit. Sci. Asn. Political parties and behavior; state and local politics. Publ: Continuity and change in Ohio politics, J. Polit, 62; Party responsibility in the States, Am. Polit. Sci. Rev, 64; Local party leaders, Midwest J. Polit. Sci, 65. Address: Dept. of Political Science, Ohio State University, Columbus, Ohio 43210.

FLINN, DR. WILLIAM A, b. Atlanta, Ga, May 11, 12; m. 40; c. 4. MARKETING. B.S, Davidson Col, 33; M.B.A, Harvard, 36; Ph.D.(mkt), Ohio State, 59. Salesman, Gulf Oil Corp, 34; Reynolds Metals Co, Inc, 36-39; floor supt, Rich's, Inc, 39-41; purchasing agent, Irvindale Farms, Inc, 45-47; secy-treas. & gen. mgr, Spacarb Distributors, Inc, 48; instr. mkt-econ, Emory, 49; asst. prof. mkt, GA. INST. TECH, 49-60, ASSOC. PROF. MKT. & COORDINATOR MKT, 60- Assoc, Danforth Found, 54-; Gulf Oil Corp. Aid Ed. Prog. study grant, summer 62; Nat. Sci. Found. res. grant, 67-A.U.S, 41-46, Col. Mkt. Asn. Publ: Co-auth, Locational studies of the housing market, U.S. Dept. Commerce, 55; auth, History of retail credit company, Retail Credit Co, 59; co-auth, Principles of marketing, Pitman Pub. Co, 61. Address: Georgia Institute of Technology, School of Industrial Management, Atlanta, Ga. 30332.

FLINT, DR. ARDEN (ALBERT), b. Albany, N.Y, Aug. 5, 26; m. 51; c. 4. PSYCHIATRY. B.S, Union (N.Y), 46, fel, 48-59, M.D, 51. Intern, U.S. Pub. Health Serv. Hosp, Staten Island, N.Y, 51-52, res. psychiat, Lexington, Ky, 52-55; staff psychiatrist, ment. health study center, community servs. br, Nat. Inst. Ment. Health, 55-59, assoc. dir, 59, res. psychiatrist, child res. br, Nat. Insts. Health, 59-67; ASST. CHIEF PSYCHIAT, OUTPATIENT DEPT, U.S. PUB. HEALTH SERV, WASH, D.C, 67- U.S.N.R, 44-46; U.S. Pub. Health Serv, 51-, Sr. Surgeon. Am. Med. Asn; Psychiat. Asn. Diagnosis and treatment of psychiatric illness in patients and families; psychoanalysis, industrial group consultation. Address: 3610 Shepherd, Chevy Chase, Md. 20015.

FLINT, DR. AUSTIN WHITCOMB, b. Alexandria, Va, Aug. 15, 31. PSYCHOLOGY. B.A, La. State, 55, M.A, 57, Ph.D.(indust. psychol), 60. Asst. psychol, La. State, 55-59; indust. psychologist, Metrop. Life Ins. Co, 59-63; ASSOC. PROF. PSYCHOL, AM. INT. COL, 63- Lectr, City Col, 61-63. U.S.A.F, 50-53, Sgt. Psychol. Asn. Industrial personnel selection and evaluation; attitude and opinion research; measurement of mental abilities; group dynamics; statistics. Address: Dept. of Psychology, American International College, Springfield, Mass. 01109.

FLINT, PROF. JOHN TORGNY, b. Mahnomen, Minn, Mar. 28, 27; m. 60. SOCIOLOGY. B.A, Kent State, 49; M.A, Chicago, 51; Fulbright grant, Norway, 51-52; Scandinavian Area Studies fel, 52-53; Ph.D, Wisconsin, 57. Instr. SOCIOL, Wisconsin, 54-55; Kentucky, 57-58, asst. prof, 58-63; from asst. to ASSOC. PROF, San Fernando Valley State Col, 63-66; STATE UNIV. N.Y. BINGHAMTON, 66- U.S.N, 45-46. Sociol. Asn. Sociology of religion; sociological theory; historical sociology; developing and utilizing quantitative indicators for comparative, social historical studies of religious change: emphasis on secularization. Publ: Church in relation to family life, In: Norway's families; The secularization of Norwegian society, 4/64 & India as a secularizing state, 1/65, Comp. Studies Soc. & Hist. Address: Dept. of Sociology, State University of New York, Binghamton, N.Y. 13901.

FLIPPO, PROF. EDWIN B(LY), b. Ft. Worth, Tex, Sept. 13, 25; m. 50; c. 1. INDUSTRIAL ADMINISTRATION. B.S, Missouri, 47; M.B.A, Ohio State, 48, Ph.D.(bus. orgn), 53. Instr. mgt, Missouri, 48-49; asst, Ohio State, 49-51, res. assoc, res. found, 51-52; asst. prof. indust. mgt, Miami (Ohio), 52-57; PROF. MGT, Los Angeles State Col, 57-64; ARIZONA, 64- Consult, Air Force Inst. Tech. U.S.A, 43-46, Lt. Soc. Adv. Mgt; fel. Acad. Mgt. Job analysis; organization; personnel management. Publ: Profit sharing in American business; Principles of personnel management, McGraw; Management: a behavioral approach, Allyn & Bacon, 66. Address: Dept. of Management, University of Arizona, Tucson, Ariz. 85721.

FLITTIE, PROF. E(DWIN) G(ILBERT), b. Brookings, S.Dak, Mar. 10, 24; m. 49. SOCIOLOGY. B.A, Colorado, 46; M.A, Stanford, 47; Ph.D, Northwestern, 55. Instr. sociol, Wyoming, 47-51; planning officer, Inst. Inter-Am. Affairs, Colombia, 51-54; asst. prof. SOCIOL, San Jose State Col, 55-57; WYOMING, 57-60, assoc. prof, 61-64, PROF, 64-, HEAD DEPT, 66-, asst. to dean, 61-63, head dept. sociol, anthrop. & geog, 63-66. Sociol. Asn. Industrial sociology; community; population. Address: Dept. of Sociology, University of Wyoming, Laramie, Wyo. 82070.

FLOCK, DR. HOWARD R, b. Philadelphia, Pa, Nov. 24, 22. PSYCHOLOGY. B.A, Yale, 43; M.A, Harvard, 58; Ph.D.(psychol), Cornell, 62. Asst. prof. PSYCHOL, Hunter Col, 61-64; ASSOC. PROF, Dartmouth Col, 64-65; YORK (ONT), 65- Mem, cmt. exp. psychol, Nat. Res. Coun. Can, 67- U.S.N.R, 62-66, Lt.(jg). AAAS; Psychol. Asn; Psychonomic Soc. Experimental psychology; perception and sensory processes; research design and statistics. Publ: Three theoretical views of slant perception, Psychol. Bull, 62: 110-121; Some conditions sufficient for accurate monocular perceptions of moving surface slants, J. Exp. Psychol, 67: 560-572; A possible optical basis for monocular slant perception, Psychol. Rev, 71: 380-391. Address: Dept. of Psychology, York University, Toronto 12, Ont, Can.

FLOM, DR. FLOYD O(RVILLE), b. Starbuck, Minn, Nov. 22, 18; m. 49; c. 4. POLITICAL SCIENCE. B.A, Hamline, 42; M.A, Minnesota, 51, Ph.D, 57. Asst. prof. polit. sci, Whittier Col, 51-53; Long Beach State Col, 53-54; Minnesota, 54-59; mgr. pub. affairs, missile & space vehicle dept, Gen. Elec. Co, 59-66; V.PRES. PUB. AFFAIRS, AM. PAPER INST, 66- Mem, House Rep, Minn, 47-48, 49-50; field dir, Minn. Repub. State Cent. Cmt, 54. U.S.A, 42-46. Polit. Sci. Asn. State and local government; political parties; interest groups and legislation; political behavior and process. Publ: Co-auth, Minnesota Department of Taxation, an administrative history. Address: 144 Stockton Rd, Bryn Mawr, Pa. 19010.

FLOOD, PROF. KENNETH U, b. Fond Du Lac, Wis, Aug. 26, 25; m. 47; c. 4. LOGISTICS, TRANSPORTATION. B.S, Marquette, 50; M.B.A, California, Berkeley, 51; LL.B, Emory, 59; D.B.A, Harvard, 63. Traffic mgr, Geo. J. Meyer Mfg. Co, Wis, 52-54; assoc. prof. transportation, Ga. State Col. Bus. Admin, 54-61; vis. lectr, grad. sch. bus, Harvard, 61-62; assoc. prof, grad. sch. bus. admin, Illinois, Urbana, 62-64; dir. distribution, John Sexton & Co, Ill, 64-66; DISTINGUISHED PROF. FOOD INDUST. LOGISTICS, AGR. ECON. DEPT, SCH. AGR, MISSOURI, 66-; PRES, LOGISTICS RES, INC, 66-Consult, Swift & Co; John Morrell & Co; Universal Foods Corp; Hammermill Paper Co; Planning Res. Corp; Mack Trucks & South. Freight Asn. V.pres. ed, Nat. Coun. Phys. Distribution Mgt, 64-66. U.S.A, 43-46, T/Sgt. Soc. Traffic & Transportation:(v.pres, 60-61); Transportation Res. Forum. Ap-

plying newly developed manufacturing tools, techniques and programs to the field of logistics, distribution and transportation. Publ: Traffic management, W.C. Brown, 59, revision, 63, 65; Co-auth, Transportation problems-the decision is yours, Appleton, winter 67-68; auth, Transportation research, Interstate Commerce Cmn. Practitioners Asn, 54. Address: 200 Munford Hall, University of Missouri, Columbia, Mo. 65201.

FLORA, PROF. ABRAM CLINE, JR, b. Columbia, S.C, June 21, 22; m. 52; c. 3. ECONOMICS. B.A, South Carolina, 43, M.A, 49; Ph.D.(econ), North Carolina, 58. Instr. ECON, South Carolina, 46-47; North Carolina, 48-50; from asst. prof. to PROF, SOUTH CAROLINA, 51-, ed. pub. 60-61, dir. bur. bus. & econ. res, 61-67. S.C. field dir, Coastal Plains Regional Cmn, 67-68. Summers, participant, Polit. Econ. Conf, N.C, 59, prog. teachers econ. in recent develop. appl. econ, Chicago, 61. Secy-treas, Assoc. Univ. Bur. Bus. & Econ. Res, 64-67. U.S.N, 43-46, Res, 46-, Lt. Analysis of the South Carolina economy and its relation to the other southeastern states; business research. Publ: Spartanburg County: an economic profile, Bur. Bus. & Econ. Res, 66; Dynamic economy of South Carolina since 1958 & Industrial location in South Carolina, 1/64, Bus. & Econ. Rev. Address: Coastal Plains Commission, 611 Barringer Bldg. Columbia, S.C. 29201.

FLORA, DR. DONALD F(ORREST), b. Aberdeen, Wash, Jan. 13, 34; m. 55; c. 3. ECONOMICS, RESOURCE ECONOMICS. B.S, Washington (Seattle), 56; M.F, Yale, 59, Ph.D.(econ), 61. Instr. forest econ, Yale, 60-61; forest economist, U.S. Forest Serv, Ore, 61-64; resource economist investment mgt, Greenacres, Inc, Wash, 64-65; systs. analyst forest fire res, PAC. NORTHWEST FOREST & RANGE EXP. STA, U.S. FOREST SERV, 65-67, ASST. DIR. ECON, 67- Eng.C.Res, 56-65, Capt. Econ. Asn; Agr. Econ. Asn; Soc. Am. Foresters. Decision theory; forest economics; resource policy. Publ: Time discounting by certain forest landowners, Yale, 66; Uncertainty in forestry investment decisions, J. Forestry, 6/64. Address: Pacific Northwest Forest & Range Experiment Station, U.S. Forest Service, P.O. Box 3141, Portland, Ore. 97208.

FLORA, DR. ROGER E, Biostatist. See 11th ed, Suppl. II to Phys. & Biol. Vols.

FLORES, DR. ENYA P, b. San Pablo City, Philippines, Jan. 3, 36; m. 67. ANTHROPOLOGY, SOCIOLOGY. B.S, Philippines, 55; M.A, Iowa, 59; Ph.D. (anthrop), Catholic Univ, 67. Instr. biol, Maryville Col.(Mo), 61-62; SOCIOL. & ANTHROP, St. Joseph Col.(Md), 62-63, 64-65; ASST. PROF, DAYTON, 65-Instr, Marywood Col, summer, 63; Inst. Philippine Culture res. award, 63-64. Mem, Anthrop. Conf, 63-67. Fel. Anthrop. Asn. Cultural anthropology of Southeast Asia. Address: Dept. of Sociology, University of Dayton, Dayton, Ohio 45409.

FLORINSKY, PROF. MICHAEL T, b. Kiev, Russia, Dec. 27, 94. ECONOMICS, POLITICAL SCIENCE. A.M, Columbia, 27, Ph.D, 31. Assoc. ed, Econ. & Soc. Hist. of World War I, Carnegie Endowment Int. Peace, 21-32; assoc. econ. & polit. sci, COLUMBIA, 31-36, lectr, 37-46, asst. prof, 47-53, assoc. prof, 53-56, prof, 56-63, EMER. PROF. ECON, 63- Ed, Commercial & Tariff Hist, Carnegie Endowment Int. Peace, 38-41; gen. ed, Russian series, Collier Books. Mem. Coun. For. Rels. Russian Army, 14-17, Lt. Acad. Polit. Sci; Econ. Hist. Asn; Hist. Asn. Russian history, imperial and Soviet, fascism and national socialism; European integration. Publ: Integrated Europe?; Encyclopedia of Russia and the Soviet Union; Russia, a short history, Macmillan, 64. Address: Quai Perdonnet 14, 1800 Vevey, Switz.

FLORO, PROF. GEORGE K, b. Ottawa Co, Ohio, Dec. 8, 18; m; c. 2. SOCIOLOGY. B.E, Toledo, 47; M.A, Northwestern, 48; Ph.D, Chicago, 54. Instr. sociol, Kansas, 48-50; N.Park Col, 53; Thornton Jr. Col, 53-54; La. State, 54-56, asst. prof, 56-57; dir. soc. sci. res, Community Studies, Inc, Peoria, Ill, 57-58; assoc. prof. SOCIOL, Berea Col, 58-64; from assoc. prof. to PROF, WIS. STATE, EAU CLAIRE, 64- U.S.N, 41-45. Sociol. Asn; Soc. Study Social Probs. City manager occupation in Michigan; hospital administration in Louisiana; social organization and welfare; sociology of administration. Publ: Continuity in city-manager careers, Am. J. Sociol; Old guard employees, Hospitals. Address: Dept. of Sociology, Wisconsin State University, Eau Claire, Wis. 54701.

FLORY, DR. CHARLES DAVID, b. Nokesville, Va, Sept. 28, 02; m. 25; c. 2. CLINICAL & EDUCATIONAL PSYCHOLOGY. A.B, Manchester Col, 24; A.M, Chicago, 28, Ph.D.(child develop), 33. Teacher, high sch, Ind, 24-27; instr. ed, Park Col, 28-30; asst, lab. schs, Chicago, 30-31, univ, 31-33, Gen. Ed. Bd. fel. child develop, 34-35; from asst. prof. to prof. ed. & psychol, Lawrence Col, 35-43; consult. psychologist, Stevenson, Jordan & Harrison, 43-45; PARTNER, ROHRER, HIBLER & REPLOGLE, 45- Lectr, Crozer Sem, 63- Mem. bd. visitors, col. bus. admin, Boston, 65-; bd. gov, White Plains Hosp, 66- AAAS; fel. Psychol. Asn; Acad. Relig. & Ment. Health; N.Y. Acad. Sci. Mental and physical growth; skeletal development; personality evaluation; growth of mentally deficient children; child development; clinical evaluation; industrial personnel. Publ: Ed, Managers for tomorrow, 65 & auth, Managing through insight, 68, New Am. Library; The physical growth of mentally deficient boys, Soc. Res. Child Develop. Address: Rohrer, Hibler & Replogle, 610 Fifth Ave, New York, N.Y. 10020.

FLORY, DEAN RAYMOND L, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FLOURNOY, DR. HOUSTON, b. New York, N.Y, Oct. 7, 29; m. 54. POLITICAL SCIENCE. B.A, Cornell, 50; DuBois fel. & M.A, Princeton, 52, Ph.D. (polit), 56. Asst, div. legis. info. & res, State Legis, N.J, 55; legis. asst. to Senator H. Alexander Smith, U.S. Senate, 55-57; asst. prof. govt, Pomona Col, 57-63, assoc. prof, 63-66; CONTROLLER, STATE OF CALIF, 67-Assemblyman, Calif. Legis, 60-66; Soc. Sci. Res. Coun. fel, Inst. Judicial Process, Wis, summer, 58. U.S.A.F, 52-54, Res, 54-67, Air Nat. Guard, 67-, Maj. Polit. Sci. Asn. Legislative process; American political parties; constitutional law. Publ: Co-auth, Legislative bodies in California, Dickensen, 66. Address: 4100 Riding Club Lane, Sacramento, Calif. 95825.

FLOWER, PROF. MILTON EMBICK, b. Harrisburg, Pa, Feb. 27, 10. POLITICAL SCIENCE. A.B, Dickinson Col, 31; A.M, Columbia, 37, Ph.D, 46. Teacher, high sch, Pa, 33-45; res. historian, U.S. Army Info. Sch, 46-47; asst. prof. POLIT. SCI, DICKINSON COL, 47-52, assoc. prof, 52-58, PROF, 58-, CHMN. DEPT, 61- Vis. prof, American Univ, 50; Dijon, France, 55-56; Dept. State lectr, Asia, 62-63. Res. ed, Army Almanac, 46-47. Political theory; United States diplomatic history. Publ: Life of James Parton: father of modern biography; co-auth, This is Carlisle: story of a Pennsylvania town. Address: Dept. of Political Science, Dickinson College, Carlisle, Pa. 17013.

FLOWERS, PROF. E(LBERT) C(ONNER), JR, b. Nashville, Tenn, Aug. 6, 30; m. 54. INTERNATIONAL RELATIONS. B.A, Vanderbilt, 52, Cordell Hull fel, 52-53, M.A, 57; Columbia, 58-59, 61-62. ASST. PROF. POLIT. SCI, THE CITADEL, 56- Sig.C, U.S.A, 54-56. Polit. Sci. Asn; Soc. Int. Law; Acad. Polit. Sci. American foreign policy in China in post-second world war period; North Atlantic Treaty Organization and its Anglo-American relations; strategic theory; governments and politics in the middle east. Publ: The Arab League in perspective, Citadel Monogr. Address: Dept. of Political Science, The Citadel, Charleston, S.C. 29409.

FLOYD, DR. BARRY N(EIL), b. London, Eng, June 29, 25; m. 53; c. 5. GEOGRAPHY. B.A, Cambridge, 49, M.A, 53; M.A, Minnesota, 51; Ph.D, Syracuse, 59. Instr. geog. & geol, Col. of Wooster, 51-55; land develop. officer, Dept. Native Agr, South. Rhodesia, 57-58; asst. prof. GEOG, Dartmouth Col, 59-61; Mich. State, 61-64; Nigeria, 64-66; HEAD DEPT, UNIV. WEST INDIES, 66- R.A.F, 43-47, Flight Lt. Am. Geog. Soc; Asn. Am. Geog; African Studies Asn. West Indies; problems of agricultural land use in the tropics, particularly Africa. Publ: Changing patterns of African land use in Southern Rhodesia; Eastern Nigeria: a geographic review. Address: Dept. of Geography, University of the West Indies, Mona, Kingston 7, Jamaica.

FLOYD, PROF. JOE SUMMERS, JR, Finance, see 10th ed, Soc. & Behav. Vols, deceased 66.

FLOYD, DR. JOHN EARL, b. Moose Jaw, Sask, May 6, 37; m. 59; c. 2. ECONOMICS. B.Comm, Saskatchewan, 59; M.A, Chicago, 62, Ph.D.(econ), 64. Asst. prof. ECON, WASHINGTON (SEATTLE), 62-66, ASSOC. PROF, 66- Econ. Asn. Agricultural economics; economic theory; international economics, especially the monetary theory of international trade. Publ: The overvaluation of the dollar: a note on the international price mechanism, Am. Econ. Rev, 3/65; Effects of farm price supports on returns to land and labor, J. Polit. Econ, 4/67. Address: Dept. of Economics, University of Washington, Seattle, Wash. 98105.

FLOYD, PROF. R(OY) F, Econ, see 10th ed, Soc. & Behav. Vols.

FLUBACHER, PROF. JOSEPH F(RANCIS), b. Philadelphia, Pa. Jan. 4, 14. ECONOMICS. A.B, La Salle Col, 35; A.M, Temple, 38, Ed.D, 48. Secy. to pres, LA SALLE COL, 36-38, instr. ECON, 38-40, asst. prof, 40-43, assoc. prof, 43-48, PROF, 48- Lindback distinguished teaching award, 61; La Salle Col. centennial medal, 63. Econ. Asn; Asn. Evolutionary Econ. Theory and history of theory; relationship between ethics and economics. Publ: Concept of ethics in the history of economics. Address: Dept. of Economics, La Salle College, Philadelphia, Pa. 19141.

FLUEGEL, PROF. EDNA R(OSE), b. Wilkes-Barre, Pa, Mar. 4, 12. POLITICAL SCIENCE. A.B, Marywood Col, 33; scholar. & M.A, Duke, 36, Ph.D. (polit. sci), 38; fel, Brookings Inst, 37-38. Asst. supvr, State Merit Exam. Prog, N.C, 38-39; asst. prof. polit. sci, Col. of St. Catherine, 39-42; for. affairs specialist, U.S. Dept. State, 42-48; assoc. prof. POLIT. SCI, Gannon Col, 48-49; PROF. & CHMN. DEPT, TRINITY COL.(D.C), 49- Foreign affairs specialist, UN conf, Dumbarton Oaks, San Francisco & London, 44-46; mem. staff, postwar policy prep, U.S. Dept. State; Sloan Found. fel, Chicago, 39; fel, World Conf. Int. Polit. Sci. Asn, Brussels, 67. For. policy consult, Senate Judiciary Cmt, 51, 53-56. Polit. Sci. Asn. Foreign policy; political theory; world communism. Publ: Korean war report; co-auth, Postwar foreign policy preparation; Soviet treaty violations. Address: Dept. of Political Science, Trinity College, Washington, D.C. 20017.

FLUMIANI, DR. C(ARLO) M(ARIA), b. Trieste, Italy, Aug. 15, 11; nat; m. 37; c. 2. ECONOMICS. Ph.D, Milan, 35. Fel, London Sch. Econ, 36; fel. from Harvard, France, 38; asst. prof. polit. sci. & chmn. dept, Santa Clara, 46-53; dean sch. bus. admin, Col. St. Joseph, 53-56; ASSOC. PROF. FINANCE, col. bus. admin, Boston Col, 56-66; WEST. NEW ENG. COL, 66- Consult, inst. econ. & financial res, Newton Center, 55-; Latin Am. Adv. Serv, 59-Econ. Asn; Finance Asn. Originator of the cylinder theory for investment measurement and anticipation. Publ: Cylinder theory; Speculative significance of the inner action of the market; Hidden and unknown life of stock market syndicates. Address: Dept. of Finance, Western New England College, Springfield, Mass. 01119.

FLUNO, PROF. ROBERT Y(OUNGER), b. Appleton, Wis, Nov. 27, 16; m. 44. POLITICAL SCIENCE. A.B, Rollins Col, 38; Ph.D, Minnesota, 52. Assoc. prof. POLIT. SCI, WHITMAN COL, 52-56, PROF, 56-, CHMN. DIV. SOC. SCI, 66- U.S.N, 42-46, Lt. Polit. Sci. Asn; Acad. Polit. Sci. Party and pressure group politics; constitutional law. Publ: Co-auth, American problem of government; auth, Power, plutonium and politics, Prentice-Hall, 66; The group case study method in political education, Sch. & Soc, 3/67. Address: Dept. of Political Science, Whitman College, Walla Walla, Wash. 99362.

FLYNN, DR. FRANK J, b. Jackman, Maine, May 27, 23; m. 53; c. 4. INTERNATIONAL LAW & RELATIONS. B.S, New Hampshire, 50; J.D, Stetson, 53; LL.M, McGill, 56; M.A, Boston, 61. Consult. in law, Montreal, Can, 53-55; Rome, Italy, 55-56; mem. faculty int. law, U.S. Naval War Col, U.S. Navy, 57-59, head aviation & space law, Dept. Navy, D.C, 59-60, spec. asst, Judge Advocate Gen. of Navy, 60-62; Navy fel. mil. & nat. security policies, Georgetown, 62-64, legal officer for comdr. cruisers & destroyers, U.S. Atlantic Fleet, 64-66; head dept. legal res, U.S. Naval Justice Sch, 66-67;

MEM. FACULTY INT. AFFAIRS, U.S. NAVAL WAR COL, 67- Ed-in-chief, Navy Dept. Law Rev, 60-62. Legal mem, President's Air Coord. Cmt, D.C, 59-60; Dept. State-Dept. Defense negotiating team, U.S. For. Bases, 59-61; Dept. Defense-Fed. Aviation Agency Adv. Group, 60-62. Judge Advocate Gen.C, U.S.N, 57-67, Comdr. Fed. Bar. Asn.(v.pres, 67-); Soc. Int. Law; Polit. Sci. Asn; Bar. Asn. Political and legal aspects of regime of high seas, air and outer space; arms control; laws of war; strategy and ethics, civil-military relationships. Address: 80 Kay St, Newport, R.I. 02840.

FLYNN, DR. JAMES JOSEPH, b. Jamestown, N.Dak, Feb. 11, 24; m. 49; c. 6. PSYCHOLOGY. Gonzaga, 48; fel, Loyola (Ill), 48-52, M.A, 52, Ph.D, 54. Clin. psychologist, guid. center, Loyola (Ill), 48-51; instr. psychol, Gonzaga, 52-53; clin. psychologist, East. State Hosp, 53-67, supv. psychologist, 56-67; PSYCHOLOGIST, 67- Assoc. prof, exten. sch, Wash. State Col, 56-58; vis. lectr, Whitworth Col, 60-; Gonzaga, 60- Consult, Catholic Charities, Inc, Wash, 54- U.S.N, 43-49, Lt.(jg). Psychol. Asn. Subjective, impressionistic, and intuitive methods of assaying and modifying behavior, especially increasing the range, depth and intensity of possible behavior. Address: 3705 W. Beacon, Spokane, Wash. 99208.

FLYNN, DR. JOHN P(ATRICK), b. Superior, Wis, May 25, 14; m. 45; c. 3. PSYCHOLOGY. Ph.D.(psychol), Columbia, 43. Spec. res. assoc, Harvard, 43-45; staff psychologist, Haskins Labs, N.Y, 45-46; head psychol. & statist. div, Naval Med. Res. Inst, 46-54; mem. staff, Am. Psychol. Asn, 54; res. asst. psychiat, SCH. MED, YALE, 54-56, res. assoc, 56-60, ASSOC. PROF. psychol, 60-65, PHYSIOL. (PSYCHIAT), 65- Psychol. Asn. Effects of brain stimulation and ablation on behavior; audition. Address: Dept. of Psychiatry, Yale University School of Medicine, 34 Park St, New Haven, Conn. 06519.

FLYNN, DR. JOHN T(OMB), b. Corning, N.Y, May 29, 32; m. 51. EDUCATIONAL PSYCHOLOGY. B.S, State Univ. N.Y. Col. Cortland, 60; M.A, Indiana, 62, Ed.D.(ed. psychol), 63. Res. assoc. ed. res, Indiana, 60-63; ASSOC. PROF. ED. PSYCHOL, CONNECTICUT, 63- Consult. psychologist, 65- U.S.A.F, 50-55, Sgt. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Personality correlates of human learning; instructional technology; assessment of human behavior. Publ: The divasumma 24; a program, Olivetti-Underwood Corp, spring 64; Programmed guide in measurement, W.C. Brown, 10/66; co-auth, Assessing behavior: educational and psychological measurement, Addison-Wesley, 4/67. Address: Dept. of Educational Psychology, University of Connecticut, Storrs, Conn. 06268.

FLYNN, PROF. MURRAY C(ARLYLE), Econ, see 10th ed, Soc. & Behav. Vols.

FLYNN, DR. WILLIAM F(RANCIS), b. Garfield Heights, Ohio, Sept. 17, 29. CLINICAL PSYCHOLOGY. B.S.S. John Carroll, 53; M.A, Catholic Univ, 57; Ph.D.(psychol), George Washington, 61. Tech. asst, dept. psychol, Catholic Univ, 55-56, clin. psychol. trainee, child center, 56-57, res. asst, dept. psychol, 58-59; clin. psychol. intern, Catholic Child Guid. Clin, Ohio, 57-58; CLIN. PSYCHOLOGIST, Huron County Guid. Center, Ohio, 59; Woodside Receiving Hosp, 60-61; VET. ADMIN. HOSP, BRECKSVILLE, 61- Med.C, U.S.A, 53-55. Psychol. Asn. Diagnosis; behavior therapy; projective tests. Publ: How biased was this sample?, Vet. Admin. Newsletter Res. Psychol, 11/66; co-auth, Sociometric choice in a mental hospital population, J. Health & Human Behav, winter 66. Address: 3445 Meadow Gateway, Broadview Heights, Ohio 44141.

FLYNN, DR. WILLIAM J(OSEPH), b. Cleveland, Ohio, Sept. 3, 17; m. 48; c. 1. PSYCHOLOGY. A.B, Fenn Col, 41; M.A, Wayne, 48; Ph.D.(indust. psychol), Western Reserve, 54. Personnel technician, Kroger Co, 48-51; res. assoc, Personnel Res. Center, 51-52; Personnel Res. Inst, 52-54; indust. psychologist, Gen. Motors Inst, 54-56; MGR. PERSONNEL ADMIN. & RES, EUCLID DIV, GEN. MOTORS CORP, 56- U.S.A.A.F, 42-46. Psychol. Asn; Psychomet. Soc. Management selection and development; criterion research; interviewing. Address: 23 Plymouth Dr, Hudson, Ohio 44236.

FOA, DR. BRUNO, b. Naples, Italy, Dec. 8, 05; nat; m. 37; c. 2. ECONOMICS. Ph.D, Naples, 26. Prof. econ, Univ. Bari, 33-36; Nat. Inst. Econ. & Soc. Res. fel, London, 39; Rockefeller fel, Princeton, 40-41; dir, Bur. Latin Am. Res, Wash, D.C, 41-43; economist, div. res. & statist, Bd. Gov, Fed. Reserve Syst, 44-45; CONSULT. ECONOMIST, 45- Vis. prof, New Sch. Soc. Res, 47-48; vis. lectr, Yale, 51-52; vis. prof, grad. sch, Pennsylvania, 56-57. Consult, UN, 59-60. Econ. Asn. Central banking and monetary theory; international economics; foreign investment. Publ: Monetary reconstruction in Italy; America picks up the check; Economic trends in liberated Europe, For. Policy Asn. Reps. Address: 630 Park Ave, New York, N.Y. 10021.

FOA, PROF. URIEL G, b. Parma, Italy, Feb. 25, 16; m. 62; c. 4. PSYCHOLOGY. Dr. Jur, Parma, 39; Ph.D.(soc. psychol), Hebrew Univ, Israel, 47. Exec. dir, Israel Inst. Appl. Soc. Res, Jerusalem, 47-68; head surv. br, psychol. res. unit, Israel Defense Army, 48-49; assoc. prof. psychol. & acting head dept, Bar-Ilan Univ, Israel, 59-61; UNESCO specialist soc. res, Bangkok, Thailand, 62; vis. prof. psychol, Illinois, Urbana, 65-67; PROF. PSYCHOL. & SOC. RES, MISSOURI, COLUMBIA, 67- Vis. summer prof, Stanford, 62. Mem. res. cmt, Israel Mgt. Center, 60-62; chmn. cmt. personnel selection, Israel Civil Serv. Cmn, 62-65. Am. Acad. Polit. & Soc. Sci; Am. Psychol. Asn; Am. Sociol. Asn; Indust. Rels. Res. Asn; European Asn. Adv. Exp. Soc. Psychol; Israel Psychol. Asn. Identification and analysis of personality and interpersonal structure across cultures, especially their development in children and dynamics in treatment and training. Publ: Convergences in the analysis of the structure of interpersonal behavior, 68:341-353 & New developments in facet design and analysis, 72:272-274, Psychol. Rev; Differentiation in cross-cultural communication, In: Communication: concepts and perspectives, Spartan, 67. Address: Dept. of Psychology, University of Missouri, Columbia, Mo. 65201.

FOERY, RAYMOND W(ILBUR), b. Philadelphia, Pa, Sept. 25, 00. POLITICAL SCIENCE. B.S, Pennsylvania, 22; A.M, Columbia, 27. Instr. POLIT. SCI, PENNSYLVANIA, 27-54, ASSOC, 55-, asst. dir. admissions, 30-44, vet. counsr, 44-48, acting dir. col. collateral courses & summer sch, 49-51. Polit. Sci. Asn; Econ. Asn. Public finance; American government. Address: 6 E. Mercer Ave, Llanerch, Havertown P.O, Pa. 19083.

FOGARTY, MARGARET MARY, b. New Haven, Conn, Feb. 7, 09. PSYCHOLOGY. B.Ed, New Britain State Teachers Col, 39; M.A, Yale, 44. Teacher, WEST HAVEN SCH. SYST, 28-52, psychol. exam, 52-55, SCH. PSYCHOLOGIST, 55- Psychol. Asn; Nat. Ed. Asn; Int. Coun. Psychol. School psychology, especially study and evaluation of individual child and planning for children with special needs. Publ: Ed, A study of role and functions of school psychological personnel working in the public schools of Connecticut, Conn. Asn. Sch. Psychol. Personnel, 65. Address: Board of Education, 1 Circle St, West Haven, Conn. 06516.

FOGEL, DR. JOSEPH, b. New York, N.Y, July 28, 28; m. 51; c. 3. CLINICAL PSYCHOLOGY. A.B. & B.S, Miami (Fla), 52, M.S, 53; fel, Fla. State, 54, Ph.D, 57. Clin. psychol. intern, Vet. Admin. Hosp, Biloxi & Gulfport, Miss, 55-57; SCH. PSYCHOLOGIST, DADE CO. BD. PUB. INSTR, 57- Med.C, 47-48, Sgt. Psychol. Asn. Identification of brain damage in children; children's readiness to begin school; psychotherapy. Address: 12405 S.W. 93rd Ave, Miami, Fla. 33156.

FOGEL, DR. L(AWRENCE) J, Elec. Eng, Biotech, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

FOGEL, DR. MARGUERITE S(TONE), b. Tenn, Sept. 12, 12; m. 52; c. 2. COUNSELING. B.A, Columbia Union Col, 37; M.A, Maryland, 43, Ph.D.(human develop. ed), 53; M.S.S.W, Catholic Univ, 47. Teacher & counsr, Phila. Acad, 43-44; case worker, Soc. Serv. League, Montgomery County, Md, 44-48, asst. & vis. teacher, Bd. Ed, 50-52; psychiat. soc. worker, Arlington County Guid. Center, Va, 48-50; private practice, 54-; lectr. health ed, Mt. Vernon Jr. Col, 66-67. Psychol. Asn; Asn. Marriage Counsr. Family relations and clinical counseling. Publ: Parental attitude to retardation, Am. J. Ment. Deficiency. Address: 2948 Brandywine St. N.W, Washington, D.C. 20008.

FOGEL, DR. MAX LEONARD, b. Des Moines, Iowa, Mar. 19, 34; m. 57; c. 4. PSYCHOLOGY. B.A, Iowa, 56, U.S. Pub. Health Serv. grant, 58-60, M.A, 59, Ph.D.(psychol), 60. Asst. psychol, Iowa, 56-60, res. assoc, 60-62; clin. psychologist, Vet. Admin. Hosp, Iowa City, Iowa, 62-63; SR. RES. SCIENTIST, EAST. PA. PSYCHIAT. INST, 63-; Vis. asst. prof, Parsons Col, 61-63; assoc, Pennsylvania, 64-; res. psychologist, Vet. Admin. Hosp, Philadelphia, 66-; res. dir, N.Am. Mensa Soc, 67- Psychol. Asn; Psychonomic Soc; Int. Neuropsychol. Soc. Relationships between cerebral pathology and behavior; emotional states and endocrine functions; creativity, personality and intelligence; effects of motivational factors and denial of illness on progress in physical rehabilitation; teaching machines. Publ: Gerstmann syndrome and the parietal symptom complex, Psychol. Record, 61; The intelligence quotient as an index of brain damage, Am. J. Orthopsychiat. 64; Picture interpretation in brain damaged patients, Cortex, 67. Address: Eastern Pennsylvania Psychiatric Institute, Henry Ave. & Abbottsford Rd, Philadelphia, Pa. 19129.

FOGEL, PROF. ROBERT W(ILLIAM), b. New York, N.Y, July 1, 26; m. 49; c. 2. ECONOMICS. A.B, Cornell, 48; Gilman fel, Hopkins, 57-59, Soc. Sci. Res. Coun. fel, 60, Ph.D.(econ), 63; A.M, Columbia, 60. Instr. statist, Hopkins, 58-59; asst. prof. ECON, Rochester, 60-64; assoc. prof, CHICAGO, 64-65, PROF, 65-, Ford Found. vis. res. prof, 63-64. Res. grants, Soc. Sci. Res. Coun, 66-67 & Nat. Sci. Found, 67-69. Chmn. cmt. math. & statist. methods in hist, Math. Soc. Sci. Bd, 65- Am. Econ. Asn; Econ. Hist. Asn; Agr. Hist. Soc; Economet. Soc; Econ. Hist. Soc, Brit; Royal Econ. Soc. Application of mathematics and statistics to the analysis of economic history. Publ: The Union Pacific Railroad: a case in premature enterprise, 60 & Railroads and American economic growth: essays in econometric history, 64, Johns Hopkins; The specification problem in economic history, J. Econ. Hist, 9/67. Address: Dept. of Economics, University of Chicago, Chicago, Ill. 60637.

FOGELSON, DR. RAYMOND D, b. Red Bank, N.J, Aug. 23, 33. ANTHROPOLOGY. B.A, Wesleyan, 55; M.A, Pennsylvania, 58, East. Pa. Psychiat. Inst. fel, 60-62, Ph.D.(anthrop), 62. Asst. prof. ANTHROP, Washington (Seattle), 62-65; CHICAGO, 65-67, ASSOC. PROF, 67- Fel. Anthrop. Asn.(book rev. ed, 66-); Ethnol. Asn. American Indian ethnology; primitive religion; psychological anthropology; history of anthropology. Publ: Change, persistance, and accommodation in Cherokee medico-magical beliefs, Smithsonian, 61; co-auth, The identity struggle, article, Harper, 65; auth, Psychological theories of Windigo psychosis, article, Macmillan, 65. Address: Dept. of Anthropology, University of Chicago, Chicago, Ill. 60637.

FOGERTY, PROF. ROBERT P(AUL), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FOLADARE, PROF. IRVING SEYMOUR, b. New York, N.Y, Feb. 28, 29; m. 51; c. 3. SOCIOLOGY. A.B, Georgia, 51; Ph.D.(sociol), Columbia, 66. Personnel asst, nat. aniline div, Allied Chem. & Dye Corp, 51-53; res. asst, Alfred Politz Res, Inc, 55-57; instr. SOCIOL, State Univ. N.Y. Col. Plattsburgh, 57-58; asst. prof, STATE UNIV. N.Y. COL. BUFFALO, 58-61, assoc. prof, 61-67, PROF. & CHMN. DEPT, 67- State Univ. N.Y. faculty fel, 67. U.S.A, 46-47. Sociol. Asn; Acad. Polit. & Soc. Sci. Political behavior, particularly voter interaction; status and role theory. Address: 301 Willow Ridge Dr, Tonawanda, N.Y. 14150.

FOLEY, ALBERT S(IDNEY), S.J, b. New Orleans, La, Nov. 6, 12. SOCIOLOGY, ANTHROPOLOGY. A.B, St. Louis, 35, M.A, 36 & 48, S.T.L, 43; Ph.D, North Carolina, 50. Instr. langs, Spring Hill Col, 37-39, sociol. & philos, 44-47; SOCIOL, St. Louis, 50-52; asst. prof, SPRING HILL COL, 53-55, PROF, 55-, HEAD DEPT, 61- Carnegie fel, Michigan, 52-53; McAuley lectr, St. Joseph Col.(Conn), 55; summer vis. lectr, grad. sch, Fordham, 61. Chmn, Ala. adv. cmt, U.S. Civil Rights Cmn, 61- U.S.A, 42-46, Chaplain. Fel. Sociol. Asn. Race, intergroup, inter-religious and minority relations; group dynamics. Publ: St. Regis: social crusader; Bishop Healy: beloved outcaste; God's men of color. Address: Dept. of Sociology, Spring Hill College, Mobile, Ala. 36608.

FOLEY, SISTER ANDRENE, C.S.J, b. Norwood, Mass, Sept. 10, 27. CLINICAL PSYCHOLOGY. A.B, Regis Col.(Mass), 57; M.A, Catholic Univ, 61, Ph.D.(clin. psychol), 64; res. grant, St. Elizabeths Hosp, Wash, D.C, 62-64. Teacher, parochial schs, Mass, 48-59; ASST. PROF. PSYCHOL, REGIS COL.(MASS), 59- Consult, Boston Sch. Deaf, Randolph, Mass, 65-67. Psychol. Asn. Effect of motivation on cognitive processes in schizophrenics and normals. Address: Dept. of Psychology, Regis College, Weston, Mass. 02193.

FOLEY, DR. ANDREW W, Psychol, see 10th ed, Soc. & Behav. Vols. Latest known address: 1448 Oleander St, Medford, Ore. 97501.

FOLEY, PROF. DONALD L(ESLIE), b. Hamilton, N.Y, Aug. 22, 16; m. 41; c. 4. URBAN PLANNING. A.B, Colgate, 38; A.M, Chicago, 42; Ph.D, Washington (St. Louis), 48. Asst. prof. sociol, Rochester, 48-53; lectr. city planning, CALIFORNIA, BERKELEY, 53-55, assoc. prof. CITY PLANNING & ARCHIT, 55-63, PROF, 63-, CHMN. DEPT. CITY & REGIONAL PLANNING, 64- U.S.N.R, 42-46. Fel. Sociol. Asn; Inst. Planners; Regional Sci. Asn. Urban sociology. Publ: Controlling London's growth, Univ. California, 63; Use of local facilities in a metropolis; Neighbors or urbanites. Address: Dept. of City & Regional Planning, University of California, Berkeley, Calif. 94720.

FOLEY, ERNEST B(ARTHOLOMEW), S.J, Econ, see 10th ed, Soc. & Behav. Vols.

FOLEY, DR. JEANNE M, b. Milwaukee, Wis, Nov. 11, 21; div. CLINICAL PSYCHOLOGY. B.A, Chicago, 45; U.S. Pub. Health fel, Northwestern, 58-59, M.A, 59, Ph.D.(psychol), 62; Inst. Psychiat. & Psychosom. Res. & Training fel, Michael Reese Hosp, Chicago, 59-60. Voc. counsr, Human Eng. Lab, Chicago, 46-47, mgr. Chicago off, 49-57; v.pres, Human Eng. Lab, N.J. Corp. & Johnson O'Connor Res. Found, New York Corp, 55-57; student counsr, Illinois, Chicago, 60-61; res. assoc. PSYCHOL, Children's Mem. Hosp, Chicago, 62-66; ASST. PROF, med. sch, Northwestern, 64-66; LOYOLA (ILL), 66- Psychol. Asn. Child development, especially parent-child relationships, personality and reactions to stress. Publ: Co-auth, Psychological responses of children to hospitalization and illness: a review of the literature, C.C. Thomas, 65; Effect of mother-child separation and birth order on young children's responses to two potentially stressful situations, J. Personality & Soc. Psychol, 67; auth, Some psychological aspects of hospitalization, In: Management of emotional disorders in pediatric practice, Year Book, 67. Address: Dept. of Psychology, Loyola University, 6525 N. Sheridan Rd, Chicago, Ill. 60626.

FOLEY, DR. JOAN E, b. Sydney, Australia, May 31, 36; m. 64; c. 1. PSYCHOLOGY. B.A, Sydney, 57, Ph.D.(psychol), 60. Scientific officer, Defence Res. Med. Labs, Toronto, Ont, 60-62; spec. lectr. PSYCHOL, TORONTO, 63, asst. prof, 63-65, ASSOC. PROF, 65- Am. Psychol. Asn; Australian Psychol. Asn. Learning theory, especially in context of classical conditioning; perceptual learning in the context of normal development, particularly with respect to adaptations to distortions in the normal adult. Publ: All-or-none versus incremental learning & Contiguity and reinforcement in relation to CS-UCS intervals in classical aversive conditioning, Psychol. Rev, 62; co-auth, A study of alternation of normal and distorted vision, Can. J. Psychol, 67. Address: Dept. of Psychology, University of Toronto, Toronto, Ont, Can.

FOLEY, DR. JOHN P(ORTER), JR, b. Bloomington, Ind, May 16, 10; m. 33. PSYCHOLOGY. A.B, Indiana, 31; A.M, Columbia, 32, Ph.D.(psychol), 35. Instr. psychol, George Washington, 36-37, asst. prof. & dir. exp. lab, 37-44; staff psychologist, Psychol. Corp, 44-45, assoc. dir. indust. div, 45-50, dir, 50-56, v.pres, 53-56; PRES, J.P. FOLEY & CO, INC, 56- Mem. bd. dirs, J.P. Foley & Co, Inc, Rogers Corp, Hercules Packing Corp, Exchange Capital Corp, Amicon Corp. & Shoreham House, Inc. Consult, Capital Transit Co, 43-44. Fel. AAAS; fel. Psychol. Asn; Anthrop. Asn; Ethnol. Soc. Experimental and systematic psychology; individual and group differences; management. Publ: Co-auth, Differential psychology & Human relations and the foreman; co-auth, Mediated generalization and the interpretation of verbal behavior, Psychol. Rev. Address: J.P. Foley & Co, Inc, 50 E. 42nd St, New York, N.Y. 10017.

FOLGER, DR. JOHN K(ENNETH), b. Atlanta, Ga, Mar. 13, 24; m. 47; c. 5. SOCIOLOGY. A.B, Emory, 43; M.A, North Carolina, 50, Ph.D.(sociol), 51. Chief tech. serv, human resources res. inst, Maxwell Air Force Base, Ala, 51-53; res. assoc, South. Regional Ed. Bd, 53-57, assoc. dir. res, 57-61; dean grad. sch, Fla. State, 61-68; DIR, TENN. CMN. HIGHER ED, 68- Dir. cmn. human resources, Nat. Acad. Sci, 65-67. Consult, South. Regional Ed. Bd, 61-; Nat. Adv. Cmn. Selective Serv, 66. Mem. tech. adv. cmt, U.S. Census Pop, 57-; exec. cmt, Coun. Grad. Schs, 63-65. U.S.N.R, 42-54, Lt. Fel. Sociol. Asn; Statist. Asn; Pop. Asn; Int. Union Sci. Study Pop. Population analysis and projections; migration; higher education as a social institution; analysis of demographic data; manpower and human resources research: education and the social structure. Publ: Co-auth, Education of the American population, U.S. Govt. Printing Off, 67; auth, Manpower planning in the U.S, Int. Yearbook of Ed, 67; The balance between supply and demand for college graduates, J. Human Resources, 67. Address: 5424 Camelot Rd, Brentwood, Tenn. 37027.

FOLK, DR. HUGH W(ILDS), b. Atlanta, Ga, June 16, 30; m. 58; c. 1. ECONOMICS. B.S, Ga. Inst. Tech, 55, M.S, 57; Duke fel, Duke, 57-60, Ph.D. (econ), 60. Lectr. ECON, California, Berkeley, 60-63; asst. prof, Washington (St. Louis), 63-65; Fulbright sr. lectr, Essex, 65-66; ASSOC. PROF. ECON, LABOR & INDUST. RELS, ILLINOIS, 66- Consult, President's Cmt. Corp. Pension Funds & Calif. Welfare Study Cmn, 62-63; U.S. Welfare Admin. & U.S. Soc. Security Admin, 63-65; Int. Manpower Inst, 64-65; Orgn. Econ. Coop. & Develop, 65-66. U.S.M.C, 52-54. Econ. Asn. Income distribution, consumption and saving; welfare economics; public policy; research on the shortage of scientists and engineers and on pensions for defense workers. Publ: Private pensions and manpower policy, Bur. Labor Statist, 63: co-auth, Ambiguity of the substitution effect, Economica, 64; Labor market adjustments by unemployed older workers, In: Employment policy and labor market, Univ. California, 65. Address: Institute of Labor & Industrial Relations, University of Illinois, Champaign, Ill. 61822.

FOLKMAN, DR. W(ILLIAM) S(TEWART), b, Ogden, Utah, Aug. 17, 17; m. 49; c. 3. RURAL SOCIOLOGY. B.S, Utah State Agr. Col, 40; M.S, Utah, 49; Ph.D.(rural sociol), Cornell, 52. From asst. to assoc. prof. rural sociol, Arkansas, 52-59; vis. prof, N.C. State Col, 59-60; with farm pop. br, econ. res. serv, U.S. Dept. Agr, 60-62; SOC. SCI. ANALYST, PAC. SOUTHWEST FOREST & RANGE EXP. STA, U.S. FOREST SERV, 62- Summer vis. prof, Mich. State, 58. Sig.C, 41-46, 1st Lt. Sociol. Asn; Rural Sociol. Soc. Community organization; farmers' cooperatives; group dynamics. Address: Pacific Southwest Forest & Range Experiment Station, U.S. Forest Service, Berkeley, Calif. 94701.

FOLLETTIE, DR. JOSEPH F(RANK), b. Angels Camp, Calif, June 22, 25; m; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Chico State Col, 50; M.S, Oregon, 51; Ph.D.(psychol), Tulane, 61. Asst. training res, HumRRO, 55-56, res. assoc, 56-57, res. scientist, 57-59, sr. scientist, 59-65, sr. staff scientist, 65-67; ELEMENT HEAD INSTRUCTIONAL DESIGN, SOUTHWEST REGIONAL LAB. ED. RES. & DEVELOP, 67- U.S.N, 42-46. Psychol. Asn. Description of elements of syntactical complexity of English and the study of effects of syntactic complexity upon human learning; reading research; concept formation in children. Publ: All in house. Address: 3600 Rose Circle, Seal Beach, Calif. 90740.

FOLLEY, DR. JOHN D(AVID), JR, b. Midland Park, N.J, Nov. 18, 26; m. 52; c. 3. PSYCHOLOGY. M.E, Stevens Inst. Tech, 50; M.S, Pittsburgh, 53; Ph.D, Carnegie Inst, 61. Res. assoc. eng. psychol. & training, Am. Inst. Res, 50-58, dir. eng. psychol. prog, 58-61; PRES, APPL. SCI. ASSOC, INC, 62- U.S.N, 44-46. Human Factors Soc; Psychol. Asn. Engineering psychology; optimization of man-machine systems for operation and maintenance; training and aids to job performance. Address: 1225 Woodhill Dr, Gibsonia, Pa. 15044.

FOLSE, PROF. CLINTON L(OUIS), b. St. James Parish, La, Sept. 5, 08; m. 35; c. 1. RURAL SOCIOLOGY. B.S, La. State, 32, M.S, 35, Rockefeller fel, 37-39, 40, Ph.D, 53. Assoc. prof. rural sociol, Miss. State Col, 39-40; Va. Polytech, 40-41, 45-46; prof. sociol. & soc. sci, Union Col.(Ky), 47-48; asst. prof. RURAL SOCIOL, ILLINOIS, 50-52, assoc. prof, 53-60, PROF, 60- U.S.A.A.F, 42-45, Maj. Sociol. Asn; Rural Sociol. Soc; Pop. Asn. Population and demography; rural community organization, development and improvement. Publ: Variations in rates of population reproduction in Illinois, 1940, Ill. Farm Econ; Rural sociological trends in the United States, In: Encyclopedia Britannica; Concept and law of human progress, Soc. Forces. Address: 1709 W. White St, Champaign, Ill. 61822.

FOLSOM, PROF. JAMES MACK, Econ, see 10th ed, Soc. & Behav. Vols.

FOLTIN, PROF. EDGAR M, b. Brixlegg, Austria, July 26, 97; nat; m. 41. PSYCHOLOGY. J.U.Dr, Leopold-Frazens Univ, Austria, 22; Dr.habil, Innsbruck, 25. Rockefeller Found. fel, 27-28; asst. prof, Freiburg, 28-29; prof. law & dean law sch, Prague, 29-38; prof. psychol. & law, Col. of William & Mary, 39-43, PROF. PSYCHOL. & HEAD DEPT, 43-49; CHATHAM COL, 49- Psychol. Asn. Abnormal and experimental psychology; psychological statistics. Publ: Amerikanisches gefangniswesen; Der gedanke der Zumutbarkeit; Personality traits of psychotic patients as revealed in their spontaneous paintings. Address: Dept. of Psychology, Chatham College, Pittsburgh, Pa. 15232.

FOLTINY, DR. STEPHEN, b. Nyiregyhaza, Hungary, July 20, 18; m. 49; c. 7. ARCHAEOLOGY. Ph.D.(archaeol), Szeged, 42; Collegium Hungaricum, Berlin, Germany, 43; Ph.D.(prehist. of Europe), Vienna, 50. Asst, inst. archaeol, Szeged, 40-45; sci. asst, inst. prehist, Vienna, 46-48; res. asst. & librn, Wenner-Gren Found. Anthrop. Res, 52-55; res. asst. ARCHAEOL, SCH. HIST. STUDIES, INST. ADV. STUDY, PRINCETON, 55-61, RES. ASSOC, 61- Res. grants, Wenner-Gren Found. Anthrop. Res, 58-59, Am. Philos. Soc. & Am. Coun. Learned Socs, 60 & 65- Nat. Sci. Found, 61 & 62-64, 67-69, Smithsonian For. Currency Prog, 66-70; Austrian fel. prehist. & protohist. Cor. mem, German Archaeol. Inst, 65- Fel. Anthrop. Asn; Archaeol. Inst; Anthrop. Soc. Vienna. Bronze and Early Iron Age chronology of central and southeastern Europe; cultural interrelations between central Europe, Greece and Italy during the Bronze and Early Iron Ages. Publ: The ivory horse bits of Homer and the bone bits of reality, Bonner Jahrbücher, 67; The Hungarian Archaeological collection of the American Museum of Natural History, Uralic & Altaic Studies, 68; Late Bronze Age pottery in the southeastern parts of the Carpathian Basin, APULUM, Alba Iulia, Roumania, 67. Address: School of Historical Studies, Institute for Advanced Study, Princeton, N.J. 08540.

FOLTMAN, PROF. FELICIAN F, b. U.S, July 31, 18; m. 51; c. 3. INDUSTRIAL RELATIONS. B.S, State Univ. N.Y. Col. Ed.(Oswego), 40; M.S, Cornell, 47, Ph.D, 50. Asst, N.Y. STATE SCH. INDUST. & LABOR RELS, CORNELL, 48-49, placement supvr, 49-52, assoc. prof. HUMAN RESOURCES & ADMIN, 52-67, PROF, 67- Skilled manpower and apprentice training management; executive and supervisory development; industrial training; organizational behavior. Address: 140 Northview Rd, Ithaca, N.Y. 14850.

FOLTZ, DR. WILLIAM J(AY), b. Mt. Vernon, N.Y, Jan. 24, 36; m. 58; c. 2. POLITICAL SCIENCE. A.B, Princeton, 57; M.A, Yale, 58, Ford Found. fel, 60-61, Ph.D.(int. rels), 63. Acting instr. POLIT. SCI, YALE, 62-63, asst. prof, 63-67, ASSOC. PROF, 67- Vis. asst. prof, Wesleyan, 64; Guggenheim fel, 64. Consult, Rand Corp, 62-; State Dept, 67- Fel. African Studies Asn; Polit. Sci. Asn. African politics; comparative government; international relations. Publ: Co-auth, Nation-building, Atherton, 63; auth, From French West Africa to the Mali Federation, Yale, 65. Address: Dept. of Political Science, Yale University, New Haven, Conn. 06520.

FONAROFF, PROF. LEONARD SCHUYLER, b. Philadelphia, Pa, Nov. 30, 28; m. 51. ANTHROPOLOGY, GEOGRAPHY. B.A, Arizona, 55; Ph.D.(anthrop. geog), Hopkins, 61. Instr. anthrop, McCoy Col, Hopkins, 59-61, res. assoc. int. health, sch. hyg. & pub. health, 61-62, asst. prof. pub. health admin,

62-63, asst. prof. anthrop, McCoy Col, 61-63; ASSOC. PROF. GEOG, MARYLAND, 67- U.S.M.C, 46-48. AAAS; Soc. Appl. Anthrop. Asn; Geog. Soc. Anthropological investigations in Middle American; medical geography; applied anthropology; culture change; humid tropics as a habitat for men; biogeography. Publ: Conservation and stock reduction on the Navajo tribal range, Geog. Rev; Was Huntington right about human nutrition?, Annals Am. Asn. Geogr, 9/65; Historical geography of malaria risk in Trinidad, W. Indian Med. J, 3/68. Address: 6903 40th Ave, Hyattsville, Md. 20742.

FONCANNON, HOWARD F(RANK), b. South Bend, Ind, Apr. 27, 10; m. 32. LABOR ECONOMICS. B.S, West. Mich. Col, 33; M.A, Michigan, 41. Adminstr. officer qualifications & selection prog, U.S. Navy, 46-50; asst. dir. sci. manpower info, nat. sci. register, U.S. Off. Ed, 50-52; proj. dir. clearinghouse for sci. manpower info, Nat. Sci. Found, 52-59, asst. to assoc. dir. ed. & int. activities & spec. projs. officer, 59-66, coordinator For. sci. develop, 66; CONSULT. INT. SCI. ED, 67- Tech. writer int. sci. ed, UNESCO, Nat. Acad. Sci-Nat. Res. Coun. & AAAS, 67- U.S.N.R, 42-46, Lt. Comdr. Fel. AAAS. Technical education in the countries of the Far East, particularly of the Pacific area. Publ: Programs for the collection of scientific manpower information in the United States; Scientific personnel resources; co-auth, Classifications for surveys of highly trained personnel. Address: 3513 N. Dinwiddie St, Arlington, Va. 22207.

FONDA, DR. CHARLES P(ERCY), b. Pueblo, Colo, Dec. 29, 05; m. 33; c. 2. PSYCHOLOGY. B.S, Hopkins, 46, M.A, 47; Ph.D.(psychol), 50. Rehab. counsr, State Dept. Ed, Md, 46-48; clin. psychologist, Hopkins, 48-50; sr. clin. psychologist, Norwich State Hosp, 50-59; DIR. PSYCHOL. SERV. MANSFIELD TRAINING SCH, CONN. DEPT. HEALTH, 59- U.S.N, 43-46. Fel. Psychol. Asn; Orthopsychiat. Asn; fel. Asn. Ment. Deficiency; Soc. Res. Child Develop. Community mental health; clinical psychology; child development; mental retardation. Publ: Nature and meaning of the Rorschach White Space Response & co-auth, Reliability of psychiatric diagnoses, J. Abnorm. & Soc. Psychol; co-auth, Personality dynamics and auditory perceptual recognition, J. Personality. Address: P.O. Box 51, Mansfield Depot, Conn. 06251.

FONER, DR. PHILIP S(HELDON), Hist, Lit, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FONTANA, DR. ALAN F(RED), b. Quincy, Mass, Apr. 8, 36; m. 62; c. 3. PSYCHOLOGY. B.A, Amherst, 58; U.S. Publ. Health Serv. fel, Michigan, 59, Nat. Sci. Found. fel, 61, Nat. Inst. Ment. Health fel, 63, Ph.D.(psychol), 64. Res. assoc, Yale, 64-66; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, Wash, D.C, 66-67, WEST HAVEN, CONN, 67- Asst. prof, Yale, 67- Psychol. Asn. Goal attainment, impression management and institutional adaptation among psychiatric patients. Publ: Familial etiology of schizophrenia: is a scientific methodology possible?, Psychol. Bull, 66; co-auth, Presentation of self in mental illness, 68 & Self-presentation and the schizophrenic deficit, 68, J. Consult. Psychol. Address: Psychology Service, Veterans Administration Hospital, West Haven, Conn. 06516.

FONTANA, DR. BERNARD LEE, b. Oakland, Calif, Jan. 7, 31; m. 54; c. 2. ANTHROPOLOGY. A.B, California, Berkeley, 53; Wenner-Gren fel, Arizona, 59, Ph.D.(anthrop), 60. Field historian, UNIV. ARIZONA, 59-61, ETHNOLOGIST, ARIZ. STATE MUS, 61- Lectr, Arizona, 63-, prin. investr, Doris Duke Am. Indian Oral Hist. Proj, 67- U.S.A, 53-55, Sgt. Soc. Ethnohist.(pres, 65); Soc. Hist. Archaeol, 67; fel. Anthrop. Asn. Ethnology; ethnohistory; historical archaeology; Indians of the Southwest. Publ: Co-auth, Papago Indian pottery, Univ. Washington, 62; auth, Pioneers in ideas: three early Southwestern ethnologists, J. Ariz. Acad. Sci, 63; On the meaning of historic sites archaeology, Am. Antiq, 65. Address: Arizona State Museum, University of Arizona, Tucson, Ariz. 85721.

FONTERA, DR. RICHARD MARIO, b. Paris, France, July 18, 35; U.S. citizen; m. 58; c. 2. POLITICAL SCIENCE. B.A, Columbia, 56; M.A, N.Y. Univ, 58, Ph.D.(polit. sci), 64; London, 58-59. Instr. hist. polit. sci, Muskingum Col, 59-60, polit. sci, Whitman Col, 60-62; GS-12 soc. sci, U.S. Army Info. Sch, 62-63; vis. lectr. POLIT. SCI, Douglas Col, Rutgers, 63-64, asst. prof, 64-67; assoc. prof. WISCONSIN, GREEN BAY, 67-, DIR. SPEC. LEARNING PROGS, 68- Sr. Fulbright res. fel. polit. sci, India, 65-67. Consult, Agency Int. Develop, 67; N.Y. State Off. Ed. Asian Studies, 67; Nat. Defense Ed. Act Inst. Asian Studies, San Jose State Col, 67; Center Community Psychiatry, Los Angeles, 68. Polit. Sci. Asn; Asn. Asian Studies; Royal Asiatic Soc. Gt. Brit. & Ireland. Politics of social change in developing areas, with particular attention to development in India. Publ: Co-auth, India votes, Humanities, 67; auth, Gandhi and the round table conference, Polit. Sci. Rev, 11/66; Bureaucracy and Indian development: the problem of attitudes, Indian Polit. Sci. Rev, 10/67. Address: Dept. of Political Science, University of Wisconsin, Green Bay, Wis. 54305.

FOOTE, DR. DON CHARLES, b. New York, N.Y, Apr. 13, 31; m. 59; c. 1. GEOGRAPHY. B.A, Dartmouth Col, 53; Oslo, 53-54, 56-57; Carnegie Arctic scholar, McGill, 58-59, M.A, 59, Conserv. Found. grant, 63-65, Ph.D. (geog), 65. Dir. human geog. studies, Proj. Chariot, U.S. Atomic Energy Cmn, 59-61; session lectr. GEOG, McGILL, 63-64, lectr, 64-65, ASST. PROF, 65- Consult, Asn. Am. Indian Affairs, 63-67; Fisheries Res. Bd. Can, 64-65, 67-68; Inst. Soc. Econ. Govt. Res, Univ. Alaska, 67-68. AAAS; Arctic Inst. N.Am. Human ecological studies in northern environments; environmental systems analysis. Publ: American whalemen in the western Arctic, Arctic Anthrop, 65; co-auth, Human geographical studies NW Alaska, U.S. Atomic Energy Cmn, 66; auth, East coast of Baffin Island, Can. Govt, 67. Address: Dept. of Geography, McGill University, Montreal, Que, Can.

FOOTE, DR. MERRILL JEROME, b. Cedar Rapids, Iowa, June 28, 36; m. 63; c. 2. MANAGEMENT SCIENCE. B.S, Ill. Inst. Tech, 59; M.B.A, Indiana, 60, D.B.A, 67. Summer trainee, Int. Bus. Mach, 60, fel, systs. res. inst, 62-63; lectr, Ill. Inst. Tech, 63-68; ASST. PROF. MGT. SCI, SOUTHERN METHODIST, 68- Inst. Mgt. Sci; Opers. Res. Soc. Am; Am. Econ. Asn. Evaluation of interrelated projects; zero-one linear and quadratic programming. Publ: Independence vs. interdependence in project selection, Proc. Summer Symp. Eng. Econ. Div, Am. Soc. Eng. Ed, 65. Address: Dept. of Economics, Southern Methodist University, Dallas, Tex. 75222.

FOOTE, DR. NELSON N(ORTHRUP), b. Newcastle, Nebr, Mar. 27, 15; m. 40; c. 2. SOCIOLOGY. B.S, Cornell, 39, Ph.D.(sociol), 56; Soc. Sci. Res. Coun. fel, 48-49. Instr, Wayne State, 45-47; from instr. to asst. prof, Cornell, 47-51; asst. prof. sociol. & dir. family study center, Chicago, 51-56; SOCIOLOGIST, GEN. ELEC. CO, 56- Sociol. Asn; Soc. Res. Child Develop; Indust. Rels. Res. Asn; Asn. Pub. Opinion Res; Sociol. Res. Asn. Consumer behavior; industrial and family sociology; social psychology. Publ: Ed, Household decision making; co-auth, Identity and interpersonal competence & Housing choices and constraints. Address: General Electric Co, 570 Lexington Ave, New York, N.Y. 10022.

FOOTE, RICHARD J(AY), b. Mich, May 9, 14; m. 57; c. 3. ECONOMETRICS. B.S, Mich. State, 35; M.S, Iowa State Col, 37. Economist, Nat. Coop. Milk Producers Fedn, 37-39; agr. econ. statistician, bur. agr. econ, U.S. Dept. Agr, 39-43, anal. statistician, 50-54, head price & trade res. sect, agr. mkt. serv, 54-57; dir. commodity res, Connell & Co, 57-63; Comco, 63-66; owner, Ag-Co, 66-68; COMMODITY SOLICITOR, LAIRD, BISSELL & MEEDS, INC, 68- Dir. commodity res, Indust. Commodity Corp, 46-50. Award, U.S. Dept. Agr, 55. Economet. Soc; Farm Econ. Asn; Statist. Asn. Agricultural economics; supply, demand and price analysis. Publ: Co-auth, Agricultural prices; Analytical tools for studying demand and price structures & Computational methods for handling systems of simultaneous equations, In: U.S. Dept. Agr. Handbook. Address: P.O. Box 129, West Chester, Pa. 19380.

FORADORI, DR. GEORGE T, b. New York, N.Y, Nov. 16, 31; m. 52; c. 4. EXPERIMENTAL STATISTICS, OPERATIONS RESEARCH. B.B.A, City Col. New York, 53; M.A, N.C. State, 58, Ph.D.(statist), 62. Statistician, Atlantic Refining Co, 58-61, sr. analyst opers. res, 61-65, sr. consult. opers. res, ATLANTIC RICHFIELD CO, 65-67, MGR. MGT. SCI, 68- U.S.C.G, 53-58, Lt. Comdr. Statistical design of experiments; development of sampling plans. Publ: Stop lights in process correlations, Am. Soc. Qual. Control, 62; Experiment size for detecting changes in repeatability, Stanford Res. Inst, 64. Address: Atlantic Richfield Co, P.O. Box 7258, Philadelphia, Pa. 19101.

FORBES, DR. JACK D, b. Long Beach, Calif, Jan. 7, 34; m. 56; c. 2. INTERETHNIC RELATIONS. A.B, Southern California, 55, A.M, 56, Ph.D, 59. Teaching asst. Am. civilization, Southern California, 56, lectr. Am. hist, 58-59, Soc. Sci. Res. Coun. res. training fel, 57-58; instr. hist. & govt, Citrus Col, 59-60; asst. prof. hist, San Fernando Valley State Col, 60-64; assoc. prof. & dir. Center West. N.Am. Studies, Nevada, 64-66; RES. DIR, FAR WEST LAB, 67- Soc. Sci. Res. Coun. grant-in-aid res, 61; chmn, Am. Indian Col. Cmt, 61-; pres. elect, Found. Race Mixture Res, 62; Guggenheim fel, 63-64; Desert Res. Inst. grant, 65-66; prin. investr, Nev. Hist. Sites Surv. Proj, 65-66; mem. nat. adv. coun, Multi-Culture Inst, 68- Soc. Appl. Anthrop; Soc. Ethnohist; Hist. Asn. American Indian ethnohistory; minority group history; applied anthropology. Publ: Warriors of the Colorado, Univ. Oklahoma, 65; Nevada Indians speak, Univ. Nevada, 67; Afro-Americans in the far west, Far West Lab, 67. Address: Far West Lab, 1 Garden Circle, Hotel Claremont, Berkeley, Calif. 94705.

FORBES, DR. J(OHN) V(AN) G(ELDER), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FORBES, PROF. T(HEODORE) W(ATSON), b. Honolulu, Hawaii, May 21, 02; m. 46. PSYCHOLOGY. A.B, Oberlin Col, 24, A.M, 27; Ph.D.(psychol), Ohio State, 31. Instr. psychol, Ohio State, 29-31; asst, Columbia, 31-34, lectr, 34-36; Bur. Street Traffic res. fel, Harvard, 36-37, res. assoc, 37-38; asst. prof. transportation, bur. street traffic res, Yale, 38-41; personnel technician, trade test sect, tech. training command, U.S. Dept. Army Air Force, 41; res. assoc, Stevens Inst. Tech, 41-42; sr. investr, dept. psychol. res. proj, Pennsylvania, 42-43; spec. res. assoc, psycho-acoustic lab, Harvard, 43-46; assoc. prof. psychol, Hawaii, 46-51, chmn. dept, 48-50; exec. secy, cmn. hwy. safety res, Nat. Res. Coun, 51-54, tech. dir, 52-54; prog. dir, Am. Inst. Res, 54-57; prof. psychol. & asst. dir. res, hwy. traffic safety center, MICH. STATE, 57-61, PROF. psychol. & eng. res, 61-67, PSYCHOL, 67- Vis. prof, California, Los Angeles, 50-51. Psychologist, N.Y. Psychiat. Inst, 31-36; consult, Am. Transit Asn, 40-41. AAAS; Psychol. Asn; Acoustical Soc; Inst. Traffic Eng. Applied and experimental psychology; auditory signals for flight; human factors in highway operating efficiency and safety. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

FORBIS, DR. ORIE LESTER, Pediat, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

FORBIS, DR. RICHARD GEORGE, b. Missoula, Mont, July 30, 24; m. 60; c. 3. ANTHROPOLOGY. B.A, Montana, 49, M.A, 50; Ph.D.(anthrop), Columbia, 55. Asst. archaeol, Columbia, 52-53; ethnologist, U.S. Dept. Justice, 54; archaeologist, Pac. Northwest Pipeline Corp, 55-56; Glenbow Found, 56-63; asst. prof. ANTHROP, CALGARY, 63-65, assoc. prof, 65-68, PROF, 68- Consult, Glenbow Found, 63- U.S.A, 43-46. Fel. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; Ethnol. Soc; Coun. Can. Archaeol. North American archaeology and ethnology, especially history and prehistory of the northern Great Plains. Publ: Co-auth, An introduction to the archaeology of Alberta, Canada, Denver Mus. Natural Hist, 65. Address: 6638 Bow Crescent, Calgary, Alta, Can.

FORBUSH, PROF. DASCOMB R(AMSEY), b. New York, N.Y, Feb. 18, 20. ECONOMICS. A.B, Oberlin Col, 40; M.B.A, Harvard, 42, fel, 47-48, A.M, 48, Ph.D, 54. Asst. prof. bus. econ, Northwestern, 48-54, assoc. prof, 54-65; PROF. ECON. & CHMN. DEPT, CLARKSON TECH, 65- Consult, Jordan Develop. Bd, 61-62. Econ. Asn; Statist. Asn. Antitrust policy; economic development. Publ: Problems in corporate power, Northwestern Univ. Sch. Bus, 60; co-auth, Business economics, principles and cases, Irwin, 64. Address: Dept. of Economics, Clarkson College of Technology, Main St, Potsdam, N.Y. 13676.

FORCE, DR. ROLAND W(YNFIELD), b. Omaha, Nebr, Dec. 31, 24; m. 49. ANTHROPOLOGY. A.B, Stanford, 50, M.A.(ed), 51, M.A.(anthrop), 52, Ph.D. (anthrop), 58. Instr, Stanford, 54; assoc. ethnol, Bernice P. Bishop Mus, 54-

56; curator oceanic archaeol. & ethnol, dept. anthrop, Chicago Natural Hist. Mus, 56-61; DIR, BERNICE P. BISHOP MUS, 62- Mem, Pac. Sci. Bd, Nat. Res. Coun-Nat. Acad. Sci, 66-; U.S. Nat. Cmt, Int. Coun. Mus, 67-70. U.S.A, 43-46, Sgt. Fel. AAAS; fel. Anthrop. Asn; Asn. Mus. Social organization; culture change; prehistory; political development and leadership. Publ: Leadership and cultural change in Palau, Fieldiana: Anthrop; co-auth, Keys to cultural understanding, Sci. & Polynesian culture history, Bishop Mus. Press, 67. Address: Bernice P. Bishop Museum, 1355 Kaliki St, Honolulu, Hawaii 96819.

FORCE, RONALD C(LARENCE), b. Toledo, Ohio, Apr. 10, 17; m; c. 4. PSYCHOLOGY. B.A, Heidelberg Col, 40; M.A, Miami (Ohio), 41; California, 48-50. Instr. psychol, Miami (Ohio), 45-47; res. psychologist, sch. aviation med, Randolph Air Force Base, U.S. Air Force, 47-48, 51-52, res. & clin. psychologist, 3320th retraining group, Amarillo Air Force Base, 52-57, chief psychol. testing & res, dept. ment. hyg, Lackland Air Force Base, 57-60, clin. servs, 3320th Retraining Group, Amarillo Air Force Base, 60-64; COORDINATOR CLIN. SERV, ST. FRANCIS BOYS' HOMES, 66- Vis. lectr, Marymount Col.(Kans), 67- U.S.M.C, 42; U.S.A.A.F, 43-45; U.S.A.F, 57-62. Fel. AAAS; Psychol. Asn. Individual and group, clinical and actuarial assessment; quality control in delinquent corrections. Publ: Empathy: tests for selecting personnel to deal with people in trouble, J. Soc. Ther; Development of a covert test for detection of alcoholism, Quart J. Study Alcohol; Prediction of separation of Air Force trainees, J. Psychol. Studies. Address: 3325 Melanie Lane, Salina, Kans. 67401.

FORCE, PROF. THELMA GLADYS, Psychol, see 10th ed, Soc. & Behav. Vols.

FORD, DR. ADELBERT, b. Cadillac, Mich, Apr. 23, 90; m. 19; c. 3. PSYCHOLOGY. A.B, Michigan, 20, A.M, 23, Ph.D.(psychol), 26. Asst. prof. psychol, Michigan, 26-31; prof. & head dept, Lehigh, 31-55; psychologist, electronics lab, U.S. Dept. Navy, 55-59; CONSULT. HUMAN ENG, 59- Fel. from Lehigh, Princeton, 40; res. psychologist, div. war res, U.S. Dept. Navy, 41-45; res. dir, U.S. Air Force Inst. Res, 46-48; lectr, San Diego State Col, 53. Consult, Detroit Edison Co, 30. Hillman award, Lehigh, 52. U.S.N, 17-19. Fel. AAAS; fel. Psychol. Asn; Acoustical Soc. Industrial training and selection; human engineering in underwater sound and radar devices. Publ: Scientific approach to labor problems; Group experiments in psychology. Address: 4672 Adair St, San Diego, Calif. 92107.

FORD, PROF. BENJAMIN T(EMPLE), U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FORD, DR. CHA(RLE)S A(LFRED), b. Columbus, Ohio, Jan. 19, 01; m. 23; c. 2. PSYCHOLOGY. B.S, Ohio State, 23, M.S, 26, Ph.D.(clin. psychol), 30. Asst. psycho-clinician, bur. juvenile res, Ohio State, 27-29; instr. psychol, Temple, 29-42, asst. prof, 34-35, assoc. prof, 35-36, prof, 36-41, head dept, 37-41, dir. psychol. clin, 29-41, eve. exten. div, 34-41, chmn. col. adv. bd, 35-36, admin. asst. to pres, 36-41; dean Community Col. & Tech. Inst, 46-49; coordinator, Area Col. Center, Pa, 46-49; ed-in-chief, John C. Winston Co, 49-52; v.pres. & ed-in-chief, F.E. Compton & Co, 52-65; RETIRED. Consult, Elwyn Training Sch. & Homewood Sch, Pa, 29-41; Germantown Acad, 30-41; Jewish Hosps, 34-41. U.S.A, 17-19; U.S.N, 41-46, Capt. Fel. Psychol. Asn. Psychopathy; delinquency; effect of psychopathy upon the constancy of intelligence quotients and the rates of intelligence growth. Address: 854 21st Ave. S, Naples, Fla. 33940.

FORD, PROF. CLAYTON D(UDLEY), b. Delano, Minn, May 9, 05; m. 34; c. 3. GOVERNMENT. A.B, Minnesota, 29, A.M, 30; summer, Harvard, 50. Asst, Minnesota, 29-30; from instr. to PROF. GOVT. & DIR. SCH. GOVT, PRINCIPIA COL, 30- Prof, Alton Br, Southern Illinois, 61, 63; summer prof, Nat. Col. Ed, 63-67. Dir, Inst. World Affairs, 56; Nat. Center Ed. in Polit, 60-62. Polit. Sci. Asn. Far Eastern diplomacy; open door policy in Sino-British relations. Publ: Co-auth, Man's relation to man. Address: Dept. of Political Science, Principia College, Elsah, Ill. 62028.

FORD, PROF. CLELLAN STEARNS, b. Worcester, Mass, July 27, 09; m. 32; c. 2. ANTHROPOLOGY. Ph.B, Yale, 31, Page scholar, 33-34, Ph.D.(soc. anthrop), 35. Bishop Mus. fel, Fiji, 35-36; asst. sociol, inst. human rels, YALE, 36-39, asst. prof. ANTHROP, 40-46, assoc. prof, 46-51, PROF, 51-, pres. human rels. area files, 54. Consult, Bd. Econ. Warfare, 42-43. U.S.N, 43-46, Lt. AAAS; Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc; Acad. Polit. & Soc. Sci. Social anthropology; theory of culture and society; human reproduction. Publ: Co-auth, Patterns of sexual behavior; Smoke from their fires; Comparative study of human reproduction. Address: Dept. of Anthropology, Yale University, Yale Station 2054, New Haven, Conn. 06520.

FORD, DR. DENNIS B, JR, b. Decatur, Tex, Nov. 4, 22; m. 43; c. 2. BUSINESS ADMINISTRATION, ECONOMICS. B.B.A, Texas A&I, 48; M.B.A, Texas Tech. Col, 50; Found. Econ. Ed. fel, Texas, 56, Tex. Savings & Loan League grant, 57-58, Ph.D.(bus), 58. Instr. acct, North Dakota, 50-51; bus, West Texas State, 51-54; lectr. mgt, Texas, 54-56, asst. prof. bus. & asst. dean sch. bus, 56-58; assoc. prof. mgr, TEXAS A&I, 58-61, prof. mgt, 61-64, PROF. BUS. ADMIN. & DEAN SCH. BUS. ADMIN. & ECON, 64- Bus. consult, 56-; consult, mgr. develop. progs, 56- Business and industrial organization; human and organizational behavior. Publ: Study of functional growth in savings and loan organizations, Univ. Michigan, 58. Address: School of Business Administration & Economics, Texas A&I University, Kingsville, Tex. 78363.

FORD, DEAN DONALD H(ERBERT), b. Sioux City, Iowa, Aug. 15, 26; m. 48; c. 3. PSYCHOLOGY. B.S, Kans. State Col, 48, M.S, 50; Ph.D, Pa. State, 56. Asst. prof. psychol. & supvr. psychol. clin, PA. STATE, 55-56, asst. dir. div. counseling, 56-58, dir, 58-65, spec. asst. to pres, 65-67, ASSOC. PROF. HUMAN DEVELOP. & DEAN COL, 67- U.S.A.A.F, 44-45. AAAS; Psychol. Asn; Personnel & Guid. Asn. Clinical and counseling psychology; development of normal behavior; behavior disorder; principles and techniques of behavior change, especially psychotherapy; training of professional psychologists. Publ: Co-auth, Systems of psychotherapy, Wiley, 63; Effects on clients of a reflective and leading type of psychotherapy, Psychol. Monogr; Psychotherapy, Annual Rev. Psychol, 67. Address: Lemont, Pa. 16851.

FORD, ERWIN C(ARL), b. Okla, Dec. 3, 04; m. 33; c. 1. AGRICULTURAL ECONOMICS. B.S, Okla. State, 29, M.S, 31. Asst. agr. econ, Okla. State, 27-29, asst. res. economist coop. mkt, 31-33; agr. asst. agr. adj. admin, U.S. DEPT. AGR, 33-35, community mgr. resettlement admin, 35-38, assoc. agr. economist, bur. agr. econ, 38-46, AGR. ECONOMIST, SOIL CONSERV. SERV, 46- Farm Econ. Asn; Soil Conserv. Soc. Land and water utilization; upstream flood prevention; farm land prices. Publ: Floods and a program to alleviate them, Yearbook Agr; Oklahoma farm real estate activity, Okla. Agr. Exp. Sta. Bull; Warns against boom in farm land prices, Ark. Banker. Address: 106 Shaw Ave, Silver Spring, Md. 20904.

FORD, DR. FRANK BERNARD, b. Paris, Tex, Sept. 18, 23; m. 44; c. 2. PSYCHOLOGY. B.A, Missouri, 47; M.A, Washington (St. Louis), 50, Ph.D. (psychol), 56. Instr. psychol, Washington (St. Louis), 51-52; assoc. dir, Human Rel. Res. Found, Inc, 53-54; psychologist, PERSONNEL RES. LAB, Air Res. Develop. Command, 54-55, supvry. personnel measurement & eval, 55-59, supvry. res. psychologist, systs. command, U. S. DEPT. AIR FORCE, 60-62, CHIEF STATIST. DIV, PERSONNEL RES. LAB, 62- Statist. consult, U.S. Mil. Assistance Comman, Vietnam, 66-67; info. systs, Off. Secy. Defense, Adv. Res. Projs. Agency, 68- U.S.N, 43-46, Ens. AAAS; Psychomet. Soc; Statist. Asn. Mathematical models in systems research; use of high speed computers in information systems and decision making. Publ: Co-auth, Application of a model based on Markov chains to the airman structure of the Air Force; A technique for the evaluation of recruting strategy, U.S. Air Force Tech. Report, 62. Address: OSD/ARPA RDC-T, APO San Francisco 96346.

FORD, DR. FRED C(HARLES), b. Turtle Creek, Pa, Aug. 2, 11; m. 45; c. 3. PSYCHOLOGY. B.S, Carnegie Inst. Tech, 34; M.A, Pittsburgh, 37, Ph.D. (ed, psychol), 50. Instr, high sch, Pa, 34-39; dir. testing & res, sch. dist, Mt. Lebanon, Pa, 39-48; assoc. prof. ed. & dir. personnel, Mississippi, 48-54; assoc. dir. personnel, PENNSYLVANIA, 54-55, DIR. PERSONNEL, 55- Lectr, Pittsburgh, 39-41, 47; Pa. State Col, 47. U.S.A, 42-46, Capt. AAAS; Psychol. Asn. Test construction; personnel procedures. Publ: Employee personnel practices in colleges and universities, Col. & Univ. Personnel Asn; Survey of top-management salaries, Col. & Univ. Bus; Personnel organizations, Proc. South. Asn. Col. & Univ. Bus. Officers. Address: 3451 Walnut St, Philadelphia, Pa. 19104.

FORD, GERALD LEE, b. Council Bluffs, Iowa, May 21, 29; m. 53; c. 3. INDUSTRIAL PSYCHOLOGY. B.A, Iowa, 52; M.A, Western Reserve, 58. Voc. counsr, Iowa State Employ. Serv, 53-54; asst. selection diag. testing, psychol. res. serv, Western Reserve, 55; chief statistician qual. control eng, Cleveland Graphite Bronze Co. Div, Clevite Corp, 56; mgt. trainee, Eaton Mfg. Co, 57-58; res. assoc, Personnel Res. & Develop. Corp, 59-60; personnel dir, Toni Co. Div, Gillette Co, 60-65; corp. personnel dir, MODG Inc, 66-67; PRES, GERALD L. FORD & ASSOCS, INC, 67- Psychol. Asn. Industrial selection; assessment techniques and related criteria development; organization analysis; development-training schemes; organization development; personnel systems. Publ: Supervisory climate and performance ratings, an exploratory study & co-auth, Rating scale content: predictability of structured and unstructured scales, Personnel Psychol. Address: 278 Olean Rd, East Aurora, N.Y. 14052.

FORD, DR. HAROLD PERRY, Int. Rels, see 10th ed, Soc. & Behav. Vols.

FORD, PROF. HOYT, b. Trenton, Tex, Aug. 10, 00; m. 25. PSYCHOLOGY. B.A, Simmons Col, 23; M.A, Texas, 26, Ph.D.(ed), 40; Stanford, 30-31. Asst. prof. ed, Simmons (Tex), 28-32, assoc. prof, 32-34, Hardin-Simmons, 34-39; instr, Texas, 39-40; assoc. prof. ed. & psychol, HARDIN-SIMMONS, 40-42, PROF. PSYCHOL, 42-, dir. testing, 47-66, HEAD DEPT. PSYCHOL, 57- Psychologist, U.S. War Dept, 42. Psychol. Asn. College marks. Address: Dept. of Psychology, Hardin-Simmons University, Abilene, Tex. 79601.

FORD, DR. JAMES A(LFRED), Anthrop, Archaeol, see 10th ed, Soc. & Behav. Vols, deceased 68.

FORD, DR. JAMES W(ILLIAM), b. Alameda, Calif, Feb. 1, 23; m. 45; c. 3. ECONOMICS. A.B, Oberlin Col, 47; Fulbright grants, Cambridge, 49-51; M.A, Harvard, 49, Ph.D.(econ), 54. Asst. prof. econ, Vanderbilt, 53-57; assoc. prof, Ohio State, 57-59; economist, bd. govs, Fed. Reserve Syst, 59-61; DIR. ECON. OFF, FORD MOTOR CO, 61- Fel, Chicago, 58-59. U.S.A, 43-46. Monetary theory; financial system of the United States. Address: Economics Office, Ford Motor Co, American Rd, Dearborn, Mich. 48121.

FORD, DR. JOHN D(ANIEL), JR, b. West Chester, Pa, Sept. 24, 20; m. 45; c. 1. PSYCHOLOGY. B.S, West Chester State Col, 42; A.M, Columbia, 47, Ed.D, 54. Asst. prof. ed, Fels Group Dynamics Center, Temple, 50-54, prog. dir, Fels Center, 54-55; assoc. res. prof, Delaware, 55-56; assoc. soc. scientist, systs. develop. div, Rand Corp, 56-58; human factor scientist, Syst. Develop. Corp, 58-64; prog. dir. TRAINING RES, U.S. NAVAL PERSONNEL RES. ACTIVITY, 64-67, DIR. COMPUTER ASSISTED INSTR. RES. DEPT, 68- Mem. bus. admin. staff, exten, California, Los Angeles, 57-; summers, West. Training Lab, 56-57. Consult, Armstrong Asn, Pa, 52-53; Radio Corp. Am, N.J, 53. U.S.N, 42-46, Res, 46-58, Lt. Psychol. Asn; Personnel & Guid. Asn. Social interaction behavior in problem-solving groups; task and individual factors in human learning; man-machine system analysis and experimentation; research in computer assisted instruction, instructional theory and cognative learning. Publ: Co-auth, Effects of personnel replacement on an information processing crew, J. Appl. Psychol; Development of cooperation in a two-man team carrying out a decision making function; auth, Some factors affecting the behavior of emergent and designated leaders in small problem solving groups. Address: 3407 Newell St, San Diego, Calif. 92106.

FORD, PROF. JOSEPH B, b. Los Angeles, Calif, Jan. 20, 18; m. 48; c. 3. SOCIOLOGY, CITY & REGIONAL PLANNING. B.A, California, Los Angeles,

37; Southwestern, 39; M.A, Southern California, 41; Colorado, 42-43; Paine fel. & M.A, Harvard, 47; Loewy & Taussig travel fel. & Ph.D, California, Berkeley, 51. V.pres, Mortgage Credit Corp, 48-50; from asst. prof. to prof. SOCIOL, Los Angeles State Col, 50-58; PROF. & CHMN. DEPT, SAN FERNANDO VALLEY STATE COL, 58- Vis. prof, California, Berkeley, 51, Santa Barbara, 55; Fulbright sr. res. grants & vis. prof, Rome, 55-56, Vienna, 58-59, Madrid, 61-62; Ford Found. Int. Inst. Ed. res. grant city planning, 59; vis. prof, Nat. Univ. Mexico, 60; Am. Univ. Beiruit, 65-66. From case worker to supvr, State Bur. Personnel Audits, Calif, 39-40; cmnr, Los Angeles City Planning, 61-63. Fel, Int. Inst. Sociol, counsr. & mem. exec. bur, 62-68, treas, 68-72; exec. secy, Inter Sci. Cmn, 68- U.S.N, 42-46, Res, 46-50. Fel. Sociol. Asn. Urban sociology and city planning; social change and thought; historical and comparative sociology; criminology. Publ: Co-auth, Sorokin in review, Duke, 63; auth, Comte and positivism, (in press) & Positivism and sociology, (in press), Rand. Address: 18247 Ludlow St, Northridge, Calif. 91324.

FORD, DR. LEON I(GNATIUS), b. Chicago, Ill, July 3, 20; m. 49; c. 2. PSYCHOLOGY. B.S, Roosevelt, 47; M.A, Northwestern, 50; Ph.D.(psychol), Purdue, 56. Trainee clin. psychol, Downey Vet. Admin. Hosp, Ill, 48-50; psychologist, State Hosp, Manteno, Ill, 50-53; asst. ed. psychol, Purdue, 53-54; trainee clin. psychol, Marion Vet. Admin. Hosp. & Vet. Admin. Ment. Hyg. Clin, Indianapolis, Ind, 54-56; CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, PITTSBURGH, 56- U.S.A, 43-46, Sgt. Psychol. Asn. Expressive projective techniques; personality variables in opinion change; speech and language pathology; intra-group verbal and non-verbal communication; evaluation of psychotherapeutic techniques. Publ: Co-auth, Comparative diagnostic considerations and prognostic evaluations of electroshock and insulin coma treatments, Systematic desensitization with phobic schizophrenics, 62, Am. J. Psychiat. & Verbal-behavior discrepancy in schizophrenia, J. Clin. Psychol. Address: 1419 Oberlin St, Pittsburgh, Pa. 15206.

FORD, DR. LEROY H(OWLAND), JR, b. New York, N.Y, Oct. 22, 27; m. 53; c. 1. PSYCHOLOGY. B.S, Ohio State, 54, M.A, 57, Ph.D, 59. Asst. instr. PSYCHOL, Ohio State, 57-58; asst. prof. Buffalo, 59-64, ASSOC. PROF, STATE UNIV. N.Y. BUFFALO, 64- Vis. assoc. prof, Colorado, 65-66; U.S. Pub. Health Serv. spec. fel, Illinois, 66-67. Psychol. Asn. Social desirability, defensiveness and approval motivation; personality development; social learning; experimental analysis of child behavior. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

FORD, DR. LUCILLE G(ARBER), b. Ashland, Ohio, Dec. 31, 21; m. 46; c. 2. ECONOMICS. B.S, Northwestern, 44, M.B.A, 45; Ph.D, Case Western Reserve, 67. Instr. econ, Alabama, 45-46; bus, Allegheny Col, 46-47; personnel dir, A.L. GARBER CO, 47-52, ASST. SECY, 52-; ASSOC. PROF. ECON, ASHLAND COL, 67- Econ. Asn. Economic education; industrial management; labor economics. Address: Dept. of Economics, Ashland College, Ashland, Ohio 44805.

FORD, DR. MARGUERITE P(RENTICE), b. Summit, N.J, Aug. 24, 31. PSYCHOLOGY. B.A, Sarah Lawrence Col, 53; M.A, Clark, 56; Ph.D.(psychol), Columbia, 67. Res. asst. psycholing, Mass. Inst. Tech, 59-60; sr. res. asst. personality, Ed. Testing Serv, 60-62; asst. prof. psychol, Lock Haven State Col, 62-63; RES. PSYCHOLOGIST, CALIF. TEST BUR, 67- Psychol. Asn; Ed. Res. Asn. Perceptual and cognitive development; intersensory processes; learning disabilities. Publ: Co-auth, Address in American English, J. Abnorm. & Soc. Psychol, 61; auth, Auditory-visual and tactual-visual integration in relation to reading ability, Perceptual & Motor Skills, 67. Address: California Test Bureau, Monterey, Calif. 93940.

FORD, PROF. MARY E(LIZABETH) N(ESTLERODE), b. Fostoria, Ohio, Mar. 23, 07. CHILD PSYCHOLOGY. B.A, Wellesley Col, 32; M.A, Toronto, 33; Ph.D.(child develop), Minnesota, 43. Dir. nursery sch. & kindergarden, Northrup Collegiate Sch, Minn, 37-38; instr. CHILD DEVELOP. & FAMILY RELATIONSHIPS, N.Y. STATE COL. HOME ECON, CORNELL, 38-43, asst. prof, 43-46, assoc. prof, 46-52, PROF, 52- Psychol. Asn; Soc. Res. Child Develop; Int. Coun. Psychol. Projective methods; mental tests; exceptional children. Publ: Application of the Rorschach test to young children; co-auth, Attitudes toward marriage and parenthood. Address: Dept. of Child Development & Family Relationships, Cornell University, Ithaca, N.Y. 14850.

FORD, DR. NEIL M, b. Sterling, Ill, June 12, 31; m. 55; c. 3. BUSINESS MANAGEMENT. B.S, Southern Illinois, 58; M.S, Illinois, 61, Ph.D.(mkt), 66. Instr. mkt, Bradley, 59-62; res. assoc. econ, Illinois, 63-66; ASST. PROF. BUS, WISCONSIN, 62- U.S.A.F, 51-54. Mkt. Asn. Research methodology. Publ: Co-auth, County income in Illinois, 1950-2020, Illinois Dept. Bus. & Econ. Develop, 67; co-auth, The collection of job vacancy data within a labor turnover framework, In: Employment policy and the labor market, Univ. California, 65; The advance letter in mail surveys, J. Mkt. Res, 5/67. Address: Graduate School of Business, University of Wisconsin, Madison, Wis. 53706.

FORD, DR. RICHARD IRVING, b. Harrisburg, Pa, June 27, 41; m. 63. ANTHROPOLOGY. A.B, Oberlin Col, 63; M.A, Michigan, 65, Ph.D.(anthrop), 68. ASST. PROF. ANTHROP, CINCINNATI, 67-, Univ. Faculty Res. Fund grant, 68. AAAS; Anthrop. Asn; Soc. Am. Archaeology; Ethnol. Soc. Ethnobotany; ecological analysis in anthropology; prehistoric adaptive systems in North America, Peru and Africa; functional analysis of prehistoric tools. Publ: A preliminary report of the 1964 resistivity survey at the Schultz site (205A2), Mich. Archaeologist, 64; Analysis of the floral materials from LA 6462, 68 & Analysis of the floral materials from LA 6491, 68, Mus. N.Mex. Papers in Anthrop. Address: Dept. of Anthropology, McMicken College of Arts & Sciences, University of Cincinnati, Cincinnati, Ohio 45221.

FORD, PROF. ROBERT A, b. Atlanta, Ga, Mar. 29, 25; m. 47; c. 2. FINANCE. B.B.A, Texas, Austin, 49, M.B.A, 50; Ph.D.(finance), Alabama, 56. Asst. prof. bus. admin, Arlington State Col, 50-54; FINANCE, Alabama, 55-57; head dept, Southwestern Louisiana, 57-59; PROF, Arlington State Col, 59-62; OKLAHOMA, 62-, CHMN. DEPT, 67- Life Ins. Agency Mgt. Asn. & Am. Risk & Ins. Asn. res. fel, Home Off. Provident Life Ins. Co, Tenn, summer 56; Home Off. Southwest. Life Ins. Co, Tex, summer 57; v.pres. finance, Saturn Electronics Corp, 61-62; financial adv, City of Norman, Okla, 62-65. Mem. annual forum finance, Joint Cmt. Ed. Am. Securities Bus, N.Y, summer 56, 64. U.S.A.A.F, 1st Lt. Finance Asn. Investments; security analysis; business finance. Publ: The economic effects of the 1959 steel strike, Diary Alpha Kappa Psi, spring 61; Tax revision as an investment stimulant, Miss. Bus. Rev, spring 62; The federal tax credit—its effect upon capital expenditures, Bus. & Govt. Rev, spring 63. Address: 1728 Homeland, Norman, Okla. 73069.

FORD, DR. ROBERT N(ICHOLAS), b. North Braddock, Pa, Feb. 25, 09; m. 33; c. 2. SOCIOLOGY. B.A, Pa. State, 31; M.A, Pittsburgh, 35, Ph.D.(sociol), 40; Chicago, 38. Instr, schs, Pa, 31-40; sociol, Kentucky, 40; Alabama, 40-41; assoc. prof. sociol, Miss. State Col, 41-43; asst. prof, Vanderbilt, 43; chief classification sect, nat. hqs, Selective Serv. Syst, D.C, 43-44; statistician, res. br, info. & ed. div, off. chief staff, U.S. War Dept, 44-45; asst. chief, surv. div, off. coordination & planning, Vet. Admin, 45-47; statistician, AM. TEL. & TEL. CO, 47-49, personnel rels, 49-55, dir. commun. soc. sci. res, Bell Tel. Labs, 55-58, supvr, mgt. training sect, personnel rels, 58-67, DIR. MANPOWER UTILIZATION, 68- Sociol. Asn; Statist. Asn; Asn. Pub. Opinion Res (pres. 68-69). Employee attitudes; social psychology; techniques for scaling experiences. Address: 42 Dellwood Ave, Chatham, N.J. 07928.

FORD, PROF. ROBERT S(PIVEY), b. Bellevue, Tex, Nov. 24, 02; m. 29, 60; c. 1. ECONOMICS, GOVERNMENT. A.B, Texas Christian, 24; fel, California, 24-26, A.M, 26; Ph.D, Columbia, 33. Instr, Princeton, 26-29; Columbia, 29-33; economist, U.S. Dept. Agr, 33-34; asst. prof. ECON, MICHIGAN, 34-38, assoc. prof, 38-47, PROF, 47-, ASSOC. DEAN, HORACE H. RACKHAM SCH. GRAD. STUDIES, 58-, asst. dean, 50-58, res. investr, bur. govt. 34-37, act. dir, 37-38, dir, 38-50. State fel. taxation & res. investr, State Tax Cmn, N.Y, 31-32; spec. adv. to Gov. of Mich. & dir, State Dept. Bus. Admin, Mich, 43-45; proj. assoc. state labor admin. agencies, Mich. Joint Legis. Cmn. on Reorgn. State Govt, 50. Taxation consult, Webster's Third New Int. Dictionary, 61. Econ. Asn; Soc. Pub. Admin; Tax Inst.(1st v.pres, 49). Public finance and taxation, Michigan highway finance; taxation of intangibles. Address: 600 E. Washington St, Ann Arbor, Mich. 48108.

FORD, THOMAS JOHN, b. Baltimore, Md, Nov. 16, 29; m. 50; c. 3. INDUSTRIAL PSYCHOLOGY. B.A, Maryland, 50, M.A, 52. Personnel counsr, WEST. ELEC. CO, INC, Md, 52-55, dept. chief personnel res, N.Y, 55-64; dept. chief psychol. testing, 64-68, PERSONNEL ADMIN. MGR, 68- Psychol. Asn. Management development; personnel selection; industrial communication; validation of assessment systems. Publ: Co-auth, Verbal context and free association time, Am. J. Psychol. Address: Western Electric Co, Inc, 222 Broadway, New York, N.Y. 10038.

FORD, PROF. THOMAS R(OBERT), b. Lake Charles, La, June 24, 23; m. 49; c. 3. SOCIOLOGY. B.S, La. State, 46, M.A, 48; Ph.D.(sociol), Vanderbilt, 51. Instr. sociol, La. State, 48-49, asst. prof, Alabama, 50-53; res. statistician, U.S. Air Force Personnel & Training Center, 53-56; assoc. prof. sociol. & assoc. rural sociologist, KENTUCKY, 56-60, PROF. SOCIOL, 60-, CHMN. DEPT, 66-, PROF. BEHAV. SCI, SCH. MED, 60- Mem. nat. adv. cmn. rural poverty, 66-67. U.S.A.A.F, 43-45. AAAS; Sociol. Asn; Pop. Asn; Rural Sociol. Soc.(v.pres. 66-67). Community; population. Publ: Man and land in Peru; ed, Southern Appalachian region: a survey; auth, Health and demography in Kentucky, Univ. Kentucky, 64. Address: Dept. of Sociology, University of Kentucky, Lexington, Ky. 40506.

FORD, DR. TROWBRIDGE HARRIS, b. El Paso, Tex, Nov. 9, 29; m. 60. POLITICAL SCIENCE. A.B, Columbia Col, 52; Ph.D.(polit. sci), Columbia, 67. Instr. POLIT. SCI, Columbia Col, 59-63; ASST. PROF, Heidelberg Col, 64-66; Maine, 66-67; COL. HOLY CROSS, 67- Intel.C, U.S.A, 52-54. Polit. Sci. Asn; Acad. Polit. Sci. Western European comparative politics and modern political theory; politics and political theory of nineteenth century Great Britain. Address: Dept. of Political Science, College of the Holy Cross, Worcester, Mass. 01610.

FORD, DR. VIRGINIA, b. Toledo, Ohio, July 3, 14. ANTHROPOLOGY. B.S.N.E, Catholic Univ, 50, M.S.N, 60, U.S. Pub. Health fel. & Ph.D.(anthrop), 67. Pub. health nurse, Toledo Dist. Nurse Asn, 36-41; U.S. Pub. Health Serv, 41-44; Mission to Liberia, 45-46; staff asst. welfare, Am. Nat. Red Cross, 46-48; adv. health, WHO, 50-55; consult, Int. Coop. Admin, 56-59; assoc. chief health, Vet. Admin. Hosp, 65-67; ASST. PROF. ED, DePAUL, 67- U.S.P.H.S, 44-45, 50-55, Maj. Fel. Anthrop. Asn. Cultural criteria and determinants for acceptance of modern medicine among the Teton Dakota Indians; health. Publ: Co-auth, Serological tests for syphilis among lepers, 5/52 & Serological aspects of a syphilis control program in the Ghund area, Himachal Pradesh, India, 7/52, Bull. WHO. Address: 400 E. 33rd St, Apt. 401, Chicago, Ill. 60616.

FORDYCE, DR. W(ILBERT) E(VANS), b. Sunnyside, Wash, Jan. 3, 23; m. 46; c. 2. CLINICAL PSYCHOLOGY. Ph.D.(clin. psychol), Washington (Seattle), 53. Clin. psychologist, ment. hyg. clin, Vet. Admin, Ft. Snelling, Minn, 53-54, hosp, Seattle, Wash, 54-59; asst. prof. CLIN. PSYCHOL, WASHINGTON (SEATTLE), 59-64, ASSOC. PROF, 64- Consult, servs. for blind, State Dept. Pub. Assistance, Wash, 55- Chmn. voc. psychol. cmt, Am. Rehab. Found, 67- U.S.C.G, 43-45. Behavior modification in medical rehabilitation; stimulus parameters in learning problems with hemiplegics. Address: 10301 45th N.E, Seattle, Wash. 98125.

FOREHAND, PROF. GARLIE A(LBERT), b. Lexington, Va, Mar. 2, 33; m; c. 4. PSYCHOLOGY. B.A, Richmond, 54; M.A, Illinois, 56, Ph.D.(psychol), 58. Res. assoc. PSYCHOL, Chicago, 58-60, asst. prof, 60-62; assoc. prof, CARNEGIE-MELLON UNIV, 62-66, PROF, 66-, HEAD DEPT, 67- Consult, Bd. Pub. Ed, Pittsburgh, 65- AAAS; Psychol. Asn. Psychological measurement; cognitive processes; educational evaluation. Publ: Co-auth, Environmental variation in studies of organizational behavior, Psychol. Bull, 64; auth, Constructs and strategies for problem-solving research, In: Problem solving, Wiley, 66 & The role of the evaluator in curriculum research, J. Ed. Measurement, 67. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

FOREMAN, DR. CLARK HOWELL, b. Atlanta, Ga, Feb. 19, 02; m. 33; c. 3. SOCIOLOGY. A.B, Georgia, 21; Harvard, 21-22; London, 23-24; M.A, Columbia, 28, Ph.D, 32. Dir. studies, Julius Rosenwald Fund, 29-33; adv. econ. status of Negroes, U.S. Dept. Interior, 34-35; dir. power, Pub. Works Admin, 35-40; defense housing, Fed. Works Agency, 40-42; asst. prof. polit. sci, Black Mountain Col, 43-44; exec. secy, Nat. Citizens Polit. Action Cmt, 44-45; exec. pres, South. Conf. Human Welfare, 45-48; dir. training, bur. appl. soc. res, Columbia, 50-51; DIR, EMERGENCY CIVIL LIBERTIES CMT, 51- Consult, Asn. W.German Radio Stas, 51. Negro elementary education related to environmental factors; democratic use of mass media; survival of individual freedom in the increasing collectivism. Publ: Environmental factors in Negro elementary education; New Internationalism; Report on West German radio stations. Address: 25 E. 26th St, New York, N.Y. 10010.

FOREMAN, DR. MILTON E, b. Philadelphia, Pa, Dec. 7, 32; m. 55; c. 2. COUNSELING PSYCHOLOGY. B.A, Albright Col, 58; M.A, Ohio State, 60, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, CINCINNATI, 63-68, ASSOC. PROF. 68-, DIR. COUNSELING SERV, 68- Consult, Hamilton County Court Domestic Rels, 64-65; S. West. Sch. Dist, Title III Demonstration Sch, 66-; Vet. Admin. Hosp, Cincinnati, 67- U.S.N, 52-53. Psychol. Asn; Personnel & Guid. Asn. Positive psychological health; human groups; vocational choice, planning and development. Address: Counseling Service, Pharmacy Bldg, University of Cincinnati, Cincinnati, Ohio 45221.

FOREMAN, PROF. PAUL B(RECK), b. Baker, Ore, June 3, 11; m. 43; c. 2. SOCIOLOGY. B.S, Oregon, 33, A.M, 35; univ. fel, Vanderbilt, 35-36, Rosenwald fel, 38-39, Ph.D, 39. Res. intern, Ore. State Sch. for Boys, 34-35; State Planning Bd, 36; acting assoc. prof. sociol, Mississippi, 36-39, assoc. prof, 39-40, prof. & head dept, 40-46; prof, Okla. Agr. & Mech. Col, 46-54; prof. sociol. & anthrop. & chmn. dept, Alabama, 54-61; PROF. SOCIOL, PA. STATE, 61- Res. intern, State Planning Cmn, Miss, 38-39; Gen. Ed. Bd. fel, 41-42, lectr, Atlanta, 55, 61. Consult, opers. res. off, Hopkins, 51-54. Adj. Gen. Dept, 42-46, Capt. Sociol. Asn. Social psychology; race relations; social organization. Publ: Theory of case studies, In: Social forces; Panic theory, Soc. & Soc. Res; Mississippi population trends. Address: Dept. of Sociology, Pennsylvania State University, University Park, Pa. 16801.

FORER, DR. BERTRAM R(OBIN), b. Springfield, Mass, Oct. 24, 14; m. 41; c. 2. PSYCHOLOGY. B.S, Mass. State Col, 36; M.A, California, Los Angeles, 38, Ph.D.(psychol), 41. Personnel technician, U.S. Civil Serv. Cmn, 41-42; test & measurement specialist, Off. Secy. War, 46; clin. psychologist, Vet. Admin, Los Angeles, 47-60. Assoc. clin. prof, California, Los Angeles, 47-60; private practice, 60- Consult, Mt. Sinai Hosp, 60-; Los Angeles Psychiat. Serv, 61-; Wadsworth Vet. Admin. Hosp, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. U.S.A, 42-46. Psychol. Asn; Soc. Proj. Tech.(exec. ed, J. Proj. Tech, 55-; pres, 60-61). Personality dynamics and vocational behavior; psychotherapy of schizophrenia; clinical instruments; communication through physical contact; interpersonal psychology. Publ: Personality factors in vocational choice, Ed. & Psychol. Measurement; Schizophrenia: the narcissistic retreat, J. Proj. Tech; Clinical observation of the therapeutic transaction, J. Consult. Psychol. Address: 2170 E. Live Oak Dr, Los Angeles, Calif. 90028.

FORER, DR. LUCILLE K(REMITH), b. Springfield, Ill; m. 41; c. 2. CLINICAL PSYCHOLOGY. Ph.D, Southern California, 53. CLIN. PSYCHOLOGIST, 53- Asst. prof. Los Angeles State Col, 53-58. Psychol. Asn; Soc. Proj. Tech. & Personality Assessment. Address: 2170 Live Oak Dr, East Los Angeles, Calif. 90028.

FORER, DR. RAYMOND, b. New Brunswick, N.J, Feb. 12, 15; m. 46; c. 2. SOCIOLOGY, ANTHROPOLOGY. B.A, Denver, 47; M.A, Yale, 51, scholar, 54, Ph.D.(sociol), 55. Instr. sociol. & anthrop, Connecticut, 53-57; res. sociologist, State Dept. Ment. Health, Conn, 57-60; dir, behav. sci. prog, State Dept. Health, Ky, 60-61; prof. sociol. & chmn. dept. sociol. & anthrop, Maine, 61-63; chief behav. sci, communicable disease center, U.S. Pub. Health Serv, 63-66; PROF. SOCIOL, STATE UNIV. N.Y. ALBANY, 66- Asst, Yale, 53-56. Res. consult, 50- U.S.A.A.F, 42-45, Sgt. AAAS; fel. Sociol. Asn; fel. Soc. Appl. Anthrop; Soc. Study Soc. Probs. Medical sociology; public health; alcoholism; criminology; mass media; community. Address: 29 Bennoch Rd, Orono, Maine 04473.

FORESTER, WAYNE A(NDREW), b. Quincy, Mass, Nov. 12, 32; m. 66; c. 1. CRIMINOLOGY. A.B, Harvard, 54; M.Ed, Mass. State Col, 59. EXEC. SECY, AM. ASN. CRIMINOL, 53- Secy, inst. socio-pathic social disorganization, Am. Asn. Criminol, 65, inst. on alcoholism, 66, inst. narcotics & drug abuse, 67 & inst. suicide & self-destruction, 68. Mem, Int. Criminol. Cong, 60 & 65. U.S.M.C.R, 51-59, Sgt. AAAS; fel. Asn. Criminol; Sociol. Asn; Asn. Adv. Criminol.(secy, 64-); Forensic Sci. Soc; Judicature Soc; Correctional Asn; United Prison Asn; Nat. Coun. Crime & Delinquency; Inst. Study Treatment & Delinquency; Law & Society Asn; Soc. Psychol. Study Social Issues; Brit. Asn. Adv. Sci; Brit. Medico-Legal Soc; Int. Soc. Criminol; Int. Asn. Criminal Law. History of criminology; practical criminology; police professionalization; progressive penology; police career recruitment. Publ: Elements of criminal identification and investigation, Boston Sch. Criminol, 53; Elements of practical criminology, Am. Asn. Criminol, 61. Address: Box 3014, University Station, Eugene, Ore. 97403.

FORGAYS, PROF. DONALD GABRIEL, b. Lowell, Mass, Sept. 8, 26; m. 48; c. 3. PSYCHOLOGY. B.A, Dartmouth Col, 46; Yale, 46-47; M.A, McGill, 48, Ph.D.(psychol), 50. Asst. prof. psychol, Western Michigan, 50-51; supvry. psychologist, U.S. Air Force Personnel & Training Res. Center, 51-55; asst. prof. PSYCHOL, Cornell, 55-57; assoc. prof. Rutgers, 57-64; PROF. & CHMN. DEPT, VERMONT, 64- Res. grants, Nat. Sci. Found, Nat. Insts. Health, NASA, 55- Consult, N.Y. Dept. Corrections, 67- Nat. Sci. Found mem, 60- U.S.N, 44-46; U.S.A.R, 51-53; U.S.A.F, 53, Lt. Col. AAAS; Psychol. Asn. Influence of early experience on later behavior; effects of sensory isolation; sensory reinforcement. Publ: Critical thinking, N.J. Sec. Sch. Teachers Asn, 63; Individual differences in the effects of early experience on later behavior, Ferkauf Grad. Sch. Ed, 65; Crucial periods for free-environmental experience in the rat, J. Comp. & Physiol. Psychol, 62. Address: Dept. of Psychology, University of Vermont, Burlington, Vt. 05401.

FORGOTSON, DR. EDWARD HERMAN, b. Albuquerque, N.Mex, May 10, 34; m. 62; c. 2. PUBLIC HEALTH. B.A, Texas, 53, LL.B, 60; M.D, Washington (St. Louis), 57; LL.M, Michigan, 63. Admin. intern, off. gen. counsel, U.S. Atomic Energy Cmn, 60-61, spec. asst, off. cmnrs, 61-62; dir. prog. anal, off. asst. secy, U.S. Dept. Health, Ed. & Welfare, 63-64; dep. spec. asst. to President, 64-65; ASSOC. PROF. PUB. HEALTH, SCH. PUB. HEALTH & ASSOC. PROF. PREV. MED, SCH. MED, CALIFORNIA, LOS ANGELES, 65-, CHMN. DIV. SYSTS. DEVELOP. & PLANNING, 68- Res. assoc, law sch, Yale, summer, 63. Consult, U.S. Atomic Energy Cmn, 62-; TRW Systs, 65-; Nat. Pituitary Agency, 66-; Rand Corp, 67- Pub. Health Asn. Administrative medicine; health policy; health manpower. Publ: 1965: turning point in health law—1966 reflections, Am. J. Pub. Health, 67; co-auth, Legal regulation of health personnel, Wash. Univ. Law Quart, 67 & In: Report Nat. Adv. Cmn. Health Manpower, Vol. II, 68. Address: Center for Health Science, Room 73-256, University of California School of Medicine, Los Angeles, Calif. 90024.

FORGUS, PROF. RONALD H(ENRY), b. Cape Town, S.Africa, May 18, 28; m. 51; c. 2. PSYCHOLOGY. B.Sc, McGill, 50, M.Sc, 51, Can. Nat. Res. Coun. scholar, 51-53; Ph.D.(psychol), Cornell, 53. Instr. PSYCHOL, Pennsylvania, 53-56, asst. prof, 56-58; assoc. prof, LAKE FOREST COL, 58-63, PROF, 63-, CHMN. DEPT, 58- Res. investr, U.S. Dept. Army, 54-55; vis. prof, Harvard, 65-66; Am. Psychol. Asn. nat. vis. scientist, 67-68. Summers, lectr. & chmn, Nat. Defense Ed. Act Inst, Wesleyan, Conn, 66, Nat. Sci. Found. Inst. lectr, Beloit Col, 67, vis. prof, Harvard, 67 & 68. Am. Psychol. Asn; Can. Psychol. Asn. Experimental and educational psychology; relationship between perception, learning and thinking; development and improvement of perception and problem-solving ability. Publ: Perception, McGraw, 66; Early visual and motor experience as factors influencing learning; Effect of training methods on efficient transfer and problem-solving. Address: Dept. of Psychology, Lake Forest College, Lake Forest, Ill. 60045.

FORGY, DR. EDWARD W(ILLIAM), b. Pittsburgh, Pa, Sept. 13; 28; m. 56; c. 1. STATISTICS, EXPERIMENTAL PSYCHOLOGY. B.A, Stanford, 50; M.A, Oregon, 53, fel, 55-57, Ph.D, 60. Asst. counseling center, Oregon, 50-51; leadership res. unit, HumRRO, Calif, 53-55; admin. analyst, personnel res, Prudential Ins. Co, 57-60; STATIST. CONSULT, HEALTH SCI. COMPUT. FACILITY, CALIFORNIA, LOS ANGELES, 60- Nat. Inst. Gen. Med. Sci. res. fel, 63-65. U.S.A, 53-54. Psychol. Asn; Statist. Asn; Biomet. Soc. Statistical prediction and decision problems, particularly development of systems to screen individual risks; multivariate cluster analysis; conversational data analysis; evaluating effects of therapies. Publ: Fighter I: a study of effective and ineffective combat; Follow up after three years of clients counseled by two methods, J. Counseling Psychol; co-auth, Development of numerical credit evaluation systems, J. Am. Statist. Asn, 63. Address: 1024 Gretna Green Way, Los Angeles, Calif. 90049.

FORKER, DR. OLAN DEAN, b. Kendallville, Ind, Aug. 18, 28; m. 51; c. 3. AGRICULTURAL ECONOMICS. B.S, Purdue, 50; M.S, Mich. State, 58; Ph.D.(agr. econ), California, Berkeley, 62. Fieldman, Halderman Farm Mgt. Serv, Inc, Ind, 54-58; res. assoc. agr. mkt, California, Berkeley, 58-60, exten. economist, 61-65; ASSOC. PROF. AGR. ECON, CORNELL, 65- Res. asst, Mich. State, 57-58. Consult, various commercial firms; agr. cmt, Calif. State Assembly; Agency Int. Develop. Study Mission, Turkey, 67. U.S.A, 50-53, Res, 53-, Maj. Asn. Agr. Econ. Price analysis and forecasting; marketing efficiency; industrial organization; regulation of agricultural prices and marketing. Publ: Co-auth, Temporal deterioration of research data on costs, J. Farm Econ, 2/61; auth, Economic adjustments for California's manufactured dairy products industry, Calif. Agr. Exp. Sta. Bull, 8/65; co-auth, An economic evaluation of methods used under marketing order legislation, Cornell Dept. Agr. Econ, 4/67. Address: 111 Randolph Rd, Ithaca, N.Y. 14850.

FORKOSCH, PROF. MORRIS D(AVID), b. New York, N.Y, Feb. 26, 08; m. 34; c. 2. ECONOMICS, LAW. LL.B, St. John's (N.Y), 30, LL.M, 32; B.A, N.Y. Univ, 36, M.A, 38, J.S.D, 48; Ph.D.(econ), New Sch. Soc. Res, 52, M.S.Sc. 58. PROF. econ, Walter Hervey Jr. Col, 47-50; LAW, BROOKLYN LAW SCH, 49-, CHMN. DEPT. PUB. LAW, 51- Prof, Latin Am. Inst, N.Y, 47-50; referee, small claims court, Civil Court, New York, 55- Consult, Nat. Labor Rels. Bd, 63; spec. trial exam, N.Y. State Labor Rels. Bd, 64. Mem, adv. cmt. mod. & simplification practice & procedure, Temporary Cmn. Courts, 55-; panel mediators, Fed. Mediation & Conciliation Serv, 60- U.S.A, 44-47, Lt. Econ. Asn; Polit. Sci. Asn; Hist. Asn; Indust. Rel. Res. Asn; Soc. Legal Hist; Acad. Polit. Sci. Labor; antitrust; political science; idea of justice; equal protection; due process of law. Publ: Administrative law, 56; Constitutional law, 63; Labor law, 2nd ed, 65. Address: Brooklyn Law School, 375 Pearl St, Brooklyn, N.Y. 11201.

FORM, PROF. WILLIAM H(UMBERT), b. Rochester, N.Y, June 2, 17; m. 42; c. 2. SOCIOLOGY. A.B, Rochester, 38, A.M, 40; Ph.D, Maryland, 44. Instr, Maryland, 43-44; asst. prof, Stephens Col, 44-45; Kent State, 45-47; from assoc. prof. to PROF. SOCIOL. & res. dir. labor & indust. rels. center, MICH. STATE, 59-61, RES. PROF, 62-, CHMN. DEPT, 65- Soc. Sci. Res. Coun. Res. fel, 60; Fulbright res. award, Turin, Italy, 61; Nat. Sci. Found. grants, 61-63, 67. Sociol. Asn; Indust. Rels. Res. Asn; Sociol. Res. Asn. Industrial occupational and urban sociology; comparative analysis of industrial workers in countries at different levels of industrialization. Publ: Industry, labor and community; Man, work and society; Industrial sociology. Address: Dept. of Sociology, Michigan State University, East Lansing, Mich. 48823.

FORMAN, DR. MARTIN J(OSEPH), b. Philadelphia, Pa, Oct. 16, 25; m. 52. SOCIOLOGY. B.A, Temple, 50; Harrison fel, Pennsylvania, 51-52, M.A, 52, Ph.D, 60. Instr. sociol, Pennsylvania, 52-56, asst. psychiat, grad. sch. med, 54-56; assoc. prof. sociol, Nat. Taiwan Univ, 57-59; ed. adv, Repub. China, 60-61, relief & soc. welfare adv, 61-62; CHIEF, FOOD FOR PEACE DEVELOP, AGENCY INT. DEVELOP, 62-, DIR. NUTRIT. & CHILD FEEDING, 67- Res. dir, The Lighthouse, 54-56; dir. Int. House of Taipei, Taiwan, 57-59. Superior Honor award, U.S. Dept. State, 65; Medal of Merit, Rep. Brazil, 65. U.S.A.A.F, 43-46. Sociol. Asn; Acad. Polit. & Soc. Sci; Gerontol. Soc; Pub. Health Asn. Social work programs; children; family; evaluation research; race relations; gerontology; economics of malnutrition; cultural

factors in malnutrition. Publ: Problems in overseas school feeding programs, Am. J. Pub. Health, 65; Operation Ninos-child feeding in Latin America, Am. Dietetic Asn, 66; Enrichment and food for peace, Cereal Sci. Today, 66. Address: Office of the War on Hunger, Agency for International Development, Washington, D.C. 20523.

FORMAN, PROF. ROBERT E(DGAR), b. Minneapolis, Minn, July 17, 24; m. 45; c. 3. SOCIOLOGY, ANTHROPOLOGY. B.A, Minnesota, 48, M.A, 49, Ph.D, 59. Instr. sociol, Minnesota, Duluth, 49-50; asst. prof, St. Olaf Col, 51-58; student personnel worker, Minnesota, 55-58, asst. for. student adv, 58-59; asst. prof. sociol, Rockford Col, 59-61; WIS. STATE, OSHKOSH, 61-63, assoc. prof. SOCIOL. & ANTHROP, 63-65, PROF, 65-, CHMN. DEPT, 63- U.S.A, 44-46. Sociol. Asn. Urban sociology; attitudinal aspects of migration; collective behavior in crisis situations; juvenile delinquency. Publ: Co-auth, The university and its foreign alumni, Univ. Minnesota, 64 & Neighborhood interaction in a homogeneous community, Am. Sociol. Rev; Resignation as a collective behavior response, Am. J. Sociol, 63. Address: Dept. of Sociology & Anthropology, Wisconsin State University, Oshkosh, Wis. 54901.

FORMAN, DR. SHEPARD L(EWIS), b. Boston, Mass, Mar. 10, 38; m. 67. ANTHROPOLOGY. B.A, Brandeis, 59; Nat. Defense For. Lang. fel, 60-61, 63-64, M.A, 61, Fulbright fel, 61-62, Korvette res. award, 62-63, Fulbright-Hayes fel, 64-65; Nat. Inst. Ment. Health fel, Columbia, 65-66, Ph.D.(anthrop), 66. Summer instr. Brazilian studies, Florida, 64; instr. ANTHROP, INDIANA, 66-67, ASST. PROF, 67- Summer, Agr. Develop. Coun. res. grant, Brazil, & Ford Int. res. grant, 67. Consult, Exp. in Int. Living, Peace Corps Training Center, Vt, 64-; Peace Corps Training Centers, Wisconsin, Milwaukee, 66- Anthrop. Asn; Asn. Latin Am. Studies. Latin American Studies; social anthropology; peasant society and culture; economic anthropology; Brazilian peasant society and the structure of rural peasant markets; social change. Publ: Anthropology and sociology in northeast Brazil, Brazil Res. Guide, Columbia Univ, 66; Cognition and the catch, Ethnology, 67. Address: Dept. of Anthropology, Indiana University, Bloomington, Ind. 47401.

FORNELL, PROF. EARL WESLEY, b. Laketown, Wis, Nov. 12, 15; m. 47. POLITICAL SCIENCE. B.A, New Sch. Soc. Res, 48, M.A, 49; A.M, Columbia, 50; Ph.D, Rice Univ, 56. Documents specialist, int. law library, Columbia, 48-50; head dept, govt, Amarillo Jr. Col, 50-52; instr, POLIT. SCI, Rice, 52-56; assoc. prof, LAMAR STATE COL, 56-62, PROF, 62- Res. grants, Ford Found, 60 & 64, Moody Found, 65-68. Annual award for Civil War res, Daughters of Confederacy, 55. U.S.A.A.F, 41-46; Silver Star Medal, Presidential citation, Bronze Star Medal, Battle Stars & Oak Leaf Cluster, 43-46. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Political and social history; political, economic, social development and financial history of the Texas Gulf Coast; confederate seaport strategy during the Civil War; geopolitics of Gulf Coast and mid-continent area. Publ: The Galveston era, 60 & The unhappy medium, 64, Univ. Texas; contrib, Encyclopedia Britannica, 60 & 67. Address: 539 14th St, Beaumont, Tex. 77702.

FORRESTER, PROF. JAY W(RIGHT), b. Anselmo, Nebr, July 14, 18; m. 46; c. 3. INDUSTRIAL MANAGEMENT. B.Sc, Nebraska, 39, hon. D.Eng, 54; M.Sc, Mass. Inst. Tech, 45. Teacher, elec. lab, MASS. INST. TECH, 39-40, high voltage res, 39-40, servomech. res, 40-45, assoc. dir, servomech. lab, 45-51, dir. digital computer lab. & div. head, Lincoln Air Defense Lab, 51-56, PROF. MGT, 56- Dir, Boston Co; Boston Safe Deposit & Trust Co. Fel. Inst. Elec. & Electronic Eng; Nat. Acad. Eng; Econ. Asn; Acad. Mgt; Phys. Soc; Inst. Mgt. Sci. Digital computer; hydraulic and electrical servomechanisms; dynamics of industrial and economic behavior; structure and principles of social systems. Publ: Industrial dynamics, M.I.T. Press, 61; Digital information storage in three dimensions using magnetic cores, J. Appl. Phys, 1/51; A new corporate design, Indust. Mgt. Rev, fall 65. Address: Massachusetts Institute of Technology, Cambridge, Mass. 02139.

FORRIN, DR. BERT, b. Toronto, Ont, Feb. 20, 30. PSYCHOLOGY. B.A, Toronto, 52; Woodrow Wilson fel, Michigan, 52-53, M.A, 53, Rackham fel, 53-54, Ph.D, 58. Instr. PSYCHOL, Michigan, 55-58; asst. prof, Texas, 58-61; Washington, (Seattle), 61-64; ASSOC. PROF. SCARBOROUGH COL, TORONTO, 64- Psychol. Asn. Learning theory; information processing behavior; education of the superior college student. Address: Dept. of Psychology, Scarborough College, West Hill, Ont, Can.

FORSLUND, DR. MORRIS ALLAN, b. Janesville, Wis, Sept. 26, 35; m. 59; c. 3. SOCIOLOGY. B.A, Yale, 58, M.A, 59, Ph.D.(sociol), 66. Instr. sociol. & anthrop, Connecticut, Stamford, 62-66; ASST. PROF. SOCIOL, NEW MEXICO, 66- Sociol. Asn. The Negro and crime. Address: Dept. of Sociology, University of New Mexico, Albuquerque, N.Mex. 87106.

FORSTALL, RICHARD L(OTHROP), b. Chicago, Ill, Oct. 8, 26. GEOGRAPHY. Ph.B, Chicago, 47. Res. geogr, cartog. res. dept, RAND McNALLY & CO, 51-54, res. ed, cartog. res. dept. & ed, Commercial Atlas, 54-58, 60-61, consult, Commercial Atlas, 58-59, mgr. geog. res. dept, 61-66, ed, Commercial Atlas, 61-67, SR. RES. ED, CARTOG. DIV, 61-, ED, INT. ATLAS & ED. ADV, COMMERCIAL ATLAS, 67- Res. geogr, Univ. California, 58-59. Asn. Am. Geog; Am. Geog. Soc; Pop. Asn. Am; Statist. Asn; Sociol. Asn; Am. Name Soc; Regional Sci. Asn; Urban & Regional Info. Systs. Asn. Metropolitan areas, especially geographic and demographic characteristics; regional population distribution, especially of United States; regional and industrial functions of urban areas. Publ: Co-auth, The world's metropolitan areas, Univ. California, 59; co-auth, Selected demographic, economic, and governmental aspects of the contemporary metropolis, Toronto Bur. Munic. Res, 67; auth, Economic classification of places over 10,000 1960/63, In: Municipal yearbook, 1967. Address: Rand McNally & Co, P.O. Box 7600, Chicago, Ill. 60680.

FORSTENZER, HYMAN M, b. New York, N.Y, Jan. 15, 09; m. 31; c. 1. PSYCHOLOGY. B.A, City Col. New York, 28, M.S, 38; LL.B, Fordham, 31. Chief, field serv. div, Nat. Inst. Soc. Rel, D.C, 45-49; sch. & community coordinator, Bd. Ed, New York, 49-50; ed. dir, State Ment. Health Cmn, N.Y, 50-52, asst. dir, 52-55; asst. dir, community ment. health servs, STATE DEPT. MENT. HYG, 55-58, dir, 58-61, coordinator ment. health progs, 61-63, asst. cmnr. ment. health resources & policy planning, 63-66, SECOND DEP. CMNR, 66- Lectr, sch. pub. health, col. physicians & surgeons, Columbia, 62-; asst. clin. prof, N.Y. Med. Col, 63- Mem. task force prog. develop, Joint Cmn. Ment. Health Children, 66- Fel. Orthopsychiat. Asn; fel. Pub. Health Asn. Social ecology and epidemiology of mental health. Publ: Guide to control methods for mental disorders; co-auth, Community mental health center Joint Info. Serv, 64 & A plan for a comprehensive mental health and mental retardation program for New York State, N.Y. State Dept. Ment. Hyg, 65. Address: State Dept. of Mental Hygiene, Holland Ave, Albany, N.Y. 12208.

FORSTER, DR. CECIL R(EEVES), b. Brooklyn, N.Y, Apr. 21, 11; m. 40; c. 2. PSYCHOLOGY. B.S, N.Y. Univ, 36, M.A, 38, Ph.D, 55. Chief counseling psychologist, Vet. Admin. Hosp, 51-65; regional dir, neighborhood youth corps, U.S. Dept. Labor, 65-67, spec. asst. to adminstr, bur. work progs, 67; ASST. PROF. PSYCHIAT, N.Y. MED. COL, 67- U.S.C.G, 42-45. Psychol. Asn; Rehab. Asn. Counseling; vocational rehabilitation. Address: Dept. of Psychiatry, New York Medical College, Fifth Ave. at 106th St, New York, N.Y. 10029.

FORSTER, PROF. JOHN M, Soc. Anthrop, Sociol, see 10th ed, Soc. & Behav. Vols.

FORSTER, DR. MILTON C(HARLES), b. Des Moines, Iowa, Sept. 19, 06; m. 35. PSYCHOLOGY, STATISTICS. A.B, Oberlin Col, 30; M.A, Minnesota, 31; fel, Yale, 31-32, Ph.D, 34. Res. asst, med. sch, Yale, 32-34; asst, Fed. Emergency Relief Admin, 34-35; fed. coordinator res. projs, Fed. Works Progress Admin, 35-39, chief, ed. & univ. res. proj, 39-41; prin. surv. adv, War Prod. Bd, 41-42, asst. chief gen. statist. staff, 43; chief instnl. anal. div, vet. admin, 46-48, chief res. div, admin. & prog. statist, 48-54, dir. reports & statist. serv, 54-61, res. statist. serv, vet. pop. & prog. eval, controller's off, 61-67; STATIST. & RES. CONSULT, 67- Adv, Fed. Coun. Aging, 59-61, tech. consult, income maintenance group, White House Conf. Aging, 59-61, resources consult, 61. U.S.N, 43-45, Lt. Statist. Asn. Social, economic and demographic status of veterans and their survivors; state, national and international veteran programs; aging; welfare and income maintenance; social surveys and top management reporting. Publ: Chart book, White House conference on aging; co-auth, Six rural problem areas; Veterans in the United States-1960, House Cmt. Printing, Vet. Affairs, U.S. Cong, 67. Address: Bloomhill Farm, Route 1, Box 246, Manassas, Va. 22110

FORSTER, PROF. WALTER OTTO, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FORSTON, DR. RAYMON C, b. Alvarado, Tex, June 15, 23. SOCIOLOGY. B.A, Tex. Wesleyan Col, 45; M.A, Columbia, 46; Ford faculty fel, Indiana, 51-52, Ph.D.(sociol), 62. Prof. SOCIOL, Tex. Wesleyan Col, 57-62; ASSOC. PROF, East Texas State, 62-66; NORTH TEXAS STATE, 66- Mem, Soc. Founds. Ed. Cmt, South. Regional Ed. Bd, 65-67. U.S.A, 43-45. Sociol. Asn. English Puritanism in sixteenth century; American sub-cultures; parole success and failure in Texas. Address: 1314 W. Oak, Apt. 2, Denton, Tex. 76201.

FORSYTH, DR. DANIEL M(ARTIN), b. Rumford, Maine, July 21, 31; m. 60. EXPERIMENTAL PSYCHOLOGY. B.A, Hopkins, 57, M.A, 58, Ph.D, 59. Instr. psychol, McCoy Col, Hopkins, 59-61, res. assoc. ed, univ, 61-62; asst. prof. psychol, Goucher Col, 60-62; sr. scientist, Decision Sci. Lab, Mass, 62-63; dir. life sci, Info. Int, Inc, Mass, 63-65; res. fel, center cognitive studies, HARVARD, 65-66; RES. ASSOC. PSYCHOL, 67- U.S. Pub. Health Serv. res. fel, Nat. Inst. Ment. Health, 59-60. U.S.A, 52-55. AAAS; Psychol. Asn; Optical Soc. Perception; psycholinguistics; cognitive processes. Address: Dept. of Psychology, Harvard University, 33 Kirkland St, Cambridge, Mass. 02138.

FORSYTH, DR. GEORGE ALFRED, b. Kearny, N.J, July 10, 39; m. 65. PSYCHOLOGY. B.A, Dickinson Col, 61; M.S, N.C. State, 63; Nat. Sci. Found. summer fel, Univ. Res. Found. fel. & Ph.D.(psychol), Purdue, 67. Asst. prof. PSYCHOL, Purdue, 67; ASST. PROF. & CENT. UNIV. RES. FUND GRANT, NEW HAMPSHIRE, 67- Psychol. Asn; Psychomet. Soc. Psychophysical study of selective perceptual attention. Publ: Co-auth, Isolation effects when paired associates are presented serially, J. Exp. Psychol, 65; auth, Stimulus correlates of tachistiscopic discrimination-recognition performance: compactness, jaggedness and areal asymmetry, 67 & Stimulus recognizability judgements as a function of the utility of physical dimensions in recognition-discrimination problems, 68, Perception & Psychophys. Address: 53 Frost Dr, Durham, N.H. 03824.

FORSYTH, DR. RALPH, Physiol. Psychol, see 11th ed. Phys. & Biol. Vols. & Suppl. II.

FORSYTHE, DR. EDWIN J, b. Worland, Wyo, Oct. 7, 21; m. 52; c. 3. INDUSTRIAL RELATIONS, ECONOMIC HISTORY. A.B, Missouri, 41, A.M, 49, Ph.D.(econ. hist, indust. rels), 56; Wisconsin, 50. Instr. econ. & polit. sci, Christian Col, 50-52; Missouri, 52-54; res. assoc. econ. & pub. admin, inst. pub. admin, Michigan, 54-56; from asst. prof, indust. rels. to prof, WAYNE STATE, 56-67, ASST. TO PRES. & SECY. BD. GOV, 66- Consult, President's Cmt. Equal Employ. Opportunity, 63-65. Assoc. Dir, inst. labor & indust. rels, Univ. Michigan-Wayne State, 56-66; chmn, Gov. Cmn. Employ. Probs. Older Workers, Mich, 57-59; pub. mem, Study Cmt. Workmen's Compensation, Mich, 64-65; mem, Cmn. Standards & Accreditation Serv. for Blind, 65-66; chmn, fact-finding Cmt. Gardner-Denver Strike. U.S.N, 42-47, Lt. Comdr. Acad. Arbit; Acad. Mgt; Indust. Rels. Res. Asn. Labor relations in Europe; industrial and labor history; collective bargaining. Publ: Collective bargaining in Western Europe, Labor Law J, 63; Managing by objectives, Wayne State, 64; Profile of Detroit and Michigan economy, Mich. Bus. Rev, 65. Address: Dept. of Management, Wayne State University, Detroit, Mich. 48202.

FORSYTHE, DR. SIDNEY ALEXANDER, b. Lexington, Ky, July 7, 20; div; c. 3. SOCIOLOGY. A.B, Kentucky, 42; B.D, South. Baptist Theol. Sem, 46; M.A, Louisville, 49; gen. ed. bd. fel, Harvard, 51-53, Ph.D.(soc. sci), 63. Instr. SOCIOL, Ala. Col, 46-49, asst. prof, 49-54; assoc. prof, Queens Col.(N.C),

54-57; asst. prof. WHEATON COL.(MASS), 57-64, ASSOC. PROF, 64-, CHMN. DEPT, 67- Sociol. Asn. Criminology; social stratification; East Asian social structure; sociology of literature. Publ: Exploratory study of letters to the editor and their contributors, Pub. Opinion Quart. Address: Dept. of Sociology & Anthropology, Wheaton College, Norton, Mass. 02766.

FORTENBERRY, PROF. CHARLES NOLAN, b. Oakvale, Miss, Sept. 18, 08; m. 38; c. 2. POLITICAL SCIENCE. B.A. & M.A, Mississippi, 31; Ph.D. (polit. sci), Illinois, 37. Asst. polit. sci, Illinois, 35-36; instr. govt, Pan Am. Col, 37-39; Agr. & Mech. Col, Tex, 39-40; asst. prof, N.Tex. State Col, 40-42, assoc. prof, 42-46; POLIT. SCI, MISSISSIPPI, 46-49, PROF, 49-, CHMN. DEPT, 58-, dir. res. pub. admin. & bus, 55-57, acting dean grad. sch, 57-58. Summer vis. prof, Alabama, 57. U.S.A.A.F, 42-46, Res, 46-, Lt. Col. Polit. Sci. Asn. State and local government; political parties. Publ: Handbook of Mississippi legislators guidebook of the chancery clerk; co-auth, Government and administration of Mississippi and Yesterday's constitution today. Address: Box 241, University, Miss. 38677.

FORTENBERRY, JEWELL W, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

FORTH, MILBURN L, Econ, see 10th ed, Soc. & Behav. Vols.

FORTIER, DR. DAVID HARRY, b. Bellerose, N.Y, Sept. 19, 20; m. 50; c. 2. ANTHROPOLOGY. B.A, Columbia, 49, Ford Found. fel, 53, Ph.D.(anthrop), 64. ASST. PROF. ANTHROP, MASSACHUSETTS, AMHERST, 62- Ford Found. travel & res. grant, 65; consult. & lectr, Peace Corps Training Prog, Hawaii, 65. U.S.C.G.R, 42-45. Fel. Anthrop. Asn; Ethnol. Soc; Asn. Asian Studies. Overseas Chinese in Borneo; cultural ecology; rural socio-economic systems; East and Southeast Asia; problems of culture change. Publ: Chinese in British North Borneo, In: Colloquium on overseas Chinese, Inst. Pac. Rels, 58. Address: Dept. of Anthropology, Machmer Hall, University of Massachusetts, Amherst, Mass. 01003.

FORTIER, DR. J(OSEPH) J(EAN), b. Fresno, Calif, Apr. 2, 23. PSYCHOLOGY. A.B, Fresno State Col, 50; M.Sc, Oregon, 51; Ph.D. Stanford, 56. Instr. psychol, Fresno State Col, 53-56; bus. fel, Bullocks, Inc, 56; asst. prof. PSYCHOL, San Francisco State Col, 57-66; ASSOC. PROF, SONOMA STATE COL, 66- Res. consult, Can. Ment. Health Asn, 52. U.S.A, 43-45. Psychol. Asn. Effects of manifest text anxiety on difficult serial learning; treatments in sensitivity training; humanistic approaches to psychology trainees; program development in graduate psychology emphasizing creativity; experiments with the arts and humanities in encounter workshops. Address: Dept. of Psychology, Sonoma State College, 1801 E. Cotati Ave, Rohnert Park, Calif. 94928.

FORTIER, DR. ROBERT H(UGH), b. Shreveport, La, Sept. 13, 24; m. 49; c. 2. CLINICAL PSYCHOLOGY. B.S, Western Reserve, 47, Ph.D.(clin. psychol), 52; fel, Roscoe B. Jackson Mem. Lab, 51-52. Clin. psychol. intern, Vet. Admin. Hosp, Northampton, Mass, 52-54, staff clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Phila, 54-57, Vet. Admin. Hosp, Buffalo, N.Y, 57-60; div. ment. health, Dept. Pub. Health, Santa Fe, N.Mex, 60-61; chief psychologist, Vet. Admin. Ment. Hyg. Clin, 61-66; ASSOC. PROF. PSYCHOL, PURDUE, INDIANAPOLIS CAMPUS, 66- U.S.A, 43-46, 2nd Lt. AAAS; Psychol. Asn; Acad. Psychother; Soc. Group Psychother. & Psychodrama. Personality development; learning disability and psychotherapy. Publ: Response to color and ego functions, Psychol. Bull. Address: Purdue University, Indianapolis Campus, Indianapolis, Ind. 46205.

FORTIN, DR. GERALD A(DELARD), b. Quebec, Que, Dec. 9, 29; m. 52; c. 3. SOCIOLOGY. B.A, Laval, 49, B.S.Sc, 52, M.S.Sc, 54; Ph.D.(sociol), Cornell, 56. Adj. prof. SOCIOL. & ANTHROP, LAVAL, 56-62, assoc. prof, 62-67, PROF, 67-, CHMN. DEPT, 66-, COORDINATOR DEVELOP. SECT, INST. ADV. HUMANE SCI, 67- Mem. Can. Coun. Rural Develop, 65- Can. French Lang. Sociol. & Anthrop. Asn; Int. French Lang. Sociol. Asn; Int. Asn. Sociol. Methodology of the social science; industrial sociology; economic behavior. Publ: Co-auth, Le comportement économique des familles salaries du Quebec, Univ. Laval, 64; auth, La Professionalisation du travail en forêt Recherches Sociographiques; Le défi d'un monde rural nouveau, Can. Coun. Agr. Econ. Res, 66. Address: Faculty of Social Science, University of Laval, Quebec, 10, P.Q, Can.

FORWARD, DR. CHARLES N(ELSON), b. Halifax, N.S, Nov. 25, 27; m. 57. GEOGRAPHY. B.A, British Columbia, 49, M.A, 52; Ph.D, Clark, 58. Head east. sec, geog. br, Can. Dept. Mines & Tech. Surv, 53-59; ASSOC. PROF. GEOG, VICTORIA (B.C), 59- Can. Coun. Urban & Regional Res. res. grant, 66-67; Can. Coun. res. grant, 67-68. Asn. Am. Geog; Can. Asn. Geog. (treas, 56-58); Asn. Pac. Coast Geog. Urban and port geography; sea ice distribution; land use mapping; geography of Newfoundland and Vancouver Island regions. Publ: Ice distribution in the Gulf of St. Lawrence during the break-up season & Shipping trade of Newfoundland, Geog. Bull; Newfoundland, In: Encyclopedia Britannica. Address: 3184 Woodburn Ave, Victoria, B.C, Can.

FOSBERG, PROF. IRVING ARTHUR, b. New York, N.Y, Jan. 22, 16; m. 45; c. 3. PSYCHOLOGY. B.S, N.Y. Univ, 37, Ph.D.(psychol), 40; M.A, Columbia, 38. Consult. psychologist, N.Y, 40-41; asst. prof. psychol. & dir. personnel & guid, Farragut Col, 46-47; asst. prof. psychol, & dir. bur. psychol. servs, Tulane, 47-49; chief clin. psychologist, Vet. Admin. Hosp, New Orleans, 49-57; PRES, PSYCHOL. SERV. CENTER NEW ORLEANS, INC, 55-; PROF. INDUST. PSYCHOL, LOYOLA (LA), 67- Carnegie grant-in-aid, 47-48; vis. prof, Tulane, 60-62; Loyola (La), 60-61. U.S.N.R, 41-46, Res, 46-, Comdr. AAAS; Psychol. Asn; Soc. Proj. Tech. Projective techniques in psychodiagnosis. Publ: Place of the symbolic process in projective techniques; Experimental investigation of the reliability of the Rorschach psychodiagnostic technique; Four experiments with the Szondi test. Address: Psychological Service Center of New Orleans, Inc, 8116 Hampson St, New Orleans, La. 70118.

FOSBERG, MORTON F(REDERIC), b. New York, N.Y, May 3, 19; m. 46; c. 2. SOCIOLOGY. Rockefeller fel. & M.A, Columbia, 40. Exam. asst, New York Civil Serv. Cmn, 40-41; asst, Off. Radio Res, N.Y, 41-42; chief analyst, attitude res. sect, U.S. Dept. War, 46-47; chief res. br, Off. Mil. Govt, Hesse, Germany, 47-48; chief statist. res. sect, Int. Broadcasting Serv, 49-54; chief res. staff, off. pub. affiars, U.S. Embassy, Bonn, Germany, 54-59, prog. res. officer, Havana, Cuba, 59-60; regional res. officer, U.S. Info. Serv, Lima, 60-63; U.S. Army War Col, 63-64; assoc. dean center area & country studies, U.S. Dept. State For. Serv. Inst, 64-67; BR. PUB. AFFAIRS OFFICER, U.S. INFO. SERV, GUAYAQUIL, 67- U.S.A, 42-46, Lt. Sociol. Asn. Public opinion research; social psychology; statistics. Address: U.S. Information Service Guayaquil, c/o Dept. of State, Washington, D.C. 20521.

FOSCUE, PROF. A(UGUSTUS) W(ILLIAM), JR, Statist, Acct, see 10th ed, Soc. & Behav. Vols, deceased 64.

FOSCUE, PROF. EDWIN JAY, b. Camden, Ark, Aug. 26, 99; m. 25. GEOGRAPHY. B.A, Southern Methodist, 22; M.S, Chicago, 25; fel, Clark, 26-27, 30-31, Ph.D.(geog), 31. Instr. GEOG, SOUTHERN METHODIST, 23-24, asst. prof, 24-31, assoc. prof, 31-38, prof, 38-65, EMER. PROF, 65- Asst. dir, U.S. Bd. Geog. Names, U.S. Dept. Interior, 43-44. U.S.A, 17-19. AAAS; Asn. Am. Geog; fel. Geog. Soc. Regional geography of Anglo-America, lower Rio Grande Valley of Texas, Southern Appalachians, Central Mexico, Colorado Rockies, Texas Gulf Coast. Publ: Co-auth, Regional geography of Anglo-America, Prentice-Hall, 43, 2nd ed, 54, 3rd ed, 64; auth, Taxco: Mexico's silver city, Univ. Press Dallas, 47; East Texas: a timbered empire J. Grad. Res. Center, 60. Address: Dept. of Geography, Southern Methodist University, Dallas, Texas. 75222.

FOSEN, DR. ROBERT H(ARLAN), Sociol, see 10th ed, Soc. & Behav. Vols.

FOSHEE, DR. DONALD P(RESTON), Physiol. Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

FOSKETT, PROF. J(OHN) M(cKENZIE), b. Napa, Calif, July 22, 09. SOCIOLOGY. A.B, California, 32, A.M, 35, Ph.D, 39. Instr, Idaho, 36-41; personnel officer, U.S. Govt, 41-46; PROF. SOCIOL, OREGON, 46- Sociol. Asn. Sociological theory; history of social thought. Publ: Co-auth, Educational administration in a changing community, Am. Asn. Sch. Admin, 59 & The social sciences view school administration, Prentice-Hall, 65; auth, The normative world of the elementary school teacher, Univ. Oregon, 67. Address: Dept. of Sociology, University of Oregon, Eugene, Ore. 97403.

FOSMIRE, PROF. FREDERICK R(ANDALL), b. Mission, Tex, June 23, 26; m. 53; c. 4. PSYCHOLOGY. Ph.D.(psychol), Texas, 52. From instr. to asst. prof. psychol, Montana State, 50-54; fel, Univ. Pennsylvania & Vet. Admin. Hosp, Perry Point, Md, 54-56; staff psychologist, Vet. Admin. Hosp, Sheridan, Wyo, 56-58; assoc. prof, PSYCHOL, OREGON, 58-65, PROF, 65-, dir. clin. training prog, 61-66. Participant, Nat. Sci. Found. vis. scientist prog, 62; assoc, Nat. Training Labs, 67- Consult, Vet. Admin, 58-; training & res. consult, Wash. Div. Ment. Health, 62-63; training consult, Mont. Div. Health, 63-64; training & res. consult, Ore. State Bd. Control, 63-; training consult, Idaho Dept. Health, 65-; Parks Job Corps Center, 66; San Francisco Econ. Opportunity Coun, 67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. U.S.N, 44-46. AAAS; Psychol. Asn. Clinical; social. Publ: Co-auth, The social sciences view educational administration, Prentice-Hall, 65; and Word association; common and original response, Science, 63; auth, Clustering as a function of associative commonality, Am. J. Psychol, 65. Address: Dept. of Psychology, University of Oregon, Eugene, Ore. 97403.

FOSS, MURRAY F(ORREST), b. Providence, R.I, Oct. 10, 18; m. 42; c. 2. ECONOMICS. A.B, Harvard, 40; American Univ, 41-45; George Washington, 45. Economist, U.S. Dept. Agr, 40-41; Off. Price Admin, 41-46; Off. Housing Expeditor, 46-47; current bus. anal. div, OFF. BUS. ECON, U.S. DEPT. COMMERCE, 47-49, sect. chief, bus. struct. div, 49-57, asst. chief, 57-61, CHIEF, CURRENT BUS. ANAL. DIV, 61- Ed, Surv. Current Bus, 61- Silver Medal, U.S. Dept. Commerce, 58. Econ. Asn; Statist. Asn. Businessmen's anticipations; business investment; current business analysis. Publ: How rigid are construction costs during recessions, J. Bus; co-auth, Structure and realization of business investment anticipations, In: Quality and economic significance of anticipations data; auth, The utilization of capital equipment, Surv. Current Bus, 6/63. Address: 6209 E. Halbert Rd, Bethesda, Md. 20034.

FOSS, NILES G, b. New York, N.Y, May 28, 25; m. 49; c. 3. MARKETING. B.S, Mich. State, 51. Mgr. customer serv. dept, Dow-Corning Corp, 51-55; dir. mgt. res. area, Battelle Mem. Inst, 55-65; MGR. NEW PROD. PLANNING, ANCHOR HOCKING GLASS CORP, 65- Lectr, Capital Univ, 59-60. U.S.A.A.F, 43-45, Sgt. Soc. Plastics Indust; Mkt. Asn; Nat. Asn. Bus. Econ; Mgt. Asn. Management; corporate planning; mergers and acquisitions; packaging; economics; marketing research. Publ: Interdisciplinary research for marketing effectiveness, J. Am. Mkt. Asn, 6/62; Research planning in the packaging field, Soc. Packaging & Handling Engrs. Tech. Pub. 21-62-05, 11/62; The relationship between marketing and technical research, J. Tech. Asn. Pulp & Paper Indust, 5/64. Address: 595 Seabury Dr, Worthington, Ohio 43085.

FOSS, PROF. PHILLIP O(LIVER), b. Maxbass, N.Dak; m. 41; c. 4. POLITICAL SCIENCE. B.A, Washington, 47; M.S, Oregon, 53, Ph.D.(polit. sci), 56. Instr. POLIT. SCI, Oregon, 55-57; asst. prof, San Francisco State Col, 57-60, assoc. prof, 60-62; COLORADO STATE, 62-64, PROF, 64-, CHMN. DEPT, 65- Mgt. analyst, U.S. Bur. Land Mgt, 64-65. Consult, Outdoor Recreation Resources Rev. Cmn, 61. U.S.A.F, 42-46, 51-53, Lt. Col. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; natural resources administration. Publ: Politics and grass, Univ. Washington, 60; Battle of Soldier Creek, Bobbs, 61; Federal agencies and outdoor recreation, Govt. Printing Off, 62. Address: Dept. of Political Science, Colorado State University, Ft. Collins, Colo. 80521.

FOSSELMAN, DAVID H(AROLD), C.S.C, b. Huntington, Ind, Dec. 24, 17. SOCIOLOGY. B.A, Notre Dame, 39; M.S.S.W, Catholic Univ, 47, Ph.D, 52. Instr. sociol, Portland, 50-51, asst. prof, 52-59, assoc. prof, 60-65; ADV, NEWMAN CENTER, SAN JOSE STATE COL, 65- Nat. Guard, 52-65, Chaplain. Sociol. Asn. Social problems; social welfare work; juvenile delin-

quency; intergroup relations. Publ: Transitions in the development of a downtown parish: a study of adaptations of ecological change. Address: Newman Center, 79 S. Fifth St, San Jose, Calif. 95112.

FOSSLER, PROF. H(AROLD) R(AY), b. Adeline, Ill, May 9, 91; m. 36. PSYCHOLOGY. A.B, Iowa, 21, M.A, 25, Ph.D.(psychol), 28. Asst. prof. PSYCHOL, North. State Teachers Col, 25-27; Wyoming, 28-30; hon. res. assoc, Iowa, 30-31; PROF, SOUTH DAKOTA, 31- Psychol. Asn. Clinical psychology; speech pathology; breathing disturbances during stuttering. Address: Dept. of Psychology, University of South Dakota, Vermillion, S.Dak. 57069.

FOSSUM, M(ENNICK) TRUMAN, b. Maxbass, N.Dak, Mar. 14, 12; m. 49. FLORICULTURE, ORNAMENTAL HORTICULTURE. B.S, Cornell, 40, 46-47; M.S, Ohio State, 41, 41-42; Maryland, 42-43; Purdue, 47-48. Horticulturist, N.Dak. Tuberc. Sanatorium, 33-35; Int. Peace Garden, 34-35; N.Y. Bot. Garden, 36-38; res. asst, floricult. & ornamental hort, Ohio State, 41-42; asst. prof, Maryland, 42-43; hort. adv. & inspector, Fred C. Gloeckner Co, Inc, 43-45; asst. prof. floricult. & ornamental hort. econ, Cornell, 45-49; consult, surv. statistician, agr. economist & spec. agent, floricult. & ornamental hort, U.S. Dept. Commerce, 49-52; agr. economist, Bur. Agr. Econ. & Agr. Mkt. Serv, U.S. Dept. Agr, 52-56; res. dir, Grant Adv, N.Y, 56-58; res. consult, Florists' Tel. Delivery Asn, Mich, 58; res. analyst, Keyes, Madden & Jones Adv, 58-60; ECON. ANALYST, FLORISTS' TEL. DELIVERY ANS, 60- Res. fel, N.Y. State Flower Growers, Inc, 46-48; dir. res. & mem. servs, Soc. Am. Florists, 49-52. Found. Floricult. award, 53; Colman award, 54. AAAS; Soc. Hort. Sci; Royal Hort. Soc. Developing economic information and research program for floriculture and ornamental horticulture at national level. Address: Florists' Telegraph Delivery Association, 900 W. Lafayette Blvd, Detroit, Mich. 48226.

FOSSUM, DR. PAUL R(OBERT), b. Northfield, Minn, May 28, 93. ECONOMICS. A.B, Concordia Col, 15; univ. scholar, Hopkins, 22-23, A.M, 23, Ph.D, 24. Asst. polit. econ, Hopkins, 23-24; asst. prof, Wesleyan, 24-26; assoc. prof, Carleton Col, 26-36; SPEC. LECTR. ECON, PUGET SOUND, 39- Econ. Asn; fel. Royal Econ. Soc. Economic history. Publ: Principles of economic development; Agrarian movement in North Dakota; Tacoma, the city we build. Address: 921 N. Park Dr, Tacoma, Wash. 98403.

FOSTER, PROF. ABRAM J(OHN), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FOSTER, DR. ARNOLD WILLIAM, b. Waterbury, Conn, June 6, 19; m. 44; c. 3. SOCIOLOGY, ANTHROPOLOGY. A.B, Wisconsin, 47; M.A, Washington (St. Louis), 51; Ph.D, London, 61. Asst. prof. sociol, Transylvania Col, 48-61, assoc. prof, 61-63; vis. lectr, Kentucky, 63-64; ASSOC. PROF. SOCIOL. & ANTHROP, STATE UNIV. N.Y. ALBANY, 64- U.S. Merchant Marine, 45, Ens. Sociol. Asn; Anthrop. Asn. Social theory; sociology of art. Address: Dept. of Sociology, State University of New York at Albany, Albany, N.Y. 12203.

FOSTER, DR. ARTHUR LEE, b. Seattle, Wash, May 7, 26; m. 54; c. 2. CLINICAL PSYCHOLOGY. B.S, Washington State, 51; M.A, Houston, 53, Ph.D, 56. Sr. psychologist, State Hosp, Utah, 56-58; staff psychologist, Santa Clara County Pub. Health Dept, 58-62; CLIN. PSYCHOLOGIST, 62- U.S.A.F, 44-46. Psychol. Asn. Psychotherapy; preventive mental health. Publ: Relationship between EEG abnormality, some psychological factors, and delinquent behavior, J. Proj. Tech. Address: 248 Blossom Hill Rd, Los Gatos, Calif. 95030.

FOSTER, DR. AUSTIN, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

FOSTER, DR. BARBARA R(UTH), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 65.

FOSTER, DR. CHARLES G(RAHAM), b. San Francisco, Calif, Aug. 7, 20; m. 47. CLINICAL PSYCHOLOGY. A.B, San Francisco State Col, 44; A.M, Southern California, 47, Ph.D.(clin. psychol), 51. Consult. psychologist, El Monte Med. Center Hosp, 47-49; clin. psychologist, Patton State Hosp, 50-51; SONOMA STATE HOSP, 51-60, CHIEF CLIN. PSYCHOLOGIST, 60- U.S.N.R, 42-46. AAAS; Psychol. Asn; Asn. Ment. Deficiency. Psychological diagnosis; intellectual measurement; projective techniques; group and individual psychotherapy. Address: Sonoma State Hospital, Box 54, Eldridge, Calif. 95431.

FOSTER, CHARLES R(OBERT), b. Czech, July 10, 27; nat. POLITICAL SCIENCE. A.B, Harvard, 49; M.A, Stanford, 51; California; Ohio State. Fulbright res. grant, Germany, 53-54; lectr. govt, Indiana, 54-55, instr, 55-56; cong. fel, Am. Polit. Sci. Asn, D.C, 56-57; asst. prof, Col. William & Mary, 57-59; polit. sci. & pub. admin, Cornell Col, 59-62; vis. assoc. polit. sci, DePauw, 62-63; CHIEF CIVICS & INT. AFFAIRS, NAT. DEFENSE ED. ACT, U.S. DEPT. ED, 64- Summer, South Univs. fel, 59. U.S.A, 44-46. Polit. Sci. Asn. Governments of Western Europe; political parties. Publ: Co-auth, Civil rights and the courts in Germany, Polit. Studies; American government visualized; An inquiry on religion. Address: 200 C St. S.E, Washington, D.C. 20003.

FOSTER, DR. DEAN, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

FOSTER, DR. DOROTHY A(NNE), b. Ann Arbor, Mich, Feb. 7, 29; m. 49; c. 4. PSYCHOLOGY. A.B. & M.S, Michigan, 50, Ph.D.(psychol, zool), 57. Res. assoc, res. inst, OKLAHOMA, 62, COUNSELING PSYCHOLOGIST, 62-, ASST. PROF. PSYCHOL, 64-, adj. asst. prof, 63-64. Animal Behav. Soc. Testing and measurement; animal behavior; experimental methods in psychology. Publ: Co-auth, Study of the 1962 Freshman class, Univ. Oklahoma, 64; auth, Differences in behavior and temperament between 2 races of Deermouse, J. Mammal, 59; co-auth, Failure to complete as a family characteristic, J. Ed. Res, 66. Address: 2526 Brentwood Dr, Norman, Okla. 73069.

FOSTER, DR. EDWARD M(ERVYN), b. Brisbane, Australia, Dec. 17, 33; nat; m. 60. ECONOMICS. B.A, Claremont Cols, 56; Wilson Found. fel, Mass. Inst. Tech, 57-58, Nat. Sci. Found. fel, 58-60, 61, Ph.D.(econ), 61. Lectr. ECON, Boston Col, 60-61; asst. prof, MINNESOTA, MINNEAPOLIS, 61-65, ASSOC. PROF, 65- Consult, U.S. Bur. Budget, 66- Econ. Asn; Economet. Soc. Public finance; macroeconomics, welfare economics. Publ: Sales forecasts and the inventory cycle, Econometrica, 7/63. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

FOSTER, DR. ELIZABETH SMITH, b. Granville, N.Y, June 27, 21. SOCIOLOGY. B.A, Western Reserve, 54; M.A, Ohio State, 55, Ph.D.(sociol), 61; Merrill-Palmer Inst, 57-58. Asst. prof. sociol, Texas Woman's Univ, 60-63; ASSOC. PROF, soc. res, sch. soc. work, Richmond Prfnl. Inst, 63-65; sociol, Eastern New Mexico, 65; RES. METHODS, SCH. SOC. WORK, SACRAMENTO STATE COL, 67- Sociol. Asn; Psychol. Asn. Adult socialization and leisure interests; changing adult roles and age groups. Publ: Educational interests of out-of-school youth, col. ed, Ohio State, 61. Address: School of Social Work, Sacramento State College, Sacramento, Calif. 95819.

FOSTER, EMERY M(ILTON), Statist, see 10th ed, Soc. & Behav. Vols.

FOSTER, PROF. FRED W(ILLIAM), b. Byron, Mich, July 14, 09; m. 47; c. 1. GEOGRAPHY. A.B, Michigan, 32, M.S, 34, Earhart fel, 35-36, univ. fel, 36-37, Ph.D.(geog), 40. Instr. geog. & geol, Flint Jr. Col, 34-35; GEOG, Mich. State Col, 37-42, asst. prof, 46-49; assoc. prof, ILLINOIS, URBANA, 49-54, PROF, 54- Fulbright scholar, Egypt, 53-54, Turkey, 63-64. U.S.N.R, 43-46, Lt. AAAS; Asn. Am. Geog; fel. Geog. Soc; Soc. Photogram; Coun. Geog. Ed; Cong. Surv. & Mapping; fel. Royal Geog. Soc. Land utilization; cartography; Europe and Near East; field methods. Address: Dept. of Geography, University of Illinois, Urbana, Ill. 61801.

FOSTER, DR. GEORGE H(ORTON), b. Mo, Feb. 14, 19; m. 44; c. 2. PSYCHOLOGY. B.S, Idaho, 50, M.S, 52; Ph.D, Washington State, 58. Ed. specialist, U.S. Navy Personnel Res. Field Activity, Calif, 56-57; asst. prof. psychol, Mont. State, 57-59; MEM, Gen. Elec. Adv. Electronics Center, Cornell, 59-63, GEN. ELEC. APOLLO SUPPORT DEPT, FLA, 63- U.S.M.C, 40-46. AAAS; Psychol. Asn; Human Factors Soc; Opers. Res. Soc. Am. Human factors; management. Address: 525 John Anderson, Ormond Beach, Fla. 32074.

FOSTER, DR. GEORGE M(cCLELLAND), JR, b. Sioux Falls, S.Dak, Oct. 9, 13; m. 38; c. 2. ANTHROPOLOGY. B.S, Northwestern, 35, Ph.D.(anthrop), California, 41. Instr. sociol, Syracuse, 41-42; lectr. anthrop, California, Los Angeles, 42-43; ethnologist in charge Mex. off, inst. soc. anthrop, Smithsonian Inst, 43-46, dir, 46-52; vis. prof. ANTHROP, CALIFORNIA, BERKELEY, 53-55, PROF, 55-, acting dir, mus. anthrop, 55-57, chmn. dept. anthrop, 58-61. Guggenheim fel, 49. Fel. Anthrop. Asn; Sociol. Asn; Soc. Appl. Anthrop; Mex. Anthrop. Soc. Spanish and Spanish-American culture; cultural dynamics; applied anthropology; peasant society. Publ: Culture and conquest: America's Spanish heritage, Wenner-Gren Found, 60; Traditional cultures and the impact of technological change, Harper, 62; Tzintzuntzan: Mexican peasants in a changing world, Little 67. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

FOSTER, PROF. GERALD P(ENTLAND), Pub. Admin, see 10th ed, Soc. & Behav. Vols.

FOSTER, DR. GRACE RUTH, b. Swatow, China, Feb. 6, 99; U.S. citizen. PSYCHOLOGY. B.A, Colby Col, 21; M.A, Columbia, 26, Ph.D, 34; summer, Harvard, 27. Teacher high sch, N.Y, 22-28; instr. psychol, Colby Col, 30-35; psychologist, Augusta State Hosp, Maine, 35-47; res. psychologist, Inst. of Living, Conn, 47-50; psychologist, Guid. Bur, Inc, N.Y, 50-60; exten. instr. psychol, Maine, 60-65, emer. prof. psychol. & ed, Inter-Am. Univ. P.R, 65-66; RES. & WRITING, 66- Chmn. cmt. spec. interests of Women Psychologists, Int. Coun. Psychol, 66-67. Psychol. Asn; Soc. Psychol. Study Social Issues; Nat. Coun. Crime & Delinquency. Social change in relation to curricular development in the collegiate education of women; mental hygiene in education. Publ: Emerson on mental health, J. Abnorm. & Soc. Psychol; Psychotherapy of William James, Psychoanal. Rev; Natural history of the will, Am. Scholar. Address: Friendship, Maine 04547.

FOSTER, DR. HARRIET W(ILSON), b. Minneapolis, Minn, Apr. 24, 25. PSYCHOLOGY. B.A, Minnesota, 45; M.A, Columbia, 46; fel, Michigan, 48-50, Ph.D.(psychol), 53. Res. assoc. psychol, Conn. Col, 47-48; res. psychologist, Human Resources Res. Center, Lackland Air Force Base, 50-51; asst. psychol, Michigan, 52-53, res. assoc, 53; res. fel. lang. & communication, Columbia, 53-54; asst. prof. psychol, Vermont, 54-57; assoc. res. psychologist perception, Michigan, 57-62; human factors scientist perception & prob. solving, Syst. Develop. Corp, 62-63; assoc. res. psychologist learning, CALIFORNIA, LOS ANGELES, 63-67, SCHOLAR PSYCHOL, 67- AAAS; Psychol. Asn. Learning; speech. Publ: Co-auth, Transfer to a motor skill from practice on a pictured representation, J. Exp. Psychol; On the relation between similarity and transfer of training in the learning of discriminative motor tasks, Psychol. Rev; Measurement of transfer of training, Psychol. Bull. Address: Apt. 309, 123 California Ave, Santa Monica, Calif. 90403.

FOSTER, DR. H(ARRY) SCHUYLER, b. Somerset, Mass, June 17, 05; m. 33; c. 2. POLITICAL SCIENCE. B.S, Dartmouth Col, 25; A.M, Harvard, 28; Ph.D, Chicago, 32. Instr. polit. sci, Ohio State, 29-35, asst. prof, 36-43; instr. govt, Harvard, 35-36; PUB. OPINION ANALYST, U.S. DEPT. STATE, 43- Soc. Sci. Res. Coun. res. training fel, Eng, 37-38. Polit. Sci. Asn; World Asn. Pub. Opinion Res. American public opinion on international affairs. Address: P/PG Public Opinion Studies, U.S. Dept. of State, Washington, D.C. 20520.

FOSTER, DR. J. RHOADS, b. Wheatland, Mo, Jan. 29, 06; m. 36; c. 4. ECONOMICS, POLITICAL SCIENCE. Ph.D, Missouri, 33. Asst. to rate engr. rate structs. & mkts, N.Y. Edison Co, 33-36; economist, bd. pub. utility cmnrs, State Dept, N.J, 37-42; CONSULT, 42-; PRES, FOSTER ASSOCS, INC, 58- Instr, grad. sch. bus. admin. & sch. law, N.Y. Univ, 38-53. Econ. Asn. Economics of business enterprise, especially cost behavior, pricing markets and problems of governmental price control. Publ: Co-auth, Public utility accounting. Address: Foster Associates, Inc, 1101 17th St, N.W, Suite 500, Washington, D.C. 20036.

FOSTER, DR. JOHN H(ENRY), b. Warwick, R.I, July 1, 26; m. 54; c. 2. AGRICULTURAL ECONOMICS. B.S, Cornell, 50, Ph.D.(agr. econ), 57; M.S, Purdue, 51. Agriculturalist, Am. Friends Serv. Cmn, India, 51-54; asst. prof. AGR. ECON, MASSACHUSETTS, 57-63, ASSOC. PROF, 63- Agr. Econ. Asn; Soc. Int. Develop; Int. Asn. Agr. Econ. Agricultural improvement in underdeveloped areas; international agricultural problems; agricultural change; farm management; resource economics. Address: Dept. of Agricultural Economics, University of Massachusetts, Amherst, Mass. 01002.

FOSTER, DR. JULIAN F.S, b. London, Eng, July 27, 26; m. 57; c. 1. POLITICAL SCIENCE. B.A, Oxford, 51, Fulbright fel, 53-54, M.A, 55; Ph.D(polit. sci), California, Los Angeles, 63. Tutor polit, Oxford, 51-53; vis. lectr, Michigan, 53-54; teaching asst. POLIT. SCI, California, Los Angeles, 54-57; instr, Santa Clara, 57-60, asst. prof, 60-61; CALIF. STATE COL. FULLERTON, 63-65, ASSOC. PROF, 65- Proj. dir, Off. Ed. Coop. Res. Prog. grant, 59-61; Am. Coun. Ed. acad. admin. fel, 67-68. R.N, 45-47. Polit. Sci. Asn. Normative political theory; politics of university administration. Dept. of Political Science, California State College at Fullerton, Fullerton, Calif. 92631.

FOSTER, DR. MARGERY S(OMERS), b. Boston, Mass, Mar. 27, 14. ECONOMICS, STATISTICS. B.A, Wellesley Col, 34, Barrett fel, 55-56; Ph.D, Radcliffe, 58. Asst. to actuary, N.E. Mutual Life Ins. Co, 34-43; dep. comptroller & dir. develop, Wellesley Col, 46-54; lectr. econ, sch. bus. admin, Harvard, 56-58; lectr. econ. & secy. col, Mt. Holyoke Col, 58-64; PROF. ECON. & DEAN COL, Hollins Col, 64-67; DOUGLASS COL, RUTGERS, 67- Mem. cmt. exam, Col. Entrance Exam. Bd, 65-, cmn. tests, 66- U.S.N.R, 43-46, Lt. Econ. Asn; Econ. Hist. Asn; Economet. Soc; Brit. Econ. Hist. Soc. American colonial economic history, history of education; money and banking; fiscal policy; educational administration; public finance; public administration. Publ: Out of smalle beginings. Address: 23 Nichol Ave, New Brunswick, N.J. 08901.

FOSTER, DR. PHILIP J, b. London, Eng, Jan. 22, 27; m. 56; c. 2. SOCIOLOGY, EDUCATION. B.Sc, London Sch. Econ, 48; Northwestern, 48-49; cert, London Inst. Ed, 55; fel, Chicago, 58-60, Ph.D.(comp. ed), 62. Ed. officer, Uganda, 55-58; instr, DEPT. ED, CHICAGO, 60-61, asst. prof, 61-64, ASSOC. PROF, 64-, ASST. DIR, COMP. ED. CENTER, 62- R.A.F, 50-53, Flight Lt. Sociol. Asn; African Studies Asn; Comp. Ed. Soc. The relationship between education and social change in the new nations, especially Africa. Publ: Education and social change in Ghana, Univ. Chicago, Rontledge & Kegan Paul, 65; co-auth, The fortunate few, Northwestern Univ, 66; auth, Sub Saharan Africa, Macmillan, 68. Address: 5701 S. Kenwood, Chicago, Ill. 60637.

FOSTER, PROF. PHILLIPS W(AYNE), b. Alfred, N.Y, Apr. 26, 31; m. 56; c. 2. AGRICULTURAL ECONOMICS. B.S, Cornell, 53; Fulbright grant, India, 53-54; M.S, Illinois, 56; Rockefeller grant, S.Am, 57; Ph.D, Illinois, 58. Asst. prof. AGR. ECON, Mich. State, 57-61; assoc. prof, MARYLAND, 61-67, PROF, 67- Econ. develop. lectr, Agency Int. Develop, 63; seminar lectr, sch. adv. int. study, Hopkins, 66; Fulbright sr. res. grant, India, 67-68. Summers, vis. prof, Garrett Biblical Inst, Northwestern, 59, 60. Consult, surv. in N.Africa, Agr. Develop. Coun, 64, 66, res. in Uganda, 65; seminars, For. Serv. Inst, 65-66. Agr. Econ. Asn; Int. Asn. Agr. Econ. International agriculture; agricultural marketing; public policy. Publ: Research on agricultural development in North Africa, Agr. Develop. Coun, 67; Migrations and agriculture, In: Farmer's world, U.S. Dept. Agr. Yearbook Agr, 64; Analyzing systems of agricultural resource organization, J. Farm Econ, 5/66. Address: Dept. of Agricultural Economics, University of Maryland, College Park, Md. 20742.

FOSTER, DR. ROBERT GEIB, Psychol, see 10th ed, Soc. & Behav. Vols.

FOSTER, DR. ROBERT J(OHN), b. Minneapolis, Minn, Dec. 15, 29; m. 57; c. 3. PSYCHOLOGY. B.A, Texas, 51, M.A, 57, Ph.D, 60; Fulbright scholar, Univ. New Zealand, 51. Training officer, admin. off, U.S. Dept. Navy, 56-57; counseling trainee, testing & counseling center, Texas, 58-59; personnel consult. mgt. servs, Ernest & Ernest, 60-62; SR. SCIENTIST, HUMRRO, GEORGE WASHINGTON, 62-, LECTR, 63- Consult, grad. sch. pub. & int. affairs, Pittsburgh, 65; field assessment officer, Peace Corps Training Center, Puerto Rico, 65-66. U.S.N, 53-56, Res, 56-, Lt. Psychol. Asn; Soc. Psychol. Study Social Issues. Phenomena of change in organizations and societies; attitudes, values and resistance to change; social and organizational planning; sensitivity and inter-cultural training. Publ: Examples of cross cultural problems encountered by Americans working overseas: an instructor's handbook, 65 & co-auth, An analysis of human relations training and its implications for overseas performance, 66, HumRRO; Acquiescent response set as a measure of acquiescence, J. Abnorm. Soc. Psychol, 61. Address: HumRRO, 300 N. Washington St, Alexandria, Va. 22314.

FOSTER, DR. WILLIAM A(BRAM), JR, b. San Francisco, Calif, Apr. 1, 20; m. 43; c. 3. SOCIOLOGY. B.S, California, 42; M.S, Cornell, 47, Ph.D. (rural sociol), 58. Missionary teacher, rural ed, China & P.I, 47-54; asst. rural sociol, Cornell, 55-58; asst. prof. SOCIOL, OREGON STATE, 58-65, ASSOC. PROF, 65- Sociol. Asn; Rural Sociol. Soc; Pop. Asn. Rural-urban sociology; community and social organization; social psychology; socio-economic development; industrial sociology; demography; ecology; deviance; sociological theory; educational sociology; extension education; Southeast Asian studies. Publ: Rural resident community identification and community change over a ten-year period. Address: Dept. of Sociology, Oregon State University, Corvallis, Ore. 97331.

FOTHERINGHAM, PROF. WALLACE C(ROFT), b. Philadelphia, Pa, Jan. 28, 13; m. 39; c. 3. COMMUNICATIONS, PSYCHOLOGY. A.B, Muskingum Col, 35; M.A, Northwestern, 41; Ph.D, Ohio State, 51. Speech clinician, Rochester Sch. Deaf, 36-37; speech pathologist, Mooseheart Lab. Child Res, 37-40; instr. speech, Muskingum Col, 40-42, asst. prof, 42-46; chief inst. training, State Dept. Pub. Welfare, Ohio, 46-47; instr. SPEECH, OHIO STATE, 47-51, asst. prof, 51-56, assoc. prof, 56-64, PROF, 64-, res. assoc, univ. res. found, 54-61. Speech Asn; Psychol. Asn. Development and application of measuring instruments for speech related phenomena. Publ: Perspectives on persuasion, Allyn & Bacon, 66; Measurement of graduate achievement in an area of speech by means of a vocabulary-type test and Technique for measuring speech effectiveness in public speaking classes, Speech Monogr. Address: 1504B Lafayette Dr, Columbus Ohio, 43221.

FOTIS, STEPHEN W, Econ, see 10th ed, Soc. & Behav. Vols.

FOTTLER, DR. MYRON D, b. Boston Mass, Sept. 5, 40. INDUSTRIAL RELATIONS. B.S, Northeastern, 62; M.B.A, Boston, 63; Ph.D.(indust. rels), Columbia, 68. Labor economist, U.S. Dept. Labor, 63; res. asst, Columbia, 64-67; LECTR. INDUST. RELS, STATE UNIV. N.Y. BUFFALO, 67- Asst. dir. exec. progs, Columbia, 65. Indust. Rels. Res. Asn. Development and utilization of manpower; the disadvantaged; health manpower. Address: 319 Crosby Hall, School of Business Administration, State University of New York at Buffalo, Buffalo, N.Y. 14214.

FOULKE, DR. EMERSON, b. Joplin, Mo, Mar. 20, 29; m. 64. PSYCHOLOGY. B.A, Arkansas, 52; Ph.D, Washington (St. Louis), 59. Staff psychologist, Vet. Admin, Neuro-Psychiat. Hosp, Knoxville, Iowa, 59-60; res. assoc. ed. res, Am. Printing House for Blind, Louisville, Ky, 60-61; asst. prof. PSYCHOL, LOUISVILLE, 60-65, ASSOC. PROF, 65- AAAS. Learning theory; tactual and auditory communication. Address: Dept. of Psychology, University of Louisville, Louisville, Ky. 40208.

FOULKES, DR. WILLIAM DAVID, b. East Orange, N.J, May 29, 35; m. 63; c. 1. PSYCHOLOGY. B.A, Swarthmore Col, 57; Nat. Sci. Found. fel, Chicago, 59-60, Ph.D.(psychol), 60. Instr. psychol, Lawrence Col, 60-63; res. assoc. psychiat. & psychol, Chicago, 63-64; asst. prof. PSYCHOL, WYOMING, 64-66, ASSOC. PROF, 66- Nat. Sci. Found. res. grant, 65-68. Psychol. Asn; Asn. Psychophysiol. Study Sleep (exec. secy, 66-69); Soc. Psychol. Study Social Issues. Studies of dream content using electrophysiological means of dream detection; social psychology, especially social cognition and impression formation. Publ: The psychology of sleep, Scribner, 66; Dream reports from different stages of sleep, J. Abnorm. & Soc. Psychol, 62; Theories of dream formation, Psychol. Bull, 64. Address: Dept. of Psychology, University of Wyoming, P.O. Box 3415, University Station, Laramie, Wyo. 82071.

FOURAKER, PROF. LAWRENCE EDWARD, b. Bryan, Tex, Oct. 28, 23; m. 49; c. 2. ECONOMICS. B.A, Agr. & Mech. Col, Tex, 47, M.S, 48; Ph.D, Colorado, 51. Instr. econ, Wyoming, 48-49; from asst. prof. to prof, Pa. State, 51-61; lectr. BUS. ADMIN, HARVARD, 61-62, PROF, 62- Acting dir. econ. prog, Nat. Sci. Found, 60- U.S.A, 43-46, Sgt. Econ. Asn; Economet. Soc. Economic theory; experimental economics, especially testing of conflict and bargaining models under controlled laboratory conditions. Publ: Co-auth, Bargaining and group decision making & Quantitative analysis for business decisions. Address: Harvard Business School, Boston, Mass. 02163.

FOURT, DR. L(OUIS) A(LBERT), b. Lebanon, Mo, Sept. 17, 17; m. 47; c. 2. ECONOMICS. A.B, Missouri, 39; M.A, Chicago, 50, Ph.D.(econ), 59. Asst. prof. agr. econ, N.Dak. Agr. Col, 50-53; client serv. exec, Mkt. Res. Corp. of Am, 53-57, asst. mgr. statist. control dept, 58-60, chief, economet. res, 60-61; asst. mgr, mkt. res, Wilson & Co, Inc, 61; economist, commercial develop. div, ABBOTT LABS, 61-66, MGR. STRATEGIC PLANNING DEPT, CORP. PLANNING DIV, 66- Res. assoc, Univ. Chicago, 57-58. Economet. Soc; Mkt. Asn; Statist. Asn. Marketing economics; market potentials and planning; income and price elasticities of demand for marketing services. Publ: Co-auth, Early prediction of market success for new grocery products. J. Mkt. & North Dakota's dairy marketing problems in historical perspective, N.Dak. Exp. Sta. Bull. Address: Corporate Planning Division, Abbott Laboratories, 14th & Sheridan, North Chicago, Ill. 60064.

FOUTS, DR. GEORGE, b. Gonzales, Tex, Oct. 13, 97. POLITICAL SCIENCE. Ph.D, Chicago, 49. City attorney, Gonzales, Tex, 22-26; asst. prof. polit. sci, Redlands, 29-40, assoc. prof, 40-47; prof. polit. sci. & chmn. div. soc. sci, Northland Col, 48-66; prof. polit. sci, Northern Michigan, 66-67; RETIRED. Polit. Sci. Asn; Hist. Asn. Rural politics. Address: 922 Sixth Ave. W, Ashland, Wis. 54806.

FOWKE, PROF. V(ERNON) C(LIFFORD), Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

FOWLER, BRUCE M(ARSH), Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols, deceased 64.

FOWLER, DR. DON D, b. Torrey, Utah, Apr. 24, 36; m. 63. ANTHROPOLOGY. B.A, Utah, 59, Nat. Defense Ed. Act fel, 59-62; Mellon fel. & Ph.D. (anthrop), Pittsburgh, 65. Archeologist, Univ. Utah, 58-62; asst. prof. ANTHROP, Nevada, 64-67; Nat. Acad. Sci. res. fel, Smithsonian Inst, 67-68; DIR. CENTER WEST. STUDIES, NEVADA, 68- Max C. Fleischman Found. res. grant, desert res. inst, Nevada, 66-67; Nat. Endowment for Humanities res. grant to edit Powell papers, 67-68. Assoc. dir, Nevada-Pittsburgh-Stanford field training prog. cultural anthrop, 64-67. Fel. Anthrop. Asn; Ethnohist. Soc; Soc. Gen. Syst. Res. Ethnology, ethnohistory and archeology of the New World; history of anthropology and the behavioral sciences. Address: Center for Western Studies, University of Nevada, Reno, Nev. 89507.

FOWLER, DR. DONALD LIONEL, b. Spartanburg, S.C, Sept. 12, 35; m. 57; c. 1. POLITICAL SCIENCE. A.B, Wofford Col, 57; M.A, Kentucky, 61, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, SOUTH CAROLINA, 66- Exec. dir, Democratic Party of S.C, 67-68. Adj. Gen.C, U.S.A, 58-60, 61-62, Res, 62-, Capt. Polit. Sci. Asn; Soc. Pub. Admin. Southern state political parties. Address: Dept. of Political Science, University of South Carolina, Columbia, S.C. 29208.

FOWLER, DR. FLOYD J(ACKSON), JR, b. Akron, Ohio, July 4, 39; m. 60; c. 1. SOCIAL PSYCHOLOGY. B.A, Wesleyan, 60; M.A, Michigan, 62, Ph.D.(soc. psychol), 66. Asst. study dir, surv. res. center, Univ. Michigan, 63-65; ASST. DIR, COMMUNITY RES. PROJ. GREATER BOSTON, 65- Lectr, Boston Univ, 65-66. Consult, res. dept, United Community Serv. Greater Boston, 67- Psychol. Asn; Sociol. Asn. Survey research methods; community

studies, needs and attitudes; personality and social interaction. Publ: Co-auth, Comparison of hospitalization reporting in three survey procedures, Nat. Health Surv, Dept. Health, Ed. & Welfare, 63; Role of social norms and leadership in risk-taking, Sociometry, 66; A community survey for long range planning: the Jewish population of Greater Boston, Combined Jewish Philanthropies of Greater Boston, 67. Address: 37 Wolcott Rd, Chestnut Hill, Mass. 02167.

FOWLER, DR. HARRY, b. Philadelphia, Pa, Nov. 15, 34; m. 56; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Pennsylvania, 56; U.S. Public Health Serv. fel, Yale, 57, M.S, 58, Ph.D, 59. Exp. psychologist, U.S. Naval Air Develop. Center, Pa, 56; asst. exp. psychol, Yale, 56-57, asst. instr, 58-59; asst. prof, PITTSBURGH, 59-63, assoc. prof. PSYCHOL, 63-68, PROF, 68- Consult, res. grants psychobiol. div, Nat. Sci. Found, 66- Psychol. Asn; Psychonomic Soc. Learning and motivation; functions of punishment in discrimination learning; stimulus factors affecting exploratory behavior. Publ: Curiosity and exploratory behavior, Macmillan, 65; Satiation and curiosity: constructs for a drive and incentive-motivational theory of exploration, In: The psychology of learning and motivation, Vol. I, Academic, 67; co-auth, The varied functions of punishment in discrimination learning, In: Punishment and aversive behavior, Appleton, (in press). Address: Dept. of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15213.

FOWLER, PROF. I(RVING) A(DOLPH), b. Detroit, Mich, Jan. 17, 23; m. 48; c. 2. SOCIOLOGY. B.A, Wayne, 47, M.A, 49; Ph.D.(sociol), Cornell, 54. Spec. instr. sociol, Wayne, 47-48; asst, Cornell, 48-51; State Ment. Health Cmn, N.Y, 51-53, sr. sociologist, 53-55; res. dir. rural rehab. surv, Upstate Med. Center Syracuse, 55-57; assoc. prof. SOC. WORK, STATE UNIV. N.Y. BUFFALO, 57-66, PROF, 66- Prin. investr. screening elderly nursing home patient probs, U.S. Pub. Health Serv. res. grant, 65-68. Res. consult, Community Welfare Coun. of Buffalo & Erie County, 60- Mem, Coun. Soc. Work Ed. U.S.A, 43-46. Sociol. Asn; Soc. Study Social Probs.(DeRoy award). Industrial sociology, research and statistics; social apsects of mental health; social work research; sociology of social welfare institutions. Publ: Local industrial structures, economic power and community welfare, Soc. Probs; co-auth, Incentive factors in a low morale plant, Am. Sociol. Rev. Address: 24 Huntington Ave, Buffalo, N.Y. 14214.

FOWLER, DR. JOHN A(LVIS), Psychiat, see 11th ed, Phys. & Biol. Vols.

FOWLER, DR. JOSEPH WILLIAM, JR, b. Cambridge, Mass, Mar. 28, 21; m. 50; c. 4. CHILD & CLINICAL PSYCHOLOGY. B.A, Dartmouth Col, 46; Paris, 46-47; M.A, Harvard, 52; Ph.D.(psychol), Chicago, 59. Asst. & intern clin. psychol, Langley Porter Psychiat. Clin, Calif, 51-52; asst. psychol, California, 52-53, Nat. Inst. Ment. Health res. fel, 59-61; clin. psychologist, guid. clin, Alameda County Dept. Probn, Calif, 53-54; instr. & counsr, human develop, cmt. human develop, Chicago, 55-56; dir. nursery sch. ed, Tel. Hill Coop. Nursery Sch, Calif, 57-58; instr. psychol, Yale, 61-62, res. assoc, Merrill-Palmer Inst, Inst. Family Life & Human Develop, Mich, 62-63; asst. prof. ed. & human develop, prin, Lab. Nursery Sch. & dir, Urban Child Center, Chicago, 63-66; ASSOC. PROF. ed. psychol. & guid, Ferkauf Grad. Sch, Humanities & Soc. Sci, Yeshiva, 66-67; APPL. PSYCHOL, ONT. INST. STUDIES IN ED, TORONTO, 67- Mem. study cmt, Div. Eval. & Res, Head-start Eval. & Demonstration Prog. U.S.N, 41-46, Lt. Comdr. Psychol. Asn; Soc. Res. Child Develop. Child development; developmental stimulation of cognitive processes in infancy and early childhood; problems of measurement. Publ: Cognitive learning in infancy and early childhood, Psychol. Bull; A study of process and method in three year old twins and triplets learning to read, Genetic Psychol. Monogr, 65; Concept learning in early childhood, Young Children, 65. Address: Ontario Institute for Studies in Education, University of Toronto, Toronto, Ont, Can.

FOWLER, DR. MANET, b. Ft. Worth, Tex, May 26, 16. CULTURAL & APPLIED ANTHROPOLOGY. B.S, N.Y. Univ, 37; Rosenwald fel, Columbia, 41-43; Bernays Found. fel, Cornell, 50-52; Ph.D, 52. Res. asst-in-charge pub. rels. projs, Edward L. Bernays, N.Y, 43-46; pub. rels. consult, Nat. Urban League, 46-49; consult, rural life coun, Tuskegee Inst. & Health Info. Found, N.Y. 52-53; DIR. RES. HOUSE, 54-; RES. DIR. FAMILY SERV. CENTER & LECTR, SCH. SOC. WORK, SYRACUSE, 67- Lectr, Wash. Sq. Col, N.Y. Univ, 55; Barnard Col, Columbia, 55-57; res. dir, Nat. Insts. Health Proj, State Dept. Health, N.Y, 57-62; asst. prof. anthrop, Bard Col, 65-67. Ed. res. consult, intergroup rels. proj, Cornell, Nat. Conf. Christians & Jews & Life Mag, 55; res. consult, Ment. Hyg. Found, Rockland State Hosp, N.Y, 65. Fel. Soc. Appl. Anthrop; Anthrop. Asn; Pub. Health Asn; Soc. Psychol. Study Social Issues; Ethnol. Soc; Orthopsychiat. Asn; Nat. Asn. Soc. Workers. Applied anthropology studies of human organizations in change, especially in medicine, health, psychiatry, social work, intergroup relations industry and government programs. Publ: Spotlight on Gary, Nat. Urban League, 46; contrib, Strangers next door, Prentice-Hall, 64; co-auth, Studies: appraising public health physicians' training education, N.Y. State Health Dept, 62; plus others. Address: 815 Maryland Ave, Syracuse, N.Y. 13210.

FOWLER, PROF. MARK L(YNDON), b. Casa, Ark, May 27, 23; m. 45; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Arkansas, 51; Ph.D.(agr. econ), California, Berkeley, 61. Jr. specialist AGR. ECON, California, 53-56; asst. prof, Okla. State, 56-61, assoc. prof, 61-63; Texas A&M, 63-66; PROF, TEX. TECH. COL, 66- U.S.A.F, 42-45, S/Sgt. Agr. Econ. Asn; Acad. Polit. & Soc. Sci. Agricultural price analysis; public policy in agriculture; agricultural marketing. Publ: Projections of production and price of pecans in the United States to 1975, Okla. Agr. Exp. Sta. Tech. Bull. T-88, 11/60; The cotton industry, In: Market structure analysis of the agricultural industries, Iowa State Univ, 66; Government programs and the cotton industry, In: Contemporary agricultural marketing, Univ. Tennessee, 1/68. Address: Dept. of Agricultural Economics, Texas Technological College, Lubbock, Tex. 79409.

FOWLER, PROF. MELVIN L(EO), b. Gordon, Nebr, Dec. 3, 24; m. 48; c. 4. ANTHROPOLOGY, ARCHAEOLOGY. B.S, Purdue, 46; M.A. & Ph.D.(anthrop), Chicago, 49. Res. asst. archaeol, Ill. State Mus, Springfield, 49-50, curator anthrop, 50-59; curator N.Am. archaeol, mus. & asst. prof. anthrop, Southern Illinois, 59-63, assoc. prof. & acting dir. mus, 63-64; PROF. ANTHROP, WISCONSIN, MILWAUKEE, 64- Nat. Sci. Found. sr. fel, 64-65. U.S.M.C.R, 43-45. Fel. AAAS; Soc. Am. Archaeol; fel. Anthrop. Asn. Archaeological study of the temple-town community type in different environments as a prelude to urban developments; Meso-America and the Central Mississippi River Valley. Address: Dept. of Anthropology, University of Wisconsin, Milwaukee, Wis. 53211.

FOWLER, DR. OLIVER D(EAN), b. Kansas City, Mo, Feb. 25, 11; m. 50; c. 2. PSYCHOLOGY. B.A, Kansas, 35; M.A, Iowa, 37, Ph.D.(psychol), 40. Clin. psychologist, div. child welfare, State Bd. Soc. Welfare, Iowa, 39-41; staff psychologist, Fla. State Hosp, 41-42; clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Los Angeles, Calif, 46-49; Hacker Psychiat. Clin, Beverly Hills, 50-52. Private practice, 52-; staff consult, McMurray Hamstra & Co, Los Angeles, 56-58, Hamstra & Co, Beverly Hills, 58-63. Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. U.S.N, 42-46, Lt. Comdr. Psychol. Asn. Management consultation; motivation research; individual psychotherapy; diagnostic psychological testing. Publ: Neurophysiological and psychological changes induced by certain drugs; Responses to electrical stimulation; Electrocortical changes. Address: 2818 Overland Ave, Los Angeles, Calif. 90064.

FOWLER, PROF. PAUL C(LIFTON), b. Hastings, Nebr, Feb. 9, 22; m. 49; c. 3. POLITICAL SCIENCE. B.A, Chadron State Col, 43; M.A, Colorado, 47; Ph.D.(polit. sci), Indiana, 56. Instr. econ, Gen. Motors Inst, 47-49; POLIT. SCI, Southeast. Center, Indiana, 54-57; asst. prof, INDIANA STATE, 57-60, assoc. prof, 60-63, PROF, 63-, CHMN. DEPT, 65- U.S.N.R, 43-46, Lt.(jg). Polit. Sci. Asn. Organization and activities of United States regulatory commissions; business and government relationships in the United States and Western Europe; democratic and totalitarian theory and practice; scientific methodology. Address: Dept. of Political Science, Indiana State University, Terre Haute, Ind. 47809.

FOWLER, PROF. RAYMOND D(ALTON), b. Jasper, Ala, Dec. 22, 30; m. 55; c. 3. CLINICAL PSYCHOLOGY. B.A, Alabama, 52, M.A, 53; U.S. Pub. Health Serv. fel, Pa. State, 55-56, Ph.D.(psychol), 57. From asst. prof. psychol. & asst. dir. psychol. clin. to assoc. prof. & dir, ALABAMA, 56-65, PROF. PSYCHOL. & HEAD DEPT, 65- Chief consult, Ala. Cmn. Alcoholism, 58-, consult, Ala. Dept. Voc. Rehab, 63- V.chmn, Rehab. Res. Found, 65-; participant, White House Conf. on Health, 65-; mem, N.Am. Asn. Alcoholism Progs. Dipl, Am. Bd. Exam. Prfnl. Psychol, 67. Psychol. Asn; fel. Soc. Proj. Tech; Rehab. Asn. Personality assessment; alcoholism; psychotherapy; computer applications in mental health. Publ: Counseling with the alcoholic and his family, In: Counseling in marital and sexual problems, Williams & Wilkins, 65; co-auth, The measurement of alcoholic response to treatment by Barron's Ego-strength Scale, J. Psychol, 67; auth, Computer interpretation of personality tests: the automated psychologist, Comprehensive Psychiat, 67. Address: Dept. of Psychology, University of Alabama, University, Ala. 35486.

FOWLER, DR. ROBERT L(EE), JR, Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

FOWLER, PROF. WILLIAM LOUIS, Psychol, see 10th ed, Soc. & Behav. Vols.

FOX, DR. ANNETTE BAKER, b. Buffalo, N.Y, Mar. 2, 12; m. 35; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Chicago, 34, Ph.D, 41. Res. asst. int. rels, inst. int. studies, Yale, 43-51; res. assoc, center int. studies, Princeton, 51-58; lectr. polit. sci, Hunter, 58-61; teacher int. rels, Sarah Lawrence Col, 61-66; RES. ASSOC, INST. WAR & PEACE STUDIES, COLUMBIA, 61-, LECTR. INT. RELS, BARNARD COL, 66- Polit. Sci. Asn. Atlantic community; small state diplomacy; American foreign policy. Publ: Freedom and welfare in the Caribbean: a colonial dilemma; Power of small states: diplomacy in World War II; co-auth, NATO and the range of American choice, Columbia, 67. Address: Institute of War & Peace Studies, Columbia University, 622 W. 113th St, New York, N.Y. 10025.

FOX, DR. BERNARD H(AYMAN), b. New York, N.Y, Dec. 26, 17; m; c. 3. PSYCHOLOGY. B.S, Massachusetts, 40; M.S, Tufts, 47; Ph.D.(psychol), Rochester, 49. Asst. prof. psychol, George Washington, 49-56; sr. res. scientist, Appl. Psychol. Servs, 56-57; res. psychologist, accident prev. prog, U.S. Pub. Health Serv, 57-60; dir. lab. exp. psychol, Cleveland Psychiat. Inst, 60-62; assoc. clin. prof. psychol, Western Reserve, 60-62; chief exp. res, injury control prog, Nat. Center Urban & Indust. Health, U.S. PUB. HEALTH SERV, 62-67, ASSOC. CHIEF RES, NEUROL & SENSORY DISEASE CONTROL PROG, NAT. CENTER CHRONIC DISEASE CONTROL, 67- Consult, Ins. Inst. Hwy. Safety, 67- Mem. driving simulation cmt, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 63-, visibility cmt, 68-; judge, Metrop. Life Ins. Co. Accident Prev. Res. Award, 64-67. U.S.A.A.F, 42-46. AAAS; Psychol. Asn; Soc. Psychophysiol. Res; Psychonomic Soc. Alcohol; accidents; psychophysiology; language. Publ: Co-auth, Alcohol and traffic safety, U.S. Govt, 63. Address: 4241 N. 25th St, Arlington, Va. 22207.

FOX, PROF. BERTRAND, b. Williams Bay, Wis, Feb. 28, 08; m. 35; c. 3; m. 51; c. 3. ECONOMICS. A.B, Northwestern, 29; A.M, Harvard, 33, Ph.D, 34. Instr. & tutor, Harvard, 31-35; asst. prof. econ. Williams Col, 35-40, assoc. prof, 40-45, prof, 45-49; bus. admin, GRAD. SCH. BUS. ADMIN, HARVARD, 49-55, Ford prof, 55-67, SCHIFF PROF. INVESTMENT BANKING, 67-, DIR, HARVARD UNIV. PRESS, 66-, dir. res, 53-68. Sr. economist, Nat. Defense Adv. Cmt, 40; dir. mil. requirements div, War Prod. Bd, 41-43, dep. dir, prog. bur, mil. div, 43-45, dir. prog. & statist. bur, 45; adminstr, Merrill Found. Adv. Financial Knowledge, Inc, 47-62; res. dir, Cmn. Money & Credit, 58-61; dir, Eberstadt Fund, 66- Consult, Nat. Housing Admin, 46; Army-Navy Munitions Bd, 46-50; Nat. Security Resources Bd, 47-48; Off. Defense Mobilization, 53- Mem. Assoc. Bur. Bus. & Econ. Res. Econ. Asn; Statist. Asn; Finance Asn. Business administration; finance; monetary and fiscal policy. Address: 18 Edgewood Rd, Lexington, Mass. 02173.

FOX, PROF. BETTE DANEMAN, b. Akron, Ohio, Apr. 6, 25; m. 54; c. 1; m. 61; c. 2. POLITICAL SCIENCE. B.A, Western Reserve, 47, Ph.D.(polit. sci), 61; M.A, Brown, 49; summers, Denver, 50, Chicago, 53, Oxford, 54; Ford Found. grant, Harvard, 59-61. Ed. asst, World Peace Found, 48-49; instr. polit.

sci, Akron, 49-51; for. affairs officer, U.S. Dept. State, UN, 52-53, youth dir, coun. world affairs, 53-54; from instr. to asst. prof. sociol. & polit. sci, Akron, 56-67; PROF. POLIT. SCI, MADISON COL, 68- Univ. Akron rep, faculty inst. int. studies, regional coun. int. ed, Hiram Col, 66-67; vis. prof. Nat. Defense Ed. Act summer inst, Kent State, 67. Polit. Sci. Asn. Status of women in the Soviet Union. Address: 420 Eastover Dr, Harrisonburg, Va. 22801.

FOX, DR. BYRON L(ESTER), b. Toledo, Ohio, Jan. 7, 06. SOCIOLOGY. B.A, Ohio State, 28, M.A, 30, Ph.D.(sociol), 47. Instr. econ. & sociol, Bethany Col, 32-36; asst. prof. sociol. & anthrop, Ohio Wesleyan, 36-40; ed. supvr, Nat. Youth Admin, 40-42; personnel & admin. officer, Off. for Emergency Mgt, 42-44; chief recruitment & placement sect, personnel off, U.S. Dept. State, 44-45, admin. officer, div. cultural coop, 45-46, adv. soc. sci, off. int. info. & cultural affairs, 46-47; assoc. prof. sociol, Syracuse, 47-65; prof, Northern Arizona, 65-67; CHMN. DEPT. SOCIOL. & ANTHROP, CARLETON COL, 67- Sociol. Asn; Soc. Study Social Probs.(secy, 52-55; pres, 57-58). Technical assistance programs; conflict and negotiation processes. Publ: International cultural relations, Am. Soc. Rev; Cold war and American domestic problems, Soc. Probs. Address: Dept. of Sociology & Anthropology, Carleton College, Northfield, Minn. 55057.

FOX, DR. DAVID J(OSEPH), b. New York, N.Y, Jan. 24, 27; m. 60. EDUCATIONAL PSYCHOLOGY. B.S, City Col. New York, 49, M.A, 50; Ph.D.(ed. psychol), Columbia, 55. Asst, teachers col, Columbia, 51-53; Puerto Rican Study, N.Y, 53-56; res. assoc, Teachers Col, Columbia, 56-60, asst. prof. ED. RES, 60-64; ASSOC. PROF, CITY COL. NEW YORK, 64-, DIR. OFF. RES. & CHMN. DEPT. SOC. & PSYCHOL. FOUND, 66- Res. consult, Center Urban Ed, New York, 66- U.S.N, 45-46. AAAS; Psychol. Asn; Ed. Res. Asn. Research administration and design; describing the nature of student educational experiences and identifying factors and practices related to successful educational experiences. Publ: Fundamentals of research in nursing, 65 & co-auth, Research process in nursing, 66, Appleton; auth, Evaluation of more effective schools program, New York City Bd. Ed, 67. Address: 609 W. 114th St, New York, N.Y. 10025.

FOX, PROF. E(DWARD) J(ACKSON), b. St. Thomas, Ont, Sept. 9, 13; m. 59; c. 4. MARKETING, ECONOMICS. B.A, Western Ontario, 35; M.Sc, London, 37; fel, Brookings Inst, 40-41; Ph.D.(econ), California, 50. Assoc. indust. economist, Off. Price Admin, 41-42; from asst. Wash. rep. to Wash. rep, Can. Wartime Prices & Trade Bd, 42-46, spec. London rep, 46, textile adminstr, 47; lectr. bus. admin, Western Ontario, 48-49, prof. & dir. bur. bus. res, 49-54; PROF. MKT. MIAMI (FLA), 54-; CHMN. DEPT, 57- Ford Found. mkt. res. workshop fel, 64; vis. prof, Mgt. Develop. Inst, Switz, 68-69. Tech. consult, Can. Adv. Res. Found, 53-54; mkt. consult, 55- Mkt. Asn; Econ. Asn. Marketing management; applied economics. Publ: Co-ed, Marketing in Canada; Merchandise standards and the war economy & Havana charter, Bus. Quart. Address: 7855 S.W. 70th St, South Miami, Fla. 33143.

FOX, ELLIOT M(ILTON), b. Deer Lodge, Mont, Aug. 30, 20; m. 43; c. 4. POLITICAL SCIENCE, INDUSTRIAL MANAGEMENT. A.B, Washington (St. Louis), 42; U.S. Merchant Marine Acad, 42-44; fel, City Col. N.Y, 53-54; M.A, Columbia, 54. Investr, Personnel Surv. Bur, 50-53; lectr. govt, City Col. N.Y, 53-56; TRAINING COORDINATOR MGT. & SUPVRY. DEVELOP, LINDE DIV, UNION CARBIDE CORP, 56- U.S. Merchant Marine, 44-49. Polit. Sci. Asn; Soc. Training & Develop. Implications of psychoanalysis for political theory; psychology of communication and motivation as applied in industrial training, management and organization; human interactivity viewed as a process generating personality, culture and social power. Address: 48 Kings Ferry Rd, Montrose, N.Y. 10548.

FOX, GERALD J(ULIAN), b. New York, N.Y, June 10, 27; m. 55; c. 2. PSYCHOLOGY, HUMAN ENGINEERING. B.A, N.Y. Univ, 49; M.A, Fordham, 51; New Sch. Soc. Res, 53-58, 64-66. Asst. psychol, Princeton, 52; assoc. scientist eng. psychol, res. div, sch. eng, N.Y. Univ, 52-56; head, flight trainers br, U.S. Naval Training Device Center, 56-58; ASST. CHIEF, LIFE SCI. GROUP, GRUMMAN AIRCRAFT ENG. CORP, 58- V.pres, Seitz Assocs, 60- U.S.A.A.F, 45-47. Psychol. Asn. Military systems design; training device development; aero space systems; visual perception. Publ: Effects of interval and duration of visual stimuli upon the time error; Design of an integrated cockpit; Perceptual-motor factors in the remote control of a lunar vehicle. Address: 4 Mystic Court, Stony Brook, N.Y. 11790.

FOX, DR. GRACE E(STELLE), b. Washington, D.C, Dec. 25, 99. INTERNATIONAL RELATIONS, HISTORY. A.B, Vassar Col, 22; A.M, Columbia, 25, Ph.D, 40; Eastman fel, Brookings Instn, 25-26. Teacher hist, Sarah Lawrence Col, 29-35; independent res, 35-43; historian, Off. For. Relief & Rehab. Opers, 43; Wash. Hqs, UNRRA, 44-49; RES. & WRITING, 49- Soc. Sci. Res. Coun. grant, Admiralty & For. Off. Archives, 39, 54; Am. Coun. Learned Socs. grant, 40; Am. Philos. Soc. grant, 54; lectr, Goucher Col, 53-54; American Univ, 53-57. Mem, Conf. Brit. Studies. Asn. Asian Studies; Hist. Asn; Asiatic Soc. Japan. British policy in the Far East in the nineteenth century; British policy in Japan, 1854-1883; modern European history. Publ: British admirals and Chinese pirates, 1832-1869, Kegan Paul, 40; Britain and Japan, 1858-1883, Clarendon Press, Oxford, 68; The origins of UNRRA, Polit. Sci. Quart, 12/50. Address: 1709 S St. N.W, Washington, D.C. 20009.

FOX, PROF. GUY H(AROLD), Polit. Sci, see 10th ed, Soc. & Behav. Vols. Latest known address: The Ford Foundation, Box 2379, Beirut, Lebanon.

FOX, DR. JACK, b. Vienna, Austria, Nov. 1, 17; nat. PSYCHOLOGY. B.A, California, Los Angeles, 49, M.A, 52, Ph.D.(clin. psychol), 59. Asst. psychol, California, Los Angeles, 50-53, asst. supvr, clin. sch, 52-53; clin. psychologist, Calif. Med. Facility, 53-55; Pac. State Hosp, Pomona, 56-58; reception-guid. center, Calif. Inst. Men, 59; PATTON STATE HOSP, 59-65, sr. psychologist, 65-68, CHIEF PSYCHOLOGIST, 68- U.S.A, 41-46, M/Sgt. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64, Am. Bd. Exam. Psychol. Hypnosis, 67. AAAS; Psychol. Asn. Psychodiagnosis; psychotherapy; research methodology; human learning; projective techniques; experimental and clinical hypnosis; mental deficiency; criminal behavior; psychosis; alcoholism; addiction; myopia. Publ: Contrib, Developments in the Rorschach technique, World Book Co, 54 & 56; Systematic use of hypnosis in individual and group psychotherapy, Int. J. Clin. & Exp. Hypnosis; Social desirability, prediction equation, regression equations, and intrinsic response bias, Psychol. Bull, 6/67. Address: 6632 Mitad Court, San Bernardino, Calif. 92404.

FOX, DR. JAMES H(AROLD), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 67.

FOX, PROF. KARL A(UGUST), b. Salt Lake City, Utah, July 14, 17; m. 40; c. 2. ECONOMICS. B.A, Utah, 37, M.A, 38; Thompson Mem. scholar, California, 38-39, Ph.D.(econ), 54. Economist, War Food Admin, 42-44; Bur. Agr. Econ, 44-47, assoc. head, div. statist. & hist. res, 47-51, head, 51-54; economist, President's Coun. Econ. Adv, 54-55; PROF. ECON. & HEAD DEPT, IOWA STATE, 55- Vis. prof, Harvard, 60-61. Mem. bd. dirs. & cmt. econ. stability, Soc. Sci. Res. Coun, 62-67, cmt. regional acct, 62-, chmn. cmt. areas soc. & econ. statist, 64-67. Superior serv. award, U.S. Dept. Agr, 48. Fel, AAAS; Econ. Asn; Agr. Econ. Asn.(res. awards, Farm Econ. Asn, 52-54 & 57, v.pres, 55-56); fel. Economet. Soc; fel. Statist. Asn; Regional Sci. Asn. Econometrics; operations research; theory of quantitative economic policy; urban and regional economics; econometric models of universities and educational systems; agricultural economics; economic development; models of general social systems. Publ: Econometric analysis for public policy, Iowa State Univ, 58; co-auth, The theory of quantitative economic policy, Rand McNally, 66; auth, Intermediate economic statistics, Wiley, 68. Address: 3610 Woodland, Ames, Iowa 50010.

FOX, KIRK (B), Appl. Math, see 11th ed, Phys. & Biol. Vols.

FOX, DR. LOGAN J(ORDAN), b. Tokyo, Japan, Oct. 20, 22; m. 43; c. 5. PSYCHOLOGY. B.A, Pepperdine Col, 46, hon. LL.D, 59; M.A, Chicago, 47; Ph.D. (psychol), Southern California, 67. Asst. instr. PSYCHOL, Pepperdine Col, 47-48; prof, Ibaraki Christian Col, Japan, 48-60; ASSOC. PROF, Pepperdine Col, 60-67, EL CAMINO COL, 67- Psychotherapy; psychology of religion; educational psychology. Publ: Co-auth, Counseling and the problem child. Address: 2403 W. 79th St, Inglewood, Calif. 90305.

FOX, DR. M(ICHAEL) W(ILSON), b. Bolton, Eng, Aug. 13, 37; m. 64; c. 1. PSYCHOBIOLOGY, ETHOLOGY. B.Vet.Med, London, 62, Ph.D, 67. Res. fel. behavior, Jackson Lab, 62-64; med. res. assoc, State Res. Hosp, Galesburg, Ill, 64-67; ASST. PROF. PSYCHOL. & BIOL, WASHINGTON (ST. LOUIS), 67- Vis. lectr, Knox Col, 65-67. Mem. cmts. standards for lab. dogs & cats & lab. animal ethol, Nat. Res. Coun-Nat. Acad. Sci, 67- Animal Behavior Soc; Vet. Med. Asn. Developmental psychobiology; canine pediatrics and behavior; development of central nervous system and behavior. Publ: Canine behavior, 65 & Canine pediatrics, 67, C.C. Thomas. Address: Dept. of Psychology, Washington University, St. Louis, Mo. 63130.

FOX, DR. PAUL W, b. East Orange, N.J, Mar. 30, 32; m. 56; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Brown,55; M.S, Tulane, 63, Nat. Sci. Found. fel, 63-64, Ph.D.(psychol), 64. Res. asst. human learning, Tulane, 61-63, physiol. psychol, 62-63; asst. prof. PSYCHOL, MINNESOTA, MINNEAPOLIS, 64-67, ASSOC. PROF, 67- U.S.A, 55-57. AAAS; Psychol. Asn; Psychonomic Soc. Human learning and memory. Publ: Co-auth, Stimulation and prediction of recall, 64 & Associative rules governing recall and misrecall, 66, J. Exp. Psychol; auth, Facilitation and interference, In: Acquisition of skill, Academic, 66. Address: Dept. of Psychology, University of Minnesota, Minneapolis, Minn. 55455.

FOX, PROF. PAUL W(ESLEY), b. Orillia, Ont, Sept. 22, 21; m. 51; c. 3. POLITICAL SCIENCE. B.A, Toronto, 44, M.A, 47; Ph.D, London, 59. Lectr. POLIT. SCI, Carleton (Can), 48-51, asst. prof, 51-54; TORONTO, 54-60, from assoc. prof. to PROF, 60- Can. Army, 44-45, Lt. Can. Polit. Sci. Asn; Can. Hist. Asn. Political theory of Louis XIV; Canadian government. Publ: Louis XIV, absolutism and divine right & Study of one constituency in the federal election of 1957, Can. J. Econ. & Polit. Sci. Address: Dept. of Political Science, University of Toronto, Toronto, Ont, Can.

FOX, PROF. PHILIP G(ORDER), Bus. Admin, Statist, see 10th ed, Soc. & Behav. Vols.

FOX, DR. RENEE CLAIRE, b. New York, N.Y, Feb. 15, 28. SOCIOLOGY. A.B, Smith Col, 49; Ph.D.(sociol), Radcliffe Col, 54. Sociologist, interdisciplinary res. proj, U.S. Dept. Air Force & Ford Found, Peter Bent Brigham Hosp, Boston, Mass, 52-54; res. assoc, Bur. Appl. Soc. Res, Columbia, 53-58, asst. prof. sociol, Barnard Col, 58-64, assoc. prof, 64-66, lectr, 55-56; LECTR. SOCIOL, HARVARD, 67-, RES. FEL, CENTER INT. AFFAIRS, 67- Guggenheim fel, 61; mem. & sci. adv, Sociol. Res. Centre, Kinshasa, Congo, 63-67; res. grant, Soc. Sci. Res. Coun. Joint Cmt. on African Studies, 64-65; vis. prof. sociol, Univ. of the Congo, 65. AAAS; fel. Sociol. Asn; assoc. Acad. Psychoanal; Asn. Am. Med. Cols; Soc. Sci. Study Relig. Sociology of science and medicine; sociology of developing societies, especially in Africa. Publ: The emerging physician: the development of a Congolese medical profession; Hoover Inst, Stanford Univ, 67; Medical scientists in a chateau, Science, 5/11/62; co-auth, The second independence: a case study of the Kwilu rebellion in the Congo, Comp. Studies in Soc. & Hist, 10/65. Address: 9 Hawthorne Place, Boston, Mass. 02114.

FOX, PROF. RICHARD ERNEST, b. New York, N.Y, Feb. 7, 10; m. 37; c. 2. PSYCHOLOGY. B.A, Taylor, 33; M.A, N.Y. Univ, 35, Ph.D.(psychol), 40. Chmn. dept. psychol, Castleton Teachers Col, 36-42; dir. guid. bur, California, 45-46; assoc. prof. ED, COLORADO, 46-58, PROF, 58-, HEAD DEPT. TESTING & EVAL, 46-, ASSOC. DIR. INST. RES, 61-, COORDINATOR ACAD. PLANNING, 67-, consult, exten, 57-61; dir. ed. experimentation, 62-67. Consult, Mt. States Tel. & Tel. Co, 58-59. U.S.N.R, 42-45, Lt. Comdr. AAAS; Soc. Gen. Syst. Res. Teaching methods; curriculum; prediction of academic performance; basic systems; academic planning. Publ: Guide to academic planning, 66 & co-auth, Academic plans (47 titles), 66-67; Univ. Colorado; Differential college aptitude examination. Address: 3000 Birch Ave, Boulder, Colo. 80302.

FOX, DR. RICHARD G, b. New York, N.Y, Mar. 3, 39; m. 60. SOCIAL ANTHROPOLOGY. A.B, Columbia, 60; fel, Michigan, 60-61, M.A, 61, Ph.D, 65; Nat. Defense For. Lang. fel, Michigan & California, Berkeley, 61-63. Asst. prof. ANTHROP, Brandeis, 65-68; ASSOC. PROF, DUKE, 68- Field dir. summer field proj, Brandeis. Fel. Anthrop. Asn. South Asia; social stratification; pre-industrial urbanism. Publ: From zamindar to ballot box, Cornell, fall 68; Family, caste, & commerce in an Indian market town, Econ. Develop. & Cultural Change, 4/67; Resiliency & change in the Indian caste system, J. Asian Studies, 8/67. Address: Dept. of Anthropology, Brandeis University, Waltham, Mass. 02154.

FOX, DR. ROBERT, b. Cincinnati, Ohio, Oct. 22, 32; m. 61; c. 1. PSYCHOLOGY. B.A, Cincinnati, 57, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, VANDERBILT, 63-67, ASSOC. PROF, 67- Prin. investr, Nat. Insts. Health res. grant, 64- Psychol. Asn; Psychonomic Soc. Visual perception; experimental psychology; binocular vision. Publ: Co-auth, Contributions to general psychology, Ronald, 68; Psychology of perception, Holt, 69; Stochastic properties of binocular rivalry alternations, Perception & Psychophys, 67. Address: Dept. of Psychology, Vanderbilt University, Nashville, Tenn. 37203.

FOX, DR. ROBERT B(RADFORD), b. Galveston, Tex, May 11, 18; m. 47; c. 3. ANTHROPOLOGY. A.B, Southern California, 41; M.A, Texas, 44; Ford Found. fel, Chicago, 52-53, Ph.D.(anthrop), 54. Admin. dir, Philippine Inst. for Armed Forces, 46-47; anthropologist, Philippine Nat. Mus, 47-51, dir. Philippine proj, div. soc. sci, Univ. Chicago, 54-55; ACTING CHIEF DIV. ANTHROP, PHILIPPINE NAT. MUS, 55- Phys. anthropologist, Am. Graves Registrn. Serv, Philippines, 48-51. U.S.N.R, 44-46, Lt.(jg). Fel. Anthrop. Asn; Far-East. Prehist. Asn. Philippine anthropology; Southeast Asia prehistory; ethnobotany. Publ: Pinatubo Negritos, Philippine J. Sci. Address: National Museum, Herran & Tafts St, Manila, Philippines.

FOX, DR. ROGER W(ILLIAM), b. Turlock, Calif, May 8, 36. AGRICULTURAL ECONOMICS. B.S, California, Davis, 59; M.S, California, Berkeley, 61; Ph.D.(agr. econ), Mich. State, 65. Asst. instr. AGR. ECON, Mich. State, 64-65; ASST. PROF, ARIZONA, 65- Am. Farm Econ. Asn. travel grant, Conf. Int. Asn. Agr. Economists, Sydney, Australia, 67; Agr. Develop. Coun. suppl. travel grant, Philippines & Indonesia, 67. U.S.A.R, 59-67, 1st Lt. Econ. Asn; Am. Agr. Econ. Asn; Int. Asn. Agr. Econ. International agricultural trade and development; agricultural price analysis; agricultural policy. Publ: Estimating the effects of the EEC common grain policy, J. Farm Econ, 5/67. Address: Dept. of Agricultural Economics, University of Arizona, Tucson, Ariz. 85721.

FOX, DR. RONALD E, b. Conover, N.C, May 11, 36; m. 56; c. 2. CLINICAL PSYCHOLOGY. A.B, North Carolina, 58, M.A, 61, Ph.D.(psychol), 62. ASST. PROF. PSYCHOL, SCH. MED, NORTH CAROLINA, 63- Consult, Lee County Ment. Health Clin, Sanford, N.C, 64- Psychol. Asn. Psychotherapy; personality change; measurement of personality change through the use of cognitive processes. Address: Dept. of Psychiatry & Psychology, University of North Carolina School of Medicine, Chapel Hill, N.C. 27514.

FOX, PROF. SAMUEL, b. Chicago, Ill, Mar. 18, 05; m. 28; c. 3. GOVERNMENT. Ph.B, Chicago, 24, M.B.A, 47; J.D, Loyola (Ill), 27, LL.M, 28; Ph.D, Notre Dame, 50. Attorney, Luster & Luster, 28-31; Fox & Fox, 31-40; acct, U.S. Rubber Co, 41-42; controller, Bell & Thorn, Inc, 42-43; enforcement attorney, U.S. Off. Price Admin, 43-46; PROF. ACCT, ILLINOIS, CHICAGO, 46- Lectr, Loyola (Ill), 28-31; prof. lectr, Ill. Inst. Tech, 46-50; vis. prof. lectr, American Univ, Beirut, 63; Fulbright-Hays vis. prof, Al-Hikma Univ. Baghdad, 66-67. Cost acct. consult, Agency Int. Develop, Peru, 67. AAAS; Am. Acct. Asn; Econ. Asn; Soc. Eng. Ed; Finance Asn; Acad. Polit. & Soc. Sci; Nat. Asn. Acct; Acad. Mgt; fel. Int. Acad. Law & Sci; Bus. Law Asn. (exec. v.pres, 63-64). Accounting; business law and electoral systems. Publ: Business law in the United States, N.Z. Bus. Law J, 4/65; Income Tax form desiderata, J. Nat. Acct, 12/66; Comparative commercial codes in Republics of United States, Lebanon and Germany, Bus. Perspectives, 67. Address: Dept. of Accounting, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

FOX, PROF. SHERWOOD D(EAN), b. Canton, Mass, Oct. 29, 17; m. 42; c. 3. SOCIOLOGY. A.B, Harvard, 39, A.M, 47, Ph.D.(sociol), 53; univ. fel, Wisconsin, 41-42; M.A, Illinois, 41. Lectr. & instr. sociol, N.Y. Univ, 47-54; assoc. prof, Skidmore Col, 54-55; PROF. SOCIOL. & CHMN. DEPT, UNION COL.(N.Y), 56-, DIR. SOC. RES. CENTER, 59- Lectr, Connecticut, 53-54; guest lectr, grad. sch. pub. admin. & soc. serv, N.Y. Univ, 53-54. Consult, Clearinghouse Res. Human Orgn, 55-56. U.S.A.A.F, 42-45. Sociol. Asn; Soc. Study Social Probs. Relations between social science, social practice and policy; application of social science to professions and industry; organization of social systems; social structure as a source of deviance and other problems. Publ: Co-auth, What next?; transl, Education and sociology; auth, Sociology's place in the liberal arts, Square Bull, N.Y. Univ. Address: Dept. of Sociology, Union College, Schenectady, N.Y. 12308.

FOX, DR. STEPHEN S(ORIN), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

FOX, DR. THOMAS G(ERALD), b. Great Bend, Kans, May 2, 36; m. 55; c. 2. ECONOMICS. B.A, Kans. Wesleyan, 61; Maxwell fel. & M.A, Syracuse, 65, Carnegie fel. & Ph.D.(econ), 66. ASST. PROF. ECON, PA. STATE, 67-Brookings Inst. econ. policy fel, U.S. Dept. Health, Ed. & Welfare, 67-68. Econ. Asn. Evaluation of government programs; the use of planning-programming-budgeting systems. Publ: Co-auth, Input and output in large city high schools, Syracuse Univ, 67. Address: Dept. of Economics, Pennsylvania State University, University Park, Pa. 16802.

FOX, PROF. VERNON B(RITTAIN), b. Boyne Falls, Mich, Apr. 25, 16; m. 41; c. 3. SOCIAL PSYCHOLOGY, CRIMINOLOGY. A.B, Mich. State, 40, cert, 41, M.A, 43, Ph.D.(sociol, anthrop), 49. Psychologist, State Prison South. Mich, 42-46, asst. dep. warden, 49-52; psychologist & chmn. classification, Cassidy Lake Tech. Sch, State Dept. Corrections, Mich, 46-49; PROF. CRIMINOL. & CORRECTIONS & CHMN. DEPT, FLA. STATE, 52-, DIR. DELINQUENCY CONTROL INST, 58- Mem, Fla. Adv. Coun. Adult Corrections & Prison Industs, 59-; bd. dirs, Fla. Juvenile Court Found, 62- U.S.A, 45-46. AAAS; Sociol. Asn; Asn. Social Workers; Nat. Coun. Crime & Delinquency. Penal programs; projective techniques and human behavior. Publ: How I broke the Michigan prison riot, In: Colliers; Evaluation of Michigan's Wayward Minor Law; Violence behind bars. Address: Dept. of Criminology, Florida State University, Tallahassee, Fla. 32306.

FOX, DR. WAYNE LENIS, b. Richmond, Calif, July 28, 36; m. 57; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, San Jose State Col, 61; Nat. Sci. Found. summer fel, Arizona, 65, Ph.D.(psychol), 66. Statist. supvr, HUMRRO, GEORGE WASHINGTON, 61-63, RES. SCIENTIST, 66- U.S.M.C, 54-57, Res, 57-61. Relationships between aptitude, training methods and learning and performance. Publ: Co-auth, Forgetting of a simple motor task, Psychonomic Sci, 10/66. Address: P.O. Box 5787, Presidio of Monterey, Calif. 93940.

FOX, PROF. WILLIAM M(cNAIR), b. New Orleans, La, Nov. 1, 24; m. 49; c. 2. BUSINESS ADMINISTRATION, MANAGEMENT. B.B.A. & M.B.A, Michigan, 48; Ph.D.(personnel admin), Ohio State, 54. Asst. prof. mgt, Tex. Tech. Col, 50-52; policy, personnel rel. & prod, Washington (Seattle), 52-54; assoc. prof. INDUST. RELS. & MGT, FLORIDA, 54-63, PROF, 63- Fulbright lectr, Swedish Sch. Econ. & Finish Sch. Econ, Helsinki, 58-59; summers, Found. Econ. Ed. fel, 54; mem, Ford Found. faculty seminar new develops, Cornell, 60; Ford Found. faculty seminar simulation & bus. games, Carnegie Inst. Tech, 61; Ford Found. faculty seminar math. bus. admin, Michigan, 62; staff mem, commun. for. nats, Agency Int. Develop. seminars; participant, mgt. theory & res. seminar, Univ. California, Los Angeles & McKinsey Found, 62. Consult, Internal Revenue Serv, NASA, Nat. Mgt. Asn. U.S.A.A.F, 43-45. Acad. Mgt; Inst. Mgt. Sci. Leadership; human relations; organization theory; behavioral science concepts of interest to managers; evaluation of managerial performence; behavioral aspects of project management. Publ: The management process, Irwin, 63; ed, Readings in personnel management from Fortune, Holt, rev. ed 63; auth, Group reaction to two types of conference leadership, Human Rels, 57. Address: 1726 S.W. Eighth Dr, Gainesville, Fla. 32601.

FOX, PROF. WILLIAM T(HORNTON) R(ICKERT), b. Chicago, Ill, Jan. 12, 12; m. 35; c. 2. INTERNATIONAL RELATIONS. B.S, Haverford Col, 32; A.M, Chicago, 34, Harris Found. fel, 35-36, Ph.D, 40. Instr. polit. sci, Temple, 36-41; instr. & conf. dir, sch. pub. & int. affairs, Princeton, 41-43; res. assoc, inst. int. studies, Yale, 43-45, assoc. prof. polit. sci, 46-50; PROF. INT. RELS, COLUMBIA, 50-, DIR. INST. WAR & PEACE STUDIES, 51- Lectr, Harvard, 47. Consult, U.S. Dept. State, 44-53, 62- Managing ed, World Polit, 48-53. Mem, Nat. Res. Coun, 65-68, mem. exec. cmt, div. behav. sci, 66-68. Coun. For. Rels; Polit. Sci. Asn.(v.pres, 65-66); fel. Am. Acad. Arts & Sci. Inter-great power relations; civil-military relations; theory of world politics. Publ: The super-powers; ed. & co-auth, Theoretical aspects of international relations; co-auth, NATO and the range of American choice, Columbia, 67. Address: Institute of War & Peace Studies, Columbia University, New York, N.Y. 10027.

FOYTIK, PROF. JERRY, b. Mich, June 24, 14; m. 40; c. 4. AGRICULTURAL ECONOMICS. A.B, California, 36, M.A, 38, Ph.D.(agr. econ), 49. Asst. bus. econ, California, Davis, 37-40, agr. econ, 38-39; economist, fruit & veg. br, U.S. Dept. Agr, 40-44, chief econ. anal. sect, 45-47; subsistence res. sect, requirements br, Off. Qm. Gen, 44-45; asst. AGR. ECON, CALIFORNIA, DAVIS, 47-49, from assoc. prof. to PROF, 49- Food div. economist, Off. Price Admin, 51-52. Consult, Off. Price Admin; Off. Defense Mobilization. U.S.A, 44. Agr. Econ. Asn. Price analysis. Publ: The California plum industry, an economic study; Characteristics of demand for California plums; Private price programs in agriculture. Address: Dept. of Agricultural Economics, University of California, Davis, Calif. 95616.

FRADKIN, DR. HOWARD E, b. Worcester, Mass, Oct. 5, 26; m. 52; c. 1. SOCIOLOGY, SOCIAL WELFARE. A.B, California, 51; M.S, Wisconsin, 53; Nat. Inst. Ment. Health fel, Ohio State, 55-57, Ph.D, 58. Soc. caseworker, child welfare & juvenile probtn, State Dept. Pub. Welfare, Wis, 53-55; asst. prof. social work, Ohio State, 57-60; ASSOC. PROF, San Francisco State Col, 60-66; CRIMINOL, CALIF. STATE COL. LONG BEACH, 66- Res. consult, U.S. Children's Bur, 59. Med.C, 44-46, Sgt. Statist. Asn: Sociol. Asn. Corrections and penology; family and child welfare, especially casework, group work and family centered therapy; police and correctional administration; juvenile and vice control; jail administration; probation and parole. Publn: Survey of Hamilton County facilities for the care of dependent, neglected and delinquent children; Training personnel for work with juvenile delinquents; Assessing the effectiveness of helicopter patrol in police work. Address: 2854 Alta Vista Dr, Newport Beach, Calif. 92660.

FRAENKEL, DR. GERD, Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

FRAENKEL, DR. MARTA, Statist, see 10th ed, Soc. & Behav. Vols.

FRAENKEL, DR. WILLIAM A, b. New York, N.Y, June 20, 22; m. 49; c. 2. PSYCHOLOGY, REHABILITATION. B.S, N.Y. Univ, 50, A.M, 51, Ph.D.(ed. psychol), 55. Rehab. worker, U.S. Vet. Admin, 49-50; rehab. counsr, Beth Israel Hosp, N.Y, 50-51; interviewer, State Employ. Serv, N.Y, 51-55, dir. selective placement center handicapped workers, 55; instr. psychol, Upsala Col, 55-56; dir, Occup. Training Center Essex County, N.J, 56-58; rehab. consult, Nat. Asn. Retarded Children, 58-62, EXEC. DIR, ASN. HELP RETARDED CHILDREN, 62- Instr, N.Y. Univ, 52-59; adult div, New York Pub. Schs, 55-56; private practice, 56- Trustee, Psychol. Serv. Center, N.Y. Mem, President's Cmt. Employ. Handicapped, 55-, adv. ed. rehab, tank force II, President's Cmt. Employ. Handicapped, 55-, adv. ed. rehab, President's Panel on Ment. Retardation, 62; mem. various adv. cmts. & cmns, crippled children & adult rehab. servs. & workshops, 60-; mem. Int. Soc. Rehab. Disabled; chmn, N.Y.C. Planning Ment. Disorders, 63-65; President's Adv. Cmt. Ment. Retardation, Bronx Burough, 65-; co-chmn. N.Y. Mayor's Adv. Cmt. Ment. Retardation, 66- U.S.M.C, 42-45. AAAS; Psychol. Asn; Rehab. Asn; fel. Asn. Ment. Deficiency; Pub. Health Asn; N.Y. Acad. Sci. Psychology and rehabilitation; education, recreation, vocational training and social aspects of disability; learning theory; parent counseling; habilitation

of mentally retarded; development of professional interest in work with retarded. Publ: The mentally retarded and their vocational rehabilitation: a resource handbook; Employing the mentally retarded: a guidebook; How to get a job, U.S. Govt. Printing Off, 67. Address: Dept. of Mental Health, 15 Ashburton Place, Boston, Mass. 02108.

FRAINE, PROF. HAROLD GEORGE, b. Newark, N.J, Oct. 16, 00; m. 26; c. 1. FINANCE, ECONOMICS. Com.E, Cincinnati, 26; Ph.D.(econ), Minnesota, 37. Mgr. for. acct. dept, Nat. Cash Register Co, 26; instr. acct, Minnesota, 26-29; mgr. res. & statist. dept, First Securities Corp, 29-34; instr. finance, Minnesota, 34-37; asst. prof. bus. admin, Indiana, 37-39; financial analyst, U.S. Securities & Exchange Cmn, 39-41, prin. financial analyst & head. res. sect, 41-47; asst. dir. investment res, Life Ins. Asn. Am, 47-48; PROF. COMMERCE, WISCONSIN, 48- Tech. dir, corp. bond res. proj, Nat. Bur. Econ. Res, 39-41, mem. tech. cmt. corp. bond res, 41-60; pres, Financial Analysts Phila, 45. Econ. Asn; Finance Asn.(ed, 56-63). Publ: Valuation of securities holdings of life insurance companies, Irwin, 62; co-auth, Legal framework, trends, and developments in investment practices of life insurance companies, Law & Contemporary Probs, winter, 52; Effect of defaults and credit deterioration on the yields of corporate bonds, J. Finance, 9/61. Address: Graduate School of Business Administration, University of Wisconsin, Madison, Wis. 53706.

FRAKE, DR. CHARLES O(LIVER), b. Laramie, Wyo, May 9, 30; m. 52; c. 2. ANTHROPOLOGY. A.B, Stanford, 51; Ph.D.(anthrop), Yale, 55. Instr. soc. anthrop, Harvard, 58-60; asst. prof. anthrop. & path, STANFORD, 60-65, ASSOC. PROF. ANTHROP, 65- Fel, Center Adv. Studies Behav. Sci, Stanford, 67-68. U.S.A, 55-57. Fel. Anthrop. Asn; fel. Ling. Soc. Language and culture; cultural ecology; social structure; Malaysian ethnology and linguistics; ethnographic methods. Publ: Diagnosis of disease among the Subanun, Am. Anthropologist; Eastern Subanun of Mindanao, In: Social structure in southeast Asia; Ethnographic study of cognitive systems, In: Anthropology and behavior. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

FRAM, DR. EUGENE H, b. Johnstown, Pa, July 20, 29; m. 58; c. 2. MARKETING. B.S, Pittsburgh, 51, M.Litt, 52; Ed.D, State Univ. N.Y. Buffalo, 64. Asst. res. dir, Assoc. Merchandising Corp, 54-57; from instr. to ASSOC. PROF, COL. BUS, ROCHESTER INST. TECH, 57- Lectr, Brooklyn Col, 56-57. Consult, bus. & trade associations. U.S.A, 52-54. Inst. Mgt. Sci; Mkt. Asn. Consumer behavior; model for evaluating work-study programs; impact of creative computer utilization on marketing middle management. Publ: Small business credit and finance, 66 & Small business marketing, 68, Oceana. Address: Rochester Institute of Technology College of Business, P.O. Box 3407, Rochester, N.Y. 14614.

FRAMO, DR. JAMES L(AWRENCE), b. Philadelphia, Pa, June 25, 22; m. 46; c. 3. CLINICAL PSYCHOLOGY. B.A, Pa. State, 47, M.S, 48; California, 48-49; fel, Texas 50-51, Ph.D, 53. Intern clin. psychol, Worcester State Hosp, Mass, 51-52; staff psychologist, U.S. Vet. Admin. Hosp, Perry Point, Md, 52-54; U.S. Naval Hosp, Phila, Pa, 54-56; RES. SCIENTIST, EAST. PA. PSYCHIAT. INST, PHILA, 56- Assoc. psychiat, Jefferson Med. Col, 60- Consult, Delaware County Juvenile Court, 54-66; consult. & therapist, 66- U.S.A, 43-45. Psychol. Asn; Acad. Psychother. Family therapy—theory and techniques; systematic research on family interaction; intimate relationships conceptualized as bridge from personal to social. Publ: Co-auth, Intensive family therapy, Harper, 65; co-auth, Systematic research on family interaction, Sci. Behav, (in press); auth, Symptoms from the viewpoint of the family therapists, In: Family therapy, Int. Psychiat. Clin, Little, (in press). Address: 342 Merion Rd, Merion, Pa. 19066.

FRANCE, PROF. ROBERT R(INEHART), b. Massillon, Ohio, Aug. 12, 21; m. 48; c. 3. ECONOMICS. A.B, Oberlin Col, 47; Ph.D, Princeton, 52. Asst. indust. rel. sect, Princeton, 49-52, res. assoc, 53-54, lectr. ECON, 52-53, asst. prof, 53-56; assoc. prof, ROCHESTER, 56-62, PROF, 62-, ASSOC. PROVOST, 63-, assoc. dean arts & sci, 62-63. Labor arbit. consult. U.S.A.A.F, 42-46, Lt. Col. Acad. Arbit. Productivity and real wages; strikes; manpower economics. Publ: Union decisions in collective bargaining; co-auth, Compulsory arbitration of public utility disputes in New Jersey and Pennsylvania; auth, The relation of wages, unemployment, and prices in the U.S, 1890-1932, 1947-1957, Indust. & Labor Rels. Rev, 62. Address: Dept. of Economics, University of Rochester, Rochester, N.Y. 14627.

FRANCELLO, PROF. JOSEPH A, b. Glasco, N.Y, Mar. 1, 26; m. 50; c. 2. SOCIOLOGY, EUROPEAN HISTORY. B.A, N.Y. State Col, Albany, 49, M.A, 50; Rochester, 57; D.S.S, Syracuse, 60. Teacher, Victor Cent. Sch, N.Y, 50-57; asst. citizenship, Syracuse, 57-59; PROF. hist. & sociol, Edinboro State Col, 60-68; SOCIOL, MUHLENBERG COL, 68- U.S.N, 44-46. Festivals and family life of Seneca Indians, Salamanca, N.Y. Publ: Putting the family on T.V, Nat. Asn. Ed. Broadcasters, 1/65; Anthropology for public schools, Soc. Studies, 12/65. Address: Dept. of Sociology, Muhlenberg College, Allentown, Pa. 18104.

FRANCIS, DR. MICHAEL J, b. Oberlin, Kans, Mar. 24, 38; m. 60; c. 1. POLITICAL SCIENCE. B.A, Ft. Hays Kans. State Col, 60; Ph.D.(for. affairs), Virginia, 63. Instr. govt, Texas A&M, 63-65; ASST. PROF. polit. sci, Calif. State Col. Fullerton, 65-66; GOVT, NOTRE DAME, 66- Soc. Sci. Res. Coun. res. grant, summer 67. Polit. Sci. Asn; Int. Studies Asn. United States policy towards Latin America; Latin American voting behavior. Publ: Military aid to Latin America in the U.S. congress, J. Inter-Am. Studies, 12/64; Prospects of military aid to Latin America, Southwest. Soc. Sci. Quart, 3/66; U.S. press and Castro, Journalism Quart, summer 67. Address: Dept. of Government, University of Notre Dame, Notre Dame, Ind. 46556.

FRANCIS, PROF. ROY G(USTAF), b. Portland, Ore, Dec. 25, 19; m. 50; c. 2. SOCIOLOGY. B.A, Linfield Col, 46; M.A, Oregon, 48; univ. fel. & Ph.D. (sociol), Wisconsin, 50. Asst. sociol, Wisconsin, 47-48, acting instr, 49-50; asst. prof. & res. assoc, Tulane, 50-52; asst. prof, Minnesota, 52-61, prof. sociol. & statist. & dir. Tri-County Soc. Sci. Res. Prog, 61-66; PROF. SOCIOL. & DEAN COL. LETTERS & SCI, WISCONSIN, MILWAUKEE, 66- Mem, Exec. Reserve, 66- Soc. Sci. Res. Coun. fel, Harvard, 52-53. U.S.A.A.F, 42-45, Sgt. Fel. Sociol. Asn; Pop. Asn. Theory; population; rhetoric of science; predictive process; research methods in the behavioral sciences. Publ: Beginning social statistics, Burgess, 65; co-auth, An introduction to social research, Appleton, 67. Address: 4748 N. Wilshire Rd, Whitefish Bay, Wis. 53211.

FRANCIS, DR. WAYNE L, b. Chicago, Ill, Oct. 27, 35; m. 60; c. 1. POLITICAL SCIENCE. A.B, Wabash Col, 57; M.A, Indiana, 60, Ph.D.(polit. sci), 61. Instr. POLIT. SCI, Indiana, 61-62; asst. prof, Syracuse, 62-67; ASSOC. PROF, WASHINGTON (SEATTLE), 67- Nat. Sci. Found. res. grant, 67-68. U.S.A.R, 57-63. Polit. Sci. Asn. Simulation and mathematical models of political processes, with special emphasis on legislative processes. Publ: Legislative issues in the fifty states, Rand McNally, 68; Influence and interaction in a state legislative body, Am. Polit. Sci. Rev, 62; The role concept in legislatures: a probability model and a note on cognitive processes, J. Polit, 65. Address: Dept. of Political Science, University of Washington, Seattle, Wash. 98105.

FRANCISCO, DR. NOEL, b. Findlay, Ill, Aug. 7, 23; m. 48; c. 3. SOCIOLOGY. A.B, Drake, 45, M.A. & B.D, 48; Ph.D.(sociol), Duke, 54. Supt, Durham County & City Juvenile Detention Home, 49-52; instr. sociol, Albion Col, 53-55; assoc. prof. & head dept, Millikin, 55-59; ASSOC. PROF, Albion Col, 59-61; SOCIOL. & ANTHROP, LYCOMING COL, 61- Dir, Lycoming Center Study Democratic Living. Sociol. Asn. Sociology of religion; juvenile detention and delinquency; social psychology; social movements. Address: Dept. of Sociology & Anthropology, Lycoming College, Williamsport, Pa. 17701.

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FRANCOIS, DR. GARY RAY, b. Centralia, Ill, May 18, 37; m. 59; c. 4. PSYCHOLOGY. B.A, Washington (St. Louis), 59, M.A, 60; Ph.D.(psychol), Texas Christian, 63. Mem. staff, Life Sci. Inc, 62; instr. PSYCHOL, Arlington State Col, 62-63; ASST. PROF, KNOX COL. (ILL), 63- Psychol. Asn. Psychopharmacology. Publ: Stress induced stomach lesion as related to destruction of sympathetic ganglia, J. Psychosom. Res, 61. Address: Dept. of Psychology, Knox College, Galesburg, Ill. 61401.

FRANDA, DR. MARCUS F, b. Nassawaupee Twp, Wis, Aug. 16, 37; m. 59; c. 2. POLITICAL SCIENCE. B.A, Beloit Col, 59; A.M, Chicago, 60, Carnegie Found. teaching fel, Indian studies, 64-65, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, COLGATE, 65-, DIR. AREA STUDIES, 67- Lectr, U.S. Info. Agency, Calcutta, 63, Peace Corps, 65. Faculty scholar. int. studies, Columbia, 66-67. Shell Oil Co. excellence in teaching award, 67-68. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Asn. Asian Studies. South Asian studies; political development; comparative politics of Asia and Africa. Publ: Co-auth, State politics in India, 67 & auth, West Bengal and the federalizing process in India, 68, Princeton; Perceived images of political authority among college graduates in Calcutta, In: Occasional papers on South Asia, Mich. State, 68. Address: Dept. of Political Science, Colgate University, Hamilton, N.Y. 13346.

FRANDSEN, PROF. ARDEN N, b. Redmond, Utah, Feb. 4, 02; m. 33; c. 1. PSYCHOLOGY. B.S, Utah, 27, M.S, 29; Ph.D, Minnesota, 32. Psychologist, univ. teacher training sch, Utah, 27-29; asst. prof. psychol. & ed, 33-36; clin. psychologist, State Bd. Control, Minn, 32; PROF. PSYCHOL, UTAH STATE, 36- Assoc. prof, Purdue, 48-49; vis. prof, San Jose State Col, 55, 60; Illinois, 58; Cornell, 61; Wash. Cent. State Col, 62. Dipl, Am. Bd. Exam. Prinl. Psychol. Fel. Psychol. Asn. Learning; child and educational psychology; learning difficulties and personality problems of children. Publ: How children learn; Educational psychology; Educational psychology, McGraw, 2nd ed. 67. Address: Dept. of Psychology, Utah State University, Logan, Utah 84321.

FRANDSEN, DR. KENNETH D, Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

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FRANK, DR. BENJAMIN, b. Philadelphia, Pa, Aug. 9, 02; m. 29. PSYCHOLOGY. A.B, Pennsylvania, 26, M.A, 29; fel, Vineland Training Sch, N.J, 30; Ph.D.(psychol), N.Y. Univ, 36. Clin. psychologist, State Dept. Instns. & Agencies, N.J, 30-36; supt. ed. & training, Fed. Bur. Prisons, 36-59, chief

res. & statist, 59-62; prof. correctional admin, Southern Illinois, 62-65; TASK FORCE DIR, JOINT CMN. CORRECTIONAL MANPOWER & TRAINING, 66- Exten. lectr, George Washington, 53-54; Maryland, 55; prof. lectr, American Univ, 59-62; lectr, Maryland, 65-67. Consult, Nat. Cmn. Law Enforcement & Admin. Justice, 65-66. Psychol. Asn; Sociol. Asn. Criminology; sociology. Address: 510 N St. S.W, Washington, D.C. 20024.

FRANK, DR. CHARLES RAPHAEL, JR, b. Pittsburgh, Pa, May 15, 37; m. 63; c. 2. ECONOMICS. B.S, Rensselaer Polytech, 59; M.A, Princeton, 61; Ph.D. (econ), 63. Opers. res. analyst, U.S. Steel Res. Center, Pa, 60-61; asst. instr, Princeton, 62; sr. res. fel. econ. develop, E.African Inst. Soc. Res, Makerere Univ. Col, Uganda, 63-65; asst. prof. econ, Yale, 65-67; ASSOC. PROF. ECON. & INT. AFFAIRS, PRINCETON, 67- Consult, Agency Int. Develop, Nigeria, summer 66. Mem, working party transport & commun, Uganda Second Five-Year Nat. Plan 1966-1971, 64-65. Econ. Asn; Econo-met. Soc. Economic development and mathematical economics. Publ: The sugar industry in East Africa, E.African Pub. House, 65; co-auth, Economic accounting and development planning, Oxford, 66; auth, The theory of production and indivisibilities, Princeton, 68. Address: Woodrow Wilson School, Princeton University, Princeton, N.J. 08540.

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FRANK, DR. ELISABETH R, Sociol, see 10th ed, Soc. & Behav. Vols.

FRANK, DR. GEORGE H(UGH), b. New York, N.Y, Jan. 14, 28; m. 52; c. 5. PSYCHOLOGY. A.B, N.Y. Univ, 49; A.M, Fla. State, 54, Ph.D, 56. Intern, Topeka State Hosp, Kans, 55-56, sr. psychologist, 56-58; clin. instr, Menninger Sch. Psychiat, 56-58; clin. psychologist, FDR Vet. Admin. Hosp, Montrose, N.Y, 58-59; asst. prof. psychol, Miami (Fla), 59-66; chief clin. psychologist, Vet. Admin. Hosp, Brooklyn, N.Y, 66-68; SUPVRY. PSYCHOLOGIST, HILLSIDE HOSP, GLEN OAKS, 68- Instr. psychol, Teachers Col, Columbia, 67-; adj. assoc. prof, N.Y. Univ, 68- Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. U.S.A.A.F, 46-47. Psychol. Asn; Acad. Psychother. Measurement, treatment and development of personality; self concept; healthy personality. Publ: Study of ideal psychological adjustment, J. Clin. Psychol; Study of the process of psychotherapy; verbal interaction, J. Consult. Psychol; The role of the family in the development of psychopathology, Psychol. Bull, 65. Address: 84-29 153rd Ave, Howard Beach, N.Y. 11414.

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FRANK, DR. HENRY J, b. N.Y, June 29, 19; m. 42; c. 3. ECONOMICS. B.Sc, Columbia, 38, Ph.D, 58; M.A, Rutgers, 47. Instr. econ, Rutgers, 47-53; res. assoc. & consult, Princeton, 51-65; ASSOC. PROF, Fairleigh Dickinson, 61-66; FINANCE, RIDER COL, 66- U.S.A, 42-46, 1st Lt. Econ. Asn; Finance Asn; Govt. Res. Asn; Tax Inst. Public finance; money and banking; statistics. Publ: Co-auth, Business taxes in Florida, Fla. Coun. of 100, 65; contrib. to reports, N.J. Cmn. State Tax Policy & Maine Legis. Res. Cmt. Address: P.O. Box 104, Princeton, N.J. 08540.

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FRANK, DR. JAY E, b. New York, N.Y, Oct. 5, 16; m. 43; c. 3. PSYCHOLOGY, PUBLIC RELATIONS. B.S, N.Y. Univ, 49, M.A, 51, Ph.D.(psychol), 58. Mem. off. pub. rel, U.S. Army Recruiting Serv, Wash, 41-51; instr, high sch, N.Y, 51; lectr. ed. psychol, Wagner Col, 52; officer, placement servs, N.Y. Univ, 53; ASSOC. PROF. PSYCHOL, NEW YORK COMMUNITY COL, 53- Sig.C, U.S.A, 33-36, Med.C, 38-45. Psychol. Asn; Soc. Gen. Syst. Res. Industrial psychology for managerial problems; psychology of salesmanship; educational psychology; communications; psycholinguistics; conditioning; time estimation and experimental neuroses. Publ: On the art of not giving advice: the rationale of non-directive counseling; Wet nose-pink tongue: goals, criteria, and predictor fields in the evaluation of curricula; Organizational psychology applied to teaching. Address: 68 Montague St, Brooklyn Heights, N.Y. 11201.

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FRANK, DR. RALPH W, b. Massillon, Ohio, Sept. 10, 18; m. 42. GEOGRAPHY. B.S, Kent State, 42, M.A, 47; Ph.D, Northwestern, 52. Instr. GEOG, Kent State, 48-50; asst. prof, Cincinnati, 52-53; assoc. prof, Western Illinois, 53-56; PROF, BOWLING GREEN STATE, 56- Asn. Am. Geog; Geog. Soc. Geography of manufacturing; geography of Asia and Africa; educational geography. Publ: Use of the field trip in teaching geography, J. Geog; Decentralization of the rubber industry, Ohio J. Sci; co-auth, Ohio: the Buckeye state, In: World Book Encyclop, 67. Address: 55 Darlyn Dr, Bowling Green, Ohio 43402.

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FRANKEL, PROF. LESTER R(OBERT), b. New York, N.Y, Dec. 22, 13; m. 41; c. 2. STATISTICS. B.A, N.Y. Univ, 34; M.A, Columbia, 36. Lectr. statist, American Univ, 37-46; from assoc. prof. to PROF. STATIST, N.Y. UNIV, 46-; EXEC. V.PRES, AUDITS & SURVS. CO, INC, 57- Chief, sampling sect, Works Progress Admin, 36-42; lectr, grad. sch, U.S. Dept. Agr, 39-44; chief, sampling, sect, U.S. Bur Census, 42-44; chief statistician, Dun & Bradstreet, 46-51; v.pres. & tech. dir, Alfred Politz Res, Inc, 51-57. Mem, Soc. Sci. Res. Coun, 65-; Mkt. Res. Coun. of N.Y, pres. 64-65. U.S.N.R, 44-46, Lt.(jg). AAAS; fel. Statist. Asn; Mkt. Asn; Asn. Pub. Opinion. Sampling of human populations; mathematical models in advertising. Address: 44 Avondale Rd, White Plains, N.Y. 10605.

FRANKEL, PROF. MARVIN, b. Oakland, Calif, Mar. 28, 24; m. 51; c. 2. ECONOMICS. A.B, California, 47, Soc. Sci. Res. Coun. fel, 50-51, Ph.D. (econ), 52. From res. asst. prof. to res. prof. ECON, bur. econ. & bus. res, ILLINOIS, URBANA, 52-64, PROF, 64-, CHMN. DEPT, 67-, assoc. dean grad. col, 63-66. Consult, Rand Corp, 57-; Int. Labor Off, 62; Agency Int. Develop, 65-66. U.S.A.A.F, 43-46. Econ. Asn. Industrialization and economic change; market structure and price policy. Publ: British and American productivity, a comparison and interpretation; The production function in allocation and growth: a synthesis, Am. Econ. Rev, 12/62; Federal health expenditures in a program budget, In: Program budgeting—program analysis and the federal budget, Harvard, 66. Address: Dept. of Economics, University of Illinois, Urbana, Ill. 61801.

FRANKEL, PROF. S(AUL) J(ACOB), b. Montreal, Que, Aug. 6, 17; m. 39; c. 3. POLITICAL SCIENCE. B.A, McGill, 50, M.A, 52, Ph.D, 58. From asst. to assoc. prof. POLIT. SCI, McGILL, 53-65, PROF. & VICE-DEAN SOC. SCI. DIV, 65- Chmn, Royal Cmn. Employer-Employee Rels. in Pub. Serv. of N.B, 66-67; mem, Pub. Serv. Staff Rels. Bd, Can, 67- Can. Army, 43-45. Public administration; employer and employee relations; soviet studies. Publ: Report of the Royal Commission on Employer-Employee Relations in the Public Services of N.B, Queen's Printer, N.B, 67; Municipal labour relations in Canada; Staff relations in the Civil Service. Address: Dept. of Economics & Political Science, McGill University, Montreal 2, Que, Can.

FRANKEN, DR. ROBERT EARL, b. Stickney, S.Dak, May 19, 39. PSYCHOLOGY. B.A, Hope Col, 60; Nat. Inst. Ment. Health fel, Claremont Grad. Sch, 62-65, Ph.D.(psychol), 65. Part-time instr. PSYCHOL, San Bernardino Valley Col, 62-65; ASST. PROF, CALGARY, 65- Part-time res. asst, center res. ment. retardation, Pac. State Hosp, Calif, 62-65. Am. Psychol. Asn; Can. Psychol. Asn. Effects of stimulus complexity, novelty and variability upon discrimination learning, reversal learning and information storage and retrieval. Publ: Stimulus change, exploration and latent learning, & Stimulus change, attention and brightness discrimination learning, J. Comp. Physiological Psychol, 67; Drive level and cue utilization in spontaneous alternation, Psychonomic Sci, 67. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

FRANKFELDT, ELI, b. New York, N.Y, Apr. 29, 10; m. 36; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, City Col. New York, 33, M.S.Ed, 38; N.Y. Univ, 38-39; D.C. Teachers Col, 54-61; American Univ, 59-62. Teacher, pub. schs, N.Y, 35-38, psychologist, 38-39; dist. rep. off. mgt, State Dept. Civil Serv, 43-45; training dir, Voorheesville Army Depot, 45; mgt. analyst, Schenectady Army Depot, 45; employ. counsr, State Employ. Serv, 46-47; psychologist, State Dept. Voc. Rehab, 47-48; RES. PSYCHOLOGIST, OFF. CHIEF RES. & DEVELOP, U.S. ARMY BEHAV. SCI. RES. OFF, 48- Psychologist, State Voc. Inst, N.Y, 47-48; scholar from Henry Ford Mus. & Greenfield Village, Inter-Inst. Seminar Child Develop, 60, staff mem, 61-65. Psychol. Asn. Leadership; group processes; action research; delinquency; consumer education; general systems theory; innovation. Publ: Inter-institutional seminar experimenters; Henny Penny's rite de passage; Coming to know without formulas. Address: 6411 Seventh St. N.W, Washington, D.C. 20012.

FRANKLE, DR. ALLAN H(ENRY), b. Des Moines, Iowa, Nov. 5, 21; m. 47; c. 2. PSYCHOLOGY. Ph.D.(psychol), Chicago, 53. Dir, Des Moines Child Guid. Center, 47-52; CONSULT. CLIN. PSYCHOLOGIST, 52- Lectr, community col, Drake, 49, adj. prof. ed. psychol, col. of ed, 67- Consult, sch. soc. work, Iowa, 51-53; consult. clin. psychol, Broadlawns Polk County Hosp, 67-; int. psychol. adv, Mensa, 67- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. Sig.C, U.S.A, 43-45. Psychol. Asn; Acad. Psychother. Selection of teachers and graduate students, especially social case work; education of gifted children; creative imagination, originality and inventiveness. Publ: Psychometric investigation of the relationship between emotional repression and the occurrence of psychosomatic symptoms, Psychosom. Med. Address: 300 Des Moines Bldg, Des Moines, Iowa 50309.

FRANKLIN, DR. CARTER LONG, II, b. Gallipolis, Ohio, June 18, 39; m. 64. BUSINESS ECONOMICS. B.S, Carnegie-Mellon Univ, 61; M.S, Purdue, 62, Ph.D.(indust. admin), 68. LECTR. INDUST, WHARTON GRAD. SCH, PENNSYLVANIA, 66- The microeconomic theory of the firm; experimental and theoretical investigation of production functions in the context of managerial economics. Address: Dept. of Industry, University of Pennsylvania, Wharton Graduate School, Philadelphia, Pa. 19104.

FRANKLIN, DR. GIRARD HARRY, b. Baldwin, N.Y, May 10, 26; m. 56; c. 2. PSYCHOLOGY. B.A, Dartmouth Col, 48; M.A, N.Y. Univ, 50, Ph.D.(clin. psychol), 57; cert, Postgrad. Center Psychother, 61. Clin. psychologist, Agnews State Hosp, 50-51; Mendocino State Hosp, 51-52; PSYCHOLOGIST, Flower & Fifth Ave. Hosp, 52-54; Warwick Child Welfare Serv. Proj, 54-57; New York Childrens Court, 57-58; POSTGRAD. CENTER PSYCHOTHER, 57- Lectr, St. Lawrence, 56-58. Psychotherapist, 53-; consult, State Dept. Soc. Welfare, N.Y, 57-65; Ed. Alliance, 60-62; State Div. Youth, N.Y, 61-; Psychiat. Treatment Center, 65- U.S.N.R, 44-46. Psychol. Asn; Group Psychother. Asn. Psychoanalysis; group psychotherapy; mental health; institutional staff development. Publ: Relationship of total bodily movements to some emotional components of personality, J. Psychol; Treatment of sexual deviates with group psychodrama, Group Psychother; Group psychotherapy with delinquent boys in a training school setting, Int. J. Group Psychother. Address: 41 W. 94th St, New York, N.Y. 10025.

FRANKLIN, DR. JOHN F, b. Vienna, Austria, Sept. 27, 97; nat; m. 26; c. 1. PSYCHOLOGY. Cert, Sch. Soc. Work & Psychol, Vienna, 27; M.A, Detroit, 43; Ph.D, Michigan, 49. Psychologist, Children's Observation & Treatment Home, Vienna, 26-36; supvr, Welfare Dept, 36-38; psychologist, Vista Maria Sch, Mich, 41-46, consult, 48-53; dir, Wayne County Clin. Child Study, Mich, 46-58; CLIN. PSYCHOLOGIST, COLLIER COUNTY HEALTH DEPT, 58- Psychologist, Clinton Valley Children's Center, 45-46; lectr, Detroit, 47-58. Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. Austrian Army, 15-18, Lt. Fel. Psychol. Asn. Juvenile delinquency; sexual offences; marital counseling. Publ: Factors linked to father's age among delinquent boys; Clinical psychological studies of auto thieves. Address: 611 18th Ave. S, Naples, Fla. 33940.

FRANKLIN, JOSEPH CHARLES, b. New York, N.Y, Jan. 9, 14. MASS COMMUNICATIONS. B.S, Minnesota, 40; M.S, Purdue, 42, fel, 46-48. Clin. & res. psychologist & dir. psychol. clin, Cheltenham Sch. Boys, Md, 42-44; res. psychologist, lab. physiol. hyg, Minnesota, 44-46; instr. psychol, Indiana, 48; res. psychologist, Hopkins, 48-50; mgt. consult, Stevenson, Jordan & Harrison, Inc, N.Y, 50-51; dir. copy res, Kenyon & Eckhardt, Inc, 51-57, res. dir, Ill, 57-61; V.PRES. & RES. DIR, CAMPBELL-MITHUN, INC, 61- Instr, Inst. Coop. Res, Md, 48-50; color consult, Pittsburgh Plate Glass Co, Pa, 48-50; summer asst. prof, Tennessee, 48. Psychol. Asn; Asn. Pub. Opinion Res; Soc. Social Responsibility in Sci; Mkt. Asn. Attitudes and opinions; experimental psychology; mass media communication; modification of personal and group values. Publ: Co-auth, Observations on human behavior in experimental semistarvation and rehabilitation, J. Clin. Psychol, Rosenzweig P-F test as a measure of frustration response in semistarvation, J. Consult. Psychol. & Language of television advertising, Television. Address: Box 3513, Chicago, Ill. 60654.

FRANKLIN, DR. JULIAN H(AROLD), b. Far Rockaway, N.Y, Mar. 26, 25. POLITICAL SCIENCE & PHILOSOPHY. A.B, Queens Col.(N.Y), 46; M.A, Columbia, 50, Soc. Sci. Res. Coun. fel. & Cutting traveling fel, 53-54, Ph.D, 60. Instr. pub. law & govt, Columbia, 51-59; asst. prof. polit. sci, New Sch. Soc. Res, 59-60; polit, Princeton, 60-62; ASSOC. PROF. PUB. LAW & GOVT, COLUMBIA, 62- U.S.A.A.F, 43-46. Comparative government, especially formation of the centralized state in Western Europe; history of political philosophy. Publ: Bureaucracy and freedom, In: Man in contemporary society, 55 & Jean Bodin and the 16th century revolution, In: Methodology of law and history, 62, Columbia. Address: Dept. of Government, Columbia University, New York, N.Y. 10027.

FRANKLIN, DR. PHILIP E(ARLE), b. Detroit, Mich, Jan. 11, 28; m. 49; c. 5. ECONOMICS. B.A, George Washington, 49, M.A, 56; Ph.D.(econ), American Univ, 68. Patent analyst, Invention, Inc, D.C, 49-50; bus. economist, off.

bus. econ, U.S. Dept. Commerce, 50-52, transportation economist, bur. for. commerce, 55-56, maritime admin, 57-60, area redevelop. admin, 60-61, off. under secy. commerce for transportation, 61-62, int. economist, bur. int. commerce, 62-64, gen. economist, off. under secy. transportation, 64-67; indust. analyst, govt. patents bd, Exec. Off. President, 52-55; transportation specialist, commodity stabilization serv, U.S. Dept. Agr, 56-57; COORDINATOR WATER RESOURCES, OFF. SECY, DEPT. TRANSPORTATION, 67- Consult, UN, 65. U.S.A.A.F, 45-47; U.S.A, 51-52, 1st Lt. AAAS; Econ. Asn; Regional Sci. Asn; Transportation Res. Forum. Transportation and industrial economics; public administration. Publ: Contrib, World Trade Info. Series & Port Series; Development and administration of government patent policy, M.A. Thesis; The economic impact of flag discrimination in ocean transportation, Ph.D. Dissertation. Address: 3734 Northampton St. N.W, Washington, D.C. 20015.

FRANKLIN, DR. RAYMOND S, b. Detroit, Mich, July 18, 30; m. 62; c. 2. ECONOMICS. B.A, Wayne State, 53, M.A, 57; Ph.D.(econ), California, Berkeley, 66. Instr. ECON, Vassar Col, 61-63; lectr, City Col. New York, 65-66; ASST. PROF, QUEENS COL.(N.Y), 66- Econ. Asn. Shelter economics. Publ: The French socio-economic environment in the Eighteenth Century and its relation to the physiocrats, Am. J. Econ. & Sociol, 7/62; The rise and fall of welfare-liberalism, Quart. Rev. Econ. & Bus, spring 64; A framework for the analysis of interurban Negro-white economic differentials, Indust. & Labor Rels. Rev, 4/68. Address: Dept. of Economics, Queens College, Flushing, N.Y. 11367.

FRANKLIN, PROF. RICHARD, b. Jamestown, Ohio, May 11, 18; m. 50; c. 2. SOCIAL PSYCHOLOGY. B.A, Ohio Wesleyan, 39; M.A, Ohio State, 48; Ed.D. (soc. psychol), Columbia, 55. Asst. prof. adult ed. & community servs. consult, Kansas State, 54-56; assoc. prof. appl. sociol. & dir. community develop. inst, Southern Illinois, 56-66; PROF. & TRAINING COORDINATOR APPALACHIAN CENTER, WEST VIRGINIA, 66- Fulbright lectr, New England, Australia, 63-64. Staff mem, Community Leadership Training Labs, Maine; assoc. & mem. community affairs core cmt, Nat. Training Labs. Inst. Appl. Behav. Sci, 64- U.S.A.A.F, 43-46. Adult Ed. Asn. Human relations training in community settings; community development; workshops and conferences as media for learning and social change. Publ: Patterns of community development, Pub. Affairs, 66; co-auth, Urban decisionmaking, Nat. Training Labs. Inst. Appl. Behav. Sci, 67; auth, Training community leaders, In: Forces in community development. Address: Appalachian Center, West Virginia University, Morgantown, W.Va. 26506.

FRANKMANN, DR. RAYMOND W(INTER), b. Louisville, Ky, Mar. 11, 27; m. 54; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Harvard, 50; Nat. Sci. Found. fel, Indiana, 56-57, Ph.D, 59. Res. assoc, applied math. & statist. lab, Stanford, 57-59; asst. prof. PSYCHOL, Illinois, Urbana, 59-65; ASSOC. PROF, HOUSTON, 65- U.S.N.R, 45-46. AAAS; Psychol. Asn; Psychomet. Soc; Psychonomic Soc. Learning; quantitative methods; mathematical formulation of behavior theories. Address: Dept. of Psychology, University of Houston, Houston, Tex. 77004.

FRANKS, DR. CYRIL MAURICE, b. Neath, Wales, U.K, July 26, 23; m. 52; c. 2. EXPERIMENTAL & CLINICAL PSYCHOLOGY. B.Sc, Wales, 43; dipl, London, 47, dipl, 49, Fulbright Eng. Speaking Union & Smith Mundt fel. & dipl, 51, Ph.D.(psychol), 54; M.A, Minnesota, 52. Instr. math. & sci, London Nautical Sch, 47-50; intern clin. psychol, Maudsley Hosp, 50-51; res. asst. psychol, inst. child welfare, Minnesota, 51-52; lectr. psychol. & res. psychologist, inst. psychiat, London, 52-57; DIR. PSYCHOL, PSYCHOL. SERV. & RES. CENTER NEURO-PSYCHIAT. INST, 57- Vis. prof, Rutgers, 59-; lectr, N.J. Col. Med. & Dent, 66-; vis. lectr, Princeton, 67- Consult. psychologist, Carrier Clin, N.J, 58-; consult, Vet. Admin, 64- Nat. Inst. Ment. Health awards, 59-61, 60-63; Soc. Sci. Res. Coun. award, 60. N.Y. Acad. Sci; Am. Psychol. Asn; Asn. Adv. Behav. Ther.(pres, 66-67,v.pres, 67-68, ed, Newsletter, 66-); fel. Brit. Psychol. Soc. Psychopharmacology, psychophysiology; Pavlovian psychology and psychiatry; integration of learning, behavior and personality theory; clinical diagnosis; psychopathology; personality questionnaires; management selection; industrial consultation; market research; behavior modification and therapy. Publ: Conditioning techniques in clinical practice and research, Springer, 64; Effects of a stimulant and depressant drug on a measure of reactive inhibition, J. Exp. Psychol; Conditioning and conditioned aversion therapies in the treatment of the alcoholic, Int. J. Addictions, 1: 61-98. Address: New Jersey Neuropsychiatric Institute, Box 1000, Princeton, N.J. 08540.

FRANKS, DR. VIOLET, b. New York, N.Y, July 20, 26; m. 52; c. 2. EXPERIMENTAL & CLINICAL PSYCHOLOGY. B.S, Queens Col.(N.Y), 47; M.A, Minnesota, 50; Ph.D.(psychol), London, 59. Psychometrician testing, elem. sch-demonstration sch, Minnesota, 49-50; clin. psychologist, State Sch. & Colony, Minn, 50-52; tutor & lectr. ment. deficiency & child psychol, Nat. Asn. Ment. Health, Eng, 52-57; sr. clin. psychologist children's unit, psychol. serv. & res. center, neuro-psychiat. inst, Princeton, 59-61; dir, speech & reading clin, Middlesex Hosp, 61-66; LECTR. PSYCHOL, DOUGLASS COL, RUTGERS, 66- Training supvr, sch. psychologists, Rutgers, 60-, vis. lectr. grad. sch. of ed, 67- Consult, Mars Bars, Ltd, Eng, 55-; Carrier Clin, N.J, 60-; Midland Sch, Norm Branch, N.J, 66- Mem, Nat. Cmt. Ment. Deficiency, U.K, 55-57. Psychol. Asn; Asn. Ment. Deficiency. Child development, learning processes, speech and reading pathology; diagnosis, remedial training and behavior problems; psychotherapy; parent counseling; intern and teacher training; mental deficiency; physiology; learning and personality theories and conditioning. Publ: Conditioning in defectives and normals as related to intelligence and organic deficit, Proc. London Conf. on Sci. Study Ment. Deficiency; Conditioning and work adjustment in mental defectives, Perceptual & Motor Skills; Facing the truth, In: Mentally handicapped children. Address: 315 Prospect Ave, Princeton, N.J. 08540.

FRANTI, DR. CHARLES E, b. Ewen, Mich, Apr. 29, 33; m. 56; c. 4. BIOSTATISTICS. B.S, Michigan, 55, AM, 60; M.S, Mich. State, 60; Ph.D.(biostatist), California, Berkeley, 67. Instr. math. & biol, Suomi Col, 55-59; math, Michigan Tech, 60-62; ASST. PROF. BIOSTATIST, CALIFORNIA, DAVIS, 66- Instr, Michigan Tech, 57-59. Math. Asn; Biomet. Soc; Statist. Asn; Inst. Math. Statist; Soc. Indust. & Appl. Math. Biomedical applications of statistics; stochastic models in biology and medicine; statistical classification and discriminant functions. Publ: Co-auth, The effect of altering metabolic rate on the mortality and incubation time of rabies, Proc. Soc. Exp. Biol. & Med, 68 & Vaccination of cattle against epizootic bovine abortion, Cornell Vet, 7/69. Address: Dept. of Epidemiology, University of California, Davis, Calif. 95616.

FRANTZ, DR. CHARLES, b. Rocky Ford, Colo, Apr. 22, 25; m. 50; c. 3. SOCIAL ANTHROPOLOGY. A.B, Earlham Col, 50; Thomas Wistar Brown fel, Haverford Col, 50-51, A.M, 51; Sigmund Livingstone fel, Chicago, 51-52, Ph.D.(soc. anthrop), 58. From instr. to prof. anthrop, Portland State Col, 53-64, exec. off. of dept, 60-64; vis. prof. anthrop, Toronto, 64-65; prof. African studies & dir. African studies & res. prog, Howard, 65-66; EXEC. SECY, AM. ANTHROP. ASN, 66- Res. assoc, Chicago, 58-60; Am. Coun. Learned Socs. grant, 64. Summers, Wenner-Gren Found. grant, 60, fel, Univ. California, Los Angeles, 63 & Fulbright-Hays faculty grant, 66. Campbell award, Am. Friends Serv. Cmt, 56 & 57. Fel. Anthrop. Asn; fel. African Studies Asn; assoc. fel. Sociol. Asn; Ethnol. Soc; Soc. Appl. Anthrop; Int. African Inst; African Studies Asn. U.K. Plural, interethnic and interracial societies; religion; ritual and social organization; political organization, values and ideologies; social organization; political organization, values and ideologies; social anthropological theory; interrelations of race and culture. Publ: Racial themes in Southern Rhodesia; African personality: myth and reality, J. Human Rels; Historical continuities in an immigrant Russian sect: Doukhobor ideology and organization, In: Canadian Slavonic papers. Address: 4717 Blagden Terr. N.W, Washington, D.C. 20011.

FRANZ, DR. JACOB G(EORGE), b. Weatherford, Okla, Aug. 13, 11; wid; c. 2. SOCIOLOGY. A.B, Southwest. State Teachers Col, Okla, 31; M.A, Columbia, 39; Ph.D.(sociol), Ohio State, 60. Asst. sociol, Ohio State, 40-42; res. analyst, U.S. Dept. State, 46-50; instr. SOCIOL, MARYLAND, 50-60, ASST. PROF, 60- U.S.N, 42-45. AAAS; Soc. Study Social Probs. Small group studies; sociology of war; social problems. Publ: Survey of sociometry techniques & Place of psychodrama in research, Sociometry; Psychodrama and interviewing, Am. Soc. Rev. Address: Dept. of Sociology, University of Maryland, College Park, Md. 20742.

FRANZEN, DR. RAYMOND, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

FRASCA, PROF. WILLIAM R(OBERT), Govt, see 10th ed, Soc. & Behav. Vols, deceased 64.

FRASE, PROF. H. WELDON, b. Milwaukee, Wis, Dec. 15, 18; m. 45; c. 1. PSYCHOLOGY, EDUCATION. B.S, Wisconsin, 40; M.A, Northwestern, 46; Ed.D.(human develop), Mich. State, 58. Teacher, pub. schs, Mich, 46-49; prin. elem. schs, 49-56; asst. prof. ed, Mich. State, 56-62; dir. admissions, GRAND VALLEY STATE COL, 62-65, PROF. PSYCHOL. & ED, 65- Consult, extended class exp. room, pub. schs, Mich, 66-68; consult. & staff mem, training prog. for native Head Start teachers, Off. Econ. Opportunity, Alaska & consult, Nat. Defense Ed. Admin. Inst. Media Specialists, summer 67. U.S.A, 41-45, S/Sgt. Ed. Res. Asn; Soc. Res. Child Develop; Asn. Res. Growth Relationships (ed, jour, 65-). Longitudinal studies of children; Holt studies; study of selected cases from East Grand Rapids, Michigan. Address: 1635 Hutchinson S.E, Grand Rapids, Mich. 49506.

FRASE, DR. LAWRENCE THOMAS, b. Oak Park, Ill, May 10, 35; m. 60; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Miami (Fla), 60; Nat. Defense Ed. Act fel, Illinois, 61-64, M.S, 63, Ph.D.(ed. psychol), 65. Asst. prof. psychol, Massachusetts, 65-67; RES. SCIENTIST, BELL TEL. LABS, 67- U.S.N, 52-56. AAAS; Psychol. Asn; Ed. Res. Asn. Psychology of instructional processes; human reasoning; problem solving behaviors. Publ: Validity judgments of syllogisms, 66 & Learning from prose materials, 67, J. Ed. Psychol; Associative factors in syllogistic reasoning, J. Exp. Psychol, 68. Address: Bell Telephone Labs, Murray Hill, N.J. 07971.

FRASE, ROBERT W(ILLIAM), b. Chicago, Ill, Jan. 1, 12; m. 39; c. 3. POLITICAL ECONOMY. A.B, Wisconsin, 34; Lowenstein & Govt. fels. & M.A, Harvard, 43. Mem. staff, cmt. pub. admin, Soc. Sci. Res. Coun, 36-37; economist & adminstr, U.S. Dept. Labor, U.S. Dept. Agr. & U.S. Dept. Commerce, 38-50; ASSOC. MANAGING DIR. & ECONOMIST, AM. BOOK PUB. COUN, 50- Dir. joint Wash. off, Am. Book Pub. Coun. & Am. Textbook Pub. Inst, 60- Guggenheim fel, 48-49. Mil. Intel, 44-45, Lt. Economics of publishing and other communications industries; regulation and control of atomic energy; government regulation of industry. Publ: Co-auth, Book publishing in the U.S.S.R, 62, The book industry in Yugoslavia, 63 & Book publishing and distribution in Rumania, 65, Am. Book Publishers Coun. & Am. Textbook Publishers Inst. Address: 6704 Haycock Rd, Falls Church, Va. 22043.

FRASER, PROF. HERBERT W(ARD), b. Andover, Mass, Feb. 23, 21; m. 44; c. 1. ECONOMICS. B.A, Swarthmore Col, 43; M.A, Princeton, 50, Ph.D, 61. Instr. ECON, Lehigh, 50-56; asst. prof, Muhlenberg Col, 56-59; Washington (St. Louis), 59-65; vis. prof. & field staff mem, Rockefeller Found, Valle, Colombia, 65-67; PROF. & CHMN. DEPT, EARLHAM COL, 67- U.S.N.A.F, 43-45, Ens. Econ. Asn. Development of capital theory to explain the determination of the optimum time rates of execution of investment projects; applications to firms and underdeveloped economies; price theory; international trade theory; capital theory; economic development; experiments in the use of simulations to teach economic theory. Address: Box 62, Earlham College, Richmond, Ind. 47374.

FRASER, DR. J(OHN) KEITH, b. Ottawa, Ont, Feb. 18, 22; m. 49; c. 2. GEOGRAPHY. B.A, Toronto, 49, M.A, 55; Ph.D.(geog), Clark, 64. Geogr, res. div, GEOG. BR, DEPT. ENERGY, MINES & RESOURCES, GOVT. OF CAN, 50-56, head North. Can. sect, 57-62, CHIEF TOPONYMY DIV, 62- Sessional lectr, Carleton (Can), 62-66. Counsr, Can. Inst. Onomastic Sci, 66. Exec. secy, Can. Permanent Cmt. on Geog. Names, 64; secy, Can. Nat. Cmt, Int. Geog. Union, 67; Nat. Adv. Cmt. on Geog. Res, 67. Can. del, UN Conf.

on Standardization of Geog. Names, Geneva, Switz, 67. R.C.A.F, 42-45. Can. Asn. Geog.(archivist, 65); fel. Arctic Inst. N.Am; Royal Can. Geog. Soc. Historical geography of northern regions; toponymy; geographical terminology. Publ: Freeze-thaw frequencies and mechanical weathering in Canada, Arctic; The rational approach to geographical names in Canada, Cahiers Geog. Quebec, 66; The toponymy of the Hudson Bay region, In: Hudson Bay centennial volume, (in press). Address: 571 Fraser Ave, Ottawa 13, Ont, Can.

FRASER, DR. THOMAS M, JR, b. New York, N.Y, Mar. 19, 28; m. 55; c. 4. ANTHROPOLOGY. A.B, Harvard Col, 49; New Mexico, 50-51; M.A, Columbia, 58, Ph.D.(anthrop), 63; Brown fel. & Coun. Econ. & Cultural Affairs grant, Haverford Col, 60-61. Appl. anthropologist, Am. Friends Serv. Cmt, Barpali Village Serv, Orissa, India, 58-60; asst. prof. ANTHROP, MASSACHUSETTS, 62-66, ASSOC. PROF, 67- Consult, Bur. Far East, Agency Int. Develop, 64-65, Univ. Massachusetts Ed. Proj, Uganda, 65-; consultlectr, Peace Corps Training Progs, 64- U.S.A, 63-65. Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; Royal Asiatic Soc. Community development; minority group relations and cultural change in Southeast Asia, especially Muslim groups in Thailand. Publ: Rusembilan, a Malay fishing village, Cornell Univ, 60; Fishermen of South Thailand, Holt, 66; Culture and change in India, Univ. Massachusetts, 68. Address: Dept. of Anthropology, University of Massachusetts, Amherst, Mass. 01002.

FRASER, DR. WINIFRED D. RIACH, b. Detroit, Mich, Feb. 5, 24; m. 42, 67; c. 2. PSYCHOLOGY. B.A, Wayne State, 57, M.A, 58, Ph.D.(psychol), 62. Res. assoc. audition, auditory res. lab, WAYNE STATE, 62-64, ASST. PROF. PSYCHOL, 64- U.S. Pub. Health Serv. res. fel, 62-63; co-dir, Nat. Insts. Health res. grant, 63-67, & dir, 67-70. Psychol. Asn; Acoustical Soc. Am; Psychonomics Soc. Behavioral testing in the area of audition, specifically differential discrimination, fatigue and adaptation. Publ: Co-auth, Growth of loudness and its relationship to intensity discrimination under various levels of auditory fatigue, 34: 1764-1767 & The effect of repeated exposure to high intensity sound, 36: 1195-1198, J. Acoustical Soc. Am; auth, Normative data on a battery of discrimination tests, In: International symposium on sensorineural hearing processes and disorders, Little, 67. Address: Dept. of Psychology, Wayne State University, Detroit, Mich. 48207.

FRASURE, DEAN CARL M(AYNARD), b. Oakland, Ohio, Jan. 15, 03. POLITICAL SCIENCE. A.B, Ohio State, 24, scholar, 24-25, A.M, 25, fel, 26-27, Ph.D, 28; George Washington, 25-26; summers, Chicago, 25, 26; Cambridge, 29-30. Instr. polit. sci. & hist, WEST VIRGINIA, 27-29, asst. prof. POLIT. SCI, 30-35, assoc. prof. & acting head dept, 35-40, PROF. & HEAD DEPT, 40-, DIR. BUR. GOVT. RES, 49-, DEAN COL. ARTS & SCI, 61-, asst. dean, 35-40. Supvr, State Merit Syst, W.Va, 40-41; state dir, Off. Price Admin, 42-43; Off. Price Stabilization, 51. Consult, Off. Emergency Planning, 58- Polit. Sci. Asn. International relations. Publ: British policy on war debts and reparations; co-auth, West Virginia state and local government, 63; Final report of state (W.Va) tax study commission. Address: West Virginia University, Morgantown, W.Va. 26506.

FRAZEE, GILFORD, Bus. Admin, see 10th ed, Soc. & Behav. Vols.

FRAZER, ARTHUR W(ATSON), b. Wheeling, W.Va, May 28, 13; m. 34, 61; c. 2. ECONOMICS. A.B, W.Va. Wesleyan Col, 34; fel, Carnegie Inst. Tech, 35; American Univ, 38-41, 49-52; univ. fel, Harvard, 50. Indust. economist, U.S. Bur. Labor Statist, 38-49; economist, U.S. Air Force, 49-51; spec. asst, Nat. Prod. Authority, 51-53; asst. to asst. secy, U.S. Dept. Commerce, 53-57; indust. develop. adv, Int. Coop. Admin, Israel, 57-59; fiscal economist, U.S. Int. Coop. Admin, 60-61; sr. develop. planning adv, U.S. AGENCY INT. DEVELOP, 62-65, sr. financial economist, 65-67, CHIEF CAPITAL ASSISTANCE POLICY DIV, 68- Consult, U.S. Gen. Serv. Admin, 57; U.S. Develop. Loan Fund, 59-60; Int. Coop. Admin, 60. U.S.A.F.R, 51-62, Maj. Econ. Asn; Soc. Int. Develop; Acad. Polit. & Soc. Sci. Economics of industry; productivity and technological development; industrial mobilization; inter-industry relationships; international economics; industrial and national economic planning; rationing of physical resources; development economics; capital assistance to less developed countries. Publ: Furniture industry, regional and state analysis; Productivity and technological development in the cement industry; Cotton goods industry employment, hours and earnings in 66 areas. Address: 1903 Martha's Rd, Alexandria, Va. 22307.

FRAZER, DEAN J(OHN) RONALD, Indust. Eng. & Mgt, see Suppl. V to 11th ed, Phys. & Biol. Vols.

FRAZER, PROF. KEENER C(HAPMAN), b. Eufaula, Ala, Mar. 6, 00. POLITICAL SCIENCE. A.B, Wofford Col, 20; A.M, North Carolina, 21; Hopkins, 21-23; Carnegie fel, Geneva, 31-32; L.H.D, Birmingham-South. Col. Instr. hist, NORTH CAROLINA, 22-24, POLIT. SCI, 24-25, asst. prof, 26-30, assoc. prof, 30-36, PROF, 36- Vis. asst. prof, Virginia, 25-26; vis. Nimitz prof, Naval War Col, 55-57. Ed, The South and World Affairs, 39-48. U.S.N.R, 43-45, Lt. Comdr. Polit. Sci. Asn; Soc. Int. Law. Diplomacy; international relations; international law. Address: Dept. of Political Science, University of North Carolina, Chapel Hill, N.C. 27514.

FRAZER, DR. WILLIAM JAMES, b. McHenry, Ill, Mar. 21, 24; m. 53; c. 2. HISTORICAL GEOGRAPHY. B.S, Illinois, 52; M.A, Michigan, 53 & 57, fel, 53-59, Ph.D.(geog), 59. Instr. GEOG, Western Michigan, 59; asst. prof, Wis. State Col.(Oshkosh), 59-63; assoc. prof, Central Michigan, 63-65; CHMN. DEPT, SONOMA STATE COL, 65- Fulbright award & lectr, Univ. Karachi, 62-63. U.S.A, 43-47. Asn. Am. Geog; Am. Geog. Soc; Hakluyt Soc. Land reclamation and use in arid areas. Publ: Changing patterns of land utilization in the Salt River Valley of Arizona. Address: Dept. of Geography, Sonoma State College, 1801 E. Cotati Ave, Rohnert Park, Calif. 94928.

FRAZER, DR. WILLIAM J(OHNSON), JR, b. Greenville, Ala, Oct. 15, 24; m. 49; c. 1. ECONOMICS. A.B, Huntingdon Col, 50; M.A, Columbia, 53, Ph.D.(econ), 68; fel, Ford Found. Inst. Basic Math, Harvard, 60-61. Instr. econ, Pratt Inst, 53-54; Rensselaer Polytech, 54-56; economist, Fed. Reserve Bank New York, 56-57; asst. prof. FINANCE, FLORIDA, 57-65, ASSOC. PROF, 65- Nat. Sci. Found. sci. faculty summer fel, 65; sr. economist, Fed. Reserve Bank of Chicago, 66-67; vis. assoc. prof, Kentucky, 67-68. U.S.N, 43-46. Econ. Asn; Finance Asn. Monetary and mathematical economics; econometrics. Publ: Co-auth, Introduction to the analytics and institutions of money and banking, Van Nostrand, 65; auth, The demand for money, World, 67; The liquidity structure of firms and monetary economics, Univ. Florida Monogr, summer 65. Address: College of Business Administration, University of Florida, Gainesville, Fla. 32601.

FRAZIER, DR. CHARLES EDWARD, JR, Latin Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FRAZIER, DR. DAVID, Statist, see 11th ed, Phys. & Biol. Vols.

FRAZIER, PROF. DELMAR RAY, b. Wichita, Kans, July 29, 15; m. 38; c. 1. ECONOMICS. B.S.B.A, Florida, 63, M.A, 64. Warehouse supt, Birch, Johnson, Lytle, Joint Venture, Alaska, 47-49; mgr. stocks, Wieboldt Stores, Inc, Ill, 49-51; mat. supvr, Fairchild Aircraft Div, Fairchild Engine & Airplane Corp, Md, 51-57, mat. mgr, Fla, 59-61; mat. control analyst, res. & develop, Pratt & Whitney Div, United Aircraft Corp, Fla, 57-59; res. assoc, bur. econ. & bus. res, Florida, 65; ASSOC. PROF. ECON, AUSTIN PEAY STATE, 65- U.S.A, 40-47, Res, 47-67, Lt. Col. Econ. Asn. Aggregation of the individual welfare function; mortgage credit criteria for low income families. Address: Dept. of Economics, Austin Peay State University, Box 4242, Clarksville, Tenn. 37040.

FRAZIER, PROF. E(DWARD) FRANKLIN, Sociol, see 10th ed, Soc. & Behav. Vols, deceased.

FRAZIER, DR. GEORGE D, b. Creston, Iowa, Nov. 29, 26; m. 50; c. 3. FOREST ECONOMICS. B.S, Idaho, 50, M.S, 59; Ph.D.(forestry), Yale, 67. Forestry & agr. economist, Idaho, 57-59; res. forester, Pac. Southwest Forestry & Range Exp. Sta, U.S. Dept. Agr, 59-62, proj. leader, for. prfnl. mkt, 62-65; analyst, OPER. RES, BOISE CASCADE CORP, 65-66, DIR, 66- Lectr, Col. Forest Resources, Washington (Seattle), 68. Mkt. Asn; Soc. Am. Foresters; Inst. Mgt. Sci; Agr. Econ. Asn; Econ. Asn; Asn. Bus. Econ. Economics; operations research; business organization. Address: Boise Cascade Corp, P.O. Box 200, Boise, Idaho 83701.

FRAZIER, PROF. SHERVERT, HUGHES, Psychiat, Psychoanal. See 11th ed, Suppl. II to Phys. & Biol. Vols.

FRAZIER, DR. TODD MEARL, Biostatist, see 11th ed, Phys. & Biol. Vols.

FRECHTMAN, JULIAN, Math, see 10th ed, Soc. & Behav. Vols.

FREDENBURGH, PROF. F(RANZ) A(LVAH), b. Syracuse, N.Y, Nov. 18, 06. PSYCHOLOGY. A.B, Oklahoma, 35; M.A, N.Y. Univ, 36, Ph.D.(personnel psychol), 39. Adv. men, City Col. New York, 35-36, 42-43; dir. student personnel, Mepham High Sch, 37-40; guid, Dept. Pub. Instr, Hudson, N.Y, 40-42; personnel dir, Gimbel Bros, 43-44; dir. indust. rels, Loft Candy Corp, 44-46; asst. to pres, A.S. Beck Shoe Corp, 46-47; prof. psychol. & dean faculty, Quinnipiac Col, 47-49; personnel dir, Great Am. Group of Ins. Co, N.Y, 49-57; sch. psychologist, bd. coop. ed. serv, Dutchess County, 59-66; lectr, Dutchess Community Col, 60-61, prof. psychol, 61-66; PROF. PSYCHOL. & CHMN. DEPT. BEHAV. SCI, MIAMI-DADE JR. COL, S. CAMPUS, 66- Lectr, N.Y. Univ, 38, 46-47. Psychol. Asn. Child and adult psychotherapy. Publ: Handbook for the behavioral sciences, Dutchess Community Col. Press, 64; Innovating instruction through team teaching, Jr. Col. J, 10/61; Maximal utilization of instructional time, College and university, 68. Address: 110 N. Prospect Dr, Coral Gables, Fla. 33133.

FREDERICK, DR. CALVIN J(EFFERSON), b. Muskogee, Okla, Sept. 22, 17; m; c. 5. PSYCHOLOGY. B.F.A, Oklahoma, 40; M.A, California, Los Angeles, 54, U.S. Pub. Health Serv. fel, 52-54, Ph.D.(physiol. psychol), 55. Clin. asst, psychol. & speech clin, California, Los Angeles, 50-51, trainee, Vet. Admin. Neuropsychiat. Hosp, Los Angeles, 51-52; sr. clin. psychologist, Pac. State Hosp, Pomona, Calif, 54-55; staff clin. psychologist, PATTON STATE HOSP, 55-63, CHIEF PSYCHOLOGIST, 63- Lectr, California, Riverside, 56-; Redlands, 58-59; Pomona Col, 60-65; Univ. Col, Southern California, 61-63. Private practice, 56- Cert. in clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 65; cert. in clin. hypnosis, Am. Bd. Exam. Psychol. Hypnosis, 67. Psychol. Asn; Royal Soc. Med. Speech pathology; suicidology; graphology; physiology; hypnosis. Publ: Co-auth, A validity study of the Rorschach prognostic rating scale, J. Proj. Tech, Vol. 18: 2; auth, Some phenomena affecting handwriting analysis, Perceptual & Motor Skills, 20: 211-218; An investigation of handwriting of suicide persons through suicide notes, J. Abnorm. Psychol, (in press). Address: Patton State Hospital, Patton, Calif. 92369.

FREDERICK, DR. EDRIS (PINNEY), b. Ripley, N.Y, Sept. 2, 20; m. 64. POLITICAL SCIENCE. A.B, Wayne State, 40; M.A, Northwestern, 44, Ph.D.(polit. sci), 51. Res. assoc, indust. rels. center, Univ. Chicago, 51-52; dir. adult ed, West Side YWCA, Chicago, 52-55; supvr. vol. serv, Travelers Aid Soc. Chicago, 55-61; asst. prof. POLIT. SCI, NORTHEAST. ILL. STATE COL, 61-64, ASSOC. PROF, 64-, CHMN. DEPT. POLIT. SCI. & ECON, 66- Polit. Sci. Asn. Comparative government; international relations; legislative process. Address: Dept. of Political Science, Northeastern Illinois State College, Bryn Mawr at St. Louis, Chicago, Ill. 60625.

FREDERICK, DR. JOHN H(UTCHINSON), b. Urbana, Ill, Jan. 3, 96; m. 23; c. 1. BUSINESS ADMINISTRATION. B.S, Pennsylvania, 18, A.M, 25, Ph.D, 27. Instr. commerce & transportation, Wharton Sch. Finance, Pennsylvania, 23-28, asst. prof. mkt, 28-37, assoc. prof, 37-38; prof. transportation & indust, sch. bus. admin, Texas, 38-46; transportation & for. trade, col. bus. & pub. admin, Maryland, 46-62, head dept. bus. orgn, 52-62; RETIRED. Chief distribution mfrs. sales, U.S. Bur. Census, 35-37. Consult, House Cmt. Interstate & For. Commerce, 46-48; Transportation Asn. Am, 49-53; econ. adv, Defense Transportation Admin, 51-52; consult, Hoover Cmn. Exec. Depts, 54. Managing ed, Electrical Wholesaling & Wholesalers Salesman, 37-38. Mem, Maine State Transportation Cmn, 35- U.S.A, 17, Lt.

Mkt. Asn; Soc. Traffic & Transportation. Transportation economics; air transportation; traffic management. Publ: Traffic department organization; Using public warehouses; Commercial air transportation. Address: 140 Bay View Rd, Camden, Maine 04843.

FREDERICK, DR. KENNETH D(YER), b. Ft. Meade, Md, Jan. 14, 39; m. 62; c. 1. ECONOMICS. B.S, Amherst Col, 61; Ph.D.(econ), Mass. Inst. Tech, 65. Econ. adv, Agency Int. Develop, 65-67; ASST. PROF. ECON, CALIF. INST. TECH, 67- Econ. Asn. Address: Dept. of Economics, California Institute of Technology, 1201 E. California Blvd, Pasadena, Calif. 91109.

FREDERICK, PROF. WILLIAM C(RITTENDEN), b. Mena, Ark, May 4, 25; m. 58. ECONOMICS. B.A, Texas, 50, fel, 52-53, Ph.D.(econ), 58. Asst. prof. bus. admin, Tampa, 53-55; instr. soc. sci. & econ, Florida, 55-58; assoc. prof. mgt. & econ, Univ. Kansas City, 58-60, acting dean, sch. bus. admin, 60-61, prof. mgt. & econ. & dean, 61-63; assoc. dean GRAD. SCH. BUS, PITTSBURGH, 63-64, dean, 64-66, PROF. BUS. ADMIN, 66- Vis. lectr, grad. sch. bus, Columbia, summer 62. Med.C, 44-46, S/Sgt. Econ. Asn; Asn. Evolutionary Econ. Historical-anthropological analysis of economic institutions; business values; relationships between business institutions and society; comparative management education. Publ: Market as a factor in economic growth, Southwest. Soc. Sci. Quart; Growing concern over business responsibility, Calif. Mgt. Rev; Was Veblen right about the future of business enterprise?, Am. J. Econ. & Sociol. Address: Graduate School of Business, University of Pittsburgh, Pittsburgh, Pa. 15213.

FREDERICKS, DR. MARCELLINUS A, b. Brit. Guiana, Apr. 26, 27; m. 66. MEDICAL SOCIOLOGY. B.S, Loyola, 59, M.A, 61, Ph.D.(med. sociol), 65. Asst. sociol, Loyola, 60-62, teaching fel, 62-63, instr, 64-65, asst. prof. med. sociol, 65-67; NAT. INSTS. HEALTH RES. FEL. PEDIAT, HARVARD MED. SCH, 67- Assoc. Asn. Am. Med. Cols. Transcultural analyses of medical education and sociology and professional training through long-range international survey of the Americas. Publ: Co-auth, The relationship between social class, AGC, MCAT, and academic achievement of students in a medical school, 2/67 & Social class, stress-anxiety responses, academic achievement, and professional attitudes of students in a medical school, 11/67, J. Med. Ed; Social backgrounds and some selected attitudes of physicians in a developing nation, W. Indian Med. J, 12/67. Address: Family Health Care, Harvard Medical School, 83 Francis St, Boston, Mass. 02115.

FREDERIKSEN, DR. NORMAN (OLIVER), b. Seibert, Colo, Feb. 9, 09; m. 36; c. 2. PSYCHOLOGY. A.B, Nebr. Wesleyan, 31; M.A, Nebraska, 33; Ph.D. (psychol), Syracuse, 37. Instr. psychol, Syracuse, 34-37; Princeton, 37-42; asst. prof, 42-46, assoc. prof. & dir. counseling serv, 46-55; res. assoc, ED. TESTING SERV, 48-50, DIR. RES, 50- Res. assoc, Col. Entrance Exam. Bd, 42-48. Psychol. Asn; Psychomet. Soc; Soc. Multivariate Exp. Psychol. Personality; organizational behavior. Publ: Co-ed, Contributions to mathematical psychology, Holt, 64; co-auth, Adjustment to college, Ed. Testing Serv, 51; Administrative performance and personality. Address: Educational Testing Service, Princeton, N.J. 08540.

FREDIAN, DR. ALAN J(AMES), b. Chicago, Ill, Feb. 2, 31; m. 55; c. 3. PSYCHOLOGY. B.S, St. Mary's Col.(Minn), 52; M.A, Loyola (Ill), 54; Ph.D. (psychol), Ill. Inst. Tech, 56. Instr. psychol, Illinois, 55-56; dir, personnel serv. div, John A. Patton, Mgt. Engrs, Inc, 56-59; consult. mgt. psychol, Peat, Marwick, Mittchell & Co, 59-63; v.pres. staff, St. Paul Fed, 63-67; ASSOC. PROF. MGT, LOYOLA (ILL), 67- V.pres, Appl. Mgt. Res, Inc, 67- Psychol Asn. Programmed learning; teaching machines; psychology of organization and personal development; group dynamics; tests and measurements; motivation; communication; construction of clerical proficiency tests. Publ: Experimental investigation of the effect of cohesiveness on productivity; Personality test scores in the management hierarchy, J. Appl. Psychol; co-auth, Management services handbook, Am. Inst. Cert. Pub. Accountants, 62. Address: 230 N. Michigan Ave, Chicago, Ill. 60601.

FREDLAND, PROF. ROGER, b. Lincoln, Maine, Dec. 1, 16; m. 40; c. 5. ECONOMICS. A.B, Bates Col, 36; Princeton, 36-38; Found. Econ. Ed. fel, 51; Ph.D.(econ), American Univ, 56. Instr. Eng. composition, Pa. State Col, 38-41; from instr. to PROF. ECON, U.S. NAVAL ACAD, 41-, CHMN. ECON. CMT, 48- U.S.N.R, 43-45, Lt. Econ. Asn. Economic theory. Publ: Keynesian thinking and United States fiscal and monetary policy; co-auth, American sea power since 1775; co-auth. & asst. ed, Sea power: a history. Address: Dept. of English, History & Government, U.S. Naval Academy, Annapolis, Md. 21402.

FREDMAN, H. B, b. New York, N.Y, Dec. 1, 21; m. 53; c. 1. ANTHROPOLOGY, HISTORY. B.A, California, Los Angeles, 43; M.A, California, Berkeley, 48. Lectr. & asst. Japanese hist, California, Berkeley, 47-49; exec. officer for. opers, U.S. Info. Serv, Korea, 50-52; br. chief, U.S. Info. Agency, 52-54; asst. chief R&D for. opers, Asia Found, 54-57, asst. rep. for. opers, 57-58; for. opers. consult, 58-59; analyst war gaming & opers. res, Rand Corp, 59-62; SR. ANALYST. opers. res, Res. Triangle Inst, 62-63; RES. ANAL. CORP, 63- Mil. Intel, U.S.A, 42-46. Oriental Soc. Operations analysis of military operations, including war gaming; operations analysis of non-military, governmental foreign operations; analysis of social institutions; Asia. Address: 1827 Panorama Court, McLean, Va. 22101.

FREDRICKSEN, PROF. FLORENCE MYRUM, French Lit, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

FREDRICKSON, PROF. CARMEN D(ANIES), b. Franklin, Idaho, Feb. 16, 99; m. 25. SOCIOLOGY. B.S, Utah State, 22, M.S, 35; Chicago, 37; Columbia, 48; Cornell, 56. Instr. SOCIOL, UTAH STATE, 45-49, asst. prof, 49-54, from assoc. prof. to EMER. ASSOC. PROF, 54- Women today; public libraries in Utah. Publ: Most areas in Utah lack adequate library services; Working mothers. Address: Dept. of Sociology, Utah State University, Logan, Utah 84321.

FREDRICKSON, PROF. J. WILLIAM, b. Oak Park, Ill, May 24, 17; m. 46; c. 3. ECONOMICS, ECONOMIC HISTORY. B.S, Northwestern, 38; A.M, Chicago, 43, Ph.D, 53. PROF. ECON. & ECON. HIST, N.PARK COL, 40- Fulbright lectr, Finland, 55-56; participant Ford Found. Summer Seminar, Northwestern, 57. Econ. Asn; Econ. Hist. Asn. Publ: American shipping in the trade with northern Europe 1783-1860, Econ. Hist. Rev, Vol. 14, No. 2, Economic recovery of Finland since World War I, J. Polit. Econ, 2/60. Address: Dept. of Economics, North Park College, Chicago, Ill. 60625.

FREEBAIRN, DR. DONALD K, b. La Salle, Ill, Jan. 30, 29. AGRICULTURAL ECONOMICS. B.S, Illinois, 50, M.S, 52; Ph.D, Cornell, 56. From asst. agr. economist to assoc. agr. economist, Rockefeller Found, 56-64; ASSOC. PROF. AGR. ECON, CORNELL, 64- Dir, Latin Am. Studies Prog, Cornell, 67- Consult, Food & Agr. Orgn-Int. Bank Reconstruct. & Develop. Joint Prog, 66. Agr. Econ. Asn; Latin Am. Studies Asn. Agricultural resource productivity and development; farm management. Publ: Relative production efficiency between tenure classes in the Yaqui Valley, Sonora, Mexico, J. Farm Econ, 12/63; co-auth, Economia agricola del Noroeste. La agricultura en el sistema de pequeña propiedad, 11/64 & Economia agricola en el Valle del Yaqui. Los ejidatarios individuales, 1/65, Instituto Nacional de Investigaciones Agricolas, Mexico. Address: 349 Warren Hall, Cornell University, Ithaca, N.Y. 14850.

FREEBERG, DR. NORMAN EDWARD, b. New York, N.Y, Feb. 7, 31; m. 61. INDUSTRIAL & EXPERIMENTAL PSYCHOLOGY. B.A, City Col. New York, 52; M.A, Ohio State, 53, Ph.D.(psychol), 55. Res. psychologist exp. psychol, Link Div, Gen. Precision, Inc, 59-60; head, human factors group, Airborne Instruments Lab. Div, Cutler-Hammer, Inc, 60-63, consult. indust. psychol, 63-65; sr. psychologist, Grumman Corp, 63-65; RES. PSYCHOLOGIST, ED. TESTING SERV, 65- Vis. lectr, Queens Col.(N.Y), 64-65; Grad. Div, Rutgers, 66- Med.Serv.C, 56-59, Lt. AAAS; Psychol. Asn. Construction of rating scales; theory of rating and judgement; development of criteria; visual form perception. Publ: Light and shadow effects in recognition of complex textured surfaces, Perceptual & Motor Skills, 66; The biographical information blank as a predictor of student achievement: a review, Psychol. Reports, 67; co-auth, Dimensions of parental practice concerned with cognitive development in the preschool child, J. Genetic Psychol, 12/67. Address: Educational Testing Service, Princeton, N.J. 08540.

FREEBURNE, PROF. CECIL MAX, b. Sublette, Kans, Aug. 19, 18; m. 41; c. 2. PSYCHOLOGY. B.S.Ed, Kans. State Teachers Col, 40; M.A, Iowa, 41; Ph.D. (psychol), 48. Asst. prof. PSYCHOL, BOWLING GREEN STATE, 48-49, assoc. prof, 49-60, PROF, 60-, chmn. dept, 60-64. Vis. scientist, Ohio Acad. Sci, 64- U.S.A.A.F, 42-46. Fel. Psychol. Asn. Learning and motivation; perception; historical and philosophical science; psychological theory; statistics and experimental design; educational psychology. Publ: Influence of training in perceptual span and perceptual speed upon reading ability, J. Ed. Psychol; Shock for right and wrong responses during learning and extinction in human subject, J. Exp. Psychol; Discrimination learning with shock for right and wrong responses in the same subjects, J. Comp. & Physiol. Address: Dept. of Psychology, Bowling Green State University, Bowling Green, Ohio 43402.

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FREED, DR. DOUGLAS WILLIAM, Psychol, see 10th ed, Soc. & Behav. Vols.

FREED, DR. EARL XANDER, b. New Haven, Conn, Sept. 8, 28; m. 51; c. 2. CLINICAL PSYCHOLOGY. A.B, Yale, 48; M.A, Syracuse, 51, Ph.D.(clin. psychol), 52. Counsr, ment. hyg. serv, Syracuse, 50-51; intern, Worcester State Hosp, Mass, 51-52; chief psychologist, Cent. Nebr. Ment. Hyg. Clin, 52-53; clin. psychologist, Vet. Admin. Hosp, Albany, N.Y, 53-54; instr. psychol, Fairleigh Dickinson, 55-62; CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, LYONS, 58-, DIR. ALCOHOL RES. LAB, 64- Lectr, Hastings Col, 53; instr, Albany Med. Col, 54; private practice, 59- Psychol. Asn; N.Y. Acad. Sci. Publ: Co-auth, Relation of cardiac disease to feelings of fear, J. Pediat; Behavioral rating scale for mental patients: J. Ment. Sci; Somato-psychotherapeutic approach to long-term schizophrenic patients, J. Nerv. & Ment. Disease. Address: 44 Shadowlawn Dr, Livingston, N.J. 07039.

FREED, DR. RUTH S, b. Chicago, Ill, Nov. 10, 22; m. 55. CULTURAL ANTHROPOLOGY. B.A, Chicago, 40; Ph.D.(anthrop), California, Berkeley, 58. Asst. phys. anthrop, California, Berkeley, 52-55; ASST. PROF. ANTHROP, N.Y. UNIV, 65- Fels, Soc. Sci. Res. Coun, India, 57-58, Nat. Sci. Found, 58-59 & Am. Mus. Natural Hist-Voss Fund, Mohave, 63-64. AAAS; fel. Anthrop. Asn. Social anthropology of rural and urban India; North American Indians; role and kinship; history of anthropological theory; personality and culture. Publ: Co-auth, Calendars, ceremonies and festivals in a north Indian village: necessary calendric information for fieldwork, Southwest. J. Anthrop, 64; Spirit possession as illness in a north Indian village, Ethnology, 64; Unity in diversity in the celebration of cattle-curing rites in a north Indian village: a study in the resolution of conflict, AAAS J, 66. Address: Dept. of Anthropology, New York University, 25 Waverly Place, New York, N.Y. 10003.

FREED, DR. STANLEY A(RTHUR), b. Springfield, Ohio, Apr. 18, 27; m. 55. CULTURAL ANTHROPOLOGY. Ph.B, Chicago, 49; B.A, California, 51, Ph.D.(anthrop), 57. Vis. asst. prof. anthrop, North Carolina, 59-60; asst. curator N.AM. ETHNOL, AM. MUS. NAT. HIST, 60-65, ASSOC. CURATOR, 65- Soc. Sci. Res. Coun. fel, 57-58; Nat. Sci. Found. fel, 58-59; Lewis Henry

Morgan co-lectr, Rochester, 67. U.S.A, 45-46. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop; Asn. Asian Studies. Social structure; acculturation; peoples of India; North American ethnology. Publ: A comparison of the reactions of Washo and Mohave respondents to an objective technique (role profile test) for measuring role behavior, Trans. N.Y. Acad. Sci, 6/65; co-auth, Unity in diversity in the celebration of cattle curing rites in a North Indian village: a study in the resolution of conflict, Am. Anthropologist, 6/66; Man from the beginning, Creative Ed. Soc, 67. Address: American Museum of Natural History, Central Park West at 79th St, New York, N.Y. 10024.

FREEDHEIM, DR. DONALD K(OPERLIK), b. Cleveland, Ohio, Aug. 31, 32; m. 58; c. 1. PSYCHOLOGY. A.B, Miami (Ohio), 54; Ph.D, Duke, 60. Psychologist, N.C. Cerebral Palsy Hosp, Durham, 55-57; jr. staff psychologist, Durham Child Guid. Clin, 58-59; CLIN. PSYCHOLOGIST, MENT. DEVELOP. CENTER, CASE WESTERN RESERVE, 60-, ASST. PROF. PSYCHOL, UNIV, 65-, clin. instr, 60-65. Ed, Clin. Psychologist, 66- Consult, Soc. Crippled Children, Ohio, 60-; Family Serv. Asn. Cleveland, 61-; Detroit Pub. Schs. & ment. retardation br, U.S. Pub. Health Serv, 65- Psychol. Asn; Asn. Ment. Deficiency. Child development and parent education; mental retardation and children's handicaps; mental abilities of cerebral palsied and parent attitudes. Publ: Co-auth, Parent attitude study, Child Develop; Further studies on intelligence levels in cerebral palsied children & Retests of IQ on cerebral palsied children, Am. J. Phys. Med. Address: Dept. of Psychology, Case Western Reserve University, Cleveland, Ohio 44106.

FREEDMAN, DR. ALFRED MORDECAI, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

FREEDMAN, DR. ANNE E, b. Passaic, N.J, Apr. 6, 38; m. 60; c. 1. POLITICAL SCIENCE. B.A, Rutgers, 59; Woodrow Wilson fel, California, Berkeley, 59, M.A, 60; Ph.D.(polit. sci), Iowa, 64. Instr. govt, Wheaton Col. (Mass), 64-65; POLIT. SCI, St. Xavier Col.(Ill), 65-66; ASST. PROF, ROOSEVELT, 66- Res. assoc, Radcliffe Inst. Independent Study, 63-65 & summers, 66 & 67. Contemporary political theory; political psychology and socialization; political relevance of experimental psychology. Address: 618-A South Blvd, Evanston, Ill. 60202.

FREEDMAN, DR. ARNOLD, b. Wilmington, Del, Jan. 7, 27; m. 55; c. 2. PSYCHOLOGY. B.A, Delaware, 50; M.S, Illinois, 54, Ph.D.(psychol), 57. Psychologist, VET. ADMIN. HOSP, PITTSBURGH, 57-65, CHIEF PSYCHOL. SERV, 65- Lectr, Pittsburgh, 65- U.S.N, 45-46. Psychol. Asn. Training of graduate students in psychology and rehabilitation; behavior modification; assessment of psychological status; rehabilitation. Address: Psychology Service, Veterans' Administration Hospital, University Dr. C, Pittsburgh, Pa. 15240.

FREEDMAN, DR. ARTHUR M(ERTON), b. Toledo, Ohio, Mar. 16, 16. ECONOMICS. A.B, Toledo, 38; Taft scholar, Cincinnati, 38-40, A.M, 39; Harrison fel, Pennsylvania, 40-42, Ph.D.(econ), 59. Instr. econ, Brown, 46-48; asst. prof, Bates Col, 48-55; from lectr. to asst. prof. FINANCE, PENNSYLVANIA, 55-64, ASSOC. PROF, 64- Finance Asn; Am. Econ. Asn; Royal Econ. Soc. Economic and monetary theory; finance. Publ: Co-auth, Money and banking: analysis and policy, Macmillan, 63 & 68. Address: Dept. of Finance, University of Pennsylvania, Philadelphia, Pa. 19104.

FREEDMAN, DR. DANIEL G, Psychol, see 10th ed, Soc. & Behav. Vols.

FREEDMAN, DR. DAVID A(MIEL), b. Montreal, Que, Mar. 5, 38; m. 63; c. 1. STATISTICS. B.Sc, McGill, 58; univ. & Moyse traveling scholars & M.A, Princeton, 59, Rand fel. & Ph.D, 60. Can. Coun. fel. STATIST, Imp. Col, London, 60-61; lectr, CALIFORNIA, BERKELEY, 61-62, asst. prof, 62-63, ASSOC. PROF, 63- Inst. Math. Statist; Statist. Asn. Stochastic processes. Publ: Mixtures of Markov processes, Ann. Math. Statist, 3/62. Address: Dept. of Statistics, University of California, Berkeley, Calif. 94720.

FREEDMAN, DR. LAWRENCE ZELIC, Psychiat, see 11th ed, Phys. & Biol. Vols.

FREEDMAN, DR. MERVIN B(URTON), b. New York, N.Y, Mar. 6, 20; m. 52; c. 3. PSYCHOLOGY. B.S, City Col. New York, 40; Ph.D.(psychol), California, 50. Res. assoc. psychosomat. res, dept. psychiat, med. sch, California, 50-51, lectr. psychol, 51-53, res. assoc, 53-58; coordinator, Mellon Found. Adv. Ed, Vassar Col, 58-60; fel, Center Adv. Study Behav. Sci, 60-61; sr. Fulbright res. fel, Oslo, 61-62; res. assoc. psychol, inst. study human probs, Stanford, 62-63, asst. dean undergrad. ed, 63-65; CHMN. DEPT. PSYCHOL, SAN FRANCISCO STATE COL, 65- Consult, Bur. Higher Ed. Res, U.S. Off. Ed, 65- Higher education ed, Jossey-Bass Pub. Co. U.S.A, 42-46, Lt. Fel. Psychol. Asn. Higher education: personality development in adolescence and young adulthood. Publ: The college experience, Jossey-Bass, 67; The student and climates of learning, U.S. Off. Ed, 67; Root of student discontent: the post-industrial generation, The Nation, 65. Address: Dept. of Psychology, San Francisco State College, San Francisco, Calif. 94132.

FREEDMAN, DR. MILTON, b. St. Louis, Mo, Feb. 19, 24; m. 47; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Washington (St. Louis), 47, M.A, 49; Ph.D, Chicago, 52. Teaching asst, for. student prog, Washington (St. Louis), 52; dir. conf. leadership proj, indust. rels. center, Univ. Chicago, 52-55, instr, 55; exec. dir, Ment. Health Asn. St. Louis, 55-59; clin. psychologist, Vet. Admin. Hosp, Jefferson Barracks, Mo, 59-65, asst. chief psychol. serv, 65-66; dir. guid. & counseling, Job Corps, Mo, 66-67; PROG. CONSULT, ILL. DEPT. MENT. HEALTH, 67- Assoc. prof, Missouri, St. Louis, 61- U.S.A, 43-46. Psychol. Asn. Dynamics of small groups; human relations in industry; community mental health education. Publ: Co-auth, Conference leader's notebook; Effective group relations, Phys. Ther. Rev; T group training for psychology trainees, Newsletter Res. in Psychol, 11/66. Address: 8701 W. Kingsbury, University City, Mo. 63124.

FREEDMAN, NELSON LESLIE, b. Canton, Ohio, Sept. 26, 37; m. 60; c. 2. PHYSIOLOGICAL PSYCHOLOGY. B.Sc, Ohio State, 60; M.A, Missouri, 63, Nat. Inst. Ment. Health fel, 65, Ph.D.(psychol), 66. ASST. PROF. PSYCHOL, QUEEN'S (ONT), 65- Vis. scientist, inst. physiol, Czech. Acad. Sci, summer 69. Electrophysiology; spreading cortical depression; sensory deprivation; sleep. Publ: Bilateral differences in the human occipital electroencephalogram with unilateral photic driving, Science, 63; co-auth, EEG arousal decrement during paired-associate learning, J. Comp. & Physiol. Psychol, 66 & Learning and motor activity under spreading depression depending on EEG amplitude, Physiol. & Behav, 68. Address: Dept. of Psychology, Queen's University, 75 Union St, Kingston, Ont, Can.

FREEDMAN, DR. PHILIP ESAU, b. Springfield, Mass, Apr. 6, 38; m. 60; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Rutgers, 60; M.A, Iowa, 62, Ph.D.(psychol), 63. ASST. PROF. PSYCHOL, ILLINOIS, CHICAGO, 65-Med.Serv.C, U.S.A, 63-65, Capt. Psychol. Asn; Psychonomic Soc. Learning and motivation emphasizing the acquisition and performance of avoidance behavior. Publ: Habituation of alternation behavior, J. Exp. Psychol, 65; co-auth, Behavioral effects of cholinergic stimulation of the thalamic reticular formation, J. Comp. Physiol. Psychol, 65; auth, Human maze learning as a function of stress and partial reinforcement, Psychol. Reports, 66. Address: 618A South Blvd, Evanston, Ill. 60202.

FREEDMAN, PROF. RONALD, b. Winnipeg, Man, Aug. 8, 17; nat; m. 42; c. 2. SOCIOLOGY. B.A, Michigan, 39, M.A, 40; Ph.D, Chicago, 47. Inst. SOCIOL, MICHIGAN, 46-49, asst. prof, 49-53, assoc. prof, 53-57, PROF, 57-, ASSOC. DIR. POP. STUDIES CENTER, 67-, dir, 62-66; res. assoc, surv. res. center, 49-62. Consult, Nat. Insts. Health; U.S. Bur. Census; Pop. Coun; Ford Found; Taiwan Pop. Studies Center. Mem. cmt. pop, Nat. Acad. Sci, 66-U.S.A.A.F, 42-45. Sociol. Asn; Rural Sociol. Soc; Statist. Asn; Pop. Asn. Population trends; urban community organization; family planning programs in Asia and the United States. Publ: Principles of sociology; Population, the vital revolution, Doubleday, 64; The sociology of human fertility, Current Sociol. Address: Population Studies Center, University of Michigan, 1225 S. University, Ann Arbor, Mich. 48104.

FREEDMAN, DR. SANFORD JULIAN, b. Boston, Mass, June 27, 22; m; c. 2. PSYCHOLOGY. A.B, Harvard, 42; M.S, Simmons Col, 51; fel, Brandeis, 56-59, Ph.D, 60. Asst. psychol, Brandeis, 56-59, res. assoc, 59-65; RES. ASSOC. EXP. PSYCHOL. & DIR. NEUROPSYCHOL. LAB, TUFTS, 62- Res. assoc, Mass. Ment. Health Center, 56-62, dir, neuropsychol. lab, 57-62. Spec. consult, Nat. Inst. Optics, Italy, 61-66; consult, inst. rehab. med, N.Y. Univ. Med. Center, 62- U.S.A, 42-44. Psychol. Asn; Psychonomic Soc. Human spatially-oriented behavior; sensory-motor coordination; feedback and control processes. Publ: Remarks on the relation between perception and motion, In: Desafferentation experimentale et clinique, Georg & Cie, Geneva, 65; ed, Neuropsychology of spatially-oriented behavior & auth, On the mechanisms of perceptual compensation, In: Neuropsychology of spatially-oriented behavior, Dorsey, (in press). Address: Neuropsychology Lab, P.O. Box 56, Tufts Branch, Boston, Mass. 02153.

FREEHILL, PROF. MAURICE F(RANCIS), b. Chicago, Ill, Nov. 29, 15; m. 49; c. 1. EDUCATIONAL PSYCHOLOGY. B.Ed, Alberta, 46; M.A, Stanford, 47, Ed.D.(ed. psychol), 48. Teacher, pub. schs, Alta, 37-41, prin, 41-45; prof. psychol. & dir. res. & psychol. serv, West. Wash. State Col, 48-61; prof. ED. PSYCHOL. & chmn. dept, Hawaii, 61-62; PROF, WASHINGTON (SEATTLE), 62- Human learning and personality integration. Publ: The school psychologist and the mental health needs of children, In: School psychological services, Prentice, 67; Authoritarian bias and evaluation of college experiences, Improving Col. & Univ. Teaching, winter 67; Intellectual giftedness, Ed. Horizons, fall 67. Address: 631 11th Ave. W, Kirkland, Wash. 98033.

FREEMAN, DR. A(LBERT) MYRICK, III, b. Plainfield, N.J, Feb. 6, 36; m. 59; c. 2. ECONOMICS. A.B, Cornell, 57; M.A, Washington (Seattle), 64, Ph.D. (econ), 65. ASST. PROF. ECON, BOWDOIN COL, 65- U.S.N, 57-63, Lt. Econ. Asn. Public investment criteria: non-market decision and allocation processes; resource and international economics. Publ: Adjusted benefit-cost ratios for six recent reclamation projects, J. Farm Econ, 11/66; Income distribution and planning for public investment, Am. Econ. Rev, 6/67; Six federal reclamation projects and the distribution of income, Water Resources Res, 67. Address: Dept. of Economics, Bowdoin College, Brunswick, Maine 04011.

FREEMAN, DR. DONALD McKINLEY, b. Asheville, N.C, Apr. 22, 31; m. 55. POLITICAL SCIENCE. B.A, Wake Forest, 54; M.A, Rhode Island, 55; Ph.D. (polit. sci), North Carolina, Chapel Hill, 63. Instr. polit. sci, Wake Forest, 58; North Carolina, Chapel Hill, 59-62; polit, Hollins Col, 62-63; asst. prof. polit. sci, North Carolina, Charlotte, 63-65; asst. prof. GOVT, ARIZONA, 65-67, ASSOC. PROF, 67-, RES. SPECIALIST, INST. GOVT. RES, 65- Vis. asst. prof, N.C. State, summers 62, 63 & 65; Nat. Center Ed. Polit. fel, Nat. Convention, summer 64. N.C. ed, CBS Congressional Elections, 64; consult. election coverage, WBT-TV, N.C, 64; consult, Data Surveys, Phoenix, Ariz, 66- Polit. Sci. Asn. American political parties, public opinion, and voting behavior, especially related methodology and research techniques and survey research. Publ: Co-auth, Political parties and political behavior, Allyn & Bacon, 66; auth, Interviewing Mexican-Americans, Soc. Sci. Quart, 12/68. Address: Dept. of Government, University of Arizona, Tucson, Ariz. 85721.

FREEMAN, DR. EDITH HENRY, b. Akron, Ohio, Nov. 24, 31; m. 55; c. 2. PSYCHOLOGY. B.A, Valparaiso, 53; M.A, Ohio State, 55; Ph.D.(psychol), Stanford, 62. Res. assoc, Langley Porter Neuropsychiat. Inst, San Francisco, 59-61; RES. PSYCHOLOGIST, DEPT. ALLERGY, KAISER FOUND. HOSP, SAN FRANCISCO, 62-; PSYCHOLOGIST, DEPT. PEDIAT, MT. ZION HOSP, 67- AAAS; Soc. Psychol. Study Social Issues; Psychol. Asn. Relationships between psychological variables and allergic disorders; psychosomatic studies; short-term psychotherapy. Publ: Assessing patient characteristics from psychotherapy interviews, J. Proj. Tech. & Personality Assessment, 64; auth, Psychological variables in allergic disorders: a review, 64 & co-auth, Personality variables and allergic skin reactivity: a cross-validation study, 67, Psychosom. Med. Address: 183 Molino Ave, Mill Valley, Calif. 94941.

FREEMAN, EDWIN R(UTHVEN), b. San Diego, Calif, Aug. 6, 17; m. 51; c. 3. POLITICAL SCIENCE, ECONOMICS. A.B, California, 41; M.A, Georgetown, 48; American Univ, 50; George Washington, 60. Instr. polit. sci, Pa. State, 47-48; SR. INTEL. RES. SPECIALIST, U.S. Dept. State, 48-60; U.S. INFO. AGENCY, 60- U.S.N.R, 42-46, Lt.(jg). Mid. East Inst. History, sociology, politics, economics, propaganda and public opinion of the Middle East and South Asia. Publ: Foreign policies of modern Persia. Address: Office of Policy & Research, U.S. Information Agency, Washington, D.C. 22180.

FREEMAN, PROF. EUGENE, b. New York, N.Y, Feb. 16, 06; m. 30; c. 2. OPTOMETRY, PHILOSOPHY. A.B, California, Los Angeles, 26; O.D, North. Ill. Col. Optom, 34; Ph.D.(philos), Chicago, 37; hon. D.O.S, Chicago Col. Optom, 49. Prof. physiol. optics, North. Ill. Col. Optom, 33-44; asst. prof. philos, Ill. Inst. Tech, 47-53; v.pres. & dean, Chicago Col. Optom, 49-56; ed-in-chief, Open Court Pub. Co, Ill, 56-65; assoc. prof. PHILOS, SAN JOSE STATE COL, 65-67, PROF, 67- Practicing optometrist, 34-56. Ed, scholarly books div, Open Court Pub. Co, 56-; The Monist, 56- Optom. Asn; Philos. Asn; Acad. Optom; Metaphys. Soc. Am. Design and clinical application of contact lenses and optical aids for the partially blind; professional ethics; history of philosophy. Publ: Co-ed, The wisdom and ideas of Plato; The wisdom and ideas of St. Thomas Aquinas; auth, Optometric rehabilitation of the partially blind: a report of 175 cases, J. Am. Acad. Optom. Address: Dept. of Philosophy, San Jose State College, San Jose, Calif. 95114.

FREEMAN, DR. FRANK E, Clin. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

FREEMAN, PROF. FRANK S(AMUEL), b. St. Louis, Mo, Oct. 11, 98; m. 28. PSYCHOLOGY. B.S, Harvard, 20, Ed.M, 24, Ed.D, 26. Psychologist & dir. ed, State Infirmary, Tewksbury, Mass, 21-23; instr. ed, CORNELL, 25-28, asst. prof, 28-35, prof. psychol. & ed, 35-40, PSYCHOL, 40-65, EMER. PROF, 65- Vis. prof, Hawaii, 63-64; summers, vis. prof, Denver, 48; Southern California, 49. Consult. psychologist, 26-; ed. consult, U.S. Navy, 42. Chmn, N.Y. State Bd. Exam. Psychologists, 56-60, mem, 60-62. U.S.N, 18-19. Psychol. Asn. Differential, developmental and clinical psychology; psychological tests. Publ: Development and learning; Individual differences; Theory and practice of psychological testing, Holt, 50, 2nd ed, 55, 3d ed, 62. Address: 1414 N. Lake Shore Dr, Sarasota, Fla. 33579.

FREEMAN, DR. G(RAYDON) L(a VERNE), b. La Grange, Ohio, Aug. 30, 04; m. 29; c. 3. PSYCHOLOGY. B.S, Syracuse, 25; A.M, Cornell, 26, Ph.D. (psychol), 29. Lectr. psychol, Cornell & Edminster Sch, 28-29; Nat. Res. Coun. fel, inst. human rels, Yale, 29-31; instr. psychol, Northwestern, 31-34, asst. prof, 34-38, assoc. prof, 38-44, prof, 44-46, pres, Century Publishers, 46-54; EXEC. DIR, AM. LIFE FOUND, 54- Sage fel, 29; Soc. Sci. Res. Coun. fel, 35; Rockefeller res. grant, 37; Guggenheim fel, 46-47; vis. prof, New Sch. Soc. Res, 47; Cornell, 50; Ford Found. grant, 55; Nat. Inst. Ment. Health grant, 56; Am. Life Found-Sage grant, Cambridge, 62. Mem, White House Conf. Aging; Senate Invest. Testing Practices. Private counseling, execs. U.S.N.R, 42-46, Comdr. Psychol. Asn. Retirement planning; muscular tension and mental work; educational publishing and research. Publ: Physiological psychology, Van Nostrand, 58; Energetics of homeostatic behavior, W. Glen, 68; The psychology of aging, Am. Life Found. & Study Inst, 68. Address: American Life Foundation & Study Institute, Irelandville Rd, Watkins Glen, N.Y. 14891.

FREEMAN, PROF. HAROLD A(DOLPH), b. Wilkes-Barre, Pa, July 12, 09; m. 35; c. 2. STATISTICS. B.S, Mass. Inst. Tech, 31; Harvard, 36-38; Guggenheim Mem. fel, Princeton, 52-53; Nat. Sci. Found. fel, North Carolina, 60-61. Asst. STATIST, MASS. INST. TECH, 33-35, instr, 35-39, asst. prof, 39-44, assoc. prof, 44-50, PROF, 50- Consult, Nat. Defense Res. Cmt, 43-45; U.S. War Dept, 43-45. Fel. Statist. Asn.(v.pres, 48-50); fel. Soc. Qual. Control; Inst. Math. Statist; fel. Am. Acad. Arts & Sci. Statistical methods. Publ: Co-auth, Introduction to sequential experimentation, Dept. Army, 61; auth, Industrial statistics; Introduction to statistical inference. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

FREEMAN, PROF. HOWARD E(DGAR), b. New York, N.Y, May 28, 29; m. 52. SOCIOLOGY. B.A, N.Y. Univ, 48, M.A, 50, Ph.D.(sociol), 55. Asst. soc. scientist, Rand Corp, 55-56; res. assoc. sociol, Harvard, 56-61; assoc. prof. SOC. RES, HELLER GRAD. SCH, BRANDEIS, 59-61, PROF, 61- Sociologist, Russell Sage Found, 67- Consult. in res, Off. Econ. Opportunity, 64-; consult. & mem. career award cmt, Nat. Inst. Health, 66- Hofheimer prize, Am. Psychiat. Asn, 63. U.S.A.F, 51-53, Lt. Sociol. Asn; Soc. Study Social Probs; Statist. Asn; Asn. Pub. Opinion Res; Mkt. Asn; Psychol. Asn. Social psychology; medical sociology; applied research. Publ: Co-auth, The mental patient comes home, Wiley, 63; Handbook of medical sociology, Prentice-Hall, 63; The clinic habit, Col. & Univ, 67. Address: Heller Graduate School, Brandeis University, Waltham, Mass. 02154.

FREEMAN, DR. JAMES T(HOMAS), b. U.S. June 22, 25; m. 47. PSYCHOLOGY. Ph.D.(psychol), Northwestern, 53. Instr. psychol, Illinois, 53; from asst. prof. to assoc. prof, Iowa State, 53-59; opers. analyst, hqs, Strategic Air Command, 59-62; supvr. human factors & training serv, Honeywell, Inc, 62-64; res. scientist, N.Am. Rockwell Corp, 64-67; PROF. PSYCHOL. & DIR. INSTNL. STUDIES, CALIF. STATE COL. SAN BERNARDINO, 67- Consult, Off. Opers. Anal, U.S. Dept. Air Force, 53. U.S.A.A.F, 45, Sgt. Psychol. Asn. Experimental psychology; learning and perception; programmed learning. Publ: Set or perceptual defense? & Perceptual behavior as related to factors of drive and associative strength, J. Exp. Psychol; Behavioral Systems, Psychol. Reports, 66. Address: 1305 Andreas, San Bernardino, Calif. 92404.

FREEMAN, JO FISHER, b. Nashville, Tenn, May 31, 02; m. 49; c. 1. ECONOMICS. A.B, Arizona, 20; A.M, Harvard, 27. Mem. staff, Nat. City Bank N.Y, Harbin, 27-33; adv, Cent. Bank China, Shanghai & Chungking, 34-41; mem. staff, U.S. Mil. Govt, Germany, 46-49; Nat. Prod. Authority, Wash, D.C, 51-52; consult, opers. res. off, Hopkins, 54-55; chief finance div, U.S. Opers. Mission Vietnam, 56-58; banking consult, Int. Coop. Admin, 61; banking adv, Nepal Indust. Develop. Bank, Kathmandu, 63-66; grad. student, dept. Econ, Arizona, 66- AAAS; Am. Econ. Soc; Royal Econ. Soc. Money; money-flow analysis; soviet production statistics; interest theory; profit theory. Publ: Liquidity preference versus loanable funds: a new approach to the problem, Econ. J, 12/63. Address: 1721 E. Ninth St, Tucson, Ariz. 85719.

FREEMAN, DR. JOAN E, b. Madison, Wis, Apr. 3, 31. ARCHEOLOGY, MUSEOLOGY. B.A, Lawrence Col, 53; M.A, Wisconsin, 57, Ph.D.(anthrop), 59. Proj. asst. ANTHROP, Wisconsin, 59-60; CURATOR, MUS, STATE HIST. SOC. WIS, 60- Nat. Sci. Found. grant, Wisconsin, 62-63. Soc. Am. Archeol; fel. Anthrop. Asn. Archeology and ethnology of Wisconsin and the midwestern United States. Publ: Co-auth, D1-47, a bluff shelter in northeastern Oklahoma, 9: 67-75 & auth, The Neosho Focus, a late prehistoric culture in northeastern Oklahoma, 10: 1-25, Bull. Okla. Anthrop. Soc; Price Site III, Ri4, a burial ground in Richland County, Wisconsin, Wis. Archaeologist, Vol. 47, No. 2. Address: State Historical Society of Wisconsin, 816 State St, Madison, Wis. 53706.

FREEMAN, PROF. J(OHN) LEIPER, b. Murfreesboro, Tenn, Aug. 30, 22; m. 43; c. 5. POLITICAL SCIENCE. A.B, Princeton, 43, M.A, 49, Ph.D. (polit), 52. Acting asst. prof. polit. sci, Mississippi, 46-47; asst. instr. polit, Princeton, 47-49, instr, 51-52; polit. sci, George Washington, 49-50; asst. prof. ed. admin, grad. sch. ed, Harvard, 52-55; polit. sci, Vanderbilt, 55-57, assoc. prof, 57-61; prof, Allegheny Col, 61-64; PROF. POLIT. SCI. & DIR. POLIT. STUDY CENTER, VANDERBILT, 64- Vis. prof, American Univ. Beirut, 59-60. U.S.M.C.R, 43-46, Res, 46-58, Capt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Voting behavior and the political process; comparative political development. Publ: Political process: executive bureau-legislative committee relations; Local party systems: theoretical considerations and a case analysis; Bureaucracy in pressure politics. Address: Dept. of Political Science, Vanderbilt University, Nashville, Tenn. 37203.

FREEMAN, JOSEPH H, b. New York, N.Y, Aug. 21, 14; m. 41; c. 2. ECONOMICS, STATISTICS. B.A, Clark, 36, M.A, 37; American Univ, 46-56. From asst. regional dir. to regional dir. bldg. permits surv, Bur. Labor Statist, U.S. Dept. Labor, 38-41; indust. economist, War Prod. Bd, Civilian Prod. Agency, 41-46; Nat. Housing Agency, 46-47; chief city data sect, Housing & Home Finance Agency, 47-48; customer rels. dir, Hecht Co, 48-57; chief consumer price indexes sect, bur. labor statist, U.S. Dept. of Labor, 57-59; export statist. br, FOR. TRADE DIV, BUR. CENSUS, U.S. DEPT. COMMERCE, 60-62, opers. & anal, 62-63, ASST. CHIEF, 63- Lectr, American Univ, 57-; consult, 50-53. U.S.A.A.F, 43-46. Statist. Asn; Econ. Asn. Foreign trade statistics; impact of foreign trade on domestic economy; consumer prices; wholesale or primary market prices; index methodology; general field of marketing. Publ: Residential rents in 1956, Monthly Construct. Rev; Recurring dwelling unit surveys for the consumer price index, Monthly Labor Rev; Consumer prices in the United States 1953-58: price trends and indexes, Bur. Labor Statist. Bull. Address: 11500 Lockhart Place, Silver Spring, Md. 20902.

FREEMAN, DR. LESLIE GORDON, JR, b. Warsaw, N.Y, Sept. 9, 35; m. 64. PREHISTORY, ANTHROPOLOGY. A.B, Chicago, 54, M.A, 61, Ph.D.(anthrop), 64. ASST. PROF. ANTHROP, Tulane, 64-65; CHICAGO, 65- Summer res. assoc, Chicago, 64. U.S.A, 57-59, Sgt. Fel. Anthrop. Asn; French Prehist. Soc. Old world prehistory, especially Spanish Mousterian and Acheulean. Address: Dept. of Anthropology, University of Chicago, Chicago, Ill. 60637.

FREEMAN, L(eVERN) D(ORAINE), b. Boone, Iowa, Sept. 16, 31; m. 52; c. 2. BUSINESS ADMINISTRATION. B.S, California, Los Angeles, 53. Res. chemist, Whittier Res. Lab, AM. POTASH & CHEM. CORP, 53-59, mkt. analyst, 59-65, mgr. mkt. res, 65-67, PROD. MGR. ELECTROCHEM. 67- Chem. Soc. Market research. Address: American Potash & Chemical Corp, 3000 W. Sixth St, Los Angeles, Calif. 90054.

FREEMAN, PROF. LINTON C, b. Chicago, Ill, July 4, 27; m. 58; c. 2. SOCIOLOGY. B.A, Roosevelt, 52; M.A, Hawaii, 53; Ph.D.(sociol), Northwestern, 56. Teaching asst. SOCIOL, Northwestern, 53-55; asst. prof, Syracuse, 56-61, assoc. prof, 61-67; PROF, PITTSBURGH, 67- Vis. asst. prof, Northwestern, 58-59. U.S.N, 44-46. AAAS; Sociol. Asn; Statist. Asn. Mathematical sociology; methodology. Publ: An introduction to applied statistics, Wiley, 65; Patterns of local community leadership, Bobbs, 67. Address: Dept. of Sociology, University of Pittsburgh, Pittsburgh, Pa. 15213.

FREEMAN, DR. PAUL M(ILLARD), b. Milton, Mass, Apr. 18, 09; m. 37; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Dartmouth Col, 30; M.A, Columbia, 41, Ed.D, 53. Asst. tests & measurements, grad. record exam, Columbia, 42-47; ed. specialist eval, Air Univ, 47-50, chief test construct. br, exten. course inst, 51-52; officer res. proj, Human Resources Res. Inst, 50-51; head spec. tests sect. & proj. dir, test develop. div, ed. testing serv, 52-59, asst. dir. curriculum studies, 60-62; RETIRED. Consult, Army Ord. Sch, 55; State Civil Serv. Exam, N.J, 55-56; State Bd. Registration & Exam. in Dent, 56; Army Med. Serv. Sch, 58. U.S.A.A.F, 44-45. Achievement tests; civil service selection; armed forces testing; curriculum research. Publ: Correspondence course evaluation; Correction for guessing; Coast Guard promotion examinations. Address: 268 Mt. Lucas Rd, Princeton, N.J. 08540.

FREEMAN, PROF. RALPH E(VANS), Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

FREEMAN, DR. ROBERT B(URNS), JR, b. New York, N.Y, Nov. 19, 28; m. 56; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Amherst Col, 50; M.A, California, Berkeley, 59, U.S. Pub. Health Serv. & Woodrow Wilson fels. & Ph.D. (psychol), 62. U.S. Pub. Health Serv. fel. PSYCHOL, Maryland, 61-62; PA. STATE, 62-63, ASST. PROF, 63- U.S.A.R, 53-55, Sgt. AAAS; Acad. Optom; Psychol. Asn; Optical Soc; Psychonomic Soc. Monocular cues in visual space perception; animal psychophysics; perceptual learning; pattern and form perception; contrast mechanisms of the eye. Publ: Function of cues in the perceptual learning of visual slant, Psychol. Monogr, 66; Absolute threshold for visual slant: effect of stimulus size and retinal perspective, J. Exp. Psychol, 2/66; co-auth, Visual size constancy in cats following dimensional discrimination training, J. Comp. & Physiol. Psychol,

10/67. Address: Dept. of Psychology, 309B Burrowes Bldg, Pennsylvania State University, University Park, Pa. 16802.

FREESTONE, PROF. NORMAN W, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

FREGLY, DR. ALFRED R, b. Patton, Pa, May 4, 28; m. 56; c. 5. CLINICAL & EXPERIMENTAL PSYCHOLOGY. B.S, Kent State, 50, M.A, 51; Ph.D, Houston, 57. Res. psychologist, U.S. Naval Personnel & Res. Field Activity, Calif, 52-53; psychometrist, Univ. Houston, 53-54; intern clin. psychol, med. center, Iowa, 54-55; res, med. br, Texas, 55-57; clin. psychologist, Escambia Child Guid. Clin, Fla, 57-60; RES. PSYCHOLOGIST, U.S. NAVAL AEROSPACE MED. INST, PENSACOLA, 61- Instr, Pensacola Jr. Col, 58-61; private practice, 60-61. Consult, Pensacola Alcoholic Rehab. Clin, 58-61. U.S.N, 45-46. AAAS; Aerospace Med. Asn; Psychol. Asn. Neuropsychological and physiological correlates with behavior; vestibular physiology. Publ: Animals and man in space on balloons and rockets: a chronology and annotated bibliography through 1960; Neurological sequelae of experimental anoxia in newborn dogs; co-auth, A new quantitative ataxia test battery, Acta Otolaryngol, 66. Address: 125 Fairpoint Dr, Gulf Breeze, Fla. 32561.

FREIBAND, DR. WARREN, b. New York, N.Y, May 12, 19; m. 50; c. 3. CLINICAL PSYCHOLOGY. A.B, Hofstra Col, 48; A.M, Harvard, 53; Ph.D.(psychol), Loyola (Ill), 57. Chief psychologist, Inst. Juvenile Res, Ill, 55-57; asst. prof. psychol, sch. med, Buffalo, 57-59; coordinator training in psychol, Vet. Admin. Hosp, Iowa City, Iowa, 59-61, chief psychol. serv, Vet. Admin. Center, Fargo, N.Dak, 61-65; consult. in psychol. & ment. health, Bd. of Control, State of Iowa, 65-67; PROG. DIR. MENT. HEALTH, WEST. MENT. HEALTH CENTER, 67- Dir. psychol. serv, Children's Hosp, Buffalo, N.Y, 57-59. Consult, Family Serv. Asn, Aurora, Ill, 55-57; Jamestown State Hosp, N.Dak, 62-65; Voc. Rehab. Center, Fargo, 62-65; Southwest State Col, 67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 64. U.S.N, 43-45, Med. Serv, 50-51. Psychol. Asn. Community mental health. Address: Western Mental Health Center, Marshall, Minn. 56258.

FREIBERG, DR. ALBERT D(ANIEL), b. Stanton, Nebr, Feb. 9, 04; m. 37; c. 2. PSYCHOLOGY. A.B, N.Cent. Col, 26; fel, Cornell, 34-35, Ph.D. (psychol), 36. Instr. psychol, Mich. State Col, 29-33; mem. staff, Psychol. Corp, 35-52, secy, 40-44, 44-52, v.pres, 44-47, dir, 46-58, 1st v.pres, 47-58; PRES, PRFNL. RES. ASSOCS, INC, 58- Lectr, Columbia, 40-48. AAAS; Psychol. Asn; Mkt. Asn; Asn. Pub. Opinion Res; Pub. Rels. Soc. Am; Statist. Asn. Marketing and social research; advertising; consumer, product and community surveys. Address: Professional Research Associates, Inc, P.O. Box 291, Greenwich, Conn. 06830.

FREIBERGER, PROF. WALTER F(REDERICK), Appl. Math, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

FREIBERGS, DR. VAIRA, b. Riga, Latvia, Dec. 1, 37; Can. citizen; m. 60; c. 2. PSYCHOLOGY. B.A, Toronto, 58, M.A, 60; Ph.D.(psychol), McGill, 65. Clin. psychologist, Toronto Psychiat. Hosp, 60-61; ASST. PROF, PSYCHOL, MONTREAL, 65- Am. Psychol. Asn; Can. Psychol. Asn. Cognitive processes; psycho-linguistics; developmental psychology; psychopharmacology. Publ: Co-auth, Effect of practice on use of positive and negative instances in concept identification, Can. J. Psychol, 61 & Effects of chlorpromazine on concept learning in hyperactive children, Psychopharmacologia, 68; auth, Concept learning in hyperactive and normal children, J. Abnorm. Psychol.(in press). Address: Institute of Psychology, University of Montreal, Montreal, Que, Can.

FREIDES, DR. DAVID, b. Chicago, Ill, July 21, 29; m. 51. PSYCHOLOGY. B.A, Illinois, 49; M.A, Columbia, 51; Strathcona fel, Yale, 52-53, Ph.D.(psychol), 56. Instr. PSYCHOL, U.S. Army Med. Serv. Sch, 55-58; asst. prof, Wayne State & psychologist, Lafayette Clin, 58-66; ASSOC. PROF, EMORY, 66- Consult, Proj. Upward Bound, Emory, 66- U.S.A.R, 54-62, 1st Lt. Intellectual and emotional development in children; psychopathology and its etiology; psychological diagnostic testing. Address: Dept. of Psychology, Emory University, Atlanta, Ga. 30322.

FREIDSON, PROF. ELIOT L, b. Boston, Mass, Feb. 20, 23; m. 50; c. 2. SOCIOLOGY. Ph.B, Chicago, 47, M.A, 50, Ph.D, 52. Asst. philos, Michigan, 51-52; res. fel. sociol, Illinois, 52-54; proj. dir, U.S. Nat. Student Asn, 54-55; lectr. SOCIOL, City Col. New York, 55-56, asst. prof, 56-60, assoc. prof, 60-61; N.Y. UNIV, 61-63, PROF, 63- Russell Sage Found. res. fel, 55-56. Ed, J. Health & Soc. Behav, 66-69. Mem. health serv. res. study sect, div. res. grants, Nat. Insts. Health, 63-66; adv. panel, coop. res. grant prog, Soc. Security Admin, 67- U.S.A, 43-46. Fel. Sociol. Asn; Anthrop. Asn; Soc. Study Social Probs; Int. Sociol. Asn. Sociology of occupations and professions; sociology of medicine. Publ: Student government, student leaders and the American college; Patients' views of medical practice; Hospital in modern society, Macmillan, 63. Address: Dept. of Sociology, New York University, New York, N.Y. 10003.

FREILICH, PROF. MORRIS, b. Warsaw, Poland, July 26, 28; nat; m. 53; c. 1. CULTURAL ANTHROPOLOGY. B.A, Brooklyn Col, 52, fel, res. inst, 57; Soc. Sci. Res. Coun. fel, Columbia, 57-58, Ph.D, 60. Instr. anthrop, Akron, 59-61; asst. prof, Northern Illinois, 61-63; ASSOC. PROF. SOCIOL. & ANTHROP. Washington, 63-66; NORTHEASTERN, 66- Nat. Inst. Ment. Health grants, 60-61. Assoc, Current Anthrop. U.S.A, 53-55. Anthrop. Asn. Iroquois; Caribbean; cultural processes in multicultural societies; cultural ecology; research methods. Publ: Toward a model of social structure, J. Royal Anthrop. Inst, 64; Natural triad in kinship and complex systems, Am. Soc. Rev, 64. Address: Dept. of Sociology & Anthropology, Northeastern University, Boston, Mass. 02115.

FREIMER, DR. MARSHALL LEONARD, Math, see 11th ed, Phys. & Biol. Vols.

FREITAG, DR. MELVIN, b. New York, N.Y, Feb. 8, 24; m. 50; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Brooklyn Col, 48; M.A, Missouri, 51; Ph.D, Virginia, 56. Asst. psychol, Missouri, 49-50; psychologist, U.S. Naval Res. Lab, 51-52; asst, psychol. lab, Virginia, 52-55; res. assoc. human factors, Am. Inst. Res, 55; sr. reliability engr, Convair Astronaut. Div, Gen. Dynamics Corp, 55-60; group engr, electronics div, Ryan Aeronaut. Co, 60-63; design specialist, Gen. Dynamics/Convair, 63-65; principal investr. human factors, Cushing & Neville, 65-66; SR. SCIENTIST, JAKUS ASSOCS, 66-Human eng. consult, various industs, 64- U.S.A.A.F, 43-45, Sgt. Human Factors Soc. Psychology of learning and motivation; human factors and engineering; engineering psychology; quantification of equipment operability; human factors in maintainability. Publ: Quantification of equipment operability. I Review of the literature and recommendations, 6/66, co-auth, A Bayesian model for troubleshooting electronic equipment, 11/66 & auth, Throughput analysis: a method of evaluating the operability of operator stations, Tech. Memo 1220, U.S. Navy Electronics Lab. Address: 1910 Shire Dr, El Cajon, Calif. 92020.

FREITAG, PROF. O(TTO) F(RIEDRICH), b. Nicollet, Minn, June 21, 14. POLITICAL SCIENCE. A.B, Denver, 39, A.M, 40; Ph.D, Iowa, 42. Asst. prof, Denver, 46-48, assoc. prof. POLIT. SCI, CALIF. STATE COL. HAYWARD, 48-60, PROF, 60-, CHMN. DEPT, 48- Consult, Mutual Security Admin, 51-52, 55, 58; Govt. Affairs Inst, 50-54. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Value judgments in political theory. Address: Dept. of Political Science, California State College at Hayward, 25800 Hillary St, Hayward, Calif. 94542.

FREITHALER, DR. WILLIAM O, b. Huntington, N.Y, Aug. 14, 36; m. 60; c. 1. ECONOMICS. B.A, Texas, 61; M.A, Michigan, 62, Ph.D.(econ), 66. Economist, Rand Corp, 66-67; ASST. PROF. ECON, VIRGINIA, 67- Consult, Rand Corp, Calif, 67- U.S.N, 54-57. Econ. Asn. Economic problems of underdeveloped countries and of Latin America; economic history; systems analyses of government operations. Publ: Mexico's foreign trade and economic development, Praeger, 67. Address: Dept. of Economics, University of Virginia, Charlottesville, Va. 22903.

FREMGEN, DR. JAMES MORGAN, b. Chicago, Ill, Dec. 5, 33; m. 56; c. 2. ACCOUNTING. B.S.C, Notre Dame, 54; M.B.A, Indiana, 55, D.B.A, 61. Faculty lectr. ACCT, Indiana, 59-61, asst. prof, Notre Dame, 61-64. ASSOC. PROF, 64-65; NAVAL POSTGRAD. SCH, 65- Vis. prof, Hawaii, 67-; vis. prof, Northeastern, summer, 67. U.S.C.G, 55-58, Lt. Am. Acct. Asn; Nat. Asn. Acct. Inventory accounting; public financial reporting standards; auditing electronic data processing systems. Publ: Managerial cost analysis, Irwin, 66; Involuntary liquidation of Lifo inventories, J. Accountancy, 12 '62; Utility and accounting principles, Acct. Rev, 7/67. Address: Dept. of Business Administration & Economics, Naval Postgraduate School, Monterey, Calif. 93940.

FREMLIN, G, Can. citizen. GEOGRAPHY. B.A, Western Ontario, 50, M.A, 58; Wisconsin, 60-62. From geogr. to SR. SCI. OFFICER, GEOG. BR, DEPT. ENERGY, MINES & RESOURCES, 55- Can. Coun. scholar, 60-61. R.C.A.F, 42-45. Can. Asn. Geog. Cartographical design. Address: Surveys & Mapping Branch, Dept. of Energy, Mines & Resources, 615 Booth St, Ottawa, Ont, Can.

FREMONT-SMITH, DR. FRANK, Medicine, see 11th ed, Phys. & Biol. Vols.

FRENCH, DR. ANNE C(OUCH), Clin. Psychol, see 10th ed, Soc. & Behav. Vols, deceased.

FRENCH, PROF. B(ENJAMIN) C(ARVER), b. Hanford, Calif, May 30, 23; m. 47; c. 3. AGRICULTURAL ECONOMICS. B.S, California, 48, M.S, 49, Ph.D.(agr. econ), 54. Coop. agent agr. econ, California & bur. agr. econ, U.S. Dept. Agr, 49-53; asst. prof. AGR. ECON, Mich. State, 53-56, assoc. prof, 56-59; CALIFORNIA, DAVIS, 59-62, PROF, 62- U.S.A, 43-46. Econ. Asn; Economet. Soc; Agr. Econ. Asn.(award, 54, 56, v.pres, 65-66). Agricultural marketing; cost and efficiency; price analysis. Publ: Co-auth, Efficiency in plant operations with special reference to the marketing of California pears, Hilgardia; auth, Some considerations in estimating assembly cost functions for agricultural processing, 11/60 & The food marketing commission and marketing efficiency, 5/67, J. Farm Econ. Address: Dept. of Agricultural Economics, University of California, Davis, Calif. 95616.

FRENCH, PROF. BRUCE H(ARTUNG), b. Canton, Ohio, May 2, 15; m. 42; c. 2. ECONOMICS. A.B, Haverford Col, 37; A.M, Pennsylvania, 40, Ph.D, 46; Princeton, 41-42; LL.B, Rutgers, 45. Instr. polit, Princeton, 41-42, 46-47; asst. prof. ECON, UNIV. COL. RUTGERS, 47-53, ASSOC. PROF, 53-, CHMN. DEPT, 51- Practicing attorney, N.J; counsel & exec. dir, Housing Authority Borough. U.S.N.R, 42-46, Lt. Comdr. Econ. Asn. American economic history; community planning; money and banking. Publ: Federal government professional personnel movements, a study of college graduates; Banking and insurance in New Jersey: a history. Address: 10 Cleveland Lane, Princeton, N.J. 08540.

FRENCH, PROF. CECIL L(YNN), b. Elvins, Mo, Mar. 29, 25; m. 52. SOCIOLOGY, ANTHROPOLOGY. A.B, Washington (St. Louis), 51, A.M, 53, Ph.D, 58. Asst. prof. & head dept. SOCIOL, Drury Col, 57-60; asst. prof, Alberta, 60-62; assoc. prof, Saskatchewan, 62-65; Stanislaus State Col, 65-67; PROF, MONTANA, 67- Sig.C, U.S.A, 43-46. Fel. Anthrop. Asn; fel. Sociol. Asn; Soc. Appl. Anthrop. Industrial sociology; Indians and metis of Alberta. Publ: Co-auth, The metis in Alberta society, Univ. Alberta, 63 & A northern dilemma, West. Wash. State Col, 68; Some structural aspects of a sales group, In: Human organization. Address: Dept. of Sociology, University of Montana, Missoula, Mont. 59801.

FRENCH, PROF. CHARLES E(ZRA), b. Smithville, Mo, Apr. 7, 23; m. 47; c. 3. AGRICULTURAL ECONOMICS. B.S, Missouri, 48, A.M, 49; Ph.D. (agr. econ), Purdue, 51. Asst. prof. AGR. ECON, PURDUE, 51-55; assoc. prof, 55-58, PROF, 58-, HEAD DEPT, 66-, asst. head, 59-66. Consult. Mem. spec. cmt, U.S. Secy. Agr; agr. bd, Nat. Res. Coun. U.S.A.A.F, 43-46, Capt. Am. Agr. Econ. Asn; Can. Agr. Econ. Soc; Int. Asn. Agr. Econ. Publ: Use of digital computers in agriculture, Voice of Am. Forum Lectures Agr. Series 18, 63; Managerial factor and research on decision making in agricultural marketing firms, In: Marketing and economic development, Univ.

Nebraska, 67; Manpower requirements for a mechanized agriculture, Proc. Cornell Conf. on Impact of Mechanization, Automation & Cybernation on Mod. Agr, 12/67. Address: Dept. of Agricultural Economics, Purdue University, Lafayette, Ind. 47906.

FRENCH, PROF. DAVID G(ARFIELD), b. Toledo, Ohio, Aug. 3, 14; m. 37; c. 4. SOCIOLOGY. A.B, Michigan, 35, Ph.D, 60; B.S, Chicago Theol. Sem, 38; M.S, Columbia, 43. Res. consult, State Dept. Soc. Welfare, Mich, 43-45; asst. prof. soc. work, Indiana, 45-46; asst. exec. secy, Am. Asn. Soc. Workers, 46-52; lectr, sch. soc. work, Michigan, 52-58, exec. secy. coord. cmt. soc. welfare res, soc. sci. div, 55-58; PROF. SOC. WELFARE, BRANDEIS, 59- UN Soc. Welfare Training Adv. to Govt. Pakistan, col. soc. welfare, Dacca Univ, 64-65. Sociol. Asn; Asn. Social Workers. Integration of social science theory and method in social work; sociology of professions; child welfare; philanthropy; international technical assistance in social welfare. Publ: An approach to measuring results in social work; ed, Planning responsibilities of state departments of public welfare, Am. Pub. Welfare Asn, 67. Address: Job's Creek Rd, Sunapee, N.H. 03782.

FRENCH, PROF. DAVID (HEATH), b. Bend, Ore, May 21, 18; m. 43. SOCIAL ANTHROPOLOGY. B.A, Pomona Col, 39; M.A, Claremont Col; 40; scholar, Columbia, 43, Ph.D.(anthrop), 49. Asst. anthrop, Pomona Col, 38-40; jr. prfnl. asst, Indian Serv, United Pueblos Agency, 41-42, jr. admin. technician, 42; community analyst, Colo. River Relocation Center, War Relocation Authority, 43-46; asst. prof. ANTHROP, REED COL, 47-53, assoc. prof, 53-59, PROF, 59- Asst. curator anthrop, Claremont Col. Mus, 38-40; vis. assoc. prof, Columbia, 54-55; vis. prof, Washington, 59; Harvard, 60, res. fel, 61. Consult, Warm Springs res. proj, Ore. State Col, 60. Fel. Anthrop. Asn. American Indians; Japanese Americans; socio-cultural change; ethnobotany; ecology; social organization; mythology; language and culture; perception and cognition in relation to anthropology. Publ: Factionalism in Isleta Pueblo; Concept of culture-bondage; Waso-Wishram. Address: Dept. of Anthropology, Reed College, Portland, Ore. 97202.

FRENCH, DR. EDWARD L(IVINGSTONE), b. Scunthorpe, Eng, Dec. 15, 16; nat; m. 42; c. 3. PSYCHOLOGY. A.B, Ursinus Col, 38; M.A, Pennsylvania, 47, Ph.D.(psychol), 50. Teacher, Chestnut Hill Acad, 38-43; chief psychologist, Vineland Training Sch, N.J, 49-50; dir. psychol. & ed, Devereux Schs, 50-57, DIR. DEVEREUX FOUND, 57-, PRES, 60- Pres, Clin. Biochem. & Behav. Res. Inst, 64- U.S.A, 43-46. Fel. AAAS; fel. Psychol. Asn; fel. Soc. Res. Child Develop; fel. Asn. Ment. Deficiency. Child development; learning problems; clinical psychology. Publ: Co-auth, How you can help your retarded child, Lippincott, 67; auth, Psychological factors in cases of reading difficulties, In: The exceptional child. Address: Devereux Foundation, Devon, Pa. 19333.

FRENCH, DR. ELIZABETH G(ODBEER), b. Fitchburg, Mass, Apr. 25, 16; m. 41; c. 2. PSYCHOLOGY. A.B, Mt. Holyoke Col, 38; M.A, Yale, 40, Ph.D, 42. Asst. proj. dir, Off. Naval Res. contract, Northwestern, 46-51; res. psychologist, personnel res. lab, Air Force Personnel Training Res. Center, 51-58; res. assoc. psychol, Hunter Col, 58-62; res. assoc, Northwestern, 62-65. Psychol. Asn. Personality and social psychology. Publ: Development of a measure of complex motivation; Some characteristics of achievement motivation, J. Exp. Psychol; co-auth, Some characteristics of the achievement motive in women, J. Abnorm. & Soc. Psychol, 64. Address: Rockholm Rd, Annisquam, Mass. 01930.

FRENCH, DR. GILBERT M(ORSE), Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

FRENCH, DR. JACQUELINE, b. Bronxville, N.Y, June 6, 28. CLINICAL PSYCHOLOGY. B.A, Col. New Rochelle, 50; M.A, Columbia, 60, Ph.D.(psychol), 64. Library asst. advertising, McCann-Erickson, Inc, 50-58; intern clin. psychol, Larue D. Carter Mem. Hosp, 60-61; instr. PSYCHIAT, MED. CENTER, INDIANA, 62-66, ASST. PROF, 66-, SR. STAFF PSYCHOLOGIST, RILEY CHILD GUID. CLIN, 64-, staff psychologist, 62-64. Consult, Marion County Gen. Hosp, 64-66; Lebanon Community Schs, 66- Psychol. Asn; Orthopsychiat. Asn. Dependency behavior and feelings of rejection in aggressive and non-aggressive boys; educational programs for the emotionally disturbed student. Address: Indiana University Medical Center, 1100 W. Michigan St, Indianapolis, Ind. 46202.

FRENCH, DR. JOHN R(OBERT) P(UTNAM), JR, b. Boston, Mass, Aug. 7, 13; m. 37; c. 2. PSYCHOLOGY. Cert, Black Mountain Col, 37; M.A, Harvard, 39, Ph.D.(psychol), 40. Asst. psychol, Harvard, 37-40; instr, Black Mountain Col, 40-42; res. assoc, child welfare res. sta, Iowa, 42-43; dir. res. & labor rels, Harwood Mfg. Corp, Va, 43-45; v.pres. in charge training, Nejelski & Co, Inc, N.Y, 45-47; proj. dir, RES. CENTER GROUP DYMANICS, Mass. Inst. Tech, 47-48; PROG. DIR, MICHIGAN, 48-, PROF.PSYCHOL, 54-, assoc. prof, 48-54. Fulbright fel, Norway, 55-56, 64-65. Psychol. Asn. Group dynamics; social and industrial psychology; effects of the social environment on mental and physical health. Address: Institute for Social Research, University of Michigan, Ann Arbor, Mich. 48106.

FRENCH, PROF. JOHN W(INSLOW), b. New York, N.Y, Apr. 27, 18; m. 40; c. 2. PSYCHOLOGY. A.B, Princeton, 39, Ph.D.(psychol), 42. Asst. psychol, Princeton, 40-42, instr, 42-43, physics, 43-44, res. assoc. fire control res, 44; test construct, Dept. Col. Board, 44-45; res. assoc, Col. Bd. & Ed. Testing Serv, 46-53; chief anal. br, res. div, off. armed forces info. & ed, U.S. Dept. Defense, 53-54; res. assoc, Ed. Testing Serv, 54-57, chmn. ed. res. group, 57-64; PROF. PSYCHOL. & COL. EXAM, NEW COL, 64- Mem, Nat. Inst. Ment. Health Small Grants Cmt, 66- U.S.N.R, 45-46. Fel. AAAS; fel. Psychol. Asn; Psychomet. Soc.(treas, 60-); Soc. Multivariate & Exp. Psychol.(past pres, 62-65). Description of aptitude and achievement tests in terms of rotated factors; kit of selected reference aptitude and achievement tests; educational research connected with an innovative college. Publ: Co-auth, Standards for educational and psychological tests and manuals, Am. Psychol. Asn, 66. Address: Dept. of Psychology, New College, Sarasota, Fla. 33578.

FRENCH, PROF. JOSEPH L(eROY), b. Ft. Worth, Tex, Mar. 6, 28; m. 50; c. 4. PSYCHOLOGY, EDUCATION. B.S, Illinois State, 49, M.S, 50; Ed.D. (ed. psychol), Nebraska, 57. Instr. psychol, Illinois State, 50-55; part-time instr. ed. psychol, Nebraska, 55-57, asst. prof, 57-58; Missouri, 58-61, assoc. prof, 61-64; PROF. SPEC. ED. & ED. PSYCHOL, PA. STATE, 64- Consult, State Farm Ins. Co, 61-64; psychol. consult. Home Merciful Savior, Phila, 66. Consult. ed, J. Sch. Psychol, 66. Field reader, res. br, U.S. Off. Ed, 63. U.S.A, 52-53, 1st Lt. Psychol. Asn; Coun. Except. Children; Personnel & Guid. Asn. Attitude toward televised instruction; physiological and psychological reaction to intelligence test items; characteristics of high school dropouts of high mental ability. Publ: Educating the gifted: a book of readings, Holt, 59, rev. ed, 64; Pictorial test of intelligence, Houghton, 64; Guide to the evaluation of title I projects, U.S. Gov. Printing, 66. Address: 544 Kemmerer Rd, State College, Pa. 16801.

FRENCH, DR. KATHRINE S(TORY), b. Champaign, Ill, June 5, 22; m. 43. ANTHROPOLOGY. B.A, Pomona Col, 42, Honnold fel, 42-43; univ. scholar, Columbia, 42-44, Ph.D.(anthrop), 55. Asst. admin. fair employ. practices act, State Bur. Labor, Ore, 49-51; instr. anthrop, Portland Exten. Center, OREGON, 51-56, ANTHROP. IN PEDIAT, MED. SCH, 58-64, ASST. PROF, 64- Ethnol. Soc.(treas, 59-60); fel. Anthrop. Asn; Soc. Appl. Anthrop; Sociol. Asn. Ethnology of Western America and the Pacific; Japanese-Americans; social organization; comparative medicine; medical social structure. Publ: Co-auth, The Warm Springs Indian community, Am. Indian; Research interviewers in a medical setting. Address: University of Oregon Medical School, Portland, Ore. 97201.

FRENCH, PROF. NORMAN DuGARD, Econ, see 10th ed, Soc. & Behav. Vols.

FRENCH, DR. ROBERT L(INTON), b. Sault Ste. Marie, Mich, Aug. 1, 15; m. 41; c. 2. SOCIAL PSYCHOLOGY. A.B, Michigan, 37, A.M, 38; Ph.D. (psychol), Stanford, 40. Instr. psychol, Yale, 40-41, Sterling fel, 41-42; training res. assoc, Nat. Defense Res. Cmt. proj, div. war res, California, 42-44; supvr, curriculum planning, submarine training sect, Columbia, 44-46; asst. prof. psychol, Northwestern, 46-51; dir. crew res. lab, personnel & training res. center, Randolph Air Force Base, Tex, 51-57; dir. mkt. & soc. res. div, Psychol. Corp, 57-60; v.pres. res. & testing, Sci. Res. Assocs, Inc, 60-65; PSYCHOL. CONSULT, 65- Vis. scientist, Tufts, 65-66. Fel, Psychol. Asn; Ed. Res. Asn. Selection and training of military personnel; behavior of groups; psychological measurement. Address: Rockholm, Annisquam, Mass. 01930.

FRENCH, PROF. ROBERT W(ARREN), b. South Bend, Ind, May 8, 11. ECONOMICS. A.B, Michigan, 32, Earhart fel, 32-34, A.M, 33, univ. fel, 35-37, Ph.D, 37; fel, Brookings Inst, 34-35. Jr. partner, Johnson-Smith Co, Mich, 37-41; asst. prof. bus. admin, La. State, 41-42, assoc. prof, 42-46, asst. dir. bur. bus. res, col. commerce, 41-46; prof. bus. admin, Texas, 46, dir. bur. bus. res, col. bus. admin, 46-49; prof. bus. admin, Tulane, 49-53, econ, 53-56, v.pres. univ, 53-56, dean col. commerce & bus. admin, 49-53, co-chmn. tax inst, 51-55; pres, Tax Found, N.Y, 56-63; prof. mgt. & dir. exec. prog, grad. sch. bus. admin, Southern California, 63-65; PROF. BUS. ADMIN. & STAFF ASSOC, OFF. PRES, ILLINOIS, CHICAGO, 65- Economist, div. monetary res, U.S. Treas. Dept, 41. Ed, Bus. Rev, 41-49. Chmn. study cmt. fed. aid to welfare, Cmn. Intergovt. Rels, 54-55. Soc. Adv. Mgt. Publ: Contrib, American peoples encyclopedia; auth, Educating the tax executive; Control of government expenditures. Address: Dept. of Business Administration, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

FRENCH, PROF. WENDELL LOWELL, b. Inman, Nebr, Sept. 29, 23; m. 59. INDUSTRIAL PSYCHOLOGY & RELATIONS. B.A, Colorado, 48, M.P.S, 49; Ed.D, Harvard, 56. Instr, San Diego Voc. High Sch. & Jr. Col, 49-51; dir. personnel rels, Mallinckrodt Chem. Works, 54-58; assoc. prof. PERSONNEL, WASHINGTON (SEATTLE), 58-62, PROF, 62-, CHMN. DEPT. MGT. & ORGN, 65- Consult, various industs, 65- U.S.A.A.F, 43-45, 1st. Lt. Psychol. Asn; Indust. Rels. Res. Asn; Acad. Mgt. Personnel and industrial relations theory; organizational theory; human relations; psychological testing; employee and executive selection. Publ: The personnel management process: human resources administration, Houghton, 64. Address: 5826 N.E. 181st St, Seattle, Wash. 98155.

FRENKEL, DR. ROBERT E(DGAR), b. New York, N.Y, June 1, 27; m. 58; c. 2. GEOGRAPHY, ECOLOGY. A.B, Kenyon Col, 50; M.S, California, Berkeley, 54, Ph.D.(geog), 67. Res. metallurgist, Stanford Res. Inst, 55-59; ASST. PROF. GEOG, OREGON STATE, 65- U.S.N, 45-46. Asn. Am. Geog; Ecol. Soc. Am. Biogeography; vegetation modification under human activity; cultural geography; philosophical basis of the conservation movement. Address: 226 N. 29th St, Corvallis, Ore. 97330.

FREPPERT, DR. LUCAN R(AYMOND), Philos, Sociol, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

FRESCHI, DR. VINCENT JOSEPH, b. New York, N.Y, Feb. 1, 27; m. 50; c. 4. PSYCHOLOGY. B.A, Queens Col.(N.Y), 50; M.A, N.Y. Univ, 51, Ph.D, 57. Intern psychol, State Psychol. Intern Training Prog, N.Y, 53-54; staff psychologist, EMBREEVILLE STATE HOSP, 54-56, sr. psychologist, 56-57, SUPVRY. PSYCHOLOGIST, 57- Private practice, 57- U.S.A, 46-47. Psychol. Asn; Soc. Proj. Tech; fel. Asn. Ment. Deficiency. Psychodiagnosis; projective techniques; psychotherapy; child development; family therapy. Address: 14 Penn Lane, West Chester, Pa. 19380.

FRETWELL, PROF. LORETTA NAOMA, b. Jordan Valley, Ore, May 7, 22. PSYCHOLOGY. B.E, Oregon, 56; M.A, Colo. State Col, 57, Ed.D, 59. Teacher, pub. schs, 56-58; asst. prof. PSYCHOL, EAST. WASH. STATE COL, 59-62, assoc. prof, 62-67, PROF, 67- W.A.C, 43-46, Sgt. Psychol. Asn. Research design and experimental methods; personality and learning theory; psychotherapy. Address: Dept. of Psychology, Eastern Washington State College, Cheney, Wash. 99004.

FRETZ, DR. BRUCE R, b. Doylestown, Pa, June 28, 39; m. 61; c. 1. PSYCHOLOGY. B.A, Gettysburg Col, 61; M.A, Ohio State, 63, Ph.D.(psychol), 65. Teaching asst. PSYCHOL, Ohio State, 62-63, asst. instr, 63-65; ASST. PROF, MARYLAND, 65- Consult, Vet. Admin, 66- AAAS; Psychol. Asn; Personnel & Guid. Asn. Vocational development; student ecology; interrelationship of neuromotor and psycho-social development; nonverbal be-

havior in therapeutic relationships. Publ: Co-auth, Practice in effective study, Tri-State, 64; Postural movements in a counseling dyad, J. Counseling Psychol, 66; Developmental and therapeutic values of physical play for children, Sport Psychol, Bulgaria, 67. Address: Dept. of Psychology, University of Maryland, College Park, Md. 20742.

FRETZ, PROF. J(OSEPH) W(INFIELD), b. Perkasie, Pa, Sept. 29, 10. SOCIOLOGY. A.B, Bluffton Col, 34; A.M, Chicago, 38, Ph.D, 41; B.D, Chicago Theol. Sem, 40. Field secy, Bluffton Col, 34-36; asst. prof. sociol, Bethel Col.(Kans), 45-63, chmn. div. soc. sci, 48-63, acting pres, col, 59-60; PROF. SOCIOL, WATERLOO & PRES, CONRAD GREBEL COL, 63- Guggenheim res. fel, 58-59. Chmn, Conf. Mennonite Cultural Probs, 42- Sociol. Asn; Acad. Polit. & Soc. Sci. Publ: Pilgrims in Paraguay; Immigrant group settlements in Paraguay, 62; The Mennonites in Ontario, 67. Address: Dept. of Sociology & Anthropology, University of Waterloo, Waterloo, Ont, Can.

FREUD, DR. SHELDON L(EE), b. New York, N.Y, Dec. 30, 22; m. 52; c. 2. PSYCHOLOGY. A.B, N.Y. Univ, 49; M.A, Connecticut, 51, Ph.D.(psychol), 62. Chief psychologist, Air Force Hosp, Sampson Air Force Base, N.Y, 51-52, officer in charge, Prisoner Rehab. Center, 52-53, psychologist, Air Force Inst. Tech, 53-55, chief clin. psychol. res. sect, Sch. Aviation Med, Randolph Air Force Base, Tex, 55-57, clin. psychol. sect, Air Force Hosp, Bolling Air Force Base, D.C, 57-58, chief psychologist, Andrews Air Force Base, 58-60, psychologist, Air Force Inst. Tech, 60-61, chief psychologist, Air Force Hosp, Andrews Air Force Base, 61-63, res. psychologist, Off. Aviation Med, Fed. Aviation Agency, 63-66, off. dep. chief of staff, bioastronaut. hq, Air Force Systs. Command, 66-68; CHIEF PSYCHOLOGIST, GROUP HEALTH ASN, 68- Lectr, Air Univ, 58-60; Air Force rep, behav. sci. & ment. health study sect, div. res. grants, Nat. Insts. Health, 59-68; lectr, George Washington, 61- Consult, Inst. Personality & Ability Testing, Ill, 59-; South. Md. Gen. Hosp, 60-68. Mem. admissions adv. cmt, N.Y. Univ, 63-68; Prince Georges County cmnrs. ment. health adv. group, 67- Ord.C, 42-45; Biomed. Sci. Corps, U.S.A.F, 51-68, Capt. Psychol. Asn; Asn. Aviation Psychol.(pres, 65-67, exec. secy, 67-); Aerospace Med. Asn; Research Soc. Psychodiagnostic evaluation of personality; group and individual psychotherapy; use of visual and visuomotor tests in detection of organic brain damage; assessment of managerial and executive personnel; aviation and industrial psychology. Publ: Co-auth, Predicting psychiatric diagnoses with the MMPI, J. Clin. Psychol, 56; auth, Duration of the spiral aftereffects as a function of retinal size, retinal place and hemiretinal transfer, Perceptual & Motor Skills, 64; The physiological locus of the spiral aftereffect, Am. J. Psychol, 64. Address: 5108 26th Ave, Washington, D.C. 20031.

FREUDENBERGER, DR. HERBERT J(USTIN), b. Germany, Nov. 26, 26; nat; m. 54. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 52; M.A, N.Y. Univ, 53, Ph.D.(clin. psychol), 56; cert, Nat. Psychol. Asn. Psychoanal, 58. Intern, Children's Village, N.Y, 52-53; Kings County Hosp, Brooklyn, N.Y, 53-54; psychologist, Indust. Home for Blind, 54-55; psychologist & psychotherapist, speech & hearing clin, Queens Col.(N.Y), 55-61; PROF. PSYCHOL, COCHRAN SCH. NURSING, 62- Private practice, 54-; instr, Brooklyn Col, 55-58; vis. asst. prof, La. State, 56; assoc. attending psychologist, Stuyvesant-Polyclin. Hosp, 61-66; adj. prof, N.Y. Univ, 63-; prof, New Rochelle Hosp, 65-67. Consult, Am. Found. for Blind, 58-60; Israeli Govt, 60. Mem, Mayor's Adv. Cmt. Soc. Scientists, 65-67. Psychol. Asn. Psychoanalysis; psychodiagnostics and selection of business executives; emotional-environmental deprivation; phenomena of regression in psychoanalysis. Publ: The prediction of the relationship between five selected personality characteristics on the acceptance or rejection of optical aids in a low vision population; Technical planning, visual, occupational and travel method survey of a visually handicapped population; Some clinical observations for optometrists working with low vision patients. Address: 890 Park Ave, New York, N.Y. 10021.

FREUDENBERGER, DR. HERMAN, b. Eberbach, Germany, Apr. 14, 22; U.S. citizen; m. 51; c. 2. ECONOMIC HISTORY. B.S, Columbia, 50, M.A, 51, Ph.D.(econ. hist), 57. Instr. hist, Brooklyn Col, 56-58, 59-60; lectr, Rutgers, 58-59; asst. prof, Montana, 60-62; assoc. prof. ECON, TULANE, 62-66, PROF, 66- Fulbright fel, Austria, 53-55; Am. Philos. Soc. fel, 59; res. grant, Harvard Bus. Sch, 63; Inter-Univ. Cmt. Travel Grants, Czech, 64-65. Mem. adv. bd, Bus. Hist. rev, 62-65. U.S.A, 42-46. Econ. Asn; Econ. Hist. Asn; Hist. Asn. Central European economic history, especially of the Habsburg monarchy; industrial history, especially the history of the factory. Publ: Waldstein woolen mill: noble entrepreneurship in eighteenth century Bohemia, Harvard, 63; Die Struktur der frühindustriellen Fabrik im Umriss, Probleme der frühen Industrie, Berlin, 68; State intervention as an obstacle to economic growth in the Habsburg monarchy, J. Econ. Hist, 1/68. Address: Dept. of Economics, Tulane University, New Orleans, La. 70118.

FREUND, DR. GERALD, b. Berlin, Germany, Oct. 14, 30; U.S. citizen; m. 56; c. 3. POLITICAL SCIENCE, HISTORY. B.A, Haverford Col, 52; Dr. Phil. (mod. hist), Oxford, 55. Res. fel. mod. hist, St. Antony's Col, Oxford, 55-56; Rockefeller grant & res. assoc. hist, inst. adv. study, Princeton, 56-57; Carnegie res. fel. contemporary affairs, Coun. For. Rels, New York, 57-58; asst. prof. polit. sci, Haverford Col, 58-60; consult. soc. sci, ROCKEFELLER FOUND, 60-61, asst. dir. soc. sci, 61-64, ASSOC. DIR. HUMANITIES & SOC. SCI, 64- & ARTS, 65- Rockefeller Found. res. grant & consult, Wash. Center For. Policy Res, 59-60. Mem, Cmn. Study Orgn. Peace, 59- Polit. Sci. Asn; Hist. Asn; Coun. For. Rels. Recent German history; contemporary American foreign policy, especially in Europe; American cultural affairs, especially the role of the performing arts. Publ: Unholy alliance: German-Russian relations, 1917-1926, 57 & Germany between two worlds, 61, Harcourt; Eastern front in World War I, In: Encyclopedia Americana, 63. Address: Room 4200, 111 W. 50th St, New York, N.Y. 10020.

FREUND, PROF. J(OHN) E(RNST), Math. Statist, see 11th ed, Phys. & Biol. Vols.

FREUND, DR. LUDWIG F(RANZ), b. Mulheim, Germany, May 22, 98. POLICTICAL SCIENCE. Göttingen, 19; Heidelberg, 19-20, Munich, 20-21; Ph.D, Leipzig, 22. Res. assoc. econ, Columbia, 37; prof. sociol. & polit. sci, Ripon Col, 37-47; prof. POLIT. SCI, ROOSEVELT, 47-62, chmn. dept, 50-55, 58-62, EMER. PROF, 62- Res, writing & lectr, Germany, 59- Specialist & vis. prof, Erlangen & col. polit. sci, Munich, 51; Northwestern, 54; Roosevelt, 62-63. Consult, Fed. Defense Dept, Bonn, 64- Konrad-Adenauer prize for scientific achievement, 67. German Army, 16-19; U.S.A, 42-43. AAAS; German Fine Arts Soc. Political theory; international relations and political sociology; philosophy. Publ: Ko-existenz und Entspannung: Hoffnung oder Gefahr, Holzner, 2nd ed, 66; Die amerikanische Politikwissenschaft und die Deutsche Frage, 68 & Die Bedeutung der Allianzen und Streitkräfte im Atomzeitalter, 68, Seewald. Address: Hannover-Waldheim, Kettlerweg 4, W.Germany.

FREUND, DR. RUDOLF J(AKOB), Statist, Agr. Econ, see 11th ed, Phys. & Biol. Vols.

FREUND, DR. WILLIAM C, b. Germany, Sept. 4, 26; nat; m. 52; c. 3. ECONOMICS, FINANCE. Ph.D, Columbia, 55. Economist, Prudential Ins. Co, 52-61; assoc. prof. FINANCE, GRAD. SCH. BUS. ADMIN, N.Y. UNIV, 61-64, ADJ. PROF, 64-; CHIEF ECONOMIST & EXEC. DIR. INVESTMENT RES, PRUDENTIAL INS. CO. AM, 64- Chmn. econ. policy coun, State of N.J, 66- Econ. consult, 61- Econ. Asn; Finance Asn; Statist. Asn. Publ: Investment fundamentals, Am. Bankers Asn, 2nd ed, 66; Appraisal of the sources and uses of funds, J. Finance; Financial intermediaries and federal reserve controls over the business cycle, Quart. Rev. Econ. & Bus. Address: 64 Circle Dr, Millington, N.J. 07946.

FREY, DEAN ALBERT W(ESLEY), b. Lynn, Mass, Aug. 10, 98; m. 22; c. 1. BUSINESS ADMINISTRATION. A.B, Dartmouth Col, 20, M.B.A, 21, M.A, 37. Instr. MKT, Amos Tuck Sch, Dartmouth Col, 21-27, asst. prof, 27-37, PROF, 37-60; PITTSBURGH, 61-, DEAN GRAD. SCH. BUS, 66- Vis. prof, California, Los Angeles, 49. Ed-in-chief, J. Mkt, 53-55. U.S.A, 18-19, 2nd Lt. Mkt. Asn.(pres, 61-62). Marketing. Publ: Ed, Marketing Handbook, Ronald, 65; auth, How many dollars for advertising; The advertising industry. Address: University of Pittsburgh Graduate School of Business, Pittsburgh, Pa. 15213.

FREY, DR. FRED C, b. Tangipahoa Parish, La, Nov. 8, 91; m. 18; c. 4. SOCIOLOGY. A.B, La. State, 21; Chicago, 22-23; Ph.D, Minnesota, 29. From instr. to prof. sociol, LA. STATE, 22-52, dean men, 30-32, col. arts & sci, 31-41, univ, 39-49, 51-52, acting pres, 47, EMER. DEAN, 52- Instr, Minnesota, 26-27, 28-29. U.S.A, 17-19, Maj. AAAS; Sociol. Asn; Rural Sociol. Soc. Race relations; factors influencing success in college; rural-urban migration. Address: Dept. of Sociology, Louisiana State University, Baton Rouge, La. 70803.

FREY, PROF. FREDERICK W(ARD), b. Cleveland, Ohio, June 16, 29; m. 67. POLITICAL SCIENCE, SOCIOLOGY. B.A, Western Reserve, 51; Rhodes scholar, Oxford, 51-53; For. Area Training fel, Turkey, 57-59; Ph.D.(polit), Princeton, 62. Asst. prof. POLIT. SCI, MASS. INST. TECH, 60-63, assoc. prof, 63-66, PROF, 66- Pi Sigma Alpha award, Am. Polit. Sci. Asn. Annual Meeting, 67. U.S.A, 53-55. Polit. Sci. Asn; Asn. Pub. Opinion Res; Sociol. Asn. Comparative politics; political behavior; communication; methodology; survey research. Publ: The Turkish political elite, Mass. Inst. Tech, 65; Surveying peasant attitudes in Turkey, Pub. Opinion Quart, 63. Address: Dept. of Political Science, Room E53-363, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

FREY, PROF. HAROLD A(LFRED), b. Fairmont, Minn, Apr. 26, 00; m. 46. MARKETING. B.A, Wisconsin, 23, M.A, 25, Ph.D, 42; Harvard, 26-27; M.B.A, Northwestern, 28. Instr. econ, Purdue, 25-26; from assoc. prof. to prof. mkt. & chmn. dept, Toledo, 30-42; dist. economist, Off. Price Admin, 42-43; prof. MKT, col. bus. admin, Miami (Fla), 45-49; prof. & chmn. dept, Arkansas, 50-67; PROF, JACKSONVILLE STATE, 67- Pres, Ohio Thermeron Co, 36-39; secy. & dir, Toledo Sports Center, 40-43; trustee, Wiedenbec-Dobelin Co, 43-52; owner, Bol-Mor Recreation, 44-47; Harold A. Frey & Assocs, 46-49. Mkt. Asn. Tourist industry; retail selling and advertising problems; salesmanship. Publ; Co-auth, Business decline and advertising ethics; auth, Your retail sales personnel and policies; College-business exchange program. Address: 300 N. Pelham Rd, Jacksonville, Ala. 36265.

FREY, PROF. JOHN W(EAVER), b. Depue, Ill, Mar. 8, 89; m. 28; c. 1. GEOGRAPHY, GEOLOGY. S.B, Chicago, 19; London Sch. Econ, 22-23; Ph.D, Wisconsin, 26. Instr. geog, Wisconsin, 20-26, assoc. prof, 26-28; sect. chief petrol. bur, for. & domestic commerce, U.S. Dept. Commerce, 28-33, mem, Petrol. Admin. Bd, 33-35, assoc. dir, petrol. conserv. div, U.S. Dept. Interior, 36-41, dir. mkt, Petrol. Admin. for War, 41-42, spec. asst. to dep, adminstr, 42-46, spec. asst. to dir, oil & gas div, U.S. Dept. Interior, 46-47, dir. div. mkt, Am. Petrol. Inst, 47-54, br. chief, oil & gas extraction, minerals indust, Bur. Census, 55-56; prof. geol. & geog. & chmn. dept, AMERICAN UNIV, 57-61, prof. EARTH SCIS, 61-62, EMER. PROF, 62- Consult, House Select Cmt. For. Aid, 47-48; hist. cmt, Am. Petrol. Inst, 55-59. Ord. Dept, U.S.A, 17-18, Sgt. Asn. Am. Geog. Regional geography, especially North America and Europe; physical geography; economic geography of minerals; mineral economics, especially petroleum. Publ: Contrib, World geography of petroleum & Mineral resources of the world; co-ed, History of the petroleum administration for war. Address: 4236 47th St. N.W, Washington, D.C. 20016.

FREY, DR. M. WILLIAM, II, b. Philadelphia, Pa, June 23, 34; m. 56; c. 3. MANAGEMENT SCIENCE, PSYCHOLOGY. B.S, Pa. State, 56, Ph.D.(mgt, psychol), 63; M.A, Connecticut, 57. Student asst. soc. psychol. res, PA. STATE, 55-56, res. asst. econ. impact, 58-60, teaching asst, MGT. SCI. & ORGN. THEORY, 60-61, instr, 61-63, asst. prof, 64-66, ASSOC. PROF, 66- Acad. Mgt; Inst. Mgt. Sci; Opers. Res. Soc. Computer simulation of learning, decision and problem solving, personality and group processes. Publ: The Calxton Company, Harvard Case, 61; Experimental study of the influence of disruptive interaction induced by authoritarian-equalitarian leader-follower combinations upon the decision-making effectiveness of small groups, Dissertation Abstracts, 64; Finansim: a financial management simulation, Int. Pub. Address: Dept. of Management, Pennsylvania State University, 207-D Boucke Bldg, University Park, Pa. 16802.

FREY, DR. ROGER B(URNHAM), b. Bath, Maine, Aug. 12, 33; m. 56; c. 3. PSYCHOLOGY. B.A, Maine, 56, M.A, 60, Ph.D.(psychol), 66; Maryland 60-62. Instr. PSYCHOL, MAINE, 62-66, ASST. PROF, 66- Summer res. scientist, Human Sci. Res, Inc, 62. U.S.A, 56-58. Man-machine systems; animal behavior; operant conditioning. Publ: Co-auth, Group operant behavior, J. Genetic Psychol, 64. Address: Dept. of Psychology, 374 Little Hall, University of Maine, Orono, Maine 04473.

FREY, WILLIAM C(ARL), Statist, Chem, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

FREYD, DR. PETER J(OHN), Math, see 11th ed, Phys. & Biol. Vols.

FREYHAN, DR. FRITZ ADOLF, Psychiat, see 11th ed, Phys. & Biol. Vols.

FREYMANN, GRACE MARIE, b. Dubuque, Iowa, Oct. 4, 04. PSYCHOLOGY. B.A, Iowa, 40, M.A, 42. Psychologist, Pub. Sch. Syst, Iowa, 40-44; asst. psychol, State Univ. Iowa, 44-45, psychometrist & counsr, Vet. Admin. Guid. Center, 45-47, instr. & counsr. psychol, 46-50; chief psychologist spec. ed, State Dept. Pub. Instr, 50-51; DIR. PSYCHOL. SERV, GA. WARM SPRINGS FOUND, 51- AAAS; Psychol. Asn; Personnel & Guid. Asn. Follow-up study of Warm Springs patients; training facilities for physically handicapped students. Address: Georgia Warm Springs Foundation, Warm Springs, Ga. 31830.

FRICK, DR. FREDERICK C, b. Colorado Springs, Colo, Nov. 5, 17; m. 44; c. 2. PSYCHOLOGY. A.B, DePauw, 38; Cambridge, 38-39; Ph.D.(psychol), Columbia, 47. Asst. psychol, Columbia, 41, asst. & lectr, 46-47; instr, Harvard, 47-50; chief, communication div, Human Resource Res. Lab, U.S. Air Force, 50-54, acting dir. electronics, Air Force Cambridge Res. Center, 54-55; group leader, LINCOLN LAB, MASS. INST. TECH, 55-60, DIV. HEAD, 60- U.S.A.A.F, 43-45. AAAS; Asn. Comput. Mach; Acoustical Soc. Communication; digital computers. Address: Lincoln Lab, Lexington, Mass. 02173.

FRICKE, DR. BENNO G(ERRY), b. Jansen, Sask, Mar. 5, 25; m. 48; c. 4. PSYCHOLOGY. B.A, Saskatchewan, 48; B.Ed, Alberta, 49, M.Ed, 50; Ph.D, Minnesota, 54. Ford fel, grad. sch, Minnesota, 54-55; asst. chief EVAL. & EXAM. DIV. & BUR. PSYCHOL. SERV, MICHIGAN, 55-64, CHIEF, 64- Psychol. Asn; Personnel & Guid. Asn. Construction and use of group tests of personality, interest, ability and achievement. Publ: Handbook for the OAIS; Prediction, selection, mortality and quality control, Col. & Univ; How colleges should select their students, Col. Bd. Rev. Address: 3030 Rackham Bldg, University of Michigan, Ann Arbor, Mich. 48104.

FRICKE, PROF. CEDRIC V(ALJEAN), b. Benton Harbor, Mich, Mar. 18, 28; m. 55; c. 2. ECONOMICS, FINANCE. B.S.E, Michigan, 49, M.B.A, 50, Ph.D.(finance), 59. Statistician, Gen. Motors Corp, 50-55; instr. econ, Wayne State, 57-59, asst. prof, 59-60; finance, MICHIGAN, DEARBORN CAMPUS, 60-63, assoc. prof. BUS. ADMIN, 63-67, PROF, 67- U.S.A, 50-52. Econ. Asn; Finance Asn; Statist. Asn. Consumer credit; business conditions forecasting. Publ: Variable annuity; co-auth, Consumer finance companies in Michigan & Consumer instalment credit and public policy, Univ. Michigan Bur. Bus. Rels, 65. Address: Dearborn Campus, University of Michigan, 4901 Evergreen, Dearborn, Mich. 48124.

FRIDAY, PROF. CHARLES B(OSTWICK), b. Ft. Collins, Colo, Aug. 6, 21; m. 44; c. 3. ECONOMICS. A.B, Colorado, 43, A.M, 47, Ph.D, 50. Instr. ECON, Colorado, 47-50; asst. prof, OREGON STATE, 50-53, assoc. prof, 53-57, PROF, 57-, chmn. dept, 57-67. Vis. lectr, Carleton Col, 66, 67, lectr, Exec. Seminar Center, U.S. Civil Serv. Cmn, Calif, 67. Mem. adv. coun, Small Bus. Admin, 62-67. U.S.A, 43-45. Asn. Evolutionary Econ; Econ. Asn; Econ. Hist. Asn. Economic history; history of economic thought; economic theory. Publ: Co-auth, The economists of the new frontier, Random, 63; auth, Veblen versus Chamberlin on monopolistic competition, Proc. West. Econ. Asn; Some methodological similarities in modern physics and economics, In: Main currents in modern thought. Address: Dept. of Economics, Oregon State University, Corvallis, Ore. 97331.

FRIED, DR. CHARLES, b. New York, N.Y, Mar. 4, 31; m. 56; c. 1. PSYCHOLOGY, HUMAN FACTORS. B.S.S, City Col. New York, 51; M.A, New Sch. Social Res, 53; Ph.D.(psychol), American Univ, 63. Exp. psychologist, Rome Air Develop. Center, 56-58; U.S. Army Human Eng. Labs, 58-63; sr. scientist, info. sci. center, Budd Co, 63-65; consult. analyst, info. systs. opers, Gen. Elec. Co, 65-66; MEM. TECH. STAFF HUMAN FACTORS, TRW SYSTS, INC, 66- Mem. subcmt. displays, vision cmt, Nat. Res. Coun, 62-63. U.S.A, 53-55. Psychol. Asn; Optical Soc. Am; Soc. Info. Sci. Experimental psychology as applied to perceptual problems; human factors topics such as displays, and manual documentation. Publ: Co-auth, Automatic cloud interpretation, Photogrammetric Eng, 11/65, Sequential and parallel processing in boundary selections, Perceptual & Motor Skills, 65 & Studies in the use of published indexes, Nat. Sci. Found. Report, 66. Address: 5201 Myer Court, Rockville, Md. 20853.

FRIED, DR. CHRISTOPHER, b. Paris, France, June 3, 30; nat. CLINICAL PSYCHOLOGY. A.B, Swarthmore Col, 50; A.M, Harvard, 52, Ph.D.(clin. psychol), 57. Civilian alternative serv, U.S. Vet. Admin. Hosps, Brockton & Bedford, Mass, 55-57; ASSOC. PROF. PSYCHOL. & STUDENT COUNSR, UNION COL.(N.Y), 57- Consult, Helsinki Children's Castle, 65. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. Psychol. Asn. Psychoanalytic theory and therapy; projective tests. Publ: Motives of an assassin, Union Col. Symp, winter 64; Finnish and American apperceptions of father and mother on the Rorschach, East. Psychol. Asn. Convention, 4/68. Address: Dept. of Psychology, Union College, Schenectady, N.Y. 12308.

FRIED, PROF. MARC ALLEN, b. Newport, R.I, May 29, 22; m. 53; c. 4. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 43; fel, Harvard, 48-50, Ph.D.(clin. psychol), 55. Lectr. psychol, Brooklyn Col, 47; res. assoc, Russian Res. Center, Harvard, 50-53; clin. psychologist, Boston Psychopath. Hosp, 53-56; res. assoc. PSYCHOL, Harvard Med. Sch, 57-65; RES. PROF, BOSTON COL, 65- Summers, lectr, City Col. New York, 47, asst, Boston Psychopath. Hosp, 48, clin. psychologist, Cleveland State Hosp, Ohio, 49. U.S.A, 43-46. AAAS; Psychol. Asn. Epidemiology of mental health and illness; relationship between personality and sociocultural patterns. Publ: Grieving for a lost home, In: The environment of the metropolis, Sociocultural factors in mental health and illness, Am. J. Orthopsychiat. & Some sources of residential satisfaction in an urban slum, J. Am. Inst. Planners. Address: Institute of Human Sciences, Boston College, Chestnut Hill, Mass. 02167.

FRIED, DR. MORRIS L, b. New York, N.Y, Jan. 26, 25; m. 49; c. 2. SOCIOLOGY. A.B, Buffalo, 51; M.A, New Sch. Soc. Res, 58, Ph.D.(sociol), 64. Lectr. SOCIOL, Fairleigh Dickinson, 62-64; asst. prof. & asst. chmn. dept, STATE UNIV. N.Y. BUFFALO, 64-67, ASSOC. PROF, 67- U.S.A.A.F, 43-46, Sgt. Sociol. Asn; Soc. Study Social Probs; Nat. Coun. Crime & Delinquency. History of social thought; sociological theory; mental health; political sociology. Publ: Occupational identity and the non-person, State Univ. N.Y. Buffalo, 67; Social stratification and mental illness, Kolner Zeitschrift Sociol. & Socialpsychol, 1/59 & 64. Address: Dept. of Sociology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

FRIED, PROF. MORTON H(ERBERT), b. New York, N.Y, Mar. 21, 23; m. 45; c. 2. ANTHROPOLOGY. B.S, City Col. New York, 42; Soc. Sci. Res. Coun. fel, China, 47-49; Ph.D.(anthrop), Columbia, 51. Lectr. ANTHROP, City Col. New York, 49-50; instr, COLUMBIA, 50-52, asst. prof, 52-55, assoc. prof, 55-61, PROF, 61-, chmn. dept, 66-69. Vis. prof, Taiwan & Guggenheim fel, 63-64; Nat. Sci. Found. grants, 63-65. Chmn. Asia Cmt, div. psychol. & anthrop, Nat. Acad. Sci-Nat. Res. Coun, 57-; mem. bd. dirs, Soc. Sci. Res. Coun, 66-69; mem, Sino-Am. Cmt. Coop. Humanities & Soc. Sci, 66- U.S.A, 43-46. Fel. Anthrop. Asn; Ethnol. Soc; Asn. Asian Studies. Evolution; social and political organization; overseas Chinese in Caribbean and Guianas; kinship and social stratification in primitive society; kin groups in modern society, especially China; evolution of the state. Publ: The evolution of political society, Random, 67; Fabric of Chinese society, Octagon, 2nd ed, 68; co-auth, Distribution of surnames in Taiwan, Nat. Taiwan Univ, 68. Address: Dept. of Anthropology, Columbia University, New York, N.Y. 10027.

FRIEDELBAUM, PROF. STANLEY H(ERMAN), b. New York, N.Y, Oct. 6, 27; m. 53. POLITICAL SCIENCE. A.B, Brooklyn Col, 47; A.M, Rutgers, 48; Hearon fel, Chicago, 49; Ph.D.(hist), Columbia, 55. Lectr. hist, Brooklyn Col, 49-51; res. assoc, bur. govt. res, RUTGERS, 51-58, instr. POLIT. SCI, 53-54, asst. prof, 58-61, assoc. prof, 61-64, PROF, 64- Rutgers Res. Coun. faculty fel, 65-66. Polit. Sci. Asn. Constitutional law; American government. Publ: Co-auth, Government in the United States, Houghton, 66; auth, Baker v. Carr: the new doctrine of judicial intervention and its implications for American federalism, 62 & The Warren court and American federalism, Law Rev, Univ. Chicago. Address: Dept. of Political Science, Rutgers, The State University, New Brunswick, N.J. 08903.

FRIEDELL, DR. MORRIS F, b. Rochester, Minn, Feb. 3, 40; m. 64; c. 1. SOCIOLOGY. B.S, Chicago, 59, Nat. Defense Ed. Act fel, 62-64, M.A, 63, Ph.D.(sociol), 65. Instr. SOCIOL, MICHIGAN, 64-65, ASST. PROF, 65- Sociol. Asn; Soc. Study Social Probs. Theory of rational social behavior; molar analysis of interaction process. Publ: Co-auth, The interaction screen, Behav. Sci, 65; auth, Organizations as semilattices, Am. Sociol. Rev, 67; A laboratory experiment in retaliation, J. Conflict Resolution, 68. Address: Dept. of Sociology, University of Michigan, Ann Arbor, Mich. 48104.

FRIEDEMANN, PROF. ZYGMUNT J, b. Krakow, Poland, Feb. 15, 22; U.S. citizen; m. 48; c. 2. POLITICAL SCIENCE. A.B, Brown, 54, scholar & M.A, 58, fel. & Ph.D.(polit. sci), 66; Harvard, 60-61. Chief clerk, UNRRA, Germany, 46-47; Am. Labor Off, Germany, 47-48; instr. German lang, PROVIDENCE COL, 56-57, POLIT. SCI, 57-59, asst. prof, 59-64, assoc. prof, 64-68, PROF, 68-, CHMN. DEPT, 66- Summers, Participant, Am. Asn. Mid. East Study in-serv. seminar, Williams Col, 60, Am. Polit. Sci. Asn. in-serv. fel, Rutgers, 61, Columbia Univ. fel, seminar-Chinese culture, Formosa, 67. Polit. Sci. Asn. International politics. Publ: Personal merit system study of the City of Warwick, Rhode Island, 59 & Municipal employees fringe benefits study, 61, City of Warwick; Wanted: a method to analyze international politics, In: How to use the daily newspaper in the curriculum, 64. Address: Dept. of Political Science, Providence College, Providence, R.I. 02918.

FRIEDENBERG, PROF. EDGAR ZODIAG, b. New York, N.Y, Mar. 18, 21. SOCIOLOGY, EDUCATION. B.S, Centenary Col, 38; M.A, Stanford, 39; Ph.D.(ed), Chicago, 46. Asst. prof. soc. sci, Chicago, 46-53; ed, Brooklyn Col, 53-61, assoc. prof, 61-64; PROF. sociol, California, Davis, 64-67; ED. & SOCIOL, STATE UNIV. N.Y. BUFFALO, 67- Distinguished vis. scholar, Ed. Testing Serv, 66; Falk lectr, Carnegie Inst. Tech, 66. Mem. bd. gov, Center Res. & Ed. Am. Liberties, Columbia, 66-; cmn. on tests, Col. Entrance Exam. Bd, 66- U.S.N.R, 44-46. Sociol. Asn; Ed. Res. Asn; Soc. Study Social Probs. Adolescent socialization, especially the effect of the schooling and other means of socialization on human growth and development. Publ: The vanishing adolescent, 59 & The dignity of youth and other atavisms, 65, Beacon; Coming of age in America, Random, 65. Address: Dept. of Sociology, State University of New York at Buffalo, Buffalo, N.Y. 14212.

FRIEDHEIM, DR. ROBERT L(YLE), b. New York, N.Y, Aug. 1, 34; m. 56; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B, Columbia, 55, M.A, 57; fel, Washington (Seattle), 59-60, Ph.D.(polit. sci), 62. From asst. prof. to assoc. prof. polit. sci, Purdue, 61-67; STRATEGIC ANALYST, CENTER NAVAL ANAL, 67- Am. Coun. Learned Socs. grant-in-aid, 62; summer res. grants, Purdue, 63 & 64. Intel.C, U.S.A.R, 57. Am. Polit. Sci. Asn; Int. Studies Asn; Int. Peace Res. Asn. Conflict behavior in international politics and organization, military affairs and labor; oceansciences policy; the Far East. Publ: The Seattle general strike, Univ. Washington, 64; The satisfied and dissatisfied states negotiate international law: a case study, World Polit, 10/65; Factor analysis as a tool in studying the law of the sea, In: The law of the sea, Ohio State Univ, 67. Address: Center for Naval Analyses, 1401 Wilson Blvd, Arlington, Va. 22209.

FRIEDL, DR. ERNESTINE, b. Csegled, Hungary, Aug. 13, 20; nat; m. 42. CULTURAL ANTHROPOLOGY. A.B, Hunter Col, 41; Ph.D, Columbia, 50. Instr. sociol, Wellesley Col, 44-46; lectr. SOCIOL. & ANTHROP, Brooklyn Col, 46-47; QUEENS COL.(N.Y), 47-51, instr, 51-56, asst. prof, 56-60, ASSOC. PROF, 60- Fulbright fel. & Wenner-Gren Found. grant-in-aid, Greece, 55-56. Participant, preliminary conf. intermediate socs, Soc. Sci. Res. Coun, 58; mem, Wenner-Gren Found. Conf. Rural Peoples of Mediterranean, Austria, 59; Athenian Soc. Sci. Center Conf. Mediterranean Communities, Greece, 61, 66. Fel. AAAS; Sociol. Asn; fel. Anthrop. Asn; Ethnol. Soc. (secy-treas, 50-52, v.pres, 66-67, pres, 67-68). Ethnology of Chippewa Indians and rural peoples of Greece; Urbanization in Greece. Publ: Vasilika: a village in modern Greece; Role of kinship in the transmission of national culture to rural villages in modern Greece; Lagging emulation in post-peasant society, Am. Anthropologist, 64. Address: 345 E. 69th St, New York, N.Y. 10021.

FRIEDL, DR. FRANCIS P(ETER), b. Waterloo, Iowa, Nov. 26, 17. PSYCHOLOGY. B.A, Loras Col, 39; M.A, Catholic Univ, 52, Ph.D.(psychol), 54. Instr. psychol, LORAS COL, 47-54, asst. prof. & dir. pub. rels, 54-58, ASSOC. PROF. PSYCHOL, 58-, V.PRES, COL, 56- Psychol. Asn. Electroencephalography; personality; abnormal psychology. Publ: Anxiety and cortical alpha in normal subjects & Successful and unsuccessful seminarians, Study Psychol. & Psychiat, Cath. Univ. Am. Address: Dept. of Psychology, Loras College, Dubuque, Iowa 52001.

FRIEDLAND, DR. DAVID M, b. New York, N.Y, Mar. 4, 25; m. 50; c. 3. PSYCHOLOGY. B.S.S, City Col. New York, 48; M.A, Pennsylvania, 49; Ph.D. (psychol), N.Y. Univ, 60. Chief psychologist, Berkshire Farm for Boys, N.Y, 49-51, 53-60; jr. psychologist, psychiat. inst, Grasslands Hosp, Valhalla, 52-53; asst. prof. psychol, Rensselaer Polytech, 60-63; PRACTISING PSYCHOLOGIST. 54- Psychologist, clin. alcoholism, Pittsfield Gen. Hosp, 60-; Berkshire Rehab. Center, 63- U.S.A, 43-46. Psychol. Asn. Psychotherapy; counseling; testing. Address: 197 South St, Pittsfield, Mass. 01201.

FRIEDLAND, PROF. LOUIS L(EIF), b. Paterson, N.J, Oct. 28, 08. PUBLIC ADMINISTRATION. A.B, Wisconsin, 32; A.M, Cincinnati, 33, Ph.D, 49. Asst, Bur. Govt. Res, Ohio, 33-34; chief placement, State Employ. Serv, 34-40; asst. regional rep, U.S. Employ. Serv, 41-42, employ. analyst, 45-47; chief opers, War Manpower Cmn, Mich, 42-45; asst. prof. govt, WAYNE STATE, 47-50, assoc. prof. pub. admin, 50-56, PROF. POLIT. SCI, 56-, ASSOC. DEAN COL. LIB. ARTS, 65- Res. consult, Legis. Cmt. Reorgn. State Govt, Mich, 50-; dir. Mich. Fair Employ. Practices Cmn, 55-56; res. dir, Mich. Legis. Reapportionment Cmn, 64-65; Metrop. Fund Detroit res. grant, 65-66. Consult, Detroit Region Planning Proj, 64-66. Polit. Sci. Asn; Pub. Personnel Asn: Soc. Pub. Admin. Personnel administration in state government; local government and state constitutions. Publ: Collab, Emergence and growth of an urban region, Donnelley, 66. Address: Wayne State University College of Liberal Arts, Detroit, Mich. 48202.

FRIEDLAND, PROF. S(EYMOUR), b. New York, N.Y, Oct. 8, 28; m. 52; c. 3. ECONOMICS. B.S, Boston, 50, M.B.A, 51; fel, Harvard, 52-53, Ph.D.(econ), 56. Economist, U.S. Bur. Labor Statist. & Bur. Census, 50-51; lectr. econ, Clark, 53; instr, Boston, 53-54, asst. prof, 56-58; lectr. finance, Mass. Inst. Tech, 55; econ, Northeast. Grad. Bus. Sch, 54-55; Rutgers, 58-60; assoc. prof, Grad. Sch, Claremont Cols, 60-64, prof. econ. & bus, 64-65; sr. consult, Joel Dean Assoc, N.Y, 65-66; vis. prof, Grad. Sch. Bus, N.Y. Univ, 66-67; PROF. FINANCE & ECON, FACULTY ADMIN. STUDIES, YORK (ONT), 67- Consult. to dir, Bur. Budget, D.C, 65-67; private consult, investment co, 66- U.S.A, 47-48. Econ. Asn; Finance Asn. Financial management; money-flows and financial institutions; industrial organization; control of business. Publ: Economics of corporate finance, Prentice-Hall, 66; The largest industrials, a study in growth and turnover, Rev. Econ. & Statist; Economic policy and small business, Proc. West. Econ. Asn. Address: 34 Green Valley Rd, Toronto, Ont, Can.

FRIEDLAND, DR. WILLIAM H(ERBERT), b. Staten Island, N.Y, May 27, 23; m. 58; c. 3. SOCIOLOGY. B.A, Wayne State, 56, M.A, 57; fel, California, Berkeley, 59-61, Ph.D.(sociol), 63. ASSOC. PROF. SOCIOL, N.Y. STATE SCH. INDUST. & LABOR RELS, CORNELL, 61- Sociol. Asn; African Studies Asn. Social change, especially institutional transfer and modern institutional development, particularly in Africa; social organization, particularly unusual forms. Publ: Co-ed, African Socialism, Stanford, 64. Address: New York State School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

FRIEDLANDER, DR. BERNARD Z(UCKERT), b. New York, N.Y, Apr. 22, 27; m. 59; c. 3. PSYCHOLOGY. B.A, Middlebury Col, 50; City Col. New York & Fordham, 57-58; M.S, Western Reserve, 59, Ph.D.(psychol), 62. Asst. to Am. dir, Am. Br, Cambridge Univ. Press, 53-55; asst. to pres, Reading Lab, Inc, 56-57; instr. psychol, Cleveland State, 61-62, asst. prof, 62-65, assoc. prof, 65-67; LECTR. RES. PSYCHOL, WISCONSIN, 67- Res. psychologist, Mental Develop. Center, Western Reserve, 60-67, Nat. Inst. Ment. Health res. fel, 62-63, co-prin. investr, Nat. Inst. Ment. Health grant, 63-66; Soc. Sci. Res. Coun. fel, Inst. Cognitive Develop, 64; vis. lectr, Illinois, Urbana, 67; prin. investr, U.S. Childrens Bur. res. grant, 68- Consult, infant stimulation res. proj, Univ. Wisconsin, 64-67. U.S.A, 45-47. AAAS; Am. Psychol. Asn; Soc. Res. Child Develop. Application of automated methods of behavior analysis to the study of receptive language development in human infants and to clinical problems of behavior development and rehabilitation in handicapped children and adults. Publ: A psychologist's second thoughts on concepts, curiosity and discovery in teaching and learning, Harvard Ed. Rev, 65; co-auth, Automated psychological evaluation with severely retarded institutionalized infants. Am. J. Ment. Deficiency, 67; auth, The effect of speaker identity, voice inflection, vocabulary and message redundancy on infants' selection of vocal reinforcement, J. Exp. Child Psychol, 68. Address: Dept. of Studies in Behavioral Disabilities, University of Wisconsin, Madison, Wis. 53706.

FRIEDLANDER, DR. STANLEY LAWRENCE, b. New York, N.Y, Sept. 5, 38; m. 59; c. 1. ECONOMICS. B.A, City Col. New York, 59; M.A, Illinois, 60; Westinghouse fel, Mass. Inst. Tech, 60-61, inst. fel, 63-64, Ph.D.(econ), 64. Sr. staff economist, Coun. Econ. Advs, 66-67; ASST. PROF. ECON, CITY COL. NEW YORK, 64-66, 67- Sr. res. assoc. conserv. human resources, Columbia, 67- Consult, Jenney Oil Co, Mass, 62-63; regional manpower adv. cmt, Dept. Labor, 66-67; Coun. Econ. Advs, 67-; econ. consult, 67- Indust. Rels. Res. Asn; Econ. Asn. Urban and labor economics; poverty and unemployment; manpower; human resources; economic development; demography. Publ: Labor migration and economic growth: a case study of Puerto Rico, M.I.T. Press, 65; co-auth, A quantitative study of the determinants of fertility behavior, Demography, 11-12/67. Address: Dept. of Economics, City College of New York, 139th St. & Convent Ave, New York, N.Y. 10031.

FRIEDLANDER, PROF. WALTER A, b. Berlin, Germany, Sept. 20, 91; nat. SOCIAL SCIENCE. Ph.D, Berlin, 20. Assoc. prof. child welfare, Berlin Seminar Soc. Workers, 27-33; assoc. prof. soc. work, HA-AW, Berlin, 29-33; exec. dir, Legal & Soc. Serv. for Refugees, France, 33-36; lectr. soc. serv. admin, Chicago, 37-43; SOC. WELFARE, CALIFORNIA, BERKELEY, 43-48, assoc. prof, 48-55, prof, 55-59, EMER. PROF, 59- Vis. prof, Mich. State, 59-60; Minnesota, 63-64; Cologne, 66; Berlin, 67 & Fulbright-Hayes sr. prof, summer 67. Pres, German Child Welfare League, Berlin, 31-33. Publ. Welfare Asn; Nat. Asn. Social Workers. History and philosophy of social work; welfare and social security; international social work. Publ: Individualism and social welfare; Concepts and methods of social work, 58 & Introduction to social welfare, 3rd ed, 68, Prentice-Hall. Address: 6437 Regent St, Oakland, Calif. 94618.

FRIEDLINE, DR. CORA LOUISA, Clin. Psychol, see 11th ed, Phys. & Biol. Vols.

FRIEDMAN, DR. ALICE R, b. Vienna, Austria, Mar. 17, 97; nat. CLINICAL PSYCHOLOGY. Ph.D, Vienna, 22. Dir. & psychotherapist, Sch. Prob. Children, Vienna, 24-38; clin. psychologist, Vet. Admin, 47-51; chief psychologist, ment. hyg. clin, Lebanon Hosp, New York, 52-57; private practice, 57-60, 64-67; group psychotherapist, Valley State Hosp, 59-67; CLIN. PSYCHOLOGIST, STATE DIAG. CENTER, MENLO PARK, N.J, 67- Psychotherapist, child guid. clin, Vienna Pub. Sch, 28-36; univ. exten, Vienna, 29-35. Psychol. Asn; Soc. Proj. Tech; Group Psychother. Asn. Education of problem children; earliest memories; lefthandedness; behavioristic and analytical elements of treatment in psychotherapy. Publ: Group psychotherapy with adolescents; The Medea complex; Group psychotherapy as a way of life. Address: 121 E. 31st St, New York, N.Y. 10016.

FRIEDMAN, DR. BERNARD H(ERTZ), b. New York, N.Y, Apr. 30, 23. ECONOMICS. A.B, Pittsburgh, 44, M.A, 48, Ph.D.(econ), 56. Economist, War Prod. Bd. & U.S. Dept. Labor, 44-47; instr. econ, Pittsburgh, 47-55; res. economist, Commonwealth of Pa, Dept. Commerce, 55-64; ASSOC. PROF. ECON, Bloomsburg State Col, 64-65; KUTZTOWN STATE COL, 65- Asst. prof, Harrisburg Exten, Pa. State, 55-60. Econ. Asn. Government and business relationships; natural resource development; economic history. Address: Dept. of Economics, Kutztown State College, Kutztown, Pa. 19530.

FRIEDMAN, DR. BERT, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

FRIEDMAN, DR. EDWARD L(EONARD), b. New York, N.Y, Sept. 18, 24; m. 52; c. 2. PSYCHOLOGY. Ph.D.(psychol), Duke, 56. Psychol. trainee, Vet. Admin, 47-50; psychologist, sch. med, Duke, 50-52, asst, 55-56; clin. psychologist, recruit depot, U.S. Marine Corps, 52-55; sr. clin. psychologist, Conn. State Hosp, 56-66; ACTING CHIEF ALCOHOLISM & DRUG DEPENDENCE UNIT, CONN. VALLEY HOSP, 66- Lectr, Connecticut, 64-65, 66. U.S.A, 43-45. Psychol. Asn. Personality theory; psychological diagnosis; gerontology; psychotherapy. Address: Box 351, Middletown, Conn. 06457.

FRIEDMAN, DR. EDWARD P(HILIP), b. New York, N.Y, Nov. 30, 39; m. 66. SOCIOLOGY. A.B, Oberlin Col, 61; Mellon fel, Pittsburgh, 61-62; Nat. Inst. Ment. Health fel, Yale, 62-65, Ph.D.(sociol), 65. Instr. psychiat, col. med, Baylor, 65-66; ASST. PROF. SOCIOL, PENNSYLVANIA, 66- Res. sociologist, Houston State Psychiat. Inst, 65-66; Nat. Inst. Ment. Health field dir, Charles Weinstein Geriat. Center, 67- Sociol. Asn. Medical sociology; social psychiatry; social gerontology; sociology of deviance. Publ: Spatial proximity and social interaction in a home for the aged, 10/66 & Age, length of institutionalization, and social status in a home for the aged, 67, J. Geront. Address: Dept. of Sociology, University of Pennsylvania, Philadelphia, Pa. 19104.

FRIEDMAN, DR. ERWIN, b. Budapest, Hungary, July 4, 25; U.S. citizen; m. 56; c. 3. CLINICAL PSYCHOLOGY. Ph.D.(psychol), Pázmány Peter Univ, Budapest, 49; Vienna, 52-53. Child care supvr, Am. Joint Distribution Cmt, Budapest, 46-49; therapist & consult, Bikur Cholim, Vienna, 49-51; psychol. consult. & therapist, Mizrachi Youth Center, Vienna, 51-53; lectr, Polyclin, Vienna & Leiden, 53-54; supv. psychiat. counsr, Jewish Bd. Guardians, N.Y, 55-57; dir. psychol. serv, N.J. State Colony, 57-61; chief psychologist & admin. assoc, Children's Psychiat. Center, Inc, N.J, 61-65; EXEC. DIR, JEWISH FOUND. RETARDED CHILDREN, INC, 65- Lectr, Trenton State Col, 58-59; supvr. doctoral prog, Rutgers, 61-65; acad. staff, Childrens Hosp, Wash, D.C, 65-; asst. prof, sch. med, George Washington, 67- Psychol. consult, N.J. Reformatory, 60-65. Psychol. Asn; Orthopsychiat. Asn; Asn. Ment. Deficiency. Etiology in mental retardation; childhood schizophrenia and early autism; psychology of symbols and myths. Publ: Analysis of test patterns of mentally defectives with and without affective deprivation in childhood, Acta Psychologica, 19: 407-408; Individual therapy with a defective delinquent, J. Clin. Psychol, 17: 229-232; A historical note to the wild boy of Kronstadt, J. Hist. Behav. Sci, 1: 284. Address: Jewish Foundation for Retarded Children, Inc, 6200 Second St. N.W, Washington, D.C. 20011.

FRIEDMAN, PROF. HARRY J, b. Trenton, N.J, Jan. 11, 26; m. 54. POLITICAL SCIENCE. B.Litt, Rutgers, 48; M.S, Wisconsin, 49; summers, Columbia, 54, Pennsylvania, 55; Ph.D, Pittsburgh, 56. Lectr. Am. govt, Pittsburgh, 53-54, instr, 54-56; researcher, India, 56-57; asst. prof. POLIT. SCI, Mich. State, 57-62; assoc. prof. HAWAII, 62-66, PROF, 66- Vis. prof. & consult, col. pub. admin, Philippines, 67- Adv, Acads. for Village Develop, Pakistan, 59-61. U.S.A, 44-46. Polit. Sci. Asn; Soc. Pub. Admin.

Comparative administration and politics; South and Southeast Asia. Publ: The American county and Pakistani district: a comparison of administrative impact, In: District administration in West Pakistan, Pakistan Acad. Rural Develop, 64; co-auth, A strategy for a comparative study of local government, Thai J. Pub. Admin, 10/64; auth, Authority and administrative responsiveness, Philippine J. Pub. Admin, 7/67. Address: Dept. of Political Science, University of Hawaii, Honolulu, Hawaii 96822.

FRIEDMAN, DR. HERBERT, b. Brooklyn, N.Y, Oct. 13, 33; m. 58; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Brooklyn Col, 54; M.A, Connecticut, 56, U.S. Pub. Health Serv. res. fel, 59-60, Ph.D, 60. Biochemist, Jewish Hosp. Brooklyn, N.Y, 54-55; asst. psychol, Connecticut, 56-58, instr. statist, 58-59; res. assoc. PSYCHOL, Duke, 60-63; asst. prof, COL. WILLIAM & MARY, 63-67, ASSOC. PROF, 67- AAAS; Psychol. Asn. Discrimination learning; stimulus generalization; comparative psychology; research design. Address: Dept. of Psychology, College of William & Mary, Williamsburg, Va. 23185.

FRIEDMAN, DR. HERBERT LOEB, b. New York, N.Y, Mar. 4, 36. EXPERIMENTAL PSYCHOLOGY. A.B, Columbia, 56; B.A, London, 58, Ph.D.(psychol), 63. RES. SCIENTIST, AM. INSTS. RES, 63- Am. Psychol. Asn; Brit. Psychol. Soc. Perception, especially listening; communication. Publ: Co-auth, Trainability of listening comprehension of speeded discourse, 6/65 & The effect of massed practice on the comprehension of time-compressed speech, 2/68, J. Ed. Psychol; co-auth, The effect of listening aids on the comprehension of time-compressed speech, J. Commun, 9/67. Address: American Institutes for Research, 8555 16th St, Silver Spring, Md. 20910.

FRIEDMAN, DR. HOWARD, b. Boston, Mass, Jan. 28, 17; m. 48; c. 2. CLINICAL PSYCHOLOGY. B.S, Boston, 39; M.A, Columbia, 40; fel, Clark, 47-50, Ph.D.(psychol), 50. Trainee clin. psychol, Vet. Admin, 47-50, asst. chief clin. psychologist, Cushing Vet. Admin. Hosp, Mass, 50-52, Hosp, Boston, 52-53; CHIEF PSYCHOL. SERV, SYRACUSE VET. ADMIN. HOSP, 53-; ASSOC. PROF, DEPT. PSYCHIAT, STATE UNIV. N.Y. UPSTATE MED. CENTER, 62-, FACULTY AFFILIATE, UNIV. HOSP, 66- Lectr, Syracuse, 56-; clin. assoc, Rochester, 57-; Peace Corps field assessment officer, 64-66. Psychol. consult, cardiovasc. work eval. unit, Onondaga County Heart Asn, 56-62. Dipl, Am. Bd. Exam. Psychol. Hypnosis, 59. Fel. Psychol. Asn; fel. Soc. Proj. Tech; fel. Soc. Clin. & Exp. Hypnosis. Psychopathology; projective personality tests; hypnosis. Publ: Structural aspects of schizophrenia responses to auditory stimuli & Perceptual regression in schizophrenia, J. Genetic Psychol; A comparison of action patterns of schizophrenic and normal adults, J. Clin. Psychol. Address: 316 Southfield Dr, Fayetteville, N.Y. 13066.

FRIEDMAN, DR. IRA, b. New York, N.Y, Apr. 29, 26; m. 50. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 48; Ph.D.(clin. psychol), Western Reserve, 53. Chief psychologist, CLEVELAND PSYCHIAT. INST, 52-62, DIR. LAB. PSYCHOSOC. RES, 62- Private practice, 54-; lectr, Western Reserve, 57, fel, dept. surg, Univ. & Cleveland Metrop. Gen. Hosp, 60-62; prog. dir, Nat. Inst. Ment. Health proj. grant, 63- Consult, Personnel Res. & Develop. Corp, 56-57. Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. U.S.N, 44-46. Psychol. Asn; Soc. Proj. Tech. Socioenvironmental factors in hospital treatment of the mentally ill; psychotherapy; projective tests as measuring instruments; community mental health; epidemiology of mental illness. Publ: Phenomenal, ideal and projected conceptions of self, J. Abnorm. & Soc. Psychol; co-auth, Systematic underestimation in reported mental hospital readmission rates, Am. J. Psychiat, 8/64; Intermittent patienthood: the hospital career of today's mental patient, Arch. Gen. Psychiat, 4/66. Address: Cleveland Psychiatric Institute, 1708 Aiken Ave, Cleveland, Ohio 44109.

FRIEDMAN, DR. IRVING S, b. New York, N.Y, Jan. 31, 15; m. 38; c. 3. INTERNATIONAL ECONOMICS & FINANCE. A.B, City Col. New York, 35; fel, Columbia, 37-38, M.A, 38, Ph.D, 40. Asst. to trade cmnr, Govt. India, 40-41; div. monetary res, U.S. Dept. Treasury, 41-46; asst. dir, 46; chief, U.S. & Can. Div. Int. Monetary Fund, 46-48, asst. to dep. managing dir, 49-50, dir. exchange restrictions, 50-64; ECON. ADV. TO PRES. & MEM. PRES. COUN, INT. BANK RECONSTRUCT. & DEVELOP, 64-, CHMN. ECON. CMT, 65- Treas. rep. to Mid. East, 44; acting financial attaché, U.S. Embassy, China, 44. Econ. Asn; Soc. Int. Develop.(treas, 64-). International economics problems and relations; monetary analysis and policy; foreign exchange; policy and practices; commercial policy; international financial institutions. Publ: In defence of development, Chatham House, 66; International problems of economic development, Can. Polit. Sci. Asn, 67; Exchange controls, 1959. Address: International Bank for Reconstruction and Development, 1818 H St. N.W, Washington, D.C. 20433.

FRIEDMAN, DR. JEWEL LINDER, b. Brooklyn, N.Y, Aug. 13, 95; m. 26. PSYCHOLOGY. B.S, N.Y. Univ, 30, M.A, 32, Ph.D.(col. adv. work, clin. psychol), 36. Dean of girls adv. & testing, New Utrecht High Sch, N.Y, 25-51; CHIEF PSYCHOLOGIST, NEUROMUSCULAR CLIN, JEWISH HOSP. OF BROOKLYN, 59-, assoc. psychologist, neuropsychiat. dept, 47- Mem, ed. cmn, UN, 56- Psychol. Asn; fel. Int. Coun. Psychologists. Education; clinical psychology; use of projective techniques. Publ: Character education in the secondary schools; College advisory work in the secondary schools; Use of projective techniques in secondary schools. Address: 2 Fifth Ave, Apt. 3P, New York, N.Y. 10011.

FRIEDMAN, DR. JOSEPH, b. Philadelphia, Pa, Nov. 7, 28; m. 51; c. 2. CLINICAL PSYCHOLOGY. A.B, Lafayette Col, 49; M.Ed, Temple, 51, Ph.D, 59. Intern clin. psychol, Massillon State Hosp, Ohio, 50; psychol. exam, Camden Sch. Psychol. Clin, 51-53; instr. psychol, Temple, 56-58, adj. asst. prof, 58-59; supv. psychologist, Phila. Psychiat. Hosp, 59-61; chief psychologist, Phila. Psychiat. Center, 61-64; EXEC. DIR. MENT. HEALTH CENTER CHILD GUID, 65- Trainee, Vet. Admin. Clin, Phila, 58-59, staff psychologist, 59; res. clin. psychologist, behav. res. unit, Home Jewish Aged, 64-65. U.S.N, 53-56, Res, 56-62, Lt.(jg). Psychol. Asn. Psychodynamics of obesity; projectives as used in diagnosis; dynamic understanding and prediction of course in treatment; family dynamics and psychotherapy; dynamics revealed through early memories. Publ: Weight problems and psychological factors, J. Consult. Psychol; co-auth, Early recollections of schizophrenia and depressed patients, J. Individual Psychol, 62 & Koppitz' bender scoring system and brain injured children, J. Clin. Psychol, 66. Address: 5730 Woodbine Ave, Philadelphia, Pa. 19131.

FRIEDMAN, PROF. JULIAN R(ICHARD), b. New York, N.Y, June 2, 20; m. 49; c. 2. POLITICAL SCIENCE. S.B, Harvard, 42; M.A, Fletcher Sch. Law & Diplomacy, 43; Ph.D, California, 57. Admin. asst, U.S. Dept. State, Wash, D.C, 43-45; asst. secy, UN Conf, San Francisco, Calif, 45; labor attaché for China, Am. Consulate-Gen, Shanghai, 45-46; lectr. colonial admin, sch. econ, London, 48-51; lectr. polit. sci, California, 52-57; ASSOC. PROF. POLIT. SCI. & DIR. LONDON PROG, SYRACUSE, 57- Consult, N.Y. State Ment. Health Planning Cmt, 64-66; UN Seminar Apartheid, 66-67. AAAS; Polit. Sci. Asn; Brit. Sociol. Asn. Management of empires; British Africa; voluntary sickness insurance and prepaid medical care. Publ: Co-auth, Background information on apartheid, UN, 66-67; Africa: wind of change, In: Contemporary civilization; East African diplomacy, African Studies Asn, 65. Address: 122 Westminster Ave, Syracuse, N.Y. 13210.

FRIEDMAN, DR. LAWRENCE JACOB, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FRIEDMAN, LLOYD K(LING), b. Lemonville, Tex, Oct. 15, 07; m. 59. ACTUARIAL SCIENCE. B.A, Rice Inst, 28; M.A, Michigan, 29. Actuarial clerk, Great South. Life Ins. Co, 30-37, asst. actuary, 38-46, assoc. actuary, 47-51; actuary, Girard Life Ins. Co, 51-52; CONSULT, ACTUARY, 52- Mem, actuarial adv. cmt, State Bd. Ins, 57-60. U.S.A.A.F, 43-45. Soc. Actuaries; Statist. Asn; Acad. Actuaries. Actuarial science as applied to life insurance and pensions. Address: 5026 Longmont, Houston, Tex. 77027.

FRIEDMAN, DR. MERTON H(IRSCH), b. Boston, Mass, Apr. 12, 25; m. 55. PSYCHOLOGY. B.S, Col. of William & Mary, 45; M.A, Pennsylvania, 47; U.S. Pub. Health Serv. fel, Illinois, 51-52, Ph.D.(psychol), 52. Intern clin. psychol, State Hosp, Conn, 47-48; trainee, Vet. Admin. Ment. Hyg. Clin, Phila, 52-53; staff clin. psychologist, Vet. Admin. Hosp, Boston, Mass, 53-59, chief psychologist, Providence, 59-62; Brookline Ment. Health Center, Mass, 62-64; vis. Fulbright lectr. psychol, Lund, Sweden, 64-66; dir. clin. serv, Jewish Voc. Serv, Milwaukee, Wis, 66-67; CHIEF PSYCHOL. SERV, VET. ADMIN. HOSP, EAST ORANGE, N.J, 67- Lectr, Marquette, 66-67; N.J. Col. Med. & Dent, 68- Psychol. Asn. Experimental projective techniques; application of learning theory to psychotherapy; symptom formation in psychosomatic illness. Publ: On the nature of regression in aphasia, Arch. Gen. Psychiat, Am. Med. Asn; Sensation, perception and symptom formation, Perceptual & Motor Skills; co-auth, Body-image variability in peptic ulcer, Arch. Gen. Psychiat, Am. Med. Asn, 67. Address: Psychology Service, Veterans Administration Hospital, East Orange, N.J. 07019.

FRIEDMAN, PROF. MILTON, b. New York, N.Y, July 31, 12; m. 38; c. 2. ECONOMICS. A.B, Rutgers, 32; A.M, Chicago, 33; Ph.D.(econ), Columbia, 46; LL.D, Rikkyo Univ, Japan, 63; hon. LL.D, Kalamazoo Col, 68. Assoc. economist, Nat. Resources Cmt, 35-37; vis. prof. econ, Wisconsin, 40-41; prin. economist, div. tax res, U.S. Treas. Dept, 41-43; assoc. dir. res, statist. res. group, div. war res, Columbia, 43-45; assoc. prof. econ. & statist, Minnesota, 45-46; ECON. CHICAGO, 46-48, PROF, 48- Mem. res. staff, Nat. Bur. Econ. Res, 37-46, 48-; Fulbright lectr, Cambridge, 53-54; Ford Found. faculty fel, 62-63; Wesley Clair Mitchell vis. prof, Columbia, 64-65. Mem. adv. cmt, Am. Enterprise Asn. Am. Econ. Asn.(Clark medal, 51, pres, 67); fel. Am. Statist. Asn; fel. Economet. Soc; fel. Inst. Math. Statist; Royal Econ. Soc. Cyclical behavior of monetary and banking phenomena; consumption; economic theory. Publ: A thoery of the consumption function, Princeton, 57; Capitalism and freedom, Univ. Chicago, 62; co-auth, A monetary history of the United States, 1867-1960, Princeton, 63. Address: Dept. of Economics, University of Chicago, Chicago, Ill. 60637.

FRIEDMAN, DR. MONROE PETER, Psychol, see 10th ed, Soc. & Behav. Vols.

FRIEDMAN, DR. MORTON P(HILBERT), b. South Bend, Ind, Apr. 19, 32; m. 56. PSYCHOLOGY. B.A, Indiana, 54, Ph.D.(psychol), 62; M.A, Ohio State, 58. Asst. prof. PSYCHOL, CALIFORNIA, LOS ANGELES, 61-66, ASSOC. PROF, 66- NATO res. fel, Cambridge, 67-68. U.S.A.F, 54-56, Capt. Inst. Math. Statist; Psychomet. Soc; Psychol. Asn; Psychonomic Soc. Individual differences; motor skills; learning; mathematical models; statistics; perception, mathematical psychology. Address: Dept. of Psychology, University of California, 405 Hilgard Ave, Los Angeles, Calif. 90024.

FRIEDMAN, DR. MURRAY, b. Sept. 15, 26; m. 49; c. 3. RACE RELATIONS. B.A, Brooklyn Col, 48; M.A, N.Y. Univ, 49; Ph.D, Georgetown, 58. Historian, Off. Chief Mil. Hist, 49-51; Va-N.C. dir, Anti-Defamation League B'nai B'rith, 54-59; PA. AREA DIR, AM. JEWISH CMT, 59-; TEACHER MINORITY GROUPS, LA SALLE COL, 67- U.S.M.C, 45. Hist. Asn. American political and social history; civil rights. Publ: Virginia Jewry and desegregation, Commentary, 1/59; Desegregation: white liberal retreat, Atlantic Monthly, 1/63; Kensington, U.S.A, La Salle Quart, 1/68. Address: 610 Boyer Rd, Cheltenham, Pa. 19012.

FRIEDMAN DR. NEIL, b. Philadelphia, Pa, Feb. 15, 40; m. 63; c. 1. SOCIAL PSYCHOLOGY. B.A, Brandeis, 61; Ph.D.(psychol), Harvard, 65. Instr. psychol, Miles Col, 65-66, dir. soc. sci, 66-67; res assoc. soc. res. & asst. prof. humanities, Tuskegee Inst, 67-68; ASST. PROF. SOCIOL, BRANDEIS, 68- Psychol. Asn; Soc. Psychol Study Soc. Issues. Psychological experiment as social interaction; experimenter bias; Negro identity; civil rights movement. Publ: The social nature of psychological research, Basic Books, 67; James Baldwin and psychotherapy, Psychotherapy, 66; co-auth, Experimenter bias, J. Proj. Tech, 66. Address: Dept. of Sociology, Brandeis University, Waltham, Mass. 02154.

FRIEDMAN, DR. NORMAN L, b. Kansas City, Mo, Sept. 6, 36. SOCIOLOGY. B.S, Missouri, 57, M.A, 58, Ph.D.(sociol), 65; George Peabody Col, 59-60; fel, Missouri, Kansas City, 62. Instr. sociol, Missouri, 61-62; asst. prof. ed, Southern California, 64-67; fel. contemporary Jewish studies, Brandeis, 67-68; ASSOC. PROF. SOCIOL, CALIF. STATE COL. LOS ANGELES, 68- Proj. grant, Nat. Found. Jewish Culture, 67-68. U.S.A, 57-

58, Res, 58-63. Sociol. Asn; Soc. Study Social Probs. Sociology of education; sociology of professions; sociology of racial and ethnic relations. Publ: Comprehensiveness and higher education, Am. Asn. Univ. Prof. Bull, 12/66; The subject matterist orientation toward field of academic specialization, Am. Sociologist, 2/67; Career stages and organizational role decisions of teachers in 2 public junior colleges, Sociol. Ed, summer 67. Address: Dept. of Sociology, California State College at Los Angeles, Los Angeles, Calif. 90032.

FRIEDMAN, DR. RICHARD B, b. Detroit, Mich, Oct. 19, 35; m. 60; c. 2. POLITICAL SCIENCE. B.A, Kenyon Col, 57; Soc. Sci. Res. Coun. fel, London Sch. Econ, 60-61; Ph.D.(polit. sci), Hopkins, 63. ASST. PROF. POLIT. SCI, Pittsburgh, 62-67; STATE UNIV. N.Y. BUFFALO, 67- Polit. Sci. Asn. Political philosophy. Publ: A new exploration of Mill's essay on liberty, Polit. Studies, 10/66. Address: Dept. of Political Science, State University of New York at Buffalo, Ridge Lea Rd. Campus, Buffalo, N.Y. 14214.

FRIEDMAN, PROF. ROBERT S(IDNEY), b. Baltimore, Md, Mar. 1, 27; m. 53; c. 2. POLITICAL SCIENCE. A.B, Hopkins, 48; A.M, Illinois, 50, Babcock fel. 51-52, Ph.D.(polit. sci), 53. Res. asst, bur. gov. res, Maryland, 53-55, instr. govt. & politics, 55-56; govt, La. State, 56-61; res. assoc, Inst. Pub. Admin, Michigan, 61-67, acting dir, 67-68, assoc. prof. POLIT. SCI, 61-66, prof, 66-68; PROF. & HEAD DEPT, PA. STATE, 68- U.S.A, 45-46. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; urban politics; political process; major program change in three urban services; the influence of the professional bureaucracy in program change in urban public transportation. Publ: Co-auth, Government in metropolitan New Orleans, Tulane Univ. Series Polit. Sci, Vol. 6, 59; auth, The Michigan constitutional convention and administration organization, Inst. Pub. Admin, Univ. Mich, 63; State highway politics, In; Politics in American states, Little, 65. Address: 129 Sparks Bldg. Pennsylvania State University, University Park, Pa. 16802.

FRIEDMAN, DR. SAMUEL H(ERMAN), Psychol, see 10th ed, Soc. & Behav. Vols.

FRIEDMAN, SIDNEY, b. New York, N.Y, Feb. 13, 17; m; c. 2. PSYCHOLOGY. B.S, Long Island, 35; A.M, Columbia, 37. Res. psychologist, Vet. Admin, 46-50; head psychol. res. br, personnel res. div, Bur. Naval Personnel, D.C, 50-66; SPEC. ASST. RES, OFF. ASST. SECY. NAVY (M&RA), 66- Instr, George Washington, 57-61. U.S.A.A.F, 43-45. Psychol. Asn. Personnel and industrial psychology; training and administration. Address: 810 Hyde Court, Silver Spring, Md. 20902.

FRIEDMAN, DR. STANFORD B, b. Seattle, Wash, June 28, 31; m. 56; c. 3. PEDIATRICS. B.A, Antioch Col, 53; fel, Rochester, summers, 54-56, M.D, 57. Intern pediat, Mass. Gen. Hosp, 57-58, asst. resident & teaching fel, 58-59; chief resident & teaching fel, Mass. Gen. Hosp. & Harvard, 59-60; clin. assoc, adult psychiat. br, Nat. Inst. Ment. Health, 60-62, asst. resident psychiat, 61-62; instr. pediat, SCH. MED. & DENT, ROCHESTER & STRONG MEM. HOSP, 62-63, sr. instr. PEDIAT. & PSYCHIAT, 63-64, ASST. PROF, 64-, ASSOC. PEDIATRICIAN & PSYCHIATRIST, 64-, DIR. ADOLESCENT CLIN, 63-, asst. pediatrician & psychiatrist, 62-64. Mem. courtesy staff, Emerson Hosp, Concord, Mass, 59-60; mem. active attend. staff, Children's Hosp, Wash. D.C, 61-62; pediat. consult, Residential Treatment Center, 63- Benjamin Rush Student Psychiat. award, sch. med. & dent, Rochester, 57; Nat. Inst. Ment. Health proj. grant, 62-65; Nat. Insts. Health proj. grant, 65-68 & res. career develop. award, 62-72; John & Mary R. Markle scholar. acad. med, 65-67. Dipl, Am. Bd. Pediat, 63. U.S.P.H.S, 60-62, Sr. Asst. Surg. Fel. Acad. Pediat; Soc. Res. Child Develop; Soc. Pediat. Res. Psychosomatic medicine. Publ: Co-auth, Behavioral observations in parents anticipating the death of a child, Pediatrics, 32:610; Psychologic factors and resistance to infectious disease, Pediat. Clin. N.Am, 13:315; Adrenocortical response to novelty and noxious stimulation, Neuroendocrinology, 2:209. Address: Dept. of Pediatrics, University of Rochester, Medical Center, Rochester, N.Y. 14620.

FRIEDMAN, WILLIAM F(REDERICK), Cryptol, Technol, see 11th ed, Phys. & Biol. Vols.

FRIEDMANN, PROF. JOHN, b. Vienna, Austria, Apr. 16, 26; nat; m. 48; c. 1. ECONOMICS. M.A, Chicago, 51, Ph.D, 55. Indust. economist, Tenn. Valley Authority, 52-55; adv. regional planning, Int. Coop. Admin, 55-58, chief, econ. develop. br, Korea, 58-61; assoc. prof. regional planning, Mass. Inst. Tech, 61-65; DIR. FORD FOUND. ADV. PROG. URBAN & REGIONAL DEVELOP, CHILE, 65- Vis. prof, Cath. Univ. Chile, 66- Mil. Intel, 44-47, 1st Lt. Econ. Asn; Regional Sci. Asn.(v.pres, 67-68). Spatial organization of economies in process of growth; role of cities in economic growth; regional economic development; planning theory. Publ: Co-auth, Regional development and planning, 64 & Regional development policy, 66, M.I.T. Press; Venezuela: From doctrine to dialogue, Syracuse Univ, 65. Address: Ford Foundation, Santo Domingo 504, Of. 81, Santiago, Chile.

FRIEDRICH, PROF. CARL J(OACHIM), b. Leipzig, Germany, June 5, 01; nat; m. 24; c. 4. POLITICAL SCIENCE. Ph.D, Heidelberg, 25, hon. Dr.jur.utr, 51; hon. A.M, Harvard, 41; LL.D, Grinnell Col, 53 & Duke, 63; D.H.L, Columbia, 54; L.H.D, Colby Col, 63; hon. Dr. & rer. pol, Padua, 64. Lectr. govt, HARVARD, 27, asst. prof, 27-32, assoc. prof, 32-37, prof, 37-56, EATON PROF. SCI. OF GOVT, 56-, dir. sch. overseas admin. & civil affairs training sch, 43-45. Bacon prof, Paris, 55; vis. prof, Heidelberg, 50, prof, univ. & dir. inst. polit. sci, 56- Constitutional adv, P.R. Govt; govt. affairs adv. to mil. gov, Germany, 46-48. Soc. Polit. & Legal Philos; Hist. Asn; Am. Acad. Arts & Sci; Polit. Sci. Asn. (pres, 63); Int. Polit. Sci. Asn. (pres, 67); Int. Inst. Polit. Philos.(pres-elect, 67). Publ: Constitutional government and democracy; Man and his government; Philosophy of law in historical perspective. Address: Dept. of Government, Harvard University, Cambridge, Mass. 02138.

FRIEDRICH, PROF. PAUL (WILLIAM), b. Cambridge, Mass, Oct. 22, 27; m. 66; c. 3. ANTHROPOLOGY, LINGUISTICS. A.B, Harvard, 50, A.M, 51; Ph.D, Yale, 57. Instr. anthrop. & sociol, Connecticut, 56-57; anthrop, Harvard, 57-58; jr. ling. scholar, ling. inst, Deccan Col, India, 58-59; asst. prof. anthrop, Pennsylvania, 59-62; assoc. prof. ANTHROP. & LING, CHICAGO, 62-66, PROF, 66- Soc. Sci. Res. Coun. res. grant, 66-67; summers, vis. asst. prof, ling. prog, Michigan, 60 & 61, vis. assoc. prof, Indiana, 64. U.S.A, 45-46. Anthrop. Asn; Ling. Soc. Language and culture; Russian culture; descriptive linguistics; Tarascan language and culture; political leadership and factionalism. Publ: Assumptions underlying Tarascan political homicide, Psychiatry, 62; A Mexican Cacicazgo, 65 & Proto-Indo-European kinship, 66, Ethnology. Address: Dept. of Anthropology, University of Chicago, 1126 E. 59th St, Chicago, Ill. 60637.

FRIEDRICHS, PROF. ROBERT W(INSLOW), b. Bath, Maine, Feb. 16, 23; m. 51; c. 2. SOCIOLOGY. B.A, Oberlin Col, 46; M.A, Wisconsin, 52, Ph.D. (sociol), 57. Instr. Eng, Oberlin-in-China, 46-48; SOCIOL, Columbia, 53-54; asst. prof, Elmira Col, 54-57; assoc. prof, DREW, 57-65, PROF, 65- Victoria Found. consult, 66- Mem. bd. adv, bur. res. & surv, Nat. Coun. Churches, 61-62. Fel. Sociol. Asn; Soc. Sci. Study Relig; Psychol. Asn; Soc. Study Social Probs; Int. Sociol. Asn. Publ: Alter vs. ego: an exploratory assessment of altruism, Am. Soc. Rev, 8/60; Choice and commitment in social research, Am. Sociol, Winter 67; Black aggression, Yale Rev, spring 68. Address: Dept. of Sociology, Drew University, Madison, N.J. 07940.

FRIEDSAM, PROF. H(IRAM) J(OHNSON), b. New York, N.Y, Mar. 14, 20; m. 47; c. 2. SOCIOLOGY. B.A, Baylor, 39; M.A, Texas, 40, univ. fel, 41, Ph.D.(sociol), 50. From asst. prof. to PROF. ECON. & SOCIOL, NORTH TEXAS STATE, 48-, DIR. DEPT, 54- U.S.M.C, 42-45, Maj. Sociol. Asn; Soc. Study Social Probs; Gerontol. Soc. Social theory; gerontology. Publ: Co-auth, A comparison of self and physicians health ratings in an older population, 63 & Resident and relative views of involvement in admissions to two homes for the aged, 64, J. Health & Human Behavior; Adjustment of residents of two homes for the aged, Soc. Probs, 64. Address: Box 6152, North Texas Station, Denton, Tex. 76203.

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FROST, PROF. CARL F(REDERICK), b. Portland, Ore, Oct. 5, 14; m. 43; c. 4. PSYCHOLOGY. B.A, Ore. State Col, 39; M.A, Oregon, 41; fel, Clark, 41-42, 45-46, Ph.D.(psychol), 48. Res. assoc. & instr, Mass. Inst. Tech, 46-49; asst. prof. PSYCHOL, MICH. STATE, 49-50, from assoc. prof. to PROF, 50- Res. prof, sch. bus. admin, São Paulo, 58-60; prof, Nigeria, 64-66. U.S.N.R, 42-46. Psychol. Asn; Indust. Rels. Res. Asn. Executive development; supervisory and leadership selection and training. Publ: Executive skills and their development, Industria: Manifest structure analysis of information files, J. Clin. Psychol. Address: 410 Cowley St, East Lansing, Mich. 48823.

FROST, DR. LAURENCE L(EONARD), b. North Platte, Nebr, Feb. 18, 25; m. 56; c. 2. CLINICAL PSYCHOLOGY. Ph.D.(psychol), Denver, 52. Asst. dir. psychol. servs. children, Denver, 50-51, lectr. psychol, 51-53; clin. psychologist, psychosomatic med, med. sch, Colorado, 51-53, instr. med. psychol, 52-53; acting chief, br. electroencephalog. & chief, sect. clin. psychol, Nat. Inst. Neurol. Diseases & Blindness, Nat. Insts. Health, 53-57; acting dir, child guid. clin, Juvenile Court, 57-58, dir, 58-63; RES. PSYCHOLOGIST, ST. ELIZABETHS HOSP, WASH, D.C, 63- AAAS; Psychol. Asn; Acad. Neurol. Learning; memory; perception; delinquency; treatment. Address: 11214 Ashley Dr, Rockville, Md. 20853.

FROST, DR. MELVIN J, b. Salt Lake City, Utah, Aug. 14, 20; m. 52; c. 6. GEOGRAPHY. B.S, Arizona State, 59; M.S, Brigham Young, 61; Ph.D.(geog), Florida, 64. Instr. phys. sci, Florida, 61-64; assoc. prof. GEOG, Southern Mississippi, 64-65; ASST. PROF, ARIZONA STATE, 65- Nat. Coun. Geog. Edn; Asn. Am. Geog; Asn. Latin Am. Studies. Latin America; homesteading in the intermountain west and on colonization and land settlement projects in Guatemala. Publ: Recent homesteading in San Juan County Utah, South. Quart, 4/65; La forma de Poblamiento en Guatemala y los abstaculos Culturales, Union, Int. Geogr. Conf, 8/66. Address: Dept. of Geography, Arizona State University, Tempe, Ariz. 85281.

FROST, DR. REUEL B(RYAN), b. Bonham, Tex, Mar. 5, 97; m; c. 3. GEOGRAPHY. A.B, Oklahoma, 24; Ph.M, Wisconsin, 28, Ph.D.(geog), 32. Instr. geol. & geog, Oberlin Col, 29-35, asst. prof. geog, 35-41, assoc. prof, 41-48, prof. geol. & geog, 48-63, head dept, 41-44, 49, 52-55, chmn. dept, 61-62; RETIRED. U.S.N.R, 17-19, Ens. Asn. Am. Geog; Coun. Geog. Ed. Regional geography of Ohio; conservation of natural resources; history of settlement in the Greer county strip, Oklahoma; glacial geology in Ohio and Pennsylvania. Address: 8457 121st St. N, Largo, Fla. 33540.

FROSTIG, DR. MARIANNE B, b. Vienna, Austria. PSYCHOLOGY. A.B, New Sch. Soc. Res, 46; M.A, Claremont Col, 48; Ph.D, Southern California, 55. Dir. rehab, Psychiat. Res. Hosp, Poland, 32-37; DIR, MARIANNE FROSTIG CENTER ED. THER, 47- Lectr, Los Angeles State Col, 55-58; California, Los Angeles, 58-; prof, San Fernando Valley State Col, 65-66; clin. prof, Southern California, 66- Consult. psychologist, Juvenile Hall, Los Angeles, 49-55. Mem, adv. bd, Int. Asn. Children with Learning Disabilities, Inc; adv. exec. coun, div. children with learning disabilities, Coun. Except. Children. Fel. Psychol. Asn; fel. Orthopsychiat. Asn; Soc. Res. Child Develop; fel. Soc. Proj. Tech; Asn. Ment. Deficiency; fel. Int. Coun. Psychol. Assessment and training of developmental functions—sensory-motor, language, perception, higher cognitive processes, social adjustment and emotional development. Publ: Co-auth, The Marianne Frostig developmental test of visual perception, Consult. Psychologists, 64; The Frostig program for the development of visual perception, Follett, 64; An approach to the treatment of children with learning difficulties, In; Learning disorders, Vol. I, Spec. Child, 65. Address: 7257 Melrose Ave, Los Angeles, Calif. 90046.

FROUNFELKER, DR. GEORGE A, JR, b. Trenton, N.J, Dec. 31, 14; m. 37; c. 2. PSYCHOLOGY. Ph.B, Muhlenberg Col, 41; M.A, Lehigh, 53; Ed.D. (psychol), Temple, 62. Foreman & job instr, Trojan Power Co, Pa, 41-43; training officer, Vet. Admin, Phila, 46-47; vet. adminstr, MUHLENBERG COL, 47-49, supvr. guid. clin, 49-51, dir. student personnel serv, 51-53, dir. records placement & counsr, 53-57, REGISTR, 57-, ASST. PROF. PSYCHOL, 65- U.S.A, 43-46, Sgt. Psychol. Asn. Factor analytic study of basic interest patterns of male college students; college drop-outs. Address: Dept. of Psychology, Muhlenberg College, Allentown, Pa. 18104.

FRUCHT, DR. RICHARD, b. Brooklyn, N.Y, Aug. 31, 36. ANTHROPOLOGY. B.A, Brooklyn Col, 58; Michigan, 58-60; Ph.D.(anthrop), Brandeis, 66. ASST. PROF. ANTHROP, Washington State, 63-65; Temple, 65-66; ALBERTA, 66- Anthrop. Asn; Ethnol. Soc. Social, economic and political change in colonial societies; plantation social structure and rural proletarian society; social anthropology of a West Indian working class; sociological consequences of tourism. Publ: Community and context in a colonial society, Univ. Microfilms, 66; Anthropology and the rural masses, Socialist Scholars Conf, 67; A Caribbean social type, Soc. & Econ. Studies, 67. Address: Dept. of Anthropology, University of Alberta, Edmonton, Alta, Can.

FRUCHTER, DR. BENJAMIN, b. New York, N.Y, Aug. 31, 14; m. 43; c. 3. PSYCHOLOGY. A.B, Brooklyn Col, 36; California, 41-42; A.M, Southern California, 46, Ph.D.(psychol), 48. Asst. psychol, Southern California, 46-48; aviation psychologist, res. & develop. squadron, Lackland Air Force Base, 48-49; from asst. to PROF. ED. PSYCHOL. & RES. SCIENTIST, TEXAS, 49- Voc. guid. counsr, Southern California, 45-48. Consult, Dept. Defense, 62-64; NASA, 64-66. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F, 42-45. Fel. AAAS; Soc. Multivariate & Exp. Psychol.(pres, 65-66); Ed. Res. Asn; fel. Psychol. Asn; Psychomet. Soc; Psychonomic Soc. Psychometrics, social, industrial; multivariate methods. Publ: Introduction to factor analysis; Some dimensions of interpersonal relations; Ability patterns in technical training criteria. Address: Dept. of Educational Psychology, University of Texas, Austin, Tex. 78712.

FRUEHLING, PROF. WILMUT GEORGE, b. Johnson, Nebr, Feb. 27, 17; m. 47; c. 3. PSYCHOLOGY. B.A, Wartburg Col, 39; M.A, Nebraska, 44; Ph.D, Iowa, 59. Dir, Lutheran Children's Home, 43-46; PROF. PSYCHOL, WARTBURG COL, 46- Coordinator, N. Cent. Asn. Study Lib. Arts Ed, 63-64. Psychol. Asn. Educational psychology; study of student characteristics; motor learning. Address: Dept. of Psychology, Wartburg College, Waverly, Iowa 50677.

FRUM, DR. HAROLD S(TANLEY), b. Valleyford, Wash, July 8, 08; m. 46. SOCIOLOGY. B.Sc, Bowling Green State, 38; M.A, Ohio State, 39; Ph.D.(sociol), Indiana, 52. Asst. sociol, Indiana, 39-43; instr, Ohio State, 46; asst. prof, Butler, 46-56; lectr, Southern Illinois, 56-58; SUPV. SOCIOLOGIST, DIV. CRIMINOLOGIST, JOLIET DIAGNOSTIC DEPOT, 58- U.S.A, 43-45. Sociol. Asn. Criminology; social problems and aspects of medical care. Publ: Research note on choice and change of medical service, Am. J. Sociol; Field study of family medical experiences, Alpha Kappa Delta Quart; Adult criminal offense trends following juvenile delinquency, J. Criminal Law, Criminol. & Police Sci. Address: 110 Lee St, Manhattan, Ill. 60442.

FRY, DR. CHARLES LUTHER, JR, b. New York, N.Y, Mar. 8, 32; m. 57; c. 2. PSYCHOLOGY. B.A, Haverford Col, 54; Ph.D.(psychol), Rochester, 62. ASST. PROF. PSYCHOL, VIRGINIA, 61- Nat. Insts. Health res. grant, 62-63. U.S.A, 54-56. AAAS; Psychol. Asn; Soc. Res. Child Develop. Development of social behavior in children; perceptual and intellectual development in children; relationship between language and thought; auditory speech monitoring; minimal social games. Publ: Co-auth, The development of role-taking and communication skills in children, Wiley, (in press); auth, Training children to communicate to listeners, Child Develop, 66 & A developmental examination of performance in a tacit coordination game, J. Personality & Soc. Psychol, 67. Address: Dept. of Psychology, University of Virginia, Charlottesville, Va. 22901.

FRY, PROF. EDWARD I(RAD), Phys. Anthrop, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

FRY, DR. FRANKLYN D(EWEY), b. Sallisaw, Okla, Oct. 10, 99; m. 25; c. 2. CLINICAL PSYCHOLOGY. B.Sc, Temple, 29; M.A, Pennsylvania, 33; Ph.D. (clin. psychol), Pa. State, 52. Chief ed. & voc. guid. center, Pa. State, 46-49; chief clin. psychologist, ment. hyg. clin, Vet. Admin. Regional Off, 49-56, dir. psychol. serv, Retreat State Hosp, Pa, 56-64; supvr. psychol. serv, chronic div, Mo. State Hosp, 64-65; dir. psychol. serv, alcoholic div, Del. State Hosp, New Castle, 65-68; CHIEF PSYCHOLOGIST, FERNHOOK MENT. HYG. CLIN, 68- Voc. consult, bur. hearings & appeals, Dept. Health, Ed. & Welfare, 58- U.S.A, 41-46, Lt. Col. Psychol. Asn; Personnel & Guid. Asn; Acad. Polit. & Soc. Sci. Projective techniques; emotional pathology; criminal behavior. Publ: Normative study of the reactions manifested by college students and by state prison inmates in response to the Minnesota multiphasic personality inventory, the Rosenzweig picture frustration study and the Thematic Apperception Test, TAT scoring blank & Manual for scoring the Thematic Apperception Test, J. Psychol. Address: Fernhook Mental Hygiene Clinic, 14 Central Ave, New Castle, Del. 19720.

FRY, PROF. HILARY GLEN, b. Aylesworth, Okla, Aug. 11, 22; m. 47; c. 3. PUBLIC ADMINISTRATION, SOCIAL SCIENCE. B.S, Illinois, 48; M.A, Chicago, 51, Ph.D.(admin. of higher ed), 57. Dean students, Hiram Col, 52-55; dir. res. proj, Am. Hosp. Asn, 56-58; admin. analyst, off. pres, Univ. California, 58-59, lectr. pub. health, sch. pub. health, 59-60; PROF. PUB. ADMIN. & SOC. SCI, CALIF. STATE COL. HAYWARD, 60-, ACTING DIR. INST. SOC. RES. & DEVELOP, 66-, dir. summer session, 60-61, dir. exten, 60-62, asst. to pres, 61-66. Consult, sch. pub. health, California, 60-62; ed. consult, Joint Cmt. Study Ed. for Publ Health, 63-66; consult, sch. pub. health, North Carolina, 64-65; West. Coop. Col, Saskatoon, 66-; U.S. Pub. Health Serv, 67- U.S.N, 43-46, Lt.(jg). Soc. Pub. Admin; Pub. Health Asn. Adjustments made both by individuals and institutions to changing social conditions, especially the changing values of individuals and the adjustments of public health and higher education institutions. Publ: Education and manpower in community health, Univ. Pittsburgh, 67; Operation of state hospital planning and licensing programs, Am. Hosp. Asn, 65. Address: Dept. of Social Science, California State College at Hayward, Hayward, Calif. 94542.

FRYE, PROF. BRUCE BRADFORD, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FRYE, DR. CHARLES E, b. Windsor, Colo, Feb. 7, 33; m. 58; c. 2. POLITICAL SCIENCE, COMPARATIVE POLITICS. B.A, Colorado, 57, M.A, 60; Henry P. DuBois fel, Princeton, 60-61, Gen. Elec. Co. fel, 61-62, Soc. Sci. Res. Coun. fel, 62-63, Ph.D.(polit. sci), 64. Asst. PROF. POLIT. SCI, BRYN MAWR COL, 63-, jr. faculty fel, 66-67. U.S.A, 56-58. Polit. Sci. Asn. Comparative politics in Western Europe, especially Germany and Italy. Publ: Parties and pressure groups in Weimar and Bonn, World Polit, 7/65; Carl Schmitt's concept of the political, Jour. Polit, 12/66; The Third Reich and the Second Republic: national socialism's impact upon German democracy, West. Polit. Quart, (in press). Address: Dept. of Political Science, Bryn Mawr College, Bryn Mawr, Pa. 19010.

FRYE, PROF. HOWARD E(DWARD), b. Ypsilanti, Mich, Feb. 15, 28. GEOGRAPHY. B.S, Eastern Michigan, 51; M.A, Michigan, 54. Instr. GEOG, MEMPHIS STATE, 55-56, ASST. PROF, 56- U.S.A, 51-53. AAAS; Am. Geog. Soc; Asn. Am. Geog; Nat. Coun. Geog. Ed. Geomorphology; physical, regional and economic geography. Address: Dept. of Geography, Memphis State University, Memphis, Tenn. 38111.

FRYE, DR. ROBERT J(OHN), b. Windsor, Colo, Dec. 29, 27; m. 59; c. 1. POLITICAL SCIENCE. A.B, Nebr. Wesleyan, 53; M.A, Florida, 54, Ph.D, 59. Instr. POLIT. SCI, ALABAMA, 56-59, asst. prof, 59-63, ASSOC. PROF, 63-, RES. ASST, BUR. PUB. ADMIN, 56- Public law; urban and metropolitan areas; state government and politics. Publ: Deportation of aliens: an exercise in judicial restraint; Government and labor: the Alabama program; co-auth, City manager system in Alabama. Address: Dept. of Political Science, College of Arts & Sciences, University of Alabama, University, Ala. 35486.

FRYE, DR. ROLAND L(EE), b. Mobile, Ala, Feb. 20, 29; m. 48; c. 3. PSYCHOLOGY. B.S, Southern Mississippi, 55, M.A, 56; Ph.D.(psychol), La. State, 61. Instr. PSYCHOL, Southern Mississippi, 55-56, asst. prof, 56-57, & 58-61; asst, La. State, 57-58, asst. prof, 61-66; PROF, MEMPHIS STATE, 66- Consult, Baton Rouge Refinery, Esso Corp, 64-66; Gulf States Utilities Co, 64-68, Wyandotte Chem. Corp, 66-; Boyce Caterpillar, 67- Psychol. Asn. Person perception; organization development and modification; biographical information data; evaluation of management potential. Address: Dept. of Psychology, Memphis State University, Memphis, Tenn. 38111.

FRYER, DR. FORREST WILLIAM, b. Boyertown, Pa, Oct. 12, 30; m. 55; c. 4. INDUSTRIAL PSYCHOLOGY. B.S, Pa. State, 53; M.S, Maryland, 58, Ph.D. (indust. psychol), 63. Asst. psychol, Maryland, 56-59; personnel res. consult, Raytheon Co, 59-63; manpower planning coordinator, XEROX CORP, 63-65, MGR. PERSONNEL RES. & INFO. PLANNING, 65- Exten. teacher, N.Y. State Sch. Indust. & Labor Rels, Cornell, 63-65; summers, trainee lab. aviation med, Nat. Naval Med. Center, 56, soc. sci. analyst, res. grants & fel. br, Nat. Inst. Ment. Health, 57, res. psychologist, 58. U.S.N, 53-55, Lt.(jg). Psychol. Asn. Psychological techniques and methodology; selection and training; administrative problem solving; manpower planning and utilization. Publ: An evaluation of level of aspiration as a training procedure, Prentice-Hall, 64. Address: Xerox Corp, Xerox Square, Rochester, N.Y. 14603.

FRYER, DR. WILLIAM N(EAL), b. Cincinnati, Ohio, Mar. 10, 20; m. 42; c. 2. PSYCHOLOGY. B.A, Harding Col, 48; M.A, Columbia, 53, Ed.D.(guid. & student personnel admin), 65. Minister, Brooklyn Church Christ, 48-56; asst. prof. psychol, Abilene Christian Col, 56-66, assoc. prof, 66-68, dir. counseling, 57-66; CHIEF PSYCHOL. SERV, ABILENE STATE SCH, 68- Hogg Found, Univ. Texas res. grant, 64- U.S.A.A.F, 41-46, Capt. AAAS; Psychol. Asn; Personnel & Guid. Asn. Counseling; clinical psychology; tests and measurements; personality. Publ: Co-auth, College, classroom, campus and you, W.C. Brown, rev. ed, 59. Address: Psychological Service, Abilene State School, P.O. Box 451, Abilene, Tex. 79604.

FRYKENBERG, DR. ROBERT E, South Asian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FRYLING, A(LBERT) GERALD, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

FRYM, DR. MARCEL, Criminol, see 10th ed, Soc. & Behav. Vols.

FU, PROF. SHANG-LING, b. Swatow, China, Mar. 7, 02; m. 33; c. 3. SOCIOLOGY. B.A, Shanghai, 21; London Sch. Econ, 25-28; fel, Case, 60. Prof. sociol. & chmn. dept. & dean students, Fukien Christian Univ, China, 29-30; prof, Nat. Tsing Hua Univ, 30-32; prof. sociol, chmn. dept. & dir. inst. soc. res, Nat. Sun Yatsen Univ, 32-40; prof. SOCIOL, Nat. Cent. Univ, 40-49; Ling Ying & Chu Hai Cols, 49-50; pres, Kau Yan Col, 50-52; lectr, sch. higher Chinese studies, Univ. Hong Kong & vis. prof, Chung Chi Col, 52-58; PROF, BENNETT COL, 59-, DIR. NON-WEST. STUDIES, 65- Prof, Nat. Normal & Yenching Univs, 30-32; pres, Tientsin Anglo-Chinese Col, 32-33; dep. dir. econ. res. dept, Farmer's Bank of China, 43-49. Consult, univ. cmn, World Student Christian Fedn. Gen. Assembly, Germany, 56. Mem. cmt. vocab. sociol, Ministry Ed, China, 36-42; counsr. planning soc. admin, pop. cmn, Ministry Soc. Affairs, 39-45; chmn, Student Relief Cmt, Hong Kong. Yunnan & Chungking, 39-46; pres, Christian Mission to Chinese Seamen, 52-58; mem. sub-cmt. moral welfare, Soc. Welfare Dept, Hong Kong Govt, 54-58; chmn. united cmt, World Univ. Serv, Hong Kong, 57-58; adv. mem, acad. human rights, Int. Union Cultural Coop, Zurich, 58- Del, World Cong. Sociol, Amsterdam, 56, D.C, 62; Quadrennial Convocation Christian Cols. & Univs. & Int. Conf. Soc. Work, 66. Ed, Chinese Student, 25-26; Soc. Res. Quart, 35-37. Fel. Sociol. Asn; Asia Soc; Int. Sociol. Asn. Publ: Anglo-Chinese dictionary of sociology; Contemporary Chinese sociology, 62 & Founder of the Republic of China & modern sociology, 65, Bennett Col. Address: 805 Plummer Dr, Greensboro, N.C. 27410.

FUCHS, DR. ALFRED H(ERMAN), b. Englewood, N.J, Nov. 29, 32; m. 55; c. 2. PSYCHOLOGY. A.B, Rutgers, 54; M.A, Ohio, 58; Ph.D, Ohio State, 60. Asst. psychol, Ohio, 54-56; Ohio State, 56-59, lab. aviation psychol, 59-60, sr. res. assoc, 60-61; SCIENTIST HUMAN FACTORS SECT, ELEC. BOAT DIV, GEN. DYNAMICS CORP, 61-; ASSOC. PROF. PSYCHOL. & CHMN. DEPT, BOWDOIN COL, 65-, asst. prof, 62-65. AAAS; Psychol. Asn. Experimental psychology; motor skills; graphic symbols and problems of meaning; short term memory; history of psychology. Publ: Progression-regression hypotheses in perceptual-motor skill learning, J. Exp. Psychol; co-auth, Study of graphic language. Address: 5 Longfellow Ave, Brunswick, Maine 04011.

FUCHS, EDMUND F(RANCIS), b. Ridgewood, N.Y, Dec. 25, 13; m. 45; c. 2. PSYCHOLOGY. B.S, St. John's (N.Y), 35; M.A, Fordham, 42. Asst. exam, Civil Serv. Cmn, New York, 36-41, exam, U.S. Civil Serv. Cmn, 41-46; res. psychologist, personnel res. br, Adj. Gen. Off, 46-53, CHIEF selection res. sect, 53-61, mil. selection res. lab, U.S. Army Personnel Res. Off, 61-67, MIL. SELECTION RES. DIV, U.S. ARMY BEHAV. SCI. RES. LAB, 67- Lectr, Catholic Univ, 53-55. Dipl, Am. Bd. Exam. Prfnl. Psychol, 51. Fel. AAAS; Psychol. Asn; Psychomet. Soc. Industrial personnel research. Publ: On the intelligence of soldier criminals, J. Criminal Law & Criminol; Army test scores vs. education since World War I, Am. Psychologist; Analysis of screening standards for insular Puerto Ricans. Address: 2206 Westview Court, Silver Spring, Md. 20910.

FUCHS, DR. ESTELLE, b. New York, N.Y; m; c. 2. ANTHROPOLOGY. B.A, Brooklyn Col, 44; Ph.D.(anthrop), Columbia, 64. Lectr. anthrop, Brooklyn Col, 46-51; teacher, New York Bd. Ed, 54-63; res. assoc, HUNTER COL, 64-66, ASSOC. PROF. ED, 66- Consult, Center Urban Ed, New York, 65-66, Bd. Ed, 67. AAAS; Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Asn. Culture change; Africa; education. Publ: Pickets at the gates, Macmillan, 66; Teachers talk: a view inside urban schools, Doubleday, 68; Innovation at Rough Rock, Saturday Rev, 9/67. Address: 681 E. 24th St, Brooklyn, N.Y. 11210.

FUCHS, PROF. LAWRENCE H, b. New York, N.Y, Jan. 29, 27; m; c. 2. POLITICAL SCIENCE. B.A, N.Y. Univ, 50; Ph.D, Harvard, 55. Instr. polit. sci, Brandeis, 52-55, asst. prof, 55-57, assoc. prof, 57-59, dean faculty, 59-61; Peace Corps rep, Philippines, 61-63; PROF. AM. CIVILIZATION & POLIT, BRANDEIS, 63- Sr. scholar, East-West Center, 65-66. Chmn. Commonwealth Serv. Corps. Cmn, 64-65; v.pres, Ed. Develop. Center, 66-; pres, Self Develop. Group, Inc, 67- U.S.N.R, 44-46. American civilization, ethnecity, values and character; culture and personality. Publ: Hawaii Pono: a social history; John F. Kennedy and American Catholicism, 67 & Those peculiar Americans: the Peace Corps and American national character, 67, Meredith. Address: 9 Ellis Rd, Weston, Mass. 02193.

FUCHS, DR. ROLAND J, b. Yonkers, N.Y, Jan. 15, 33; m. 57. GEOGRAPHY. B.A, Columbia, 54, Ford Found. fel, 56-57; M.A, Clark, 57, Ph.D.(geog), 59. Asst. prof. GEOG, HAWAII, 58-64, ASSOC. PROF. & CHMN. DEPT, 64-, asst. dean col. arts & sci, 65-66, assoc. dean, 66-67. Inter-Univ. Cmt. on Travel grant, Moscow State, 60-61; vis. assoc. prof, Clark, 63-64; Fulbright res. scholar, Tribhuvan Univ, Nepal, 66-67; res. assoc, Ohio State Univ, summer 67. Asst. ed, Econ. Geog, 63-64. AAAS; Asn. Am. Geog; Asn. Adv. Slavic Studies; Regional Sci. Asn; Asn. Asian Studies; Am. Geog. Soc. Regional geography of the Soviet Union; urban geography; statistical methods. Publ: Intraurban variation of residential quality, Econ. Geog, 10/60; Soviet urban geography: an appraisal of postwar research, Ann. Asn. Am. Geog, 6/64. Address: Dept. of Geography, University of Hawaii, Honolulu, Hawaii 96822.

FUCHS, DR. VICTOR R(OBERT), b. New York, N.Y, Jan. 31, 24; m. 48; c. 4. ECONOMICS. B.S, N.Y. Univ, 47; M.A, Columbia, 51, Kazanjian fel, 51-52, Ph.D.(econ), 55. Lectr. int. trade, N.Y. Univ, 50-51, assoc. prof, 59-60; from lectr. to asst. prof. econ, Columbia, 52-59; prog. assoc. econ. develop. & admin, Ford Found, 60-62; mem. res. staff, NAT. BUR. ECON. RES, 62-65, ASSOC. DIR. RES, 65- Vis. prof, City Univ. New York, 67- U.S.A.A.F, 43-46, Lt. Econ. Asn; Statist. Asn. Industrial organization; economic development and theory; economics of health. Publ: Concepts and cases in economic analysis; Changes in the location of manufacturing in the United States since 1929; The growing importance of the service industries, Columbia, 65. Address: 9 Talley Rd, Roslyn, N.Y. 11576.

FUCIGNA, JOSEPH T, b. Flushing, N.Y, Sept. 4, 26; m. 53; c. 3. PSYCHOLOGY. B.S, Union Col.(N.Y), 48; M.A, Fordham, 53. Asst. v.pres. human factors dept, DUNLAP & ASSOCS, INC, 49-63, v.pres. mkt, 63-66, SR. V.PRES. MKT, 66- U.S.N, 44-45. Psychol. Asn; Human Factors Soc. Human factors engineering as applied to the design of complex systems; office and underwater systems; marketing; management of human factors engineering; product development. Address: 8 Huckleberry Dr, Norwalk, Conn. 06850.

FUDGE, COL. RUSSELL O(LIVER), U.S.A(RET), b. Sulphur, Okla, Dec. 22, 10; m. 36; c. 3. POLITICAL SCIENCE. B.J, Missouri, 33; M.A, George Washington, 49, 61-62; U.S. Army War Col, 54. Course dir. int. polit. & for. policy, U.S. Army War Col, 58-62; ASSOC. PROF. POLIT. SCI. & DIR DOUGLAS MacARTHUR ACAD. FREEDOM, HOWARD PAYNE COL, 62-, CARR P. COLLINS JR. CHAIR INT. AFFAIRS, 66- Govt. specialist, Midwest Assembly, 60. Army commendation medal, faculty, Armed Force Sch, 41-42; Army War Col, 58-62. U.S.A, 41-62, Col. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. National strategy; conduct of United States foreign policy; international organization. Publ: Pocket guide to Turkey, Dept. Defense, 53; The foreign policy process, U.S. Army War Col, 61; Paging Colonel Mahan, Army, 62. Address: Dept. of Political Science, Howard Payne College, Brownwood, Tex. 76801.

FUGAL, DR. G(LEN) ROY, b. Pleasant Grove, Utah, Nov. 28, 06; m. 30; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Brigham Young, 29; M.S, Mass. Inst. Tech, 34; Ph.D.(ed. psychol), Yale, 50; Harvard, 53. Plant mgr, L.W. Guild Co, 34-35; supvr. eng. & mfg. training courses, GEN. ELEC. CO, 35-36, radio & TV training courses, 36-38, personnel, Bridgeport Works, 38-52, mgr. personnel, appliance & merchandise dept, 48-52, employ. practices, EXEC. DEPT, 52-60, MGR. PERSONNEL PRACTICES, 60- Lectr, Mass. Inst. Tech, 50-51; Yale, 50-54. Mem. exec. cmt, President's Cmt. Employ. Physically Handicapped; chmn, President's Cmt. Employ; Commerce & Indust. Coun. U.S.A, 35-39, Lt. Psychol. Asn; Mgt. Asn. Personnel research and practices; electrical communications. Publ: Relationship of education to industrial accidents, Harvard Bus. Rev; Stretching rather than increasing technical man-power; Preparation for teaching in industry, Teacher Ed. Quart. Address: 15 Beach Ave, Woodmont, Conn. 06460.

FUGUITT, PROF. GLENN V(ICTOR), b. Clearwater, Fla, Feb. 27, 28; m. 51; c. 2. RURAL SOCIOLOGY. B.A, Florida, 50, fel, 51-52, M.A, 52; fel, Wisconsin, 52-53; Ph.D, 56; Soc. Sci. Res. Coun. fel, North Carolina, 55-56. Asst. prof. RURAL SOCIOL, WISCONSIN, MADISON, 56-61, assoc. prof, 61-66, PROF, 66- Ed, Rural Sociol, 66-68. U.S.A, 46-48. Rural Sociol. Soc; Sociol. Asn; Pop. Asn; Statist. Asn. Rural-urban relationships; population; social statistics. Publ: The city and the countryside, Rural Sociol, 63; The growth and decline of small towns as a probability process, Am. Sociol. Rev, 65; co-auth, Negro-white occupational differences in the absence of discrimination, Am. J. Sociol, 67. Address: 240 Agricultural Hall University of Wisconsin, Madison, Wis. 53706.

FUHR, PROF. BERNARD W(OODROW), b. Bristow, Nebr, July 17, 13; m. 43; c. 2. PSYCHOLOGY. B.S, Nebraska, 40; M.S, Wisconsin, 47, Ph.D, 49. Guid. consult. counseling div, Nebraska, 48-51; dir. student counseling serv, MIAMI (OHIO), 51-61, prof. guid. & counseling & chmn. grad. studies, sch. ed, 61-66, PROF. PERSONNEL & GUID. & CHMN. DEPT, 66- U.S.A, 42-46, Capt. Psychol. Asn; Personnel & Guid. Asn. Guidance and counseling psychology; study skills; reading growth; college level requirements; training of adequate counselors. Publ: Freshman studies; Insurance against failure, Am. Admission Counsrs. J. Address: 128 E. Central, Oxford, Ohio 45056.

FUHRIG, DR. WOLF, b. Schweidnitz, Germany, May 16, 25; U.S. citizen; m. 62; c. 1. POLITICAL SCIENCE, EDUCATION. M.Ed, Miami (Ohio), 53, M.A, 54, Ph.D.(pub, law, govt), Columbia, 66. In-serv. trainee sch. admin, U.S. Off. Ed, D.C, 51-52; teacher, high sch, Ohio, 55-56; from lectr. to asst. prof. soc. sci, Mich. State, 56-67; ASSOC. PROF. POLIT. SCI, MacMURRAY COL, 67- Lectr, Pädagogische Hochsch. Osnabrück, W.Germany, 59; dir, Nat. Defense Ed. Act. Adv. Inst. German Lang. & Culture, Albright Col, 65. Polit. Sci. Asn; Comp. Ed. Soc. Comparative and American government; international relations; political theory; government and education. Publ: Co-auth, Behauptung der Person, Weinheim; Beltz, 63; auth, A social science almanac, Mich. State Univ, 67; A quasi-union: West German University Association, Indust. Rels, 10/65. Address: Dept. of Political Science, MacMurray College, Jacksonville, Ill. 62650.

FULCHER, DR. GLEN D, b. Meridian, Idaho, Mar. 20, 25; m. 45; c. 4. AGRICULTURAL ECONOMICS, FORESTRY. B.S, Idaho, 51; M.S, Wisconsin, 54, Ph.D, 61. Range mgr, U.S. Bur. Land Mgt, 51-55; agr. economist, Agr. Res. Serv, 56-57; asst. prof. agr. econ. & asst. agr. economist, Nevada, 57-63, assoc. prof. & chmn. dept, 63-64; chief range mgt. staff, bur. land mgt, U.S. DEPT. INTERIOR, 64-68, PHYS. SCIENTIST, OFF. WATER RESOURCES RES, 68- Ed. consult. agr. econ, Paraguay, 61-63. U.S.N, 43-45. Soc. Range Mgt; Agr. Econ. Asn. Land economics, especially multiple use of land and water resources from both public and private points of view. Address: Office of Water Resources Research, Office Secretary of Interior, Dept. of Interior, Washington, D.C. 20240.

FULCHER, DR. JOHN S(COTT), b. Washington, D.C, Aug. 8, 18; m. 43. PSYCHOLOGY. B.A, Denison, 39; Ph.D.(psychol), Columbia, 42. Instr. psychol, Ohio Wesleyan, 46; Brown, 46-48; Beloit Col, 48-51; WITH U.S. GOVT, 51- Herrick mem. lectr, Denison, 54; child psychotherapist, Arlington Ment. Health Center, 64-, psychotherapist, alcoholics, 65- U.S.A, 42-46, Lt. AAAS; Psychol. Asn. Personality evaluation of the non-hospitalized individual; training evaluation; programmed instruction. Publ: Voluntary facial expression in blind and seeing children, Arch. Psychol; co-auth, The item analyzer, J. Appl. Psychol. Address: East Hunting Towers, Apt. 18 East Bldg, Alexandria, Va. 22314.

FULCOMER, PROF. DAVID M(ARTIN), b. Gladstone, N.J, Sept. 19, 10; m. 37; c. 3. SOCIOLOGY. A.B, Macalester Col, 32; A.M, Minnesota, 37; Ph.D, Northwestern, 42. Instr. sociol. & asst. to dean men, Macalester Col, 33-37; asst. sociol, Northwestern, 37-38; lectr, 41-42; prof, Drew, 38-50, chmn. div. soc. studies, 47-50; prof. family sociol, Iowa State, 50-62, marriage counsr, student counseling serv, 57-62; head div. appl. arts & sci, TEMPLE BUELL COL, 62-66, PROF. SOCIOL. & DIR. FAMILY STUDIES PROG, 66- Summer fel, Bowman Gray Sch. Med, 66. Consult, Am. Soc. Health Asn, 57- Mem. exec. cmt. & dir, Nat. Cmt. Parent Ed, 46-50; pres, Tri-State Coun. Family Rels, Conn, N.J. & N.Y, 48-50; exec. dir, Iowa Coun. Family Rels, 50-52, pres, 56-58; v.pres, Nat. Coun. Family Rels, 52. Am. Red Cross, 43-45. Fel. Sociol. Asn; Home Econ. Asn; Asn. Marriage Counsr. Family studies; family in medical practice; family life education and counseling; college educated woman and the family; multiple roles of women; sex in American culture. Publ: Bereavement as a field for research, In: Man: a record of anthropological science, 44; co-auth, The professional person and families, J. Home Economics, 12/55; Interdisciplinary marriage counseling in a university counseling service, Marriage & Family Living, 8/61. Address: Temple Buell College, 1800 Pontiac St, Denver, Colo. 80220.

FULKER, EDMUND N(ORMAN), b. Pittsfield, Mass, June 14, 27; m. 48; c. 2. PSYCHOLOGY. B.S, Purdue, 51, M.S, 52. Instr. psychol, Purdue, 52-54; head, U.S. Air Force Reading Lab, 54-57; dir, reading improv. prog, U.S. DEPT. AGR, 57-59, ASST. DIR. GRAD. SCH, 59- Lectr, American Univ, 54-59. U.S.N.R, 45-47. Psychol. Asn; Soc. Pub. Admin. Adult reading improvement; executive and management development. Publ: Decade of progress in college and adult reading improvement; Trends in government sponsored reading improvement programs, Proc. Int. Reading Asn; Using TV to improve adult reading skills, Adult Leadership. Address: 6109 Rivanna Dr, Springfield, Va. 22150.

FULKERSON, PROF. SAMUEL COLE, b. Cedar Rapids, Iowa, Jan. 5, 23; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.A, Iowa, 48, M.A, 51; Ph.D, Texas, 55. Clin. psychologist, U.S. Air Force Sch. Aviation Med, 54-58; asst. prof. PSYCHOL, Pittsburgh, 58-61; assoc. prof, LOUISVILLE, 61-66, PROF, 66-, DIR. CLIN. TRAINING, 61- Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. U.S.A.A.F, 43-45. Fel. Psychol. Asn; Psychonomic Soc. Personality theory; decision theory applications to psychodiagnostic testing; research design and methodology. Publ: Interaction of set, frequency, and tabooness in visual recognition, J. Exp. Psychol; Methodology and research on the prognostic use of psychological tests, Psychol. Bull; Some implications of the new cognitive theory for projective tests, J. Consult. Psychol, 65. Address: Dept. of Psychology, University of Louisville, Louisville, Ky. 40208.

FULKERSON, DR. STEPHEN V, Ancient Near East. & Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FULLBROOK, DEAN EARL S(TANFIELD), Mkt, see 10th ed, Soc. & Behav. Vols, deceased 64.

FULLER, C. DALE, b. Iroquois, S.Dak, Sept. 24, 15; m. 53; c. 3. INTERNATIONAL RELATIONS. A.B, Denver, 37, A.M, 39; cert, Columbia, 49. Teacher, high sch, S.Dak, 37-38; instr. int. rels, Denver, 38-42, asst. prof, 46-50, chmn. dept, int. rels. & dir. soc. sci. found, 53-59; EXEC. V.PRES, FOR. POLICY ASN, 59- Lectr, Barnard Col, Columbia, 48-50; dir. Russian proj, Nat. Asn. Ed. Broadcasters, 51; res, info. & ed. dept, Radio Free Europe, 52. Mem. Coun. For. Rels. U.S.A, 42-46. Polit. Sci. Asn; Adult Ed. Asn. Soviet foreign policy. Publ: Training specialists in international relations. Address: Foreign Policy Association Inc, 345 E. 46th St, New York, N.Y. 10017.

FULLER, DR. CARL WELLINGTON, b. Grass Valley, Calif, Oct. 20, 17; m. 45; c. 3. AUDIOLOGY. Ph.D.(audiol), Northwestern, 59. Asst. prof. speech, Oregon State Col, 46-50; clin. asst. AUDIOL, Northwestern, 50-53; asst. prof, SCH. MED, INDIANA, 53-59, ASSOC. PROF, 59- Speech & hearing consult, Muscatatuck State Sch, Ind, 60- U.S.N.R, 42-45. Speech & Hear-

ing Asn. Psychometry of the deaf; language pathology in children. Address: Audiology & Speech Clinic, Indiana University Medical Center, 1100 W. Michigan St, Indianapolis, Ind. 46202.

FULLER, DR. CECIL E(UGENE), b. Honaker, Va, Apr. 14, 23; m. 47; c. 5. AGRICULTURAL ECONOMICS. B.S, Ohio State, 54, M.S, 55, Ph.D, 60. Asst. agr. econ, Ohio Agr. Exp. Sta, 54-56; asst. instr, Ohio State, 56-58; asst. prof, Tennessee, 58-61, assoc. prof, 61-67; DIR. ECON. RES, PEAVEY CO, 67- Mem. res. cmt, Am. Feed Mfrs. Asn, 67- U.S.A, 42-46. Agr. Econ. Asn. Economics of agricultural marketing; changing structure of grain marketing in the South and the implications of the changes to southern agriculture; foreign market development. Publ: Planning local elevator and feed mill facilities; Credit practices and control of Tennessee farm supply associations; co-auth, Food grain storage program for East Pakistan, Weitz-Hettelsater Engrs, 10/64. Address: Peavey Co, 760 Grain Exchange, Minneapolis, Minn. 55415.

FULLER, PROF. CHARLES E, b. Philadelphia, Pa, Jan. 23, 07; m. 31; c. 2. ANTHROPOLOGY. A.B, Juniata Col, 36; B.D, Garrett Theol. Sem, 38; M.A, Northwestern, 38, Ph.D.(anthrop), 55; dipl, Lisbon, 39. Asst. prin, Kambine Cent. Training Sch, Portuguese E.Africa, 39-42; supt, East. Transvaal Churches & Schs, S.Africa, 42-46; Mrewa Dist. & Cent. Sch, Rhodesia, 46-51; res. fel. archaeol. & anthrop, Mozambique, 51-52; guest prof. anthrop, Garrett Theol. Sem, 52; prof. missions & theol, Mo. Sch. Relig, Univ. Missouri, 53-64; prof. anthrop. & chmn. grad. prog. intercultural studies, Scarritt Col, 64-68; PROF. ANTHROP, GRAD. SCH, ST. JOHN'S (N.Y), 68- Guest prof, Fordham, 54; dir. study-serv. seminar for participants from Baker & Scarritt Col, Botswana, 67. Consult. higher ed, Mozambique & Rhodesia Missions, 61-62; Church World Serv. & World Coun. Churches for needs of Botswana, 66. Anthrop. Asn; African Studies Asn; Acad. Relig. & Ment. Health; Royal African Soc. Application of anthropological principles to the analysis of problems of poverty, family disintegration, delinquency and community disorganization, particularly in areas of rapid social, economic and political change. Publ: Co-auth, Continuity and change in African cultures, Univ. Chicago, 59-61 & Transformation of East Africa, Basic Books, 66. Address: Dept. of Anthropology & Sociology, St. John's University, Jamaica, N.Y. 11432.

FULLER, DENTON ALBERT, b. Harrisburg, Pa, Nov. 7, 07; m. 33; c. 1. ECONOMICS, FINANCE. B.S, Miami (Ohio), 29; M.B.A, Buffalo, 39; dipl, Rutgers, 50. Admin. asst, Mfrs. & Traders Trust Co, Buffalo, N.Y, 29-40; PRES, Citizens Nat. Bank, Wellsville, 40-61; LIBERTY TRUST CO, 61- Lectr, Buffalo, 38-40; Alfred, 52-61; grad. sch. banking, Rutgers, 57- Trustee, Nabac Res. Inst, Ill, 58- Econ. Asn; Statist. Asn; Econ. Hist. Asn; Finance Asn. Systems analysis; operations research in area of electronic data processing and programming. Publ: Mechanization becomes a reality; Data processing and the moderate size bank. Address: Liberty Trust Co, Cumberland, Md. 21502.

FULLER, PROF. DONALD C(OLDWELL), b. Somerville, Mass, July 28, 11; m. 35; c. 2. BUSINESS ADMINISTRATION. B.S, Boston, 34, A.M, 35; D.Ed. (bus. ed), Harvard, 43. Asst. prof. ed. & econ. & in charge undergrad. & grad. bus. ed, Pa. State Col, 43-45; PROF. BUS. ADMIN. & CHMN. DEPT, GA. COL. MILLEDGEVILLE, 45- Business correspondence; business law. Publ: Reading factors in typewriting; Business curriculum in the large urban high school, Am. Bus. Ed. Yearbook. Address: 302 N. Wayne St, Milledgeville, Ga. 31061.

FULLER, DR. DOUGLAS R(AYMOND), b. Campo Seco, Calif, May 8, 09; m. 34; c. 3. ECONOMICS. A.B, Stanford, 28, M.B.A, 30; Ph.D.(econ), George Washington, 47. Investment analyst & v.pres, N.Am. Investment Corp, 30-42; sr. v.pres. BANKING, NORTH. TRUST CO, 46-63, PRES, 63- Consult. prof, Stanford, 37-46. U.S.N.R, 42-46. Finance Asn. Money and banking. Publ: Government financing of private enterprise; co-auth, Investments. Address: Northern Trust Co, 50 S. La Salle St, Chicago, Ill. 60603.

FULLER, DR. EARL INMAN, b. Fife Lake, Mich, Mar. 12, 28; m. 50; c. 5. AGRICULTURAL ECONOMICS. B.S, Mich. State, 55, M.S, 57; Ph.D. (agr. econ), Minnesota, 65. Res. asst. agr. econ, Mich. State, 55-57, exten. specialist, 57-58; res. fel. AGR. ECON, Minnesota, 58-60, instr, 60-61; asst. prof, MASSACHUSETTS, AMHERST, 61-65, ASSOC. PROF, 65- Mem, northeast farm mgt. res. cmt, Farm Found, 61-; New Eng. Agr. Econ. Coun. U.S.A, 51-52, Sgt. Agr. Econ. Asn. Farm management and production economics; decision process; linear programming; direct costing; simulation and gaming; derivation of viable data for planning purposes; producers supply response to changes in price. Publ: Co-auth, Alternative solution procedures for mixed integer programming problems, J. Farm Econ, 12/64 & An interregional quadratic programming model for varying degrees of competition, Mass. Agr. Exp. Sta, 11/65; auth, Selection of machine systems by simulation under conditions of uncertainty, Am. Soc. Agr. Engrs. Address: Dept. of Agriculture & Food Economics, University of Massachusetts, Amherst, Mass. 01002.

FULLER, DR. FRANCES FALLON, b. New York, N.Y, Mar. 17, 18; m. 47. PSYCHOLOGY. B.A, State Univ. New York, 39; M.A, N.Y. Univ, 57; Ph.D. (ed. psychol), Texas, Austin, 60. Personnel exec, R.H. Macy Inc, N.Y, 47-48; personnel dir, Hofheimer's Inc, Va, 48-52; counsr, Eagle Pass Independent Sch. Dist, Tex, 54-57; psychologist, TEXAS, AUSTIN, 58-61, asst. prof. ED. PSYCHOL, 61-64, ASSOC. PROF, 64-, res. psychologist, res. & develop. center teacher ed, 65-68. Res. coordinator, Personality, Teacher Ed. & Teaching Behav. Res. Proj, 61-65. Consult, Hogg Found. Ment. Health, 62-68. Teaching excellence award, Univ. Texas, 64. W.A.C, 42-46, Capt. Psychol. Asn; Personnel & Guid. Asn. Psychotherapeutic interaction; affective teacher-pupil interaction; interaction analysis systems. Publ: Climates for growth, Hogg Found, 67; co-auth, Intensive individualization of teacher preparation, In: Yearbook of the Association for Student Teaching, 67; auth, Influence of counseling on teacher openness to pupil feedback, Proc. Am. Psychol. Asn, 67. Address: V Hall 208, University of Texas, Austin, Tex. 78712.

FULLER, PROF. GEORGE ASHER, b. Muscatine, Iowa, Feb. 8, 09; m. 40; c. 3. ECONOMICS. B.S, Iowa State, 34; M.A, Iowa, 39, Mt. States Tel. & Tel. Co. fel. & Ph.D, 53; Georgetown, 43-45. Indust. specialist, War Prod. Bd, 42-43; sr. transportation economist, Hq. U.S. Army Air Forces, 43-44; econ. analyst, United Air Lines, 44-48; assoc. prof. transportation, Southern California, 48-50; PROF. ECON, UTAH, 50- Lectr, California, Los Angeles, 47-48; Merrill Lynch, Pierce, Fenner & Beane fel, 55; Harvard fel, 58; Fulbright lectr, Swedish Sch. Econ. & Helsinki Sch. Econ, 60-61. Consult, Morton Salt Co; Utah Pub. Serv. Cmn. Teaching, consult. & res, N.Z, Australia, Asia, Africa, Europe & Latin Am, 61-67. Soc. Traffic & Transportation; Econ. Asn. Transportation; public utilities; commercial aviation; international trade. Publ: Costs of attracting capital to public utilities, Peerless Pub. Co, 63; Combined transport, Swedish J. Econ; Impact of improved transport on European unity, In: Le collettivita locali e la con costruzione del-l'unita Europa. Address: Dept. of Economics, University of Utah, Salt Lake City, Utah 84112.

FULLER, DR. JOHN L(ANGWORTHY), Physiol, see 11th ed, Phys. & Biol. Vols.

FULLER, DR. PAUL R(AYMOND), b. Oklahoma City, Okla, Jan. 16, 23; m. 46; c. 2. PSYCHOLOGY. A.B, Oklahoma, 47; M.A, Indiana, 49, fel, 49-50, Ph.D.(clin. & exp. psychol), 52. Intern clin. psychol, Vet. Admin, 50-52; asst. prof. clin. psychol. & dir. Ph.D. prog, Fla. State, 52-55; consult, Rohrer, Hibler & Replogle, Ga, 55-57; psychol. & human factors, Swartzlander & Heyer, 57-59; assoc. res. scientist, prin. engr. & head human eng, space tech. dept, Martin Co, Colo, 59-62, chief behav. sci, space systs. div, 62-63; PRIN. STAFF SCIENTIST, DIR. HUMAN FACTORS LAB. & MGR. CONTROL/DISPLAY SYSTS. & SYST. EFFECTIVENESS DEPT, INSTRUMENT DIV, LEAR SIEGLER, INC, 63- Mem. faculty, Opportunity Sch, exten. div, Colorado, 61-62; lectr, Michigan Exten. & Mich. State, 64-; California, Los Angeles, 65. Consult. & supvr, Human Rel. Inst, Fla, 52-55; consult, Fed. Correctional Inst, 53-55; Vet. Admin, 54-55; behavior sci, 64- U.S.A, 43-45. Fel. AAAS; Psychol. Asn; Human Factors Soc; Soc. Psychophysiol. Res; Inst. Aeronaut. & Astronaut. Manned space systems; bioastronautics; advanced design of new systems. Publ: Operant conditioning of a vegetative human organism, Am. J. Psychol; Effects of glutamic acid on test performance, Science; co-auth, General human factors considerations in manned space flight, U.S. Air Force, 61. Address: 421 Plymouth S.E, Grand Rapids, Mich. 49506.

FULLER, DR. RENEE NUNI, b. Mannheim, Germany, Apr. 14, 33; U.S. citizen; wid. PSYCHOLOGY. B.A, Hunter Col, 53; M.A, Columbia, 55; Ph.D. (psychol, econ), N.Y. Univ, 63. Teaching asst, psychol, N.Y. Univ, 57-60; res. scientist, Letchworth Village, Thiells, N.Y, 60-66; proj. dir, Staten Island Soc. Ment. Health, 66-67; CHIEF PSYCHOL. SERV, ROSEWOOD STATE HOSP, MD. DEPT. MENT. HYG, 67- Res. asst, Am. Mus. Natural Hist, New York, 57-58. Consult, Friends of Psychiat. Res, Catonsville, 67- Psychol. Asn. Physiological and psychological bases of behavior with special emphasis on mental retardation and dietary and drug effects. Publ: Phenylketonuria: psychological and developmental evaluation, Prof. Conf. Phenylketonuria & Allied Metab. Diseases, 66. Address: Rosewood State Hospital, Owings Mills, Md. 21117.

FULLER, DR. STEPHEN HERBERT, b. Columbus, Ohio, Feb. 4, 20; m. 51; c. 3. BUSINESS ADMINISTRATION. A.B, Ohio, 41; I.A, Harvard, 43, M.B.A, 47, D.C.S, 58; hon. Ph.D, Manila, 65. Prof. econ. & labor rels, Ohio, 47; bus. admin, BUS. SCH, HARVARD, 47-64, ASSOC. DEAN EXTERNAL AFFAIRS, 64- Consult, various U.S. & Can. Co. U.S.A, 43-46, Capt. Business policy; organizational behavior. Publ: Co-auth, Problems in labor relations, McGraw, 64. Address: Graduate School of Business Administration, Harvard University, Boston, Mass. 02163.

FULLER, DR. WAYNE A(RTHUR), Agr. Econs, Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

FULLERTON, DR. GAIL PUTNEY, b. Lincoln, Nebr, Apr. 29, 27; m. 50, 67; c. 2. SOCIOLOGY. B.A, Nebraska, 49, M.A, 50; Carnegie fel, Oregon, 50-51 & 52-53, Ph.D.(sociol), 54; Doherty Found. grant, 51-52. ASST. PROF. SOCIOL, Fla. State, 57-60; SAN JOSE STATE COL, 63- Sociol. Asn. Social change in underdeveloped countries; the American family as a changing institution. Publ: Co-auth, Normal neurosis, 64 & The adjusted American, 66, Harper; co-auth, Children: in dreams come unexpected responsibilities, In: The challenge to woman, Basic Books, 66. Address: Dept. of Sociology, San Jose State College, San Jose, Calif. 95114.

FULLMER, PROF. DANIEL W(ARREN), b. Ill, Dec. 12, 22; m. 49; c. 1. PSYCHOLOGY, EDUCATION. B.S.E, Western Illinois, 47, M.S.A, 52; Ph.D. (ed, psychol), Denver, 55. Asst. prof. ed, Oregon, 55-57, assoc. prof, gen. ed. exten. & dir. counseling center adults, 57-60, PROF. psychol. & dir. gen. exten. div, 60-66; ED. PSYCHOL, HAWAII, 66- U.S.N, 44-46. Psychol. Asn; Personnel & Guid. Asn.(Nancy C. Wimmer award, 63). Counseling and guidance; teacher education; family counseling and consultation; family as group concept; family programming of individual personality; learning how to learn. Publ: Co-auth, Counseling: content and process, Sci. Res. Assocs, 64, Family consultation, Houghton, 68 & Principles of guidance: a basic text, Int. Textbook, (in press). Address: Dept. of Educational Psychology, 1776 University Ave, University of Hawaii, Honolulu, Hawaii 96822.

FULMER, PROF. JOHN L(EONARD), b. Little Mountain, S.C, Sept. 24, 11; m. 36; c. 2. ECONOMICS. B.S, Clemson Col, 33; M.S, Cornell, 37; Gen. Ed. Bd. fel, Virginia, 37-39, Ph.D, 39; American Univ, 41; Va. Polytech, 47. Asst. prof. agr. econ. & asst. agr. economist, Clemson Col, 33-37; assoc. prof. rural econ, Virginia, 39-41, 45-51; bus. economist, Off. Price Stabilization, Wash, 51-53; assoc. prof. bus. admin, Emory, 53-56, summer, lectr, town & county sch, 54; res. prof. econ, eng. exp. sta, GA. INST. TECH, 56-58, PROF. INDUST. MGT, 58-64, 68-; prof. econ. & dir. Bur. Bus. Res, Kentucky, 64-67. Vis. prof, Int. Harvester Co, 54. Consult, Atlantic Steel Co, 55; U.S. Study Cmn, 59-61; State Dept. Agr. & Labor, Ga; Center Continuing Ed, Georgia, 63-65; bd. regents, Univ. Syst. Ga, 64-65; Bur. Employ. Security, U.S. Dept. Labor, 65-66; Corps Engrs, Ohio River Div, 65-66;

Louisville Cooperage Co, 67; summer, Lockheed Aircraft Co, 61. Mem, Gov. Adv. Coun. State Econ, Va, 48-52. U.S.A, 41-45, Capt. Econ. Asn; Mkt. Asn; Regional Sci. Asn; Planning Asn; Statist. Asn; Soc. Int. Develop. Economic progress of the south; economic development as a general field of study. Publ: State per capita income differentials, 1940 and 1950; Theory and practice of management decision-making with business simulation games; Trends in population and employment in South since 1930 and their economic significance, In: Essays in Southern economic development, Univ. North Carolina, 64. Address: School of Industrial Management, Georgia Institute of Technology, Atlanta, Ga. 30332.

FULMER, DR. ROBERT M, b. Florence, Ala, Oct. 6, 39; m. 59; c. 1. MANAGEMENT, MARKETING. B.A, David Lipscomb Col, 61; M.B.A, Florida, 62; Ph.D.(mgt), California, Los Angeles, 65. Teaching asst. mgt, Florida, 61-62; advert. asst, Proctor & Gamble Co, 62-63; instr. bus. admin, Pepperdine Col, 63-65, chmn. dept, 65-66; ASSOC. PROF. MGT, Fla. State, 66-68; GA. STATE COL, 68- Res. assoc, Nat. Indust. Conf. Bd, 65; res. consult, Fla. Ed. Asn, 66-68; spec. res. assoc, Am. Mgt. Asn, 67-; pres, Mgt. Res. & Serv, Tallahassee, 67-68. Soc. Prfnl. Mgt. Consults; Acad. Mgt; Mkt. Asn. Marketing management and organization; business ethics, policy and social responsibility, business and the humanities; product management. Publ: Managing the product manager, Motivation, Inc, 66; ed, Organizing for new product development, Nat. Indust. Conf. Bd, 66; co-auth, The new managers and the new morality, Bus. Horizons, 68. Address: Dept. of Management, Georgia State College, Atlanta, Ga. 30303.

FULTON, JOSEPH F(RANK), b. Newark, N.J, Apr. 5, 20; m. 54; c. 2. ECONOMICS. B.A, N.Y. Univ, 46, M.A, 48. Instr. econ, N.Y. Univ, 47-49; Michigan State, 49-50; economist, wage & hour div, U.S. Dept. Labor, 50-57, SR. ECONOMIST, Bur. Labor Statist, 57-64; INTERNAL REVENUE SERV, U.S. DEPT. TREAS, 64- U.S.N.R, 41-45. Econ. Asn; Statist. Asn. Economic and demographic forecasting; manpower needs and resources; impact of foreign trade on domestic employment. Publ: Results of the minimum-wage increase of 1950; Retail and non-retail distribution; New job horizons in missile and spacecraft manufacturing. Address: 6544 Placid St, Falls Church, Va. 22043.

FULTON, DR. LEWIS M(acLEOD), JR, Appl. Math, see 11th ed, Phys. & Biol. Vols.

FULTON, PROF. ROBERT, b. Toronto, Ont, Nov. 30, 26; m. 48; c. 3. SOCIOLOGY. A.B, Illinois, 51; M.A, Toronto, 53; fel, Wayne State, 54-57, Ph.D, 59. Instr. SOCIOL, Wayne State, 57; Wisconsin, 57-58; asst. prof, Calif. State Col. Los Angeles, 58-61, assoc. prof, 61-65, PROF, 65-66; MINNESOTA, MINNEAPOLIS, 66- Vis. prof, Osmania, India, 67-68. Consult, Nat. Funeral Dirs. Asn, 58-; sch. med, Southern California, 61- Sociol. Asn; Acad. Psychosom. Med; Soc. Thanatology of French Lang. Social theory; social organization and stratification; attitudes toward and reaction against death in modern American society. Publ: Ed, Death and identity, 65 & Education and social crisis, 67, Wiley; auth, Sociology of death: a neglected area of research, Soc. Forces. Address: Dept. of Sociology, University of Minnesota, Minneapolis, Minn. 55455.

FUNK, DR. DAVID GORDON, b. Oak Park, Ill, Aug. 2, 38. ECONOMICS, FINANCE. B.A, Amherst Col, 60; Ph.D.(econ), Harvard, 65. Asst. prof. econ, Wellesley Col, 63-67; ECONOMIST, JOHN HANCOCK MUTUAL LIFE INS. CO, 67- Lectr, Boston, 67- Consult, New Eng. Life Ins. Co, 64-66. Econ. Asn; Asn. Bus. Econ. Financial market forecasting; labor mobility; portfolio selection; optimization; performance measurement. Publ: International liquidity and the IMF: crisis ahead, 6/65 & Factors keeping secular interest rates from declining, 9/65, Commercial & Financial Chronicle. Address: 145 Pinckney St, Boston, Mass. 02114.

FUNK, DR. ROBERT E, b. Rome, N.Y, Feb. 8, 32; m. 61. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Columbia, 53, A.M, 55, Ph.D.(anthrop), 66; Mid. Am. Res. Inst. fels, Tulane, 56-60. Jr. scientist, STATE ED. DEPT, N.Y. STATE MUS. & SCI. SERV, 60-67, SCIENTIST, 67- Vis. prof, State Univ. N.Y. Albany, 67-, summer adj. prof, 67, adj. instr, Harpur Col, 64. U.S.A, 56-58, Res, 58-61. Fel. Anthrop. Asn; Soc. Am. Archaeol. Archaeology of Lowland Maya; origin and development of Mississippian cultures; Paleo-Indian, archaic and Iroquoian manifestations in the Northeast; prehistory of the Hudson Valley. Publ: The archaic of the Hudson Valley: new evidence and new interpretations, Pa. Archaeologist, 65, issued, 67; The significance of three radiocarbon dates from the Sylvan Lake Rockshelter, Bull. 36, 66 & The Burnt Hill Phase: regional middle woodland at Lake George, New York, Bull. 37, 66, N.Y. State Archaeol. Asn. Address: New York State Museum & Science Service, Albany, N.Y. 12224.

FUNK, DR. RUTH ANNE (JOHNSON), b. Stratford, Conn, Oct. 6, 27; m. 49; c. 2. PSYCHOLOGY. A.B, Syracuse, 47, A.M, 51; Ph.D, Purdue, 55. Psychometrist & counsr. div. ed. reference, Purdue, 52-54, inst. & dir. reading clin, 54-56, res. assoc. spec. ed, Syracuse, 57-58; clin. psychologist, Onondaga County Ment. Health Clin, 58-59; consulting psychologist, 60-65; EXEC. DIR, MENT. HEALTH ASN, ONONDAGA COUNTY, 65- Lectr, humanistic studies center, Syracuse, 68- Supv. clin. psychologist, Adult Ment. Health Clin, Oneida Co, 60-65. Consult, Voc. Rehab, 49-50; Child & Family Serv, 49-51; Jamesville Dewitt Schs, 59-61; film, Ment. Health Asn. Mem, Wagon Wheel Fedn. Bd. Sr. Citizens. Psychol. Asn; Nat. Asn. Ment. Health. Perceptual characteristics of brain-damage and mentally retarded; religion and authority; Rorschach content analysis in psychiatry nosological groupings; reading and brain functions. Publ: Intellectual perceptual and neurological characteristics of mentally retarded adolescents as related to their etiology and sex; Experimental scales used in a study of religious attitudes. Address: 4967 Fayetteville Rd, Manlius, N.Y. 13104.

FUQUA, JOE E(UGENE), b. Marshall Co, Ky, July 17, 28; m. 57. AGRICULTURAL ECONOMICS. B.S, Kentucky, 54, M.S, 56. Instr. agr, Marshall County Bd. Ed, 48-50; Grayson County Bd. Ed, 50; asst. prof. agr. econ, KENTUCKY, 56-58, AREA EXTEN. FARM MGT. SPECIALIST, 68- U.S.A, 50-52, Sgt. Agr. Econ. Asn. Farm management; farm machinery costs and economic analysis of sheep production. Publ: Corn and small grain harvesting costs; Advantages and problems in sheep production, Ky. Agr. Exp. Sta. Bull; co-auth, Bulk fertilizer spreading practices in Kentucky—with special emphasis on three-hopper truck spreader custom services, Univ. Kentucky Agr. Exp. Sta. Bull, 5/63. Address: Cooperative Extension Office, Courthouse, Mayfield, Ky. 42066.

FURBAY, DR. WALTER M, b. Cardington, Ohio, May 27, 20; m. 41; c. 2. ECONOMICS, MARKETING. B.S. Ohio State, 41, M.S, 56, Ph.D.(agr. econ), 60; Bowling Green State, 54; Pennsylvania, 62. Teacher, high schs, Ohio, 41-44, 46-52 & 54-56; salesman, Bankers Life Co, Iowa, 52-54; econ. researcher Ohio Agr. Exp. Sta, 57-60; agr. economist, Campbell Soup Co, N.J, 60-63; farmer coop. serv, U.S. Dept. Agr, 64-68; ASSOC. PROF. BUS. & ECON, KING'S COL.(N.Y), 68- Mem, Madagascar Surv. Team, 66. U.S.N.R, 44-46, Res, 46-67, Lt. Mkt. Asn; Agr. Econ. Asn; Econ. Asn; Rural Sociol. Soc. Changing market structure; cooperative sales; mass marketing; economics of developing regions and countries, especially market-oriented production. Publ: Co-auth, Sale of low cost flowers in supermarkets, Ohio State Univ, 60; co-auth, Bibliography of theses and dissertations on coops, 65 & Assistance in rice and beef cattle development Malagasy Republic, 66, U.S. Dept. Agr. Address: Dept. of Business & Economics, King's College, Briarcliff Manor, N.Y. 10510.

FURCHTGOTT, PROF. ERNEST, b. Zlate Moravce, Czech, Nov. 2, 22; nat; m. 53; c. 3. PHYSIOLOGICAL PSYCHOLOGY. A.B, California, Los Angeles, 46, M.A, 48, Ph.D.(psychol), 50. Asst. prof. PSYCHOL, TENNESSEE, 49-53, assoc. prof, 53-59, PROF, 59- Consult, Vet. Admin; Sch. Aerospace Med, 64-66. Mem. cmt. biol. effects of atomic radiation, Nat. Res. Coun. 63-65; psychopharmacol. study sect, Nat. Insts. Health, 64-67, radiol. animal res. adv. cmt, U.S. Pub. Health Serv, 66-68; U.S. del. to UN Cmt. Effects of Atomic Radiation, 67. U.S.A, 43. AAAS; Psychol. Asn; Radiation Res. Soc; Geront. Soc. Behavioral effects of ionizing radiations; drugs; developmental anomalies; aging. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37916.

FUREY, PROF. JOHN B(ERNARD), b. Chicago, Ill, Jan. 3, 09; div; c. 1. INTERNAL RELATIONS. B.A, Southern California, 47; M.A, Columbia, 49, Ph.D.(int. rels. & orgn), 53. Asst. prof. POLIT. SCI, DILLARD, 54-58, assoc. prof, 58-60, PROF, 60- Summer vis. lectr, Tulane, 57-68. U.S.A, 42-45. Polit. Sci. Asn. Activities of voting blocs in international organizations; political activities of Negroes in New Orleans. Address: Dept. of Political Science, Dillard University, New Orleans, La. 70122.

FURFEY, PAUL HANLY, b. Cambridge, Mass, June 30, 96. SOCIOLOGY, PSYCHOLOGY. A.B, Boston Col, 17; M.A, St. Mary's (Md), 18; Knights of Columbus fel, Catholic Univ, 17-18, Ph.D.(sociol), 26; Berlin & Frankfurt, 31-32; LL.D, Duquesne, 44; L.H.D, St. John's (N.Y), 64. Instr. sociol, CATHOLIC UNIV, 25-31, assoc. prof, 31-40, acting head dept, 34-40, prof. & head dept, 40-66, CO-DIR. & CO-PRIN. INVESTR, BUR. SOC. RES, 59-, EMER. PROF. SOCIOL, 66- Asst. dir. Juvenile Delinquency Eval. Proj, N.Y, 56-61. AAAS; Sociol. Asn; fel. Psychol. Asn; fel. Soc. Res. Child Develop; Ling. Soc; Oriental Soc. History and logic of sociology; psychometrics; statistical methods. Publ: Three theories of society; History of social thought; The respectable murderers, Herder & Herder, 66. Address: Bureau of Social Research, Catholic University of America, Washington, D.C. 20017.

FURLONG, DR. WILLIAM L(EON), b. Garland, Utah, Nov. 14, 36; m. 60; c. 1. POLITICAL SCIENCE. B.A, Utah, 62, fel. & M.A, 63; fel. & Ph.D.(polit. sci), Florida, 67. Res. consult. pub. admin, Inst. Pub. Admin. N.Y, 65-67; ASST. PROF. POLIT. SCI, NEW COL, 67- Polit. Sci. Asn; Latin Am. Studies Asn. Comparative governments; Latin American governments; developing governments; public administration; international relations; public law; local governments in Peru, Colombia and others; political parties in Latin America. Publ: Estudid de la Municipalidad de Huacho, Onrap, Lima, Peru, 5/66. Address: Dept. of Political Science, New College, Sarasota, Fla. 33580.

FURNISS, PROF. EDGAR S(TEPHENSON), JR, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 66.

FURST, PROF. EDWARD J(OSEPH), b. Chicago, Ill, Dec. 23, 19; m. 51; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Chicago, 41, A.M, 47, Ph.D.(ed. psychol), 48. Asst. chief, eval. & exams. div, Michigan, 48-49, chief, 49-56, asst. prof. ed. psychol, 50-56; assoc. prof. psychol, Idaho, 56-61; Ohio State, 61-66; PROF. ED, ARKANSAS, 66- Summer, lectr, Wisconsin, 60. U.S.A, 42-46, Capt. Fel. Psychol. Asn; Ed. Res. Asn; Coun. Measurement in Ed. Measurement and evaluation in education and psychology; psychology of learning and development; educational objectives. Publ: Constructing evaluation instruments; co-auth, Taxonomy of educational objectives; auth, Effect of the organization of learning experiences upon the organization of learning outcomes, J. Exp. Ed. Address: Graduate Education, University of Arkansas, Fayetteville, Ark. 72701.

FURST, DR. HAROLD, b. Chicago, Ill, Nov. 24, 16; m. 55. BUSINESS ECONOMICS. B.S, California, 39, M.B.A, 45; Ph.D.(bus. admin), Stanford, 54. Assoc. bus. admin. & head dept. continuating ed, California, 43-52; regional economist, BANK OF AM, 52-56, asst. v.pres, 56-60, V.PRES, 60- Vis. lectr, Stanford, 51. Consult, U.S. Dept. Army Air Force, 44-45; Hob. Ferguson & Assocs, 45-50; Off. Under Secy. Navy, 46-48; Off. Naval Procurement, 48-50; Safeway Stores, 48-50; spec. consult, California State Senate, 67- Secy, Governor's Bus. Adv. Coun, Calif, 58-67; chmn. cmn, Calif. State Govt. Orgn. & Econ, 63- Econ. Asn; Statist. Asn; Soc. Pub. Admin; Mkt. Asn; Adult Ed. Asn; Inst. Indust. Eng. Regional economics and development; administrative management; adult education. Publ: University organization and administration; California development and prospects, California; Some reflections on democratic administration, Col. & Univ. Address: 34 Arlington Ave, Berkeley, Calif. 94707.

FURSTENBERG, DR. FRANK F, b. Baltimore, Md, Aug. 25, 40; m. 63; c. 1. SOCIOLOGY. B.A, Haverford Col, 61; Ph.D.(sociol), Columbia, 67. Res. asst. SOCIOL, sch, soc. work, Columbia, 63-67, instr, sch. gen. studies,

65-66; ASST. PROF, PENNSYLVANIA, 67- Consult, Sinai Hosp, Baltimore, 66- Sociol. Asn; Nat. Coun. Family Rels; Soc. Study Social Probs. Socialization in childhood and adolescence; deviant behavior in the family. Address: Dept. of Sociology, University of Pennsylvania, Philadelphia, Pa. 19104.

FURTH, PROF. HANS G, b. Vienna, Austria, Dec. 2, 20; nat; m. 54; c. 7. PSYCHOLOGY. M.A, Ottawa (Ont), 54; U.S. Pub. Health Serv. fel, Portland, 59-60, Ph.D, 60. Asst. prof. PSYCHOL, CATHOLIC UNIV, 60-62, assoc. prof, 62-66, PROF, 66- Res. dir. hearing & speech, Children's Hosp, D.C, 60-66. Psychol. Asn. Development of thinking; Piaget's psychology; thinking-language relation; deafness; epistemology. Publ: Thinking without language, Macmillan, 66; Piaget and knowledge, Prentice-Hall, 68. Address: Dept. of Psychology, Catholic University, Washington, D.C. 20017.

FURTH, DR. J. HERBERT, b. Vienna, Austria, Oct. 12, 99; nat; m. 29; c. 2. ECONOMICS. J.D, Vienna, 21; Rockefeller fel, 31-32; Harvard, 38-39. Prof. econ, Lincoln (Pa), 39-43; economist, Bd. Governors Fed. Reserve Syst, 43-49, chief economist, East. European & Near East. Sect, 49-52, West. European & Brit. Commonwealth Sect, 52-56, Int. Financial Opers. Sect, 56-57, assoc. adv, 58-60, adv, 61-64, consult, INT. FINANCE, 64-66; INSTR, FOR. SERV. INST, 66- Lectr, Catholic Univ, 45-50; American Univ, 50-66; vis. prof, Int. Univ. Luxembourg, 60; res. staff, Nat. Bur. Econ. Res, 67- Consult, Int. Bank Reconstruct. & Develop, 49. Austrian Army, 18, Lt. Econ. Asn. International economics; money and credit; economic fluctuations and development. Publ: Economic equilibrium and central banking policies; Theory and policy of foreign aid, German Handbook Pub. Finance; Banking in the United States, In: German Encyclopedia Social Sciences. Address: 7520 Maple Ave, Takoma Park, Md. 20012.

FUSARO, DR. ANTHONY, b. Coventry, R.I, May 29, 37. POLITICAL SCIENCE. B.A, Rhode Island, 58, M.A, 60; Ph.D.(polit. sci), Pa. State, 62. ASST. PROF. POLIT. SCI, Pa. State, 64-66; NORTHERN ILLINOIS, 66- U.S.A.R, 63-64, 1st Lt. Polit. Sci. Asn. Legislative process in parliamentary systems; Australian senate and its role in a federal parliamentary system in which the government is directly responsible to the lower house. Publ: The Australian senate as a house of review: another look, Australian J. Polit. & Hist, 12/66; The effect of proportional representation on voting in the Australian senate, Parliamentary Affairs, 12/67. Address: Dept. of Political Science, Northern Illinois University, De Kalb, Ill. 60115.

FUSFELD, DR. DANIEL R(OLAND), b. Washington, D.C, May 23, 22; m. 47; c. 3. ECONOMICS. B.A, George Washington, 42; M.A, Columbia, 47, Ph.D, 53. Asst. prof. ECON, Hofstra Col, 47-56; assoc. prof, Mich. State, 56-60; PROF, MICHIGAN, 60- Summer vis. assoc. prof, Columbia, 60. U.S.A, 42-46. Econ. Asn; Econ. Hist. Asn; Econ. Hist. Soc, Brit. History of economic thought and economic history of market economies. Publ: Co-auth, The Soviet economy; a book of readings, Irwin, 62, 2nd ed, 66; auth, The age of the economist, Scott, 66; Economic thought of Franklin D. Roosevelt and the origins of the New Deal, Columbia, 53. Address: Dept. of Economics, University of Michigan, Ann Arbor, Mich. 48104.

FUSFELD, DR. IRVING S(IDNEY), b. New York, N.Y, Nov. 5, 93; m. 19; c. 2. PSYCHOLOGY. B.S, Columbia, 15, A.M, 17; B.Pd, Gallaudet Col, 16; A.M, 21, D.Litt, 46. Instr. psychol, Gallaudet Col, 16-21, asst. prof, 21-25, prof, 25-53, dir. res, 38-53, dean, 39-53, v.pres, 53-56; supvr. couns. & child guid, Calif. Sch. for Deaf, 57-63; RETIRED. Surv. consult, State Schs. for Deaf, Ala, Ga, Idaho, Ill, Md, N.J, Tex. & Wash. Asst. ed, Am. Annals of Deaf, 17-18, ed, 20-43. Treas, Conf. Execs. Am. Schs. for Deaf, 20-43, secy. cmt. certification, 31-50. Psychol. Asn; Alex. Graham Bell Asn. for the Deaf. Sociology. Publ: A handbook of readings in education of the deaf and postschool implications: co-auth, Survey of the Maryland state school for the deaf; Study of teacher certification requirements among public residential schools for the deaf. Address: 4945 Cochrane Ave, Oakland, Calif. 94618.

FUSON, PROF. ROBERT H(ENDERSON), b. Bloomington, Ind, July 7, 27; m. 52; c. 2. GEOGRAPHY. A.B, Indiana, 49; M.A, Fla. State, 51; Ph.D, La. State, 58. Geogr. & chief, N.Am. & S.Am. sect, intel. br, U.S. Air Force Aeronaut. Chart & Info. Center, D.C, 51-53; asst. geog, La. State, 54, instr. geog. & anthrop, 54-55, 56-57, Caribbean Prog, 55-56, asst. prof. GEOG, 58-60; instr, Miami (Fla), 57-58; asst. prof, SOUTH FLORIDA, 60-61, assoc. prof. & chmn. prog, 61-66, PROF, 66-, CHMN. DEPT, 67- Geog. ed, W.C. Brown Co. U.S.A.A.F, 44-45; U.S.N, 45-46. Asn. Am. Geog; fel. Am. Geog. Soc; Meteorol. Soc; Nat. Coun. Geog. Ed; Royal Geog. Soc. Geography of tropics; tropical climatology; savanna ecology; cultural anthropology. Publ: Fundamental place-name geography, 66, co-auth, Problems in world cultural geography, 2nd ed, 67 & Laboratory exercises in physical geography, 2nd ed, 67, W.C. Brown. Address: Dept. of Geography, University of South Florida, Tampa, Fla. 33620.

FUSON, PROF. WILLIAM M(EEKER), b. Canton, China, Dec. 21, 15; U.S. citizen; m. 41; c. 4. SOCIOLOGY. A.B, Kansas, 36, A.M, 38; Ph.D, Wisconsin, 41. Acting asst. prof, Mississippi, 41; instr, Michigan, 41-43, 46; asst. prof. SOCIOL, EARLHAM COL, 46-50, assoc. prof, 50-56, PROF, 56-, CHMN. DEPT, 55-, acad. asst. to pres, 58-65. Fel. Sociol. Asn. Sociology of religion; organizational behavior. Address: Dept. of Sociology, Earlham College, Richmond, Ind. 47374.

FUTHEY, DR. DALE EDWARD, b. Shadyside, Ohio, Feb. 16, 18; m. 43; c. 2. MARKETING. B.Sc, Ohio State, 52, M.B.A, 55, Ph.D.(mkt), 64. Field rep, plant food div, Swift & Co, 46-50; instr. MKT, Bowling Green State, 56-57; asst. prof, Toledo, 57-62; ASSOC. PROF, TULSA, 64- C.Eng, U.S.A.R, 39-46 & 51-53, Lt. Col. Mkt. Asn. Marketing management; retailing; principles of marketing; purchasing. Address: Dept. of Marketing, College of Business Administration, University of Tulsa, Tulsa, Okla. 74112.

FUTRELL, DR. GENE A(LLEN), b. Carlisle, Iowa, Aug. 31, 28; m. 51; c. 4. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Iowa State, 51, M.S, 57; Ph.D.(agr. econ), Ohio State, 64. Asst. mkt. news ed, coop. exten. serv, Iowa State, 54-58, exten. economist, dept. econ, 58-61; Ohio State, 61-64; ASSOC. PROF. ECON. & EXTEN. ECONOMIST, IOWA STATE, 64- U.S.M.C, 52-53, Sgt. Agr. Econ. Asn. Agricultural marketing problems aimed at increasing marketing efficiency and improving decision-making in agricultural marketing. Publ: The future demand for lamb and mutton, In: Report 21, The future for sheep, Center Agr. & Econ. Adjustment, Iowa State, 64 & Trends and projections of manufacturing employment in Iowa, Chap. 7, In: Human resources development, Univ, 67; co-auth, Econometric generalizations of the Ohio beef and pork industries in interregional competition, Res. Bull. 974, Ohio Agr. Res. & Develop. Center, 65. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50010.

FUTRELL, PROF. ROBERT F(RANK), Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

FYFE, DR. STEWART, b. Oxbow, Sask, June 22, 28; m. 53; c. 3. POLITICAL SCIENCE. B.A, Queen's (Ont), 49, M.A, 54; Cent. Mortgage & Housing Corp. fel, Manchester, 54-56, Ph.D, 58. Asst. polit. sci, Queen's (Ont), 50-51; dep. city clerk & planning officer, Kingston, Ont, 51-54; lectr. POLIT. SCI, QUEEN'S (ONT), 56-61, asst. prof, 61-64, ASSOC. PROF, 64- Consult, Prov. N.S. & dept. north. affairs, Govt. Can, 59-60; Prov. Ont, 63-68; Prov. Newf, 67-68. Mem. coun, Inst. Pub. Admin. Can, 59-60 & 66-67. Can. Polit. Sci. Asn; Inst. Pub. Admin. Can; Royal Inst. Pub. Admin. Local government and town planning; metropolitan problems; industrial location. Address: Dept. of Political Studies, Queen's University, Kingston, Ont, Can.

G

GAA, PROF. CHARLES J(OHN), b. Chicago, Ill, Dec. 29, 11; m. 41; c. 4. ACCOUNTING. B.S, Illinois, 32, M.S, 36, Ph.D.(acct, econ), 40. From asst. to prof. acct, Illinois, 35-41, 46-54; asst. prof, Amos Tuck Sch. Bus, Dartmouth Col, 41-42; acct. exec, Off. Price Admin, 42-43, chief training, adv. & procedures br, acct. dept, 45-46; dir. adv. training center, Internal Revenue Serv, Mich, 54-56; prof. acct. & asst. dean, sch. bus. admin, Michigan, 54-58; PROF. ACCT, MICH. STATE, 58- Lectr, American Univ, 44-46; grad. sch, U.S. Dept. Agr, 45-46. Pub. acct, George Rossetter & Co. & Price, Waterhouse & Co, Ill. Consult, Off. Contract Settlement, U.S. Treas. Dept, 46-47; Savannah River Opers, Atomic Energy Cmn, 51-52; U.S. Gen. Acct. Off, 60-65. Instr, contract termination sch, Duke, 44; Armed Forces Indust. Col, D.C, 44-45, U.S.A, 43-45, Capt. Am. Acct. Asn.(secy-treas, 50-53, v.pres, 54, pres, 60); Tax Inst. Publ: Taxation of corporate income, 44 & Outline of fundamentals of federal income taxation, 49, Univ. Illinois; Federal taxation—fundamental questions, problems and cases, McGraw, 65. Address: Graduate School of Business Administration, Michigan State University, East Lansing, Mich. 48823.

GABBARD, LETCHER P, Agr. Econ, Sociol, see 10th ed, Soc. & Behav. Vols.

GABBERT, DR. JACK B(ENTON), b. Dearborn, Mo, Nov. 2, 20. POLITICAL SCIENCE. A.B, Missouri, 42, M.A, 47; U.S.Steel Found. fel, Texas, 59-61, Ph.D.(polit. sci), 63. For. serv. staff officer, U.S. Dept. State, 49-50, for. serv. officer, 50-58; instr. POLIT. SCI, WASHINGTON STATE, 61-64, asst. prof, 64-66, ASSOC. PROF, 66- U.S.M.C.R, 42-46, 1st Lt. Polit. Sci. Asn. Latin American government and politics, especially the Mexican presidency and the congress; United States-Latin American relations. Publ: Ecuador, In: Political forces in Latin America, Wadsworth, 68. Address: Dept. of Political Science, Washington State University, Pullman, Wash. 99163.

GABEL, PROF. W(ALTER) CREIGHTON, b. Muskegon, Mich, Apr. 5, 31; m. 52; c. 3. ANTHROPOLOGY. B.A, Michigan, 53, M.A, 54; Ph.D.(prehist. archaeol), Edinburgh, 57. Instr. ANTHROP, Northwestern, 56-58, asst. prof, 58-65; ASSOC. PROF, BOSTON, 65- Anthrop. Asn; Soc. Archaeol. Old World archaeology, particularly transitions from hunting-and-gathering to agriculture. Address: Dept. of Anthropology, Boston University, Boston, Mass. 02215.

GABIS, PROF. STANLEY T, b. Philadelphia, Pa, Jan. 3, 19; m. 54; c. 3. POLITICAL SCIENCE. B.S, Pa. State Teachers Col.(West Chester), 40; M.A, Chicago, 47, Ph.D, 57. Asst. prof. polit, sci, Illinois, 50-58; Mich. State, 58-61; assoc. prof. POLIT. SCI, MISSOURI, COLUMBIA, 61-66, PROF, 66-, DIR. GRAD. PROG. PUB. ADMIN, 61- Mem. staff, Pub. Admin. Serv, 47-48; summer, dir. inst. fed. execs, Chicago, 58. Consult, State Dept. Ment. Health, Mich. U.S.A.A.F, 41-45, Capt. Polit. Sci. Asn. Public administration; political philosophy; international relations. Publ: Dilemmas of performance budgeting; Leadership in a large manager city: the case of Kansas City, Annals, 5/64; Rousseau, Marx and revisionism: a crisis in political theory, In: Contemporary developments in theory and practice of Communism, Drury Col, 67. Address: Dept. of Political Science, University of Missouri, Columbia, Mo. 65201.

GABRIEL, DR. RICHARD, b. Chicago, Ill, Dec. 12, 28. PSYCHOLOGY. B.A, Long Beach State Col, 53, M.A, 58; Ph.D.(psychol), Southern California, 63. Draftsman, Douglas Aircraft Co, Inc, Calif, 53-55, engr, 57; chief mgt. br, Army Aircraft Supply & Maintenance Depot, 56; teacher, high schs, Calif, 57-59; res. assoc. psychol, Southern California, 62-63; res. engr, AIRCRAFT DIV, DOUGLAS AIRCRAFT CO, INC, 63-64, res. specialist, 64, HEAD HUMAN FACTORS RES, 64- Psychol. Asn; Human Factors Soc. Information processing; vision and visual displays; auditory displays; training. Address: Douglas Aircraft Co, Inc, 3855 Lakewood Blvd, Long Beach, Calif. 90808.

GABRIELE, DR. ANTHONY B(ENEDICT), b. New York, N.Y, July 26, 27. PSYCHOLOGY. B.A, N.Y. Univ, 49, M.A, 52, Ph.D.(psychol), 53. Clin. psychologist, day center prog, State Dept. Welfare, N.Y, 51-53; Private Practice, 53- Staff psychologist, Bellevue Psychiat. Hosp. & Med. Center, N.Y. Univ, 54- Clin. psychologist, Riverside Hosp, 53; sr. psychologist, State Psychiat. Inst, N.Y, 53-54. Consult, community serv. cmt, Cong. Indust. Orgn, 52-; New York Youth Bd, 52- U.S.A, 46-47. Psychol. Asn. Adolescence; group dynamics; psychotherapy; psychoanalysis. Publ: Role of group cohesiveness in gang rehabilitation, Reports, New York Youth Bd; The principle of irrational loyalty, Paper, Coun. Psychoanal. Psychother,

2/66; The mystique of competence, Psychoanal. Rev, spring 66. Address: 7 W. 96th St, New York, N.Y. 10025.

GADBOIS, DR. GEORGE H(AROLD), JR, b. Boston, Mass, Mar. 14, 36; m. 58; c. 4. POLITICAL SCIENCE. B.A, Marietta Col, 59; Nat. Defense Ed. Act fel, Duke, 59-62, M.A, 62, Ph.D.(polit. sci), 65. Instr. polit. sci, Hawaii, 63-64, assoc. dir, inst. adv. projs, East-West Center, 64-66; ASST. PROF. POLIT. SCI, KENTUCKY, 66- Mem, nat. adv. panel, Int. Ed. Act, 1966, spring 67. U.S.A, 53-56. Polit. Sci. Asn; Asn. Asian Studies. Comparative judicial behavior, especially in India. Publ: Co-auth, Comparative judicial behavior, Oxford Univ, 68 & The political trial, Bobbs, 68; auth, The supreme court in the Indian political system, Health, 69. Address: Dept. of Political Science, University of Kentucky, Lexington, Ky. 40506.

GADDES, PROF. WILLIAM HENRY, b. Kelowna, B.C, Oct. 10, 12; m. 44; c. 4. PSYCHOLOGY. B.A, British Columbia, 39, M.A, 46; Ph.D, Claremont Grad. Sch, 55. Instr. PSYCHOL, VICTORIA (B.C), 46-47, asst. prof, 47-55, assoc. prof, 55-62, PROF, 62-, head dept, 61-67. Clin.psychologist, Victoria Vet. Hosp, 48-; vis. prof, Whittier Col, summer, 62; Can. Govt. res. grants, 62-68. Can. Psychol. Asn; Can. Neurol. Soc; Coun. Except. Children; Int. Neuropsychol. Soc. Cerebral function; neuropsychology; child development; clinical and vocational psychology. Publ: Co-auth, Chap. 14, In: The teacher of brain-injured children, Syracuse Univ, 66; A new test of dynamic visual retention, Perceptual & Motor Skills, 67; Psychometric intelligence and spatial imagery in two Northwest Indian and two white groups of children, J. Soc. Psychol, 68. Address: Dept. of Psychology, University of Victoria, Victoria, B.C. Can.

GADEL, M(ARGUERITE) S, Psychol, Statist, see 10th ed, Soc. & Behav. Vols.

GAEDE, DR. HERBERT L, b. Oak Park, Ill, Aug. 4, 27; m. 49; c. 4. GEOGRAPHY. B.A, Valparaiso, 50; M.A, Northwestern, 51, Ph.D, 59. Instr. geog, Indiana, 51-53; assoc. prof, Ball State Teachers Col, 54-57; Wis. State Col.(Oshkosh), 57-60, prof, 60-63; prin, Teacher's Col, Nigeria, 63-66; ASST. TO PRES, WIS. STATE, OSHKOSH, 67- U.S.N, 45-46. Asn. Am. Geog. Water resource development. Address: Office of the President, Wisconsin State University, Oshkosh, Wis. 54901.

GAFF, DR. JERRY G(ENE), b. DeKalb Co, Ind, Feb. 5, 36; m. 59; c. 2. PSYCHOLOGY. A.B, DePauw, 58; Ph.D.(psychol), Syracuse, 65. Instr. sociol, Hobart & William Smith Cols, 62-64; asst. prof. psychol, Raymond Col, Univ. of the Pacific, 64-67; ASST. RES. PSYCHOLOGIST, CENTER RES. & DEVELOP. HIGHER ED, CALIFORNIA, BERKELEY, 67- U.S. Off. Ed. res. grant, 66-67. Psychol. Asn; Sociol. Asn. Social psychological study of higher education. Address: Center for Research & Development in Higher Education, University of California, 1947 Center St, Berkeley, Calif. 94720.

GAFFEY, DR. JOHN DEAN, b. Bradgate, Iowa, Nov. 10, 13; m. 42; c. 3. ECONOMICS. B.A. & M.A, Ohio State, 35; Soc. Sci. Res. Coun. fel, Columbia, 35-58, Ph.D.(econ), 40. Field agent, Nat. Bur. Econ. Res, 36; instr. econ. & bus. admin, Rensselaer Polytech, 38-42; head economist bldg. materials & construct, Off. Price Admin, Wash, 42-45, chief economist, Calif, 45-46; regional economist, U.S. Dept. Commerce, 46-47; head mkt. dept, Southern California, 47-48; ECONOMIST, ANTITRUST DIV, U.S. DEPT. JUSTICE, LOS ANGELES, 48- Lectr, Southern California, 48- Econ. Asn; Arbit. Asn. Antitrust problems and policies; labor relations; marketing research. Publ: Productivity of labor in the rubber tire manufacturing industry; Post-war business review of the Pacific Southwest; Recent trends in antitrust law enforcement. Address: 1647 Perkins Dr, Arcadia, Calif. 91006.

GAFFNEY, PROF. M(ERRILL) MASON, b. White Plains, N.Y, Oct. 18, 23; m. 52; c. 3. ECONOMICS. B.A, Reed Col, 48; Rusby grant, 52; Ph.D.(econ), California, 56. Instr. econ, Oregon, 53-54; asst. prof, N.C. State Col, 54-58; assoc. prof. agr. econ, Missouri, 58-61, PROF, 61-62; ECON, WISCONSIN, MILWAUKEE, 62- Ford Found. grant, 56-57, faculty res. fel, 57-58. Economics of natural resources; capital theory. Publ: Extractive resources and taxation, Univ. Wisconsin, 67; Property taxation and frequency of urban renewal, Nat. Tax J, 64; Tax induced slow turnover of capital, West. Econ. J, 9/67. Address: Dept. of Economics, University of Wisconsin, Milwaukee, Wis. 53211.

GAGE, DR. GERALD E(LMER), b. Palmyra, Nebr, Feb. 24, 26; m. 48; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Nebr. Wesleyan, 50; M.A, Nebraska, 55, Ed.D.(ed. psychol), 60. Instr. ed. psychol, Nebraska, 58-60; asst. prof. psychol. & ed, Cent. Wash. State Col, 60-62, assoc. prof. psychol, 62-67; ASSOC. RES. PROF, DIV. TEACHING RES, ORE. STATE SYST. HIGHER ED, 67- Consult, Occup. Training Center, Nebr, 60. U.S.M.C, 44-46. Computer-based test development; education of disadvantaged. Address: Teaching Research Division, Oregon State System of Higher Education, Monmouth, Ore. 97361.

GAGE, PROF. N(ATHANIEL) L(EES), b. Union City, N.J, Aug. 1, 17; m. 42; c. 4. PSYCHOLOGY. A.B, Minnesota, 38; fel, Purdue, 40, Ph.D.(psychol), 47. Reader psychol, Purdue, 38, asst, 39-40, asst. to dir. div. ed. reference, 40-43, spec. counsr, 42-43, voc. appraiser, vet. guid. center, 45-46, div. ed. reference, 46-47, asst. dir, 47-48; from asst. prof. to PROF. ED. & PSYCHOL, col. ed, Illinois, Urbana, 48-62; STANFORD, 62-, CHMN. EXEC. BD, CENTER RES. & DEVELOP. IN TEACHING, 68-, co-dir, 65-68. Test technician, pharmaceut. surv, Am. Coun. Ed, D.C, 46-47; res. grant, Nat. Inst. Ment. Health, 53-57; fel. Center Adv. Study Behav. Sci, 65-66. Mem, Nat. Adv. Cmt. Ed. Labs, U.S. Off. Ed, 66- AAAS; fel. Psychol. Asn; Ed. Res. Asn.(pres, 63-64). Interpersonal perception and behavior; theory of teaching. Publ: Ed, Handbook of research on teaching; co-ed, Readings in the social psychology of education; co-auth, A practical introduction to measurement and evaluation, Harper, 60, 2nd ed, 66. Address: Stanford University School of Education, Stanford, Calif. 94305.

GAGNÉ, PROF. ROBERT M(ILLS), Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GAIENNIE, DR. L(OUIS) RENE, b. Kansas City, Mo, Oct. 24, 12; m. 41; c. 1. PSYCHOLOGY. A.B, Washington (St. Louis), 36; Ph.D, Iowa, 37; M.A, Wisconsin, 38; M.B.A, Chicago, 50. Psychologist, Am. Investment Co, Ill, 40-41; staff consult, Stevenson, Jordan & Harrison, 45-47; asst. to v.pres, Richardson Co, 47-48; v.pres. personnel, Fairbanks, Morse & Co, 48-57; ACF Industs, 57-60; PRES, HOWE RICHARDSON CORP, 62- U.S.N.R, 41-45. Psychol. Asn. Personnel and industrial organization control techniques; blood pressure changes and thermal sensitivity. Address: 10 Belleclaire Place, Montclair, N.J. 07042.

GAIER, PROF. EUGENE L(OUIS), b. Perth Amboy, N.J, Nov. 3, 25. SOCIAL PSYCHOLOGY. B.A, Bucknell, 47; M.A, Iowa, 48; fel, Chicago, 49-50, scholar, 50-51, Ph.D.(psychol), 51. Instr. & res. assoc. psychol, Illinois, 50-54; asst. prof, La. State, 54-60; assoc. prof. ED. PSYCHOL, STATE UNIV. N.Y. BUFFALO, 60-64, PROF, 64- Fulbright lectr, Helsinki, Finland, 57-58; vis. prof, California, Berkeley, 66-67. Consult, Off. Naval Res, 55-57. U.S.N, 44-46. Fel. Psychol. Asn; Ed. Res. Asn. Educational psychology; problems of attitude development and conformity patterns; problem solving; personality and learning. Publ: Pattern analysis, the configural approach to predictive measurement, Psychol. Bull; Selected personality variables and the learning process, Psychol. Monogr; contrib, Social psychology, In: Present-day psychology. Address: State University of New York at Buffalo School of Education, Buffalo, N.Y. 14214.

GAILEY, PROF. CHARLES ROBERT, Sociol, Anthrop, see 10th ed, Soc. & Behav. Vols.

GAINES, DR. GRANT R(OBERT), Psychol, see 10th ed, Soc. & Behav. Vols.

GAINES, DR. JEENE W(ILBUR), b. Cedar Rapids, Iowa, June 23, 29; m. 56; c. 3. PSYCHOLOGY. B.A, Iowa, 55; M.S, Purdue, 56, Ph.D.(psychol), 59. Staff psychologist, Dr. Norman M. Beatty Mem. Hosp, 57-59, chief psychologist, 63-66; staff psychologist, Fresno Family Counseling Center, 59-61; chief psychologist, Santa Clara County Hosp, 61-63; ASSOC. PROF. PSYCHOL, PURDUE, 66- Psychol. consult, Criminal Sexual Psychopath Prog, 67- U.S.A, 50-53. Psychol. Asn. Treatment of criminal sexual psychopaths; clinical and abnormal psychology; personality. Address: P.O. Box 561, Westville, Ind. 46391.

GAINES, PROF. JOHN F(RANKLIN), b. Broughton, Ill, Dec. 15, 17; m. 40; c. 2. PHYSICAL GEOGRAPHY. B.Ed, Southern Illinois, 40; M.A, Nebraska, 46, Ph.D.(geog), 51. Asst. GEOG, Nebraska, 40-42, 46-47, instr, 47-50; lectr, California, Los Angeles, 50-52, asst. prof, 52-58, assoc. prof, 58-63; CALIF. STATE COL. LOS ANGELES, 63-65, PROF, 65-, ASSOC. DEAN LETTERS & SCI, 66-, chmn. dept. geog, 64-66. Ed, Yearbook, Asn. Pac. Coast Geogr, 65-70. U.S.A, 42-46, Capt. Asn. Am. Geog; Nat. Coun. Geog. Ed; Am. Geog. Soc. Plant geography, distribution of plant communities; role of soils and men in relation to the distribution of plant communities; land utilization; geographic writing; arid lands. Address: 6121 Sylvia Ave, Reseda, Calif. 91335.

GAINES, DR. TILFORD C(RAIG), b. Spokane, Wash, Oct. 12, 20; m. 40; c. 1. ECONOMICS, FINANCE. B.A. & M.A, Washington (St. Louis), 48; Ph.D. (econ, bus), Columbia, 59. Instr. econ, Fla. State, 50-51; economist, Fed. Reserve Bank N.Y, 51-56, mgr. securities dept, 56-59, asst. v.pres. econ. res, 59-61; v.pres. securities, First Nat. Bank Chicago, 61-67; V.PRES. & ECONOMIST, MFRS. HANOVER TRUST CO, 67- Lectr, Madison Grad. Sch. Banking, 61-62; Stonier Grad. Sch. Banking, 62; Beloit Col, 62. Mem. Cmt. Int. Monetary Relationships, Int. Chamber Commerce, 61-62. Econ. Asn; Statist. Asn. Monetary theory; domestic and international monetary policy; financial market research and analysis. Publ: Techniques of treasury debt management; Bank portfolio management. Address: 133 Gerdes Rd, New Canaan, Conn. 06840.

GAINSBRUGH, PROF. M(ARTIN) R(EUBEN), b. Feb. 12, 08; m. 35; c. 3. ECONOMICS. A.B, Rochester, 28; Columbia, 29-32; LL.D, Grove City Col, 67. Econ. analyst, Trade-Ways Indust. Consults, 33-38; chief economist, NAT. INDUST. CONF. BD, 39-62, v.pres, 62-66, SR. V.PRES, 66-; ADJ. PROF. ECON, SCH. COMMERCE, ACCTS. & FINANCE & GRAD. SCH. BUS. ADMIN, N.Y. UNIV, 44- Tech. adv, U.S. Bur. Census & Bur. Labor Statist; consult, Coun. Adv. Sec. Ed, 55-57. Mem. Hoover Cmt. Govt. Statist; mem. conf. res. income & wealth, Nat. Bur. Econ. Res, 43-58, mem. at large, univs-nat. bur. cmt. econ. res, 59-62; secy-treas, Conf. Bus. Econ, 51-52, chmn, 55; chmn. cmt. gen. bus. expectations, bd. governors, Fed. Reserve Syst, 55; chmn. bus. res. adv. coun, Bur. Labor Statist, 55-57; bd. adv, Indust. Col. Armed Forces, 58-67; mem. textile indust. adv. cmt, U.S. Dept. Commerce, 59-; econ. adv. cmt, Coun. Econ. Growth & Security, Inc, 60-; mem. adv. group res. prog. of Soc. Security Admin, Dept. Health, Ed. & Welfare, 61; President's Cmt. to Appraise Unemploy. Statist, 61-; adv. cmt. mgt. automatic data processing, Exec. Off. President, 63-64; consult. panel, Comptroller Gen. of U.S, 67; private enterprise task force, Nat. Adv. Cmn. Civil Disorders, 68. Trustee Joint Coun. Econ. Ed, 54-68. Award of merit, Citizens Cmt. Hoover Report, 52; citation, Freedom Found, 53; cert. of award, U.S. Dept. Labor, 57. Fel. AAAS; Econ. Asn; Finance Asn; Statist Asn.(v.pres, 46-48, pres, 61); Economet. Soc; Royal Statist. Soc. National accounting; productivity; business trends. Publ: The forces influencing the American economy, N.Y. Univ, 64; Prices and inflation, Nat. Indust. Conf. Bd, 66; The future of capitalism, Macmillan, 67. Address: 230 E. 50th St, New York, N.Y. 10022.

GAISER, PROF. JOSEPH H, b. Ritzville, Wash, Mar. 3, 99. SOCIOLOGY. B.S, Whitman Col, 21; M.S, Wisconsin, 24; Stanford, summers, 28, 30; Munich, 31-32; Ph.D, Southern California, 44. Instr, high sch, Wyo, 21-23; Billings Polytech, 24-26; Menlo Sch. & Jr. Col, Calif, 27-31; PROF. SOC. SCI, EAST. ORE. COL, 32- Lectr, exten. serv, Oregon, 40- Social processes among northwest Basque people; sociological processes and problems; a follow-up study of Basques of the Pacific Northwest. Address: Dept. of Social Sciences, Eastern Oregon College, La Grande, Ore. 97850.

GAITO, DR. JOHN, Molecular Psychobiol, see 11th ed, Phys. & Biol. Vols.

GAITONDE, DR. MANGESH R, Psychiat, see 11th ed, Phys. & Biol. Vols.

GAJDUSEK, DR. D(ANIEL) CARLETON, Pediat, Virol, see 11th ed, Phys. & Biol. Vols.

GAJEWSKI, PETER, b. Warsaw, Poland, Jan. 30, 32; nat; m. 54; c. 1. ECONOMICS. B.S, Maryland, 57, M.A, 62. Economist, off. res, bur. pub. roads, U.S. Dept. Commerce, 57-59, off. bus. econ, 59-61; Nat. Sci. Found, 61; flow of funds & savings sect, Fed. Reserve Bd, 61-62; current U.S. bus. & bus. conditions sect, anal. & res. bd. govs, Fed. Reserve Syst, 62-65; econ. adv, BANGKOK, THAILAND, Nat. Econ. Develop. Bd, 65-67; CHIEF ECON. ANAL. DIV, AGENCY INT. DEVELOP, 67- Mem. mfg. wealth working group, wealth inventory planning study, George Washington, 63-64; U.S. rep, working group nat. acct, Econ. Cmn. Asia & Far East, 65. Econ. Asn. Economic development planning; national economic accounting; development and insurgency; local and regional economic development; U.S. current business analysis. Publ: Co-auth, National income of Thailand, Govt. Thailand, 65 ed, 66, 66 ed, 67; auth, Government capital formation, 12/63 & Manufacturing capacity measures and current economic analysis, 12/64, Proc. Am. Statist. Asn. Address: USOM c/o Postmaster, APO San Francisco 96346.

GAKENHEIMER, DR. RALPH ALBERT, b. Baltimore, Md, Jan. 17, 35; m. 62. CITY PLANNING. B.E.S, Hopkins, 57; M.R.P, Cornell, 59; Fulbright scholar, Nat. Eng. Univ. Peru, 60-61; Ph.D.(planning), Pennsylvania, 64. Asst. prof. CITY & REGIONAL PLANNING, NORTH CAROLINA, CHAPEL HILL, 62-64, assoc. prof, 64-68, PROF, 68- Consult, planning ed. in Cent. Am, U.S. Agency Int. Develop, 64; urban policy insts, Brookings Inst, 65-67; panel elec. motor vehicles, U.S. Dept. Commerce, 66; metrop. planning in Chile, Ford Found, 66, prog. in urban & regional develop, 68- Rev. ed, J. Am. Inst. Planners, 64-65, ed, 65-68. Regional Sci. Asn; assoc. Latin Am. Studies Asn; assoc. Inst. Planners. Social effects of urban technology; history of urban policy; urban transportation studies. Publ: Urban transportation, an overview, In: Taming metropolis, Doubleday, 67; Urban development in 16th century Peru, In: Urban explosion in Latin America, Cornell, 68. Address: Dept. of City & Regional Planning, University of North Carolina, Chapel Hill, N.C.27514.

GALANTE, DR. MARGARET B(AJARDI), b. New York, N.Y, Nov. 25, 21; m. 48; c. 3. PSYCHOLOGY. B.A, Hunter Col, 42; M.Sc, Fordham, 47, Ph.D, 55. Jr. psychologist, Cath. Charities Guid. Clin, N.Y, 47-49, clin. psychologist, 50-51; psychologist, ment. health asn, Nassau, 54-56; voc. ed. & exten. bd, 56-61; SCH. PSYCHOLOGIST, Mineola Pub. Sch, 61-62; PORT WASHINGTON PUB. SCHS, 62-, prin, Port Washington Elem. Sch, 65-67. Lectr, Hofstra & assoc, supv. interns in sch. psychol, 63- Consult, New Hyde Park Schs, 60-61. Psychol. Asn. Dependent and neglected children in institutions; group counseling; emotionally disturbed children. Address: 5214 241st St, Douglaston, N.Y. 11362.

GALANTER, PROF. EUGENE H(ARRISON), b. Philadelphia, Pa, Oct. 27, 24. PSYCHOLOGY. A.B, Swarthmore Col, 50; A.M, Pennsylvania, 51, Ph.D.(psychol), 53. Instr. PSYCHOL, Pennsylvania, 52-53, asst. prof, 53-57, assoc. prof, 57-61, prof, 61-62; prof, Washington (Seattle), 62-66, chmn. dept, 62-64; Joseph Klingenstein prof. soc. psychol, COLUMBIA, 66-67, PROF. PSYCHOL, 67- Resident fel, Harvard, 55-56; fel, Center Adv. Study Behav. Sci, 57-58. U.S.A, 43-46. Fel. AAAS; Psychonomic Soc; Acoustical Soc. Psychophysics; mathematical psychology; cognitive processes; perception. Publ: Co-auth, Plans and the structure of behavior; co-ed, Handbook of mathematical psychology, Wiley, 62-65; auth, Textbook of elementary psychology, Holden-Day, 66. Address: Dept. of Psychology, Columbia University, New York, N.Y. 10027.

GALANTER, DR. MARC, b. Philadelphia, Pa, Feb. 18, 31. SOCIAL SCIENCE, LAW. B.A, Chicago, 50, M.A, 54, J.D, 56; Pennsylvania, 53-54. Instr. law, law sch, Chicago, 56-57; asst. prof, Stanford, 58-59; vis. asst. prof. SOC. SCI, CHICAGO, 59-60, asst. prof, 60-66, ASSOC. PROF, 66- Faculty fel, Am. Inst. Indian Studies, 65-66. Foreign Law Asn; Asn. Asian Studies; Law & Society Asn. Comparative law; relation of law and religion; legal history, particularly the impact of western law in south Asia. Publ: Equality and protective discrimination in India, Rutgers Law Rev; Religious freedoms in the United States: a turning point?, Wis. Law Rev, 66; Group membership and group preferences in India, J. Asian & African Studies, 67. Address: Collegiate Division of Social Science, University of Chicago, 5811 S. Ellis Ave, Chicago, Ill. 60637.

GALBRAITH, DR. GARY CLOYD, b. U.S. PHYSIOLOGICAL PSYCHOLOGY. B.A, Long Beach State Col, 58; Ph.D.(physiol. psychol), California, Los Angeles, 64. Instr. psychiat. & neurol, sch. med, Tulane, 63-67; ASST. PROF. PSYCHOL, SOUTHERN CALIFORNIA, 67- Computer analysis of brain activity. Address: Dept. of Psychology, University of Southern California, College of Letters, Arts & Sciences, University Park, Los Angeles, Calif. 90007.

GALBRAITH, DR. JOHN A(LEXANDER), b. Montreal, Que, Oct. 28, 22; m. 49; c. 2. ECONOMICS. B.Com, McGill, 48, M.Com, 50, Ford Found. fel, 57-58, Ph.D.(econ), 59. ECONOMIST, Dept. Labor & Agr, Can, 50-52; ROYAL BANK CAN, 52-, HEAD ECON. RES. DEPT, 54- Asst. prof, McGill, 62- R.C.A.F, 42-45, Flying Officer. Econ. Asn; Finance Asn; Asn. Bus. Econ. Financial economics; banking and monetary theory. Publ: The economics of banking operations: a Canadian study, McGill, 63; Financing economic activity in Canada, Can. Banker; Monetary policy and nonbank financial intermediaries, Nat. Banking Rev, 9/66. Address: Royal Bank of Canada, P.O. Box 6001, Montreal 2, Que, Can.

GALBRAITH, PROF. J(OHN) K(ENNETH), b. Iona Station, Ont, Oct. 15, 08; m. 37; c. 3. ECONOMICS. B.S, Toronto, 31; fel, California, 31-34, M.S, 33, Ph.D, 34; Soc. Sci. Res. Coun. fel, Cambridge, 37-38; hon. LL.D, Miami (Ohio), 59, Massachusetts, 63, Brandeis, 63, Toronto, 63, Guelph, 65, Saskatchewan, 65, Michigan, 66, R.I. Col, 66, Boston Col, 67, Hobart & William Smith Cols, 67. Instr. & tutor, Harvard, 34-39; asst. prof. econ, Princeton, 39-42; econ. adviser, Nat. Defense Adv. Cmt, 40-41; asst. adminstr. in charge price div, Off. Price Admin, 41-42, dep. adminstr, 42-43; mem. bd. eds, Fortune Mag, 43-48; lectr, HARVARD, 48-49, PROF. ECON, 49-, PAUL M. WARBURG PROF, 59-60, 63- Dir, U.S. Strategic Bombing Surv, 45; dir, Off. Econ. Security Policy, U.S. Dept. State, 46; Am. Ambassador Extraordinary & Plenipotentiary, India, 61-63; chmn, Americans for Democratic Action, 67- Trustee, Twentieth Century Fund. Medal of Freedom, 46. Econ. Asn; Agr. Econ. Asn; fel. Am. Acad. Arts & Sci; Nat. Inst. Arts & Letters. Publ: Economic development, Harvard, 64; The Scotch, 64 & The new industrial state, 67, Houghton. Address: 30 Francis Ave, Cambridge, Mass. 02138.

GALBRAITH, PROF. VIRGINIA L(EE), b. Boise, Idaho, Mar. 28, 18. ECONOMICS. A.B, California, 41, Haynes fel, 48-49, Ph.D.(econ), 55. Asst. ECON, California, 41-46; instr, Vassar Col, 46-48; asst. prof, MT. HOLYOKE COL, 50-56, assoc. prof, 56-66, PROF, 66- Vis. prof, Amherst Col, 60; summers, vis. prof, Minnesota, 59, 61; Ford Found. fel, Columbia, 60; Am. Asn. Univ. Women fel, 63-64; summer fel, 4-Col. Asian-African Studies, 66. Mem. consumer adv. coun, Attorney-Gen, Commonwealth of Mass, 58- Econ. Asn. French aid and French West African development. Publ: World trade in transition, Pub. Affairs, 65; co-auth, Birth rates and inter-war business cycles, J. Am. Statist. Asn; auth, West European foreign aid, Current Hist, 8/66. Address: Dept. of Economics, Mt. Holyoke College, South Hadley, Mass. 01075.

GALBREATH, PROF. C(HARLES) EDWARD, b. Susquehanna, Pa, Nov. 4, 09; m. 43; c. 2. ECONOMICS. A.B, Colgate, 31; A.M, Cornell, 32, Ph.D.(econ), 41. Instr. econ, Cornell, 36-39; asst. prof, Alfred, 39-42; mem. staff, Off. Price Admin, 42-46; Cent. Intel. Agency, 47-54; economist, White House, Wash, D.C, 54-60; PROF. econ, GEORGE WASHINGTON, 60-63, INT. ECON, 63-, CHMN. DEPT. ECON, 66-, acting dean col. gen. studies, 65-66. Dir. univ. off-campus center, U.S. Army War Col, 60-63, Nat. War Col, 63-64. Dir. Bus. & Indust. Develop. Co, Wash, D.C, 60-63. Exec. secy, Coun. For. Econ. Policy, 60. U.S.N, 42-46, Comdr. Econ. Asn; Soc. Int. Develop. International economics; money and banking; economic theory. Publ: Co-auth, Subsidies and price control, Am. Econ. Rev. Address: Dept. of Economics, George Washington University, Washington, D.C. 20006.

GALBRECHT, DR. CHARLES R(OLLIN), b. Rochester, N.Y, July 16, 28; m. 60. PSYCHOLOGY. B.A, Rochester, 50; M.S, Tulane, 54, Ph.D.(psychol), 58. Instr. psychol, Dillard, 55-56; asst. prof. psychophysiol, med. center, Arkansas, 56-67; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, 67- Psychol. Asn. Animal learning; psychophysiological research, especially responses of autonomic nervous system to varying stress situations. Publ: Co-auth, Psychophysiological reactions to novel stimuli: measurement, adaptation and relationship of psychological and physiological variables in the normal human, Ann. N.Y. Acad. Sci; Effect of traumatic experiences on the growth and behavior of the rat, J. Psychol; Psychophysiological reactions of 'normals' and psychiatric patients, Psychiat. Res. Reports. Address: Central Neuropsychiatrics Research Lab, Veterans Administration Hospital, Perry Point, Md. 21902.

GALE, DR. ELLIOT NYMAN, b. Kansas City, Mo, Oct. 30, 38; m. 65. PSYCHOLOGY. B.S, Washington (St. Louis), 61, Ph.D.(psychol), 66. Fel, Lafayette Clin, Mich, 65-66; ASST. PROF. BEHAV. SCI, STATE UNIV. N.Y. BUFFALO, 66- AAAS; Psychol. Asn; Soc. Psychophysiol. Res. Psychophysiological responsivity; conditioning of physiological responses; factors associated with behavioral change; adaptation to environmental factors. Publ: Co-auth, A comparison of reciprocal inhibition and experimental extinction in the extinction process, Behav. Res. & Ther, 66, Conditioning the electrodermal orienting response, 67 & Conditioning the peripheral vasomotor orienting response, 68, Psychophysiology. Address: Dept. of Behavioral Science, State University of New York at Buffalo, Buffalo, N.Y. 14214.

GALE, PROF. RAYMOND FLOYD, b. Galesburg, Ill, June 12, 18; m. 41. PSYCHOLOGY, SOCIOLOGY. B.S, Ill. State Norm. Univ, 40; Colo. State, 46; M.S, Southern California, 47; Minnesota, 50; Ph.D, Northwestern, 55. Teacher, pub. sch, Ill, 41-43; high sch, 46-55; dean faculty & counseling psychologist, Wayland Acad, Wis, 55-57; dir. counseling, lab. sch, BALL STATE, 57-62, PROF. PSYCHOL, 62- Vis. prof. Millikin Univ, Idaho State Col, New Mexico, Southern California, Colorado, Wisconsin, summers, 56-61. Med.C, 43-46, Sgt. Psychol. Asn; Personnel & Guid. Asn. Theories of learning; group behavior, crime and delinquency; personality dynamics, counseling techniques and group dynamics; developmental and adolescent psychology. Publ: Developmental behavior: a phenomenological approach to becoming, Macmillan, 68; Follow-up study of college students, J. Exp. Ed; Developing the self, J. Soc. Psychol. Address: Dept. of Psychology, Ball State University, Muncie, Ind. 47306.

GALE, DR. RICHARD P, b. Chicago, Ill, Dec. 03, 37; m. 61. SOCIOLOGY. B.A, Reed Col, 60; M.A, Washington State, 62; Mich. State Center Int. Progs. fel, Argentina, 65-66; Grad. Coun. fel, Mich. State, 66-67; Ph.D.(sociol), 68, U.S. Forest Serv. & Lane County Coun. Alcoholism res. grants, 67- ASST. PROF. SOCIOL, OREGON, 67- Sociol. Asn; Soc. Appl. Anthrop. Outdoor recreation; industrial sociology; socio-economic development in Latin America. Address: 2232 McMillan St, Eugene, Ore. 97405.

GALENSON, DR. ELEANOR, b. New York, N.Y, Oct. 28, 16; m. 41; c. 2. PSYCHOANALYSIS, PSYCHIATRY. B.A, Barnard Col, 36; M.D, Cornell, 40, Commonwealth Fund fel, 43-45. ASSOC. PROF. PSYCHIAT, ALBERT EINSTEIN COL. MED, 66- Psychoanal. Asn; Asn. Child Psychoanal; Orthopsychiat. Asn; Psychiat. Asn. Child and adult psychoanalysis; normal child development. Address: Dept. of Psychiatry, Albert Einstein College of Medicine, Yeshiva University, 1300 Morris Park Ave, Bronx, N.Y. 10461.

GALENSON, PROF. WALTER, b. New York, N.Y, Dec. 5, 14; m. 40; c. 3. ECONOMICS. A.B, Columbia, 34, Ph.D, 40. Asst. prof. econ, Hunter Col, 38-41; Harvard, 46-51; PROF. indust. rels, California, 51-66; ECON, CORNELL, 66- Fulbright fel, 50; Guggenheim fel, 54-55. With Off. Strategic Serv, 43-45. Econ. Asn; Indust. Rels. Res. Asn. Labor economics; economic development; economy of China. Publ: Labor productivity in Soviet and American industry; The CIO challenge to the AFL; co-auth, The quality of labor and economic development, Int. Labor Orgn, 65. Address: School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

GALINSKY, DR. M. DAVID, b. New Haven, Conn, July 27, 34; m. 58; c. 1. PSYCHOLOGY. A.B, Duke, 56; Harvard, 56-57; M.A, Michigan, 59, Ph.D. (clin. psychol), 61. From instr. to asst. prof. psychol, Michigan, 61-65; ASSOC. PROF. PSYCHOL. & DIR. CLIN. TRAINING PROG, NORTH CAROLINA, 65- Consult, Vet. Admin, 63-; Dorothea Dix Hosp, 66- Psychol. Asn. Relationship between personality development and vocational choice and academic difficulty. Publ: Co-auth, Organization of patients & staff in three types of mental hospitals, In: Behavioral science for social workers, Macmillan, 67; auth, Personality development & vocational choice of clinical psychologists & physicists, 62 & co-auth, Vocational choice as a focus of the identity search, 66, J. Counseling Psychol. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27515.

GALLAGHER, DR. EUGENE B(ENNETT), b. Lancaster, Pa, Mar. 25, 29; m. 51; c. 4. SOCIOLOGY. B.A, Lehigh, 49; M.A, Harvard, 54, Am. Coun. Learned Socs. fel. & Ph.D, 58. Asst. sociol. res, Mass. Ment. Health Center, 55-58; res. instr. soc. sci, sch. med, Boston, 61-62; asst. prof, BEHAV. SCI, SCH. MED, KENTUCKY, 62-65, ASSOC. PROF, 65- Res. coordinator, Avery Psychiat. Center, 58-62. Consult, State Rehab. Cmn, Mass, 60-62; Ky. Ment. Health Planning Cmn, 64-65; bd. dirs, Lexington Family Counseling Serv, 65-; Ky. Med. Asn. Study Cmn. Improved Community Health, 67-; Ky. Cmn. Sci. & Tech, 67- Sociol. Asn. Social structure of psychiatric institutions; health care of infants. Publ: Co-auth, Patienthood in the mental hospital, Houghton, 64; The influence of patient and therapist in determining the use of psychotherapy in the hospital setting, Psychiatry, 11/65 and Separation phenomena as a basis for resistance to hospitalization, Int. J. Soc. Psychiat, winter. 66/67. Address: Dept. of Behavioral Science, University of Kentucky, Lexington, Ky. 40506.

GALLAGHER, DR. JAMES J, b. Pittsburgh, Pa, June 11, 26; m. 49; c. 3. PSYCHOLOGY. B.S, Pittsburgh, 48; M.S, Pa. State, 50, U.S. Pub. Health Serv. fel, 50-51, Ph.D.(psychol), 51. Chief psychologist, Dayton Hosp. Disturbed Children, Ill, 51-52; asst. prof. psychol, Mich. State, 52-54; prof, inst. res. except. children, Illinois, Urbana, 54-67; ASSOC. CMNR. ED, BUR. ED. HANDICAPPED, U.S. OFF. ED, 67- Nat. Sci. Found. fel, 60-61. Spec. consult, ed. improv. prog, Duke, 66-67. U.S.N, 43-45. Psychol. Asn; Ed. Res. Asn; Coun. Except. Children (pres, 67). Characteristics of exceptional children; educational methods to improve learning skills. Publ: Tutoring of brain injured children; Teaching the gifted child, Allyn & Bacon, 64; Research summary on gifted child education, Supt. Pub. Instr, Springfield, Ill, 66. Address: 9415 Linden Ave, Bethesda, Md. 20014.

GALLAGHER, DR. JOHN F, b. Pasadena, Calif, Feb. 11, 36. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, California, Los Angeles, 57, M.P.A, 59, Ph.D.(polit. sci), 64. Personnel analyst, Los Angeles City Sch. Dist, 56-59; asst. prof. polit. sci, California, Davis, 61-66; res. assoc, temporary cmn, N.Y. State Constitutional Convention, 67, consult, convention, 67; RES. ASSOC, OHIO LEGIS. SERV. CMN, 68- Asst. res. polit. scientist, inst. govt. affairs, California, Davis, 62-66; lectr, grad. sch. pub. admin, N.Y. Univ, 67. Consult, Inst. Pub. Admin, New York, 67. Polit. Sci, Asn; Soc. Pub. Admin. Politics and administration of elementary and secondary education; legislative reapportionment in local government; public administration in a technological society. Publ: Co-auth, California government; one among fifty, Macmillan, 65; Selective service act, Dodd, 66; auth, Politics of school district reorganization: the California experience, Univ. Calif, 66. Address: 645 Neil Ave, Apt. 920, Columbus, Ohio 43215.

GALLAGHER, PROF. JOHN O(WEN), b. Scotland, May 2, 12; nat; m. 44; c. 2. ECONOMICS. Ph.D.(polit. sci), Fletcher Sch. Law & Diplomacy, 53. Instr. econ, Maine, 46-48; econ. & soc. sci, Wesleyan, 49-53; from asst. to PROF. ECON, UPSALA COL, 53-, CHMN. DEPT, 67- Found. Econ. Ed. fel, 54; Ford Found. faculty fel, Yale, 58; arbitrator, N.J. State Mediation Bd, 63-65. Consult, N.J. Coun. Econ. Ed, 57-61, mem. bd. dirs, 65-69; consult, E.Ky. Coun, Univ. Kentucky, 60; center econ. ed, Montclair State Col, 62-63. Econ. Asn. International economic relations; labor relations and law. Address: 158 Renshaw Ave, East Orange, N.J. 07017.

GALLAGHER, JOHN SILL, JR, b. Waterloo, Iowa, Jan. 28, 16; m. 46; c. 5. TRANSPORTATION ECONOMICS. B.A, Antioch Col, 39; Harvard, 42-43. Ticket agent, Cincinnati & Lake Erie R.R, 35-39; passenger rep, Atlantic Coast Line Fla. E.Coast Rwy, 39-40; various positions with New Haven R.R, 40-48, asst. mgr. passenger res, 48-50; ed. traffic & transportation, Rwy. Age Mag, 50-54; dir. passenger res, New York Central R.R, 54-60; independent consult, 60-61; asst. chief econ. div. aviation dept, Port of New York Authority, 61-63; DIR. TRANSPORTATION RES, BATTELLE MEM. INST, 63- Summer consult, grad. sch. bus, Harvard, 54. Interrelation of sociology and technology and their application to urban and regional development through the medium of transportation; improving the technology, utilization and management of transportation; transportation planning and design. Address: Battelle Memorial Institute, 505 King Ave, Columbus, Ohio 43201.

GALLAGHER, DR. O(RVOELL) R(OGER), b. St. Paul, Minn, Aug. 31, 16; m. 52; c. 4. ANTHROPOLOGY. B.A, California, 47; M.A, London, 50; Ph.D. (anthrop), Columbia, 55. Asst. prof. ANTHROP, N.Y. Univ, 54-59; ASSOC. PROF. SKIDMORE COL, 59- Nat. Sci. Found. res. grant, 62-63; Nat. Inst. Ment. Health res. grant, 66-67. U.S.A, 41-46. AAAS; Anthrop. Asn. Ethnology; community studies; acculturation. Publ: Drinking problems of tribal Bihar, Quart. J. Studies Alcohol, 12/65; Endogamous marriage in Central India, Ethnology, 1/65; The folk-urban hypothesis and applied anthropology, J. Soc. Res, India, 3/66. Address: Dept. of Anthropology, Skidmore College, Saratoga Springs, N.Y. 12866.

GALLAGHER, PROF. PATRICK (FRANCIS), b. Wilkinsburg, Pa, Apr. 18, 30; div; c. 3. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Pittsburgh, 57; univ. fel. Yale. 57-58. Butler fel, 58-59, Orgn. Am. States summer fel, 59, Jr. Sterling fel. 59-60. Brady fel, 60-61, Ph.D.(anthrop), 64. Asst. anthrop, Pittsburgh, 57; archaeol, Washington State, 58; check ed, Human Rels. Area Files, 59-61; asst. prof. anthrop, GEORGE WASHINGTON, 61-65, assoc. prof, 65-67, chmn. dept, 65-68, prof, 67-68, ADJ. PROF. ANTHROP. & INT. AFFAIRS, 68- Reader, Yale, 59-60; specialist, Inter-Am. Rev. Bibliog, 63-; Nat. Sci. Found. grant, 67-; lectr, Am. Anthrop. Asn. Vis. Lectr. Prog, 67- Consult, Packard Bell Electronics Corp, 65-66; U.S. Bd. Chaplains, 66-67. Bd. coun. mem, Anthrop. Soc. Wash, 66- AAAS; Soc. Am. Archaeol. (asst. ed, Am. Antiquity, 60-63; treas, 68-); fel. Am. Anthrop. Asn; Ethnol. Soc; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. American ethnology and archaeology; psychological and philosophical anthropology. Publ: The world of Levi-Strauss & Games Malinowski played, New Repub, 67; Archaeology of Venezuela, Revista Interamericana de Bibliografia. Address: Dept. of Anthropology, George Washington University, Washington, D.C. 20006.

GALLAGHER, REV. RALPH A, S.J, Sociol, see 10th ed, Soc. & Behav. Vols, deceased 65.

GALLAHER, PROF. ART, JR, b. Duncan, Okla, Mar. 22, 25; m. 50; c. 2. SOCIAL ANTHROPOLOGY. M.A, Oklahoma, 51; univ. fel, Wenner-Gren Found. fel. & Ph.D.(soc. anthrop), Arizona, 56. Instr. anthrop, Houston, 56-59, assoc. prof. anthrop. & sociol, 59-62; anthrop, Nebraska, 62-63; KENTUCKY, 63-66, PROF. ANTHROP. & BEHAV. SCI, 67-, DEP. DIR. CENTER DEVELOP. CHANGE, 66- Nat. Sci. Found. res. grant, Ireland, 65-66. U.S.C.G, 43-46. AAAS; fel. Soc. Appl. Anthrop.(secy-treas, 66-71); fel. Anthrop. Asn; Ethnol. Soc. Culture change; anthropological analysis of complex societies; community study methodology; social organization; applied anthropology; European peasantry; industrialization; development. Publ: Plainview fifteen years later; ed, Perspectives in developmental change, Univ. Kentucky, 67. Address: Dept. of Anthropology & Behavioral Science, University of Kentucky, Lexington, Ky. 40506.

GALLANT, DR. L(EONARD) J(AY), Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GALLARDO, DR. LLOYD L(AWRENCE), b. Oakland, Calif, June 20, 20; m. 41; c. 3. ECONOMICS. A.B, St. Mary's Col.(Calif), 41; M.A, California, 49, fel, 56, Ph.D.(econ), 62. Instr. ECON, St. Mary's Col.(Calif), 48-50, asst. prof, 50-56; instr, Mich. State, 56-60; ASSOC. PROF, St. Mary's Col.(Calif), 60-65; SAN FRANCISCO STATE COL, 65- Asst, inst. indust. rels, California, 54-55; fel, Fed. Reserve Bank of San Francisco, Calif, 55. Consult, farm placement serv, U.S. Dept. Labor, 62-63; dir. consult-serv, West. Regional Off. Econ. Opportunity, 65-67, consult, off. prog. eval, Off. Econ. Opportunity, 67; Vol. in Serv. to Am, 66-67. U.S.A, 42-46, 1st Lt. Econ. Asn; Indust. Rels. Res. Asn. Harvest labor market; economics of poverty. Publ: The green carder, Employ. Security Rev, 1/63; Economics of the demand for harvest labor by the individual farm enterprise, West. Econ. J, summer, 64. Address: Dept. of Economics, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

GALLAWAY, PROF. LOWELL E(UGENE), b. Toledo, Ohio, Jan. 9, 30; m. 53; c. 3. ECONOMICS. B.S, Northwestern, 51; M.A, Ohio State, 55, Ph.D, 59. Asst. prof. econ, Colorado State, 57-59; San Fernando Valley State Col, 59-62; vis. assoc. prof. econ, Minnesota, 62-63; chief anal. studies sect, Soc. Security Admin, 63-64; assoc. prof. indust, Pennsylvania, 64-67; PROF. ECON, OHIO, 67- U.S.N, 51-54, Lt.(jg). Econ. Asn. Adjustment process in various types of labor markets within the United States. Publ: Interindustry labor mobility in the United States: 1957-1960, Soc. Security Admin, 67; Labor mobility, resource allocation, and structural unemployment, 9/63 & The foundations of the war on poverty, 3/65, Am. Econ. Rev. Address: Longview Heights Rd, Athens, Ohio 45701.

GALLIK, DIMITRI M(ICHAEL), b. Clifton, N.J, Oct. 11, 14; m. 49. ECONOMICS. B.A, Syracuse, 50; M.A, California, 52; Syracuse, 58-60. Private translator, 53-55; economist Soviet econ, C-E-I-R, Inc, 55-57; Russian translator, Syracuse, 58-60; economist, C-E-I-R, Inc, 60-62; ANALYST, RES. ANAL. CORP, McLEAN, 62- Instr, Maryland, 66- U.S.A.A.F, 37-40, 42-45. Econ. Asn; Asn. Adv. Slavic Studies. Soviet economics; interindustry analysis; developing economies. Publ: Co-auth, Toward a new Soviet economics: underlying macroeconomic trends, Johns Hopkins, 68; Institutional stagnation and changing economic strategy in the Soviet Union, In: New directions in the Soviet economy, U.S. Cong. Joint Econ. Cmt, 66. Address: 618 Eldrid Dr, Silver Spring, Md. 20904.

GALLIN, DR. BERNARD, b. Brooklyn, N.Y, Feb. 9, 29; m. 54; c. 2. ANTHROPOLOGY. B.S.S, City Col. New York, 51; Yale, summer 52; Ford Found. fel. & Ph.D.(anthrop), Cornell, 61. Teaching asst. Far Eastern studies, Cornell, 54-56, anthrop, 59-60; asst. prof, Wayne State, 60-61; Harpur Col, State Univ. N.Y. Binghamton, 61-62; MICH. STATE, 62-65, ASSOC. PROF. ANTHROP. & ASIAN STUDIES, 65- Fulbright-Hays res. scholar, inst. ethnol, Acad. Sinica, 65-66 & vis. lectr, Univs. Malaya & Singapore, June, 66; participant symp. local-level polit, Wenner-Gren Found. Anthrop. Res, Borg Wartenstein, Austria, July, 66. U.S.A, 52-54. Fel. Anthrop. Asn; Asn. Asian Studies; Ethnol. Soc. Socioeconomic and culture change in Chinese peasant society through village community studies in Taiwan; Chinese rural-urban migration and urbanization in Taiwan. Publ: Matrilateral and affinal relationships of a Taiwanese village, Am. Anthropologist, 8/60; Chinese peasant values toward the land, Proc. 1963 Annual Spring Meeting Am. Ethnol. Soc, spring 64; Hsin Hsing, Taiwan: a Chinese village in change, Univ. California, 66. Address: Dept. of Anthropology, Michigan State University, East Lansing, Mich. 48823.

GALLISTEL, DR. CHARLES R, b. Indianapolis, Ind, May 18, 41. PSYCHOLOGY. B.A, Stanford, 63; Ph.D.(psychol), Yale, 66. ASST. PROF. PSYCHOL, PENNSYLVANIA, 66- Psychol. Asn. Brain stimulation; analysis of neural structure by single unit recording; motor coordination; psychology of animal motivation. Publ: Self-stimulation and its theoretical implications, Psychol. Bull, 64. Address: Dept. of Psychology, University of Pennsylvania, Philadelphia, Pa. 19104.

GALLMAN, PROF. ROBERT E(MIL), b. Paterson, N.J, Oct. 16, 26; m. 52; c. 2. ECONOMICS. A.B, Cornell, 48; M.A, Pennsylvania, 49, Ph.D.(econ), 56. Instr. econ, Pennsylvania, 49-51, finance & statist, 53-54; ECON, Ohio State, 54-56, asst. prof, 56-59, assoc. prof, 59-62; NORTH CAROLINA, 62-67, PROF, 67- Vis. asst. prof, Hopkins, 56-57; Ford fel, 60-61; Nat. Sci.

Found. grant, 64-68; vis. prof, Stanford, 67-68. Managing ed, South. Econ. J, 65- Mem. conf. res. income & wealth, Nat. Bur. Econ. Res. U.S.N, 51-53. Econ. Asn; Econ. Hist. Asn. Economic development; American economic history. Publ: Commodity output, 1839-1899, 60 & Gross national product in the United States, 1834-1909, 66, Conf. Res. Income & Wealth. Address: Dept. of Economics, University of North Carolina, Chapel Hill, N.C. 27514.

GALLO, PROF. FRANKLIN W, b. Pittsfield, Mass, July 3, 25; m. 48; c. 4. SOCIOLOGY. B.A, Am. Int. Col, 47, M.A, 49; Columbia, 50-54. Asst, bur. app. soc. res, Columbia, 51-54; asst. prof. SOCIOL, AM. INT. COL, 55-68, ASSOC. PROF, 68-, CHMN. DEPT, 60- Sociol. Asn. Theory and history of sociology; social stratification; demography; public opinion; social psychology; American and British political and military elites in World War II. Address: Dept. of Sociology, American International College, Springfield, Mass. 01109.

GALLOWAY, DR. CHESTER ORVILLE, b. Foss, Okla, Mar. 6, 28; m. 50; c. 2. PSYCHOLOGY. B.A, Northwest Nazarene Col, 52; B.D, Nazarene Theol. Sem, 55; M.R.E, Southwest. Baptist Theol. Sem, 58; Nat. Defense Ed. Act fel, Wyoming, 61-64, M.Ed, 62, Ph.D.(ed. guid), 64. Dir. relig. ed, Church of the Nazarene, 55-60; teacher & counsr, pub. sch, Ore, 60-61; REGISTR, DIR. ADMIN. & TEACHER PSYCHOL, NORTHWEST NAZARENE COL, 64- U.S.A, 46-48, Sgt. Personnel & Guid. Asn. Address: Dept. of Psychology, Northwest Nazarene College, Nampa, Idaho 83651.

GALLOWAY, EILENE MARIE, b. Kansas City, Mo, May 4, 06; m. 24; c. 2. POLITICAL SCIENCE. A.B, Swarthmore Col, 28. Instr. polit. sci, Swarthmore Col, 28-30; ed, Student Serv, D.C, 31; mem. staff ed. div, Fed. Emergency Relief Admin, 35; chmn, Cmt. Ed. & Recreation, D.C, 37-38; forum leader prog. adult ed, U.S. Off. of Ed, 38; asst. chief info. sect, div. spec. info, LIBRARY OF CONG, 41-43, ed, Postwar Abstracts, Abstracts of Postwar Lit. & Pub. Affairs Abstracts, 43-51, specialist nat. defense, legis. ref. serv, 51-66, SR. SPECIALIST INT. RELS, 66-; SPEC. CONSULT, CMT. AERONAUT. & SPACE SCI, U.S. SENATE, 59-, mem. staff, for. rels. cmt, 47, consult, armed serv. cmt, 53, spec. consult, cmt. space & astronaut, 58. Wilton Park summer fel, Sussex, Eng, 68. Consult, Ford Found, 57. Participant, Int. Astronaut. Fedn. Cong, Varna, Bulgaria, 62, Paris, 63, Warsaw, 64, Madrid, 66 & Belgrade, 67; U.S. group prfnl. staff mem, Interparliamentary Union, Lausanne & Belgrade, 63, Lucerne & Copenhagen, 64, Dublin & Ottawa, 65, Canberra & Teheran, 66. Mem, tech. cmt. law & sociol, Am. Inst. Aeronaut. & Astronaut, 67, orgn. steering cmt. conf. on impact of aerospace tech. on law & govt, 68. Del, Conf. Int. Astronaut. Fedn, Hague, 58, Eng, 59, Sweden, 60; mem, Int. Symp. Space Tech. & Sci, Tokyo, 65; Fed. Bar Asn. Space Law Seminar & Inter-Am. Bar Asn, 66- Mem, Int. Inst. Space Law, U.S. bd. dirs, 66- Andrew G. Haley gold medal, 68. Polit. Sci. Asn; Inst. Aeronaut. & Astronaut. Publ: International cooperation and organization for outer space, 65, United States international space programs 1959-1965, 65 & Treaty on outer space, 67, U.S. Senate. Address: c/o Senate Committee on Aeronautical & Space Sciences, Room 231, Senate Office Bldg, Washington, D.C. 20008.

GALLOWAY, DR. GEORGE B(ARNES), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 67.

GALLOWAY, DR. J(OHN) H(ERBERT), b. Stranraer, Scotland, Jan. 22, 40; Can. citizen. GEOGRAPHY. B.A, McGill, 60; Woodrow Wilson fel. & M.A, California, Berkeley, 61; McGill Univ. Moyse traveling fel, Can. Coun. fel. & Ph.D.(geog), London, 65. Lectr. GEOG, TORONTO, 64-65, ASST. PROF, 65- Asn. Am. Geog; Can. Asn. Geog.(asst. ed, Can. Geogr, 66-). Historical geography of Latin America, with emphasis on Brazil. Publ: The sugar industry of Barbados during the seventeenth century, J. Trop. Geog, 12/64; The sugar industry of Pernambuco during the nineteenth century, Ann. Asn. Am. Geog, 6/68. Address: Dept. of Geography, University of Toronto, Toronto, Ont, Can.

GALLUP, DR. GEORGE H(ORACE), b. Jefferson, Iowa, Nov. 18, 01; m. 25; c. 3. PSYCHOLOGY. B.A, Iowa, 23, Ph.D.(psychol), 28; hon. LL.D, Northwestern, Drake, Colgate, Chattanooga, Rider Col. & Iowa; hon. D.Sc, Tufts Col; hon. L.H.D, Boston. DIR, AM. INST. PUB. OPINION, 35-; CHMN. BD, GALLUP & ROBINSON, INC. & GALLUP ORGN, INC, 35- Dir. res, Young & Rubicam, 32-47; pres, Int. Asn. Pub. Opinion Insts; pres, Nat. Munic. League, 52-56, chmn. coun. & All-Am. Cities award cmt. Hall of Fame in Distribution, 62; distinguished citizen award, Nat. Munic. League, 62; advert. gold medal, Printer's Ink, 64; Parlin award, Am. Mkt. Asn, 65; Wisdom award of honor, 65; Drexel distinguished achievement award, 66. Asn. Pub. Opinion Res.(pres, 54, award, 63); World Asn. Pub. Opinion Res. Magazine and television advertising; public opinion. Publ: The Gallup political almanac, 52; Secrets of long life, 60; The miracle ahead, 64. Address: 53 Bank St, Princeton, N.J. 08540.

GALLUP DR HOWARD F(REDERICK), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

GALLWEY, DR. MARY OSBORN, b. Corvallis, Ore, Dec. 7, 30; div; c. 2. PSYCHOLOGY. B.A, Cornell, 51, M.A, 54, Grant Found. fel, 55-56, Ph.D. (child develop, family rels), 58. Res. assoc. child develop. & family rels, Cornell, 54-55, res. psychologist, 57-59; asst. prof. child develop, WASHINGTON STATE, 59-67, ASSOC. PROF. CHILD & FAMILY STUDIES, 67-, CHMN. DEPT, 64- Psychol. & ed. consult, Proj. Head Start, 65-; consult. & regional coordinator, Nat. Adv. Coun. Ed. Disadvantaged Children, 66-67. AAAS; Nat. Coun. Family Rels; Psychol. Asn; Soc. Res. Child Develop. Personality development; parent-child relationships; development of conscience; motivation in childhood; operant behavior; educational programs for disadvantaged. Publ: Measurement of skill in social perception, In: Talent and society. Address: Dept. of Child & Family Studies, Washington State University, Pullman, Wash. 99163.

GALOTTO, DR. JOHN V(INCENT), b. West New York, N.J, Feb. 1, 29. PSYCHOLOGY. B.S, Fordham, 49; M.A, N.Y. Univ, 55, Ph.D, 61. Asst. instr. philos, Fordham Col, 49-51; intern psychol, Del. State Hosp, Farnhurst, 51-52; jr. psychologist, GUID. CLIN, CATH. CHARITIES, JAMAICA, N.Y, 55-57, sr. psychologist, 57-61, SUPV. PSYCHOLOGIST, 61- Asst. prof, St. Thomas Aquinas Col, 66- Psychologist, St. Agnes Sch, Sparkill, 59-; St. Peter the Apostle Sch, N.J, 60-; practicing psychologist, 62- U.S.A, 52-54. Psychol. Asn. Methodology to help adolescent retarded readers to improve in reading and in personality adjustment; mental health facilities in Africa, Middle East and Asia. Publ: Comparative effectiveness of individual reading therapy and group reading therapy. Address: 42 Hauxhurst Ave, Weehawken, N.J. 07087.

GALVIN, DONALD W, b. Jamaica, N.Y, Jan. 16, 24; m; c. 10. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.S, Georgetown, 46; M.A, Stanford, 58; Colorado, 66-67. Supvr, Fiske Tire Div, U.S. Rubber Export Co, Ltd, 46-47; with Rocke Int. Corp, 50; with Continental Air Defense Command, U.S. Air Force, 51-54, oper. intel, Royal Can. Air Force Defense Command, 54-55, dir. intel, U.S. Air Div, 55-56, asst. prof. polit. sci, U.S. Air Force Acad, 58-61, dir. res. nat. security affairs, 61-63, asst. dir. community rels, N.Am. Air Defense Command, 63-66; DIR. PLANNING & PROG. COORDINATOR ARTS & HUMANITIES, FEDN. ROCKY MT. STATES, 67- With UN Speaker Serv, 61; lectr, exten. div, Colorado, 61-67. V.chmn, Colo. Coun. Arts & Humanities, 65-67. U.S.N, 43-50; U.S.A.F, 50-66, Lt. Col. Polit. Sci. Asn; Int. Studies Asn. Africa and French Morocco; defense policy; national security affairs. Publ: Defense policy, Vol. II; National security and the armed forces, Vols. I, II; co-auth, American defense policy, Johns Hopkins, 65. Address: Route 1, Box 209, Colorado Springs, Colo. 80907.

GALVIN, JOHN P(INGRY), b. Centralia, Wash, Jan. 7, 17; m. 51; c. 2. GEOGRAPHY. B.A, Washington (Seattle), 43. CARTOGRAPHER, U.S. ARMY MAP SERV, D.C, 51-, MIL. INTEL. SPECIALIST, 56- U.S.N, 43-46, Lt. Asn. Am. Geog. Military and physical geography; cartography. Publ: Bulb industry of Western Washington, Econ. Geog; co-auth, Anchorage Alaska area agricultural settlement. Address: 8640 Cromwell Dr, Springfield, Va. 22151.

GALWAY, DR. EDWARD, b. Manchester, N.H, May 25, 16; m. 52; c. 2. CRIMINOLOGY, PENOLOGY. B.A, Brown, 38; M.A, Columbia, 40; Ph.D, Ohio State, 48. Adv. soc. rehab, Children's Village, Dobb's Ferry, N.Y, 38-40; chief probtn. officer, Juvenile Court, Durham, N.C, 40-41; exec. secy. penol, Osborne Asn, N.Y, 48-49; SECRETARIAT MEM. PENOL, UN, 49-, DIR. SOC. DEFENSE RES; INST, 67-, chief sect. soc. defense, 62-65, spec. adv. soc. defense, 66-67. Lectr, N.Y. Univ, 49-50; Tata Sch. Soc. Sci, India, 52. Adv. to Govt. India, 52; Pakistan, 53; Burma, 53; Iran, 62. U.S.N, 41-46, Lt. Comdr. Psychol. Asn. Prevention of juvenile delinquency; social implications of urbanization; rehabilitations of offenders. Address: United Nations Social Defense Research Institute, Via Giulia, 52, Rome, Italy.

GAMBERG, PROF. HERBERT, b. Worcester, Mass, Apr. 10, 33; m. 56; c. 1. SOCIOLOGY. B.A, Brandeis, 55; New Sch. Soc. Res, 55-56; M.A, Princeton, 58. Instr. SOCIOL, Pennsylvania, 60-61; asst. prof, Illinois, 61-65; ASSOC. PROF, DALHOUSIE, 65- Sociol. Asn. Relationship of the university to the urban community. Publ: Modern literary ethos, Soc. Forces; The professional and policy choice, J. Am. Inst. Planners, 5/66. Address: Dept. of Sociology, Dalhousie University, Halifax, N.S, Can.

GAMBLE, DR. ALLEN O(WEN), b. Seoul, Korea, Feb. 8, 10; U.S. citizen; m. 44. PSYCHOLOGY. A.B, Duke, 31; M.A, Birmingham-South. Col, 34; Ph.D.(psychol), California, 49. Head personnel exam. unit, U.S. Dept. Labor, 39-42, chief personnel exam. sect, 45-46; exam. & standards officer, Nat. Adv. Cmt. Aeronaut, 46-55; dir. nat. register sci. & tech. personnel, Nat. Sci. Found, 55-58; manpower eval. & develop. officer, NASA, 58-62, manpower resources officer, 62-64; sr. staff assoc. planning, Nat. Sci. Found, 64-67; CHIEF MANPOWER PLANNING & STUDIES, NAT. INSTS. HEALTH, 67- Mem. NASA team which selected first seven astronauts, 58-59; dir. recruiting & selection NASA prfnls. during major expansion, 58-64. NASA manpower anal. & forecasts award, 62-64. Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. U.S.N.R, 42-45, Lt. Comdr. Fel. AAAS; fel. Psychol. Asn. Creativity in science and engineering; scientific and technical manpower. Address: 6740 Greentree Rd, Bethesda, Md. 20034.

GAMBLE, DR. HAYS B(ENTLEY), b. New York, N.Y, Nov. 18, 22; m. 48; c. 4. RESOURCE ECONOMICS, REGIONAL SCIENCE. B.S, Pa. State, 47, M.S, 62, Ph.D.(agr. econ), 66. Dairy farmer, 47-57; sales engr, Allied Chem. Corp, 57-60; asst. forestry, PA. STATE, 60-63, res. asst. REGIONAL ANAL, 64-66, ASST. DIR, 66- U.S.A.A.F, 42-46, 1st Lt. Econ. Asn; Agr. Econ. Asn; Soc. Am. Foresters; Regional Sci. Asn. Regional analysis and resources development. Co-auth, Economic comparison of timber and wildlife values on farm land, J. Farm. Econ, 63; Direct and indirect economic impact of highway interchange development, Hwy. Res. Bd-Nat. Res. Coun, 66; auth, Economic structure of Sullivan Co, Pennsylvania, Agr. Exp. Sta, Pa. State Univ, 67. Address: Institute for Research on Land and Water Resources, Pennsylvania State University, University Park, Pa. 16802.

GAMBLE, PROF. PHILIP L(YLE), b. Amesbury, Mass, Sept. 25, 05; m. 39; c. 3. ECONOMICS. B.S, Wesleyan, 28, A.M, 29; Ph.D, Cornell, 35. Asst. prof. ECON, MASSACHUSETTS, 35-42, PROF, 42-, head dept, 42-64, acting chmn. dept. bus. admin, 47, acting dean sch. bus. admin, 48-52. Vis. instr, Mt. Holyoke Col, 34-36; prof, Amherst Col, 43; vis. prof, Clark, 60-61; Fulbright lectr, Tunghai, 64-65. Econ. Asn; Arbit. Asn. Taxation of insurance companies; government and public utilities. Address: Dept. of Economics, College of Arts & Sciences, University of Massachusetts, Amherst, Mass. 01002.

GAMBLE, DR. SIDNEY D(AVID), b. Cincinnati, Ohio, July 12, 90. ECONOMICS. B.Litt, Princeton, 12; fel, Preston Sch. Indust, Calif, 15-16; A.M, California, 16; LL.D, Hanover Col, 32; Lake Erie Col, 65; L.H.D, Susquehanna, 64. Asst. econ, California, 16-17; secy int. cmt, YMCA, China, 18-19, 24-27; pres, Princeton in Asia, 30-67. Treas, Nat. Cmt. Maternal Health, 39-66; recording secy. int. cmt, YMCA, 44-; dir, Josiah Macy Jr. Found. Sociol. Asn; Oriental Soc; Royal Geog. Soc. Social survey of Ting Hsien, China. Publ: North China villages social, political and economic activities before 1933, Univ. California, 63; Peking: a social survey; Ting Hsien, a North China rural community. Address: 347 Madison Ave, New York, N.Y. 10017.

GAMBS, PROF. JOHN S(AKE), b. Guatemala, May 14, 99; nat. ECONOMICS. A.B, George Washington, 20, A.M, 24; Ph.D, Columbia, 32. Assoc. soc. sci, teachers col, Columbia, 32-37; adv. int. labor rels, U.S. Dept. Labor, 37-46; prof. ECON, HAMILTON COL, 46-51, Leavenworth prof. & head dept, 51-67, EMER. PROF, 67- Adv. U.S. dels, Int. Labor Orgn, 37-46; consult, Wage Stabilization Bd, 51. Econ. Asn; Asn. Evolutionary Econ.(secy, 62-66, pres, 67). Economic theory and labor problems. Publ: Beyond supply and demand; Man, money and goods; co-auth, Economics and man. Address: 81 College St, Clinton, N.Y. 13323.

GAMELIN, DEAN FRANCIS CLIFFORD, b. St. Paul, Minn, Sept. 13, 17; m. 38; c. 6. PSYCHOLOGY. B.A, Gustavus Adolphus Col, 38; M.A, Minnesota, 46, Ph.D.(psychol), 53; L.H.D, Gettysburg Col, 66. Instr. speech & Eng, Luther Col, 38-40; asst. prof. speech psychol, instr. Eng. & registr, Gustavus Adolphus Col, 40-47; instr. individual orientation, Minnesota, 47-51, personnel worker, 53-55; acting dir. prev. ment. health serv, State Dept. Health, Minn, 51-52; coordinator psychol. servs, Austin Pub. Schs, 55-58; asst. supt, Robbinsdale Pub. Schs, 58-62; secy. col. ed, Bd. Col. Ed. & Church Voc, Luthern Church Am, 62-64; exec. secy, 64-67; V.PRES. ACAD. AFFAIRS & DEAN FACULTY, AUGUSTANA COL.(ILL), 67- Mem. bd. dir, Church Youth Res, 60- U.S.N, 45. Psychol. Asn. Counseling; learning; mental health; developmental psychology; higher education, specifically college administration. Publ: Techniques of counseling; Creative approaches to mental health, Education; Comments on Conant's recommendations, In: Perspectives on the Conant report. Address: 2359 29th St, Rock Island, Ill. 61201.

GAMER, PROF. CARL W(ESLEY), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

GAMES, PROF. PAUL ALLEN, b. Cincinnati, Ohio, Feb. 21, 30; m. 54; c. 2. PSYCHOLOGY. B.A, Cincinnati, 52; fel, Iowa, 56-57, M.A. & Ph.D, 57. Asst. prof. PSYCHOL, OHIO, 57-65, PROF, 65- Grants, Nat. Defense Ed. Act, 61-65; Dept. Health, Ed. & Welfare, 65-68. Consult, State Dept. Natural Resources, 60- U.S.A, 52-54, 1st Lt. Psychol. Asn; Ed. Res. Asn; Psychomet. Soc. Experimental design and analysis; role of memory abilities in learning; factor analysis; computer use in data analysis; education. Publ: Co-auth, Elementary statistics: data analysis for the behavioral sciences, McGraw, 67; auth, A factorial analysis of verbal learning tasks, J. Exp. Psychol, 62; co-auth, Power of AOV or non-normal and normally transformed data, Ed. Psychol. Measurement, 66. Address: Dept. of Psychology, Ohio University, Athens, Ohio 45701.

GAMMAGE, PROF. ALLEN Z, b. Cale, Ark, May 27, 17; m. 42; c. 2. PUBLIC ADMINISTRATION. B.A, Texas, 38, fel, 43-44, M.A, 45, Ph.D, 58. Instr. govt, Texas, 44-47; asst. prof. polit. sci, La. Polytech, 48-50; police admin, SACRAMENTO STATE COL, 52-56, assoc. prof. police admin. & head dept. police sci, 56-66, PROF. GOVT, 66- U.S.A.A.F, 41-43; U.S.A.R, 45-50, Capt. Police and personnel administration; training for the public service. Publ: Basic police report writing; Your future in law enforcement; Police training in the United States. Address: Dept. of Government, Sacramento State College, Sacramento, Calif. 95819.

GAMMILL, PROF. HOMER L(EE), b. Charleston, Ill, Feb. 21, 05; m. 35; c. 2. PSYCHOLOGY. A.B, Colo. State Col, 26; summer, Colo. Agr. & Mech. Col, 35; M.A, Nebraska, 38, Ph.D.(ed. psychol. & measurement), 52; summer, Minnesota, 42. Teacher, pub. sch, Nebr, 26-43; instr. eng. drawing, Ark. Agr. & Mech. Col, 43-44; training dir, Victor Div, Radio Corp. Am, Ind, 44-45; personnel mgr, Gardner-Denver Co, Ill, 45-46; PROF. INDUST. PSYCHOL, DIV. UNIV. EXTEN. & INST. LABOR & INDUST. RELS, ILLINOIS, URBANA, 46- Psychol. Asn; Mgt. Asn. Attitudes; personnel management; guidance. Publ: Psychologic factors in employee training, J. Am. Dietetic Asn; co-auth, Roles in adult education, Adult Leadership & Our concepts of controlling need re-thinking, J. Acad. Mgt. Address: 111 Illini Hall, University of Illinois, Urbana, Ill. 61801.

GAMMON, DR. EDWARD, b. Portland, Ore, Sept. 11, 28; m. 56; c. 1. STATISTICS, LINGUISTICS. B.A, Reed Col, 51; M.A, Oregon, 53; California, 60; Ph.D.(ling), Stanford, 66. Asst. math, Oregon, 52-53; res. engr, Northrop Aircraft Co, 53-56; asst. statist, California, 56-59; res. scientist statist. & ling, Lockheed Missiles & Space Co, 59-65; ASSOC. PROF. LING, FRESNO STATE COL, 65- Res. assoc. ling, Stanford, 65-66, consult, inst. math. studies soc. sci, 66-68. Statist. Asn; Ling. Soc; Inst. Math. Statist; Asn. Mach. Trans. & Comput. Ling. Publ: On representing syntactic structure, Language, 63; Statistical determination of linguistic units, Stanford, 66; Quantitative linguistic typologis, Prof. Tenth Int. Cong. Linguists, 67. Address: Dept. of Linguistics, Fresno State College, Fresno, Calif. 93726.

GAMSON, PROF. WILLIAM A, b. Philadelphia, Pa, Jan. 27, 34; m. 56; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Antioch Col, 55; M.A, Michigan, 56, Ph.D.(soc. psychol), 59. Res. assoc. soc. psychol, Harvard, 59-62; asst. prof. SOCIOL, MICHIGAN, 62-64, assoc. prof, 64-66, PROF, 66- Vis. fel, West. Behav. Sci. Inst, 64. AAAS.(socio-psychol. essay prize, 62); Sociol. Asn; Polit. Sci. Asn; Soc. Psychol. Study Social Issues. Political sociology; social conflict; social movements; international and community conflict. Publ: Power and discontent, Dorsey, 68. Address: Dept. of Sociology, University of Michigan, Ann Arbor, Mich. 48104.

GAMST, DR. FREDERICK C(HARLES), b. New York, N.Y, May 24, 36; m. 61. ANTHROPOLOGY. A.B, California, Los Angeles, 61, Wilson fel, Berkeley, 61-62, Ford Found. fel, 62-63, Soc. Sci. Res. Coun. & Am. Coun. Learned Socs. fel, 63-66, Ph.D.(anthrop), 67. Instr. ANTHROP, RICE, 66-67, ASST. PROF, 67- U.S.A.R, 55-63, Sgt. Anthrop. Asn; Soc. Appl. Anthrop. Ethnology and prehistory of Africa, especially of Ethiopia and the Horn; problems in technological change and economic development; cultural change theory. Address: Dept. of Anthropology, Rice University, Houston, Tex. 77001.

GANDHI, DR. RAJNIKANT S, b. Karachi, Pakistan, Dec. 11, 36; m. 63; c. 1. SOCIOLOGY. B.A, Baroda, 58, M.A, 60; Fulbright grants, Minnesota, 63-64, univ. grant, 66-67, Ph.D.(sociol), 67. Lectr. soc. sci, Baroda, 60-63; ASST. PROF. SOCIOL, San Diego State Col, 66-67; SASKATCHEWAN, 67- Adjustment of Indian students in an American university. Address: Dept. of Sociology, University of Saskatchewan, Saskatoon, Sask, Can.

GANDRE, DR. DONALD ALFRED, b. Sheboygan, Wis, Dec. 2, 31; m. 55; c. 3. GEOGRAPHY. B.S, Arizona State, 56; M.S, Illinois, 61; M.S, Wisconsin, 62, Ph.D.(geog), 65. ASST. PROF. GEOG, WISCONSIN, GREEN BAY, 66- U.S.A.F, 56-59, Capt. Asn. Am. Geog. Transportation on the Great Lakes of North America. Publ: Locational changes of water transport activity in a Great Lakes port-Milwaukee, Inland Seas, 67. Address: Dept. of Geography, University of Wisconsin, Green Bay Center, Green Bay, Wis. 54302.

GANE, PROF. F(RANK) H(ERBERT), b. Wichita, Kans, Apr. 9, 02; m. 25; c. 1. FINANCE. B.S, Kans. Wesleyan, 24; A.M, Kansas, 28; Ph.D, Northwestern, 35. Asst. prof. econ, Morningside Col, 28-30; from fel. to asst. prof. econ. & finance, NORTHWESTERN, 35-48, assoc. prof. FINANCE & BANKING, 48-65, PROF, 65- Investr, Fed. Credit Surv, 35; res. asst, Republican Nat. Cmt, 36, 38; instr, Am. Inst. Banking, Ill, 37-40; vis. prof. from Stanford Univ. Grad. Sch. Bus. assigned to Univ. Philippines, 55-57, vis. prof, Stanford, 61-62. U.S.A.A.F, 42-45. Finance Asn; Econ. Asn. Business finance; commercial banking; money and capital; the double liability provision of banking law. Publ: Co-auth, Financial institutions; co-auth, Managerial problems in finance, 64. Address: Dept. of Finance & Banking, Northwestern University, Evanston, Ill. 60201.

GANGE, JOHN, b. Lindsay, Calif, May 30, 10; m. 37; c. 2. INTERNATIONAL RELATIONS, POLITICAL SCIENCE. A.B, Stanford, 32, A.M, 34. Mem. faculty, East. Wash. Col. Ed. & Univs. Princeton & Stanford, 36-41; mem. staff, Surv. Dominican Repub, Brookings Instn, 41, sr. staff mem. int. studies, instn, 47-48; exec. secy, Anglo-Am. Caribbean Cmn. & cent. secretariat, Off. U.S. Secy. State, 41-47; cent. secretariat, Econ. Coop. Admin, 48-49; prof. for. affairs & dir. Woodrow Wilson Sch. For. Affairs, Virginia, 49-56; Fulbright vis. prof. Am. for. rels, Heidelberg, 56-57; dir, Asia Found, Calif, 57-59, rep, Hong Kong & Philippines, 59-61; DIR. INST. INT. STUDIES, OREGON, 61- Consult, Pub. Admin. Clearing House, 51-53; Govt. Repub. China, 52-53; U.S. Dept. Defense & U.S. Psychol. Strategic Bd, 52. Mem. Cmt. int. exchange persons, Conf. Bd. Assoc. Res. Coun. Int. Studies Asn. (pres, 64-66). American foreign policy and administration. Publ: Co-auth, Major problems of U.S. foreign policy; University research on international affairs; American foreign relations. Address: Institute of International Studies, University of Oregon, Eugene, Ore. 97403.

GANN, DR. LEWIS H, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GANS, DR. A(LTHA) R(OBERT), b. Gans, Pa, Nov. 5, 04; m. 49. AGRICULTURAL ECONOMICS. B.S, Pa. State, 26; M.S, Vermont, 27; Soc. Sci. Res. Coun. fel, 28-29; Ph.D, Cornell, 33. Statistician, Farm Credit Admin, 34-39; dir. res, Fed. Land Bank, Springfield, 40-63; Farm Credit Banks Springfield, 63-65, consult, 66-67; RETIRED. Consult, U.S. Agency Int. Develop, Bolivia, 62-63; Ohio State, summer 65. U.S.A.A.F, 42-46. Farm finance. Publ: Relation of quality to retail price of eggs, Cornell Exp. Sta. Bull; co-auth, Risk problems of production credit associations, Farm Credit Admin, U.S. Dept. Agr. & A proposed agricultural credit program for Nigeria, Mich. State, 8/66. Address: 777 Stony Hill Rd, Wilbraham, Mass. 01095.

GANS, DR. HERBERT J, b. Cologne, Germany, May 7, 27; nat. SOCIOLOGY. Ph.B, Chicago, 47, M.A, 50; Ph.D, Pennsylvania, 57. Asst, Am. Soc. Planning Officials, Ill, 50; asst. planner, Chicago Housing Authority, 50-51; chief res. planner, Pace Assocs, 51-52; field rep, div. slum clearance, U.S. Housing & Home Finance Agency, D.C, 52-53; res. assoc, inst. urban studies, Pennsylvania, 53-58, lectr. city planning, 56-57, asst. prof, 58-61, res. assoc. prof, 61-64; assoc. prof. SOCIOL. & ED, TEACHERS COL, COLUMBIA, 64-66, ADJ. PROF, 66-; SR. STAFF SOCIOLOGIST, CENTER URBAN ED, 66- Asst. sociologist, dept. psychiat, Mass. Gen. Hosp. & Harvard Med. Sch, 57-58. Govt, indust. & ed. consult, 52- Sociol. Asn; Soc. Study Soc. Probs. Sociological community studies; stratification; social planning; planning theory; relationship between policy-making and social science; mass media of communications; popular culture; poverty, segregation and inequality; political sociology. Publ: The urban villagers, Free Press, 62; The Levittowners, Pantheon, 67; People and plans, Basic Books, 68. Address: Center for Urban Education, 105 Madison Ave, New York, N.Y. 10016.

GANT, DR. GEORGE FRANKLIN, b. Concordia, Kans, Apr. 26, 09; m. 32; c. 3. POLITICAL SCIENCE. B.A, Nebraska, 30, M.A, 31; Ph.D, Wisconsin, 34. Mem. staff, Tennessee Valley Authority, 35-37, chief training & ed, 37-40, dir. personnel, 41-46, gen. mgr, 46-51; consult, grad. ed, South. Reg. Ed. Bd, 51-54; rep. in Pakistan, FORD FOUND, 55-58, dir. S. & S.E. Asia Prog, 58-67, SPEC. REP, THAILAND & S.E. ASIAN AFFAIRS, BANGKOK, 67- Consult, Govt. Pakistan, 55. Mem, President's Task Force on For. Aid. 61; Coun. For. Rels. Polit. Sci. Asn; Soc. Pub. Admin; Soc. Int. Develop. Employee relations and training in public service; organization and administration of federal agencies; organization of post-graduate education; overseas development. Publ: Unity and specialization in administration, In: Bridges for cultural understanding; The institution building project, Int. Rev. Admin, Sci, 66; A note on applications of development administration, Pub. Policy, 66. Address: c/o Ford Foundation, Box 436, Bangkok, Thailand.

GANTT, DR. W(ILLIAM) HORSLEY, Neurophysiol, Psychiat, see 11th ed, Phys. & Biol. Vols.

GANTZ, DR. BENJAMIN S, JR, b. Washington, D.C, Feb. 24, 17; m. 44; c. 4. PSYCHOLOGY. A.B, Southern California, 42; Loyola (Ill), 55-56; A.M, Chicago, 56; Ph.D.(psychol), Claremont Grad. Sch. & Grad. Center, 66. Res. psychologist, Naval Weapons Lab, China Lake, Calif, 62; assoc. prof. psychol, Calif. State Polytech. Col, 63-68; RES. PSYCHOLOGIST, CALIF. POLYTECH. FOUND, 65- Vis. lectr, Claremont Grad. Sch. & Grad. Center, 66-67. Consult, U.S. Naval Weapons Center, 65- U.S.N, 41-61, Comdr. Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement. Placement test analysis; creativity training and assessment; organizational climates. Publ: Relevance of research, Selected Acad. Readings, 63; co-auth, Scientific and engineering job analysis, Dept. of Defense Admin. Pub. 130, 65 &

Conflicting objectives in Research and development, I.E.E.E, 67. Address: 967 Butte St, Claremont, Calif. 91711.

GANZ, DR. LEO, Psychol, see 10th ed, Soc. & Behav. Vols.

GANZHORN, PROF. BETTY JANE, b. Ann Arbor, Mich, Oct. 16, 21. PSYCHOLOGY. B.S, Michigan, 46, M.A, 49, Ph.D.(counseling), 52. Psychometrist, Navy Pier Exten, Univ. Illinois, 49-50; asst. counseling, Michigan, 50-51; asst. prof, BALL STATE, 52-56, assoc. prof, 56-61, PROF, 61-63, PSYCHOL, 63-, counsr, 53-63. Consult, Ind. pub. schs, 52-61. Psychol. Asn; Personnel & Guid. Asn. Personality dynamics and adjustment. Publ: Variants of the psychopathic personality, 61 & Character assassin as a student leader, 65, Personnel & Guid. J; Passive-aggressive personality, J. Col. Student Personnel, 63. Address: Dept. of Psychology, Ball State University, Muncie, Ind. 47306.

GARAI, DR. JOSEF E(RNEST), b. Nuremberg, Germany, July 5, 14. PSYCHOLOGY, SOCIOLOGY. B.A, N.Y. Univ, 53, Ph.D, 59. Instr. psychol, Pratt Inst, 57-59; asst. prof. psychol. & sociol, Staten Island Community Col, 59-62; PSYCHOL, PRATT INST, 62-65, assoc. prof, 65-68, PROF, 68-, DIR. YOUTH CORPS, 64- Instr, sch. commerce, N.Y. Univ, 57-58; sch. eng, Cooper Union, 58-59; Juilliard Sch. Music, 58-61; res. assoc, inst. psychol. res, teachers col, Columbia, 60- Mem. prog. cmt, Cong. Scientists on Survival; co-chmn. ment. health cmt, Cent. Brooklyn Coord. Coun, Inc, 65- Adolf Meyer award, Asn. Improv. Ment. Health, 68. Israeli Army, 47-48, Res, 48-57. AAAS; Psychol. Asn; Sociol. Asn; Asn. Social Psychiat; Acad. Polit. & Soc. Sci; N.Y. Acad. Sci; World Fedn. Ment. Health; Int. Coun. Psychol. Current affairs information of college students; human sex differences; ethnic and racial prejudice; improvement of communication skills in teaching; influence of perception on personality; mental health community planning. Publ: Formation of the concept of 'self' and development of sex identification, In: Perceptual development in children, Int. Univs, 66; co-auth, Sex differences in mental and behavioral traits, Genetic Psychol. Monogr, 5/68. Address: Apt. 1505, 155 W. 68th St, New York, N.Y. 10023.

GARBARINO, PROF. ANGELO JAMES, Agr. Econ, Mkt, see 10th ed, Soc. & Behav. Vols.

GARBARINO, PROF. JOSEPH W(ILLIAM), b. Medina, N.Y, Dec. 7, 19. ECONOMICS. A.B, Duquesne, 42; A.M, Harvard, 47, fel, 47-49, Ph.D, 49. From assoc. prof. bus. admin. & res. assoc. to PROF. BUS. ADMIN. & RES. ECONOMIST, CALIFORNIA, BERKELEY, 49- Econ. Asn. Labor economics; theory of inter-industry wage structure variation; health plans and collective bargaining; wage policy and long term contracts. Address: Institute of Industrial Relations, University of California, Berkeley, Calif. 94720.

GARBER, DR. ROBERT B(URNETT), b. Staunton, Va, Jan. 8, 16; m. 40; c. 2. PSYCHOLOGY. A.B, Bridgewater Col, 37; B.D, Union Theol. Sem, 41; M.A, N.Y. Univ, 43, Ph.D.(psychol), 52. Voc. counsr. intern, YMCA, New York, 43-44; chmn. dept. psychol, Centenary Jr. Col, 44-54; PSYCHOL. CONSULT. MGT. EVAL. & DEVELOP, ROHRER, HIBLER & REPLOGLE, 54- Instr, sch. ed, Rutgers, 51-54. Psychol. Asn. Personality assessment and development; attitudes; therapeutic technics. Publ: Influence of cognitive and affective factors on the learning and retention of attitudinal materials, J. Abnorm & Soc. Psychol; Newer technics in personnel selection, Proc. Asn. Nat. Advertisers. Address: 27 Bedford Place, Glen Rock, N.J. 07452.

GARBIN, DR. ALBENO PATRICK, b. Girard, Ill, June 21, 32; m. 63; c. 2. SOCIOLOGY. A.B, Blackburn Col, 56; M.A, La. State, 59, Ph.D.(sociol), 63. Instr. SOCIOL, Munic. Univ. Omaha, 61-63, asst. prof, 63-64; Fla. State, 64-66; ASSOC. PROF, OHIO STATE, 66-, SPECIALIST OCCUP. SOCIOL, CENTER VOC. & TECH ED, 66- Proj. res. dir, hosp. & welfare bd, Hillsborough County, Fla, 65-66. U.S.A, 54-56. Sociol. Asn. Publ: Co-auth, Occupational prestige: an empirical study of its correlates, 61 & Occupational prestige and its correlates: a re-examination, 66, Soc. Forces; Intra-plant mobility of Negro and White workers, Am. J. Sociol, 65. Address: Center for Vocational & Technical Education, Ohio State University, Columbus, Ohio 43212.

GARBUNY, DR. SIEGFRIED, b. Berlin, Germany, Mar. 28, 15; nat. ECONOMICS. Dipl, Berlin, 36; D.Econ, Freiburg, 57; Columbia, 39-41. For. serv. reserve officer, U.S. Dept. State, 55-60; SR. ECONOMIST & ACTING CHIEF UNIT INT. ECON, PAN-AM. UNION, 61-, ASSOC. PROF. ECON, GRAD. SCH, GEORGETOWN, 62-, RES. PRIN, CENTER STRATEGIC STUDIES, 66- With Off. Strategic Serv, 43-45. Econ. Asn. International economics and finance, especially Latin American economics. Publ: Social scientists of today, Am. Asn. Univ. Prof. Bull; contrib, Handbook of Latin American studies. Address: 510 21st St. N.W, Washington, D.C. 20006.

GARCEAU, DR. OLIVER, b. Boston, Mass, Nov. 22, 11; m. 34; c. 1. POLITICAL SCIENCE. A.B, Harvard, 33, M.B.A, 35, A.M, 39, Ph.D.(polit. sci), 40. Instr. govt, Harvard, 35-41, 45-46, asst. prof, 46; assoc. prof, Maine, 46-47; staff assoc. pub. library inquiry, Soc. Sci. Res. Coun, 47-48; prof. govt, Bennington Col, 48-58; res. prof, Harvard, 59-60; ACAD. RES. & WRITER, 61- Soc. Sci. Res. Coun. fel, 45-46, mem. cmt. polit. behav, 50-64; exec. assoc. & consult, Ford Found, 55-57; consult, Gov. Task Force Govt. Reorgn, Maine, 67- U.S.N.R, 41-45, Lt. Comdr. Polit. Sci. Asn. Political process; interest groups; political economy. Publ: Political life of the American Medical Association; Public library in the political process; co-auth. & ed, Political research and political theory, Harvard, 68. Address: Box 12, East Boothbay, Maine 04544.

GARCIA, PROF. F(ERDINAND) L(AWRENCE), b. Tampa, Fla, Aug. 1, 09; m. 46. ECONOMICS. B.S, N.Y. Univ, 38; LL.M, Nat. Univ, 51; M.A, Fordham, 67; J.D, Brooklyn Law Sch, 67. Instr. bus. admin, Southeastern, 50-53, asst. prof. finance & bus, 53-54, prof, 54-56; ASST. PROF. BUS. ADMIN, Georgetown, 56-61; FORDHAM, 61- Lectr, Am. Savings & Loan Inst, 55-56; American Univ, 56-58; vis. asst. prof, grad. sch. bus. admin, N.Y. Univ, 63- U.S.A, 42-46, 50-53, Lt. Col. Econ. Asn; Finance Asn; Bar Asn; Acad. Econ. & Polit. Sci. Management; banking; investment analysis. Publ: How to analyze a bank statement; ed, Encyclopedia of banking and finance. Address: Thornycroft, Garth Rd, Scarsdale, N.Y. 10583.

GARCIA, DR. JOHN, b. California, June 12, 17; m; c. 3. PSYCHOLOGY. M.A, California, 49, Ph.D.(psychol), Berkeley, 65. Exp. & physiol. psychologist, U.S. Naval Radiol. Defense Lab, 51-59; asst. prof. psychol, Long Beach State Col, 60-65; ASSOC. BIOLOGIST, NEUROSURG. SERV, MASS. GEN. HOSP, 65- Lectr, Harvard Med. Sch, 65- U.S.A.A.F, 42-46. AAAS; Psychol. Asn. Experimental and physiological psychology. Publ: Appetites, addictions and aversions: a model for visceral memory, Adv. Biol. Psychiat, 67; co-auth, Conditioned aversion to saccharin resulting from exposure to gamma radiation, Sci; Use of ionizing radiation as a motivating stimulus, Psychol. Rev. Address: Neurosurgical Service, Massachusetts General Hospital, Boston, Mass. 02114.

GARCIA, DR. THOMAS V(ELANIE), b. Broussard, La, Feb. 17, 30; m. 59; c. 1. POLITICAL SCIENCE. B.S.Ed, Southwestern Louisiana, 57; M.A, La. State, 64; Ph.D.(govt), Massachusetts, Amherst, 67. Instr. polit. sci, Georgia, 64-65; training specialist, off. career develop, U.S. CIVIL SERV. CMN, 65-67, SUPVRY. EMPLOYEE DEVELOP. SPECIALIST, GEN. MGT. TRAINING CENTER, 67- U.S.A, 51-53. Polit. Sci. Asn; Soc. Pub. Admin; Int. City Mgr. Asn. National and state political parties; electoral behavior; comparative public administration. Address: General Management Training Center, U.S. Civil Service Commission, Washington, D.C. 20415.

GARCIA-MORA, PROF. MANUEL R(AMON), Int. Law, see 10th ed, Soc. & Behav. Vols, deceased.

GARDEZI, DR. HASSAN NAWAZ, b. Mianwali, Pakistan, Feb. 19, 33; m; c. 2. SOCIOLOGY. B.A, Govt. Col, Lahore, Pakistan, 54; M.A, Punjab, Pakistan, 57; Ph.D.(sociol), Washington State, 61. Lectr. SOCIOL, Punjab, Pakistan, 57-58 & 61-62, reader & chmn. dept, 62-65; vis. prof, Hanover Col, 65-66; ASST. PROF, PA. STATE, 66-, Cent. Res. Fund. res. grant. Consult, W. Pakistan Pub. Serv. Cmn, 62-65. Assoc. mem, Am. Sociol. Asn; Pop. Asn. Am; Pakistan Sociol. Asn.(secy, pres). Comparative urbanization; sociology of development. Publ: Ed, Sociology in Pakistan, Punjab, Pakistan, 66; auth, Industrial patterns and urbanization in the United States and Indo-Pakistan subcontinent, Pakistan Sociol. Studies, 65; co-auth, Sociol class and school attendance in a metropolitan city of Pakistan, Sociol. Ed, fall 67. Address: Dept. of Sociology, Pennsylvania State University, University Park, Pa. 16802.

GARDINER, DR. JEAN S(AWYER), b. Topeka, Kans, May 14, 21. PSYCHOLOGY. Ph.D.(psychol), Kansas, 52. Clin. psychologist, Vet. Admin. Hosp, Topeka, Kans, 47-51; Vet. Admin. Center, Wadsworth, 51-52; chief psychologist, Ark. State Hosp, 52-56; FAIRHILL PSYCHIAT. HOSP, 56-65, ADMIN-STR. RES, 65- Vis. lectr, sch. med, Arkansas, 55-56. Consult, psychol. clin, Kent State, 61- AAAS; Psychol. Asn. Personality theory; interpersonal dynamics; psychotherapeutic theory and methods. Address: 12200 Fairhill Rd, Cleveland, Ohio 44120.

GARDINER, DR. JOHN A(NDREW), b. Niagara Falls, N.Y, July 10, 37; m. 61; c. 2. POLITICAL SCIENCE. B.A, Princeton, 59; M.A, Yale, 62; LL.B, Harvard, 63, Ph.D.(govt), 66. ASST. PROF. POLIT. SCI, WISCONSIN, 65- Russell Sage Found. res. grant, 66-67. Consult, task force on organized crime, President's Cmn. Law Enforcement & Admin. Justice, 66-67. Polit. Sci. Asn. Urban politics; law enforcement. Publ: Co-auth, Wincanton: the politics of corruption, Task Force Report: Organized Crime, 5/67; auth, Public attitudes toward gambling and corruption, Ann, 11/67; Police enforcement of traffic laws: a comparative analysis, City Polit. & Pub. Policy, 68. Address: Dept. of Political Science, University of Wisconsin, Madison, Wis. 53706.

GARDNER, DR. BEATRICE T, b. Vienna, Austria, July 13, 33; nat; m. 61. PSYCHOLOGY. A.B, Radcliffe Col, 54; M.Sc, Brown, 56, Nat. Sci. Found. fels, 54-55, 56-58, univ. fel, 55-56; Ph.D.(zool), Oxford, 59. Instr. psychol, Wellesley Col, 59-62; res. assoc. zool, Tufts, 62-63; RES. ASSOC. PSYCHOL. & LECTR, NEVADA, 63- Res. career develop. award, Pub. Health Serv, 66- Psychol. Asn; Psychonom. Soc; Animal Behavior Soc. Motivation; comparative psychology; physiological psychology; verbal behavior. Publ: Normal feeding behavior of three spined stickleback, Behavior, 60; Hunger and sequential responses in the hunting behavior of salticid spiders, J. Comp. Physiol. Psychol, 64; co-auth, A mechanical lure that is highly maneuverable, Psychonomic Sci, 67. Address: Dept. of Psychology, University of Nevada, Reno, Nev. 89507.

GARDNER, PROF. B(RIGHAM) DELWORTH, b. Afton, Wyo, Sept. 7, 28; m. 51; c. 3. AGRICULTURAL ECONOMICS. B.S, Wyoming, 52, M.S, 54; Sears Roebuck fel. & Ph.D, Chicago, 60. Instr. bus. mgt, Brigham Young, 54-55; asst. prof. econ, Colorado State, 57-58; assoc. prof, Brigham Young, 59-62; AGR. ECON, UTAH STATE, 62-64, PROF, 64- Ford Found. faculty res. fel, 61-62; vis. prof, California, Berkeley, 65. Consult, U.S. Agency Int. Develop, Bolivia, 63, 64, 66; Charles T. Main Int, Ecuador, 66. Mem, Governor's cmt. aging, Utah, 59-60. Econ. Asn; Agr. Econ. Asn. Economics of natural resources; multiple uses of land and water resources; returns and costs of range revegetation practices. Publ: Co-auth, The economics of water resource development and conservation, Utah State Univ, 65; Extractive resources and taxation, Univ. Wisconsin, 67; auth, State water planning—goals and analytical approaches, Utah State Agr. Exp. Sta. Bull, 66. Address: Dept. of Agricultural Economics, Utah State University, Logan, Utah 84321.

GARDNER, DR. BURLEIGH B(RADFORD), b. Galveston, Tex, Dec. 4, 02; m. 33; c. 3. SOCIAL ANTHROPOLOGY. B.A, Texas, 30, M.A, 31; Ph.D. (anthrop), Harvard, 36. Res. grant, cmn. indust. psychol, Harvard, 33-35; instr. sociol, Brown, 35-36; res. sociologist, soil conserv. serv, U.S. Dept. Agr, N.Mex, 36-37; sect. head personnel couns. & res, West. Elec. Co, Ill, 37-42; asst. prof, sch. bus. & exec. secy, cmt. human rels. in indust, Chicago, 43-46; PRES. & CHMN. BD, SOC. RES, INC, 46- Soc. Appl. Anthrop; Mkt. Asn; N.Y. Acad. Sci. Business organization and structure; motivation research. Publ: Deep South, a socio-anthropological study of caste and class; Human relations in industry. Address: Social Research, Inc, 740 N. Rush, Chicago, Ill. 60611.

GARDNER, PROF. D(AVID) BRUCE, b. Salt Lake City, Utah, Dec. 7, 24; m. 45; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Utah, 48, M.S, 49; Ph.D. (ed. psychol), Cornell, 52. Asst. prof. child develop. & psychol, Utah State, 51-53, assoc. prof. child develop. & psychol. & head dept. child develop, 53-55; assoc. prof. child develop. & psychol, Iowa State, 55-60, prof, 60-66, head child develop. dept, 66-67; PROF. PSYCHOL. & DIR. BEHAV. DEVELOP. LAB, DENVER, 67- Vis. prof, California, Santa Barbara, 53, Los Angeles, 57; Colorado State, 59; Cornell, 60; Utah State, 61; Oregon State, 62; summer res. fel, lab. exp. design, Wisconsin, Madison, 65. U.S.A.A.F, 43-46, 1st Lt. Psychol. Asn; Soc. Res. Child Develop. Cognitive development; personality development in early childhood. Publ: Development in early childhood: the preschool years, Harper, 64. Address: Behavior Development Lab, University of Denver, Denver, Colo. 80210.

GARDNER, DR. DAVID MORGAN, b. Des Moines, Iowa, Sept. 29, 36; m. 58; c. 2. BUSINESS ADMINISTRATION. B.S.C, Iowa, 58; M.S, Minnesota, 64, Ph.D.(bus. admin), 67. ASST. PROF. MKT, ILLINOIS, URBANA, 66- Univ. Illinois, Urbana Undergrad. Instructional Award, summer 68. Army Nat. Guard, 54-63. Psychol. Asn; Asn. Pub. Opinion Res. The application of experimental methods to marketing problems especially consumer behavior. Publ: Co-auth, World food needs and the new proteins, Econ. Develop. & Culture Change, 68. Address: Dept. of Marketing, University of Illinois College of Commerce, Urbana, Ill. 61801.

GARDNER, DR. ELMER A, b. Newark, N.J, Apr. 9, 26; m; c. 4. PSYCHIATRY. B.A, Syracuse, 49; M.D, State Univ. N.Y, 54. Asst. psychiatrist, Strong Mem. Hosp, Rochester, N.Y, 59-63, assoc. psychiatrist, 63-66; MEM. FACULTY PSYCHIAT. & DIR. COMMUNITY MENT. HEALTH. CENTER, HEALTH SCI. CENTER, TEMPLE, 66- Staff psychiatrist, Monroe County Infirmary, Rochester, 59-63; dir, Psychiat. Court Clin, Monroe County, 64-66. Mem. subcmt. use vital & health data for epidemiol. res, Cmt. Vital & Health Statist, 65-66; rev. cmt, epidemiol. center, Nat. Inst. Ment. Health, 68; sect. epidemiol. & community psychiat, World Psychiat. Asn, 68. U.S.N, 44-46. Geriat. Soc; Psychiat. Asn; Pub. Health Asn; Am. Med. Asn; Asn. Am. Med. Cols; Geront. Soc. Psychiatric epidemiology and the development of centralized data systems for epidemiological use; social psychiatry and development of model community mental health. Publ: Concepts of mental disorder, Nat. Center Health Statist, 66; co-auth, Emergent approaches to mental health problems, Meredith, 67; auth, Use of a psychiatric case register in the planning and evaluation of a mental health program, Am. Psychiat. Asn. Res. Report 22, 4/67. Address: Community Mental Health Center, Temple University Health Sciences Center, 1428 W. Ontario St, Philadelphia, Pa. 19140.

GARDNER. PROF. ERIC F(REEMAN), b. Brooklyn, N.S, Mar. 16, 13; U.S. citizen; m. EDUCATIONAL MEASUREMENT, STATISTICS. A.B, Harvard, 35, Ed.D, 47; Ed.M, Boston Teachers Col, 36; Brown, 37-38; cert, Michigan, 44. Asst. prof. ed. statist, SCH. ED, SYRACUSE, 47-49, assoc. prof, 49-53, PROF. PSYCHOL. & ED, 53-, CHMN. DEPT. PSYCHOL. & DIR. PSYCHOL. RES. CENTER, 61- U.S.N, 42-45. AAAS; Statist. Asn; Psychol. Asn; Psychomet. Soc; Biomet. Soc; Inst. Math. Statist. Determination of scales and tests for psychological and educational measurement. Address: Dept. of Psychology, 331 Huntington Hall, Syracuse University, Syracuse, N.Y. 13210.

GARDNER, DR. GEORGE E(DWARD), b. West Bridgewater, Mass, Aug. 12, 03; m. 35; c. 2. PSYCHOLOGY. A.B, Dartmouth Col, 25; Ed.M, Harvard, 26, Ph.D.(ed. psychol), 30, M.D, 37. Asst. psychol, HARVARD, 29-31, LECTR. SOC. RELS, 46-, PROF. PSYCHIAT, MED. SCH, 65-, asst. pediat, 41-46; lectr, 46-53, clin. prof, 53-65. Res. fel, Mass. Gen. Hosp, 37, house physician, 37-38, res. physician, 38-39; sr. psychiatrist, McLean Hosp, Waverly, Mass, 39; Commonwealth fel, Judge Baker Guid. Center, 39-40, staff psychiatrist, 40-41, dir, 41-; lectr, Smith Col, 39-51-; assoc. prof, sch. med, Boston, 46-53, lectr, 53-; psychiatrist-in-chief Children's Hosp. Med. Center, 53- Consult, res. study sect, U.S. Pub. Health Serv, 53-57. Pres, Am. Asn. Psychiat. Clins. Children, 51-53. Med.C, 43-46, Comdr. Psychol. Asn; Psychiat. Asn; Psychoanal. Asn; Am. Med. Asn; Orthopsychiat. Asn.(ed, J. Orthopsychiat, 48-62); Acad. Child Psychiat.(pres, 53-55). Child development and psychopathology; juvenile delinquency; psychiatry. Publ: Ed, Case studies in childhood emotional disabilities; auth, American child psychiatric clinics, Ment. Health in U.S; Evaluation of therapeutic results in child guidance programs, Psychiat. Treatment. Address: 295 Longwood Ave, Boston, Mass. 02115.

GARDNER, DR. GEORGE HENRY, b. Denver, Colo, Nov. 22, 09; m. 35; c. 4. SOCIOLOGY, CULTURAL ANTHROPOLOGY. B.A, Princeton, 31, Ph.D. (sociol), 61; B.D, Union Theol. Sem, 36. Asst. dir. rural ed, Am. Farm Sch, Salonica, Greece, 36-41; prog. dir, United Serv. Orgn, N.J, 41-43; field officer, UNRRA Greece, 44-45, acting dir, 45, regional dir, 46-47; acting dir. mission, U.S. For. Relief Mission, Trieste, 48; asst. prof. SOCIOL, American Univ. Cairo, 49-56, ASSOC. PROF, 56-62; ALFRED, 62-, Res. Found. summer res. award, 66. Am. Asn. Mid. East Studies faculty fel, Inst. Mid. East Studies, Univ. Utah, summer 63; Nat. Defense For. Lang. fel. Arabic, 64-65; State Univ. N.Y. Binghamton-Hebrew Univ. prog. fel, Hebrew Univ, Israel, summer 67. Mem. bd. trustees, Am. Asn. Mid. East Studies, 63- AAAS; Sociol. Asn; Mid. East Inst; Royal Cent. Asian Soc. Middle East society; Arab Socialism; modernization versus core culture; historical, cultural and environmental roots of the Arab-Israeli conflict. Publ: Co-auth, Arab socialism, Brill, Leiden, Netherlands, 68; auth, Cross cultural communication, J. Soc. Psychol, 62; co-auth, Al-shu'ūbiyyah, Mid. E. J, summer 66. Address: Dept. of Sociology, Alfred University, Alfred, N.Y. 14802.

GARDNER, DR. IVA C(OX), Psychol, see 10th ed, Soc. & Behav. Vols.

GARDNER, PROF. JAMES ALEXANDER, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GARDNER, DR. JOHN W(ILLIAM), b. Los Angeles, Calif, Oct. 8, 12; m. 34; c. 2. PSYCHOLOGY. A.B, Stanford, 35, M.A, 36; Ph.D.(psychol), California, 38. Asst. psychol, California, 36-38; instr, Conn. Col, 38-40; asst. prof, Mt. Holyoke Col, 40-42; head Latin Am. Sect, for. broadcast intel. serv, Fed. Commun. Cmn, 42-43; mem. staff, Carnegie Corp, 46-47, exec. assoc, 47-49, v.pres, 49-55, pres, 55-67, Carnegie Found. adv. of teaching, 55-67; secy, Dept. Health, Ed. & Welfare, 65-68; CONSULT, CARNEGIE CORP, 68-; CHMN, URBAN COALITION, 68- Vis. prof, Mass. Inst. Tech, 68. Trustee, Am. Asn. Adv. Sci, 63-65; Rockefeller & Stanford Univs, 68. Presidential Medal of Freedom, 64; Pub. Welfare Medal, Nat. Acad. Sci. U.S.M.C, 43-46. AAAS; fel. Psychol. Asn. Publ: Excellence, 61, Self-renewal, 63 & No easy victories, 68, Harper. Address: 5325 Kenwood Ave, Chevy Chase, Md. 20015.

GARDNER, KELSEY B(EELER), b. Leonardville, Kans, July 6, 92; m. 24; c. 2. AGRICULTURAL ECONOMICS. A.B, Washburn Col, 20; M.B.A, Harvard, 22. Agr. economist, bur. agr. econ, U.S. Dept. Agr, 22-29; economist in charge, fruit & veg. sect, Fed. Farm Bd, 29-32; economist, coop. & res. div, Farm Credit Admin, 33-39, chief bus. admin. br, 39-54; dir. mgt. serv. div. Farmer Coop. Serv, U.S. Dept. Agr, 54-62; RETIRED. Consult, agr. coop. Head, U.S. del, Caribbean Cmn. & Food & Agr. Orgn, UN, Trinidad, 51, Brit. Guiana, 56; adv, U.S. del, W.Indian Conf, B.W.I, 57; U.S. Dept. State observ, tech. meeting coops, S.Pac. Cmn, Papua & New Guinea, 58, S.Pac. Cmn-Food & Agr. Orgn, New Caledonia, 61; mem. U.S. del, agr. confs, Orgn. Am. States-Food & Agr. Orgn, Mex, 60. Distinguished serv. award, Am. Inst. Coop, 48. U.S.A.A.F, 17-19, 2nd Lt. Econ. Asn; Agr. Econ. Asn. Organization and operating problems of farmer cooperatives, especially financing, membership, taxation, merchandising, public relations, transportation and statistics of farmer cooperatives. Publ: Terminal fruit auctions as marketing agencies for farmers' cooperatives; co-auth, Sunkist Growers, Inc: a California adventure in agricultural cooperation; Methods of financing farmer cooperatives. Address: 7527 17th St, N.W, Washington, D.C. 20012.

GARDNER, DR. LOUIS E, b. Cincinnati, Ohio, Oct. 8, 35; m. 59; c. 3. PSYCHOLOGY. B.S, Xavier (Ohio), 59, M.A, 63; Ph.D.(psychol), Mich. State, 66. Nat. Insts. Health fel, 66-67; ASST. PROF. PSYCHOL, CREIGHTON, 67-U.S.A, 55-57. Psychol. Asn. Comparative psychology; comparisons across species of habituation and retention. Publ: Co-auth, Studies of behavior of earthworms, In: Laboratory manual of animal behavior, Freeman, (in press); auth, Habituation of a dual-component response in Lumbricus terrestris, J. Comp. & Physiol. Psychol, (in press). Address: Dept. of Psychology, Creighton University, Omaha, Nebr. 68131.

GARDNER, DR. LUCY (ANN), b. Athens, Greece, Jan. 16, 39; U.S. citizen. PSYCHOLOGY. B.A, Oberlin Col, 59, M.A, 62; Ph.D.(psychol), McGill, 66. ASST. PROF. PSYCHOL, ALFRED, 66- Psychol. Asn. Role of the brain in behavior. Address: Dept. of Psychology, Alfred University, Alfred, N.Y. 14802.

GARDNER, DR. MALCOLM L(eGRANDE), b. Charleston, S.C, June 24, 20; m. 47; c. 5. PSYCHOLOGY. Ph.D.(clin. psychol), Illinois, 55. Psychol. intern, Vet. Admin. Hosp, Danville, 47-51; asst. U.S. Air Force contract, Illinois, 51-54; from instr. to ASST. PROF. PSYCHIAT, COL. MED, OHIO STATE, 54-, CHIEF PSYCHOLOGIST, ADULT PSYCHIAT. CLIN, 66- Staff psychologist & dir. psychol. serv, med. center, Columbus Psychiat. Inst. & Hosp, 54-66. Consult, Ohio State Univ. Res. Found, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 66. U.S.A.A.F, 42-45, Lt. Psychol. Asn. Clinical psychology; learning theory; systems research. Address: Adult Psychiatry Clinic, Ohio State University, 473 W. 12th Ave, Columbus, Ohio 43210.

GARDNER, DR. PETER M(ICHAEL), b. Nuneaton, Eng, Nov. 29, 38; U.S. citizen; m. 61; c. 2. ANTHROPOLOGY. B.A, Kansas, 59; G.L. Harrison univ. scholar, Pennsylvania, 59-60, Nat. Defense Ed. Act For. Lang. fel, 61-62, M.A, 62, Ford Found. For. Area fel, 62-64, Ph.D.(anthrop), 65. Teaching asst. ANTHROP, Pennsylvania, 60-61; lectr, Beaver Col, 65; ASST. PROF, TEXAS, AUSTIN, 65- Asst. prof, Pennsylvania, summer 65; univ. res. inst. grant, Texas, 66, 67; faculty res. fel, Am. Inst. Indian Studies, 67-68. Fel. Anthrop. Asn; Ethnol. Soc. Ecology of food-collectors; structure of social and ideational individualism; means of conceptualizing the culture of India. Publ: Symmetric respect and memorate knowledge: the structure and ecology of individualistic culture, Southwest. J. Anthrop, 22: 389-415; Toward a componential model of Indian caste, J. Soc. Res, 11:37-48; Paliyan social structure, In: Conference on band organization, Nat. Mus. Can. Bull, (in press). Address: Dept. of Anthropology, University of Texas, Austin, Tex. 78712.

GARDNER, DR. RALPH A(HIGA), b. Somerset, Ky, Oct. 15, 10; m. 43; c. 4. PSYCHOLOGY. A.B, Kentucky, 35, M.A, 37; Ph.D.(philos), Duke, 42. Voc. counsr, regional off, Vet. Admin, Louisville, Ky, 46-48, personal counsr, 48-55, chief counseling sect, Winston-Salem, N.C, 55-60, voc. counseling, training & adjust. sect, 60-62, COORDINATOR COUNSELING, VET. ADMIN. HOSP, SALISBURY, 62- Lectr, southeast. center, Indiana, 54. U.S.N.R, 43-46. Psychol. Asn. Counseling; philosophy of science. Publ: A community work therapy program, N.C. J. Ment. Health, winter 67. Address: Woodleaf, N.C. 27054.

GARDNER, PROF. RICHARD NEWTON, b. New York, N.Y, July 9, 27; m. 56; c. 1. LAW; ECONOMICS. A.B, Harvard, 48; LL.B, Yale, 51; Ph.D.(int. econ), Oxford, 54. Attorney, Coudert Bros, N.Y, 54-57; assoc. prof. law, COLUMBIA, 57-60, prof, 60-66, HENRY L. MOSES PROF. LAW & INT. ORGN, 66- Dep. asst. to Secy. State Int. Orgn. Affairs, 61- Mem. Coun. For. Rels. U.S.A, 45-46, Sgt. Am. Econ. Asn; Royal Econ. Soc. International law and organization, especially economic and political organization. Publ: New directions in U.S. foreign economic policy; Sterling-dollar diplomacy. Address: School of Law, Columbia University, 435 N. 116th St, New York, N.Y. 10027.

GARDNER, DR. RILEY W(ETHERELL), b. Ree Heights, S.Dak, Oct. 31, 21; m. 50; c. 2. PSYCHOLOGY. B.A, Yankton Col, 45; Ph.D, Kansas, 52. Asst, MENNINGER FOUND, 50-51, asst. psychologist, 51-53, psychologist, 53-62, sr. psychologist, 62-, DIR, COGNITION PROJ, 58- U.S.A, 46-48, Sgt. Psychol. Asn. Personality organization; individual differences in cognition; psychological concomitants of brain damage. Publ: Co-auth, Personality organization in cognitive controls and intellectual abilities; Cognitive control; Personality development at preadolescence. Address: Menninger Foundation, Box 829, Topeka, Kans. 66601.

GARDNER, DR. R(OBERT) C(HARLES), b. Edmonton, Alta, Aug. 5, 34; m. 58; c. 3. PSYCHOLOGY. B.Sc, Alberta, 56; M.Sc, McGill, 58, Ph.D.(psychol), 60. Res. asst. PSYCHOL, grad. sch. ed, Harvard, 59-60; res. assoc, McGill, 60-61; lectr, WESTERN ONTARIO, 61-62, asst. prof, 62-66, ASSOC. PROF, 66- Am. Psychol. Asn; Can. Psychol. Asn. Motivational and ability variables in second-language acquisition; statistical aspects of language behavior; ethnic stereotypes and intergroup communication. Publ: Co-auth, Motivational variables in second-language acquisition, Can. J. Psychol, 59; Language aptitude, intelligence, and second-language achievement, J. Ed. Psychol, 65; Dimensions of oral and written language fluency, J. Verbal Learning & Verbal Behavior. Address: Dept. of Psychology, University of Western Ontario, London, Ont, Can.

GARDNER, DR. R(OBERT) V, b. Alva, Okla, July 21, 20. SOCIOLOGY, ANTHROPOLOGY. A.B, Northwest. State Col, 42; A.M, Iowa, 44; Ph.D, Illinois, 59. Instr. SOCIOL, Tulsa, 44-45; asst, Illinois, 45-49; asst. prof, R.I. State Col, 49-51, RHODE ISLAND, 51-59, ASSOC. PROF, 59-, ASSOC. DEAN COL. ARTS & SCI, 67- Sociol. Asn. Address: Dept. of Sociology, University of Rhode Island, Kingston, R.I. 02881.

GARDNER, RONALD M(acGREGOR), b. Marblehead, Mass, Feb. 9, 15; m. 43; c. 1. STATISTICS, BUSINESS MANAGEMENT. B.B.A, Southeastern, 58, M.B.A, 59. Statistician, bur. employ. security, Soc. Security Admin, 41-45, soc. sci. analyst, bur. res. & statist, 45-48; statistician, nat. income div, U.S. Dept. Commerce, 48-54; STATISTICIAN, BUR. FED. CREDIT UNIONS, DEPT. HEALTH, ED. & WELFARE, 55- Statist. Asn. Financial and statistical data pertaining to credit unions and other financial institutions. Address: Bureau of Federal Credit Unions, 633 Indiana Ave. N.W, Washington, D.C. 20005.

GARDNER, PROF. WALLACE W(ILLIAM), Econ, see 10th ed, Soc. & Behav. Vols.

GARDNER, DR. WARREN H(ENRY), Speech, see 11th ed, Phys. & Biol. Vols.

GARDNER, DR. WAYLAND DOWNING, b. Elgin, Nebr, May 16, 28; m. 53; c. 4. ECONOMICS. A.B, Doane Col, 50; M.A, Wisconsin, 51, Ph.D, 58. Asst. prof, econ, N.Dak. State, 58-63; ASSOC. PROF. agr. econ, Maryland, 63-64; ECON. WESTERN MICHIGAN, 64- U.S.A, 53-54, 1st Lt. Econ. Asn. Federal, state and local taxation; urban economics. Publ: Underreporting of farm income: problems and recommendations, Tax Revision Compendium; Farm income tax compliance, J. Farm Econ; The usefulness of comparative studies of state tax systems, Nat. Tax J. Address: Dept. of Economics, Western Michigan University, Kalamazoo, Mich. 49001.

GARDNER, PROF. WILLIAM R(AY), JR, Econ, see 10th ed, Soc. & Behav. Vols.

GAREAU, DR. FREDERICK HENRY, b. Toledo, Ohio, Feb. 19, 23; m. 49; c. 2. INTERNATIONAL RELATIONS, POLITICAL SCIENCE. B.A, Toledo, 47, fel, 47-49; lic. ès sci, Geneva, 50; Ph.D.(int. rels. & orgn), American Univ, 57. Labor economist, U.S. Bur. Labor Statist, 51-52; air intel. specialist, target div, off. intel, U.S. Dept. Air Force, 52-57; asst. prof. polit. sci, Mississippi, 57-60, assoc. prof, 60-63; asst. prof. GOVT, FLA. STATE, 63-67, ASSOC. PROF, 67- U.S.N, 43-46. Polit. Sci. Asn; African Studies Asn. Balance of power, nuclear deterrence and Africa. Publ: Balance of power and nuclear deterrence; Diplomatic maneuvering in west black Africa; Morgenthau's plan for industrial disarmament in Germany. Address: Dept. of Government, Florida State University, Tallahassee, Fla. 32306.

GARETS, PROF. WALLACE E(ARL), b. Grangeville, Idaho, Aug. 10, 16. JOURNALISM. B.S, Univ. Idaho, 38, M.S, 47; City Col. New York, 42-43. Asst, Univ. Idaho, 38-39; instr. JOUR, Idaho State Col, 46-47, asst. prof, 47-55, assoc. prof, 55-56; TEX. TECH. COL, 56-57, PROF. & HEAD DEPT, 57- Mem, Am. Coun. Ed. for Jour, Nat. Accreditation Agency. Asn. Ed. Jour; Am. Soc. Jour. Sch. Admin.(v. pres, 61-62, pres, 62-63). Mass communications. Publ: Co-auth, Modern journalism, Pitman, 62. Address: Dept. of Journalism, Texas Technological College, Lubbock, Tex. 79409.

GARFIELD, FRANK R(ICHARDSON), b. Agawam, Mass, Oct. 21, 01; m. 26. ECONOMICS. A.B, Amherst Col, 23; Cornell, 23-26. Asst. prof. econ, North Carolina, 26-29; mem. staff, div. res. & statist, Fed. Reserve Bd, 29-66, adv, 56-66; RETIRED. Economet. Soc; Econ. Asn; Statist. Asn. Current economic developments and prospects; measurement of production; application of electronics to computing and charting. Publ: Markets and living standards; Transition forecasts in review, Am. Econ. Rev. Suppl; Long-time trends, Determining Bus. Outlook. Address: 5810 Warwick Place, Chevy Chase, Md. 20015.

GARFIELD, DR. PAUL J(EROME), b. Milwaukee, Wis, Mar. 10, 26; m. 59. ECONOMICS. B.S, Wisconsin, 48, M.S, 49, Ph.D.(econ), 55. From asst. prof. to assoc. prof. econ, Miami (Ohio), 50-52, 53-57; ECONOMIST & V.PRES, FOSTER ASSOCS, INC, 57- Res. assoc. & proj. officer, Ohio Legis. Serv. Cmn, 56; lectr, eve. col, Cincinnati, 56. U.S.A.A.F, 43-46. Econ. Asn; Statist. Asn. Public utilities and transportation; natural resources. Publ: Co-auth, Public utility economics, Prentice-Hall, 64; FPC regulation of sales of electric energy at wholesale, Va. Law Rev, 1/65; auth, Ohio River pollution control, Land Econ. Address: Foster Associates, Inc, 1101 17th St. N.W, Washington, D.C. 20036.

GARFIELD, PROF. SOL L(OUIS), b. Chicago, Ill, Jan. 8, 18; m. 45; c. 4. PSYCHOLOGY. B.S, Northwestern, 38, M.A, 39, Ph.D.(psychol), 42, Chief psychologist, Vet. Admin. Hosp, Mendota, Wis, 46-47; assoc. prof. psychol, Connecticut, 47-49; chief psychologist, Vet. Admin. Ment. Hyg. Clin, Milwaukee, Wis, 49-51; chief psychol. training unit, Vet. Admin Hosp, Downey, Ill, 51-57; assoc. prof. med. psychol, col. med, Nebraska, 57-59, prof, 59-63, chief psychol. div, Nebr. Psychiat. Inst, 57-63; res. prof. psychol, Washington (St. Louis), 63-64, prin. res. scientist, Mo. Inst. Psychiat, 63-64; PROF. PSYCHOL. & DIR. CLIN. PSYCHOL, TEACHERS COL, COLUMBIA, 64- Lectr, Northwestern, 52-57. Consult, Vet. Admin. Hosp, 58-59, Vet. Admin, 64-; div. selection, Peace Corps, 64- Mem. cmt. clin. drug eval, psychopharmacol. serv. center, Nat. Inst. Ment. Health, 60, ad hoc cmt, suicide prev. center, 67- U.S.A, 42-46, 2nd Lt. AAAS; fel. Psychol. Asn; Soc. Proj. Tech. Psychotherapy; evaluation of treatment; psychopathology; personality assessment. Publ: Introductory clinical psychology; Therapists' judgments concerning patients considered for psychotherapy; Predictive judgments of therapists and duration of stay in psychotherapy. Address: Dept. of Psychology, Teachers College, Columbia University, New York, N.Y. 10027.

GARFIELD, DR. VIOLA E(DMUNDSON), b. Des Moines, Iowa, Dec. 5, 99; m. 24. ETHNOLOGY. A.B, Washington (Seattle), 28, A.M, 31, fel, 32-33, 33-34; Ph.D.(anthrop), Columbia, 39. Assoc. ANTHROP, WASHINGTON (SEATTLE), 37-44, asst. prof, 45-54, ASSOC. PROF, 55- Asst, Barnard Col, Columbia, 33. Ed, Am. Ethnol. Soc, 60- Fel. Anthrop. Asn; Ethnol. Soc; Arctic Inst. N.Am. Indians of coast of British Columbia and Southeastern Alaska; wood carving art of northwest coast; social organization. Address: Dept. of Anthropology, University of Washington, Seattle, Wash. 98105.

GARFINKEL, DR. HAROLD, b. Newark, N.J, Oct. 29, 17; m. 45; c. 2. SOCIOLOGY. B.S, Newark, 39; M.A, North Carolina, 42; univ. fels, Harvard, 47-48, 49-50, Livingston fel, 48-49, Ph.D.(sociol), 52. Instr. sociol, Princeton, 50-52; res. asst. prof, personnel res. bd, Ohio State, 52-54; asst. prof. sociol, CALIFORNIA, LOS ANGELES, 54-57, U.S. Pub. Health Serv. sr. res. fel. SOCIOL, dept. psychiat, 57-66, PROF, 66- Mem. projs. adv. cmt, res. sect, State Dept. Ment. Hyg, Calif, 57-; res. cmt, coun. ment. health training & res, West. Interstate Cmn. Higher Ed, 59-; summer, participant, conf. res. behav. sci, Air Force Off. Sci. Res, New Mexico, 58. U.S.A.A.F, 42-46. AAAS; fel. Sociol. Asn; Soc. Study Social Probs; Int. Sociol. Asn. Institutional structure; communication; social organization under conditions of extremity. Publ: Research note on inter-and intra-racial homicides, Soc. Forces; Conditions of successful degradation ceremonies, Am. J. Sociol. Address: Dept. of Sociology, University of California, Los Angeles, Calif. 90024.

GARFINKEL, DEAN HERBERT, b. New York, N.Y, June 16, 20; m. 40; c. 2. POLITICAL SCIENCE. Hillman fel, Chicago, 48-49, Walgreen Found. fel, 49-50, A.M, 50, Ph.D, 56. Instr. polit. sci, Ill. Inst. Tech, 48-50; asst, Nat. Opinion Res. Center, 50; res. assoc. govt. res. bur, Mich. State Col, 51-53; asst. prof. govt, Dartmouth Col, 53-59; assoc. prof. POLIT. SCI, MICH. STATE, 59-64, PROF, 64-, DEAN JAMES MADISON COL, 66- Fel, Center Adv. Study Behav. Sci, 58-59; NATO prof, Inst. Soc. Studies, the Hague, 65-66. U.S. Merchant Marine, 43-45. Polit. Sci. Asn; Asn. Pub. Opinion Res. Political parties, groups and movements; political theory; public opinion; intergroup relations. Publ: When Negroes march: a study in organization politics; co-auth, The Democratic Republic, Rand McNally, 66; auth, Social science evidence and the school segregation cases, J. Polit. Address: James Madison College, Michigan State University, East Lansing, Mich. 48823.

GARGIULO, GRANVILLE R(OGERS), b. New York, N.Y, Aug. 25, 33; m. 53; c. 2. STATISTICS. B.B.A, City Col. New York, 59, M.B.A, 60. Analyst, Hudson Pulp & Paper Corp, 50-52; statistician, Standard Kollsman Instruments Inc, 54-57; opers. res. analyst, Charles Pfizer & Co, Inc, 57-59; MGR. OPERS. RES, ARTHUR ANDERSEN & CO, 59- U.S.A, 52-54. Inst. Mgt. Sci. Operations research application to industrial problems, particularly in areas of inventory control, resources allocation, research and development control, marketing strategies, and short and long term forecasting. Publ: Developing systematic procedures for directing research programs; On-going management systems with operations research, Systs. & Procedures, 5-6/66; Use of CPM in systems installations, Mgt. Serv, 5-6/67. Address: Arthur Andersen & Co, 80 Pine St, New York, N.Y. 10005.

GARIGUE, DEAN PHILIPPE, b. Manchester, Eng, Oct. 13, 17; nat. Can; m. 46; c. 3. ANTHROPOLOGY, SOCIOLOGY. B.Sc, London Sch. Econ, 51, Ph.D, 53. Asst. anthrop, Edinburgh, 51-52; London, 52-53; asst. prof, McGill, 53-57; PROF. ANTHROP. & DEAN, MONTREAL, 57- Leveshulme & Wennergren fels; Royal Soc. Can. fel, 64. V.pres, Vanier Inst, 62-68; pres, Que. Family Coun, 64. Brit. Army, 39-48, Capt. Anthrop. Asn; Am. Polit. Sci. Asn; Can. Polit. Sci. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Soc. Sociol, France. West African anthropology; French Canadian sociology; sociology of science. Publ: Family life of French Canadians; Analysis of family behavior & Bibliography of Quebec, 1955-1965, Univ. Montreal, 67. Address: University of Montreal, Montreal, Que, Can.

GARIS, PROF. ROY L(AWRENCE), b. Roanoke, Va, Oct. 4, 97. ECONOMICS. A.B, Virginia, 19, A.M, 20; Ph.D, Columbia, 27. Mem. faculty, Vanderbilt, 21-46; prof. ECON, SOUTHERN CALIFORNIA, 46-66, EMER. PROF, 66- Exec. asst. to state cmnr. pub. welfare, Tenn, 37-39; asst. to pres, N.C. & St. Louis R.R, 42-45. Dir. res, Mex. immigration, U.S. Cong, 29. Econ. Asn. Money and banking; labor relations. Publ: Immigration restrictions; Money, credit and banking. Address: 5464 Middlecrest Rd, Rolling Hills, Calif. 94572.

GARLAND, PROF. JOHN H(ENRY), b. Kirkland, Ill, Feb. 2, 04; m. 31; c. 2. GEOGRAPHY. Ph.B, Chicago, 28, M.S, 29, Ph.D.(geog), 40. Instr. geog, Ohio State, 29-30, 31-39; econ. geog, State Col. Wash, 30-31; asst. prof. GEOG, Western Reserve, 39-43; ILLINOIS, URBANA, 43-45, assoc. prof, 45-50, PROF, 50- Fel. AAAS; Asn. Am. Geog; fel. Geog. Soc; fel. Coun. Geog. Ed.(treas, 45-61). Regional geography of North America; political geography; conservation. Publ: North American midwest; Water supply for domestic and industrial use, 50, 2nd ed, 58, 3rd ed, 65; co-auth, Conservation of our natural resources, Wiley, 3rd ed, 65. Address: Dept. of Geography, University of Illinois, Urbana, Ill. 61801.

GARLAND, DR. WILLIAM, b. Vernon, Tex, May 3, 31; m. 55. CULTURAL ANTHROPOLOGY. B.A, Texas, 53; U.S. Pub. Health Serv. fel, Minnesota, 59-62, Ph.D.(anthrop), 62. Teacher, high sch, Tex, 55-56; jr. high sch, Mich, 56-57; asst. prof. sociol. & anthrop, WESTERN MICHIGAN, 62-65, ASSOC. PROF. ANTHROP, 65-, DIR. AFRICAN STUDIES PROG, 66- U.S.

Pub. Health Serv. res. fel. ethnog, Tanzania, 63-65 & res. grant, 63-66; lectr, U.S. Peace Corps training prog, 65. U.S.A, 53-55, Res, 55-61. Fel. Anthrop. Asn; Ethnol. Soc; fel. African Studies Asn; Int. African Inst. Political theory; African studies; theory of jurisprudence; philosophy of science. Publ: Leadership and the progress of an unprogressive people, the Wanjii of Tanzania, Proc. Conf. on African Local Insts. & Rural Transformation, 4/62; Wanji law and legal process, Syracuse Law Rev, 10/66. Address: Dept. of Anthropology, Western Michigan University, Kalamazoo, Mich. 49001.

GARLINGTON, DR. WARREN K(ING), b. U.S, Sept. 9, 23; m. 46; c. 2. PSYCHOLOGY. B.A, Montana State, 48; Ph.D.(psychol), Indiana, 53. Staff psychologist, Vet. Admin. Hosp, Sheridan, Wyo, 53-54, American Lake, Wash, 55-60; asst. prof. psychol, Montana, 54-55; chief psychologist, Ment. Health Res. Inst, Ft. Steilacoom, Wash, 61-63; ASSOC. PROF. PSYCHOL, Calif. State Col. Long Beach, 63-64; WASHINGTON STATE, 64-, DIR. CLIN. TRAINING, 67- Res. consult, State Hosp. North, Orofino, Idaho, 65-; East. State Hosp, Medical Lake, Wash, 67-; consult, Vet. Admin, 66- U.S.M.C, 42-45. AAAS; Psychol. Asn. Application of behavior theory to treatment of behavior disorders; training of clinical psychologists. Publ: Co-auth, Statistically speaking, C.C. Thomas, 64; auth, Admission ward as a therapeutic community & Is this pill necessary?, Northwest Med. Address: Dept. of Psychology, Washington State University, Pullman, Wash. 99163.

GARLOCK, DR. FRED L(ANDRETH), b. Maxwell, Iowa, Feb. 24, 97; m. 21; c. 1. AGRICULTURAL ECONOMICS. B.A, Iowa, 20; M.A, Columbia, 21, Ph.D.(econ), 41. Asst. prof. econ, Iowa State Col, 23-29; sr. agr. economist, bur. agr. econ, U.S. Dept. Agr, 30-42, asst. to dir. gen. crops div, commodity credit corp, 42-45, chief naval stores div, spec. commodities br, prod. & mkt. admin, 45-46, prin. agr. economist, bur. agr. econ, 47-53, prod. econ. res. br, agr. res. serv, 53-61, leader farm credit studies, farm econ. div, Econ. Res. Serv, 61-65; RETIRED. Consult, U.S. Dept. Agr, 66-67. U.S.N, 18-19. Country bank operations; operation and problems of agencies extending production credit to farmers and farmers cooperative associations. Publ: Country banking in Wisconsin during the depression & co-auth, Financial structure of Virginia agriculture, U.S. Dept. Agr. Bull; Farmers and their debts, U.S. Dept. Agr, 6/66. Address: 7817 Old Chester Rd, Bethesda, Md. 20034.

GARMAN, DR. GLEN D, b. Minerva, Ohio, May 12, 22; m. 40; c. 3. CLINICAL PSYCHOLOGY. Ph.D.(psychol), Michigan, 54. Clin. psychologist, Vet. Admin. Hosp, Ft. Douglas Sta, Utah, 54-60; chief clin. psychologist, Vet. Admin. Ment. Hyg. Clin, 60-65; CLIN. PSYCHOLOGIST, COMMUNITY MENT. HEALTH SERV, fulltime, 65-67, PART TIME, 67- Private practice, 61-; lectr, San Diego State Col, 66- U.S.A.A.F, 43-45. Psychol. Asn. Behavior assessment and modification; personality theory. Publ: Co-auth, An anxiety scale for the strong vocational interest inventory: development, cross-validation and subsequent tests of validity, J. Appl. Psychol. Address: 11435 Lorena Lane, El Cajon, Calif. 92020.

GARMEZY, DR. NORMAN, b. New York, N.Y, June 18, 18; m. 45; c. 3. PSYCHOLOGY. B.B.A, City Col. New York, 39; M.A, Columbia, 40, U.S. Pub. Health Serv. fel, 45-46; Ph.D, Iowa, 50. Res. psychologist, Worcester State Hosp, 47-50; asst. prof. PSYCHOL, Duke, 50-54, assoc. prof, 54-60, PROF, 60-61; MINNESOTA, MINNEAPOLIS, 61-, NAT. INST. MENT. HEALTH RES. CAREER AWARD, 62- Psychologist, training & standards br, Nat. Inst. Ment. Health, 56-, chmn, clin. projs. rev. cmt, 67-69. Consult, Vet. Admin, 51-61. Mem. bd. adv. ed, McGraw-Hill Book Co, 65- Stanley Dean award, basic behav. res. schizophrenia, 67. U.S.A, 43-45. AAAS; Psychonom. Soc; Psychol. Asn. Schizophrenia; learning theory applied to psychopathology; infantile experience and adult behavior; developmental psychopathology. Publ: Co-auth, Principles of general psychology, Ronald, 3d ed, 68; auth, Schizophrenia: research and theory, McGraw, (in prep); Experimental approach to the study of motivation in schizophrenia, Nebr. Symp. Motivation. Address: Dept. of Psychology, University of Minnesota, Minneapolis, Minn. 55455.

GARMIZE, DR. LEWIS M(ELVIN), b. New York, N.Y, Dec. 12, 31; m. 67. CLINICAL PSYCHOLOGY. B.A, Delaware, 59; M.S, Washington State, 61, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, IDAHO, 65- Consult, dept. psychol, Washington State, 67; County Ment. Health Clin, 65- U.S.A, 52-54. AAAS; Psychol. Asn. Process and outcome in psychotherapy; behavior modification and management; suggestibility; short-term family therapy. Publ: Co-auth, Role-play validation of a sociocultural theory of symbolism, J. Consult. Psychol, 4/64. Address: Dept. of Psychology, University of Idaho, Moscow, Idaho 83843.

GARN, CAPT. HARVEY A(RLEN), U.S.A, Econ, see 10th ed, Soc. & Behav. Vols.

GARN, DR. STANLEY MARION, Phys. Anthrop, see 11th ed, Phys. & Biol. Vols.

GARNER, PROF. ALTO L(UTHER), b. Dothan, Ala, Dec. 10, 16; m. 45; c. 1. POLITICAL SCIENCE, HISTORY. A.B, Alabama, 44; M.A, N.Y. Univ, 47; Ed.D, Kentucky, 54. Instr. hist, Georgetown Col, 47-48, asst. prof, 48-53; assoc. prof. ED, SAMFORD, 53-54, PROF, 54-, DEAN SCH. ED, 66-, chmn. div. ed, 64-66. South. regional ed. consult, State Farm. Ins. Co, 55-U.S.A, 41. Southern history, especially the life and times of William Lowndes Yancey; migration of notables into and from southern states. Publ: Co-auth, William Lowndes Yancey & secession convention, Birmingham-News, 61 & William Lowndes Yancey: statesman of secession, Ala. Rev, 61. Address: 3325 Misty Lane, Birmingham, Ala. 35243.

GARNER, DR. HARRY H(YMAN), b. Chicago, Ill, Jan. 19, 10; m. 40; c. 2. CLINICAL PSYCHIATRY. B.S, Illinois, 32, M.D, 34. Jr. physician, Chicago State Hosp, 36-39, clin. dir, 39-41; chief neuropsychiat. sect, U.S. Vet. Admin, 45-46; CHMN. DEPT. NEUROL. & PSYCHIAT, SCH. MED, CHICAGO, 46- Attend. neurologist, Cook County Hosp, Chicago, 46-; attend. psychiatrist, Mt. Sinai Hosp, 52; Cook County Psychopathic Hosp. Consult. psychiatrist, West Side Vet. Admin. Hosp. Med.C, U.S.A, 41-45. Fel. Psychiat. Asn; Acad. Neurol; Acad. Psychoanal. Treatment in psychiatry; psychiatric casualties in combat; spontaneous imitative movements; induced hyperinsulinism; confrontation technique in psychotherapy and research in psychotherapy. Publ: Psychosomatic management of patient with malignancy, 65. Address: 6 N. Michigan Ave, Chicago, Ill. 60602.

GARNER, PROF. JAMES R(OE), b. Detroit, Tex, Jan. 24, 03; m. 34; c. 2. POLITICAL SCIENCE. A.B, Bethany-Peniel Col, 25; B.S, Oklahoma, 26, A.M, 27; Ph.D, Iowa, 34. Prof, Bethany-Peniel Col, 27-29, 31-32; N.W. Nazarene Col, 34-37; regional econ. adv, U.S. Dept. Agr, Tex, 38-42; regional econ. analyst, War Labor Bd, 42-43; PROF, Olivet Nazarene Col, 43-48; POLIT. SCI, BETHANY-NAZARENE COL, 48- Polit. Sci. Asn. Address: Dept. of Political Science, Bethany-Nazarene College, Bethany, Okla. 73008.

GARNER, DR. LELA ANNE, b. Kenton, Tenn, Nov. 1, 39. POLITICAL SCIENCE. B.A, Southwestern at Memphis, 61; Wilson fel, Fletcher Sch. Law, 61-62, M.A, 62, Fletcher fel, 62-63, M.A.L.D, 63, Wilson grant, 64-65, Ph.D, 65; Fulbright grant, Philippines, 63-64. Assoc. prof. POLIT. SCI, Wilson Found. internship prog, Tennessee State, 65-66; ASST. PROF, SAN JOSE STATE COL, 66- Summers, mem. staff, San Jose State Col. Peace Corps Training Prog, Philippines, 66, Fulbright travel grant, Inst. Indian Civilization, U.S. Ed. Found, India, 67. Asn. Asian Studies; Polit. Sci. Asn. Philippine foreign policy. Publ: Heirs, press, and policy: Philippine claim to North Borneo, Silliman J, 64. Address: Dept. of Political Science, San Jose State College, San Jose, Calif. 95114.

GARNER, NORMAN R(OBERT), Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GARNER, DEAN PAUL, b. Yadkinville, N.C, Aug. 15, 10; m. 34; c. 3. ACCOUNTING, BUSINESS ADMINISTRATION. A.B, Duke, 32, A.M, 34; Columbia, 36; Ph.D, Texas, 40; hon. D.Ec, Pusan, Korea, 66. Instr, Duke, 34-35; Miss. State Col, 35-36, asst. prof. ACCT, 36-37; instr, Texas, 37-39; assoc. prof, ALABAMA, 39-43, PROF, 43-, DEAN SCH. COMMERCE & BUS. ADMIN, 54-, head dept. acct, 49-55. Comer Found. lectr, Georgia, 57; distinguished faculty lectr, Tex. West. Col. & Univ. South Dakota, 63; Price Waterhouse Found. lectr, Ga. State Col, 64; distinguished faculty lectr, E.Carolina Col, 65 & Va. Polytech, 66. Mem, Knight & Garner, Cert. Pub. Acct, 42-49; trustee, Alpha Kappa Psi Found, 60- State acct, U.S. Off. Price Admin, 42; spec. ed. assignments for U.S. Dept. State, U.S. Coun. Int. Progress Mgt. & Int. Orgn. Econ. Coop, Europe, 57, 60, 61 & 63-66, Turkey, 58, Far East, 60 & 66, S.Am, 62 & 65 & Africa, 64. Consult. to Comptroller Gen. U.S, 55-61; U.S. Off. Ed. & U.S. Dept. Defense, 65- Mem, Nat. Cmn. Standards of Ed. & Experience for Cert. Pub. Acct, 52-58; U.S. Coun. for Int. Progress Mgt, 61, nat. bd. dirs. & cmt. prog. & activities, 65-; adv. bd, U.S. Coun. Int. Exchange Commerce Students, 65-; mem, Coun. Ed. Adv. U.S. del, Int. Cong. Mgt, Paris, 57, Sydney & Melbourne, 60, Buenos Aires, 62, Copenhagen, Amersfoort & Paris, 64, Munich & Nurnburg, 65; Int. Cong. Acct, Amsterdam; Melbourne, Canberra & Wellington, 57, New York, 62; Pac-Asian Acct. Convention, 60; mem, Int. Univ. Contact for Mgt. Ed, Rotterdam, 63-; U.S. del, Euro-Econ. Cong, Tilburg & Cong. Admin. Sci, Paris, 65; World Cong. Univ. Ed. Int. Bus, Lausanne, 66. Award & prize, Alpha Kappa Psi Found, 62. Am. Acct. Asn.(v.pres, 48, pres, 51); Asn. Cert. Pub. Acct. Exam; Asn. Ed. Int. Bus; Financial Exec. Inst; Inst. Property & Liability Underwriters; Mgt. Asn; Soc. Expert Acct. France. Publ: Co-auth, Education for the professions, 55 & Readings in cost accounting, budgeting and control, 55, rev. ed, 60; co-ed, Readings in accounting theory, 66. Address: School of Commerce & Business Administration, University of Alabama, University, Ala. 35486.

GARNER, DR. W(ENDELL) R(ICHARD), b. Buffalo, N.Y, Jan. 21, 21; m. 44; c. 3. PSYCHOLOGY. A.B, Franklin & Marshall Col, 42; fel, Harvard, 42-43, A.M, 43, Ph.D.(psychol), 46. Spec. res. assoc. psychol, Harvard, 43-46; instr. & res. assoc, Hopkins, 46, asst. prof, 46-51, dir. psychol. lab, inst. coop. res, 48-54, assoc. prof. PSYCHOL, 51-55, chmn. dept, 54-64, prof, 55-67; JAMES ROWLAND ANGELL PROF, YALE, 67- Vis. scientist, Med. Res. Coun, Cambridge, Eng, 66-67. Consult, U.S. Air Force, 51-54; U.S. Army, 54-59; Vet. Admin, 55- Nat. Acad. Sci; fel. AAAS; fel. Psychol. Asn. (distinguished sci. contrib. award, 64); fel. Acoustical Soc; Psychomet. Soc; Soc. Exp. Psychol. Hearing; visual perception; communication; information theory; theory of measurement. Publ: Co-auth, Applied experimental psychology, 49 & auth, Uncertainty and structure as psychological concepts, 62, Wiley. Address: Dept. of Psychology, Yale University, New Haven, Conn. 06510.

GARNETT, PROF. RICHARD WINGFIELD, JR, Psychiat, see 11th ed, Phys. & Biol. Vols.

GARNICK, PROF. DANIEL H, Econ, see 10th ed, Soc. & Behav. Vols.

GARNSEY, PROF. MORRIS E(UGENE), b. Aurora, Mo, Oct. 12, 06; m. 29; c. 1. ECONOMICS. A.B, Drury Col, 28; A.M, Clark, 29; Louvain, 33-34; Ph.D, Harvard, 37. Instr. ECON, Brown, 31-32, 34-35; Harvard, 35-37; asst. prof. COLORADO, 37-47, PROF, 47-, chmn. dept, 60-63. Econ. adv, consumer div, Nat. Defense Adv. Coun, 40-41. Consult, Nat. Res. Planning Bd, 41-43; fed. & state agencies, 50- Distinguished alumni award, Drury Col. Econ. Asn; Regional Sci. Asn. Regional economics; America's new frontier, the mountain west; regional science and development of the west; welfare economics and water resources development. Publ: Co-auth, Economic development of arid regions, In: Aridity and man, AAAS, 63; co-ed, Social sciences and the quality of the physical environment, Univ. Colorado, 12/67. Address: 1505 Bluebell St, Boulder, Colo. 80302.

GAROIAN, PROF. LEON, b. Fresno, Calif, May 18, 25; m. 47; c. 2. AGRICULTURAL ECONOMICS. B.S, Calif. State Polytech. Col, 47; M.S, Wisconsin, 55, Ph.D.(agr. econ. & admin), 59. County agent hort, Oregon State, 47-56; agr. mkt. economist, Wisconsin, 56-58; agent, U.S. Dept. Agr, 58-59; assoc. prof. mkt, OREGON STATE, 59-61, PROF. AGR. ECON, 61-, ECONOMIST, EXTEN, 59- Staff economist, U.S. Dept. Agr, 63. Consult, Nat. Cmn. Food & Fiber, 66. Econ. Asn; Agr. Econ. Asn. Market organization and structure; managerial economics; operations analysis; long range planning by marketing firms; organizational structure of firms; optimizing firm

profits by varying product mix. Publ: Changes in the market structure of grocery retailing; co-auth, The board of directors in agricultural marketing businesses, 64 & Developing planning information for agricultural businesses, 65, Oregon State. Address: 240 Extension Hall, Oregon State University, Corvallis, Ore. 97331.

GARREN, PROF. ROBERT EARL, b. Brevard, N.C, Aug. 18, 20; m. 49; c. 2. SOCIOLOGY. A.B, California, 50; M.A, North Carolina, 53, Ph.D.(sociol), 55. Asst. prof. sociol. & econ, Auburn, 55-59; assoc. prof. mgt, GA. STATE COL, 59-62, PROF. SOCIOL. & HEAD DEPT, 62- Vis. assoc. prof, Texas Western, summer, 58. U.S.A.A.F, 42-45, Sgt. AAAS; Acad. Mgt; Sociol. Asn; Am. Inst. Urban & Regional Affairs (pres, 67-). Behavioral science in industry; human ecology; demography; urban and regional analysis; employment problems. Publ: Urbanism: a new way of life for the south, Miss. Quart, 57; Human ecology and the urban activity: a point of view, In: The ideal city, Ga. State Col, 64. Address: Dept. of Sociology, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

GARRETSON, DR. WYNONA SMUTZ, Sociol, Social Psychol, see HARTLEY, DR. WYNONA SMUTZ.

GARRETT, PROF. EDGAR R(AY), Speech Pathol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GARRETT, PROF. HENRY E(DWARD), b. Clover, Va, Jan. 27, 94; m. 24. PSYCHOLOGY. A.B, Richmond, 15, Sc.D, 54; M.A, Columbia, 21, Ph.D.(psychol), 23. Teacher, high sch, Va, 15-17, 19-20; asst. PSYCHOL, COLUMBIA, 20-23, instr, 23-26, asst. prof, 26-35, assoc. prof, 35-42, exec. head dept, 40-56, prof, 42-56, EMER. PROF, 56- Vis. prof, Virginia, 56-64. Expert consult, U.S. Secy. War, 40-44. Ed, Am. Psychol. Series. Mem. div. psychol. & anthrop, Nat. Res. Coun, 37-40, 41-43, v.chmn, 40. U.S.A, 17-18. AAAS; fel. Psychol. Asn.(pres, 46); Psychomet. Soc.(pres, 43). Mental organization; learning; personality analysis. Publ: Elementary statistics, 62, The art of good teaching, 65 & Statistics in psycho. and educa, 66, McKay. Address: 1872 Winston Rd, Charlottesville, Va. 22903.

GARRETT, DR. JAMES FRANCIS, b. New York, N.Y, Mar. 31, 16; m. 41; c. 3. PSYCHOLOGY. A.B, Fordham, 37, scholar, 37-38, M.A, 39; Hayden scholar, N.Y. Univ, 38-40, Ph.D.(clin. psychol), 41. Chief spec. rehab. proc. div, Vet. Admin, Wash, D.C, 45-48; asst. prof. clin. psychol, N.Y. Univ, 48-51; ASST. DIR. RES. & TRAINING, U.S. OFF. VOC. REHAB, 51- Mem. cmt. aging, Nat. Soc. Welfare Assembly, 51-; chmn. adult adv. bd, United Cerebral Palsy Asn, 57-60. Psychol. Asn; Personnel & Guid. Asn. Psychological aspects of physical disability; vocational adjustment of the handicapped; cerebral palsy; aging and disability. Publ: Rehabilitation, In: Trends in clinical psychology; co-auth, Sheltered workshops; ed, Psychological aspects of physical disability. Address: 204 Noland St, Falls Church, Va. 22046.

GARRETT, DR. LEONARD J, b. Philadelphia, Pa, Nov. 22, 26; m. 59; c. 2. ECONOMICS, COMPUTER SCIENCE. B.S, U.S. Mil. Acad, 50; M.B.A, Pennsylvania, 57, Ph.D.(econ), 60. Asst. prof. mgt, Pennsylvania, 60-64; ASSOC. PROF. MGT. & DIR. UNIV. COMPUT. ACTIVITY, TEMPLE, 65- Sig.C, U.S.A, 50-54, Capt. Information systems; simulation; computer gaming and management. Publ: Co-auth, Management systems, Irwin, 65; Production management analysis, 66 & Production management analysis-a case book, 67, Harcourt. Address: Temple University, School of Business Administration, Philadelphia, Pa. 19122.

GARRETT, PROF. ROMEO B(ENJAMIN), b. Natchez, Miss, Feb. 2, 10. SOCIOLOGY. A.B, Dillard, 32; A.M, Bradley, 47; LL.D, Natchez Col, 49; N.Y. Univ, 50, Ph.D.(sociol), 63. Supvr. adult ed, State Dept. Ed, La, 34-42; asst. prof. sociol, BRADLEY, 42-60, ASSOC. PROF. SOCIOL. & ANTHROP, 60- U.S.A, 42-45, Sgt. Sociol. Asn; Anthrop. Asn; Soc. Appl. Anthrop; Geront. Soc. Negroes in Peoria. Publ: African survivals in American culture, J. Negro Hist, 10/66. Address: Dept. of Sociology, Bradley University, Peoria, Ill. 61606.

GARRETT, PROF. WILBUR R(AY), b. Connersville, Ind, Apr. 10, 08. BUSINESS ADMINISTRATION. B.S, Southern California, 32, M.B.A, 33, A.M, 34, Ph.D, 41. From instr. to PROF. ACCT. & FINANCE, LOYOLA (CALIF), 35-, dean col. bus. admin, 35-67. Econ. Asn; Am. Acct. Asn. Statutory provisions relating to selected phases of the net-worth section of the corporate balance sheet. Address: Dept. of Accounting, College of Business Administration, Loyola University, Los Angeles, Calif. 90045.

GARRIGUS, DR. WOODFORD (McDOWELL), Geog, see 11th ed. Phys. & Biol. Vols. & Suppl. II.

GARRISON, PROF. KARL C(LAUDIUS), b. Gaston Co, N.C, Aug. 14, 00; m. 24; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Peabody Col, 22, Ph.D, 27; M.S, North Carolina, 26. Instr. ed. psychol, Peabody Col, 27-28; from assoc. prof. to prof. psychol, N.C. State Col, 28-40; assoc. prof. ed, Cent. Conn. State Col, 41-46; prof. psychol, Ga. State Col. for Women, 46-47; dean instr, Md. State Teachers Col.(Frostburg), 47-48; prof. ED. PSYCHOL, GEORGIA, 48-65, EMER. PROF, 65- Distinguished prof, Old Dom. Col, 65-68; summer res. & writing grant, Duke, 67. Fel. Psychol. Asn. Developmental psychology, especially adolescent psychology; psychology of exceptional children; attitudes; self-concepts of children and adolescents. Publ: Co-auth, Psychology of exceptional children, Ronald, 65; Child psychology, Scribner, 66; auth, Psychology of adolescence, Prentice-Hall, 66. Address: 1300 Reece Rd, Apt. 420, Charlotte, N.C. 28209.

GARRISON, DR. MORTIMER, JR, b. Bridgeton, N.J, Nov. 5, 20; m. 45; c. 4. PSYCHOLOGY. A.B, Wash. Col, 42; M.A, Columbia, 47, Ph.D, 48. Intern PSYCHOL, N.Y. State Psychiat. Inst, 46-48, sr. scientist, 48-49; asst. prof, Pennsylvania, 49-54; chief psychologist, Vineland Training Sch, N.J, 54-57; res. consult, U.S. Children's Bur, 57-59; res. dir, Woods Schs, 59-67; PROF. ED. PSYCHOL, TEMPLE, 67- Lectr, Columbia, 47. Consult, Vet. Admin. Ment. Hyg. Clin, Phila, 49-54; President's Cmt. Ment. Retardation, 67- U.S.N.R, 42-46, Lt. AAAS; Psychol. Asn; Asn. Ment. Deficiency; Soc. Res. Child Develop; Acad. Res. Ment. Deficiency. Mental retardation; psychopathology. Address: 551 Lenape Circle, Langhorne, Pa. 19047.

GARRISON, PROF. WILLIAM A, b. Churchill, Idaho, May 22, 15; m. 41; c. 3. PSYCHOLOGY. A.B, Colo. State Col, 37, M.A, 39; Ph.D.(psychol), Denver, 56. Training officer, Vet. Admin. Regional Off, Colo, 46-49; counsr, counseling center, Denver, 49-56; asst. prof. ed, EAST. MONT. COL, 56-59, assoc. prof, 59-61, PROF. PSYCHOL, 61-, HEAD DEPT, 67-, dir. counseling, 57-67. U.S.N.R, 43-46, Lt. Psychol. Asn; Personnel & Guid. Asn. Self-concept and academic achievement; values and academic achievement. Publ: Counseling, an adjunct to medical services, Rocky Mt. Med. J, 1/56; co-auth, Interpersonal values related to college achievement & Analysis of the F scale through use of the survey of interpersonal values, Proc. Mont. Acad. Sci, 62. Address: Dept. of Psychology, Eastern Montana College, Billings, Mont. 59101.

GARRISON, PROF. WILLIAM L(OUIS), b. Nashville, Tenn, Apr. 20, 24; m. 64; c. 6. GEOGRAPHY. B.S, George Peabody Col, 46, M.A, 47; fel. & Ph.D. (geog), Northwestern, 50. From asst. prof. to prof. geog, Washington (Seattle), 50-60; prof, Northwestern, 60-63, civil eng, 63-67, dir. transportation center, 65-67; PROF. GEOG, DIR. CENTER URBAN STUDIES & UNIV. COORDINATOR URBAN STUDIES, ILLINOIS, CHICAGO, 67- Lectr, Pennsylvania, 52-53. Dir, Regional Sci. Res. Inst, 65-; trustee, Nat. Moving & Storage Tech. Found, 66- Mem. adv. cmt. hwy. cost allocation study, U.S. Dept. Commerce, 60-64, independent study bd, 66-67; panel econ, Nat. Sci. Found, 64-66; adv. cmt. res, U.S. Bur. Pub. Roads, 64-; cmt. areas soc. & econ. statist, Soc. Sci. Res. Coun, 65-67; chmn, cmt. small-area data, U.S. Bur. Census, 65-; chmn/pres, cmn. theoret. geog, Int. Geog. Union, 65-; mem. cmt. urban econ, Resources Future, 65-; cmt. data sci. & tech, Int. Coun. Sci. Unions, 66-; long range planning cmt, hwy. res. bd, Nat. Acad. Sci, 66-, adv. cmt. non-rail transit vehicles, 66-, cmt. new subject matter, 66-; cmn. soc. sci, Nat. Sci. Bd, 67. U.S.A.A.F, 43-46, Capt. AAAS; Asn. Am. Geog; Regional Sci. Asn.(v.pres, 60-61, pres, 62); Statist. Asn; Soc. Gen. Syst. Res. Transportation, urban and regional, and information systems and policy topics; urban education; regional development policies; mathematical geography. Publ: Studies of highway development and geographic change; Spatial structure of the economy; co-auth, Quantitative geography, vols. I & II, Northwestern, 67. Address: Center for Urban Studies, Box 4348, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

GARRY, PROF. RALPH, b. San Francisco, Calif, Aug. 10, 16. EDUCATIONAL PSYCHOLOGY. Fel, Stanford, 49-50, M.A. & Ph.D.(ed. psychol), 50. Sr. voc. counsr, State Dept. Corrections, Calif, 46-48; dir, Voc. Guid. Center, 48-50; PROF. ED. PSYCHOL, SCH. ED, BOSTON, 50- Proj. dir, Found. Character Ed, 54-, res. dir, modern lang. proj, 59- Consult, U.S. Senate Subcmt. Juvenile Delinquency, 61-63. Peabody award, 63. Psychol. Asn; Ed. Res. Asn. Learning; measurement; group processes; educational television. Publ: Television for children; Guidance techniques for elementary school teachers; co-auth, Nature and conditions of learning. Address: Dept. of Educational Psychology, School of Education, Boston University, 765 Commonwealth Ave, Boston, Mass. 02115.

GARRY, DR. ROBERT F(RANCOIS) J(OSEPH), b. St. Barthélemy, France, Apr. 23, 06; m. 29; c. 1. HUMAN GEOGRAPHY. Dr, Paris, 29 & 30; Brevet, Ecole des Langues Orientales, Paris, 30 & Ecole de la France d'Outremer, 31; licence, Montreal, 52. Adminstr. civil serv. admin, Cambodian Govt, 31-46; PROF. GEOG. & FAR EAST. CIVILIZATIONS, MONTREAL & LAVAL UNIVS, 49- Can. Coun. grants, Can. del, Moscow, 60, Japan fel, 60, New Delhi Can. del, 64; Nat. Res. Coun. grants, Conf. South Asian Geog, Kuala Lumpur, 62, Pac. Sci. Cong, Honolulu, 63, Int. Geog. Cong, London, 64. Mem, Can. Consult. Cmt, UNESCO, 60. French Marines, 31-32, 40-42, Lt. Can. Asn. Geog.(v.pres, concellor, 60); Asn. Am. Geog; Asn. Asian Studies. Geography of the Far East and Far Eastern civilizations. Publ: Japan in De Wereld Waarin Wij Wonen en Werken, In: Tome 6 Zuid-En-Oostazie, Brussels, Uitgevers Maatschappij W. de Haan, N.V. Standaard Boekhandel, 63; La Loi de 1948 sur l'eugénisme national et l'évolution de la population japonaise de 1949 à 1958, Rev. Can. Geog, 63; History of scientific geographical exploration of the Pacific Basin, In: Geographical exploration—French, Am. Geog. Soc, 63. Address: 4491 Cote de Neiges Rd, Montreal, Que, Can.

GARSIDE, DR. JAYNE GILLETTE, b. Salt Lake City, Utah, Aug. 12, 36; m. 56; c. 2. PSYCHOLOGY, COUNSELING. B.A, Brigham Young, 58, M.A, 60, Ph.D.(ed. psychol), 66. Teacher, high sch, Utah, 58-60; jr. high sch, Nev, 60-61, sch. psychologist, Clark County Sch. Dist, Nev, 61-62; Provo Sch. Dist, Utah, 62-63; asst. prof. PSYCHOL, CHURCH COL. HAWAII, 63-67, ASSOC. PROF, 67-, COUNSR, 63- Personnel & Guid. Asn. Personality characteristics of various cultural groups, similarities and differences; admustments to college living, particularly residence halls; therapy in the college setting. Address: Dept. of Psychology, Church College of Hawaii, Laie, Oahu, Hawaii 96762.

GARSKOF, DR. BERTRAM EUGENE, b. New York, N.Y, July 12, 33; m. 66; c. 3. PSYCHOLOGY. A.B, Roosevelt, 60; Ph.D.(psychol), Michigan, 63. ASST. PROF. PSYCHOL, Rutgers, 63-66; MICH. STATE, 66- U.S. Pub. Health Serv. res. grant, 65-68. U.S.A, 57-59. Psychol. Asn. Human learning and memory. Publ: Co-auth, The measurement of verbal relatedness: an idiographic approach, Psychol. Rev, 63; auth, Inter- and intra-hierarchy associative relatedness in verbal transfer, J. Verbal Learning & Verbal Behav, 64; co-auth, First list retention as a function of method of recall, J. Exp. Psychol, 65. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

GART, DR. JOHN J(ACOB), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

GARTNER, DR. JOSEPH, b. Vienna, Austria, June 2, 29; nat; m. 55; c. 3. ECONOMICS, PSYCHOLOGY. B.S, Connecticut, 54; M.S, New Hampshire, 55; Ph.D.(econ, agr. econ, psychol), Iowa State, 61. Asst. agr. econ, New Hampshire, 54-55; mkt, Rhode Island, 55-56; res. assoc. consumer mkt, Iowa State, 57-61; asst. prof. consumption econ. & family finance, Kansas State, 61-63; res. dir. center consumer affairs & vis. assoc. prof. econ, Wisconsin, Milwaukee, 63-66; ASSOC. PROF. BUS. ADMIN, BOSTON COL, 66- Vis. lectr, Rutgers, 64; summers, lectr, Wisconsin, Milwaukee, 65 & vis. lectr, Maryland, 66. Consult, Kans. Dept. Soc. Welfare, 62-63; U.S. Dept. Labor & Boston Col-Manpower Develop. Training Act, 67. AAAS;

Econ. Asn; Agr. Econ. Asn. Marketing, especially consumer marketing; development of Negro and minority group small business enterprises; economic feasibility of the adoption of space industry innovations by the private sector of the economy. Publ: Competition among funeral directors, Center Consumer Affairs, Wisconsin, Milwaukee, 66, co-auth, Prices of selected foods, Milwaukee & suburbs, Wisconsin, Milwaukee, 66; Consumer decision making. Address: 103 Colbourne Crescent, Brookline, Mass. 02146.

GARVER, DEAN EARL S, b. Youngstown, Ohio, Feb. 5, 11. ECONOMICS. A.B, Manchester Col, 33; Ph.D, Yale, 43. Part-time instr, Trinity Col. (Conn), 41-42; assoc. prof. econ, MANCHESTER COL, 46-50, DEAN, 50- Lectr, Northeastern, 46. Econ. Asn. Real estate financing; trade unionism; industrial relations. Publ: Co-auth, Introduction to modern economics & Puerto Rico, unsolved problem; The right to strike and the general welfare, Council, 67. Address: Manchester College, North Manchester, Ind. 46962.

GARVERICK, DR. CHARLES M, b. Caledonia, Ohio, Nov. 30, 29; m. 53; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Ohio State, 51, M.A, 52; Ph.D.(ed. psychol), California, Berkeley, 61. Employee rels. supvr, Gen. Elec. Co, 55-56; methods analyst, Int. Bus. Mach. Corp, 56-58; asst. prof. ED. PSYCHOL, California, Davis, 61-64; Illinois, Urbana, 64-66; ASSOC. PROF, STATE UNIV. NEW YORK BUFFALO, 66- Consult, Ed. Workshop for S.Vietnamese Educators, Urbana, Ill, 65; Allyn & Bacon, Inc, 65-; indust. arts curriculum proj, Ohio State Univ, 66; Exp. Prog. English Teachers, Fredonia, N.Y, 67. U.S.A.F, 52-54, 1st Lt. Psychol. Asn; Ed. Res. Asn. Learning theory; instructional theory; psychological aspects of professional education. Publ: Co-auth, Instructor ratings and expected grades, Calif. J. Ed. Res, 62; auth, Retention of school learning as influenced by selected affective ton variables, 64 & co-auth, Effects of differential feedback from examinations on retention and transfer, 65, J. Ed. Psychol. Address: Dept. of Education, Room FA-7, State University of New York, Buffalo, N.Y. 14214.

GARVEY, PROF. DALE M, b. LeRoy, Kans, June 5, 14; m. 37; c. 3. POLITICAL SCIENCE. B.S, Kansas State, 36; dipl, U.S. Army Command & Gen. Staff Col, 50; dipl, Nat. War Col, 57; American Univ, 57-58; M.S, Kans. State Teachers Col, 60; univ. fel, Kansas, 61-63, U.S. Off. Ed. grant, 65-66. Instr. POLIT. SCI, KANS. STATE TEACHERS COL, 60-62, asst. prof, 62-65, ASSOC. PROF, 65- U.S.A, 36-59, Col. Polit. Sci. Asn. Political socialization of children and ages of development of political awareness; using simulation to provide students laboratory experience and method of measuring their reactions. Publ: Co-auth, Study of effectiveness of teaching different methods of teaching international relations, Kans. State Teachers Col, 66; auth, Simulation, role-playing, and sociodrama in the social studies, Emporia State Res. Studies, Kans. State Teachers Col, 67. Address: Division of Social Sciences, Kansas State Teachers College, Emporia, Kans. 66801.

GARVEY, PROF. NEIL F(ORD), b. Illiopolis, Ill, Jan. 27, 99; m. 27; c. 2. POLITICAL SCIENCE. Ph.D.(polit. sci), Illinois, 43. Supvr. visual aids serv, div. univ. exten, ILLINOIS, URBANA, 42-45, dir. correspondence courses, 45-67, prof. POLIT. SCI, UNIV, 44-67, EMER. PROF, 67- Vis. prof, Chattanooga, 67-68. Polit. Sci. Asn. American local and state government. Publ: Co-auth, Blueprint for our democracy; Government and administration of Illinois; auth, Selected cases and materials on municipal gov't (rev), Stipes, 10/67. Address: 202 W. Delaware Ave, Urbana, Ill. 61801.

GARVEY, PROF. W(ILLIAM) D(AVID), b. Richmond, Va, Jan. 17, 23. SCIENTIFIC COMMUNICATION. B.A, Richmond, 47; M.A, Virginia, 49, Ph.D, 51. Asst. exp. psychol, Virginia, 50-51; head eng. psychol. res. sect, U.S. Naval Res. Lab, 51-59; dir, Am. Psychol. Asn. Info. Exchange Proj, 59-61, proj. sci. commun. in psychol, Am. Psychol. Asn, 61-66; PROF. PSYCHOL. & DIR. CENTER RES. SCI. COMMUN, HOPKINS, 66- U.S.N.R, 43-46, Lt.(jg). Fel. Psychol. Asn. Study of scientific communication, especially communication of research findings in the growth of scientific knowledge. Publ: Co-auth, Scientific communication in psychology, 12/65 & Scientific communication as a social system, 9/67, Science; Innovations in scientific communication, Am. Psychologist, 11/66. Address: 6031 Hollins Ave, Baltimore, Md. 21210.

GARVIN, PROF. EVERETT A, b. Worcester, Mass, July 30, 22; m. 55; c. 4. PSYCHOLOGY. A.B, Antioch Col, 50; M.S, Tulane, 53; Ph.D.(psychol), Washington (St. Louis), 62. Clin. psychologist, child guid. clin, Inst. Juvenile Res, 55-58; exp. & physiol. psychologist, U.S. Air Force Rome Air Develop. Center, N.Y, 58-62; mem. tech. staff, Mitre Corp, 62-64; dir. psychol. res, N.Cent. Ment. Health Center, Mass, 64-67; PROF. PSYCHOL, MASS. STATE COL, FITCHBURG, 67- Res. dir, Elem. & Sec. Ed. Act grant, 66- Consult, Mass. Rehab. Cmn, 62-; Neighborhood Youth Corps, Mass, 67. U.S.A.F, 40-45, T/Sgt. Psychol. Asn. Perception; learning; clinical methods in behavioral science; memory and higher thought processes; creativity. Publ: Co-auth, An analysis of job duties of fleet personnel and advanced electronics electricians' mates, Tech. Note Off. Naval Res, Washington Univ, 55; auth, Individual differences in angular estimation as a function of method of stimulus presentation and mode of response, Mitre Tech. Series Report 11, 63; co-auth, A pseudoconditioning effect on reaction time, J. Exp. Psychol, 72: 744-750. Address: Massachusetts State College at Fitchburg, Fitchburg, Mass. 01420.

GARVIN, DR. PAUL L(UCIAN), Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

GARVIN, DR. WILFRED J(AMES), b. N.S, Mar. 11, 15; nat; m. 42; c. 4. ECONOMICS. B.A, St. Francis Xavier Col, 34; Knights Columbus fel, Catholic Univ, 34-36, 37-38, M.A, 35, Ph.D, 41. Head sch. bus. admin, Mt. St. Marys Col, 40-42; econ. analyst, Vet. Admin, 46-47; econ. adv, Undersecy. Army, U.S. DEPT. ARMY, 47-51, staff economist, cmt. present danger, 51, spec. asst. progs. & budget, Off. Asst. Chief Staff, 51-54, chief budget div, Off. Dept. Chief Staff Logistics, 54-56, asst. dir. financial opers, 57-61, mem. staff, Nat. War Col, 56-57, asst. chief, Off. Mgt. Anal, 61-62, dept. dir. plans progs. & systs, Defense Supply Agency, 62-64, spec. asst. to dir, 64-65, comptroller, 65-67, ASST. ADMINSTR. PLANS, RES. & ANAL, SMALL BUS. ADMIN, 67- U.S.A, 43-45. Econ. Asn; Economet. Soc. International relations; management. Publ: Study of limitation of trade of the free world with the Soviet Bloc; Study of the need, objectives and administration of foreign aid. Address: 3409 Radnor Place, Falls Church, Va. 22042.

GARVY, DR. GEORGE, b. Riga, Russia, May 30, 13; nat; m. 41; c. 1. ECONOMICS. Dipl, Paris, 36, Lic. es lettres, 37; Ph.D, Columbia, 51. Asst, Nat. Bur. Econ. Res; mem. res. staff, New Sch. Soc. Res, 42-43; economist, FED. RESERVE BANK NEW YORK, 43-45, chief domestic res. div, 45-53, sr. economist, 53-58, adv, 58-62, ECON. ADV, 62- Lectr, grad. sch, N.Y. Univ, 47; Columbia, 53, vis. prof, 59-60, adj. prof, 68; lectr, Centro de Estudios Monetarios Latinoamericanos, Mex, 54 & 66; Econ. Develop. Inst, 57- Mem, Int. Bank Reconstruct. & Develop. Missions, Nicaragua, Panama & Colombia, 51-55; rev. cmt. for balance of payments statist, U.S. Bur. Budget, 63-65; selection cmt, Woytinsky Lectureship award, 64- Econ. Asn; fel. Statist. Asn; Finance Asn.(pres, 65). Monetary economics; income and savings; economics of growth. Publ: Deposit velocity and its significance, 11/59 & Money, banking, and credit in Eastern Europe, 9/66, Fed. Res. Bank New York; The role of the state bank in Soviet planning, In: Soviet planning: essays in honor of Naum Jasny, Basil Blackwell, Oxford, 64. Address: Federal Reserve Bank of New York, 33 Liberty St, New York, N.Y. 10045.

GARWOOD, DR. DOROTHY SEMENOW, Clin. Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GARWOOD, DEAN JOHN D(ELVERT), b. Carroll, Nebr, Mar. 20, 15; m. 43; c. 2. ECONOMICS. A.B, Wayne State Col, 36; Ph.M, Wisconsin, 40; Ph.D. (econ), Colorado, 51. Prin, pub. high sch, Nebr, 36-38; instr. econ, Morningside Col, 41-42; prof, FT. HAYS KANS. STATE COL, 47-62, DEAN FACULTY ADMIN, 62- Finance C, U.S.A, 42-46, M/Sgt. Econ. Asn. Industrialization; taxation and public finance. Publ: An analysis of postwar migration to Utah and Colorado, Econ. Geog, 1/53; The Kansas citizens examine their property tax, Nat. Tax J, 9/56; A professor demands parity plus, Nation, 9/57. Address: Fort Hays Kansas State College, Hays, Kans. 67601.

GARZA, DR. JOSEPH MARTIN, b. New Orleans, La, Oct. 24, 34; m. 63; c. 1. SOCIOLOGY. B.A, Southeast. La. Col, 59; M.S, Fla. State, 61; Ph.D.(sociol), Kentucky, 66. Instr. SOCIOL, Memphis State, 61-63; asst. prof, Col. William & Mary, 66-67; ASSOC. PROF, MISS. STATE, 67- Mem, Miss. Regiena gional Res. Proj, 67- U.S.C.G, 54-56. Sociol. Asn. Intergroup relations; family; political sociology. Publ: Co-auth, The treatment of religion in introductory sociology texts, J. Sci. Study Relig. Address: Dept. of Sociology & Anthropology, Mississippi State University, State College, Miss. 39762.

GASKILL, DR. HAROLD V(INCENT), b. Fayette Co, Ohio, Feb. 3, 05; m. 26; c. 3. PSYCHOLOGY. B.A, Ohio State, 26, A.M, 27, Ph.D.(psychol), 30. Asst. prof. psychol, Iowa State Col, 30-31, assoc. prof, 31-36, prof, 36-56, asst. dean sci, 36-38, dean, 38-56, dir. indust. sci. res. inst, 38-56, war res, 40-46; V.PRES. PLANNING, Collins Radio Co, 56-62; FINANCIAL GEN. CORP, 62- Rep, Psychol. Corp, N.Y, 30-; chief scientist, U.S. Dept. Army, 50-52. Consult, 27- Fel. AAAS; fel. Psychol. Asn; sr. mem. Inst. Elec. & Electronics Eng. Physiological concomitants emotional reaction; statistical method; market analysis. Address: Financial General Corp, 1701 Pennsylvania Ave. N.W, Washington, D.C. 20006.

GASOREK, DR. KATHRYN A(LBERT), b. Coatesville, Pa, May 22, 19; m. 47; c. 2. PSYCHOLOGY. A.B, Rutgers, 41; A.M, Columbia, 42, Ph.D, 51. Res. asst, State Psychiat. Inst, N.Y, 45-48; asst. chief clin. psychologist, Halloran Vet. Admin. Hosp, 48-51; sr. clin. psychologist, WILLOWBROOK STATE SCH, 52-58, SR. RES. PSYCHOLOGIST, 58-; ASSOC. PROF. PSYCHOL, NEWARK STATE COL, 65- Instr, Rutgers, 53-54. Consult, Florence Christian Home, N.J; Christian Orphan Home; Fabco Metal Prod. AAAS; Psychol. Asn; Soc. Proj. Tech; Acad. Ment. Retardation. Mental deficiency; influence of drugs on intellectual functioning, J. Neuropsychiat; co-auth, Gonadal immaturity as an etiological factor in some forms of mental deficiency, and its therapy, Diseases Nervous Syst; contrib, Selective partial oblation of the frontal cortex. Address: 29 W. Henry St, Linden, N.J. 07036.

GASPARITSCH, PROF. EDWARD, b. Grafenfeld, Austria, Sept. 12, 92; nat; m; c. 1. ECONOMICS. A.B, N.Y. Univ, 15, Butler fel, 15-16, A.M, 16, Ph.D, 18, M.B.A, 23. Asst. bursar & instr, N.Y. UNIV, 16-25, asst. prof. acct, 25-29, assoc. prof, 29-46, prof, 46-48, ECON, 48-58, EMER. PROF, 58-, EMER. DIR. ALUMNI FEDN, 66- Bus. consult, 21-48; econ. consult, 58- Am. Acct. Asn; Acad. Polit. & Soc. Sci. Financial reports. Address: 173 N. Hickory St, Massapequa, N.Y. 11761.

GASPER, DONALD, b. Du Bois, Pa, Oct. 3, 27; m. 52; c. 3. INDUSTRIAL ECONOMICS. B.S, Pa. State, 50, M.S, 51; Pennsylvania, 45-46; Pittsburgh, 54-67. Bus. analyst, CONSOLIDATION COAL CO, 51-61; mgr. bus. surv. & dir. econ. studies, 61-66, mgr. mkt. info. serv, 66-67, DIR. ECON. STUDIES, 67- Consult, Fairmont Coal Bur, 52-54; Nat. Coal Policy Conf, 61-; Mich. Energy Surv. Cmt, 61-65. U.S.N.A.F, 45-46. Statist. Asn; Asn. Am. Geog; Asn. Iron & Steel Eng; Inst. Min, Metall. & Petrol. Eng. Mineral economics; economic research in fuel, energy and power industries; coal studies. Publ: A decade of price and cost trends in the fuels and electric utility industries; Recent developments affecting the American coke industry: costs, prices and markets; Coal, In: Energy and the Michigan economy: a forecast, Bur. Bus. Res, Grad. Sch. Bus. Admin, Univ. Michigan, 67. Address: Consolidation Coal Co, 2000 Koppers Bldg, Pittsburgh, Pa. 15219.

GASPER, DR. LOUIS, b. Lorain, Ohio, Feb. 10, 11; m. 43. SOCIOLOGY. B.A. & B.S, Bowling Green State, 47; M.A, Findlay Col, 49, B.D, 54; Ph.D.(Am. culture), Western Reserve, 58; Adv.M.Ed, Southern California, 62. Assoc. prof. sociol, Florence State Col, 57-58; instr, pub. schs, Calif, 58-63; ASST. PROF. SOCIOL, LOS ANGELES PIERCE COL, 63-, CHMN. DEPT. PHILOS. & SOCIOL, 67- Assoc. prof, Los Angeles Pac. Col, 61-63. Marriage counsr, Am. Inst. Family Rels, Hollywood, Calif, 64- Fel. Sociol. Asn. Social problems covering crime and delinquency; ethnic and race relations; culture and personality; social psychology. Publ: Fundamentalist movement, Mouton, 63; Fundamentals of sociology, McCutchan, 66; Vital social problems, McCutchan, 68. Address: 2908 Wynwood Lane, Los Angeles, Calif. 90023.

GASSAWAY, PROF. ALEXANDER R(AMSEY), b. Cairo, Ill, Jan. 22, 24. GEOGRAPHY. B.A, Virginia, 50; M.A, George Washington, 57; Clark, 57-58; Nat. Acad. Sci. grant, 58-60. Geogr, Army Map Serv, U.S. Corps Engrs, 50-52, mil. intel. res. specialist, engr. strategic intel. div, 52-56; ASST. PROF. econ. & polit. geog, George Washington, 61-66; GEOG, PORTLAND STATE COL, 66- U.S.A.A.F, 43-45, Sgt. Asn. Am. Geog. Geography of underdeveloped areas; food supply and sufficiency; Arctic areas; Western Europe; Middle East; Africa. Publ: A field method: estimating the total size of the reindeer herd in northernmost Norway, Newsletter, Asn. Pac. Coast. Geogr, spring, 67; Dynamics of agricultural food marketing in Finnmark province, northernmost Norway, Ad Novas Series, Univ. Oslo, 68. Address: Dept. of Geography, Portland State College, Portland, Ore. 97201.

GASSER, PROF. ROBERT LOUIS, b. Denver, Colo, Oct. 20, 16; m. 39; c. 3. SOCIOLOGY, POLITICAL SCIENCE. B.A, Denver, 38; M.A, George Washington, 52; Ph.D, American Univ, 55. Clerk, Library Cong, 39-41; musician, Nat. Symphony Orchestra, D.C, 41-43, 46-50; asst. prof. sociol. & res, sch. nursing, Colorado, 55-57, assoc. prof. sociol. & res. & dir. bur. nursing res, 57-60; assoc. prof. sociol. & polit. sci, TEMPLE BUELL COL, 60-64, PROF. SOCIOL. & DIR. FOR. STUDY PROGS, 64-, dir. instnl. res, 61-64, res. dir, Geneva Study Prog, Switz, 66-68. Vis. prof, Mich. State, 58. Consult, tri-county dept. pub. health, Aurora, Colo, 64-66; alcoholism div, Colo. State Pub. Health Dept, 65-66. U.S.A, 43-46. Fel. Sociol. Asn; Acad. Polit. & Soc. Sci; Int. Sociol. Asn. Criminology. Publ: Students educational activities study; Confidence world as a criminal behavior system, J. Colo-Wyo. Acad. Sci; The confidence game, Fed. Probtn, 12/63. Address: Behavioral Sciences Division, Temple Buell College, Denver, Colo. 80220.

GASSNER, PROF. JULIUS S(TEPHEN), b. New York, N.Y, Sept. 22, 15; m. 43; c. 6. POLITICS, HISTORY. B.A, St. Peter's Col.(N.J), 37; M.A, Fordham, 40; Minnesota, 51-52; La. State, 52-53. Instr. polit. sci, Col. St. Thomas, 47-52; asst. prof. hist, Southwest. La. Inst, 52-57; POLIT. & HIST, ALBUQUERQUE, 57-59, ASSOC.PROF, 59- Mil. Intel, U.S.A, 42-46, Res, 46-; Maj. Polit. Sci. Asn. American and comparative governments; political theory; international relations. Publ: Miscegenation-two decisions, Interracial Rev, 6/61; Theatre of Augustodunum, Classical Bull, 2/65; The Roman theatre at Vaison-la-Romaine, Classical J, 4/66. Address: Dept. of Political Science, University of Albuquerque, Albuquerque, N.Mex. 87105.

GASSON, JOHN A(UGUSTINE), S.J, b. Pittsfield, Mass, Nov. 26, 04. PSYCHOLOGY. A.B, Boston Col, 27, M.A, 28; Ph.D.(psychol), Gregorian Univ, Rome, 31; S.T.L, Weston Col, 34. Instr. hist, SPRING HILL COL, 28, PROF. PHILOS. & PSYCHOL, 37-, DIR. PROG. PSYCHOL, 64-, chmn. dept. soc. scis, 37-52. Psychol. Asn. Theory and systems in psychology; personality theory; philosophical problems in psychology. Publ: The human person. Address: Dept. of Psychology, Spring Hill College, Mobile, Ala. 36608.

GASSTER, DR. MICHAEL, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GASTIL, DR. RAYMOND D(UNCAN), b. San Diego, Calif, Apr. 13, 31; m. 55; c. 2. SOCIAL SCIENCE, ANTHROPOLOGY. A.B, Harvard, 53, Fulbright award, 53-54; Harvard Nat. scholar, 54-56, 57-58, univ. fel, 55-56, A.M, 56, Ford Found. grant, 57-58, Ph.D.(soc. sci), 58. Res. assoc. int. affairs, center int. affairs, Harvard, 58-59; asst. prof. anthrop. & soc. sci, Oregon, 59-62; RES. ANALYST INT. AFFAIRS & NAT. DEFENSE, HUDSON INST, CROTON, 62- Anthrop. Asn. Persian national culture; linguistic determinism; diffusion of democratic ideology, especially to Iran; international relations and national defense. Publ: Co-auth, Can we win in Vietnam, Prager, 68; Middle class impediments to Iranian modernization, Pub. Opinion Quart; Language and modernization; Determinants of human behavior, Am. Anthropologist. Address: 27 Fountain Rd, Briarcliff Manor, N.Y. 10510.

GASTON, DR. CHARLES O(WEN), b. Nacogdoches, Tex, Apr. 20, 30; m. 50; c. 2. CLINICAL PSYCHOLOGY. B.S, Sam Houston State Teachers Col, 52; M.A, Baylor, 53; Ph.D, Houston, 58. Trainee PSYCHOL, State Psychiat. Inst, Nebr, 54-55; Norfolk State Hosp, Nebr, 55; res, MED. BR, TEXAS, 55-56, instr, 56-61, ASST. PROF, 61- Asst. prof, Houston, 60- Psychol. Asn; Soc. Proj. Tech. Relationship of certain psychological test patterns to specific behavioral manifestations and socio-cultural variables. Publ: Affective ration and 8-9-10 percent on the Rorschach Test for normals and psychiatric groups, J. Consult. Psychol; Conversion table for relating the MMPI group and individual form items & Rorschach card rejection in normal and psychiatric groups, J. Clin. Psychol. Address: Dept. of Psychology, University of Texas Medical Branch, Galveston, Tex. 77550.

GASTON, J(OSEPH) FRANK, b. New York, N.Y, Nov. 24, 18; m. 47; c. 2. ECONOMICS. B.S, N.Y. Univ, 42; M.S, Columbia, 50. Asst. economist, Off. Price Admin, U.S. Fed. Govt, 43-44; economist, NAT. INDUST. CONF. BD, 44-55, asst. dir. div. bus. econ, 55-57, dir. div. consumer econ, 57-61, div. info. serv, 59-65, ASSOC. DIR. DIV. ECON. RES, 65- Mem, bus. res. adv. coun, bur. labor statist, U.S. Dept. Labor, 59- Statist. Asn. Statistical measures in analysis of business problems; international business activity; analysis of industrial growth. Publ: Growth patterns in industry: a reexamination; America and the world: comparisons-projections; Consumer price index for petroleum employees in Venezuela. Address: Division of Economic Research, National Industrial Conference Board, 845 Third Ave, New York, N.Y. 10022.

GASTON, T(HOMAS) L(EE), JR, b. Myra, Tex, July 29, 02; m. 24. AGRICULTURAL ECONOMICS. B.S, Agr. & Mech. Col, Tex, 24, M.S, 29. Asst. agr. economist, exp. sta, Agr. & Mech. Col, Tex, 24-28; Idaho, 29-31, assoc. agr. economist, 31; exten. economist farm mgt, Miss. State Col, 31-34; prin. agr. economist, south. div, agr. adjust. admin, U.S. Dept. Agr, 34-35, prin. soil conservationist, soil conserv. serv, 35-43, asst. chief conserv. prog. br, war food admin, 43-44, asst. to chief, soil conserv. serv, 44-53, adminstr's field rep, Great Plains, 54-59, Southeast, 60-65; RETIRED. Fel. AAAS; Soil Conserv. Soc. Farm management; marketing farm products; public administration. Address: 4700 Connecticut Ave. N.W, Washington, D.C. 20008.

GATES, PROF. ARTHUR I(RVING), b. Red Wing, Minn, Sept. 22, 90; m. 20; c. 2. PSYCHOLOGY. B.L, California, 14, M.A, 15; Ph.D:(psychol), Columbia, 17. Instr. ED. PSYCHOL, TEACHERS COL, COLUMBIA, 17-18, asst. prof, 18-20, assoc. prof, 20-22, prof, 24-56, EMER. PROF, 56-, SUPVR. RES, INST. LANG. ARTS, 56-, head dept. ed. psychol, 33-55, dir. Found. Ed, 49-56. Fel. Psychol. Asn; Ed. Res. Asn.(v.pres, 41, pres, 42); Nat. Acad. Ed. Learning; test and measurements; reading. Address: Institute of Language Arts, Teachers College, Columbia University, New York, N.Y. 10027.

GATES, DR. GARY R(ICKEY), b. Evansville, Ind, July 5, 34; m. 55; c. 2. GEOGRAPHY, GEOLOGY. B.S, Indiana, 58, A.M, 60, Ph.D.(econ. geol), 65. Geologist, Ind. Geol. Surv, 57-62; consult. geologist, 62-63; econ. geologist, Spindletop Res, Inc, Ky, 63-66, mgr. natural resources prog, 65-66; asst. prof. GEOG, BRITISH COLUMBIA, 66-68, ASSOC. PROF, 68- Consult, La. Comprehensive Water & Related Land Resources Plan, 66- Geol. Soc; Mineral. Soc; Soc. Gen. Syst. Res; Soc. Econ. Paleont. & Mineral. Integration of physical and socioeconomic factors for use in development programming, particularly in the management of water resources; systems of reforms. Publ: Co-auth, A Kentucky riverlands development program, Spindletop Res, Inc, 65. Address: Dept. of Geography, University of British Columbia, Vancouver 8, B.C, Can.

GATES, PROF. JAMES E(DWARD), b. Louisville, Ky, Nov. 21, 08. ECONOMICS, B.S, Kentucky, 29; Chicago, 30-31, Soc. Sci. Res. Coun. fel, 30-31; Ph.D, Virginia, 35. Price investr, Nat. Recovery Admin, 33-35; rate investr, Fed. Power Cmn, 35-37; prof. econ, Clemson Agr. Col, 37-40; asst. prof. mkt. sch. bus, Indiana, 40-41; mat. officer, War Prod. Bd, 41-45; economist, Container Corp. Am, 45-47; bur. pub. admin, Virginia, 47; dean col. bus. admin, GEORGIA, 48-62, PROF. BEHAV. SCI. DEPT. MGT, 62- Econ. Asn. Packing and packaging; pulp and paper economics; business administration curriculums; creativity in action; research management; philosophy of science. Address: Dept. of Management, University of Georgia, Athens, Ga. 30601.

GATES, DR. ROBBINS L(ADEW), b. Martinsville, Va, May 24, 22; m. 50; c. 2. POLITICAL SCIENCE. B.A, Washington & Lee, 48; A.M, Columbia, 55, Ph.D.(pub. law, govt), 62. Instr. govt, Trinity Col.(Conn), 56-59; acad. dean, Fairfax Hall, Waynesboro, Va, 59-65; ASST. PROF. POLIT. SCI, MARY BALDWIN COL, 65- U.S.A.A.F, 43-46, Sgt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. The political behavior of electorate, parties, and interest groups primarily at the state and local levels. Publ: The making of massive resistance, Univ. North Carolina, 64. Address: 1011 Hawthorne Lane, Waynesboro, Va. 22980.

GATES, THEODORE R, Econ, see 10th ed, Soc. & Behav. Vols.

GATES, PROF. WILLIAM BRYAN, JR, b. Indianapolis, Ind, Oct. 18, 17; m. 54; c. 3. ECONOMICS. A.B, Williams Col, 39; M.A. & Ph.D.(econ), Chicago, 47. Economist, tax res. div, U.S. Treas, 41-42; Export-Import Bank of Wash, 50-55; teacher Williams Col, 55-58, 59-62; Brookings nat. res. prof, Repub. Haiti, 58-59; dir. field staff econ. planning, Develop. Projs. Consult. Serv, Indonesia, 62-63; BROUGH PROF. ECON. & CHMN. DEPT, WILLIAMS COL, 63- Proj. dir, Harvard Develop. Adv. Serv, Malaysia, 67-68. U.S.N, 42-46, Lt. Econ. Asn; Econ. Hist. Asn. Economic development and history. Publ: Co-auth, An economic history of the Michigan copper mining industry, Harvard, 51. Address: Dept. of Economics, Williams College, Williamstown, Mass. 01267.

GATHINGS, DR. JAMES A(NDERSON), b. Peachland, N.C, Sept. 10, 00. INTERNATIONAL LAW. A.B, Furman, 25; A.M, Duke, 30; fel, Chicago, 30-31; Ph.D, N.Y. Univ, 37. Prin. high sch, S.C, 25-27, supt, pub. schs, 27-29; asst. prof. POLIT. SCI, Texas Christian, 31-32; BUCKNELL, 32-38, assoc. prof, 38-46, PROF, 46- Polit. Sci. Asn; Am. Soc. Int. Law. International relations; American treatment of alien enemy property; political science. Publ: International law and American treatment of alien enemy property, Am. Coun. Pub. Affairs, 40; Politics and the American businessman, 60 & A survey of governments, 65, Edwards. Address: 90 University Ave, Lewisburg, Pa. 17837.

GATI, DR. CHARLES, b. Budapest, Hungary, Sept. 14, 34; U.S. citizen; m. 60; c. 3. POLITICAL SCIENCE. A.B. & A.M, Indiana, 61, Ford Found. fel, 61-62, univ. fel, 63, Ph.D.(govt), 65. Lectr. govt, Indiana, Kokomo, 62-63; instr. POLIT. SCI, Union Col.(N.Y), 63-65, asst. prof, 65-68; VIS. ASSOC. PROF, KANSAS, 68- Consult, off. planning higher ed, State Dept. Ed, N.Y, 66- Polit. Sci. Asn; Asn. Adv. Slavic Studies. International politics, especially Soviet foreign policy; American foreign policy; comparative foreign policy. Publ: Methodology and Soviet foreign policy, Can. Slavic Studies, winter 67; Another grand debate? The limitationist critique of American foreign policy, World Polit, 10/68. Address: Dept. of Political Science, University of Kansas, Lawrence, Kans. 66044.

GATKE, PROF. R(OBERT) M(OULTON), b. Ludington, Mich, Jan. 31, 96. POLITICAL SCIENCE. A.B, Willamette, 19, A.M, 21, hon. L.H.D, 67; fel, American Univ, 23-25, Ph.D, 25. Asst. prof. hist, WILLAMETTE, 21-25, assoc. prof. hist. & polit. sci, 25-35, prof, 35-61, EMER. PROF. POLIT. SCI, 61- Polit. Sci. Asn; Am. Soc. Int. Law. Pacific Northwest history; plans of American colonial union; educational and missionary history of Pacific Northwest. Address: Dept. of Political Science, Willamette University, Salem, Ore. 97301.

GATLIN, DR. DOUGLAS STUART, b. May 2, 28; U.S. citizen. POLITICAL SCIENCE. B.A, Florida, 55, M.A, 57; Falk fel, North Carolina, 58, Southern fel, 59-60, Ph.D.(polit. sci), 64. Instr. POLIT. SCI, Wake Forest Col, 60-64; asst. prof, FLORIDA ATLANTIC, 64-67, ASSOC. PROF, 67- Vis. asst. prof, North Carolina, summer, 67. Polit. Sci. Asn; Asn. Pub. Opinion Res. Political behavior theory; methodology of social sciences; public opinion in politics, theory and research. Publ: Co-auth, Political parties and political behavior, 67 & auth, Toward a functionalist theory of political parties, In: New approaches to the study of political parties, 68, Allyn & Bacon. Address: Dept. of Political Science, Florida Atlantic University, Boca Raton, Fla. 33432.

GATLING, DR. FRANK P(RENTICE), Psychol, see 11th ed, Phys. & Biol. Vols.

GATNER, PROF. ELLIOTT S(HERMAN) M(OZIAN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GATTY, DR. RONALD, b. Long Beach, Calif, July 9, 29; m. 53. MARKETING, STATISTICS. M.Sc, Cornell, 52, Ph.D.(econ), 57. Exec. asst, South Seas Marine Prod, Ltd, 46-49; asst. prof. mkt. res, Rutgers, 57-61, lectr. statist, univ. col, 58-60, assoc. mem, statist. centre, 60-61; ASSOC. PROF. MKT. & STATIST, Villanova, 61-63; BARUCH GRAD. CENTER, CITY UNIV. NEW YORK, 63- Sr. res. assoc, Spec. Studies, Inc, 58-59; pres, Admark Res. Assocs, 60-; dir. res, N.Y. State Joint Legis. Cmt. Higher Ed, 65-66. Consult, Thiokol Chem. Co, 59; R.S. Crum Co, 60-61; Continental Baking Co, 61-; Ted Bates Advert, 61; Jep et Carré Advert, France, 61-63; New York City Mayor's Temporary Cmn. City Finances, 64-65; N.Y. State Bd. Regents, 67-68; D'Arcy Advert. Co, 67- U.S.A, 52-55. Statist. Asn; Mkt. Asn; Agr. Econ. Asn; Asn. Pub. Opinion Res. Applied economics and statistics, especially marketing research, policy and administration; research methodology. Publ: Factorical designs for store sales experiments; Semantic differential applied to image research; Application of factor analysis to marketing research. Address: Baruch Graduate Center, City University of New York, 257 Park Ave. S, New York, N.Y. 10010.

GATZKE, PROF. H(ANS) W(ILHELM), Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GAUDET, PROF. FREDERICK J(OSEPH), b. Yarmouth, N.S, Mar. 5, 02; nat; m; c. 1. PSYCHOLOGY. Ed.M, Harvard, 28; Ph.D.(psychol), Columbia, 38; hon. M.Eng, Stevens Inst. Tech. Asst. prof, Dana Col, 28-31; asst. PSYCHOL, Stevens Inst. Tech, 31; prof, Newark, 31-34, prof. & head dept, 34-41; assoc. prof, STEVENS INST. TECH, 41-45, PROF. & DIR. LAB. PSYCHOL. STUDIES, 45- Clin. psychologist, Universal Church, 37-39. Consult, ment. hyg. div, Vet. Admin, 47- Psychol. Asn; Mgt. Asn; Soc. Proj. Tech; Indust. Rels. Res. Asn. Legal psychology; psychometrics; psychotherapy. Publ: Labor turnover; calculation and cost & Absenteeism: cost and control, Am. Mgt. Asn; Labor turnover: an annotated bibliography, Indust. Rels. Res. Asn. Address: Lab. of Psychological Studies, Stevens Institute of Technology, Hoboken, N.J. 07030.

GAULT, PROF. THOMAS G(OWER), b. Cornersville, Tenn, Sept. 2, 19; m. 42; c. 1. GEOGRAPHY. B.S, Middle Tenn. State Col, 46; M.A, Peabody Col, 49, scholar, 55-56, Ed.D, 59. Teacher, pub. sch, Tenn, 46-47, teacher & prin, 47-50, prin. & supt, 50-52; assoc. prof. geog. & soc. sci, Edinboro State Col, 52-55; asst. prof. GEOG, Peabody Col, 55-56; assoc. prof, INDIANA UNIV. PA, 56-59, PROF. & CHMN. DEPT, 59- U.S.A.A.F, 41-45, 1st Lt. Asn. Am. Geog; Coun. Geog. Ed.(secy, 64-66); Nat. Ed. Asn. Geographic education; land use studies, especially conservation of nation's resources. Publ: Co-auth, Teacher's question and answer book on geography, Croft Ed. Serv, 62; Rural land use in Franklin County, Tennessee, Southeast. Geogr, 6/63; Geography's contribution to the teaching of world cultures, News & Views Pa. Coun. Soc. Studies, 4/67. Address: Dept. of Geography, Indiana University of Pennsylvania, Indiana, Pa. 15701.

GAUMNITZ, DR. E(DWIN) W(ILLIAM), b. St. Cloud, Minn, Feb. 18, 99; m. 22; c. 4. AGRICULTURAL ECONOMICS. B.S, Minnesota, 21, M.A, 22, Ph.D. (agr. econ), 25. From instr. to asst. prof. agr. econ, Minnesota, 22-26; asst. prof. mkt, Iowa State Col, 26-28; agr. economist, State Dept. Agr, Calif, 28-30; sr. agr. economist, bur. agr. econ, U.S. Dept. Agr, D.C, 31-33, prin. agr. economist, dairy div, agr. adjust. admin, 33-35, chief dairy sect, 35-39, dir, div. mkt. & mkt. agreements, 39-40, asst. adminstr, surplus mkt. admin, 40-41, assoc. adminstr, 41-42; spec. asst. to exec. dir, Bd. Econ. Warfare, 42-43; EXEC. SECY, NAT. CHEESE INST, INC, 43- Agr. Econ. Asn. Marketing and prices of dairy products; poultry consumption and prices. Address: National Cheese Institute, Inc, 110 N. Frontline, Chicago, Ill. 60606.

GAUMNITZ, DEAN ERWIN A, b. St. Cloud, Minn, Feb. 24, 07. COMMERCE. B.B.A, Minnesota, 29, A.M, 34, Ph.D, 35. Price exec. & expert labor statist, U.S. Fed. Govt, 35-38; asst. prof. COMMERCE, WISCONSIN, MADISON, 38-41, assoc. prof, 41-45; PROF, 45-, DEAN GRAD. SCH. BUS. ADMIN, 55-, asst. dean, 47-53, assoc. dean, 54. Price exec, region VIII, Off. Price Stabilization. Am. Econ. Asn; Statist. Asn; fel. Royal Econ. Soc. Statistics; undistributed profits tax; social security and life insurance. Publ: Co-auth, Social security and life insurance & Mathematics of life insurance, Futures Trading Seminar, Vol. III. Address: Graduate School of Business Administration, University of Wisconsin, Madison, Wis. 53711.

GAUMNITZ, PROF. R(ICHARD) K(ENNETH), b. Minneapolis, Minn, Apr. 16, 15; m. 39; c. 1. ECONOMICS. B.Chem, Minnesota, 37, M.A, 38, Ph.D.(econ), 42. Asst. to dir, food distribution admin, U.S. Dept. Agr, 42-43; from asst. to dep. dir. gen. supply to dep. dir, China Off, UNRRA, 44-47; PROF. ECON. & BUS. ADMIN, MINNESOTA, 48- Asst. field dir, Cmt. Econ. Develop, 50-51. Consult, bus. ed. progs, 51-56; Orgn. European Econ. Develop, France, 60-61. Econ. Asn; Statist. Asn; Acad. Mgt. Management; business administration. Publ: Co-auth, Mathematics for decision makers, Harvard Bus. Rev. Address: School of Business Administration, University of Minnesota, Minneapolis, Minn. 55455.

GAUNTLETT, PROF. JOHN H(ENRY), b. Des Moines, Iowa, June 30, 21. POLITICAL SCIENCE. A.B, Missouri, 42; M.A, Columbia, 48. Asst, Am. Embassy, Damascus, Syria, 50-52; instr. Montgomery Jr. Col, 54; North Carolina, 55-58; vis. asst. prof, South Carolina, 58; mem. legis. reference serv, Library Cong, 60; res. assoc, George C. Marshall Res. Center, 61-63; dir. admin, Contract Mgt. Inst, D.C, 63-64; registered rep, Investors Planning Corp, 64-68; ASST. PROF. SOC. SCI, JOHN TYLER COMMUNITY COL, 67- U.S.A.F, 42-45, Res, 45-, Maj. Near East, especially the Arab states; income and social factors of Negro voting behavior in South Carolina. Publ: Some observations on the influence of the income factor on urban Negro voting in South Carolina, J. Negro Ed; The influence of the S factor on the voting behavior of South Carolina urban Negroes, West. Polit. Quart, 12/64. Address: P.O. Box 83, Chester, Va. 23831.

GAURON, DR. EUGENE F, b. Detroit, Mich, Oct. 18, 35; m. 58. CLINICAL PSYCHOLOGY. A.B, Creighton, 57; M.A, Illinois, 59; Ph.D.(psychol), Catholic Univ, 62. Psychol. trainee, Vet. Admin, D.C. & Md, 59-62; ASSOC. PROF. PSYCHOL, IOWA, 62- Psychol. Asn; Group Psychother. Asn. Clinical decision making processes; effects of early experience on later development; behavioral effects of chronic drug administrations. Publ: Infantile shock traumatization and subsequent adaptability to stress, 104:167-178 & co-auth, Infantile shock traumatization and the mitigating effects of tranquilizing drugs, 111: 263-270, J. Genetic Psychol; Diagnostic decision making in psychiatry, Arch. Gen. Psychiat, 14: 225-237. Address: Dept. of Psychiatry, University of Iowa, 500 Newton Rd, Iowa City, Iowa 52240.

GAUS, PROF. JOHN M(ERRIMAN), b. Stittville, N.Y, Sept. 3, 94; m. 17. POLITICAL SCIENCE. A.B, Amherst Col, 15; A.M, Harvard, 17, Ph.D, 24; hon. D.H.L, Columbia, 54, Amherst Col, 60, St. Lawrence, 64. Instr. polit. sci, Amherst Col, 20-22, assoc. prof, 22-23; asst. prof, Minnesota, 23-24, assoc. prof, 24-25, prof, 26-27; Wisconsin, 27-47; GOVT, HARVARD, 47-61, EMER. PROF, 61- Vis. prof, Chicago, 33-34, Walgreen vis. prof, 40; Arizona, 63-64. Consult, Nat. Resources Cmt, 35-; Tenn. Valley Authority, 40. Asst. exec. secy, War Labor Policy Bd, 17-19. Am. Acad. Arts & Sci; Polit. Sci. Asn.(pres, 45); Soc. Pub. Admin.(pres, 51); assoc. mem. Inst. Pub. Admin, Can. Public administration; civic education; American studies. Publ: Co-auth, Public administration and the United States Department of Agriculture; Teaching political science, Duke, 65; Public administration and democracy, Syracuse Univ, 65. Address: Prospect, N.Y. 13435.

GAVAN, DR. JAMES A(NDERSON), Anthrop, Anat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

GAVER, DR. DONALD P(AUL), Math, see 11th ed, Phys. & Biol. Vols.

GAVETT, DR. THOMAS W(ILLIAM), b. Milwaukee, Wis, Jan. 16, 32; m. 54; c. 3. ECONOMICS, INDUSTRIAL RELATIONS. B.B.A, Wisconsin, 53, M.S, 54, Ph.D.(econ), 57. Lectr. econ, Marquette, 56-57; asst. prof, West Virginia, 57-61, assoc. prof, 61-66, dir. inst. indust. rels, 58-66; res. economist, BUR. LABOR STATIST, U.S. DEPT. LABOR, 66-67, ASST. CMNR. WAGES & INDUST. RELS, 67- Ford Found. Seminar fel, 60, 62. Chmn, State Human Rights Cmn, W.Va, 61-66. Econ. Asn; Indust. Rel. Res. Asn; Statist. Asn. Wages; employment; labor relations; prices. Publ: Development of labor movement in Milwaukee, Univ. Wisconsin, 64; Development of high technology industry, 66 & Migration and changes in the quality of labor, 67, W.Va. Univ. Address: 513 Springloch Rd, Silver Spring, Md. 20904.

GAVIN, SISTER EILEEN, C.S.J, b. Chicago, Ill, May 30, 31. PSYCHOLOGY. B.A, St. Catherine Col, 53; M.A, Minnesota, 60; Nat. Defense Ed. Act fel, 60-62, Loyola (Ill), Ph.D.(psychol), 64. Teaching asst. PSYCHOL, ST. CATHERINE COL, 56-60, ASST. PROF, 63-, CHMN. DEPT, 67- Psychol. Asn. Experimental, physiological and theoretical psychology. Publ: Comparative psychology, 67 & Fear, 67, New Cath. Encyclop; co-auth, Is feminine psychology justified?, Cath. World, 8/67. Address: Dept. of Psychology, College of St. Catherine, 2004 Randolph Ave, St. Paul, Minn. 55116.

GAVIN, DR. JEANINE, b. Chicago, Ill, Feb. 20, 31; wid. SOCIAL PSYCHOLOGY. B.A, Bradley, 54, M.A, 57; Fla. Pub. Health fel, 59-60; Ph.D.(soc. psychol), Fla. State, 64; Kent Law Sch, 65-66. Intern, Chicago Ment. Health Center, 63-64, psychologist I, 64, psychologist II, 64-65; psychologist, Charles Read Zone Center, Chicago, 65-66; DIR. COMMUNITY MENT. HEALTH PROGS, LUTHERAN GEN. HOSP, 66- Dir. group serv, Grant Hosp, Chicago, 64- Res. & consult. health progs, Inst. Human Ecol, 66-; consult, Lutheran South Hosp, Matteson, 66-; St. Mary of Nazareth Hosp, Chicago, 67-; Charles Read Zone Center, 67- Psychol. Asn; Sociol. Asn; Nat. Coun. Family Rels; Indust. Rels. Res. Asn; Pop. Asn; Group Psychother. Asn; Pub. Health Asn. Clinical-experimental research; community mental health. Publ: Co-auth, Attitudes of public health nurses toward mental illness, Monogr, Inst. Soc. Res, 61; Maze learning in the guppy, Psychol. Reports, 60; auth, Group treatment with lower class psychotic patients, Psychiat. Spectator, 65. Address: 8825 E. Robin Dr, Des Plaines, Ill. 60016.

GAVIN, MORTIMER H(UGH), S.J, b. Boston, Mass, May 9, 07. ECONOMICS. A.B, Boston Col, 36, M.A, 37; S.T.L, Weston Col, 42; Ph.D.(econ), St. Louis, 50. Instr. Eng, Col. Holy Cross, 37-38, asst. dir. inst. indust. rels, 43-45; instr. econ. & indust. rels, St. Louis, 45-50, res. assoc, inst. soc. order, 50-52, 57-60; asst. prof. econ, Boston Col, 53-57, dir. labor-mgt. center, 52-57; assoc. dir. inst. indust. rels, Col. Holy Cross, 60-62; DIR. INST. INDUST. RELS, ARCHDIOCESE OF BOSTON, 62- Vis. lectr, Loyola (Calif), 47; Gonzaga, 50. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Industrial relations; labor education and business ethics. Publ: Co-auth, Democratic living & Social orientations. Address: Institute of Industrial Relations, Archdiocese of Boston, 761 Harrison Ave, Boston, Mass. 02118.

GAVRAS, ARISTOTLE, b. Visalia, Calif, June 5, 26; m. 57. INFORMATION SCIENCE. B.S, Southern California, 52, M.B.A, 54. Mgr. systs, Atlantic Richfield Co, 57-68; DIR. INFO. RES, TRANSAM. CORP, 68- Lectr, Los Angeles City Col, 65-68. U.S.A, 44-47, T/Sgt. System analysis for information requirements; conceptual information models for a manufacturing concern. Publ: Co-auth, Terminal transmission and data, Am. Petrol. Inst, 3/68. Address: 1326 Comstock Ave, Los Angeles, Calif. 90024.

GAVRILOVIC, PROF. STOYAN, Int. Affairs, see 10th ed, Soc. & Behav. Vols.

GAVURIN, DR. EDWARD I(SSER), b. Bronx, N.Y, July 16, 26; m. 51; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Brooklyn Col, 47; M.A, N.Y. Univ, 48, Ph.D.(psychol), 57. Rehab. counsr, state ed. dept, State Univ. N.Y, 55-57; res. psychologist, Off. Naval Res, U.S. Naval Training Device Center, 57-59; eng. scientist, missile electronics & controls div, Radio Corp. Am, 59-60, surface communications div, 60-61; human factors scientist, missile & space vehicle dept, Gen. Elec. Co, Phila, 61-63; prin. scientist & head human factors sect, aerospace div, Gen. Precision, Inc, 63-64; asst. prof. PSYCHOL, HUNTER COL, 64-67, ASSOC. PROF, 68- Lectr, Long Island, 57; Brooklyn Col, 58-59; instr, Fairleigh Dickinson, 63-64. AAAS; Psychol. Asn; N.Y. Acad. Sci. Psychology of learning; problem solving; engineering psychology; application of digital computers to psychological research;

automated teaching and programmed learning; effect of highly controlled environmental settings upon human performance. Publ: An evaluation of various tachistoscopic and WEFT techniques in aircraft recognition, Off. Naval Res. Natradevcen Report, 65; Effect of distributed practice upon initial solution to a jigsaw-like puzzle, Perceptual & Motor Skills, 65; Anagram solving under conditions of letter order randomization, J. Psychol, 67. Address: 122 Manning Ave, River Edge, N.J. 07661.

GAW, DEAN ESTHER ALLEN, Psychol, see 10th ed, Soc. & Behav. Vols.

GAWAIN, DR. GARY C(LARENCE) V(ICTOR), b. Mt. Carmel, Pa, Aug. 14, 24; m. 46; c. 2. PSYCHOLOGY. A.B, Bucknell, 47, M.A, 48; Wright Patterson Aeromed. Lab. fel, Pa. State, 48-49, Ph.D, 50. Instr. psychol, Denison, 50-51, asst. prof, 51-55; training specialist air defense, Rand Corp, 55-57; sr. training specialist, Syst. Develop. Corp, 57-59; chief human factors support, Minuteman, BOEING CO, 59-61, syst. eval. adv. ballistic missiles, 61-66, SYSTS. SCIENTIST, 66- U.S.A, 43-44. Psychol. Asn. System training; human factors, systems analysis and engineering in advanced weapon and space systems; requirements for future defense and nondefense systems. Address: 304 87th Ave. N.E, Bellevue, Wash. 98004.

GAWKOSKI, DR. ROMAN S(TEPHEN), b. Clinton, Iowa, Mar. 12, 27. PSYCHOLOGY, STATISTICS. B.S, St. Louis, 50, M.A, 52; Am. Ed. Res. Asn. fel, Columbia, 54, Ph.D, 64. Assoc. dir, Scholastic Testing Serv, Inc, 55-58; instr. ed, Loyola (Ill), 55-58; coordinator testing, MARQUETTE, 58-59, asst. registr. & instr. PSYCHOL, 59-60, asst. registr. & asst. prof, 60-67, ASSOC. PROF. & UNIV. REGISTRAR, 67- Psychol. Asn; Statist. Asn; Psychomet. Soc; Coun. Measurement in Ed. Psychological tests, construction and validation. Address: Dept. of Psychology, Marquette University, Milwaukee, Wis. 53233.

GAY, DR. MERRILL C(OCHRAN), b. Fredericktown, Ohio, July 8, 07; m. 34; c. 3. ECONOMICS, POLITICAL SCIENCE. A.B, Oberlin Col, 29; M.A, Michigan, 31; Ph.D, Illinois, 36. Instr. econ, Mich. State, 36-39; asst. prof, Maryland, 39-42; head commercial specialist, for. funds control, U.S. Dept. Treas, 42-43; economist, int. trade & commerce policy, U.S. DEPT. STATE, 43-54, int. finance & econ. develop, 54-62, SR. DEVELOP. PLANNING ADV, AGENCY INT. DEVELOP, 62- Prof. lectr, American Univ, 61; rep. U.S. Econ. Cmn. Asia & Far East, India, 51, Burma, 52, Indonesia, 53, Ceylon, 54. Econ. Asn. Theory of international trade & finance; foreign economic policy, especially development and plannings. Address: 3164 Upland Terr. N.W, Washington, D.C. 20015.

GAYLE, JOHN R(OSCOE), JR, b. Negra, N.Mex, Sept. 16, 22; m. 47; c. 2. ECONOMICS. B.S, Oklahoma, 43, M.S, 49; M.B.A, Santa Clara, 67. Chemist, Phillips Petrol. Co, 46-47; Pan Am. Refining Corp, 49-51; res. chemist, Celanese Corp. Am, 51-53; chem. economist, STANFORD RES. INST, 53-61, sr. indust. economist, 61-63, GROUP PROG. MGR. TECHNO-ECON, 63- U.S.N.R, 43-46, Lt. Economic potential of new technology; energy conversion; thermoelectricity; high temperature materials; techno-economic analyses concerning raw materials, minerals and other resources, fuels, chemicals and industrial products. Publ: Co-auth, The U.S. petroleum industry, Stanford Res, 11/64; auth, Thermoelectric heating and cooling; High temperature materials. Address: Stanford Research Institute, Menlo Park, Calif. 94025.

GAYLER, PROF. GEORGE R(OOSEVELT), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GAYLOR, DR. DAVID W(ILLIAM), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GAYLORD, DR. RICHARD H(ILLIARD), b. Tampa, Fla, May 17, 16; m. 41; c. 2. PSYCHOLOGY. B.S, Florida, 40, M.A, 41; Ph.D.(psychomet), Ohio State, 49. Assoc. dir, testing serv, North Carolina, 41-45; from asst. chief statist. anal. unit to chief performance res. sect, Adj. Gen. Off, U.S. Dept. Army, 45-53; consult. to pres, res. center, Clevite Corp, 53-55; sr. res. scientist, Am. Inst. Res, 56-61; mem. prfnl. staff, weapons systs. eval. div, Inst. Defense Anal, 61-65; MEM. TECH. STAFF, RES. ANAL. CORP, 65- Pres, Action Cells, Inc, 53-64; lectr, Western Reserve, 54-55. Consult, Mil. Asst. Inst, U.S. Dept. Defense & weapons systs. eval. div, Inst. Defense Anal, 58-61. Psychol. Asn; Psychomet. Soc. Psychometrics; personnel; operations research. Address: 2116 S. Kent St, Arlington, Va. 22202.

GAYTON, PROF. ANNA H(ADWICK), b. Santa Cruz, Calif, Sept. 20, 99; m. 31; c. 1. ANTHROPOLOGY. A.B, California, 23, M.A, 24, Ph.D.(anthrop), 28. Asst. anthrop, California, 26-28, Nat. Res. Coun. fel, 28-30; ed. asst, anthrop. pub, Yale, 36-39; Guggenheim Mem. fel, 47; lectr. decorative art, CALIFORNIA, 48-49, assoc. prof, 49-55, curator, mus. anthrop, 49-65, prof. DECORATIVE ART, 55-65, EMER. PROF, 65- Rev. ed, J. Am. Folklore, 36-41. Fel. Anthrop. Asn; fel. Soc. Am. Archaeol. Indians of California; Western Indian folklore; religious festivals of the California Portuguese; primitive textiles. Address: P.O. Box 880, Santa Cruz, Calif. 95060.

GEARING, DR. F(REDERICK) O(SMOND), b. Morgantown, W.Va, Oct. 17, 22; m. 51; c. 3. ANTHROPOLOGY. M.A, Chicago, 53, Ph.D, 56. Asst. dir, Tama Indian Prog, Chicago, 54-56, instr, 56-57, res. assoc. anthrop, 61-62; asst. prof. ANTHROP, Washington (Seattle), 57-61; CALIFORNIA, RIVERSIDE, 62-64, ASSOC. PROF, 64- U.S.A, 42-45. Fel. Anthrop. Asn. Social controls beyond kinship; emergent territorial organization and action research in small communities; anthropology and education. Publ: Structural poses of 18th century Cherokee villages, Am. Anthropologist; Priests and warriors: structures for Cherokee politics in the 18th century, Mem. Am. Anthrop. Asn; The third culture strategy in the primary grades, Proc. Claremont Reading Conf. Address: Dept. of Anthropology, University of California, Riverside, Calif. 92502.

GEARTY, REV. PATRICK W(ILLIAM), Econ, see 10th ed, Soc. & Behav. Vols.

GEARY, PROF. THOMAS CARLTON, b. Cascade, Iowa, Oct. 13, 12; m. 41; c. 2. POLITICAL SCIENCE. B.A, Columbia Col.(Iowa), 33; M.A, Iowa, 34, Ph.D.(polit. sci), 37. Asst. prof. GOVT, SOUTH DAKOTA, 37-42, assoc. prof, 42-46, PROF, 46- Lectr, North Dakota, summer 48. U.S.N.R, 42-46, Lt. Polit. Sci. Asn. American and state government and politics; American political parties. Publ: Government of South Dakota, Midwest-Beach, 62; Law making in South Dakota, Gov. Res. Bur, Univ. South Dakota, 65. Address: Dept. of Government, University of South Dakota, Vermillion, S.Dak. 57069.

GEBHARD, DR. J(ACK) W(ENDELL), b. Detroit, Mich, Aug. 9, 12; m. 41; c. 3. PSYCHOLOGY. A.B, Wayne, 34; M.A, Michigan, 36, fel, 36-39, Ph.D.(psychol), 41. Instr. psychol, Maine, 39-42; assoc, Illinois, 42-43; res. assoc, systs. res. field lab, HOPKINS, 46-48, asst. prof. eng. psychol, inst. coop. res, 48-51, MEM. PRIN. STAFF, APPL. PHYSICS LAB, 51- Mem, Armed Forces-Nat. Res. Coun. Cmt. Vision, 48-, exec. coun, 67-71. U.S.A, 43-46. AAAS; Psychol. Asn. Human experimental psychology; engineering psychology; psychophysiology of vision. Address: Applied Physics Lab, Johns Hopkins University, 8621 Georgia Ave, Silver Spring, Md. 20910.

GEBHARD, PROF. PAUL HENRY, b. Rocky Ford, Colo, July 3, 17; m. 39; c. 3. ANTHROPOLOGY. B.S, Harvard, 40, M.A, 42, Ph.D.(anthrop), 47. Asst. supt, Works Progress Admin, Pa, 41-42; res. assoc. psychiat, Mass. Gen. Hosp, 43-45; anthropometrist, Harvard, 45; instr. ANTHROP, INDIANA, 47-53, asst. prof, 53-61, assoc. prof, 61-67, PROF, 67-, DIR. INST. SEX RES, 56-, res. assoc, 46-56. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; fel. Sociol. Asn. Archaeology; human sexual behavior. Publ: Co-auth, Sexual behavior in the human female; Pregnancy, birth and abortion; Sex offenders: an analysis of types, Harper, 65. Address: 416 Morrison Hall, Indiana University, Bloomington, Ind. 47401.

GEBHART, DR. GEORGE R, b. Miamisburg, Ohio, Sept. 21, 30; m. 55; c. 3. ECONOMIC DEVELOPMENT, INTERNATIONAL ECONOMICS. B.S, Dayton, 59; M.A, Miami (Ohio), 60; Ph.D.(econ), Mich. State, 66. ASST. PROF. ECON, Ferris State Col, 64-65; Monmouth Col.(Ill), 65-67; TEXAS, AUSTIN, 67- Research in Costa Rica, 66-67. U.S.A, 51-53. Econ. Asn. Economic development of the underdeveloped countries, especially in Latin America. Address: Dept. of Economics, B.E.B 401, University of Texas, Austin, Tex. 78712.

GEE, DR. HELEN HOFER, b. St. Paul, Minn, Mar. 23, 19; m. 43. PSYCHOLOGY. B.A, Minnesota, 42, M.A, 45, fel, 51-55, Ph.D.(psychol), 55. Student counsr, Minnesota, 45-47; dir. counseling serv, Northwest. Mo. State Col, 47-51; dir. res, Asn. Am. Med. Cols, 55-62; vis. prof. psychol, Oregon, 62-63; behav. sci. consult, Nat. Inst. Child Health & Human Develop, 63-65, SCI. ADMINSTR. COMPUT. RES, DIV. RES. GRANTS, NAT. INSTS. HEALTH, 65- Lectr, Northwestern, 56-57; Edinburgh, 61. AAAS; Psychol. Asn; Psychomet. Soc; Psychonomic Soc; Statist. Asn; Biomet. Soc; Asn. Comput. Mach. Interest and personality measurement; selection procedures; classification; medical education; biomedical computing. Address: Computer Research-Division of Research Grants, National Institutes of Health, Westwood Bldg, Room 357, Bethesda, Md. 20014.

GEEN, DR. RUSSELL GLENN, b. Ironwood, Mich, May 3, 32; m. 60; c. 2. PSYCHOLOGY. B.A, Mich. State, 54; M.S, Wisconsin, 64, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, MISSOURI, COLUMBIA, 67- Psychol. Asn. Agression; motivation; affective processes; experimental study of personality. Address: Dept. of Psychology, University of Missouri, Columbia, Mo. 65201.

GEER, DR. JAMES HENDERSON, b. Johnstown, Pa, Sept. 27, 32; m. 55; c. 2. PSYCHOLOGY. Lectr. PSYCHOL, State Univ. N.Y. Buffalo, 62-63, asst. prof, 63-65; Pennsylvania, 65-67; ASSOC. PROF, STATE UNIV. N.Y. STONY BROOK, 67- Summer vis. lectr, Wisconsin, 67. Consult, Choice, Am. Library Asn. U.S.A.F, 55-57, 1st Lt. AAAS; Psychol. Asn; Soc. Psychophysiol. Res. Investigation of the orienting response and human emotions using psychophysiological procedures. Publ: Measurement of the conditioned cardiac response, J. Comp. & Physiol. Psychol, 57: 426-433; Effect of interstimulus intervals and rest period length upon habituation of the orienting response, J. Exp. Psychol, 72:617-619; Fear and autonomic arousal, J. Abnorm. Psychol, 71:253-255. Address: Dept. of Psychology, College of Arts & Sciences, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

GEERTSMA, DR. ROBERT H(ENRY), Clin. Psychol, see 11th ed. Phys. & Biol. Vols.

GEERTZ, PROF. CLIFFORD, b. San Francisco, Calif, Aug. 23, 26; m. 48; c. 2. ANTHROPOLOGY. A.B, Antioch Col, 50; Ph.D.(anthrop), Harvard, 56. Res. assoc, lab. soc. rels. & instr. soc. rels, Harvard, 56-57; res. assoc, center int. studies, Mass. Inst. Tech. in Indonesia, 57-58; fel, Center Adv. Study Behav. Sci, 58-59; asst. prof. ANTHROP, California, 59-60; CHICAGO, 60-61, assoc. prof, 61-64, PROF, 64- Mem, Cmt. Comp. Study New Nations, 60-, chmn, 68- Anthrop. Asn; Soc. Sci. Study Relig; Asia Soc; fel. Am. Acad. Arts & Sci. Publ: The religion of Java, Macmillan, 60; Agricultural involution, Univ. California, 63; Islam observed, Yale, 68. Address: Dept. of Anthropology, University of Chicago, Chicago, Ill. 60637.

GEEVARGHESE, DR. PUTHENPEEDIKAYIL KOSHY, b. Kerala, India, May 7, 33; m. 65. SOCIOLOGY, ANTHROPOLOGY. B.D, Serampore Col, W.Bengal, India, 58; S.T.M, Union Theol. Sem, 59; M.A, Miami (Ohio), 61; grants, Ohio State, 63-64, Ph.D.(sociol), 64. Instr. sociol, Gettysburg Col, 64-65, asst. prof, 65-68; ASSOC. PROF. SOCIOL. & ANTHROP, CHATTANOOGA, 68- Res. grant, Gettysburg Col, 66-67; summer lectr, Chattanooga, 66. Sociol. Asn. Address: Dept. of Sociology, University of Chattanooga, Chattanooga, Tenn. 37403.

GEHLEN, DR. MICHAEL PIERPONT, b. Marshall, Tex, Oct. 10, 34; m. 67. POLITICAL SCIENCE. B.A, Texas Christian, 56; M.A, Vanderbilt, 57; Ph.D.(polit. sci), Texas, 63. Asst. prof. POLIT. SCI, Oregon State, 63-65; Purdue, 65-66, assoc. prof, 66-67; VIS. ASSOC. PROF, California, Berkeley, 67-68; PURDUE, 68- Summers, res. fel, Purdue, 66, res. grant, Center Slavic & E.European Studies, California, Berkeley, 67. Polit. Sci. Asn. Soviet

political system; Soviet foreign policy; comparative political analysis. Publ: The politics of coexistence, Indiana Univ, 67; The Soviet Union: literary conflict and the Sinyavsky-Daniel affair, In: Politics and civil liberties in Europe, 67; Political integration in East Europe, J. Polit, 3/68. Address: Dept. of Political Science, Purdue University, Lafayette, Ind. 47907.

GEHLMANN, DR. FREDERICK, Psychol, see 10th ed, Soc. & Behav. Vols.

GEHMAN, CLAYTON, b. Chalfont, Pa, Apr. 12, 11; m. 42; c. 2. ECONOMICS. Ph.B, Wisconsin, 33. Res. asst. consumer's adv. bd, Nat. Recovery Admin, 33-36; economist, FED. RESERVE BD, 36-49, CHIEF BUS. CONDITIONS SECT. RES. DIV, 49- Res. adv. Off. Price Admin. & Off. Econ. Stabilization, 42-43. Fel. Statist. Asn. Prices and production developments and their measurement; economic analysis. Publ: Commodity prices, Statist. Activities Am. Nations; Measuring and analyzing economic growth, 8/63 & co-auth, Measures of industrial production and final demand, 1/67, Fed. Reserve Bull. Address: 5513 Namakagan Rd, Washington, D.C. 20016.

GEHMAN, DR. W(INFIELD) SCOTT, b. Pa, Oct. 21, 19; m. 46. PSYCHOLOGY. B.S, Pa. State, 41, M.S, 47, Ph.D.(clin. psychol), 51. Asst. prof. psychol. & asst. dir. div. intermediate registration, Pa. State, 52-54; asst. prof. ed. & sr. counsr. bur. testing & guid, DUKE, 54-57, ASSOC. PROF. PSYCHOL. IN ED, 57- U.S.N, 44-46. AAAS; fel. Psychol. Asn. Clinical, counseling and educational psychology; psychology and religion; learning theory. Publ: Co-auth, Division of intermediate registration at the Pennsylvania State University, Sch. & Society; Problems of college sophomores with serious scholastic difficulties & co-auth, Kuder electrical engineering occupational scale for counseling college students, J. Counseling Psychol. Address: 2703 Spencer St, Durham, N.C. 27705.

GEHRELS, DR. FRANZ, b. Eckernfoerde, Germany, Mar. 20, 22; nat; m. 50; c. 2. ECONOMICS. A.B, Stanford, 42, Soc. Sci. Res. Coun. fel, 49-50, Ph.D, 53. Econ. analyst, Mutual Security Agency, 50-53; ASST. PROF. ECON, Minnesota, 53-54; INDIANA, 56- U.S.A, 43-46. Econ. Asn. International trade and finance; employment theory. Publ: Income generating effects of a growing public debt, Rev. Econ. & Statist; Co-auth, Interest rates and manufacturers fixed investment, 57 & Factor proportions and decreasing opportunity cost, 65, Am. Econ. Rev. Address: Dept. of Economics, Indiana University, Bloomington, Ind. 47401.

GEHRKE, DR. WILLIS T(IMOTHY), b. Mayville, Wis, Oct. 14, 15; m. 44; c. 2. GEOGRAPHY. A.B, Valparaiso, 39; B.S, Wis. State Teachers Col, 40; A.M, Chicago, 42; Ph.D.(geog), Wisconsin, 52. Asst. instr. geog, Missouri, 42; asst. prof, Florida, 48-49; RES. ANALYST, U.S. GOVT, 49- Vis. lectr, Howard, 51, 55-65; lectr, American Univ, 53-55; Maryland, 67- U.S.A, 42-45. Asn. Am. Geog; Royal Geog. Soc. Freight traffic geography of the Seaboard railroad; wind flow diagram; transportation geography; Union of Soviet Socialist Republic geography; China geography. Publ: Railroad of Asia, Encyclop. Americana, 59. Address: 701 S. Wayne St, Arlington, Va. 22204.

GEIB, PROF. FREDERICK A(RTHUR), Sociol, see 10th ed, Soc. & Behav. Vols.

GEIER, DR. JOHN G, b. Denver, Colo, Jan. 24, 34; m. 51; c. 6. COMMUNICATION, SOCIAL PSYCHOLOGY. B.A, Northwestern Col, 58; M.A, Minnesota, 60, Ph.D.(commun, soc. psychol), 63. Instr. commun, Northwestern Col, 58-60, asst. prof, 60-62, assoc. prof, 62-63, asst. pres, 63-65; asst. prof. rhet, MINNESOTA, MINNEAPOLIS, 65-66, lectr. soc. sci. & asst. dean summer sch, 66-67, DIR. COMMUN. & BEHAV. SCI, 67- Consult, Off. Econ. Opportunity, 65-; Nat. Asn. Funeral Dir, 65-; heart-exercise community exp, Univ. Minnesota, 66-67; Minnesota Proj. Town Meeting, 66. Soc. Study Commun. Psychology of communication; interpersonal relations. Publ: Co-auth, Town meeting—leadership, Univ. Minnesota, 66; auth, A trait approach to leadership, J. Commun, 67; Interpersonal communication, Director, 67. Address: University of Minnesota, 146 Owre Hall, Minneapolis, Minn. 55455.

GEIGER, PROF. H(OMER) KENT, b. Ohio, June 23, 22; m. 50. SOCIOLOGY. A.B, Princeton, 47; A.M, Harvard, 50, traveling fel, 50-51, Ph.D.(sociol), 55. Instr. SOCIOL, Tufts, 54-55, asst. prof, 55-59, assoc. prof, 60-61; Ohio State, 61-63; vis. assoc. prof, California, Berkeley, 63-64; PROF, WISCONSIN, MADISON, 64- Res. fel, Russian Res. Center, Harvard, 54-55, 58-59. U.S.A, 43-46. Sociol. Asn. Soviet social institutions; societal development; social organization. Publ: Co-ed, Soviet society, Houghton, 61; ed, Comparative perspective on marriage and the family, Little, 68; auth, The family in Soviet Russia, Harvard, 68. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

GEIGER, DR. H(OWARD) E(UGENE), b. Perrysburg, Ohio, Mar. 26, 10; m. 37; c. 4. PSYCHOLOGY. A.B, Albion Col, 36; M.S, Purdue, 37, Ph.D.(psychol), 40. Asst. ed. & appl. psychol, Purdue, 36-39; prof. psychol. & head dept, Albion Col, 39-46; consult. psychologist, Rohrer, Hibler & Replogle, 46-52; PARTNER, WILLIAM, LYNDE & WILLIAMS, 52- Fel. AAAS; fel. Psychol. Asn. Attitude measurement; test construction. Address: Route 1, Olivet, Mich. 49076.

GEIGER, PROF. LOUIS G(EORGE), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GEIL, GEORGE A, b. Pawnee Rock, Kans, Sept. 28, 01; m. 34; c. 2. PSYCHOLOGY. A.B, Phillips, 27, B.S, 31; M.A, Pittsburgh, 30. Asst. psychol, Pittsburgh, 29-30, instr, 32-33; psychologist, Thorn Hill Sch, 33-35; Juvenile Court, Allegheny County, Pa, 35-40; clin. psychologist, MED. CENTER FED. PRISONERS, U.S. PUB. HEALTH SERV, 40-64, CONSULT. PSYCHOLOGIST, 64- Lectr, Drury Col, 50-57; psychologist, Greene County Guid. Clin, 52- Award, U.S. Pub. Health Serv, 52; superior serv. award, U.S. Dept. Health, Ed. & Welfare, 55. Psychol. Asn; Med. Correctional Asn; Soc. Proj. Tech. Psychopathic personality disorders; homosexuality; intelligence measurement. Publ: Similarity in Rorschach patterns of adult criminal psychopaths and pre-adolescent boys; Use of the Goodenough test for revealing male homosexuality, J. Criminal Psychopath; Clinically useful abbreviated Wechsler-Bellevue scale, J. Psychol. Address: 1428 W. Cherokee St, Springfield, Mo. 65804.

GEIL, PROF. MILTON G(EORGE), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 62.

GEIS, DR. GEORGE LAWRENCE, b. Lynbrook, N.Y, Dec. 6, 29. PSYCHOLOGY. A.B, Columbia, 53, M.A, 55, Ph.D.(psychol), 65. Instr. PSYCHOL, Columbia, 56-59; Hamilton Col, 59-61, ASST. PROF, 61-64; MICHIGAN, 64- Res. assoc, center res. on learning & teaching & center res. on lang. & lang. behavior, Univ. Michigan, 64- AAAS; Psychol. Asn; Ed. Res. Asn. Programmed instruction; psycholinguistics; discrimination learning. Publ: Co-auth, The study of behavior, Appleton, 64; auth, Some considerations in the evaluation of programs. Address: 1315 Hill St, Ann Arbor, Mich. 48104.

GEIS, PROF. GILBERT LAWRENCE, b. Brooklyn, N.Y, Jan. 10, 25; m. 48; c. 2. SOCIOLOGY. A.B, Colgate, 47; Stockholm, 47; M.S, Brigham Young, 49; univ. fel, Wisconsin, 49-51, Ph.D.(sociol), 53; Soc. Sci. Res. Coun. & Fulbright fels, Oslo, 51-52. Instr. sociol, Oklahoma, 52-54, asst. prof, 55-57; res. dir, State Crime Study Cmn, Okla, 54-55; asst. prof. SOCIOL, CALIF. STATE COL. LOS ANGELES, 57-59, assoc. prof, 59-63, PROF, 63- Res. fel, Harvard Law Sch, 64-65. U.S.N, 43-46. Sociol. Asn. Criminology; race relations; Scandinavian studies. Publ: Co-auth, Man, crime and society, Random, 62; Longest way home, Wayne State, 64; ed, White-collar criminal, Atherton, 68. Address: Dept. of Sociology, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

GEISEL, DR. PAUL M, b. Redlands, Calif. July 31, 34; m. 61; c. 1. SOCIOLOGY. B.A, Willamette, 56; M.A, Vanderbilt, 58, Ph.D.(sociol), 62. Res. assoc. sociol, Tuskegee Inst, 59-60; asst. prof, Rollins Col, 60-61; asst. prof. & res. assoc, Pittsburgh, 61-65; dir. soc. res, Can. Welfare Coun, 65-67; ASSOC. PROF. SOCIOL, ARIZONA STATE, 67- Sociol. Asn; Pop. Asn. Mental health; sociology of work; community; poverty; race relations. Publ: Co-auth, Social readiness of southern youth, Taconic Found, 59; auth, Meaning of work and mental illness, In: Blue collar world, Prentice-Hall, 62; co-auth, Decision to desegregate, Sociometry, 62. Address: Dept. of Sociology, Arizona State University, Tempe, Ariz. 85281.

GEISERT, PROF. HAROLD LORAN, Sociol, Demog, see 10th ed, Soc. & Behav. Vols, deceased 64.

GEISERT, PRES. WAYNE F(REDERICK), b. Elmo, Kans, Dec. 20, 21; m. 44; c. 3. ECONOMICS. A.B, McPherson Col, 44; Ph.D.(econ), Northwestern, 51. Instr. econ. & acct, Kendall Col, 48-50; asst. money & banking, Northwestern, 50-51; assoc. prof. econ, Manchester Col, 51-54, prof, 54-57; prof. econ. & dean, McPherson Col, 57-64; PRES, BRIDGEPORT COL, 64- U.S.N.R, 44-46. Econ. Asn. International economics; money and credit. Publ: Transport costs in the theory of international trade. Address: 409 E. College, Bridgewater, Va. 22812.

GEISINGER, DR. DAVID, b. Brooklyn, N.Y, Apr. 11, 38; m. 62; c. 1. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 59, Ph.D.(clin. psychol), Syracuse, 66. Clin. psychologist, Highland Gen. Hosp, 66-67; ASSOC. DIR, BEHAV. THER. INST, 67- Res. coordinator & staff psychologist, Center Spec. Probs, 67- Behav. ther. consult, Langley Porter Neuropsychiat. Inst, 67- Psychol. Asn; Asn. Adv. Behav. Ther. The modification of human behavior, through the use of techniques derived from learning theory; behavior therapies. Address: 1017 Hayes St, San Francisco, Calif. 94117.

GEISINGER, DR. KARL W, b. Allentown, Pa, Jan. 29, 21; m. 43; c. 3. PSYCHOLOGY. A.B, Pennsylvania, 47; M.Ed, Temple, 48, Ph.D, 60. Instr. PSYCHOL, Susquehanna, 48-51; Ogontz Center, Pa. State, 52-53; ASSOC. PROF, DREXEL INST, 53-, CHMN. DEPT. PSYCHOL. & ED, 65- Indust. consult. U.S.A.A.F, 42-45; Med.Serv.C.Res, 51-, Maj. Industrial psychology; vocational counseling. Address: Dept. of Psychology, Drexel Institute of Technology, Philadelphia, Pa. 19104.

GEISINGER, WILLIAM ROBERT, b. Fredricksburg, Va, Oct. 21, 08; div; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Dartmouth Col, 30; George Washington, 52. With Cent. Trust Co, Ohio, 30-40; economist, Montgomery Ward & Co, Ill, 40-49; mkt. & forecasting exec, Kroger Co, Ohio, 49-54; mkt. & distribution specialist, Int. Coop. Admin, Germany, 55; MGT. CONSULT, 56- Teacher, eve. sch, Cincinnati, 37-40; Am. Inst. Banking, 38-40; lectr, Miami (Ohio), 39-40; Northwestern, 48; exam, Reconstruct. Finance Corp, 38-39; chief food & restaurant div, Off. Price Stabilization, 52; dir, New Arts & Sci. Found. Econ. Asn; Statist. Asn; Mgt. Asn; Planning Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Publ: Geisinger indicators for forecasting business activity for United States, Germany and Italy. Address: Geisinger Indicator, P.O. Box 279, 108 S. Monroe St, Troy, Ohio 45373.

GEISLER, DR. R. GENE, b. Jefferson Co, Mo, Sept. 23, 28. POLITICAL SCIENCE. B.A, George Washington, 49; N.Y. State Civil Serv. Cmn. fel. & M.A, Connecticut, 51; Am. Polit. Sci. Asn. fel, Chicago, 55, Ph.D.(polit. sci), 58. Asst. prof. POLIT. SCI, Ill. Inst. Tech, 57-60; ASSOC. PROF, SAN FRANCISCO STATE COL, 60- Assoc. prof, Makerere Univ. Col, Uganda, 64-65. U.S.A, 51-54, 1st Lt. Polit. Sci. Asn. Political behavior; computer applications in political science methodology; American government and politics. Publ: Congressional campaign behavior, Nat. Center Ed. Polit, 64. Address: Dept. of Political Science, San Francisco State College, San Francisco, Calif. 94132.

GEISMAR, PROF. LUDWIG L(EO), b. Germany, Feb. 25, 21; nat; m. 48; c. 2. SOCIOLOGY. B.A, Minnesota, 47, M.A, 50; Ph.D.(sociol), Hebrew Univ, Israel, 56. Coordinator soc. res, Ministry Soc. Welfare, Israel, 54-56; res. dir, Family Centered Proj, Minn, 56-59; assoc. prof. soc. res, RUTGERS, 59-62, PROF. SOC. WORK & SOCIOL, 62- Lectr, Israel Sch. Soc. Work, 55-56; dir. soc. welfare res, neighborhood improv. proj, Coun. Soc. Agencies, Conn, 60-; dir, Family Life Improv. Proj. Res. consult, Area Develop. Proj, Vancouver, B.C, 64-; U.S. del. & consult, Conf. Int. Union Family Orgn, New Delhi, India, 66. Mem, rev. team community develop. Mediterra-

nean countries, UN, 55; accreditation cmn, Coun. Social Work Ed, 65-68. U.S.A, 42-45, Sgt. Fel. Sociol. Asn; Nat. Coun. Family Rels; Soc. Study Social Probs; Asn. Social Workers. Problems of minority groups; community organization; the disorganized family; family diagnosis and treatment. Publ: Co-auth, Patterns of change in problem families; Understanding the multi-problem family, Asn. Press, 64; The forgotten neighborhood, Scarecrow, 67. Address: Graduate School of Social Work, Rutgers, the State University, New Brunswick, N.J. 08903.

GEIST, DR. HAROLD, b. Pittsburgh, Pa, July 22, 16. PSYCHOLOGY. A.B, Cornell, 36; A.M, Columbia, 37; Ph.D.(ed), Stanford, 51. Assoc. advisement & guid. officer, cent. off, Vet. Admin, 46-47; psychologist, U.S. Naval Hosp, Mare Island, Calif, 47-48, chief clin. psychologist, 51-52; supv. psychologist, off. supt. schs, Calif, 52-53; CLIN. PSYCHOLOGIST, 53-; PRIN. INVESTR. RES. PROJ, OFF. VOC. REHAB, U.S. DEPT. HEALTH, ED. & WELFARE, 58- Lectr, California, 51-; East Contra Costa Col, 54-; res. grant, North. Calif. Br, Am. Arthritis Found, 63-65; part-time sr. clin. psychologist, Napa State Hosp, Imola, Calif, 66-; vis. assoc. prof, San Francisco State Col, 67- Consult, supt. pub. schs, Calif, 56-59; Ministry of Ed, P.R, 59- U.S.A, 42-46. Psychol. Asn; Personnel & Guid. Asn; Interam. Soc. Psychol; Voc. Guid. Asn. Psychotherapy; construction of interest tests using pictures for handicapped groups; psychological aspects of rheumatoid arthritis, diabetes and other psychosomatic diseases; geriatrics. Publ: A child goes to the hospital, 65, The psychological aspects of rheumatoid arthritis, 66 & The psychological aspects of retirement, 68, C.C. Thomas. Address: 2255 Hearst Ave, Berkeley, Calif. 94709.

GEIWITZ, DR. P(ETER) JAMES, b. Minneota, Minn, June 9, 38; m. 63; c. 1. PSYCHOLOGY. B.A, St. Olaf Col, 60; fels, U.S. Pub. Health Serv, Michigan, 60, Nat. Sci. Found, 62, Nat. Inst. Ment. Health, 63, Ph.D.(psychol), 64. Instr. psychol, Michigan, 64-65; ASST. PROF. PSYCHOL, STANFORD & RES. ASSOC, INST. POLIT. STUDIES, 65- Psychol. Asn; Soc. Psychol. Study Social Issues. Interpersonal processes, especially conflict and communication; interactions between personality and environmental structures. Publ: Non-Freudian theories of personality, Brooks-Cole, 68; The effect of threats on prisoner's dilemma, 67 &co-auth, Principles of cognitive reverberation, 67, Behav. Sci. Address: Dept. of Psychology, Stanford University, Stanford, Calif. 94305.

GEKOSKI, PROF. NORMAN, b. Philadelphia, Pa, Oct. 22, 17; m. 41; c. 2. PSYCHOLOGY. B.S, Temple, 38, M.Ed, 48; Ph.D.(psychol), Ohio State, 52. Instr. PSYCHOL, Pa. Area Col. Center, 47-48; asst, Ohio State, 49-50; from asst. prof. to PROF, TEMPLE, 51-; CONSULT. INDUST. PSYCHOLOGIST, 48- Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. U.S.A, 41-45, Maj. Psychol. Asn; Indust. Rels. Res. Asn. Employee relations improvements; attitude formation, change and measurement; supervisory and executive development and training. Publ: Predicting group productivity, Personnel Psychol; What's an industrial psychologist, Greater Phila. Mag; Note on another use of the sentence-completion technique, J. Appl. Psychol. Address: Dept. of Psychology, Temple University, Philadelphia, Pa. 19122.

GELB, DR. LESLIE H, b. New Rochelle, N.Y, Mar. 4, 37; m. 59; c. 2. POLITICAL SCIENCE. A.B, Tufts, 59; Ph.D, Harvard, 64. Asst. prof. govt, Wesleyan, 64-66; exec. asst. to Sen. Jacob K. Javits, N.Y, 66-67; DEP. DIR, POLICY PLANNING STAFF, INT. SECURITY AGENCY, U.S. DEFENSE DEPT, 67- Address: 2405 Elba Court, Alexandria, Va. 22306.

GELBER, DR. BEATRICE, b. New York, N.Y, Apr. 15, 03; wid; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Indiana, 49, M.A, 51, fel, 51-52, Ph.D. (exp. psychol), 53. Asst. psychol, U.S. Air Force proj, Indiana, 51-53; fel. psychol, Nat. Inst. Ment. Health, 54-55; res. assoc, Chicago, 55-60; pres. & prog. dir, Basic Health Res. Inst, Tucson, Ariz, 60-65; RETIRED. Prin. investr, grant, Nat. Inst. Ment. Health, 56-59, Nat. Heart Inst, 58- AAAS; Ecol. Soc; Soc. Protozool; Psychol. Asn. Behavior and life cycle of Paramecium aurelia; cytological and biochemical relations of intracellular events to behavioral plasticity; cellular loci for acquired characters. Address: 1481 S. Ocean Blvd, Apt. 136, Pompano Beach, Fla. 33062.

GELBMANN, DR. FREDERICK J(OHN), b. St. Paul, Minn, July 13, 25; m. 48; c. 6. CLINICAL PSYCHOLOGY. B.S, St. Louis, 49; M.A, Catholic Univ, 52, Ph.D, 58. Chief clin. psychologist, Dept. Youth Conserv. Reception Center, State Reformatory Men, Minn, 55-62; DIR, MINN. RECEPTION & DIAG. CENTER AT LINO LAKES, CIRCLE PINES, 62- U.S.A, 44-46. Psychol. Asn. Diagnosis and treatment of juvenile and youthful offenders; group process and group psychotherapy; operant research with juvenile offenders; elementary guidance; family therapy. Publ: Authoritarianism and temperament, Catholic Univ, 58; co-auth, Crime revisited, Documents Sect, Dept. Admin, St. Paul, Minn, 63 & A study of the implementation and outcome of a correctional reception and diagnostic center's recommendations to treatment agencies, Sect. Res. & Statist, Minn. Dept. Corrections, 68. Address: 294 Janice St, St. Paul, Minn. 55112.

GELDARD, PROF. FRANK A(RTHUR), Psychol, see 11th ed, Phys. & Biol. Vols.

GELFAND, DR. DONNA M(AE LARSEN), b. Eugene, Ore, May 15, 37; m. 60; c. 1. PSYCHOLOGY. A.B, Reed Col, 58; U.S. Publ Health Serv. fel, Stanford, 59-60, M.A, 60, Ph.D.(psychol), 61. Asst. prof. psychol, San Jose State Col, 62; psychologist, community ment. health serv, San Jose City Health Dept, 62-63; ASST. PROF. PSYCHOL, UTAH, 63- Psychol. consult, Ft. Douglas Vet. Admin. Hosp, 65- Psychol. Asn. Children's observational learning; behavioristic psychotherapy evaluation. Publ: Influence of self-esteem on rate of verbal conditioning and social matching behavior, J. Abnorm. & Soc. Psychol, 62; Unprogrammed reinforcement of patients' behavior in the mental hospital, Behavior Res. & Ther, 67; Behavior therapy with children: a review and evaluation of research methodology, Psychol. Bull, 3/68. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

GELFAND, PROF. JACK E(MANUEL), b. New York, N.Y, Sept. 3, 19; m. 46; c. 2. ECONOMICS. B.A, Brooklyn Col, 43, M.A, 48; Ph.D, N.Y. Univ, 56. Asst. econ, N.Y. Univ, 49; instr, Lehigh, 49-52; indust. economist, Fed. Trade Cmn, 52-54; asst. prof, Ithaca Col, 54-57; assoc. prof, Temple, 57-66; PROF. POLIT. ECON. & DIR. PROG, GRAD. SCH. PUB. AFFAIRS, STATE UNIV. N.Y. ALBANY, 66- U.S.A.A.F, 42-46, Capt. AAAS; Econ. Asn; Finance Asn; Economet. Soc. Economic theory; monetary and fiscal policies; econometrics; long-run static macroeconomic equilibrium models. Publ: Financing lower-middle income housing, Pa. Dept. Commerce, 64; The population of Pennsylvania, Pa. State Planning Bd, 64; The credit elasticity of lower-middle income housing demand, Land Econ, 66. Address: Graduate School of Public Affairs, State University of New York at Albany, Albany, N.Y. 12203.

GELFAND, L(EONARD), b. Winnipeg, Man, Apr. 26, 23; m. 46; c. 2. PSYCHOLOGY. B.A, Manitoba, 46; fel, Toronto, 46-53, M.A, 49. Asst. & lectr. psychol, Toronto, 46-53; asst. psychiat, Toronto, 53-56; mkt. res. analyst, Can. Facts, Ltd, Ont, 56-57; mkt. res. mgr, CAN. NAT. RWYS, 57-66, MKT. INFO. MGR, 66- Lectr, Sir George Williams, 65- Summers, psychol. intern, dept. vet. affairs, Sunnybrook Hosp, Can, 47-48; asst, Defense Res. Bd, Can, 49; group dynamics & motor skills lab, Toronto, 50-52. R.C.A.F, 43-45. Psychol. Asn; Mkt. Asn; Can. Psychol. Asn. Research design and analysis; learning; social psychology; attitude and opinion measurement; human engineering; personnel; management; administration. Publ: Inter-judge agreement on traits rated from the Rorschach, J. Consult. Psychol; Automatic switch with variable off and on intervals, Can. J. Psychol; Who should cast the first stone?, Ont. Psychol. Asn. Quart. Address: 1225 Chamferan St, Montreal 9, Que, Can.

GELFAND, DR. SIDNEY, b. Philadelphia, Pa, July 10, 22; m. 59. PSYCHOLOGY. B.A, Temple, 47, M.A, 48; Maryland, 48-51; Ph.D, Utah, 58. Instr, Maryland, 51-52; ed. specialist, U.S. Air Force, Germany, 52-56; psychol. trainee, Vet. Admin. Hosp, Salt Lake City, Utah, 56-58; U.S. Pub. Health Serv. res. fel. community ment. health, Harvard Med. Sch-Mass. Gen. Hosp, 58-59; CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, Palo Alto, Calif, 59-63, SALT LAKE CITY, UTAH, 63- Clin. instr, dept. psychiat, col. med, Utah, 64-, lectr, dept. psychol, univ, 66- Consult, Abbott Labs, 66-67. U.S.A, 43-46. AAAS; fel. Psychol. Asn. Experimental analysis of social and personality correlates of placebo response; experimental pain threshold and pain tolerance; behavior modification of psychotics; psychopharmacology of stimulants. Publ: The relationship of experimental pain tolerance to pain threshold, Can. J. Psychol, 64; co-auth, Unprogrammed reinforcement of patients' behavior in a mental hospital, Behavior Res. & Ther, 5/67; auth, Magnesium Pemoline: stimulant effects on performance of fatigued subjects, Clin. Pharmacol. & Therapeut, 1-2/68. Address: Veterans Administration Hospital, Salt Lake City, Utah 84113.

GELFOND, PROF. ABRAHAM, b. Elizabeth, N.J, June 17, 15; m. 40; c. 2. PSYCHOLOGY. B.S, Rutgers, 38; M.A, N.Y. Univ, 47, Ph.D.(psychol), 52. Supvr. guid, pub. schs, N.J, 49-57; prin, Soehl Jr. High Sch, Linden Pub. Schs, 57-63; PROF. PSYCHOL, MONTCLAIR STATE COL, 63-, vis. prof, 54-63. Private practice, 52- U.S.A, 43-46, Lt. Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed. Adolescent psychology; guidance in education; psychotherapy. Address: 1126 Debra Dr, Linden, N.J. 07036.

GELLER, GERALD, Indust. Eng, see 11th ed, Phys. & Biol. Vols.

GELLER, HARVEY, b. New York, N.Y, July 6, 21; m. 46; c. 3. PUBLIC HEALTH STATISTICS. A.B, Brooklyn Col, 43; N.Y. Univ, 46-49; Grad. Sch. Dept. Agr, 49-52. Statistician, City Dept. Health, New York, 46-49; anal. statistician, bur. cancer control, Health Dept. D.C, 49-51; div. civilian health requirements, U.S. Publ Health Serv, 51-53; biomet. dept, off. surgeon gen, U.S. Dept. Air Force, 53, sch. aviation med, Air Univ, 54-55; supvry. statistician, chronic disease prog, div. spec. health serv, bur. state serv, U.S. PUB. HEALTH SERV, 55-58, chief statistician, cancer control prog, div. chronic diseases, 58-64, CHIEF OPER. STUDIES SECT, CANCER CONTROL PROG, NAT. CENTER CHRONIC DISEASE CONTROL, BUR. DISEASE PREV. & ENVIRON. CONTROL, 64- Statist. consult, Am. Joint Cmn. for Cancer Staging & End Results Reporting, 65- Mem, Int. Union Against Cancer, 66. U.S.A, 42-45. Statist. Asn; Pub. Health Asn; Pub. Health Cancer Asn. Application of research findings and improvement of existing techniques and instruments for early detection of cancer; evaluation of program activity accomplishments; data collection systems for program planning; epidemiology. Address: Cancer Control Program, National Center for Chronic Disease Control, 4040 N. Fairfax Dr, Arlington, Va. 22203.

GELLER, DR. IRVING, Psychol, see 11th ed. Phys. & Biol. Vols. & Suppl. II.

GELLERMAN, DR. SAUL W(ILLIAM), b. Brooklyn, N.Y, Jan. 8, 29; m. 53; c. 3. PSYCHOLOGY. A.B, Missouri, 49, M.A, 50, Ph.D.(psychol), 56. Dir. psychol. serv, Personnel Lab, Inc, 56-59; personnel res. assoc, Int. Bus. Mach. Corp, 59-62, mgr. personnel res, Int. Bus. Mach. World Trade Corp, 62-66, exec. res. consult, Int. Bus. Mach. Corp, 66-67; PRES, SAUL W. GELLERMAN & CO, 67- Med.Serv.C, 51-53, 1st Lt. Psychol. Asn. Psychology of careers; industrial motivation. Publ: Management of human relations, Holt, 66; Motivation and productivity, 63 & Management by motivation, 68, Am. Mgt. Asn. Address: Saul W. Gellerman & Co, 21 Parkway, Harrington Park, N.J. 07640.

GELLERMANN, DR. LOUIS W(ANGER), Psychol, see 10th ed, Soc. & Behav. Vols.

GELLERMANN, DR. WILLIAM P, b. Seattle, Wash, June 2, 29. PSYCHOLOGY, ANTHROPOLOGY. B.A, Washington (Seattle), 50, M.B.A, 53; Ph.D. (orgn. behav), California, Los Angeles, 64. ASST. PROF. BEHAV. SCI, State Univ. N.Y. Buffalo, 63-65; N.Y. STATE SCH. INDUST. & LABOR RELS, CORNELL, 65- Organizational behavior and administration; community development. Publ: Co-auth, Reflections on a family group laboratory with a labor union, fall 65 & Laboratory training experience with a civil rights group, 66, Human Rels. Training News. Address: Dept. of Organization Behavior, New York State School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

GELLERT, DR. ELIZABETH, b. Vienna, Austria, Nov. 9, 26; nat. PSYCHOLOGY. Cutler scholar. & M.A, Yale, 51; Ulich grant & Austin scholar, Harvard, 54, Ed.D, 56. Asst. psychologist, Harvard Med. Sch, 55-58, McCormich Found. res. fel, 57; instr. psychol, Albert Einstein Col. Med, 58-59, asst. prof. psychiat. & pediat. & interdisciplinary fel, 59-61; asst. prof. human develop, Chicago, 61-62; res. assoc. & res. grant, Asn. Aid Crippled Children, New York, 62-65; ASSOC. PROF. PSYCHOL, HUNTER COL, 65- Sr. interdisciplinary fel, Nat. Insts. Health, 60; Soc. Sci. Res. Cmt. res. grant, Chicago, 61; Nat. Inst. Ment. Health res. grants, 62-68; Asn. Aid. Crippled Children res. grant, 64-65; City Univ. New York faculty res. grant, 67-69. Psychol. Asn; Soc. Res. Child Develop. Developmental psychology; body image development; child development; medical psychology. Publ: Children's conceptions of the content and functions of the human body, Genetic psychol. Monogr, 62; Children's laterizations of human figures: analysis of a developmental transition, J. Psychol, 67; A comparison of children's self-drawings with their representations of other persons, Perceptual Motor Skills, 2/68. Address: Dept. of Psychology, Hunter College. 695 Park Ave, New York, N.Y. 10021.

GELLNER, CHARLES R(AYMOND), b. Baltimore, Md, Dec. 11, 18; m. 45; c. 8. POLITICAL SCIENCE. A.B, Loyola Col.(Md), 40; fel, Georgetown, 40-42, M.A, 42. Reference librn. & res. analyst, West. Europe Affairs, legis. reference serv, Library Cong, Wash, D.C, 46-55, asst. chief & res. specialist, 55-61; chief, reference res. staff, U.S. Arms Control & Disarmament Agency, 61-66; CHIEF FOR. AFFAIRS DIV, LEGIS. REFERENCE SERV, LIBRARY CONG, WASH, D.C, 66- U.S.N, 42-45, Lt. Disarmament; United States foreign policy; Western European affairs. Publ: Disarmament and security in Europe, 56 & Handbook on arms control and related problems in Europe. 59, U.S. Senate Cmt. For. Rels; Palestine problem. Address: 1211 Highland Dr. Silver Spring, Md. 20910.

GELMAN, BERNARD, b. Germany, May 10, 22; nat; m. 49; c. 2. STATISTICS. B.B.A, City Col. New York, 47. Econ. analyst MARINE TERMINALS, PORT OF N.Y. AUTHORITY, 48-55, supv. analyst, 55-58, FINANCIAL ANALYST, 58- U.S.A. 42-45. Statist. Asn. Business statistics; marine economics; commodity studies. Address: 67-40 Booth St, Forest Hills, N.Y. 11375.

GEMMELL, PRES. JAMES, b. Glasgow, Scotland, Oct. 13, 14; nat; m. 40; c. 3. BUSINESS ECONOMICS. B.S, Wyoming, 38; Syracuse, 39; M.S, N.Y. State Col. for Teachers, 43; D.Ed, N.Y. Univ, 46. Prof. econ. & bus. ed. & chmn. div. bus. ed, Pa. State, 45-60; PRES, CLARION STATE COL, 60- Fulbright lectr, Finland, 57-58; dir. Cmn. Econ. Teacher Ed. Consult, Joint Coun. Econ. Ed; U.S. Off. Ed. Business education; economic education. Publ: Principles of economics; Business organization and management; Economics in general education. Address: Clarion State College, Clarion, Pa. 16214.

GEMMILL, PROF. PAUL F(LEMING), b. Muddy Creek Forks, Pa, May 30, 89; m. 20; c. 2. ECONOMICS. A.B, Swarthmore Col, 17, Lippincott fel, 19-20; Ph.D, Pennsylvania, 25. Instr. indust, PENNSYLVANIA, 19-21, asst. prof. ECON, 22-28, prof, 28-59, chmn. grad. group, 38-54, EMER. PROF, 59- C.W.S, U.S.A, 18-19. Econ. Asn. Social provision of medical care. Publ: Fundamentals of economics; Economics of defense mobilization; Britain's search for health. Address: 406 Thayer Rd, Swarthmore, Pa. 19081.

GENDEL, DR. HOWARD L, b. Brooklyn, N.Y, Apr. 24, 40; m. 61; c. 2. PSYCHOLOGY. B.S, Mass. Inst. Tech, 60; U.S. Pub. Health Serv. fel, Western Reserve, 61, M.S, 63, Ph.D.(psychol), 65. Res. acct. exec, BATTEN BARTON DURSTINE & OSBORN, INC, 65-66, ASSOC. RES. DIR, 66- Psychol. Asn. Consumer psychology; work motivation; vocational guidance. Address: 209 Willets Lane. Jericho. N.Y. 11753.

GENDELL, DR. MURRAY, b. New York, N.Y, Feb. 2, 24; m. 58; c. 2. SOCIOLOGY, DEMOGRAPHY. B.A, N.Y. Univ, 50; Ph.D.(sociol), Columbia, 63. Res. asst. ed. statist. res, Teachers Col, Columbia, 55-56; res. asst. labor force res, U.S. Bur. Census, 56; sr. statistician, Dept. Correction, New York, 57-58; lectr. sociol, Columbia, 59-60; City Col. New York, 60-62; mem. div. manpower res, Int. Labor Off, 63-64; assoc. res. sociologist demog, California, Berkeley, 64-66; ASSOC. PROF. SOCIOL, GEORGETOWN, 66- Swedish Govt. grant, 58-59. U.S.A.A.F, 43-47, Sgt. AAAS; Sociol. Asn; Pop. Asn; Latin Am. Studies Asn; Int. Union Sci. Study of Pop. Labor force, particularly female activity and unemployment; social demographic analysis of population trends, especially fertility and changes in marriage and family; population trends and economic development, especially in Latin America. Publ: Swedish working wives: a study of determinants and consequences, Bedminster Press, 63; Fertility and development in Brazil, Demography, 67; The influence of family-building activity on women's economic activity, UN Proc. World Pop. Conf. 1965, 67. Address: 4107 Dakota Court, Alexandria, Va. 22312.

GENDLIN, DR. EUGENE T, b. Vienna, Austria, Dec. 25, 26; nat; m. 54; c. 2. PSYCHOLOGY. M.A, Chicago, 50, Ph.D, 58. Instr, Wilson Jr. Col, 52-56; instr. & res. counsr, counseling center, Chicago, 56-58, res. assoc, 58; dir. res. psychother, 58-61; res. assoc. & fel, psychiat. inst, Wisconsin, 61-63; ASSOC. PROF. PSYCHOL, CHICAGO, 63- Ed, Psychotherapy, Theory, Res. & Practice, Quart. J, 63- Mem. Psychologists Interested in Adv. of Psychother, pres, 61. U.S.N, 44-46. Psychol. Asn; Acad. Psychother; Am. Acad. Arts & Sci. Psychotherapy theory and research; psychophysiology; schizophrenia; creation of new research variables and definitions; philosophy; theory of experiencing. Publ: Experiencing and the creation of meaning; Experiencing: a variable in the process of therapeutic change, Am. J. Psychother; Initiating psychotherapy with unmotivated patients, Psychiat. Quart. Address: Dept. of Psychology, University of Chicago, Chicago, Ill. 60637.

GENDZIER, DR. IRENE, Mod. Mid. East Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GENERALES, PROF. MINOS DEMOSTHENES, b. Piraeus, Greece, Apr. 10, 10; m. 49; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. Univ. Athens, Greece, 35; Cert, Geneva Sch. Int. Rels. & Hague Acad. Int. Law, Netherlands, 36; Dipl, Carnegie Inst. Int. Rels, France, 37. Mem. staff, U.S. Embassy, Spain, 42-44; for. traffic rep, American Airlines, 45-46; instr. polit. sci, Boston, 46-49, acting chmn, div. regional studies, 48-49; asst. prof. POLIT. SCI, SAN DIEGO STATE COL, 49-52, assoc. prof, 52-58, PROF, 58-, DIR, INST. WORLD AFFAIRS, 49-, INST. INT. RELS, 59- Ford Found. grants, Europe, 53-54, U.S, 67. Consult, Bd. Ed, San Diego, 61. Pres, Int. Studies Asn, 60-61, mem. bd, 61-62; San Diego Forum, 59-62; conferee, Wilton Park Conf, Sussex, Eng, 67. Polit. Sci. Asn; Soc. Int. Law. International organization, especially in League of Nations and United Nations; international law; European integration; comparative government. Publ: Developing power centers; Suez: national sovereignty and international waterways. Address: Dept. of Political Science, San Diego State College, San Diego, Calif. 92115.

GENGERELLI, PROF. J(OSEPH) A(NTHONY), Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GENN, DR. GEORGE, b. Vilna, Lithuania, Apr. 6, 06; nat; m. 42; c. 2. PSYCHOLOGY. B.S, City Col. New York, 37, M.S, 38; univ. & Lavanburg Fund fel, N.Y. Univ, 49, Ph.D.(sociol, clin. psychol), 49. Instr. soc. sci, Elmira Reformatory, N.Y, 38-42; clin. psychologist, Mass. State Prison, 42-43; ed. & voc. counsr, Harvard, 45-46; Stevens Inst. Tech, 46-48; asst. prof. psychol, N.J. State Teachers Col.(Trenton), 49-50; PSYCHOLOGIST, 50- Lectr, univ. col, Rutgers, 46-56; prof, Paterson State Col, 60-62; lectr, grad. div, Hunter Col, 62-66. Psychologist, North. N.J. Ment. Hyg. Clins, Greystone Park, 51-55; consult. psychologist, 55-60. U.S.A, 43-45. Fel. AAAS; fel. Psychol. Asn; fel. Sociol. Asn. Criminology; juvenile delinquency. Publ: Juvenile delinquency, In: Encyclopedia criminology; Behavioral and mental development, Pediat; Sampling study of 17,120 mental hygiene clinic patients, Am. J. Psychiat. Address: 28 Westervelt Ave, Tenafly, N.J. 07670.

GENN, MINNA MARDER, b. Boston, Mass, Aug. 16, 17; m. 42; c. 2. PSYCHOLOGY. B.S, Boston, 45; Ed.M, Harvard, 47; N.Y. Univ, 47-51. PSYCHOLOGIST, vet. guid. center, Polytech. Inst. Brooklyn, 46; clin. div, Psychol. Corp, 46-48; pediat. psychiat. clin, Columbia-Presby. Med. Center, 49-55, COL. PHYSICIANS & SURGEONS, COLUMBIA, 57-; PRIVATE PRACTICE, 51- Psychol. Asn. Emotional problems of children; failures in the parent-child relationship; school failures; childhood development; development of prematurely born children. Publ: Co-auth, Behavioral and mental development, Pediatrics & Critique of the studies of primary emotions in neonates, Quart. J. Child Behav. Address: 28 Westervelt Ave, Tenafly, N.J. 07670.

GENOVES, DR. T. SANTIAGO, b. Orense, Spain, Dec. 31, 23; nat. Mex; m. 58. ANTHROPOLOGY. N.Tex. State Teachers Col, 46; Nat. Sch. Anthrop, Mex, 48-52; Brit. Coun. fel, Cambridge, 53-56, Ph.D, 56. Lectr. anthrop, Veracruz, Mex, 56-57; prof. phys. anthrop. & paleoanthrop, Nat. Sch. Anthrop, 56-58; SECY. ANTHROP. DOCTORATE SEM, NAT. UNIV. MEXICO, 58-, RES. FEL, 58- In-charge lab. phys. anthrop, Nat. Mus. Anthrop, 56-58. Ed, Yearbook Phys. Anthrop. AAAS; Am. Anthrop. Asn; Asn. Phys. Anthrop; Mex. Anthrop. Soc; Acad. Sci. Res, Mex.(prize, 61; secy, 61-62); Mex. Soc. Natural Hist; Mex. Soc. Hist. Med; Royal Anthrop. Inst. Gt. Brit. & Ireland; Italian Soc. Anthrop. & Ethnol. Physical anthropology, particularly paleoanthropology and sex differences in bones; age and stature determination through bones; American origins; evolution in primates; some problems in the physical anthropological study of the peopling of America; proportionality of the long bones and their relation to stature among Mesoamericans. Publ: L'estimation des differences sexuelles dans l'os coxal: differences metriques et differences morphologiques, Bull. Soc. d'Anthrop. de Paris; Revaluation of age, stature and sex of the Tepexpan Remains, Mexico, Am. J. Phys. Anthrop; El oreopithecus en la evolucion de los hominidos. Address: Camelia 8-E, Mexico D.F.

GENOVESE, PROF. FRANK C(HARLES), b. Toronto, Ont, Feb. 16, 21; m. 44; c. 5. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Toronto, 42, M.A, 46; univ. fel, Wisconsin, 46-47, Caterpillar Tractor Co. fel, 50, Ph.D, 53. Asst. ECON, Toronto, 45-46; Wisconsin, 47-48, instr, 50-53; assoc. prof, Southwest. La. Inst, 48-50; asst. prof, Antioch Col, 53-55; assoc. prof, BABSON INST, 55-62, PROF, 62-, DEAN CONTINUING ED, 68-, dir. eve. prog, 61-65, assoc. dean grad. sch, 65-68. Res. fels, N.Y. Univ, 55, Marine Midland Grace, 65 & First Nat. Bank Boston, 68; res. assoc, U.S. Dept. Agr, 56-59; vis. lectr, Wellesley Col, 61; summers, vis. lectr, Goodbody & Co, 61, vis. prof, grad. sch. bus, N.Y. Univ, 64 & 65, faculty mem, grad. sch. savings bankers, Brown, 66 & 67. Ord.C, Can. Army, 44-45. Econ. Asn; Finance Asn. Application of economic thinking to real problems; managerial economics; theory corporate profits; money markets. Publ: Introduction to Lombard Street; Methodology of the price support program for wheat, South. Econ. J; co-auth, Economic effects of U.S. grades for beef. Address: 162 Washington St, Wellesley, Mass. 02181.

GENS, DR. GEORGE W(ILLIAM), Speech Path, see 11th ed, Phys. & Biol. Vols.

GENSEMER, DR. IRA B(ENNETT), b. Bloomsburg, Pa, Nov. 24, 35; m. 61; c. 1. SPECIAL EDUCATION. B.S. Bloomsburg State Col, 61; Ed.M, Temple, 64, Ed.D.(psychol), 67. Speech clinician, Hanover Schs, Pa, 61-62; Del. County Schs, 62-63; asst. psychol, Temple, 63-65; assoc. prof, East Stroudsburg State Col, 65-67; spec. ed, Bloomsburg State Col, 67-68; CHIEF PSYCHOLOGIST, GEISINGER MED. CENTER, 68- Consult, Peace Corps, 66. U.S.M.C, 55-58, Sgt. Learning disorders; use of psychological evaluations and consultants; creative thinking. Address: Geisinger Medical Center, Daville, Pa. 17821.

GENSTEIN, EDGAR S, Econ, Finance, see 10th ed, Soc. & Behav. Vols.

GENTRY, PROF. DWIGHT L, b. Roxboro, N.C, Nov. 16, 19; m. 46; c. 2. BUSINESS ADMINISTRATION. A.B, Elon Col, 41; M.B.A, Northwestern, 47; Ph.D.(bus), Illinois, 52. Trainee commun, West. Union Tel. Co, 41; asst. prof. BUS. ADMIN, Miami (Fla), 47-49; instr, Illinois, 49-51; assoc. prof, Wake Forest Col, 51-54; MARYLAND, 54-58, PROF, 58-, ASST. DEAN COL. BUS. & PUB. ADMIN, 62- Lectr, Sch. Consumer Banking, 55. Mem. mkt.

adv. bd, Kal, Ehrlich & Merrick, Advert. Agency, 60-64; adv. coun, Small Bus. Admin, D.C, 60-66; mkt. consult, Wash. Gas Light Co, 60- U.S.A, 41-46, Capt. Mkt. Asn; Acad. Advert. Selection processes in personnel management; changing patterns of marketing behavior; consumer motivation. Publ: Co-auth, Advertising, copy layout and typography, 58 & Elements of business enterprise, 61, 2nd ed, 66; Fundamentals of managerial marketing, Heath, 65. Address: College of Business and Public Administration, University of Maryland, College Park, Md. 20742.

GENTRY, DR. GEORGE M, b. Bartlesville, Okla, July 6, 24; div; c. 4. PSYCHOLOGY. B.A, Oklahoma, 49, Will Rogers fel, 49-51; fel, Mich. State, 57-58, Ph.D, 61. Psychologist, child guid. center, Kans, 51-54; clin. psychologist, adult ment. health clin, Mich, 54-55; psychologist, pub. schs, 55-56; counsr, counseling center, Mich. State, 56-57; psychologist, Ingham County Bd. Ed, 57-58; sch. psychologist, Jackson Pub. Schs, Mich, 58-64, dir. pupil serv, 64-66; CONSULT. PSYCHOLOGIST, HUMBER, MUNDIE & McCLARY, 66- Instr, Mich. State, 59- U.S.A, 43-46. Psychol. Asn. Behavioral and psychological states associated with varying time orientations; group processes. Address: Humber, Mundie & McClary, 1580 Sherman Ave, Evanston, Ill. 60201.

GENTRY, PROF. J(OHN) R(OBERT), Psychol, see 10th ed, Soc. & Behav. Vols.

GENUNG, ALBERT B(ENJAMIN), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

GEOGHAN, WILLIAM C, b. Jersey City, N.J, Dec. 31, 33; m. 57; c. 3. BUSINESS ADMINISTRATION. B.B.A, City Col. New York, 55, B.S.Ed, 56, M.S.Ed, 57; N.Y. Univ, 57-58. Asst. data processing mgr, Smith, Barney & Co, Inc, 57-59; sr. instr. tech. ed, UNIVAC, Sperry-Rand, 59-61, coordinator training, Nat. Acct. Group, 61-62; corp. dir. critical path. methodology, info. processing tech. div, C-E-I-R, Inc, 62-64, mgr. tech. ed. serv, mkt. info. serv. div, 64, dir. curriculum, inst. adv, tech, 64-66; 2ND V.PRES. & MGR. EQUIP. RES. & DEVELOP, CHASE MANHATTAN BANK, 66- John Paul Smith mem. award, 54; John Henry Newman award, 54; Insignium award, 55. Asn. Comput. Mach; Systs. & Procedures Asn. Computer systems and programming education; business administration and management sciences; development and implementation scheduling techniques in production and project management; computer hardware and software research and development. Publ: Economic distribution of limited resources, Energy Int. & Elec. West, 63; PERT/CPM, In: Digital computer user's handbook, McGraw, 66. Address: 68 Bennett Ave, Huntington Station, N.Y. 11746.

GEOGHEGAN, SISTER BARBARA, S.C, b. New York, N.Y, June 11, 02. EDUCATIONAL PSYCHOLOGY. A.B, Col. of Mt. St. Joseph, 25; M.A, Loyola (Ill), 39; Ph.D, Fordham, 50; Notre Dame, 31-32; John Carroll, 30-34. Prin, St. Sebastian High Sch, Ill, 38-41; Little Flower High Sch, Mich, 41-47; dir. studies, Sisters of Charity, 51-59; PROF. SEC. ED. & CHILD PSYCHOL, COL. OF MT. ST. JOSEPH, 60- Adj. assoc. prof, Fordham, 57- Consult, res. prog, Teaching French in Elem. Grades, 66-69. Ed. Res. Asn; Psychol. Asn; Personnel & Guid. Asn. Personality and vocational choice; personality evaluation; developmental psychology; interpersonal relations in classroom; changes in attitudes of student teachers. Publ: Co-auth, Developmental psychology; ed, Insight series; co-auth, Growing child in contemporary society, Bruce, 68. Address: College of Mt. St. Joseph-on-the-Ohio, Mt. St. Joseph, Ohio 45051.

GEORGE, DR. ALEXANDER L(AWRENCE), b. Chicago, Ill, May 31, 20; m. 48; c. 1. POLITICAL SCIENCE. M.A, Chicago, 41, Ph.D, 58; fel, Library of Cong, 42; Center Adv. Study Behav. Sci, 52-56. Analyst, for. broadcast intel. serv, Fed. Commun. Cmn, 42-44; polit. analyst, Off. Strategic Serv, 44-45; dep. chief res. br, info. control div, Off. Mil. Govt. for Germany, 45-48; SR. STAFF MEM, SOC. SCI. DEPT, RAND CORP, 48-, head dept, 61-63. Lectr, Chicago, 50; prof. lectr, American Univ, 52-56; vis. prof, Stanford, 67-68. Polit. Sci. Asn; Asn. Pub. Opinion Res. Political communication, psychology and leadership; foreign policy; military affairs. Publ: Propaganda analysis: a study of inferences made from Nazi propaganda in World War II; co-auth, Woodrow Wilson and Colonel House: a personality study; auth, The Chinese Communist Army in action, Columbia Univ, 67. Address: Rand Corp, 1700 Main St, Santa Monica, Calif. 90406.

GEORGE, DR. BARBARA CRUTCHFIELD, b. Farmville, Va, May 23, 35; m. 65. LAW. B.A, Bennett Col.(N.C), 54; J.D, Iowa, 57. Instr. bus. law, Hawaii, 57-59; legal asst, Calif. State Corp. Cmn, 59-60; adjudicator, U.S. Vet. Admin, 60-61; ASSOC. PROF. BUS. LAW, CALIF. STATE COL. LONG BEACH, 61- Attorney, 63- Ed, Bus. Law Forum, 67-68. Bar Asn; Bus. Law Asn; Fed. Bar Asn. Publ: The crises in the elementary business law course under the Uniform Commercial Code, 67 & Utilizing the appellate procedure in reviewing exam grades, 67, Bus. Law Forum. Address: Dept. of Business Law, California State College at Long Beach, 6101 Seventh St, Long Beach, Calif. 90801.

GEORGE, PROF. CLAUDE S(WANSON), JR, b. Va, June 4, 20. INDUSTRIAL ADMINISTRATION. B.S, North Carolina, 43, M.S, 51; Ph.D.(indust. mgt), Iowa, 53. Assoc. prof. mgt, Texas, 53-54; PROF. INDUST. MGT, NORTH CAROLINA, 54-, ASSOC. DEAN, 62-, asst. dean, 54-62. Ford fel, 55. U.S.A, 43-46. Soc. Adv. Mgt; Inst. Mgt. Organization and management. Publ: Management in industry; History of management thought, Prentice-Hall, spring 68; Managements responsibility to the worker, J. Personnel Admin. & Indust. Rels. Address: School of Business Administration, University of North Carolina, Chapel Hill, N.C. 27514.

GEORGE, DR. CLAY E, b. Phoenix, Ariz, June 1, 26; m. 58; c. 2. THEORETICAL PSYCHOLOGY. B.S, Arizona State, 49; M.A, Arizona, 53; Ph.D.(psychol), Houston, 62. Instr. psychol, Agr. & Mech. Col, Tex, 53-56, dir. remediation & improv. servs. & proj. supvr, res. found, 55-56; lectr. psychol, Houston, 56-58; asst. prof, Arizona State, 58-61; sr. scientist, HumRRO, 61-67; ASSOC. PROF. PSYCHOL, TEX. TECH. COL, 67- Res. psychologist, Agr. & Mech. Col. Tex. Res. Found, 57-61. U.S.M.C, 44-46, 50-52. Psychol. Asn. Application of mathematical adaptation level theory to the scaling of personality and social variables; social structure and function. Publ: Some determinants of small group effectiveness, HumRRO, 62. Address: Dept. of Psychology, Texas Technological College, Lubbock, Tex. 79409.

GEORGE, EDWIN B(LACK), Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

GEORGE, PROF. R(OBERT) WILFRED, b. Xenia, Ohio, Jan. 16, 00; m. 25; c. 4. PSYCHOLOGY. A.B, Geneva Col, 21; M.A, Columbia, 25; Angier B. Duke Mem. fel, Duke, 30-32, Ph.D.(psychol), 32. Teacher, Am. Acad, Cyprus, 21-24; PROF. PSYCHOL, TARKIO COL, 25-, acad. dean, 58-62. U.S.A, 17-19. AAAS; Psychol. Asn; Parapsychol. Asn. Personality; extrasensory perception; psychosomatic aspects of cancer—objective tests which may be related to the problem. Address: 202 N. Tenth St, Tarkio, Mo. 64491.

GEORGE, PROF. ROY E(DWIN), b. Liverpool, Eng, Feb. 17, 23; m. 49; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.Sc, London, 49, Ph.D.(econ), 67; M.A, Bristol, 56. Statistician, S.West. Gas Bd, Eng, 49-51, dep. personnel mgr, 51-56; area staff mgr, Nat. Coal Gas Bd, 56-60; asst. prof. econ, St. Mary's (N.S), 60-63; assoc. prof. COMMERCE, DALHOUSIE, 63-65, PROF, 65- Vis. lectr, Bristol Col. Commerce, Eng, 50; Burnley Tech. Col, 57. Consult, Can. Depts. Labour, Manpower & Immigration, N.S. Dept. Trade & Indust. & N.S. Med. Care Cmn, 61-; Can. Nat. Rwy. & Int. Longshoremen's Asn, 65- R.A.F, 41-46, Flight Sgt. Can. Econ. Asn. Relationship between economic analysis and business practice; location of industry. Publ: Coûts de production dans les localisations distinctes, Inst. Sci. Economique Appliquée, Paris, 66; Redundancies at North Sydney Ferry Terminal, Can. Indust. Rels. Res. Inst, 67. Address: Dept. of Commerce, Dalhousie University, Halifax, N.S, Can.

GEORGESCU-ROEGEN, PROF. NICHOLAS, b. Constanza, Rumania, Feb. 4, 06; nat; m. 34. ECONOMICS. Lic, Bucharest, Rumania, 26; Ph.D.(statist), Sorbonne, 30. Fel, univ. col, London, 31-32; prof. statist, sch. statist, actuarial sci. & calculus, Bucharest, Rumania, 32-47; res. assoc. & lectr, econ. proj, Harvard, 48-49; prof. ECON. THEORY & STATIST, VANDERBILT, 49-67, HARVEY BRANSCOMB DISTINGUISHED PROF, 67- Fel, Harvard, 34-35; Rockefeller fel, 34-36; Guggenheim & Fulbright fels, 57-58; Rockefeller prof, Japan & S.E. Asia, 62-63; summer Ford prof, Univ. Sao Paulo, 66. Ford Found. consult. & lectr, Brazil, 64; Ford Found. consult, Rio de Janeiro, 66-67. Rumanian del, Peaceful Change Conf, League of Nations, 38-39; secy. gen, Rumanian Armistice Cmn, 44-45. Fel, Rumanian Acad. Moral Sci. Econ. Asn; fel. Economet. Soc; fel. Int. Inst. Sociol. Statistics; economic theory; linear systems; economic development; theoretical statistics. Publ: Analytical economics: issues and problems, Harvard, 66; Choice, expectations and measurability, Quart. J. Econ; Economic theory and agrarian economics, Oxford Econ. Papers. Address: Dept. of Economics, Vanderbilt University, Nashville, Tenn. 37203.

GEORGEVICH, PROF. MIODRAG, b. Belgrade, Yugoslavia, May 6, 22; nat; m. 50; c. 2. INTERNATIONAL POLITICS. M.A, 52; Michigan, 56-57. ASSOC. PROF. POLIT. SCI. & HEAD DEPT, NORTHERN MICHIGAN, 58- Yugoslav Royal Army, 41-46, 2nd Lt. Polit. Sci. Asn. International organization; foreign policies of South-Eastern Europe; foreign policy of Yugoslavia. Address: 2 Marquette Dr, Marquette, Mich. 49855.

GEORGOPOULOS, DR. BASIL S, b. Greece, Oct. 15, 26; nat; m. 55; c. 2. SOCIAL PSYCHOLOGY. B.A, Bowling Green State, 52; fel, California, Los Angeles, 52-53, M.A, 53; Rackham fel, Michigan, 53-54, Ph.D.(soc. psychol), 57. Asst. study dir, INST. SOC. RES, MICHIGAN, 54-56, study dir, 56-61, sr. study dir, 61-66, PROG. DIR, 66-, ASSOC. PROF. PSYCHOL, UNIV, 64-, lectr. psychol. & sociol, 59-61, asst. prof. psychol, 61-64. Mem. bd. dirs, Am. Nurses' Found, 67- Hamilton Hosp. Adminstr. book award, Am. Col. Hosp. Adminstr, 64. Greek Navy, 47-48. AAAS; Psychol. Asn; Sociol. Asn; Acad. Polit. & Soc. Sci; N.Y. Acad. Sci. Social psychology of organizations; complex organizations as problem-solving systems; human behavior and human relations in large-scale organizations; individual performance and organizational effectiveness; hospital organization and patient care. Publ: Normative structure variables and organizational behavior: a comparative study, Human Rels, 65; The hospital system and nursing: some basic problems and issues, Nursing Forum, 66; co-auth, The American general hospital as a complex social system, Health Serv. Res, 67. Address: Institute for Social Research, University of Michigan, Ann Arbor, Mich. 48106.

GERALD, PROF. J. EDWARD, b. Evant, Tex, May 6, 06; m. 30; c. 2. JOURNALISM, MASS COMMUNICATION. B.A, W.Tex. State Teachers Col, 27; B.J, Missouri, 28, M.A, 32; Ph.D.(polit. sci), Minnesota, 46. Writer & editor, cor. staff, United Press Asns, 28; ed. & mgr, Canyon News, Tex, 29; instr. JOURNALISM, Missouri, Columbia, 29-30, asst. prof, 30-34, assoc. prof, 34-46, acting dean, 41-42; PROF, MINNESOTA, MINNEAPOLIS, 46- Guggenheim fel, 53-54; vis. prof, Texas, Austin, 66. Copy ed, St. Louis Star-Times, 35-36; mgr, Mo. Press Asn, 36-41. Consult, world affairs sec. schs. prog, Minneapolis Star, 49-51; Brookings Inst, 64-66. Asn. Ed. Journalism (v.pres, 51, pres, 52). Government and mass communication; the press as a social institution; economics of the mass media. Publ: The press and the constitution, 48, British press under government economic controls, 56 & Social responsibility of the press, 63, Univ. Minnesota. Address: 107 Murphy Hall, University of Minnesota, Minneapolis, Minn. 55455.

GERALD, DR. JOHN O('NEIL), b. Loris, S.C, Oct. 23, 23; m. 50; c. 2. AGRICULTURAL ECONOMICS, MARKETING. B.S, Clemson Col, 48; Ph.D.(econ), N.C. State, 68. Agr. economist, bur. agr. econ, U.S. DEPT. AGR, 48-54, agr. mkt. serv, 54-61, ECON. RES. SERV, 61-65, leader transportation econ. res. group, 65-66, ASST. CHIEF COMPETITION & PRICING BR, 66- Secy, West. Agr. Econ. Res. Coun, 60-65. Cert. of Merit, Econ. Res. Serv, U.S. Dept. Agr, 64. Agr. Econ. Asn; Statist. Asn. Marketing of poultry and poultry products; uses of marketing information and adequacy of marketing information for farm products; effectiveness and improvements of pricing and allocation mechanisms and practices. Publ: Pricing eggs at wholesale in New York City; Uses of marketing information by farmers in Michigan;

co-auth, The freight car situation and prospects, Econ. Res. Serv, U.S. Dept. Agr, 11/66. Address: Marketing Economics Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

GERALL, PROF. ARNOLD A(BRAHAM), b. New Haven, Conn, Mar. 14, 27; m. 59. PSYCHOLOGY. B.S, Michigan, 49; M.A, Connecticut, 50; Ph.D. (psychol), Iowa, 51. Asst. prof. & res. assoc. psychol, Rochester, 51-56; res. assoc. anat, Kansas, 56-61; assoc. prof. PSYCHOL, TULANE, 61-64, PROF, 64- Res. consult, Menninger Found, 59-61. U.S.N, 45-46. AAAS; Psychol. Asn. Learning; emotion; motivation; physiology; human engineering. Publ: Co-auth, Effects of prenatal exogenous androgen on the sexual behavior of the female albino rat, 66 & auth, Hormonal factors influencing masculine behavior of female guinea pigs, 66, J. Comp. Physiol. Psychol; Effects of early postnatal androgen and estrogen injections on estrous activity cycles and mating behavior of rats, Anat. Record, 67. Address: Dept. of Psychology, Tulane University, New Orleans, La. 70118.

GERARD, DR. EUGENE OLIVER, b. St. Louis, Mo, May 21, 30. PSYCHOLOGY. A.B, St. Louis, 54, M.A, 58; Ph.D.(psychol), Minnesota, 67. Instr, high sch, Colo, 55-57; ASST. PROF. PSYCHOL, ST. LOUIS, 67- Psychol. Asn. Work efficiency; attitude change; urban social problems; scientific methodology; history of science. Publ: Subliminal stimulation in problem-solving, Am. J. Psychol, 3/60; co-auth, Beyond Parkinson's law: effect of excess time on subsequent performance, J. Personality & Soc. Psychol, 3/66; auth, Medieval psychology: dogmatic Aristotelianism or observational empiricism?, J. Hist. Behav. Sci, 10/66. Address: Dept. of Psychology, St. Louis University, St. Louis, Mo. 63103.

GERARD, PROF. H(AROLD) B(ENJAMIN), b. Brooklyn, N.Y, Aug. 25, 23. PSYCHOLOGY. B.A, Brooklyn Col, 47; Ph.D.(soc. psychol), Michigan, 52. Res. asst. prof. psychol, res. center human rel, N.Y. Univ, 52-54; asst. prof, Buffalo, 54-56; Fulbright res. scholar, Netherlands, 55-56; mem. tech. staff, Bell Tel. Labs, 56-62; PROF. PSYCHOL, CALIFORNIA, RIVERSIDE, 62- U.S. Pub. Health Serv. fel, Center Adv. Study Behav. Sci, 63-64; Consult, U.S. Pub. Health Serv, 65- U.S.A, 42-45. Psychol. Asn. Small group process; personality development and change; social organization theory; school desegregation. Publ: Foundations of social psychology, Wiley, 67; Anchorage of opinions in face-to-face groups, Human Rel; Some factors affecting an individual's estimate of his probable success in a group situation, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, University of California, Riverside, Calif. 92502.

GERARD, DR. ROY, b. Brooklyn, N.Y, Mar. 3, 20; m. 51; c. 4. ECONOMICS. B.A, Brooklyn Col, 40; M.A, American Univ, 49; Ph.D, New Sch. Soc. Res, 57. Bus. ed, Res. Inst. Am, N.Y, 51-53; sr. economist, div. employ, State Dept. Labor, 54-59; chief div. res, Syracuse Dept. City Planning, 59-61; consult, State Dept. Labor, N.Y, 61-63; PRES. ECON. CONSULT. ORGN, INC, 63- Instr, Syracuse, 55-61; assoc. prof. & dir. bur. econ. res, LeMoyne Col.(N.Y), 61-67; lectr, dept. city & regional planning, Cornell, 64-Sig.C, U.S.A, 43-45. Econ. Asn; Regional Sci. Asn; Inst. Planners; Soc. Planning Off. Recreation and leisure time studies; renewal and redevelopment-economic analysis of land uses; regional demographic and economic studies. Publ: Co-auth, Community renewal, Stamford, Conn, U.S. Dept. Housing & Urban Develop, 63-; Recreation-St. Lawrence Sub-region, 64-, Lake Champlain/Lake George, 67-, State New York. Address: Economic Consultants Organization, Inc, 310 Midtown Plaza, Syracuse, N.Y. 13210.

GERATHEWOHL, DR. SIEGFRIED JOHANNES, Psychol, Physiol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GERBER, ABRAHAM, b. New York, N.Y, Dec. 19, 25; m. 48; wid; m. 67; c. 4. ECONOMICS. A.B, Columbia, 48, A.M, 51; scholar, New Sch. Soc. Res. Economist, U.S. Bur. Mines, 51-53; Am. Elec. Power Serv. Corp, 53-57, admin. asst. to pres, 57-61, secy, syst. develop. cmt, 61-67; SR. CONSULT, NAT. ECON. RES. ASSOCS, 67- Consult, President's Cabinet Cmt. Energy Resources & Policies, 53-54; off. coal res, U.S. Dept. Interior, 61-; Interdept. Energy Study, 66. Secy. subcmt. energy & raw mat. resources, Engr. Joint Coun. Eng. Res. Cmt, 61-62; mem. fuels cmt, Fed. Power Cmn, Nat. Power Surv, 62-64. U.S.A.A.F, 44-45. Econ. Asn; Nuclear Soc; Atomic Indust. Forum. Energy resources; utility regulation and economics; economics of nuclear power. Publ: Co-auth, The outlook for uranium, E. Cent. Nuclear Group, 7/65; auth, The impact of air pollution control on the economics of energy supply, Am. Power Conf, 65; co-auth, The Social-economic evaluation of water resource projects, Int. Conf. Water for Peace, 67. Address: National Economic Research Associates, 80 Broad St, New York, N.Y. 10005.

GERBER, DR. BARBARA W, b. Buffalo, N.Y, May 28, 34; m. 64; c. 3. COUNSELING, EDUCATIONAL PSYCHOLOGY. A.B, Syracuse, 55, M.S, 59, Ed.D. (counseling), 64. Teacher, pub. schs, N.Y, 55-57; guid. counsr, 59-61; lectr. guid. & counseling, Syracuse, 63-64, asst. prof, 64-65; asst. prof. psychol, STATE UNIV. N.Y. COL. OSWEGO, 65-67, ASSOC. PROF. PSYCHOL. & COUNSR. ED, 67- Lectr, Nat. Defense Ed. Act Inst, Syracuse, 65-66. Psychol. Asn; Personnel & Guid. Asn; Int. Soc. Gen. Semantics. Creativity and its manifestations; psychological health and components plus how to affect it through individual and group interactions; school psychology. Publ: Co-auth, Survey of pupil personnel services in Syracuse, Syracuse Bd. Ed, 65; auth, Creativity: a frame of reference for teachers, N.Y. State Ed, 11/60. Address: Dept. of Psychology, State University of New York College at Oswego, Oswego, N.Y. 13126.

GERBER, PROF. ISRAEL J(OSHUA), b. New York, N.Y, July 30, 18; m. 43; c. 3. PSYCHOLOGY. B.A, Yeshiva, 39; M.S, City Col. New York, 40; Ph.D, Boston, 50. RABBI, Beth Jacob Synagogue, Plymouth, Mass, 43-44; Congregation Agudath Achim, Fitchburg, Mass, 44-51; Temple Emanu-El, Dothan, Ala, 53-59; TEMPLE BETH EL, 59-; PROF. RELIG. & PSYCHOL, LIVINGSTONE COL, 60- Chaplain, Boston Psychopath. Hosp, 48-51. Consult, Nat. Jewish Welfare Bd, 47-49. Chmn. relig. & psychiat, Cent. Conf. Am. Rabbis, 58-61; mem. bd. governors, Inst. Pastoral Care, 49. U.S.A, 51-52, 1st Lt. Psychol. Asn; Acad. Relig. & Ment. Health; Soc. Sci. Study Relig. Synthesis of teachings of religion and psychiatry. Publ: Religious literature for the physically ill, Reconstructionist, 1/50; Immortal rebels, David, 63; God is not enough? Christian Century, 5/67. Address: 5727 Riviere Dr, Charlotte, N.C. 28211.

GERBER, DR. SANFORD E(DWIN), Speech, Ling, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

GERBER, DR. STERLING K, b. Payson, Utah, May 31, 38; m. 58; c. 4. EDUCATIONAL PSYCHOLOGY. B.S, Utah, 60, M.S, 61, Ph.D, 66. Dir. counseling & testing, Dixie Jr. Col, 61-63; dir. scholastic standards, Weber State Col, 63-66; ASST. PROF. PSYCHOL, CHICO STATE COL, 66- Summers, staff asst, Nat. Defense Ed. Act Counseling Inst, Univ. Utah, 63, staff mem, CAUSE II, Econ. Opportunity Act, 65. Col. Personnel Asn; Psychol. Asn; Personnel & Guid. Asn. Student personnel programs and college environment. Publ: A new look at student personnel in Utah: placement, financial aids, and health services, Utah Col. Personnel Bull, 65; Four approaches to freshmen orientation, Improving Col. & Univ. Teaching, (in press). Address: Dept. of Psychology, Chico State College, Chico, Calif. 95926.

GERBERICH, PROF. J(OSEPH) RAYMOND, b. Vinton, Iowa, Dec. 2, 00; m. 42. EDUCATIONAL PSYCHOLOGY. B.S, Iowa, 22, M.A, 28, Ph.D, 29. Assoc. prof. ed, Arkansas, 29-35; asst. to dir. ed. div, Works Progress Admin, 35-36; asst. dir. proj. res, U.S. Off. Ed, 36-37; asst. prof. ed, Connecticut, 37-40, assoc. prof, 40-47, prof, 47-62, dir. bur. ed. res. & serv, 39-62, coordinator testing, div. student personnel, 40-62; exec. officer, Am. Ed. Res. Asn, Nat. Ed. Asn, 62-64; reader, small-grants res. proposals, U.S. Off. Ed, 65; PROF. ED. PSYCHOL. & ACTING HEAD DEPT, ARIZONA, 67- Vis. prof, Maryland, 62-67. Ed. Res. Asn; Nat. Coun. Measurement in Ed.(pres, 52-53); Psychol. Asn. Educational measurement, evaluation and psychology; statistical research methods in education. Publ: Specimen objective test items; co-auth, Measurement and evaluation in the modern school & Measurement and evaluation in the secondary school. Address: Dept. of Educational Psychology, College of Education, University of Arizona, Tucson, Ariz. 85721.

GERBNER, DEAN GEORGE, b. Budapest, Hungary, Aug. 8, 19; U.S. citizen; m. 46; c. 2. COMMUNICATIONS. A.B, California, Berkeley, 42; M.S, Southern California, 51, Ph.D.(commun. in ed), 55. Instr. journalism, John Muir Col, 48-51; mass. commun, El Camino Col, 52-56; res. asst. prof. commun, inst. commun. res, Illinois, 56-58, res. assoc. prof, 58-61; PROF. COMMUN. & DEAN ANNENBERG SCH. COMMUN, PENNSYLVANIA, 64- Proj. dir, U.S. Off. Ed. coop. res. grant, 60-64; proj. dir, Nat. Sci. Found. res. grant, 64-68. A.U.S, 43-45, 1st Lt. Acad. Polit. & Soc. Sci; Soc. Study Commun; Asn. Ed. in Journalism. Social aspects of mass communications; comparative study of popular cultural patterns. Publ: The individual in a mass culture, Saturday Rev, 6/60, The Exec, 60 & Nat. Elem. Prin, 2/61; An institutional approach to mass communications research, In: Communication: theory and research, C.C. Thomas, 66; Mass communication and human communication theory, In: Human communication theory: original essays, Holt, 67. Address: Annenberg School of Communications, University of Pennsylvania, Philadelphia, Pa. 19104.

GERDES, DR. JOHN W, b. Burlington, Iowa, Oct. 8, 22; m. c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Antioch Col, 49; M.S, Yale, 51; Ph.D.(polit. sci), Pittsburgh, 67. Admin. asst, Denver Dept. Health & Hosps, 51-52; United Mine Workers Asn. Welfare & Retirement Fund, 52-54; asst. hosp. admin, med. center, Univ. Arkansas, 54-59; Denver Dept. Health & Hosps, 59-60; asst. prof. med. & hosp. admin, grad. sch. pub. health, Pittsburgh, 60-67, assoc. prof, 68; ASSOC. DIR, MT. STATES REGIONAL MED. PROG, WEST. INTERSTATE CMN. HIGHER ED, 68- U.S.A.A.F, 43-46. Pub. Health Asn; Hosp. Asn; Polit. Sci. Asn. Affiliation relationships between medical schools and hospitals; relationship of health interest groups and state government. Publ: Co-auth, Medical schools and hospitals, Asn. Am. Med. Cols, 65. Address: Mountain States Regional Medical Program, Western Interstate Commission for Higher Education, 525 W. Jefferson St, Boise, Idaho 83702.

GERDES, PROF. VICTOR, b. Hallettsville, Tex. ECONOMICS. B.S, Tex. Tech. Col, 47; M.S, Wisconsin, 50, Ph.D, 51, LL.B, 53. Assoc. prof, Georgia, 51-53; asst. prof. econ, Beloit Col, 53; secy. & mgr, dept. res, Asn. Casualty & Surety Co, 54-57; PROF. econ, acct. & finance, N.Y. Univ, 57-67; FINANCE, RIDER COL, 68- Dean sch. bus. & soc. studies, Lagos, 64-65; prof, tech. inst, Northwestern, 65-68; Khartoum, 65-67. Econ. Asn; Finance Asn; African Studies Asn; Royal African Soc. Social and economic change in West, Central and East Africa. Publ: Insurance worker in the labor movement, 64, Social security in developing African countries, 65 & Social security and family income requirements, 66, J. Risk & Ins. Address: 44 Partridge Lane, New Shrewsbury, N.J. 07724.

GERDINE, DR. PHILIP V(AN HORN), b. Port Chester, N.Y, Apr. 14, 39; m. 64. INDUSTRIAL PSYCHOLOGY, CONSUMER BEHAVIOR. B.A, Haverford Col, 60, Southern Methodist, 59-60; A.M, Boston, 61, Ph.D.(psychol), 64. Clin. psychologist, pub. schs, Dallas, 61; Vet. Admin. Hosp, Brockton, 61-62; Mass. Mem. Hosps, 62-63; pub. schs, Lexington, 63; S.Shore Ment. Health Center, 63-64; res. asst. mkt, grad. sch. bus. admin, Harvard, 64-65; mgt. consult, Boston Safe Deposit & Trust Co, 65-66; V.PRES. & CONTROLLER, COLE & ASSOCS, INC, 66- Psychol. Asn; Mkt. Asn; Statist. Asn; Soc. Proj. Tech. & Personality Assessment. Growth problems of the family-held business; problems of psychophysiological skin reactions. Publ: Co-auth, Comparison of social desirability effects on the EPPS in relation to ratings of compatibility or incompatibility of the needs, 64 & Social desirability effects in the EPPS, 64, Psychol. Reports; auth, Problems of the family-owned business, New Englander, 6/67. Address: Cole & Associates, Inc, 10 Post Office Square, Boston, Mass. 02109.

GERE, DR. EDWIN A(NDRUS), JR, b. Elmira, N.Y, Nov. 7, 22; m. 45; c. 5. GOVERNMENT. B.A, Alfred, 48; Georgetown, 51; M.A,Pa. State, 56; fel, State Univ. N.Y, 63-64, Ph.D.(polit. sci), 68. Instr. govt, inst. pub. serv, Connecticut, 55-56, acting dir, inst, 56-57; ASST. PROF. GOVT, MASSACHUSETTS, 57-, ASST. DIR. BUR. GOVT. RES, 60- Lectr, Holyoke Jr. Col, 60-Consult, 57- U.S.A.F, 43-46, 48-53. Maj. Polit. Sci. Asn; Soc. Pub. Admin.

American government and political thought; public administration; regionalism. Publ: Co-auth, Some notes on regionalism, Univ. Massachusetts, 66; auth, Regional coordination for New England through interstate compacts, Forum, 67; Some aspects of Massachusetts public finance. Address: Juggler Meadow Rd, R.F.D. 3, Amherst, Mass. 01002.

GEREN, PRES. PAUL F(RANCIS), b. El Dorado, Ark, Dec. 5, 13; m. 46; c. 3. ECONOMICS, POLITICAL SCIENCE. B.A, Baylor, 36; M.A, La. State, 37; M.A, Harvard, 40; Ph.D.(econ), 41; LL.D, St. Mary's (Tex), 62. Lectr. econ, Forman Christian Col, India, 42-43; prof, Berea Col, 46-47; for. serv. officer, v.consul, Bombay, U.S. Dept. State, 47-50, 1st secy. & econ. officer, Damascus, 51-53, counsr. & dep. chief of mission, Amman, 54-55, desk officer for Egypt & Sudan, D.C, 55-56; exec. v.pres, Baylor, 56-59; exec. dir, Dallas Coun. World Affairs, Tex, 59-61; dep. dir, Peace Corps, 61-62; consul-gen, Fedn. Rhodesia & Nyasaland, 62-64; dir. off. telecommun. & maritime affairs, U.S. Dept. State, 64-65; counsr. econ. affairs, U.S. Embassy, Tripoli, Libya, 65-67; PRES, STETSON, 67- Spec. prof, Southern Methodist, 59-61. U.S.A, 43-46, 1st Lt. Soc. Int. Develop. Problems of international relations and international development. Publ: Burma dairy; New voices, old worlds; Freedom versus Communism, a primer of contrasts. Address: Stetson University, Deland, Fla. 32720.

GERGEN, DR. JOHN A, Neurophysiol, Neurol, see 11th ed, Phys. & Biol. Vols.

GERGEN, DR. KENNETH JAY, b. Rochester, N.Y, Dec. 9, 34; m. 57; c. 2. PSYCHOLOGY. B.A, Yale, 57; Ph.D.(psychol), Duke, 63. Res. assoc. psychol, Duke, 62-63; instr. soc. psychol, Harvard, 63-64, asst. prof, 64-67; ASSOC. PROF. PSYCHOL. & CHMN. DEPT, SWARTHMORE COL, 67- Nat. Sci. Found. res. grant, 64-; Guggenheim fel, 67- Summers, vis. asst. prof, North Carolina, 63, lectr, Colorado, 67 & res. fel, Stockholm, Sweden. Consult, Arthur D. Little, Inc, 65-; Nat. Acad. Sci. & Bio-Dynamics Inc, 66- U.S.N.R, 57-59, Lt. Psychol. Asn; Soc. Exp. Social Psychol; Sociol. Asn; Acad. Polit. & Soc. Sci; Asn. Pub. Opinion Res. Self-conception; social perception; attitude change; personality and public opinion; effects of international aid; public policy formation. Publ: Co-auth, The self in social interaction, Wiley, Vols. I & II, 68, The study of policy formation, Macmillan, 68 & Personality and social behavior, Addison-Wesley, (in press). Address: Dept. of Psychology, Swarthmore College, Swarthmore, Pa. 19081.

GERHARD, DR. HANS W(OLFRAM), b. Christdorf, Germany, Jan. 9, 29; m. 52; c. 3. ECONOMICS. Fulbright fel, Tübingen, 51, Dr. rer. pol, 58. Asst. ed, German Encyclop. of Social Sciences, 55-58; asst. prof. econ, Duke, 59-62, assoc. prof, 63-66; ECONOMIST, INT. MONETARY FUND, WASH, D.C, 66- Econ. Asn; Soc. Econ. & Social Sci, Germany. International finance; economic development. Publ: Co-auth, Handwörterbuch der Sozialwissenschaften; auth, Tariffs and trade in the common market; Stabilization through international commodity agreements. Address: 6505 Cardigan Rd, Bethesda, Md. 20034.

GERHARDT, PAUL H(ARDING), Econ, see 10th ed, Soc. & Behav. Vols.

GERJUOY, DR. HERBERT (GEORGE), b. Brooklyn, N.Y, Apr. 22, 29; m. 52; c. 2. PSYCHOLOGY. A.B, Southern California, 49; M.A, Iowa, 52, Ph.D. (psychol), 53. Res. assoc. psychol, Iowa, 53-54; instr, Indiana, 54-57; assoc. prof, Toledo, 57-62, chmn. dept, 59-62; res. psychologist, Ed. Testing Serv, 63-67; SR. STAFF SCIENTIST, HUMRRO, GEORGE WASHINGTON, 67- Vis. lectr, Princeton, 63, Nat. Sci. Found. summer res. fel, Michigan, 59. Consult, HumRRO, 57-; N.J. Bur. Res. Neurol. & Psychiat, 60-67; Univ. Delaware, 63-; Rutgers Univ, 64-, coadjutant, 65-67. AAAS; Psychol. Asn; Psychomet. Soc; Acoustical Soc; Human Factors Soc. Application of mathematical models to psychological problems; philosophy and history of science; multidimensional scaling; automated data processing; education of unmonied Americans; interpersonal communication about affect; military training and culture. Publ: Ed, Proceedings of the First National Rehabilitation Conference, 1961, Res. Found, Univ. Toledo, 62; co-auth, Generalization effects in successive discrimination learning as measured by response similarity; Mental hospital ward attendants' work attitudes and their work experiences in front or back wards. Address: 1141 Lighthouse Ave, Pacific Grove, Calif. 93950.

GERKEN, PROF. C(LAYTON) d'A(RMOND), b. St. Louis, Mo, Feb. 16, 09; m. 33; c. 2. PSYCHOLOGY. B.A, Oklahoma, 36, M.S, 37; Ph.D.(psychol), Iowa, 50. Instr, col. lib. arts, Minnesota, 38-40; instr. psychol. & dir. student personnel, Rochester Jr. Col.(Minn), 40-43; assoc. prof. psychol. & dir. univ. couns. serv, Iowa, 43-57; PROF. PSYCHOL, ED. PSYCHOL. & MEASUREMENT, NEBRASKA, 57- Consult, Am. Registry Phys. Therapists, 41-; Am. Bd. Phys. Med. & Rehab, 47-; Vet. Admin, 53- Psychol. Asn. Vocational and counseling psychology. Publ: Study your way through school; co-auth, Revised Minnesota occupational rating scales; Evaluation of professional competence in physical medicine and rehabilitation, Arch. Phys. Med. & Rehab. Address: 3727 Stockwell, Lincoln, Nebr. 68506.

GERKEN, DR. GEORGE M(ANZ), Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GERLACH, DR. ARCH C(LIVE), b. Tacoma, Wash, May 12, 11; m. 35. GEOGRAPHY. B.A, San Diego State Col, 33; M.A, California, Los Angeles, 35; Ph.D, Washington (Seattle), 43. Teacher, Los Angeles City Col, 39-42; cartographer, Off. Strategic Serv, Wash, D.C, 42-45; acting chief map div, U.S. Dept. State, 45-46; assoc. prof. geog, Wisconsin, 46-50; chief map div. & chair geog, Library of Cong, 50-67; CHIEF GEOGR, U.S. GEOL. SURV, 67-, staff geogr, 63-67. Ed, The Prfnl. Geogr, 52-54. U.S. mem. cmn. classification geog. books & maps in libraries, Int. Geog. Union, 52-60, v.pres, 64-68; dir. coun, Pan Am. Inst. Geog. & Hist, 57-, v.pres, 65-69; chmn. adv. cmt. geog, U.S. Dept. State, 57-62; mem. nat. atlas cmt, Nat. Res. Coun, 58-61. U.S.N.R, 43-45, Lt. Asn. Am. Geog.(secy, 57-60, v.pres, 61-62, pres, 62-63); Am. Geog. Soc; Spec. Libraries Asn; Nat. Coun. Geog. Ed; Cong. Surv. & Mapping. Cartography; urban geography; resource conservation. Publ: Summary of trends in geography, In: Britannica book of the year; Map cataloging and classification in libraries, In: Special libraries; Potential uses of government libraries for geographical research, J. Geog. Address: U.S. Geological Survey, Washington, D.C. 20242.

GERLACH, DR. FREDERICK H, b. Milwaukee, Wis, Aug. 9, 38; m. 67. INTERNATIONAL RELATIONS. B.A, Wisconsin, Madison, 61; Georgetown, summer 63; univ. fel. & M.I.A, Columbia, 63, Nat. Defense Ed. Act fel. & Ph.D.(int. rels), 68; Fulbright-Hays-Nat. Defense Ed. Act fel, 65-66. FOR. SERV. OFFICER, secretariat, U.S. Dept. State, 66-68; OFF. INT. INDUST. COOP, U.S. DEPT. TRANSPORTATION, 68- Polit. Sci. Asn. International and Middle East politics; German and American foreign policy. Address: 1711 N. Quincy St, Arlington, Va. 22207.

GERLACH, DR. LUTHER P(AUL), b. U.S, Oct. 25, 30; m. 58; c. 1. CULTURAL & SOCIAL ANTHROPOLOGY. B.A, Minnesota, 52; Fulbright Jr. fel. & Nat. Sci. Found. grant, E.Africa, 58-60; Ph.D, London, 61. Vis. lectr. anthrop, Minnesota, 60-61; asst. prof. anthrop. & sociol, Lafayette Col, 61-63; ANTHROP, MINNESOTA, MINNEAPOLIS, 63-65, ASSOC. PROF, 65- Res. grants, Ferndale Found, 67 & Hill Family Found, 67-69. U.S.A, 52-54. Anthrop. Asn; Soc. Appl. Anthrop; African Studies Asn; Int. African Law Asn. Islam in Africa; human ecology; economic anthropology; social and religious mass movements, especially Pentecostalism as mass movement in Haiti and the United States. Publ: Black power as a mass movement; Nutrition in its sociocultural matrix: food getting and using along the east African coast, In: Ecology and economic development, Inst. Int. Studies, Univ. California, 65; co-auth, Five factors crucial to the growth and spread of a modern religious movement, J. Sci. Study Relig, spring 68. Address: Dept. of Anthropology, University of Minnesota, Minneapolis, Minn. 55455.

GERLACH, DR. VERNON SAMUEL, b. Alpena, Mich, Oct. 24, 22; m. 46; c. 4. EDUCATIONAL TECHNOLOGY. B.A, Wayne State, 48; M.A, Minnesota, Minneapolis, 53; Ed.D, Arizona State, 63. Teacher & prin, elem. sch, Minn, 47-54; prof. ed. & dir. student teaching, Bethany Col.(Minn), 54-57; prin, elem. sch, Minn, 57-58; teacher, Wash. Dist. Schs, Ariz, 58-60, consult. audiovisual & instructional mat, 60-61 & dir. center, 61-62; acting dir, audiovisual center, ARIZONA STATE, 62-63, asst. prof. ED, 63-65, ASSOC. PROF, 65-, CHMN. DEPT. LIBRARY SCI. & COORDINATOR ED. TECH, 67-, RES. ASSOC, CLASSROOM LEARNING LAB, 62- Nat. Defense Ed. Act. res. grants, 62-68; vis. faculty mem, annual audiovisual inst, center continuation study, Minnesota, Minneapolis, 64; faculty res. grants, Arizona State, 64 & 65-66, sr. staff mem, Elem. & Sec. Ed. Act Inst, 66. Consult, ed. workshops & confs, univs, Ariz. sch. dists, Nat. Defense Ed. Act insts, & indust corp, 64-67; res. labs, Eastman Kodak Co, N.Y, 66- Co-dir, proj. beacon workshop, pub. schs, N.Y, 66-67. Ed. Res. Asn; Psychol. Asn; Nat. Coun. Measurement in Ed; Nat. Soc. Study Ed. Experimental analysis of classroom behavior; educational product development; quality verification and installation. Publ: Describing educational outcomes, 67 & co-auth, Constructing statements of outcomes, 67, Southwest Regional Lab. Ed. Res. & Develop; auth, Programming AV laboratory instruction; the process of revision, Ed. Screen & Audiovisual Guid, 6/67. Address: Dept. of Education, Arizona State University, 109 Education Bldg, Tempe, Ariz. 85281.

GERLETTI, PROF. JOHN D, b. Sparta, Wis, Aug. 4, 15; m. 46; c. 4. PUBLIC ADMINISTRATION. B.S, Wis. State Col.(La Crosse), 39; M.S, Southern California, 47, Ed.D, 49. Res. assoc, delinquency control inst, SCH. PUB. ADMIN, SOUTHERN CALIFORNIA, 49-50, asst. prof. PUB. ADMIN, 50-52, assoc. prof, 52-61, PROF, 61-, DIR. UNDER-GRAD. STUDIES, 54- Chief manual br, Fed. Civil Defense Admin, 51-52; gen. mgr, Int. Asn. Fire Chiefs, 54-55; adv, Univ. Tehran, Iran, 58-59; sr. adv, Nat. Inst. Pub. Admin, Pakistan, 62-; chief of party, pub. admin. adv. group, Pakistan, 64-65. Tech. consult, Round Table Prod, 61-66. U.S.A, 43-46, 1st Lt. Soc. Pub. Admin. Curriculum development for impact programs in the field of public administration, especially programs for developing nations. Publ: Co-auth, Successful supervision; Nursing home administration; California supplement, Civil defense management, Southern California, 65. Address: University of Southern California School of Public Administration, Los Angeles, Calif. 90007.

GERLING, PROF. AMY G(ESSNER), b. Lafayette Co, Wis, July 14, 06. SOCIOLOGY. A.B, Wisconsin, 31, A.M, 33; Ph.D, Cornell, 39. Sociologist, exten. div, Wisconsin, 33-37; asst. prof. sociol, Judson Col, 39-40; soc. sci. analyst, U.S. Dept. Agr, 40-43; wage rate analyst, War Labor Bd, 43-45; instr. SOCIOL, WICHITA STATE, 47-48, asst. prof, 48-53, assoc. prof, 53-61, PROF, 61- Fel. Sociol. Asn; Rural Sociol. Soc; Nat. Coun. Family Rels. Attitude measurement; family interaction; selective factors in migration from a New York rural community; day care for children; role expectations of college women; family patterns of Hungary and Czechoslovakia. Publ: Conflict between generations on moral norms. Address: Dept. of Sociology, Wichita State University, Wichita, Kans. 67208.

GERMANE, PROF. GAYTON E(LWOOD), b. U.S, Aug. 20; m. 49; c. 2. BUSINESS MANAGEMENT. A.B, Missouri, 41; M.B.A, Harvard, 46, fel, 47-49, A.M, 48, Ph.D, 49. Asst. prof. bus. admin, grad. sch. bus. admin, Harvard, 50-52; from assoc. prof. transportation & for. trade to prof. transportation & mgt, GRAD. SCH. BUS, STANFORD, 52-64, 1907 FOUND. PROF. LOGISTICS, 64- Dir. transportation mgt. prog, Stanford, 55-58, Army transportation res. proj, 56-59; transportation policy, U.S. Dept. Defense, 59-60; transportation planning & res, U.S. Steel Corp, 61-; adj. prof, grad. sch. bus, Pittsburgh, 63-64. Consult, Secy. Commerce, 61. Trustee, Transportation Res. Found. Mem. adv. bd, transportation center, Northwestern, 63-64; bd. visitors, Army Transportation Sch; President's Adv. Cmn. Parcel Distribution Serv. Transportation Res. Forum (pres, 63); Econ. Asn. Logistics; top management; business economics. Publ: Co-auth, A new concept of transportation movement, Grad. Sch. Bus, Stanford, 59; Highway transportation management, 63 & Top management, 68, McGraw. Address: Graduate School of Business, Stanford University, Stanford, Calif. 94305.

GERMANI, PROF. GINO, b. Rome, Italy, Feb 4, 11; m. 54; c. 2. SOCIOLOGY. Rome, 31-34; Lic-en-Phil, Buenos Aires, 43; hon. M.A, Harvard, 66. Res. dir. SOCIOL, inst. sociol, Univ. Buenos Aires, 41-45; prof, Free Col. Higher Studies, 46-54; prof. & chmn. dept, Buenos Aires, 55-66; PROF, HARVARD, 66- Mem. exec. cmt, Latin Am. Soc. Sci. Coun, 67- Hon. mem.

Am. Acad. Arts & Sci; fel. Am. Sociol. Asn; Argentine Sociol. Asn.(pres, 60-66); Int. Sociol. Asn.(v.pres, 52-66); Int. Soc. Sci. Coun. Sociology of modernization and development, especially in Latin America; political sociology. Publ: Estructura social de la Argentina, Raigal, Buenos Aires, 55; Política y sociedad en una época de transición, Paidos, Buenos Aires, 62; Sociología in la América Latina, Eudeba, Buenos Aires, 64. Address: Dept. of Social Relations, William James 570, Harvard University, Cambridge, Mass. 02138.

GERMANN, PROF. A(LBERT) C, b. Los Angeles, Calif, Apr. 13, 21; m. 46; c. 2. CRIMINOLOGY, PUBLIC ADMINISTRATION. B.S, Loyola (Calif), 49; M.S, Southern California, 55, D.P.A, 56. Police officer, Los Angeles Police Dept, 49-55; mem. faculty, dept. police admin, Mich. State, 55-57; PROF. CRIMINOL, CALIF. STATE COL. LONG BEACH, 57- Spec. consult, police task force, President's Cmn. Law Enforcement & Admin. Justice, 66-67. U.S.A.F, 43-45, 51-52, 1st Lt. Police executive development and personnel management. Publ: Police personnel management; Introduction to law enforcement; Police executive development. Address: Dept. of Criminology, California State College at Long Beach, Long Beach, Calif. 90804.

GERMINO, DR. DANTE LEE, b. Durham, N.C, June 9, 31; m. 53; c. 2. POLITICAL SCIENCE. A.B, Duke, 52; fel, Harvard, 53-56, A.M, 54, Fulbright scholar, 54-55, Ph.D, 56. Instr. polit. sci, Wellesley Col, 56-58, asst. prof, 58-64, assoc. prof, 64-66; FIELD STAFF MEM. HUMANITIES & SOC. SCI, ROCKEFELLER FOUND, 66- Rockefeller Found. res. grant, 60-61; vis. prof, Univ. Philippines, 65-68; vis. prof. govt. & for. affairs & mem. center adv. studies, Virginia, 68-70. Lilly Endowment summer fel, 58. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Political theory; totalitarianism; comparative government: Europe. Publ: Italian Fascist Party in power; Beyond ideology, 67 & co-auth, Government of Italy, 1/68, Harper. Address: Rockefeller Foundation, 111 W. 50th St, New York, N.Y. 10016.

GERNAND, ARTHUR C(ARL), b. Germany, July 28, 00; m. 34. ECONOMICS. Ph.B, Chicago, 24, M.A, 27. Economist, War Prod. Bd, 41-43; chief prog. reporting, Pub. Housing Admin, 43-46; labor standards adv, manpower div, Mil. Govt. of U.S. in Germany, 46-48; statistician, off. secy, U.S. Dept. Defense, 48-50; economist, res. div, Housing & Home Finance Agency, 50-53; labor standards adv, Int. Coop. Admin, Iran, 54-56; dep. dir. statist. reports staff, Housing & Home Finance Agency, 56-62; housing consult, Govt. Guam, 63-64; ECONOMIST, DEPT. HOUSING & URBAN DEVELOP, 65- Econ. Asn; Statist. Asn. Administration of workmen's compensation law; labor standards in Iran; housing programs of the federal government. Address: 2500 Wisconsin Ave, Washington, D.C. 20007.

GEROW, DR. BERT A(LFRED), b. Lafayette, Calif, Dec. 26, 15; m. 42; c. 5. ANTHROPOLOGY. A.B, California, Los Angeles, 38; Ph.D, California, 50. Asst. prof. ANTHROP, STANFORD, 48-54, ASSOC. PROF, 54- U.S.N.R, 42-46, Lt.(jg). Anthrop. Asn; Ling. Soc. American linguistics; archaeology; ethnology. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

GERRA, MARTIN J(EROME), b. New York, N.Y, May 14, 27; m. 49; c. 2. ECONOMICS, STATISTICS. B.S, Georgetown, 49; M.A, Catholic Univ, 54. Econ. analyst, bur. labor statist, U.S. Dept. Labor, 49-52; econ. statistician, agr. mkt. serv, U.S. Dept. Agr, 52-62; staff economist, Int. Bus. Mach. Corp, 62; Lockheed Aircraft Corp, 62-64; mgr. econ. planning, FED. SYSTS. DIV, INT. BUS. MACH. CORP, 64-67, mgr. econ. anal, 67, MGR. STRATEGIC PLANNING, 68- Soc. Sci. Res. Coun. fel, 56; Johnston fel. polit. econ, Hopkins, 59-60, lectr, 60-61. U.S.A.A.F, 45-46. Econ. Asn; Economet. Soc; Inst. Mgt. Sci. Econometrics; price and allocation theory; operations research. Publ: Demand, supply and price structure for eggs, Govt. Printing Off; co-auth, Transport industry planning —a rail example of a multi-modal model, Inst. Mgt. Sci, 67; Supply-utilization of agricultural food products, Agr. Econ. Res. Address: 3505 Calvend Lane, Kensington, Md. 20795.

GERRISH, DR. CATHERINE R(UGGLES), b. Winona, Minn, July 10, 11; m. 46. ECONOMICS. A.B, Radcliffe Col, 32, A.M, 34, Ph.D, 37. Res. asst, Harvard, 37-39; Illinois, 39, from instr. to asst. prof, 40-43; assoc. prof, 46; mem. staff, Bur. Budget, D.C, 43-45; ASST. ED, QUART.J. ECON, HARVARD, 52- Econ. Asn. Address: 207 Grove St, Cambridge, Mass. 02138.

GERSCHENKRON, PROF. ALEXANDER, b. Russia, Oct. 1, 04; nat; m. 28; c. 2. ECONOMICS. Dr. rer. pol, Vienna, 28. Res. assoc. & lectr. econ, California, 38-44; chief for. areas sect, Fed. Reserve Bd, 44-48; PROF. ECON, HARVARD, 48- Econ. Asn; Statist. Asn; Econ. Hist. Asn; Econ. Hist. Soc, Brit. International trade; soviet economy, industrial history of Europe. Publ: Bread and democracy in Germany, Economic backwardness in historical perspective; Dollar index of Soviet machinery output. Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

GERSHENFELD, DR. WALTER J(AY), b. Philadelphia, Pa, Oct. 26, 25; m. 55; c. 3. LABOR ECONOMICS, MANAGEMENT. B.S, Temple, 48; A.M, Pennsylvania, 49, Ph.D.(indust. rels), 64. Res. assoc, Indust. Union Marine & Shipbuilding Workers, Am. Fedn. Labor-Cong. Indust. Orgns, 50-51; indust. rels. analyst, Wage Stabilization Bd, 51-53; asst. dir. indust. rels, Int. Resistance Co, Pa, 53-60; dir. indust. rels, Progress Mfg. Co, Inc, 60-64; ASSOC. PROF. MGT, Arizona State, 65-66; TEMPLE, 66- U.S.A, 44-46. Indust. Rels. Res. Asn; Acad. Mgt. Collective bargaining; manpower; minority-group problems. Publ: The Lancaster study implications, In: The Negro and employment opportunity, Univ. Michigan; Unionization of public employees in Arizona, Ariz. Bus. Bull, 3/67; A primer for government officials during labor disputes, Labor Law J, 4/67. Address: Dept. of Management, School of Business Administration, Temple University, Philadelphia, Pa. 19122.

GERSHENSON, MAURICE I(RVING), b. London, Eng, July 1, 04; nat; m. 27; c. 1. ECONOMICS, STATISTICS. B.S, California, Berkeley, 27. Chief div. labor statist. & res, State Dept. Indust. Rels, Calif, 39-67; STATIST. & ECON. CONSULT, EDEN & GERSHENSON, 67- Consult, State Interdept. Res. Coord. Cmt, Calif, 45-; State Interdept. Cmt. Probs. Aging, 50-; cmt. sampling interproperty tax assessment, State Bd. Equalization, 54-55; Proj. Rehab. Indust. Injured, 55-61. Chmn, Pac. Coast cmt. soc. statist, Soc. Sci. Res. Coun, 51-55, mem, cmt. hist. statist. of U.S, 56-60; chmn. cmt. statist, Int. Asn. Indust. Accident Bd. & Cmns, 55-60, mem, 61-; tech. adv. cmt, Bur. Census, 56- Coordinator, res. div, Governor's Conf. Aging, 60. Fel. AAAS; fel. Statist. Asn; Econ. Asn; Indust. Rels. Res. Asn. Labor and industrial relations; population, labor force and employment; statistical methodology; accounting. Address: 928 Colusa Ave, Berkeley, Calif. 94707.

GERSHMAN, DR. LOUIS, b. Philadelphia, Pa, Nov. 23, 19; m. 54; c. 3. PSYCHOLOGY. B.A, Temple, 39, M.Ed, 58, Ph.D.(psychol), 67. Teacher, high sch, Pa, 42-60; instr. PSYCHOL, Temple, 60-65; ASSOC. PROF, VILLANOVA, 65- Management performance; supervisory and executive development; attitude development; teacher evaluation; guidance. Address: Dept. of Psychology, Villanova University, Villanova, Pa. 19085.

GERSHON, DR. ARTHUR, b. New York, N.Y, Dec. 2, 23; m. 61. PSYCHOLOGY. B.A, California, Los Angeles, 58; M.A, Southern California, 61, Ph.D. (psychol), 63. Supvr. aptitude proj, dept. psychol, Southern California, 58-62, dir. human factors, sch. dent, 61-65, co-dir. comput. res, 64-65; SR. PSYCHOLOGIST, FIELD ENG. DIV, INT. BUS. MACH. CORP, WHITE PLAINS, 65- Consult, Int. Cmn. Refugee Resettlement, 64-65. U.S.A, 42-45, Capt. Psychol. Asn; Psychomet. Soc. Measurement theory and application to personnel testing and assessment at corporate executive levels. Publ: Prediction of management success, Cove-McKane Press, 68; Acoustic analgesia in dentistry, 4/61 & Figural and symbolic divergent productive abilities in adults and adolescents, 4/62, Science. Address: 26 Andover Rd, Hartsdale, N.Y. 10530.

GERSON, PROF. LOUIS LEIB, b. Poland, Nov. 10, 21; nat; m. 50; c. 2. GOVERNMENT, INTERNATIONAL RELATIONS. B.A, Connecticut, 48; M.A, Yale, 50, Ford Found. fel, 52-53, Ph.D.(int. rels), 53. Instr. govt. & int. rels, CONNECTICUT, 50-54, asst. prof, 54-59, assoc. prof, 59-63, PROF. POLIT. SCI, 63-, HEAD DEPT, 67-, acting head dept. govt. & int. rels, 58. Hon. fel, Yale, 54-55; Guggenheim fel, 57-58; Rockefeller Found. fel, 63-64; Fulbright vis. prof, Univ. Bombay, 66-67. Trustee, Inst. Mediterranean Studies. Polit. Sci. Asn; Hist. Asn. American diplomacy; influence of ethnic groups on American foreign policy. Publ: Woodrow Wilson and the rebirth of Poland, Yale, 53; The hyphenate in recent American politics and diplomacy, Univ. Kansas, 64; John Foster Dulles, Cooper, 67. Address: Ball Hill Rd, Storrs, Conn. 06268.

GERSON, DR. WALTER M, b. Great Falls, Mont, Apr. 1, 35; m. 62. SOCIOLOGY. B.A, Montana, 57, M.A, 58; Ph.D.(sociol), Washington (Seattle), 63. Instr. SOCIOL, Stanford, 62-63; asst. prof, Minnesota, Minneapolis, 63-67; ASSOC. PROF, TORONTO, 67- Am. Sociol. Asn; Soc. Study Social Probs; Can. Sociol. & Anthrop. Asn. Sociology of popular culture and the arts; mass communication; social organization and social structure; minority groups and subcultures. Publ: Jews at Christmas time: role-strain and strain reducing mechanisms, In: Minority group problems, 65 & Violence: an American value theme?, In: Violence and the mass media, 68, Harper; Mass media socialization: Negro-White differences, Soc. Forces, 9/66. Address: Dept. of Sociology, University of Toronto, Toronto 5, Ont, Can.

GERSTEIN, DR. ALVIN I(RA), b. New Bedford, Mass, Aug. 10, 32; m. 55; c. 3. CLINICAL PSYCHOLOGY. A.B, Brown, 54; fel, Rochester, 59-60, Ph.D.(clin. psychol), 60. Trainee, Vet. Admin. Training Prog, 54-59; psychologist, R.I. Hosp, 60-61; sr. psychologist, Inst. Pa. Hosp, 61-63; CHIEF PSYCHOLOGIST, I. SCHWARTZ INST. FOR CHILDREN, PHILA, 63-, PROG. DIR. PSYCHOL. TRAINING PROG, 67- Sch. psychologist, N.Y, 58-59; res. coordinator & consult, juvenile delinquency proj, Providence Child Guid. Clin, 60-61; consult, Delaware Valley Child Guid. Clin, 62-63; Presby. Childrens Village, Rosemont, Pa, 64- Psychol. Asn. Variables affecting awareness of the purpose of the experiment; development of diagnostic tools for hearing and cortical damage in the infant; clinical developmental psychopathology. Publ: Effect of reinforcement schedules on meaning generalization and awareness, J. Personality; co-auth, Validity of the Hewson ratios, J. Consult. Psychol. & Base rate data on Rorschach card rejection, J. Clin. Psychol. Address: 100 Summit Lane, Bala Cynwyd, Pa. 19004.

GERSTENFELD, DR. ARTHUR, b. New York, N.Y, Feb. 2, 27; m. 60; c. 4. ORGANIZATIONAL BEHAVIOR. B.Mgt.Eng, Rensselaer Polytech, 50; Sc.M, Mass. Inst. Tech, 65, Ph.D.(orgn), 67. Plant mgr, Bogart Mfg, 50-60; mgr. progs. res. & develop, NASA, 61-64; res. assoc. mgt. res. & develop, Mass. Inst. Tech, 64-67; ASSOC. PROF. OPER. MGT, BOSTON, 67- Consult, Dept. Health, Ed. & Welfare, Digital Equip, & Pa. State, 67-68. U.S.N, 44-46. Inst. Indust. Eng. Management of research and development. Publ: Co-auth, Time allocation among three technical information channels, Sloan Sch. Mgt, Mass. Inst. Tech, 66 & The problem of internal consulting, Boston Univ, 68. Address: College of Engineering, Boston University, 110 Cummington St, Boston, Mass. 02215.

GERSTL, PROF. JOEL E(MERY), b. Prague, Czech, Aug. 20, 32; U.S. citizen; m. 66; c. 1. SOCIOLOGY. B.A, Columbia, 54, M.A, 55; Ph.D.(sociol), Minnesota, 59. Instr. sociol, Minnesota, 57-58; lectr. & res. assoc, Michigan, 58-60; lectr. indust. sociol, Wales, 60-62; dept. eng, Cambridge, 62-63; asst. prof. SOCIOL, Purdue, 63-65; assoc. prof, TEMPLE, 65-68, PROF, 68- Gt. Brit. Dept. Sci. & Indust. Res. grant, 61-62. Summer consult, temporary cmn. continuing ed, United Presby. Church, U.S, 67. Sociol. Asn; Soc. Psychol. Study Social Issues. Sociology of occupations and professions; social stratification. Publ: Co-auth, Engineers: the anatomy of a profession, Tavistock Ltd, 66 & Barnes & Noble, 67; On education: sociological perspectives, 67 & The engineers and the social system, 68, Wiley. Address: Dept. of Sociology, Temple University, Philadelphia, Pa. 19122.

GERSTMAN, DR. LOUIS J(OSEPH), b. Buffalo, N.Y, Apr. 22, 30; m. 54, 60; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Buffalo, 49; A.M, Harvard, 52; Ph.D.(psychol), N.Y. Univ, 57. Res. assoc, Haskins Labs, 51-59; mem. tech. staff, Bell Tel. Labs, Inc, 59-62; prin. exp. psychologist, Bulova Res. & Develop. Labs, 62; sr. res. scientist & adj. assoc. prof. indust. eng, sch. eng. & sci, N.Y. Univ, 63-66; ASSOC. PROF. PSYCHOL, QUEENS COL.(N.Y), 66-

Consult, helium speech retrieval, Gen. Precision Labs, 65-66, 68-; keyboards cmt, U.S. Am. Standards Inst, 67-; psycholing, William Alanson White Inst, 67-; res. design, inst. rehab. med, N.Y. Univ. Med. Center, 67- AAAS; Psychol. Asn; Acoustical Soc; Psychonomic Soc; Inst. Elec. & Electronics Eng; Human Factors Soc. Computer analysis and synthesis of speech; psycholinguistics; biomedical computing; information and decision processing; mathematical modeling of behavior; helium speech; aphasia; hemiplegia; man-machine systems. Publ: Co-auth, A new method for analyzing printed English, J. Exp. Psychol, 52; Digital computer synthesized human speech, Bell Labs. Record, 62; Computer prediction of language recovery after stroke, Proc. Int. Conf. Med. Electronics & Biol. Eng. Tokyo, 65. Address: 53 Saint Marks Place, New York, N.Y. 10003.

GERSUMKY, WILLIAM D(AWSON), b. Chelsea, Mass, July 26, 30; m. 56; c. 2. ECONOMICS, CHEMISTRY. A.B, Bowdoin Col, 52; M.B.A, N.Y. Univ, 57. Res. chemist, Am. Cyanamid Co, 52-57, mkt. analyst, 57-59; v.pres. Robert S. First, Inc, N.Y, 59-62, exec. v.pres, Robert S. First S.A, Switz, 63-64; PRES, INTERAMER RES. CORP, 64- Chem. Soc; Chem. Mkt. Res. Asn. Marketing and economic problems in the chemical and allied industries, especially in Europe and Latin America. Publ: Marketing research in Europe, Rheinhold Pub, 67; Chemical opportunities in Europe, Chem. Week, 8/60; co-auth, Chemical markets in emerging nations, Proc. Mkt. & Econ. Sect, Am. Chem. Soc, 9/65. Address: 480 Mansfield Rd, Darien, Conn. 06820.

GERTEINY, DR ALFRED G(EORGE), African Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GERTEL, DR. KARL, b. Vienna, Austria, Jan. 9, 25; nat; m. 55. AGRICULTURAL ECONOMICS. B.S, Cornell, 48; M.S, Iowa State Col, 49, Ph.D, 54. LAND ECONOMIST, U.S. DEPT. AGR, Wash, D.C, 49-51, Nebr, 53-54, Pa, 54-58, Wash, D.C, 58-66, HAWAII, 66- Consult, Food & Agr. Orgn. UN, Northeast Brazil, 63-64. U.S.A, 43-44. Agr. Econ. Asn; Soil Conserv. Soc. Land and water utilization. Publ: Recent suggestions for cost allocation of multiple purpose projects & Price and assessment guides to western water allocation, J. Farm Econ; Low income farmers in the United States, Town & Country Church. Address: Dept. of Agricultural Economics, College of Tropical Agriculture, University of Hawaii, Honolulu, Hawaii 96822.

GERTH, DEAN DONALD ROGERS, b. Chicago, Ill, Dec. 4, 28; m. 55; c. 2. POLITICAL SCIENCE. A.B, Chicago, 47, A.M, 51, Ph.D.(polit. sci), 63. Part-time asst. to dir. test admin, Chicago, 47-49; field rep. Southeast Asia, World Univ. Serv, 50; asst. to pres. & admissions counsr, Shimer Col, 51; Chicago, 51, admissions counsr, 56-58; assoc. dean students, admissions & records, San Francisco State Col, 58-63; assoc. dean instnl. rels. & student affairs, Calif. State Cols, 63-64; PROF. POLIT. SCI. & DEAN STUDENTS, CHICO STATE COL, 64- Consult. & regional rep, Higher Ed. Exec. Assocs, 67-; mem, acad. coun, Col. Student Personnel Inst. Polit. Sci. Asn; Soc. Pub. Admin. Government and politics of higher education in the United States and abroad. Address: Dept. of Political Science, Chico State College, Chico, Calif. 95926.

GERTH, PROF. HANS H(EINRICH), b. Kassel, Germany, Apr. 24, 08; nat; m. 38, 57; c. 3. SOCIOLOGY. Heidelberg, 27-29; London, 29-30; Ph.D, Frankfurt, 33. Asst. prof, Illinois, 39-40; SOCIOL. & ANTHROP, WISCONSIN, 40-46, assoc. prof, 47-57, PROF, 58- Fulbright lectr, Frankfurt, 54-55, guest prof, 67; Fulbright lectr, Tokyo, 62-63. Fel. Sociol. Asn. Social psychology; sociological theory; political sociology. Publ: Co-auth, Character and social structure; co-translator, Religions of the East,3 vols; co-ed, Freedom, power and democratic planning. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

GERTY, DR. FRANCIS J(OSEPH), Med, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

GERTZ, DEAN BORIS, b. Havana, Cuba, June 14, 26; nat; m. 52; c. 2. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 50; M.A, Connecticut, 52; Ph.D.(psychol), Fla. State, 56. Asst. psychol, Fla. State, 51-54; clin. intern, Springfield State Hosp, 54-55; staff psychologist, S.C. State Hosp, 56-63; DEAN GRAD. SCH, LESLEY COL, 63- Lectr, South Carolina, 56-63. Consult, Tree of Life Synagogue; First Nat. Bank S.C. Assoc, Inst. Appl. Behav. Sci, Nat. Training Labs, 63- U.S.A, 44-46. AAAS; Psychol. Asn. Personality theory, development and projective techniques; psychotherapy; hospital ward development; laboratory methods of training; human relations and sensitivity training. Publ: Effect of handling at various age levels on emotional behavior of adult rats, J. Comp. & Physiol. Psychol; co-auth, Reliability of the HAS as a function of length of observation and level of adjustment, J. Clin. Psychol. Address: Graduate School of Education & Extension Division, Lesley College, 29 Everett St, Cambridge, Mass. 02138.

GERTZOG, DR. IRWIN NORMAN, b. Brooklyn, N.Y, May 18, 33; m. 56; c. 2. POLITICAL SCIENCE. B.A, Union Col.(N.Y), 54; Georgetown, 58-61; Falk fel, North Carolina, 61-63, Am. Polit. Sci. Asn. Congressional fel, 63-64, Ph.D.(polit. sci), 65. Instr. POLIT. SCI, YALE, 64-65, ASST. PROF, 65- U.S.A, 56-58. Polit. Sci. Asn. United States Congress; local political party organization. Address: Yale University, 1303A Yale Station, New Haven, Conn. 06520.

GERY, PROF. FRANK W(ILLIAM), b. Collingdale, Pa, July 1, 28; m. 51; c. 3. ECONOMICS. B.S, Temple, 50; M.B.A, Boston, 52, fel, 53-54, Ph.D, 57. Instr. econ. & bus. admin, East. Nazarene Col, 51-54, asst. prof, 54-57, assoc. prof, 57-60; Millikin, 60-62; ECON, ST. OLAF COL, 62-67, PROF, 67- Ford Found. summer res. fel, Mass. Inst. Tech, 59; Ford Found. adv. mgt. fel, Indiana, 63. Econ. Asn. Business cycles and economic fluctuations; money and banking, especially Federal Reserve System; economic statistics and theory. Publ: Postwar fluctuations in New England employment. Address: Dept. of Economics, St. Olaf College, Northfield, Minn. 55057.

GESCHWENDER, DR. JAMES A(RTHUR), b. Niagara Falls, N.Y, Nov. 30, 33; m. 61; c. 1. SOCIOLOGY. B.S, State Univ. N.Y. Col. Buffalo, 55; M.A, Mich. State, 59, Ph.D.(sociol, anthrop), 62. Asst. prof. SOCIOL, Fla. State, 62-64; Wayne State, 64-68; ASSOC. PROF, WESTERN ONTARIO, 68- Summer faculty res. fel, Wayne State, 65, faculty res. grant, 65-66. Sociol. Asn; Soc. Sci. Study Social Probs; Can. Sociol. & Anthrop. Asn. Social stratification; race relations; social movements and collective behavior; industrial sociology. Publ: Co-auth, Social reference basis of job satisfaction, Am. Sociol. Rev, 4/62; auth, Social structure and the Negro revolt, 12/64 & Continuities in theories of status consistency and cognitive dissonance, 12/67, Social Forces. Address: Dept. of Sociology, University of Western Ontario, London, Ont, Can.

GESICK, EDWARD J, b. Lawrence, Mass, Nov. 9, 14; m. 41; c. 2. BUSINESS ADMINISTRATION, ACCOUNTING. B.S, Boston, 38. Mem. staff, Arthur Andersen & Co, 37-41; asst. secy-treas, Popular Mech. Co, 45-48; treas, Mills Industs, Inc, 48-52; v.pres. & secy, Southwest Res. Inst, 52-60, consult, 61-66; V.PRES, GREAT WEST. LOAN & TRUST CO, 66- Secy-treas, Southwest Found. Res. & Ed, 52-59. U.S.A, 41-45, Lt. Col. Ordnance. Publ: Combining withholding and social security taxes; Getting set for war contracts & Costs and controls for research, Controller. Address: 1422 Wiltshire, San Antonio, Tex. 78209.

GESSFORD, DR. JOHN E(VANS), b. Provo, Utah, Apr. 29, 31; m. 59; c. 3. INDUSTRIAL ENGINEERING. B.S, Stanford, 53, Wilbur-Ellis scholar & M.S, 54, Baldwin-Ellis scholar & Ph.D, 57. Asst, math. & statist. lab, Stanford, 55-57, res.assoc, 57-58; mem. treas. staff, opers. res, Int. Paper Co, 58-62; opers. analyst, OPERS. RES, STANFORD RES. INST, 62-66, MGR, 67- Inst. Mgt. Sci. Operations research; management science. Publ: Co-auth, Mathematical theory of inventory and production, Stanford, 58; auth, Computer simulation yields evaluation of procurements, Inst. Mgt. Sci, 63. Address: 103 Felton Dr, Menlo Park, Calif. 94025.

GESSNER, DR. ALAN, b. Hempstead, N.Y, Mar. 22, 26; m. 48; c. 2. CLINICAL PSYCHOLOGY. A.B, Pa. State, 47, Ph.D, 54. Dir, MENT. HEALTH CENTER OF POLK COUNTY, BARTOW, 54-65, CONSULT, 65- Assoc. prof, dept. spec. ed. & behav. sci, South Florida, 64- Private practice, 57- Consult, Vanguard Sch, 66- Psychol. Asn; Asn. Ment. Deficiency; Coun. Except. Children; Nat. Coun. Family Rels. Learning disabilities of children; marriage and family counseling; mental retardation. Publ: Short form Wechsler-Bellevue validity with a college population; Discrimination learning of Mongoloid mental defectives; Differential diagnosis of mental defectives of endogenous, exogenous and undetermined etiology. Address: 1623 Edgewood Dr. E, Lakeland, Fla. 33803.

GETIS, DR. ARTHUR, b. Philadelphia, Pa, July 6, 34; m. 61; GEOGRAPHY. B.S, Pa. State, 56, M.S, 58; Ph.D.(geog), Washington (Seattle), 61. Acting instr, GEOG, Washington (Seattle), 58-61; asst. prof, Mich. State, 61-63; RUTGERS, 63-64, ASSOC. PROF, 64- Res. assoc, urban studies center, Rutgers, 63-; vis. lectr, Bristol Univ, 66-67. Mem. curriculum res. group. High Sch. Geog. Proj, 64-66. Am. Geog. Soc; Asn. Am. Geog; Regional Sci. Asn. Analyzing spatial structures of economies, especially theoretical inquiries concerning urban land use; urban geography. Publ: The determination of the location of retail activities with the use of a map transformation. Econ. Geog, 63; Temporal analysis of land use patterns with the use of nearest neighbor and quadrat methods, Ann. Asn. Am. Geogr, 64; A method for the study of sequences in geography, Inst. Brit. Geogr, Transactions, 67. Address: Dept. of Geography, Rutgers, The State University, New Brunswick, N.J. 08903.

GETTEL, DR. GERHARD F(REDERICK), Sociol, see 10th ed, Soc. & Behav. Vols.

GETTELL, PRES. RICHARD GLENN, b. Hartford, Conn, Mar. 3, 12; m. 48. ECONOMICS. A.B, Amherst Col, 33, LL.D, 57; fels, California, 35-37, Ph.D.(econ), 40; hon. L.H.D, Massachusetts, 62. Economist, U.S. Dept. Commerce & U.S. Dept. Labor, 33-35; instr. & tutor, Harvard, 38; from instr. to asst. prof, Yale, 38-45; chief staff economist & asst. to publisher, Fortune Mag, 45-50; chief staff economist, Time, Inc, 50-53; chief for. economist, Tex. Co, 53-57; PRES, MT. HOLYOKE COL, 57- Lectr, sch. bus. admin, Columbia, 47-48. Consult, opers. anal. div, U.S. Dept. Air Force, 46-60; res. & develop. bd, U.S. Dept. Defense, 47-48; Off. Defense Mgt, 54. With Off. Price Admin, 41-43. U.S.A.A.F, 43-45. Econ. Asn; Statist. Asn; Mkt. Asn; Opers. Res. Soc. International trade; corporation finance; general economic forecasting. Publ: Co-auth, Theory in marketing. Address: Mt. Holyoke College, South Hadley, Mass. 01075.

GETTENS, RUTHERFORD JOHN, Chem, see 11th ed, Phys. & Biol. Vols.

GETTIER, VOGEL E, Econ, Mkt, see 10th ed, Soc. & Behav. Vols.

GETTLEMAN, PROF. MARVIN E(DWARD), Mod. U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GETTY, PROF. HARRY T(HOMAS), b. Kansas City, Mo, July 30, 04; m. 30; c. 2. ANTHROPOLOGY. A.B, Baker, 28; fel. & M.A, Arizona, 32; Ph.D, Chicago, 50. Instr. ANTHROP, ARIZONA, 36-45, asst. prof, 45-53, assoc. prof, 53-66, PROF, 66- Grant, Am. Philos. Soc, 54-55. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; fel. Tree Ring Soc.(secy, 38-58). Cultural and applied anthropology; Indians of southwest United States; culture change among San Carlos Apaches; non-European leadership in Fiji Islands. Publ: The San Carlos Indian cattle industry, Univ. Arizona, 63. Address: 3302 E. Pima, Tucson, Ariz. 85716.

GETTYS, PROF. WARNER ENSIGN, b. Ravenna, Ohio, Apr, 91; m. 26; c. 1. SOCIOLOGY. A.B, Hiram Col, 13; A.M, Ohio State, 16, Ph.D, 24; summers, Chicago, 20-22. Prof. soc. sci, Culver-Stockton Col, 13-15; instr. sociol, Ohio State, 19-20; asst. prof, Tulane, 20-22; Texas, 22-24; McGill, 24-26; prof, TEXAS, 26-61, chmn. dept, 28-58, dir. bur. res. soc. sci, 30-42, EMER. PROF. SOCIOL, 61- Vis. prof, Rollins Col, 64-66. U.S.A, 17-19. Sociol. Asn.(2nd v.pres, 38). Sociology of conflict; social movements; human ecology; sociology textbooks. Publ: Co-auth, An introduction to sociology & Readings in sociology. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

GETZ, EZRA W, b. Killaloe, Ont, Jan. 11, 12; m. 33; c. 2. GEOGRAPHY. B.A, Western Ontario, 52; cert. geog, Ont. Col. Ed, Toronto, 54. HEAD DEPT. GEOG, South Grenville Dist. High Sch, 57-64; ST. LAWRENCE HIGH SCH, 64- Can. Asn. Geog. Address: 1612 Charles St, Cornwall, Ont, Can.

GETZELS, PROF. J(ACOB) W(ARREN), b. Poland, Feb. 7, 12; nat; m. 50; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 38; M.A, Columbia, 39; Livingston fel, Harvard, 49-50, M.A, 50, Ph.D.(psychol), 51. Asst. prof. ed. psychol, CHICAGO, 51-55, assoc. prof. ed. & lectr. psychol, 55-57, PROF. ED. PSYCHOL. & HUMAN DEVELOP, 58- Fel, Center Adv. Study Behav. Sci, 60-; summer vis. prof, Puerto Rico, 62 & Stanford, 63. Mem, U.S. Off. Ed. Mission, Soviet Russia, 60, res. adv. coun, 64-67. Am. Personnel & Guid. Asn. res. award, 59. Psychol. Asn; Sociol. Asn; Ed. Res. Asn. Behavioral theory; socialization processes; learning and personality; creativity and organizational processes. Publ: Co-auth, Creativity and intelligence: explorations with gifted students, Wiley, 62; auth, Interpersonal attitudes of former Soviet citizens, Psychol. Monogr; Use of theory in educational administration, Stanford Monogr. Address: 5704 S. Dorchester Ave, Chicago, Ill. 60637.

GEWIRTZ, DR. HERBERT, b. New York, N.Y, Mar. 30, 33; m. 56; c. 1. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 54; M.A, George Washington, 56; Ph.D.(clin. psychol), Massachusetts, 59. Psychologist, pub. schs, Mass, 56-58; clin. psychol. intern, Conn. Valley Hosp, 58-59, fel, clin. psychol, 59-60, clin. psychologist, 60-63, coordinator children's serv, 63-64; CHIEF CLIN. PSYCHOLOGIST, CHILD GUID. CLIN. FOR CENT. CONN, INC, MERIDEN, 64- Adj. asst. prof, Hartford, 61-; assoc, work study prog, Conn. Col; part-time faculty, Meriden Hosp. Sch. Nursing, Conn, 65; asst. prof, South. Conn. State Col, 66. Consult, Mt. St. John Sch. for Boys, Conn, 63; Conn. Valley Hosp, Middletown, 64-67. Psychol. Asn. Learning disorders in children; residential treatment of children. Publ: Co-auth, Changes in self acceptance & moral judgment in college students as a result of a companionship experience with a mentally ill patient, J. Consult. Psychol, 64; auth, Music therapy as a form of supportive psychotherapy, J. Music Ther, 64; co-auth, Physical education and recreation in a residential treatment for children, Psychiat. Quart. Suppl, 65. Address: 51 Highview Terrace, Middletown, Conn. 06457.

GEWIRTZ, DR. JACOB L(EON), b. Brooklyn, N.Y, July 31, 24; m. 55. PSYCHOLOGY. B.A, Brooklyn Col, 45; M.A, Iowa, 46, Ph.D.(child psychol), 48. Instr. psychol, Chicago, 48-50, asst. prof, 50-56; CHIEF SECT. EARLY LEARNING & DEVELOP, LAB. PSYCHOL, NAT. INST. MENT. HEALTH, 56- Vis. prof, Hebrew Univ, Israel, 59-61. Fel. Psychol. Asn; fel. Soc. Res. Child Develop. Personality theory; developmental processes; social learning. Publ: Learning analysis of the effects of normal stimulation, privation and deprivation on the acquisition of social motivation and attachment, In: Determinants of infant behavior, Methuen, Eng. & Wiley, U.S, 61; Deprivation and satiation of social stimuli as determinants of their reinforcing efficacy, In: Vol. I, Minnesota symposia on child psychology, Univ. Minnesota, 67; Mechanisms of social learning: some roles of stimulation and behavior in early human development, In: Handbook of socialization theory and research, Rand, 68. Address: 11652 Danville Dr, Rockville, Md. 20852.

GEYER, PROF. ALAN, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

GEYER, DR. HERBERT G(EORG), b. Gross-Gerau, Germany, Mar. 10, 27. ECONOMICS, PUBLIC FINANCE. Dipl, Frankfurt, 51, Dr. rer. pol, 55, Rockefeller Found. fel, 56-57; privat-docent, 61. Asst. pub. finance, Frankfurt, 51-56, res. assoc, 56-60; vis. lectr. ECON, Southern Methodist, 60-61, ASSOC. PROF, 61-62; Tulane, 62-65; HUNTER COL, 65- Lectr, Frankfurt, 58-60. German Army, 43-45, Prisoner of War, 45. Econ. Asn; Int. Inst. Pub. Finance; German. Asn. Pub. Welfare. Fiscal policy, particularly compensatory finance; economic theory. Publ: Untersuchungen ueber die Theorie des dynamischen makrooekonomischen Kernprozesses; co-auth, Volkswirtschaftliche Prozesse als Regelkreise; auth, Probleme der fiskalischen Einkommensredistribution, Finanzarchiv. Address: Dept. of Economics, Hunter College, 695 Park Ave, New York, N.Y. 10021.

GHANDHI, DR. J(AMSHED) K(HUSHRO) S(HAPOORJI), b. Jabalpur, India, Jan. 3, 39. ECONOMICS, FINANCE. B.S, Pennsylvania, 56, M.A, 57; M.A. & Ph.D.(econ), King's Col, Cambridge, 60. Lectr. finance, Pennsylvania, 60-61; res. officer, Cambridge, 62-65, dir. studies econ, Jesus Col, 63-65, Sidney Sussex Col, 64-65; ASSOC. PROF. FINANCE, PENNSYLVANIA, 65- Hallsworth fel, Manchester, 61-62. Royal Econ. Soc. Monetary economics, especially monetary policy; operation of capital markets. Publ: Hire purchase controls and replacement cycles, Banca Nazionale de Lavoro Review, 62; Some aspects of the provincial new issue market, Bull. Oxford Inst. Statist, 64; On the measurement of leverage, J. Finance, 66. Address: Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

GHENT, DR. LILA, Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

GHIARDI, JOHN F. L, b. Negaunee, Mich. ECONOMICS. B.A, Sacred Heart Sem, 39; M.A, Catholic Univ, 42. Economist, U.S. Dept. Treas, 48-66; DEP. ASST. SECY. INT. MONETARY AFFAIRS, DEPT. STATE, 66- U.S.A, 42-46. Econ. Asn. International finance; money and banking; economic theory. Address: 5815 Bradley Blvd, Bethesda, Md. 20014.

GHISELLI, PROF. E(DWIN) E(RNEST), b. San Francisco, Calif, June 28, 07; m; c. 3. PSYCHOLOGY. A.B, California, 30, M.A, 33, Ph.D.(psychol), 36. Nat. Res. Coun. fel. & res. assoc, Harvard, 36-37; asst. PSYCHOL, Cornell, 37-38; instr, Maryland, 38-39; asst. prof, CALIFORNIA, BERKELEY, 39-43, assoc. prof, 43-48, PROF, 48-, chmn. dept, 54-56 & 65-67. Vis. prof, Univ. Bologna, 56-57. U.S.A.A.F, 42-45, Lt. Col. Psychol. Asn. Industrial psychology; psychological measurement. Publ: Theory of psychological measurement, McGraw, 64; co-auth, Managerial thinking & auth, The validity of occupational aptitude tests, Wiley, 66. Address: Dept. of Psychology, University of California, Berkeley, Calif. 94720.

GHOBRIAL, PROF. GIRGIS BAKHOUM, b. Luxor, Egypt, June 6, 22. GEOGRAPHY. B.A, Alexandria, 45; dipl. ed, Cairo, 47, dipl. geog, 49; M.A, Minnesota, 56, Ph.D.(geog), 60. Teacher, high sch, Cairo, Egypt, 47-53; asst. prof. GEOG, Teachers Training Col, Cairo, 53-55; PROF, STATE UNIV. N.Y. COL. OSWEGO, 60- Res. grant, State Univ. N.Y. Col. Oswego, 67. Consult, John Wiley & Sons, Inc, 67. Asn. Am. Geog. Middle East and Africa. Address: Dept. of Geography, State University of New York College at Oswego, 436 Social Science Bldg. Oswego, N.Y. 13126.

GHORMLEY, PROF. HUGH W(ILLIAM), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 65.

GHOSH, DR. SKATI P, Math. Statist, Comput. Sci, see 11th ed, Phys. & Biol. Vols.

GIALLOMBARDO, DR. ROSE M(ARY), b. Willimantic, Conn, Nov. 12, 25. SOCIOLOGY. B.A, Connecticut, 58; M.A, Northwestern, 60, Ph.D.(sociol), 65. ASST. PROF. SOCIOL, N.Y. Univ, 64-66; CHICAGO, 67- Sociol. Asn; Soc. Study Social Probs. Social organization; general theory; deviant behavior. Publ: Society of women, a study of a women's prison, 66 & Juvenile delinquency, 66, Wiley; Interviewing in the prison community, J. Criminal Law; Criminol. & Police Sci, 9/66. Address: Dept. of Sociology, University of Chicago, Chicago, Ill. 60637.

GIAMBRA, DR. LEONARD MICHAEL, b. Jamestown, N.Y, Mar. 21, 41; m. 63. PSYCHOLOGY. A.B, Rochester, 63, M.A, Ohio State, 65, Ph.D.(psychol), 68. Res. asst. PSYCHOL, Ohio State, 63-66; instr, MIAMI (OHIO), 66-67, ASST. PROF, 67- AAAS; Psychol. Asn; Psychomet. Soc. Prediction of automobile for the under twenty-five age group; psychological effects of weapons; applied statistics; concept identification behavior. Publ: Co-auth, Psychological reactions to weapons: a factor analysis, 66 & Combat incidents of psychological reactions to weapons: a factor analysis, 67, U.S. Air Force Aerospace Res. Lab. Tech. Document. Report. Address: Dept. of Psychology, Miami University, Oxford, Ohio 45056

GIANNELL, PROF. A. STEVEN, b. Venice, Italy, Dec. 26, 31; U.S. citizen; m. 65; c. 1. CRIMINOLOGY. B.A, Liceo Prati, Trento, Italy, 50; LL.D, Padua, 57; M.A, Bowling Green State, 57. Attorney, 57-59; PROF. CRIMINOL. & PSYCHOL, STATE UNIV. N.Y. POTSDAM, 59- State Univ. N.Y. Res. Found res. grants & faculty fel, 61-64, 67-68. Psychol. Asn; Int. Soc. Criminol; Soc. Criminol; Correctional Asn; Med. Correctional Asn. Assessment, prediction, treatment and prevention of crime and delinquency; construction and standardization of the Giannell Index of Criminosynthesis, a test for the assessment of criminality. Publ: Giannell's criminosynthesis theory applied to female homosexuality, J. Psychol, 66; Criminosintesi, Quaderni di criminolgia clinica, 67; Giannell's criminosynthesis theory as an interviewing schedule for the assessment of criminality, Corrective Psychiat. & J. Soc. Ther, 67. Address: Dept. of Criminology & Psychology, State University of New York at Potsdam, Potsdam, N.Y. 13676.

GIANNINI, DR. MARGARET JOAN, Pediatrics, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

GIANNITRAPANI, DR. DUILIO, b. Milano, Italy, May 30, 27; m. 50; c. 4. PSYCHOLOGY. B.A, Brooklyn Col, 52; M.A, Clark, 53, fel, 53-55, Ph.D. (exp. psychol), 57. Asst, Clark, 52-57; clin. psychologist, Larned State Hosp, Kans, 57-59; Vet. Admin. Center, Wadsworth, Kans, 59-61; res. assoc. psychophysiol, Inst. Juvenile Res, 61-66; DIR. HUMAN PSYCHOPHYSIOL, MICHAEL REESE PSYCHOSOM. & PSYCHIAT. INST, 66- Instr. Leavenworth Fed. Penitentiary Br, Univ. Kansas, 59-61. AAAS; Psychol. Asn. Psychophysiology; developmental research in perception; aesthetics relating to sculpture, motion picture and architecture; thinking and intelligence relating to brain electrophysiological processes both longitudinally and in the study of personality. Publ: Changes in adaptation to prolonged perceptual distortion: a developmental study; Laterality preference of children and adults as related to inter-hemispheric EEG phase activity, J. Neurol. Sci, 66; Developing concepts of laterization of cerebral functions, Cortex, 67. Address: Michael Reese Psychosomatic and Psychiatric Institute, Chicago, Ill. 60616.

GIARRATANA, ANGELO C, b. Malden, Mass, Oct. 25, 31. MILITARY GEOGRAPHY, CLIMATOLOGY. A.B, Miami (Fla), 53; M.A, Illinois, 54. OPERS. ANALYST GEOG. & CLIMAT, opers. res. off, Hopkins, 57-61; Res. Anal. Corp, 61-67; PLANNING RES. CORP, GERMANY, 67- Soc. scientist geog, Qm. Res. & Eng. Command, U.S.A, 55-57. Asn. Am. Geog. Problems of military logistics; environmental analysis of factors affecting the broad range of military operations. Publ: Contrib, Guide to careers in science. Address: Planning Research Corp, Hq. USEUCOM J-3, APO New York 09128.

GIBB, DR. E(LIZABETH) GLENADINE, b. Biggsville, Ill, June 8, 19. MATHEMATICS. B.Ed, Western Illinois, 41; M.A, George Peabody Col, 44; Ph.D. (math. ed), Wisconsin, 53. Teacher, high schs, Ill, 41-46; from instr. to prof. math, State Col. Iowa, 46-65; PROF. MATH. ED, TEXAS, AUSTIN, 65- Summer lectr, Marshall, 50, 51 & 57, Wisconsin, 51, Vermont, 55, Maryland, 58, Michigan, 59. Mem. adv. cmt, Ed. Policy Cmn, 63-; elem. adv. cmt, Sch. Math. Study Group. Math. Asn. Am; Statist. Asn; Nat. Ed. Asn; Asn. Ed. Res. Children's learning of mathematics. Publ: Co-auth, Foundations of mathematics for elementary teachers, State Col. Iowa, 66 & General mental functions associated with division, In: Educational service studies, Iowa State Teachers Col, 56; auth, Basic objectives of the program, In: New directions in mathematics, Asn. Childhood Ed. Int, 65. Address: Science Education Center, Sutton Hall, University of Texas, Austin, Tex. 78712.

GIBB, DR. JACK R, b. Magrath, Alta, Dec. 20, 14; U.S. citizen; m. 40; c. 3. PSYCHOLOGY. A.B, Brigham Young, 36, M.A, 37; Chicago, 37; Ph.D.(psychol), Stanford, 43. From instr. to assoc. prof. psychol, Brigham Young, 37-46; asst. prof, Mich. State Col, 46-47, assoc. prof, 47-49; Colorado, 49-55, prof, 55-56; res. prof, Fels Group Dynamics Center, Delaware, 56-59; orgn. consult, Del, 60-64; resident fel. psychol, West. Behav. Sci. Inst, 64-66; ORGN. CONSULT, CALIF, 66- Faculty fel, Fund Adv. Ed, 53-54; dir. res, Nat. Training Labs, D.C, 57-60. Consult, U.S. Dept. Air Force; Govt. of Virgin Islands; Vet. Admin; Gen. Motors Corp, 62-; Dept. State, 65-

U.S.A, 43-46. Fel. Psychol. Asn; fel. Sociol. Asn; Adult Ed. Asn; Guid. & Personnel Asn. Group behavior; human learning; management development. Publ: Dynamics of participative groups; Applied group dynamics; co-auth, T-group theory and laboratory method, Wiley, 64. Address: 8475 La Jolla Scenic Dr, La Jolla, Calif. 92037.

GIBB, DEAN RICHARD D(EAN), b. Smithshire, Ill, Dec. 6, 28; m. 51; c. 2. AGRICULTURAL ECONOMICS. B.S, Illinois, 51, M.E, 55; Ph.D.(agr. econ), Mich. State, 59. Asst. AGR. ECON, Mich. State, 56-58; assoc. prof, WESTERN ILLINOIS, 58-66, PROF, 66-, DEAN ADMIN, 67-, acting dir. int. understanding, 64-65, admin. asst. to pres, 65-67. U.S.A, 51-53. Agr. Econ. Asn. Agricultural marketing; prices; consumer preference of grades of food items; tissue shrinkage of swine; economies of scale of livestock auctions. Publ: Research in agriculture: relationship between sale price, average daily gain, feed conversion, and backfat of test boars & Hog shrinkage, Western Illinois Bull; Analysis of operating costs at Michigan livestock auctions, Mich. State Tech. Bull. Address: Western Illinois University, 900 W. Adams St, Macomb, Ill. 61455.

GIBBARD, PROF. HAROLD A(LLAN), b. Mission City, B.C, Jan. 25, 12; nat; m. 43; c. 2. SOCIOLOGY. B.A, British Columbia, 32; M.A, McGill, 34; Ph.D, Michigan, 38. Instr. Mich. State Col, 37-38; from instr. to asst. prof, Brown, 38-46; asst. prof, Kansas, 46-48; PROF. SOCIOL. & CHMN. DEPT, WEST VIRGINIA, 48- Sociol. Asn. Community analysis; Appalachian regional studies; group structure and processes. Publ: Co-auth, Fundamentals of sociology: chap, In: Southern Appalachian region, a survey; Poverty and social organization, chap, In: Poverty amid affluence, Yale Univ, 66. Address: Dept. of Sociology, West Virginia University, Morgantown, W.Va. 26506.

GIBBON, PROF. ROBERT O(UTHWAITE), b. Tonganoxie, Kans, Jan. 14, 23; m. 49; c. 2. POLITICAL SCIENCE. B.A, Kansas, 44, univ. fel, 44-45, M.A, 45; Rotary fel, Edinburgh, 48-49; Ph.D.(polit. theory), Minnesota, 54. Asst. prof. POLIT. SCI, Ill. Wesleyan, 47-52, assoc. prof, 52-55; asst. prof, Okla. State, 55-59, assoc. prof, 59; WIS. STATE, EAU CLAIRE, 59-60, PROF. & CHMN. DEPT, 60- Comparative European government, especially political institutions of Great Britain; analysis of comparative foreign policies of major European powers. Publ: Co-auth, Section on Great Britain in comparative foreign government. Address: Dept. of Political Science, Wisconsin State University, Eau Claire, Wis. 54701.

GIBBONS, DR. CHARLES C(REW), b. Lost Springs, Wyo, June 21, 16; m. 49; c. 1. PSYCHOLOGY. B.S, Ohio, 37, fel, 37-38, M.A, 38; Ph.D.(indust. psychol), Ohio State, 42. Asst. psychol, Ohio State, 38-42; indust. psychologist, Owens-Ill. Glass Co, Ohio, 42-43, dir. personnel res, 43-45; indust. prog. dir, Upjohn Inst. Community Res, 45-56, ADMIN. RES. CONSULT, UPJOHN CO, 56- Fel. Psychol. Asn. Management research; employer-employee communications; business stabilization techniques. Publ: Employee attitudes and productivity, Mich. Bus. Rev; co-auth, Full employment in your community & co-ed, Business action in a changing world, Pub. Admin. Serv. Address: Upjohn Co, Portage Rd, Kalamazoo, Mich. 49001.

GIBBONS, DR. JEAN DICKINSON, Math. Statist, see 11th ed, Phys. & Biol. Vols.

GIBBONS, WILLIAM J(OSEPH), S.J, b. Ardmore, Pa, Oct. 5, 12. ECONOMICS, DEMOGRAPHY. A.B, Woodstock Col, 36, Ph.L, 37, S.T.L, 44; B.S, Drexel Inst, 38; Ph.D.(econ), N.Y. Univ, 66. Assoc. ed, America, 45-48; consult, displaced persons resettlement, Nat. Cath. Welfare Conf, 49-53; instr. econ, Loyola Col.(Md), 53-56, asst. prof, 56-57; vis. lectr. demog, FORDHAM, 55-61, PRIN. INVESTR. NAT. SCI. FOUND. RES. GRANT & DIR. MANPOWER RES. PROJ, 63- Econ. Asn; Sociol. Asn; Pop. Asn; Agr. Econ. Asn; Statist. Asn; Int. Union Sci. Study Pop; Int. Asn. Agr. Econ. Scientific and high-level manpower, especially in developing regions; economic development; improvement of agricultural production; food supply; population growth trends; urbanization. Publ: Growth trends in Latin American populations; Economic and demographic factors in improving living levels in Caribbean, Rev. Soc. Econ, 3/67; Population, In: New Cath. Encyclop, 67. Address: Fordham University, Bronx, N.Y. 10458.

GIBBS, DR. CHARLES B(ERNARD), Eng, Psychol, see 11th ed, Phys. & Biol. Vols.

GIBBS, PROF. GEORGE, b. Boston, Mass, May 31, 10; m. 42; c. 4. ECONOMICS. A.B, Pomona Col, 31; Harvard, 31-32; fel, California, 35-39, Ph.D. (econ), 55. Instr. econ, California, 35-39, asst. pub. admin, 39-40; instr. acct, Ore. State Col, 40-41; acct, Lybrand, Ross Bros. & Montgomery, 45-46; treas. off, Nat. Theatres Amusement Co, Inc, 47-49; PROF. ECON. & ACCT, CLAREMONT MEN'S COL, 49- Treas, Episcopal Diocese of Los Angeles, 48-; private practice, 49- U.S.N.R, 42-45, Lt. Comdr. Econ. Asn; Am. Acct. Asn; Inst. Cert. Pub. Acct. Economic basis for cost accounting analysis; ethics of professional client relationships; equitable bases of federal and local taxation. Publ: Manual for parish treasurers; New cost accounting concepts, Acct. Rev; Spiritualities and temporalities, Living Church. Address: Claremont Men's College, Claremont, Calif. 91711.

GIBBS, PROF. HUBERT S, b. La Crosse, Wis, Oct. 7, 17; m. 39. POLITICAL SCIENCE. A.B, Iowa, 39; A.M, Minnesota, 40; Ph.D, Hopkins, 52. Mem. faculty, Emmetsburg Jr. Col, 41-43; instr, Allegheny Col, 43-44; asst. prof, Hastings Col, 46-48; asst, Hopkins, 48-50; instr. Am. for. rels, BOSTON, 50-52, asst. prof. GOVT, 52-56, assoc. prof, 56-58, PROF, 58-, CHMN. DEPT, 56- Dir. overseas progs, Boston, 67- U.S.N, 44-46. Polit. Sci. Asn. American politics and foreign policy. Publ: Co-auth, Problems in international relations. Address: College of Liberal Arts, Boston University, Boston, Mass. 02215.

GIBBS, PROF. JACK P(ORTER), b. Brownwood, Tex, Aug. 26, 27; m. 61. SOCIOLOGY. B.A, Texas Christian, 50, M.A, 52; Fulbright fel, N.Z. Ed. Found, 52-53; Ph.D, Oregon, 57. Res. sociologist, California, 57-59, lectr, 58-59; asst. prof. sociol, Texas, 59-61, assoc. prof, 61-63, prof, 63-65, assoc. dir. pop. res. center, 60-63; prof. SOCIOL, Washington State, 65-67, chmn. dept, 66; PROF. TEXAS, 67- Russell Sage fel, 64-65. Sociol. Asn; Pop. Asn. Ecology; deviant behavior; social control; sociology of law; demography. Publ: Urban research methods, Van Nostrand, 61; co-auth, Status integration and suicide, Univ. Oregon, 64; auth, Suicide, Harper, 68. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

GIBBS, PROF. JAMES L(OWELL), JR, b. Syracuse, N.Y, June 13, 31; m. 56; c. 1. ANTHROPOLOGY. B.A, Cornell, 52; Woodrow Wilson fel, Harvard, 52-53, Rotary Found. fel, 53-54, univ. fel, 54-56, 58-59, Ford Found. fel, 56-58, Nat. Sci. Found. fel, 58-59, Ph.D.(soc. anthrop), 61. Instr. ANTHROP, Minnesota, Minneapolis, 59-60, asst. prof, 60-65; ASSOC. PROF, STANFORD, 65- Fel. Am. Anthrop. Asn; fel. African Studies Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland; Int. African Inst. Social anthropology; primitive law; social organization; African ethnology; culture and personality. Publ: Men of the machete carve a modern world, Minn. Alumni News; Marital instability among the Kpelle: towards a theory of epainogamy, Am. Anthropologist. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

GIBBY, DR. ROBERT G(WYN), b. Mardy, Wales, June 28, 16; nat; m. 37; c. 2. CLINICAL PSYCHOLOGY. B.A, Ohio State, 37, M.A, 39; fel. & Ph.D.(psychol), Michigan, 50. Lectr. psychol, Michigan, 49-53; assoc. prof, Purdue, 53-55; CHIEF PSYCHOLOGIST, VET. ADMIN. HOSP, RICHMOND, VA, 55- Chief clin. psychologist & chief clin. psychol. training unit, Vet. Admin. Hosp, Marion, Ind, 54-55. Consult, U.S. Pub. Health Serv. Hosp, 52-53. Projective techniques; personality theory; psychotherapy. Publ: Child, growth and development; Patterns of abnormal behavior; co-auth, Mentally retarded child, 2nd ed, Allyn & Bacon, 65. Address: 8023 Lake Shore Dr, Bon Air, Va. 23235.

GIBSON, DR. DAVID, b. Galt, Ont, Apr. 6, 26; m. 61. DEVELOPMENTAL PSYCHOLOGY. B.A, Toronto, 50, M.A, 52, Ph.D, 60. Chief psychologist, Ont. Hosp. Sch, 52-60; res. psychologist, Children's Psychiat. Res. Inst, London, Ont, 60-62; PROF. PSYCHOPHYSIOL, CALGARY, 63- Dir. res. Voc. Rehab. Res. Inst, Alta, 66- Ed-in-chief, Can. Psychologist, 66- Mem. Coun. Except. Children, 54. Psychol. Asn; fel. Asn. Ment. Deficiency; Can. Psychol. Asn. Investigations of psychological, educational and genetic variables in mental subnormality; psychophysiology of cognition; human development. Publ: Culture as a contributor to feeblemindedness & Dimensions of mongolism, Am. J. Ment. Deficiency; C.V.S. change & mental work gradient, Psychonomic Sci, 66. Address: Dept. of Psychology, University of Calgary, Calgary, Alta, Can.

GIBSON, PROF. DUANE L, b. South Hartford, N.Y, Aug. 22, 10. SOCIOLOGY. B.S, Cornell, 34, Ph.D, 40. From instr. to asst. prof. SOCIOL. MICH. STATE, 38-43, assoc. prof, 46-55, PROF, 55-, DIR. INST. COMMUNITY DEVELOP, 63-, asst. dean continuing ed, 55-63. Price res. & surv. officer, Off. Price Admin, 43-44. U.S.N.R, 44-46, Lt. Comdr. Sociol. Asn; Rural Sociol. Soc; Soc. Study Social Probs; Govt. Res. Asn. Social psychology, research methods and community studies. Publ: Co-ed. Readings in sociology, first ed, 52, sec. ed, 60, third ed, 67, Crowell; auth, Socio-economic evolution in a timbered area in northern Michigan; Youth and the world of work. Address: Dept. of Sociology, Michigan State University, East Lansing, Mich. 48823.

GIBSON, PROF. EDWARD H(IRAM), III, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GIBSON, DR. ELEANOR JACK, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GIBSON, PROF. FRANK KENNETH, b. Morgantown, W.Va, Jan. 10, 24; m. 46; c. 2. POLITICAL SCIENCE. A.B. & M.A, West Virginia, 47; Ph.D, North Carolina, 53. Instr. polit. sci, West Virginia, 52-53; asst. prof. polit. sci. & res. assoc, Virginia, 53-59; assoc. prof. POLIT. SCI, GEORGIA, 59-66. PROF, 66-, dir. bur. pub. admin, 57-58. Lectr, U.S. Civil Serv. Cmn. Seminars, 63- Admin. consult, Ga. Parole Bd, 64-66. Mem, Comp. Admin. Group, 62- U.S.A.A.F, 42-44, Sgt. Polit. Sci. Asn; Soc. Pub. Admin. Behavioral aspects of public and municipal administration. Publ: Co-auth, Public administration, 66 & Managerial behavior and organizational demands, 67, Rand McNally; auth, Parole in Virginia. Address: Dept. of Political Science, University of Georgia, Athens, Ga. 30601.

GIBSON, DR. GORDON D(AVIS), b. Vancouver, B.C, June 22, 15; U.S. citizen; m. 38; c. 2. ANTHROPOLOGY. A.B, Chicago, 37, M.A, 50, Ph.D.(anthrop), 52. Instr. math, Kalamazoo Col, 43-44; anthropometrist, U.S. Dept. Agr, 44-45; statistician, U.S. Dept. Navy, 45-46; instr. anthrop, Chicago, 54-55; asst. prof, Utah, 55-58; assoc. curator, U.S. NAT. MUS, SMITHSONIAN INST, 58-67, CURATOR ETHNOL, 67- Soc. Sci. Res. Coun. fel, 52-53; Nat. Sci. Found. res. fel, 57, 60-61. Fel. Anthrop. Asn; African Studies Asn; Ethnol. Soc. African ethnology; Bantu social organization; serial-lag correlation. Publ: Double descent and its correlates among the Herero of Ngamiland, Am. Anthropologist; Herero marriage, Rhodes-Livingstone J. Address: Division of Old World Anthropology, U.S. National Museum, Washington, D.C. 20560.

GIBSON, PROF. JAMES J(EROME), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

GIBSON, DR. JAMES L(AWRENCE), b. Junction City, Ky, Aug. 10, 35; m. 60; c. 1. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Centre Col, 57; M.B.A, Kentucky, 59, Ph.D, 62. Instr. econ, Kentucky, 61-62; asst. prof. mgt, Arlington State Col, 62-63; ASSOC. PROF. econ, Centre Col, 63-66; BUS. KENTUCKY, 66- Nat. Guard, 53-61. Econ. Asn; Soc. Adv. Mgt; Am. Acct. Asn. Managerial accounting and business economics, especially the exact position of accounting data in decision-making. Publ: Co-auth, Role of accounting in small business decisions; auth, Accounting in decision making, Acct. Rev, 63; Organization theory & nature of man, Acad. Mgt, 66. Address: College of Business & Economics, University of Kentucky, Lexington, Ky. 40506.

GIBSON, DR. JANICE T(HORNE), b. Hartford, Conn, Feb. 26, 34; m. 57; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Connecticut, 55; M.A, Brown, 57; Dupont fel, Virginia, 59, Ed.D.(ed. psychol), 62. Res. psychologist, sch. med, Virginia, 58-60; ASST. PROF. PSYCHOL, PITTSBURGH, 62- Prin. investr, proj. S-206 contract, Dept. Health, Ed. & Welfare, 65-66. Consult, Allyn & Bacon Pub. Co, 63; Prentice-Hall Pub. Co, 64; Action Housing, Inc, 64-65. Psychol. Asn; Soc. Res. Child Develop. Usefulness of programed learning in teaching of reading and other subject matters; variables, including ability level and degree of cultural advantage. Publ: Co-auth, Group reinforcement of individual responses, In: Conformity and deviation, Harper, 61; auth, Educational psychology, Appleton, 3/68; The effects on retention of programed classroom reviews, J. Ed. Res, 7-8/65. Address: Dept. of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15213.

GIBSON, JEROME H(INES), b. Passaic, N.J, July 29, 07; m. 38; c. 1. PSYCHOLOGY. A.B, Col. Holy Cross, 27; Xavier (Ohio), 29-30; St. Louis, 30-32; Chicago, 40-41, summers, 36-38. Instr. psychol, Dayton, 36-37, asst. prof, 37-38, prof. & head dept, 38-46; dir. guid. & staff adv, Dayton Bd. Ed, Ohio, 46-48; mem. staff prfnl. employ. & placement div, SANDIA CORP, 51, supvr. personnel develop. & results div, 51-54, personnel res. & testing div, 54-59, personnel testing & staff functions div, 59-62, clin. psychol. div, 62-65, STAFF PSYCHOLOGIST MED. SERV, 65- Area dir. eng, sci. & mgt. war training prog, Antioch Col, Ohio State, Miami (Ohio) & Dayton, 43-45; dir, Vet. Admin. Guid. Center, Dayton, Ohio, 46-48; lectr, St. Joseph's Col. (N.Mex), 51-52; lectr, A.F. Non Commissioned Officer's Acad, Kirtland Air Force Base, 65-66; vis. assoc. prof, New Mexico, 65-66. Mem, Gov. Adv. Cmt. Ment. Health, N.Mex, 56-58; Gov. Invest. Cmt. State Sch. Ment. Retard, 57; Govt. Steering Cmt. Statewide Comprehensive Ment. Health Serv, 64- Psychol. Asn; Psychomet. Soc; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed; Voc. Guid. Asn; Am. Rehab. Counseling Asn. Psychological testing; psychotherapy-individual and group; industrial mental health programs; psychosomatic medicine; organization theory. Publ: Pros and cons of testing for personnel evaluation, Proc. Nat. Conf. Am. Inst. Indust. Engrs. Address: 7705 Marble Ave. N.E, Apt. 21, Albuquerque, N.Mex. 87110.

GIBSON, DR. J(OSHUA) SULLIVAN, b. Bend, Tex, Apr. 26, 01; m. 37. GEOGRAPHY. A.B, Abilene Christian Col, 26; Ph.M, Wisconsin, 29; Ph.D. (geog), Clark, 34. Prof. geog, Abilene Christian Col, 26-28; teacher, West. Ky. State Teachers Col, 30-32; assoc. geogr, Tenn. Valley Authority, 34-37; prof. geog. & head dept, Ala. State Teachers Col, Livingston, 37-42; assoc. instr. aerology & climatol, U.S. Naval Reserve, 42-43; asst. prof. geog, Indiana, 43-44; assoc. prof, Miss. State Col. for Women, 44-45; asst. prof, Wisconsin, 45-47; assoc. prof, North Carolina, 47-66; vis. prof, Indiana State, 66-68; RETIRED. Estab. Gibson Res. Fund Agr. Geog, administered by Asn. Am. Geog, 65. Asn. Am. Geog; fel. Am. Geog. Soc; Nat. Coun. Geog. Ed. Land utilization; climatology; soils geography. Publ: Land economy of Warren County, Kentucky; Alabama Black: its geographic status; Soils of the Tennessee Valley. Address: 734 W. Main, Carrboro, N.C. 27510.

GIBSON, DR. LYLE E(DGAR), b. Montfort, Wis, Mar. 1, 13; m. 38; c. 2. GEOGRAPHY. B.E, Wis. State, Platteville, 35; Ph.M, Wisconsin, 43; Ph.D. (geog), Iowa, 47. Assoc. commerce, army specialized training prog, Iowa, 43-46, instr. geog, 46-48; from asst. prof. to prof. & head dept, San Francisco State Col, 48-62; V.PRES, ACAD. AFFAIRS, CALIF. STATE COL. DOMINGUEZ HILLS, 62- AAAS; fel. Geog. Soc; Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic characteristics of regional margins; teaching of geography. Publ: A workbook for introduction to geography, Pac. Books, 61; Planning geography in the curriculum of a new college, The Calif. Geogr, 66; ed, Improving the education of teachers of geography, In: A report of the geography advisory panel, Statewide social sciences study committee, Calif. State Dept. Ed, 67. Address: California State College, Dominguez Hills, 809 E. Victoria St, Dominguez Hills, Calif. 90247.

GIBSON, DR. RALPH M(ILTON), b. Cleveland, Ohio, Oct. 5, 23; m. 47; c. 1. CLINICAL PSYCHOLOGY. B.S, Michigan, 45, M.S, 47, U.S. Pub. Health Serv. fel, 52-53, Ph.D.(psychol), 59. Chief psychologist, Cleveland Guid. Center, Ohio, 47-52; instr. PSYCHOL, MICHIGAN, 55-63, asst. prof, MED. SCH, 63-65, ASSOC. PROF, 65- Consult, Mich. Children's Inst, 58-59; Bd. Ed, Washtenaw County, 59-60; Mich. Children's Aid Soc, 58-60; pediat. psychol. consult, Wayne Co. Gen. Hosp, 63- AAAS; Psychol. Asn; Orthopsychiat. Asn. Effect of hospitalization and surgery upon personality development in children; psychological test appraisal of organic brain pathology in children; ego development of blind infants; conceptual development in children. Publ: Trauma in early infancy and later personality development, Psychosom. Med, 5-6/65; Intellectual assessment of children, Univ. Michigan Med. Center J, 9-10/66; co-auth, The role of audition in the development of the abject concept in congenitally blind infant, Psychoanal. Study Child, 1/67. Address: Dept. of Pediatrics, University of Michigan Medical School, Ann Arbor, Mich. 48104.

GIBSON, DR. ROBERT CARLTON, b. Celina, Ohio, Sept. 1, 24; m. 56. POLITICAL SCIENCE. B.Sc, Ohio State, 48, M.A, 57, Ph.D.(polit. sci), 61. Asst. POLIT. SCI, Ohio State, 56-60; instr, Kentucky, 60-61; asst. prof, West Virginia, 61-66; ASSOC. PROF, OHIO STATE, 66- Summer faculty Senate award, West Virginia, 64. Summer consult, Civil Defense Corp, Ohio, 57. Sig.C, 43-46, Sgt. Polit. Sci. Asn. Political theory and behavior; American government. Address: 104 Cheshire Circle, Lima, Ohio 45804.

GIBSON, DR. ROBERT H, Exp. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GIBSON, DR. ROBERT L(EONE), b. New Castle, Pa, Mar. 1, 27; m. 48; c. 2. PSYCHOLOGY. B.S, Allegheny Col, 50; M.S, Pa. State, 51, Ph.D, 55. Intern psychol, Vet. Admin, Pa. State, 51-55, chief psychologist, Vet. Admin. Regional Off, Ky, 55-56, supvry. psychologist, Vet. Admin. Hosp, Marion, Ind, 56-57; chief psychologist, Anclote Manor Psychiat. Hosp, Tarpon Springs, Fla, 57-60; CONSULT, STATE FARM & PRISON FOR WOMEN, CONN, 61-; ASST. DIR. PSYCHOL. DEPT, NORWICH HOSP, 61- Instr, sch. med, Louisville, 55-56; private consult, 59-61. U.S.A.A.F, 44-48. Psychol. Asn; Soc. Proj. Tech. Process of psychotherapy and criteria measuring change in personality; general psychopathology; projective techniques; group therapy; group discussion to liberate therapeutic potentials of ancillary hospital disciplines. Publ: Co-auth, Coaction map of the personalities described by H. Rorschach and S.J. Beck, J. Proj. Tech. & Factor analysis of measures of change following client-centered therapy, J. Counseling Psychol. Address: R.D. 5, Norwich, Conn. 06360.

GIBSON, PROF. ROLAND, b. Potsdam, N.Y, Feb. 4, 02. ECONOMICS. A.B, Dartmouth Col, 24; M.A, Columbia, 40, Ph.D.(econ), 47. Instr. indust. rels, Pa. State, 41-42; lectr. econ, Rutgers, 46-47; asst. prof, Illinois, 48-56; assoc. prof, North Dakota, 56-59; prof. & chmn. dept. econ. & sociol, Washington Col, 59-67; PROF. ECON, NEW HAMPSHIRE COL. ACCT. & COMMERCE, 67- Pres, Roland Gibson Art Found. U.S.A, 42-45, Capt. Econ. Asn. Soviet economy; comparative economic systems. Publ: Cotton textile wages in the United States and Great Britain, 1860-1945; British labor's record, Am. J. Econ. & Sociol; Recent technological progress in the Soviet Union, Soc. Res. Address: Page's Corner, R.F.D. 2, Concord, N.H. 03301.

GIBSON, THEODORE T(HOMAS), JR, b. Niagara Falls, N.Y, May 5, 17; m. 42; c. 2. GEOGRAPHY. B.S, Michigan, 41, M.A, 61. Res. analyst GEOG, Library of Cong, 49-56; res. assoc, Willow Run Labs, Michigan, 56-60; RES. ANALYST, U.S. Dept. Navy, WASH, D.C, 60-62; U.S. DEPT. AIR FORCE, 62- U.S.A.F, 42-46, Res, 46-, Lt. Col. Asn. Am. Geog. Geography of the Middle East and the Soviet Union. Address: 3712 Marlbrough Way, College Park, Md. 20740.

GIBSON, DR. WELDON B(AILEY), b. Eldorado, Tex, Apr. 23, 17; m. 41; c. 2. BUSINESS ECONOMICS. B.A, Wash. State Col, 38; M.B.A, Stanford, 40, Ph.D.(indust. mgt), 49. Dir. econ. res. & int. res, STANFORD RES. INST, 47-56, assoc. dir, 56-59, v.pres, 59-60, EXEC. V.PRES, 60- Lectr, grad. sch. bus, Stanford, 48-53. Consult, U.S. Bur. Budget, 50-51. U.S.A.A.F, 41-47, Col; Legion of Merit, 46. AAAS; Econ. Asn; Geog. Soc. Economic geography; industrial and techno-economics; transportation. Publ: Co-auth, Global geography & World political geography. Address: 593 Gerona Rd, Stanford, Calif. 94305.

GIBSON, DR. W(ILFRED) A(LAN), b. New Castle, Pa, Feb. 1, 23; m. 46; c. 4. PSYCHOLOGY. B.S, Westminster Col, 47; Ph.D, Chicago, 51. Asst. prof. psychol, Illinois, 50-52; assoc. prof. psychol. & proj. supvr, psychomet. lab, North Carolina, 52-54; fel, Center Adv. Study Behav. Sci, 54-55; res. psychologist, human factors res. br, Adj. Gen's. Off, U.S. Dept. Army, 55-63; PROF. PSYCHOL, QUEENS COL. (N.Y), 63- Soc. Sci. Res. Coun. travel grant, Int. Cong. Appl. Psychol, Copenhagen, 61. U.S.A, 43-46. Psychol. Asn; Psychonomic Soc; Psychomet. Soc; Statist. Asn. Psychometrics; measurement models. Publ: Three multivariate models: factor analysis, latent structure analysis and latent profile analysis, On the symmetric treatment of an asymmetric approach to factor analysis & Theory and application of Gramian factoring, Psychometrica. Address: Dept. of Psychology, Queens College, Kissena Blvd, Flushing, N.Y. 11367.

GIBSON, PROF. W(ILLIAM) L(LOYD), JR, b. Lynchburg, Va, Jan. 22, 10; m. 33. NATURAL RESOURCES, ECONOMICS. B.S, Va. Polytech, 33, M.S, 34; Wisconsin, 41-42; Ph.D. (rural econ), Virginia, 45. Instr. agr. econ, VA. POLYTECH, 34-38, asst. agr. economist, 39-40, assoc. land economist, 40-47, PROF. AGR. ECON, 47- Agr. Econ. Asn; Asn. Evolutionary Econ. Farm income and costs of production; land classification and utilization; inheritors of farm property; incidence and equity of real property taxation; land tenure and resource allocation. Publ: Co-ed, Methods for land economics research, Univ. Nebraska, 11/66; co-auth, Incidence of benefits and cost of government programs in agriculture, Va. Agr. Exp. Sta, 10/66 & Farm tenure and resource adjustments, Bull, 2/67. Address: Dept. of Agricultural Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

GIDDENS, DR. JACKSON A(LFRED), b. Meadville, Pa, Oct. 17, 35. POLITICAL SCIENCE. B.A, Allegheny Col, 58; M.A, Fletcher Sch. Law, 59, M.A.L.D, 60, Ph.D.(U.S. for. rels), 63. Instr. polit. sci, Allegheny Col, 61; ASST. PROF. res, American Univ, 63-64; POLIT. SCI, MASS. INST. TECH, 66- MEM. SR. STAFF, CENTER INT. STUDIES, 67- U.S.A, 54-57. Polit. Sci. Asn; Soc. Historians of Am. For. Rels. American propaganda overseas. Address: Dept. of Political Science, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

GIDDENS, PRES. PAUL H(ENRY), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GIDDON, DR. DONALD BERNARD, b. Newark, N.J, May 1, 30; m. 55; c. 4. PSYCHOLOGY, DENTISTRY. A.B, Brown, 52; A.M, Boston, 53; U.S. Pub. Health Serv. summer fels, Harvard, 56-58, D.M.D, 59; Ph.D.(psychol), Brandeis, 61. Res. asst, sch. dent. med, Tufts, 52-53, res. assoc, 54-55; teaching asst. psychol, Pennsylvania, 53-54; teaching fel, Brandeis, 54-59; U.S. Pub. Health Serv. trainee, sch. dent. med, Harvard, 59-62 & fel, 62-63, instr. dent. med, 62-63, assoc. ecol. dent, 63-64; assoc. prof. soc. dent, SCH. DENT. MED, TUFTS, 64-67, PROF. SOC. DENT. & ASST. DEAN ADV. ED. & PROG. DEVELOP, 67-, CHMN. DEPT, 64-; DENTIST-IN-CHIEF SOC. DENT. DEPT, NEW ENG. MED. CENTER HOSPS, 67- U.S. Pub. Health Serv. res. fel. psychol, Brandeis, 59-60, instr, 60-62, lectr, 62-63, adj. asst. prof, 63-65, adj. lectr, 65-; res. dentist, univ. health serv, Harvard, 62-63, lectr, sch. dent. med, 64-; center continuing ed, Northeastern, 64-; Forsyth Sch. Dent. Hygienists, 67- Dentist-in-chief, Boston Dispensary & Rehab. Inst, New Eng. Med. Center, 64-66. Consult, Astra Pharmaceut. Prod, Inc, 60-; chmn. res. & recruiting cmts, sch. dent. med, Tufts, 64-, dir. community progs, 67-; mem. consult. cmt, dept. ment. health, Commonwealth of Mass, 65-; oral disease res. prog. eval. cmt, Vet. Admin, 66-; cmt. prog. develop, Am. Asn. Dent. Schs, 67-72; task force behav. sci. indexing, Nat. Library Med, cmt. dent. res, Conn. Dept. Ment. Health & med. cmt, Crittenton Hastings House, 67-; ad hoc reviewer, U.S. Pub. Health Serv, 67- Fel. AAAS; Statist. Asn; Biomet. Soc; Psychol. Asn; Psychosom. Soc; Soc. Psychophysiol. Res; Am. Dent. Asn; Pub. Health Asn; Int. Asn. Dent. Res; hon. mem. Korean Dent. Asn; Int. Dent. Fedn. Psychophysiology and psychosomatic medicine and dentistry; dental education; socioeconomic aspects of health care. Publ: Co-auth, Cholinesterase-like substance in the parotid saliva of normal and psychiatric patients, Lancet, 1: 725-26 &

Ecological dentistry as a term to include dental public health, practice management and social sciences, J. Dent. Ed, 27: 81-3; auth, Psychophysiology of the oral cavity, J. Dent. Res, 45: 1625-36. Address: Dept. of Social Dentistry, Tufts University School of Dental Medicine, 136 Harrison Ave, Boston, Mass. 02111.

GIDEONSE, PROF. HARRY D(AVID), b. Rotterdam, Netherlands, May 17, 01. ECONOMICS. B.S, Columbia, 23, A.M, 24, LL.D, 54; Dipl, Geneva, 28; LL.D, St. Lawrence, 43, Western Reserve, 46; L.H.D, Hebrew Union Col, 53, Hawaii, 55. Lectr. econ, Columbia, 24-26; dir. int. student work, Geneva, 26-28; asst. prof. econ, Rutgers, 28-30; assoc. prof, Chicago, 30-38; prof, Columbia, 38-39, chmn. dept, Barnard Col, 38-39; pres, Brooklyn Col, 39-66; PROF. ECON. & CHANCELLOR, NEW SCH. SOC. RES, 66- Am. Ed, Rev. Econ. Int, 28-41. Exec. v.pres, Economist's Nat. Cmt. Monetary Policy, 37-46. Publ: International bank: America in a world economy, 30; Against the running tide, Twayne, 67. Address: New School for Social Research, 66 W. 12th St, New York, N.Y. 10011.

GIDEONSE, DR. HENDRIK DAVID, b. Chicago, Ill, Oct. 2, 36; m. 66. EDUCATION, HISTORY. A.B, Amherst Col, 58; Amherst Mem. fel, Harvard, 58-59, Ed.M, 59, Ed.D.(hist. & philos), 63. Instr. ed, Bowdoin Col, 63-64; specialist soc. sci, div. ed. res, U.S. OFF. ED, 64-65, prog. adv. ed. res, 65, dir. prog. planning & develop. staff, BUR. RES, 65-67, DIR. PROG. PLANNING & EVAL. STAFF, 67- AAAS; Ed. Res. Asn. History of education; educational research and development; education planning. Address: 217A 10th St, S.E, Washington, D.C. 20003.

GIDEONSE, PROF. MAX, b. Rotterdam, Netherlands, Apr. 24, 04; nat; m. 31; c. 2. ECONOMICS. A.B, Rochester, 25, A.M, 26; Amherst Mem. fel, 29-30; Ph.D, Harvard, 32. Asst, Rochester, 25-26; Harvard, 27-29; asst. prof. ECON, RUTGERS, 30-40, assoc. prof, 40-45, PROF, 45- Asst. chief & adv, off. spec. polit. affairs, U.S. Dept. State, 43-46. Consult, President's Mat. Policy Cmn, 51. Econ. Asn; Econ. Hist. Asn; Acad. Polit. Sci. International economic relations. Address: Dept. of Economics, Rutgers, The State University, New Brunswick, N.J. 08903.

GIEBER, PROF. WALTER, b. New York, N.Y, Aug. 22, 16; m. 45; c. 2. MASS COMMUNICATION. B.A, Rutgers, 37; M.A, Northwestern, 47; Ph.D. (mass commun), Wisconsin, 56. Reporter, San Francisco Chronicle, 48-50; copy reader, Wis. State J, 50-52; asst. prof. JOURNALISM, Indiana, 52-55; California, 55-62; PROF, SAN FRANCISCO STATE COL, 62- U.S.A, 42-46, 1st Lt. Fel. Sociol. Asn; Asn. Ed. Journalism. Mass communications research with concentration on sociology of the journalist. Publ: "I" am the news, Scripps-Howard Res, 63; Attributes of reporters role, 66; News is what newsmen make it, People, Soc. & Mass Commun, 64. Address: 620 Coventry Rd, Kensington, Calif. 94707.

GIEBINK, DR. JOHN W(ILLIAM), Psychol, see 10th ed, Soc. & Behav. Vols.

GIEDT, DR. F(RANCIS) HAROLD, b. Kityang, China, Oct. 24, 24; U.S. citizen; m. 50; c. 2. PSYCHOLOGY. A.B, Redlands, 47; Ph.D.(psychol), California, Los Angeles, 51. Trainee clin. psychol, Training Unit, Vet. Admin, Los Angeles, Calif, 47-51, staff clin. psychologist, Ment. Hyg. Clin, San Francisco, 51-53, asst. chief clin. psychologist for res, Hosp, Perry Point, Md, 53-55; chief res. sect, Clin. Psychol. Serv, Sepulveda, Calif, 55-61; dir. res, dept. psychiat, South. Calif. Permenente Med. Group, Los Angeles, 61-65; ASSOC. PROF. psychol, SAN FERNANDO VALLEY STATE COL, 65-67, HEALTH SCI, 67-, CLIN. PSYCHOLOGIST, COUNSELING CENTER, 67- Assoc. prof, California, Los Angeles, 55-61; clin. psychologist, Golden State Community Ment. Health Center, 66-67. Consult, Camarillo State Hosp; Metrop. State Hosp, Norwalk, Calif, 64- U.S.M.C, 43-46. Psychol. Asn. Current diagnostic schemes for mental disorders; new test procedures for more effective predictive instruments; treatment programs of a therapeutic melieu sort. Publ: Comparison of visual content and auditory cues in interviewing, J. Consult. Psychol; co-auth, Report on the validity of the Rorschach prognostic rating scale, J. Proj. Tech. Address: 11330 Jellico Ave, Granada Hills, Calif. 91344.

GIES, PROF. THOMAS G(EORGE), b. Detroit, Mich, Jan. 12, 21; m. 41; c. 3. ECONOMICS. A.B, Michigan, 46, fel, 46-49, M.A, 48, Ph.D.(econ), 52. Financial economist, Fed. Reserve Bank of Kansas City, Mo, 51-57; assoc. prof. FINANCE, MICHIGAN, 57-61, PROF, 61- Chmn, Governor's Cmt. Revision of Mich. Financial Code, 59-60, mem, Governor's Cmt. Econ. Develop, 60. U.S.A.A.F, 43-44; U.S.A, 44-46. Econ. Asn; Finance Asn. Money and credit, especially portfolio policy and regulation of private financial institutions; government finance; business cycles and forecasting. Publ: Co-auth, Public utility regulation: new directions in theory and policy, Random, 66; Portfolio regulations and policies of financial institutions; Consumer finance companies in Michigan. Address: School of Business Administration, University of Michigan, Ann Arbor, Mich. 48104.

GIESBRECHT, DR. MARTIN G, b. Newark, N.J, Aug. 25, 33; m. 57; c. 2. ECONOMICS. B.A, Rutgers, 55; Harvard, 55-56; Fulbright grant & Ph.D. (pub. econ), Munich, 58. Asst. prof. ECON. & BUS. WILMINGTON COL. (OHIO), 58-66, ASSOC. PROF. & CHMN. DEPT, 66- Summers, res. grants, Ford Found, Indiana Univ, 62 & Gen. Elec. Found, Univ. Chicago, 66, res. fel, Seminar on Modernization in Taiwan, 67. Bavarian Ministry of Culture & Ed. Award, 58. Econ. Asn; Economet. Soc. Value theory and analysis; socioeconomic behavior analysis; pedagogy of economics. Publ: Die Rolle des Automobils im amerikanischen Sozialleben; Value and its creation, Proc. Ohio Asn. Economists & Polit. Scientists; Entrepreneurs vs. modern management, In: Business topics, Mich. State Univ, 68. Address: Dept. of Economics & Business, Wilmington College, Wilmington, Ohio 45177.

GIESE, DR. DAVID L(YLE), b. Wells,Minn, Aug. 18, 33; m. 58; c. 4. EDUCATIONAL PSYCHOLOGY. B.S, Minnesota, 55, M.A, 58, Ph.D.(ed. psychol), 65. ASST. PROF, DIV. NATURAL SCI. & MATH. & COORDINATOR RES, GEN. COL, MINNESOTA, MINNEAPOLIS, 65- Statist. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed; Psychomet. Soc. Statistics and measurement; linear model analysis, especially its applications to educational and psychological research. Address: General College, University of Minnesota, Minneapolis, Minn. 55455.

GIESE, DR. WILLIAM JAMES, b. Menominee, Mich, Apr. 16, 13; m. 38, 61; c. 2. PSYCHOLOGY. A.B, Lawrence Col, 36; M.S, Northwestern, 37; fel, Purdue, 41-42, Ph.D.(indust. psychol), 45. Psychologist, Pub. Serv. Co. North. Ill, 38-42; Off. Sci. Res. & Develop, 42-45; consult. psychologist, Stevenson, Jordan & Harrison, Inc, 45-46; CONSULT. INDUST. PSYCHOLOGIST, WM. J. GIESE & ASSOCS, 46- Vis. prof. mgt. & mkt, La. State, 63-64; assoc. dir. mgt. develop. center & prof. bus. admin, Richmond, 64-65. Consult. indust. psychologist, Wis, 38-39. AAAS; Psychol. Asn; Soc. Training & Develop; Acad. Mgt. Psychological test construction and validation; motivation research; executive assessment and development. Address: 2233 Monument Ave, Richmond, Va. 23220.

GIESEMAN, DR. RAYMOND WALTER, b. Lawrence, Kans, Jan. 22, 34. AGRICULTURAL & REGIONAL ECONOMICS. B.S, Kansas State, 55; M.S, Mich. State, 56; Ph.D.(agr. econ), N.C. State, 60. Asst. prof. econ, Kansas State, 60-64, assoc. prof, 64-65; regional economist, ECON. RES. SERV, U.S. DEPT. AGR, 65-67, GROUP LEADER BASIC GROWTH STUDIES, 67- Agr. Econ. Asn; Econ. Asn. Demand and price analysis; development of markets for farm products; analysis of growth and development in subareas of the national economy. Publ: Co-auth, Vice president's handbook for local officials: a guide to federal assistance for local governments; 11/67; Consumer demand explained by measurable utility changes, Econometrica, 7/63. Address: Economic Research Service, Economic Development Division, U.S. Dept. of Agriculture, Washington, D.C. 20250.

GIFFIN, PROF. ROSCOE, Sociol, Econ, see 10th ed, Soc. & Behav. Vols, deceased 62.

GIFFORD, PROF. GILBERT L(EE), b. Everett, Wash, Aug. 24, 03; m. 52; c. 2. ECONOMICS. Ph.D.(transportation, pub. utilities), Pennsylvania, 55. PROF. ECON. & TRANSPORTATION, ARIZONA, 55- Vis. prof, Washington (Seattle), 66. Econ. Asn; Soc. Traffic & Transportation. Transportation; public utilities. Publ: Transportation and utilities in Arizona, In: Arizona: its people and resources; Evolution of air mail rate making, J. Air Law & Commerce; Economic implications of proposed changes in transportation regulation legislation, Transportation J. Address: 2421 Indian Ridge Dr, Tucson, Ariz. 85715.

GIFFORD, DR. JAMES COLLIER, b. New York, N.Y, Aug. 17, 27; m. 52; c. 1. ANTHROPOLOGY. B.A, Arizona, 51, M.A, 57; Ph.D.(anthrop), Harvard, 63. Res archaeologist, Peabody Mus, Harvard, 63-64; ASST. PROF. ANTHROP. TEMPLE, 64- U.S.A, 53-55, Sgt. AAAS; Soc. Am. Archaeol; Anthrop. Asn; Soc. Hist. Tech. New world archaeology; archaeological theory; methods of laboratory analysis concerned with prehistoric material culture, especially ceramics; typological classifications and history of classification; development of social change in new world prehistory. Publ: Type-variety method of ceramic classification as an indicator of cultural phenomena, Am. Antiq. 25:341-347; co-auth, Pottery of the Holmul I style from Barton Ramie, British Honduras, In: Essays in Pre-Columbian art and archaeology, 61 & Prehistoric Maya settlements in the Belize Valley, Papers of the Peabody Mus, 65, Harvard. Address: Dept. of Anthropology, Temple University, Philadelphia, Pa. 19122.

GIFFORD, DR. WALTER SHERMAN, Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

GIGLIO, DR. ERNEST DAVID, b. New York, N.Y, Aug. 16, 31; m. 61; c. 2. POLITICAL SCIENCE, HISTORY. B.A, Queen's Col.(N.Y.), 53; M.A, State Univ. N.Y, Albany, 57; N.Y. State Regents fel, Syracuse, 62-63, D.S.Sc, 64. Instr. hist. & polit. sci, Dickinson Col, 63-65; ASST. PROF, POLIT. SCI, VILLANOVA, 65- U.S.A, 53-55. Hist. Asn; Polit. Sci. Asn. Motion picture censorship and obscenity determinations of books and films and comparative study of these in foreign countries. Publ: Prior restraint of motion pictures, Dickinson Law Rev, summer 65. Address: Dept. of Political Science, Villanova University, Villanova, Pa. 19085.

GIL, DR. DAVID G, b. Vienna, Austria, Mar. 16, 24; U.S. citizen; m. 47; c. 2. SOCIAL WELFARE. B.A, Hebrew Univ, Israel, 57; M.S.W, Pennsylvania, 57, D.S.W, 63. Sr. probtn. officer, youth probtn. serv, Ministry Soc. Welfare, Israel, 50-51, asst. dir, 51-53, 55-57, chief supvr, 55-57; UN fel. soc. welfare training, U.S, 53-55; family counsr. & family life educator, Jewish Family Serv, Pa, 57-59; supvr. & res. assoc, Asn. Jewish Children, Pa, 59-63; dir. res, Mass. Soc. Prev. Cruelty to Children, 63-64; asst. prof. child welfare, FLORENCE HELLER SCH. ADV. STUDIES SOC. WELFARE, BRANDEIS, 64-66, ASSOC. PROF. SOC. WELFARE, 66- Part-time lectr, Sch. Soc. Work, Hebrew Univ, Israel, 55-57. Prin. investr. nationwide epidemiol. study child abuse, Brandeis Children's Bur, 65-, Eval. of KLH Child Develop. Center, 67. Mem. panel experts, children's bur, welfare admin, Dept. Health, Ed. & Welfare, 66. Israeli Army, 48-49. Sociol. Asn; Nat. Asn. Soc. Workers; Orthopsychiat. Asn; Coun. Soc. Work Ed. Social welfare and education. Publ: Developing routine follow-up procedures for child welfare services, Child Welfare, 5/64; First steps in a nationwide study of child abuse, In: Social work practice, 1966, Columbia, 66; Research, a basic ingredient in the study of social policy and social services, J. Ed. Soc. Work, spring 68. Address: Florence Heller Graduate School, Brandeis University, Waltham, Mass. 02154.

GIL, PROF. FEDERICO G(UILLERMO), b. Havana, Cuba, Feb. 10, 15. POLITICAL SCIENCE. LL.D, Havana, 40, D.Polit.Sci, 41, dipl, 42. Instr, La. State, 42-43; POLIT. SCI, NORTH CAROLINA, 43-45, asst. prof, 45-49, assoc. prof, 49-55, prof, 55-66, KENAN PROF, 66-, DIR. INST. LATIN AM. STUDIES, 59-, assoc. dir, 47-59. Inst. Int. Ed. fel, 42; Rockefeller traveling fel, Latin Am, 44-45. Mem. nat. screening cmt, For. Area Fels, 66-68; summer participant in estab. of Inst. for Integration of Latin Am. as consult. to Inter-Am. Develop. Bank, 65- Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Asn. Latin Am. Studies. Latin-American governments and politics; Inter-American diplomatic relations. Publ: The political system of Chile, Houghton, 66; Instituciones y desarrollo político de Américana Latina, Instituto para la Integración de América Latina, 66. Address: Institute of Latin American Studies, 215 Murphey Hall, University of North Carolina, Chapel Hill, N.C. 27514.

GIL, DR. PETER PAUL, b. Dec. 7, 22; U.S. citizen; m. 49; c. 3. MANAGEMENT, BEHAVIORAL SCIENCE. A.B, Harvard, 49, M.B.A, 51; Ph.D.(econ, soc. sci), Geneva, 63. Lectr, McGill, 51-56; coordinator exec. prog, Alcan Industs, Ltd, Eng, 56-62; dir. exec. develop. progs, MASS. INST. TECH, 62-66, ASSOC. DEAN EXEC. PROGS, 66-, SR. LECTR, MGT, 62- Lectr, Jr. Chamber Commerce & mem. staff to convert sch. commerce to grad. sch. bus. admin, Laval, 51-56; lectr, Univ. Geneva & inst. Higher Studies Mgt, Barcelona, Spain, 56-62; asst. dir, Indust. Studies Center, Geneva, Switz, 56-62. Consult, Nat. Security Agency & Royal Can. Navy, 51-56; consult. to dir. IBM Exec. Develop. Prog, Netherlands, 56-62; various subsidiaries, Standard Oil Int, 63- Coun. For. Rels; Int. Univ. Contract Mgt. Ed; Inst. Mgt. Sci; Acad. Mgt. Applied behavioral science, especially superior-subordinate relationships and management development within the university and non-university organizations. Publ: Sloan program is 25 years old, Tech. Rev, 1/63; The fundamental organization unit: the superior-subordinate relationship, Defense Mgt. J, winter 67-68; co-auth, Science and management: two cultures?, J. Appl. Behav. Sci, 4/68. Address: Room 52-455, Massachusetts Institute of Technology, 50 Memorial Dr, Cambridge, Mass. 02139.

GILB, DR. CORINNE L(ATHROP), b. Lethbridge, Alta, Feb. 19, 25; m. 45; c. 2. POLITICAL SCIENCE. B.A, Washington (Seattle), 46; M.A, California, 51; Ph.D.(Am. civilization), Radcliffe Col, 57. Reader Eng, polit. sci. & psychol, Washington (Seattle), 43-47; asst. hist, California, 50-52, head regional cultural hist. proj, 53-57, asst. res. polit. scientist, inst. indust. rels, 56-59; instr. hist. & govt, Mills Col, 57-59, lectr, 59-61; ASSOC, CENTER STUDY LAW & SOC, CALIFORNIA, BERKELEY, 61- Soc. Sci. Res. Coun. grant-in-aid, 58; Mills Col. faculty res. grant, 60; part-time prof, San Francisco State Col, 64-68; vis. res. polit. scientist, inst. govt. studies, California, 67; Guggenheim fel, France & Yugoslavia, 67-68; vis. prof, Wayne State, 68-69. Consult, interim cmt. revenue & taxation, Calif. Assembly, 63-64; 20th Century Fund summer proj. soc. change, 67. Polit. Sci. Asn. Theory of organization, especially vocational organizations; group government relationships; political behavior; relationships between patterns of organization, power, authority, ideas, issues, epistemology, mass culture and the arts. Publ: Conformity of state personal income tax to federal income tax, Calif. Legis, 9/64; Hidden hierarchies: the professions and government, Harper, 5/66; Time and change in 20th Century thought, J. World Hist, 66. Address: 111 El Camino Real, Berkeley, Calif. 94705.

GILBERT, PROF. ALBIN R(UDOLPH), b. Prague, Czech, Sept. 3, 97; nat; m. 26; c. 1. PSYCHOLOGY. Ph.D.(ed, psychol), Charles Univ, Prague, 30. Prof. psychol. & ed, German Sect, State Conservatory Music & Dramatic Art, Prague, 31-38; ed. consult, Chapel Hill Sch, Mass, 39-41; lectr, Boston Conservatory Music, 41-44; spec. instr, civil affairs training sch, Army Spec. Training Prog, Boston Univ, 44-45; assoc. field rep, Off. War Info, 45; ed. adv, German-occupied zone, U.S. Dept. Army, 45-49; PROF. PSYCHOL, Wheaton Col.(Mass), 49-63; W.VA. WESLEYAN COL, 63- Dir. youth guid. clin, German Soc. Ethical Culture, Czech, 31-38; lectr, Free Sch. Polit. Sci, Charles Univ, Prague, 38. Indust. psychologist, 31-39. Psychol. Asn; Philos. Asn; Soc. Sci. Study Relig; Interam. Soc. Psychol. Psychology of personality projective techniques and personality theory; social psychology; peace. Publ: Timed cross-examination as an innovation in personality assessment, W.Va. Acad. Sci, 65; From Buddha to Pavlov—the technique of mysticism, Psychologia, 11/67; Franz Brentano in the perspective of existential psychology, J. Hist. Behav. Sci, 7/68. Address: Dept. of Psychology, West Virginia Wesleyan College, Buckhannon, W.Va. 26201.

GILBERT, DR. ARTHUR C. F, b. U.S, Feb. 8, 29. PSYCHOLOGY. B.Sc, Nebraska, 50, M.A, 54, Ph.D, 57; summer, Chicago, 61. Proj. dir. & res. psychologist, Ed. Res. Corp, 56-57; asst. dir. counseling serv, Princeton, 57, acting dir, 57-58, dir, 58-59, lectr. psychol, 57-59; clin. psychologist, U.S. Air Force, 59-64; CLIN. PSYCHOLOGIST & COORDINATOR RES, VET. ADMIN. MENT. HYG. CLIN, WASH, D.C, 65-; ASSOC. PROF. LECTR, GEORGE WASHINGTON, 67-, PROF. LECTR, AMERICAN UNIV, 67- Consult, Princeton Family Serv. Clin, 58-59. U.S.A, 46-48; U.S.A.F, 51-53. Fel. AAAS; Psychol. Asn. Learning; statistics and research design; counseling and psychotherapy; human engineering. Publ: Co-auth, Electronics maintenance training: experimental tryout of diagnostrigrams and backtracks & Replication of a study of differential predictability, Ed. & Psychol. Measurement; auth, Effect of immediacy of knowledge of correctness of response upon learning, J. Ed. Psychol. Address: 8708 First Ave, Silver Spring, Md. 20910.

GILBERT, DR. CHARLES, b. London, Eng, June 6, 13; nat; m. 48, 60; c. 2. ECONOMICS. B.S, N.Y. Univ, 49, Ph.D.(econ), 53; M.A, Pa. State, 50. Instr. ECON, Wagner Col, 50-53; asst. prof, N.Y. Univ, 53-58; assoc. prof. & chmn, Hartford, 58-60; ASSOC. PROF, HOFSTRA, 60- Econ. Asn; Econ. Hist. Asn; Finance Asn; Acad. Polit. & Soc. Sci. Economic history and theory; public finance; American business history and the development of entrepreneurship. Publ: Petroleum industry in the United States; How the United States financed World War I, J. Finance; Capital gains taxation in the United States, The Solicitor. Address: 19 Barry Dr, Glen Cove, N.Y. 11542.

GILBERT, PROF. CHARLES E, b. Albany, N.Y, May 29, 27. POLITICAL SCIENCE. B.A, Haverford Col, 50; London, 50-51; Soc. Sci. Res. Coun. fel, Swarthmore Col, 52-53; Ph.D, Northwestern, 55. Instr. polit. sci, Swarthmore Col, 53-54; govt, Oberlin Col, 55; asst. prof. POLIT. SCI, SWARTHMORE COL, 55-62, assoc. prof, 62-67, PROF, 67- Fel, Soc. Sci. Res. Coun, 59-60; Rockefeller Found. fel, 64-65. Consult, Cmt. Econ. Develop, 66- Mem. staff, Cleveland Metrop. Serv. Cmn, 57. U.S.N, 45-46. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; local and comparative government; intergovernmental relations and national policy making in the social services. Publ: Co-auth, Planning municipal investment; auth, Governing the suburbs, Indiana Univ, 67; Electoral competition and electoral system in large cities, J. Polit. Address: Dept. of Political Science, Swarthmore College, Swarthmore, Pa. 19081.

GILBERT, DR. CLAIRE W, b. Chicago, Ill, June 6, 28; div; c. 2. SOCIOLOGY. B.A, Northwestern, 62, Nat. Sci. Found. & Int. City Mgr. Asn. grants & M.A, 65, Ph.D.(sociol), 66. ASST. PROF. SOCIOL, FLORIDA ATLANTIC, 66-

Sociol. Asn; Soc. Study Social Probs. Community power; sociology of knowledge; methodology; theory; urban sociology; social organization and deviance. Publ: Some trends in community politics: a secondary analysis of power structure data from 166 communities, Southwest. Soc. Sci. Quart, 12/67; The study of community power: a summary and test, In: The new urbanization, St. Martins, 68; Community power and decision-making: a quantitative examination of previous research, In: Community structure and decision-making, Chandler Pub, 68. Address: Dept. of Sociology, Florida Atlantic University, Boca Raton, Fla. 33432.

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GILBERT, DR. EDWARD ROBERTS, b. Sharon, Pa, Mar. 17, 35; m. 59; c. 3. PSYCHOLOGY. B.A, Dickinson Col, 57; M.S, Pa. State, 58; Ed.D.(psychol), Temple, 65. ASSOC. PROF. PSYCHOL, ALBRIGHT COL, 58- Assoc. prof, Reading Hosp. Sch. Nursing, 58-; grad. sch, Temple, 62- Psychol. Asn; Acad. Polit. & Soc. Sci. Indicators of educational maturity and immaturity. Address: Dept. of Psychology, Albright College, Reading, Pa. 19604.

GILBERT, DR. GLENN GORDON, Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

GILBERT, PROF. G(USTAVE) M, b. New York, N.Y, Sept. 30, 11; m. 41; c. 3. PSYCHOLOGY. B.A, City Col. New York, 32; M.A, Columbia, 36, Ph.D. (psychol), 39. Instr. psychol, Lehigh, 39; Conn. Col. for Women, 39-40; Bard Col, Columbia, 40-42; psychologist, U.S. Army, 42-46; chief psychologist, Nurenberg War Crimes Trial, 45-46; assoc. prof. psychol, Princeton, 47-50; consult. chief psychologist, Vet. Admin. Hosp, Lyons, N.J, 47-50, chief psychologist, Northport, L.I, 50-51; assoc. prof. PSYCHOL, Mich. State, 51-58; PROF. & CHMN. DEPT, LONG ISLAND, 59- Consult, Peace Corps, 62- Bernays award, 50. Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Fel. Psychol. Asn; Interam. Soc. Psychol.(pres, 59-61). Psychopathology, especially social problems. Publ: Nurenberg Diary; Psychology of dictatorship. Address: Dept. of Psychology, Long Island University, Brooklyn, N.Y. 11201.

GILBERT, PROF. HARRY B(ERNARD), b. New York, N.Y, Oct. 12, 11; m. 35; c. 2. PSYCHOLOGY. B.S, City Col. New York, 32; M.A, Columbia, 33; Ph.D.(psychol), N.Y. Univ, 51. Sch. psychologist & teacher, Bd. Ed, N.Y, 33-37; sch. psychologist, Bur. Ed. Res, 37-53; supvr. psychologists, Bur. Child Guid, 53-55; mem. bd. exam, bd. ed, New York, 55-66; asst. dean res. instr, col. ed, Pa. State, 66-67; PROF. ED, FORDHAM, 67- Lectr, City Col. New York, 46-51; N.Y. Univ, 47-53; Long Island, 52. Consult, Yale Laitin Assocs, 63-; head start prog, Off. Econ. Opportunity, 66- U.S.N.R, 41-46, Comdr. Psychol. Asn; Ed. Res. Asn. Selection of educational personnel; exceptional children, physically handicapped, retarded, gifted; psychotherapeutic counseling. Publ: Selection of camp counselors; Extending education through camping; co-auth, Selection of educational personnel in the United States, New York City Bd. Ed, 66. Address: 23 Kingston Rd, Scarsdale, N.Y. 10583.

GILBERT, PROF. HORACE N(ATHANIEL), b. Yakima, Wash, June 15, 01; m. 34; c. 3. INDUSTRIAL ECONOMICS. A.B, Washington (Seattle), 23; M.B.A, Harvard, 26. Instr. bus. policy, Harvard, 26-28, econ, 28-29; asst. prof. BUS. ECON, CALIF. INST. TECH, 29-30, assoc. prof, 30-47, PROF, 47- Vis. prof, sch. commerce, Northwestern, 40; lectr, Harvard, 40-42. With U.S. Strategic Bombing Surv, Germany, 45; Off. U.S. High Cmnr, 49-51. U.S.A.A.F, 42-45. AAAS; Econ. Asn; Acad. Polit. Sci. Industrial mobilization; comparative industrial systems. Address: 1815 Orlando Rd, San Marino, Calif. 91108.

GILBERT, PROF. JAMES E(ASTHAM), b. Bridgeport, Conn, July 1, 29; m. 53. PSYCHOLOGY. B.S, New Mexico, 54; M.A, American Univ, 59. Interviewer, State Employ. Serv, Va, 52-53; ed. psychologist, Nat. Security Agency, 53-55; chief, U.S. Air Force Reading Lab, D.C, 55-57; res. psychologist, Nat. Security Agency, 57-64; dir. div. programmed learning, NORTHEASTERN, 64-66, ASSOC. PROF. PSYCHOL. & DIR. OFF. ED. RESOURCES, 66- Consult, sch. math. study group, Nat. Sci. Found, 61- Instnl. rep, Interuniv. Commun. Coun, 66-; chmn. ed. res. task group, Proj. Aristotle, 67- U.S.N.R, 48-59. Asn. Ed. Data Systs; Psychol. Asn; Ed. Res. Asn; Nat. Ed. Asn. Human learning; industrial training and evaluation; personnel evaluation and measurement; educational psychology, technology and innovation; instructional systems analysis and design; educational media research and development. Publ: Programmed learning and university instructional services, In: Bold new venture: programmed instruction, 68; Instructional systems analysis, In: Handbook for Col. & Univ. Adminstr, 68; Comparative programmed instruction research, Nat. Soc. Programmed Instr. J, 66. Address: 13 Pioneer Rd, Hingham, Mass. 02043.

GILBERT, DR. JANET MAUDE, b. Niagara Falls, N.Y. SOCIAL SCIENCE, EDUCATION. B.A, Middlebury Col, 40; M.A, Cornell, 41; Fund Adv. Ed. fel, 55-56; Ed.D.(guid, personnel), Buffalo, 61. Teacher, high schs, N.Y, 41-57; supvr. soc. studies, Niagara Falls Pub. Schs, 57-65; ASSOC. SEC. CURRICULUM DEVELOP, N.Y. STATE ED. DEPT, 65-, mem. soc. studies writing team, summers 63 & 65. Lectr, Niagara, 58-65. Summers, assoc, Ed. Testing Serv, 57, lectr, Buffalo, 61 & mem, Overseas Seminar Aspects Modernization in Asia, 64. Asn. Supv. & Curriculum Develop; Nat. Coun. Social Studies. Conceptual structuring of curriculum; inductive processes in learning. Address: Bureau of Secondary Curriculum Development, State Education Dept, Albany, N.Y. 12224.

GILBERT, DR. JEANNE G(IFFORD), b. Haddon Heights, N.J, Nov. 24, 05. PSYCHOLOGY. A.B, Cornell, 25; M.A, Pennsylvania, 26; Ph.D.(psychol), Columbia, 36. Psychologist, St. Charles Child Guid. Clin, New York, 30-60; dir. psychol. serv, MT. CARMEL GUILD, NEWARK, N.J, 60-65, DIR. RES, 65- Assoc. prof, grad. sch, Fordham, 48-; adj. assoc. prof, grad. sch, Long Island, 49-61. Psychologist, Little Flower Inst, 41-45. Psychol. Asn; Geront. Soc; Asn. Adv. Psychother. Clinical, abnormal and developmental psychology. Publ: Understanding old age; co-auth, Psychology for the profession of nursing. Address: Dept. of Research, Mt. Carmel Guild, 99 Central Ave, Newark, N.J. 07102.

GILBERT, JEROME, b. New York, N.Y, Nov. 24, 21. ECONOMICS. B.S, N.Y. Univ, 42, M.B.A, 50; Columbia, 50. Instr. econ, Rhode Island, 48-50; bus. economist nat. income, U.S. Dept. Commerce, D.C, 51-52; Am. indust, U.S. Fed. Trade Cmn, 52-54; instr. int. econ, Bernard Baruch Sch. Bus. Admin, City Col. New York, 57-58; TRADE ECONOMIST, PORT OF N.Y. AUTHORITY, 54- Adj. assoc. prof, grad. sch. bus. admin, N.Y. Univ, 62- Mem, adv. group for. trade statist, U.S. Bur. Census, D.C, 60. Mem, tech. study group, Nat. For. Trade Coun, N.Y, 58-; Transportation Res. Forum of N.Y, 60- International and transportation economics. Publ: Financial controls; Foreign trade at the port of New York. Address: Port of New York Authority, 111 Eighth Ave. at 15th St, New York, N.Y. 10011.

GILBERT, PROF. JOHN A, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GILBERT, DR. JOHN H. V, b. Bath, Eng, Mar. 19, 41; m. 66; c. 1. AUDIOLOGY, SPEECH. M.S, Purdue, 65, Ph.D.(speech sci), 66. ASST. PROF. PEDIAT, BRITISH COLUMBIA, 66- Nat. Res. Coun. Can. grant, 67-68; Med. Res. Coun. Can. grant, 67-69. Acoustical Soc. Am; Speech & Hearing Asn; Ling. Soc. Am; Can. Soc. Clin. Invest; Phonetic Soc. Japan. Acquisition of language, phonetic and linguistic aspects. Address: Dept. of Pediatrics, University of British Columbia, 715 W. 12th Ave, Vancouver 8, B.C, Can.

GILBERT, DR. JOHN P(ARKER), b. Brooklyn, N.Y, Apr. 30, 26; m. 62; c. 2. MATHEMATICS, STATISTICS. B.A, St. John's Col.(Md), 48; M.S, Chicago, 53, Ph.D, 62. Statist. consult, grad. sch. med, Chicago, 53-57; Center Adv. Study Behav. Sci, Inc, 57-65; STAFF STATISTICIAN, HARVARD COMPUT. CENTER, 66- L.L. Thurston distinguished fel, North Carolina, 65-66. Statist. consult, Nat. Holothane Study, 64-66. U.S.N.R, 44-46. Fel. AAAS; Statist. Asn; Inst. Math. Statist. Nonparametric statistics; computer simulation. Publ: Co-auth, Computer simulation and analysis of problems in kinship and social structure, Am. Anthropologist, 68: 71-93, Recognizing the maximum of a sequence, J. Am. Statist. Asn, 61: 35-73 & A computer method of psychotherapy: preliminary communication, J. Nerv. & Ment. Disease, 142: 148-152. Address: Harvard Computing Center, Cambridge, Mass. 02138.

GILBERT, DR. JOSEPH G(ATLIFF), b. Pineville, Ky, Nov. 21, 20; m. 48; c. 3. PSYCHOLOGY. Ph.D.(psychol), Tennessee, 54. Clin. psychologist, Vet. Admin, Pensacola, Fla, 52-59; State Hosp, Yankton, S.Dak, 60-61; chief clin. psychologist, Richland County Ment. Health Clin, S.C, 61-63; Child Develop. Center, S.C. Med. Col. Hosp, 63-64; Ment. Health Center, Anderson-Pickens-Oconee Counties, S.C, 64-66; CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, CHARLESTON, S.C, 67- U.S. Merchant Marine, 42-46. Psychol. Asn. Personality structure; cognition; creativity. Publ: Vocational archetypes: a proposal for clinical integration of interests and values in vocational counseling and selection, Psychol. Reports, 13: 351-356; Conceptual preferences associated with choice of quantitative and nonquantitative college majors, Genetic Psychol. Monogr, 67: 219-274; Rater reliability of a depressive rating scale, J. Psychol, 68: 173-180. Address: 1313 S. Edgewater Dr, Edgewater Park, Charleston, S.C. 29407.

GILBERT, PROF. LUTHER C, b. Meridian, Miss, Dec. 17, 90; m. 25; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Miss. Col, 18; M.S, Virginia, 24; Ph.D, Chicago, 31. Asst. math, Miss. Col, 18; asst. prof. ed, Virginia, 25-27; lectr. ed, CALIFORNIA, BERKELEY, 29-37, asst. prof, 37-39, prof. ed. psychol, 39-58, acting dean sch. ed, 48-50, EMER. PROF. ED. PSYCHOL, 58- Vis. prof, Duke, 35; Melbourne, 62. Consult, State Bar Asn, Calif, 54- AAAS; Psychol. Asn. Scientific study of functional motor efficiency of the eyes; identification of factors in visual perception; investigation of speed of processing of visual stimuli in its relation to reading. Publ: Functional motor efficiency of the eyes and its relation to reading; Experimental investigation of eye movements in learning to spell, Psychol. Monogr; Speed of processing visual stimuli and its relation to reading, J. Ed. Psychol. Address: Dept. of Education, University of California, Berkeley, Calif. 94708.

GILBERT, DR. MILTON, b. Philadelphia, Pa, Apr. 8, 09. ECONOMICS, STATISTICS. B.S, Temple, 31; A.M, Pennsylvania, 33, Ph.D, 38; Soc. Sci. Res. Coun. fel, 35-36. Econ. analyst, Nat. Res. Proj, 36-38; bur. for. & domestic commerce, U.S. Dept. Commerce, 38-39, ed, Surv. Current Bus, 39-40, chief div. current bus. anal, 40-41, nat. income div, 41-51; dir. econ. & statist, OEEC, Paris, 51-60; ECON. ADV, BANK INT. SETTLEMENTS, SWITZ, 60- Chief econ. div, U.S. Strategic Bombing Surv, 45-46; dir. budget & res, Am. Joint Distribution Cmt, 48-50. Econ. Asn; fel. Statist. Asn; Royal Econ. Soc. Currency depreciation and monetary policy; export price policy; national income. Address: Bank for International Settlements, 4002, Basel, Switz.

GILBERT, DR. PETER F, b. Central City, Pa, May 30, 16; m. 43; c. 2. PSYCHOLOGY. B.S, Pa. State, 41, M.S, 48, fel, 49-50, Ph.D.(psychol), 50. PARTNER, ROHRER, HIBLER & REPLOGLE, 50- U.S.A.A.F, 43-46. Psychol. Asn. Personality and organizational development; executive appraisal, selection and development. Publ: Co-auth, Sonic and ultrasonic effects on maze learning and retention in the albino rat, J. Sci. Labs. Address: 30 Linwood Rd, Wellesley Hills, Mass. 02181.

GILBERT, DR. RALPH W(ESLEY), b. Passaic, N.J, June 26, 03; m. 28; c. 2. PSYCHOLOGY. A.B, Clark, 24, A.M, 25, fel, 25-27, Ph.D.(psychol), 27. Instr. PSYCHOL, WASH. SQ. COL, N.Y. UNIV, 27-44, asst. prof, 44-47, ASSOC. PROF, 47- Fel. AAAS; fel. Psychol. Asn. Sensory physiology; human learning; dermal sensitivity and the differentiated nerve terminations of the human skin. Publ: Co-auth, Recent experiments in psychology; auth, Effect of non-informative shock upon maze learning and retention with human subjects, J. Exp. Psychol. Address: Dept. of Psychology, Washington Square College, New York University, Washington Square, New York, N.Y. 10003.

GILBERT, PROF. RAYMOND ROBINS, b. Monticello, Ill, Aug. 27, 20; m; c. 1. CLINICAL PSYCHOLOGY. A.B, Colo. Col, 43; M.A, Harvard, 50. U.S. Pub. Health Serv. fel, 51-52, Ph.D.(clin. psychol), 53. Trainee clin. psychol, Bedford & Cushing Vet. Admin. Hosps, Mass, 47-51; psychologist, childrens psychiat. clin, Mass. Mem. Hosp, Boston, 53-54, psychosom. clin. & res. unit, 53-56; chief psychologist, div. legal med, State Dept. Ment. Health, 56-57; dep. cmnr. classification & treatment, Mass. State Dept. Correction, 57-65; PROF. PSYCHOL, MASS. STATE COL. BOSTON, 65- Instr. sch. med, Boston, 53-57; Quincy Jr. Col, 60-65. U.S.N.R, 43-46. Psychol. Asn. Criminology; psychology of adult criminal offenders; psychiatric treatment of the institutionalized criminal; development of rehabilitation programs in correctional institutions. Publ: Co-auth, The psychologist's function on a state level, Ment. Hosps. & Is trying enough? a report of treatment during the latency period of a girl with atypical development. In: Case studies in childhood emotional disabilities. Address: 40 Chase St, Newton Centre, Mass. 02159.

GILBERT, DR. ROBERT E(MILE), b. New York, N.Y, Oct. 20, 39. POLITICAL SCIENCE. B.A, Fordham, 61, M.A, 63; Ph.D.(govt), Massachusetts, Amherst, 67. Teaching asst, Massachusetts, Amherst, 62-65; instr. POLIT. SCI, BOSTON COL, 65-67, ASST. PROF, 67-, summer univ. res. grant, 67. Res. asst, Fordham, 62. Polit. Sci. Asn. American presidency; urban politics: American political parties and national government. Address: 70 Chiswick Rd, Brighton, Mass. 02135.

GILBERT, DR. THOMAS FRANKLYN, Exp. & Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

GILBERT, DR. WILLIAM H(ARLEN), b. Covington, Ky, July 28, 04; m. 34; c. 4. SOCIAL ANTHROPOLOGY. A.B, Cincinnati, 27; M.A, Chicago, 30, Ph.D.(soc. anthrop), 34. Instr. sociol. & anthrop, Cincinnati, 35-36; assoc. prof. econ, Ala. Polytech, 36-37; instr. soc. scis, State Univ. N.Y. Col. Teachers, 38-39; asst. prof. sociol. & anthrop, American Univ, 39-40; SOC. SCI. ANALYST, AM. INDIAN AFFAIRS, LIBRARY OF CONG, 41- Teacher, Montgomery Jr. Col, 67, evening exten, 67- Fel. Anthrop. Asn. Kinship organization and rituals of primitive and civilized peoples: endogamous and exogamous groups and lineage configurations of all people, particularly India and North American aborigines. Publ: Eastern Cherokees, Anthrop. Papers, Bur. Am. Ethnol; Peoples of India, Smithsonian Instn. War Background Study; Sinhalese caste system of central and southern Ceylon, J. Wash. Acad. Sci. Address: 9015 First Ave, Silver Spring, Md. 20910.

GILBERT, PROF. WILLIAM M(ICHAEL), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

GILBOY, DR. ELIZABETH W(ATERMAN), b. Boston, Mass, Sept. 24, 03; m. ECONOMICS. A.B, Columbia, 24; A.M, Radcliffe Col, 25, Whitney traveling fel, 26-28, Ph.D, 29. Secy. cmt. res. soc. scis, HARVARD, 29-41, ASSOC. DIR, ECON. RES. PROJ, 50-, LECTR, 58- Grad. adv, Radcliffe Col, 30-41; consult, U.S. Bur. Labor Statist, 60- Secy. gen, Int. Conf. Input-Output Tech, Geneva, 61. Mem. econ. div, Off. Strategic Servs, 42-43. Economet. Soc: Econ. Asn. Analysis of household consumption within the input-output system. Publ: Wages in Eighteenth Century England: Applicants for work relief; Primer on economics of consumption, Random, 68. Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

GILBRETH, PROF. HAROLD B(RITE), b. Bowling Green, Ky; m. 38. ECONOMICS. A.B, West. Ky. State Col, 30; A.B. Bowling Green, 31; M.A. Kentucky, 35; Ed.D.(bus. ed), N.Y. Univ, 40. PROF. BUS. & ECON. WINTHROP COL, 40-, DIR. DIV. GRAD. STUDIES, 66- Economic and business education. Address: Box 64, Winthrop College, Rock Hill, S.C. 29730.

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GILCHRIST, PROF. J(ACK) C(ECIL), b. Birmingham, Ala, June 7, 18; m. 41; c. 3. PSYCHOLOGY. B.S, California, Los Angeles, 45, Ph.D, 50. Asst. prof. PSYCHOL, Arkansas, 48-50; WISCONSIN, 50-54, assoc. prof, 54-59, PROF, 59-, chmn. dept, 59-62. U.S.A, 40-44, Capt. Psychol. Asn. Personality theory; social psychology. Address: Dept. of Psychology, University of Wisconsin, Madison, Wis. 53706.

GILDEA, PROF. RAY Y(EAKLE), JR, b. Baltimore, Md, May 20, 23; m. 52; c. 4. GEOGRAPHY. B.S, Cornell, 48; M.A, Virginia, 50. Salesman & mgt. trainee, S.S. Pennock Co, 52-53; mkt. agent, State Dept. Agr, Va, 53; instr. geog, Florida, 53-56, econ, 56-59; asst. prof. econ. & geog, Auburn, 59-60; teacher geog, La. State, 61-63; ASSOC. PROF. SOC. SCI, MISS. STATE COL. WOMEN, 63- U.S.A, 42-46. Asn. Am. Geog; Am. Geog. Soc; Soil Conserv. Soc.(spec. citation, 67); Royal Geog. Soc. Educational geography; resource use; Africa. Publ: Culture and land tenure in Ghana, Land Econ, 2/64; Denmark, In: Merit Students Encyclop, Macmillan, 66; Haiti, Focus, 5/67. Address: Dept. of Social Studies, Mississippi State College for Women, Columbus, Miss. 39701.

GILE, PROF. BUEFORD M(ONROE), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

GILES, DR. EUGENE, Phys. Anthrop, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GILES, PROF. H(ERMANN) HARRY, b. Oberlin, Ohio, Oct. 6, 01; m. 22, 35; c. 5. HUMAN RELATIONS. A.B, Amherst Col, 23; M.A, Wisconsin, 39; Ph.D.(ed. & human develop), Ohio State, 42. Res. assoc, bur. ed. res, Ohio State, 37-41; dir. community work, W.Ga. Col, 42-44; exec. dir, Bur. Intercultural Ed, 44-48; PROF. ED. & ADV. PROG, HUMAN DEVELOP. & SOC. RELS, N.Y. UNIV, 47- Lectr, North Carolina, 39; Northwestern, 40; Maine, 46-47; Hillman lectr, Goddard Col, 54. Consult, Julius Rosenwald Fund, 42-44; Phila. Fel. Cmn, 45-; Sci. Resources, Inc, 63-; Greenleigh Res. Assocs, 66; Res. & Action Assocs, 67- Psychol. Asn; Anthrop. Asn; Acad. Polit. & Soc. Sci; Soc. Psychol. Study Social Issues. Conflict episode analysis; learning theory and practice; group process. Publ: Education and human motivation, Hiroshima, 63; Seven strangers, Goddard Col, 65; co-auth, Self-evaluation of group therapy, Int. J. Soc. Psychiat, 65. Address: College of Education, New York University, East 637, New York, N.Y. 10003.

GILES, PROF. HOWARD COLEMAN, b. Herndon, Ky, Apr. 10, 26; m. 54; c. 2. ECONOMICS. B.S, Kentucky, 49, M.S, 57; Ph.D.(agr. econ), Purdue, 59. Res. asst. agr. econ, Kentucky, 55-56; Purdue, 56-59; asst. prof. exten. mkt, Florida, 59-64; assoc. prof. ECON, MURRAY STATE, 64-66, PROF. & CHMN. DEPT, 66- U.S.A, 50-52. Acad. Polit. & Soc. Sci. Address: Dept. of Economics, Murray State University, Box 1274, Murray, Ky. 42071.

GILES, PROF. JAMES BERNARD, b. Goldthwaite, Tex, Oct. 21, 14. ECONOMICS. B.B.A, Texas, 36, A.M, 37; Columbia, 46-47, summers, 40, 41, 46. From instr. to asst. prof. econ, Miss. State, 38-42; economist, War Prod. Bd, & U.S. Dept. Commerce, 42-43; from asst. prof. to LECTR. ECON. & DIR. ADMISSIONS, RICE, 47- Consult, World Bank & Cent. Govt. Ecuador, 63; mem. panel arbitrators, Fed. Mediation & Conciliation Serv, 62- Econ. Asn; Arbit. Asn. Influence of wages upon the rate of technological progress; public policy; labor relations. Address: Dept. of Economics, Rice University, Houston, Tex. 77001.

GILES, PROF. LAWRENCE ELMER, b. Sunset, Wash, Aug. 23, 14; m. 42; c. 4. EDUCATIONAL PSYCHOLOGY, SOCIAL SCIENCE. B.A, Washington State, 36, B.Ed, 38; M.A, Minnesota, 48, Ph.D, 50. Salesman, New York Life Ins. Co, 37-39; teacher, high schs, Wash, 39-42, 45-47; instr. soc. studies, Minnesota, 47-51; asst. prof, Illinois, 51-52; prof. ed. & soc. sci, Ohio State proj, Territorial Col, Guam, 52-54; PROF. ED. PSYCHOL. & CHMN. PSYCHOL. SERV. ED. PROG, SOUTH CAROLINA, 54-, chmn. sec. ed, sch. ed, 62- Mem, Nat. Coun. Soc. Studies. U.S.N, 42-45, Res, 45-, Comdr. Psychol. Asn; Personnel & Guid. Asn. Studying individuals within a class as basis for instruction. Publ: How to study a class; Class participation procedures, J. Ed. Address: 4218 St. Claire Dr, Columbia, S.C. 29206.

GILES, PROF. WALTER I(RB), b. Hollis, Okla, Jan. 3, 20. POLITICAL SCIENCE. B.S.F.S, Georgetown, 43, M.A, 46, Ph.D.(comp. govt), 56. Secy. to regent, sch. for. serv, GEORGETOWN, 44-50, from asst. prof. to ASSOC. PROF. GOVT, 48- U.S.A.A.F, 45-46. Polit. Sci. Asn. American government; constitutional law; comparative government. Address: 1701 N. Kent St, Arlington, Va. 22209.

GILFILLAN, DR. S. COLUM, b. St. Paul, Minn, Apr. 5, 89; m. 22; c. 2. SOCIAL SCIENCE. A.B, Pennsylvania, 10; A.M, Columbia, 20, Ph.D.(sociol), 35. Acting asst. prof. & assoc. prof. soc. sci, Univ. of the South, 21-24; instr. econ. & sociol, Grinnell Col, 24-26; curator transportation & soc. sci, Mus. Sci. & Indust, Chicago, Ill, 29-30; investr, President's Res. Cmt. Soc. Trends, 30-32; Nat. Resources Cmt, 36; asst. prof. soc. sci, Purdue, 37-38; lectr, Northwestern, 40; res. assoc, Chicago, 41-50; RES. & SCI. WRITING, 50- Lectr, Roosevelt, 49. U.S.A, 17-19. Sociol. Asn; Soc. Hist. Tech; Eugenics Soc. Social aspects of invention; technologic history; human geography; ancient dysgenic lead poisoning; prediction. Publ: Invention and the patent system, Joint Econ. Cmt. Cong, 64; Lead poisoning and the fall of Rome, J. Occup. Med, 2/65. Address: 1215 Ocean Ave, Santa Monica, Calif. 90401.

GILFORD, LEON, Math. Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GILGASH, DR. CURTIS ARNOLD, b. Ellicott City, Md, Feb. 15, 28; m. 57. PSYCHOLOGY. B.A, Wash. Col, 49; M.A, American Univ, 53, Ph.D, 56. Instr, Catonsville High Sch, Md, 49-50; clin. psychologist, Baltimore County Bd. Ed, 53-57; asst. prof. psychol, Hawaii, 57-58; dir. spec. ed, Dillard, 58-59; assoc. prof. PSYCHOL. & chmn. dept, MacMurray Col, 59-62; PROF. & CHMN. DEPT, TAMPA, 62- Summers, vis. prof, Hopkins, 64, 65. U.S.A, 45-49, Sgt. Psychol. Asn; Personnel & Guid. Asn; fel. Int. Coun. Psychol. Clinical psychology; school behavior problems; history and systems of psychology; special education. Publ: Effects glutamic acid on adult institutionalized mental defective delinquents, Am. J. Ment. Deficiency; Study of thorazine on functioning of catatonic schizophrenic, Psychol. Reports; Wechsler-Bellevue comparison in regards catatonic schizophrenia and drug therapy, J. Clin. Psychol. Address: Dept. of Psychology, University of Tampa, Tampa, Fla. 33606.

GILGEN, DR. ALBERT RUDOLPH, b. Akron, Ohio, Sept. 19, 30; m. 54; c. 3. PSYCHOLOGY. A.B, Princeton, 52; Nat. Sci. Found. summer fel, Kent State, 61, M.A, 63; Nat. Sci. Found. summer fel, Mich. State, 63, Nat. Inst. Ment. Health fel, 64-65, Ph.D.(psychol), 65. Mgt. trainee, Gen. Tire & Rubber Co, 55-56, asst. mgr. qual. control dept, 56-57; salesman, Crawford Realty Co, Ohio, 58-60; ASST. PROF. PSYCHOL, BELOIT COL, 65- Dir, Nat. Sci. Found. summer insts. for col. teachers psychol, 67 & 68. U.S.N, 52-55, Lt.(jg). Psychol. Asn. Personality theory; philosophical aspects of psychology; perception; physiological psychology. Address: Dept. of Psychology, Beloit College, Beloit, Wis. 53511.

GILHOOLY, DR. FRANCIS M, b. Providence, R.I, May 27, 22; m. 51; c. 1. PSYCHOLOGY. B.S, Providence Col, 43; M.A, Fordham, 49, Ph.D.(psychol), 53. Res. psychologist, U.S. Dept. Air Force, 51-57; staff psychologist, Klein Inst. Aptitude Testing, Inc, 57-61; V.PRES. & TECH. DIR, CARESS, GILHOOLY & KESTIN INC, 61- U.S.A, 43-45. Psychol. Asn. Personnel; tests and measurements. Publ: Relationship between variability and ability on Wechsler-Bellevue, J. Consult. Psychol; Proficiency test development and research for airman career program of United States Air Force, Am. Psychologist. Address: 2028 Byron Rd, Merrick, N.Y. 11566.

GILHOUSEN, PROF. HOWARD C(LARKE), b. Warsaw, Ill, Dec. 3, 95; m. 27. PSYCHOLOGY. A.B, California, 25, Ph.D.(psychol), 30. Tutor & asst, Harvard, 30-31; instr. PSYCHOL, CALIFORNIA, LOS ANGELES, 31-35, asst. prof, 36-41, assoc. prof, 41-50, prof, 50-63, chmn. dept, 55-59, EMER. PROF, 63- Fel. Psychol. Asn. Animal and experimental psychology. Address: 2216 Veteran Ave, Los Angeles, Calif. 90064.

GILISON, DR. JEROME MARTIN, b. New York, N.Y, Sept. 27, 35; m. 62; c. 2. POLITICAL SCIENCE. B.S, Mass. Inst. Tech, 56; Ph.D.(polit. sci), Columbia, 65. ASST. PROF. POLIT. SCI, HOPKINS, 65- Inter-Univ. Cmt. travel grant, Moscow State, 63-64; Nat. Sci. Found. summer grants, 67 & 68. U.S.A, 56-58, 1st Lt. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Politics of the Soviet Union; politics in East Europe, China and Great Britain; comparative politics. Publ: New factors of stability in Soviet collective leadership, World Polit, 7/67; Soviet elections as a measure of dissent, Am. Polit. Sci. Rev, 9/68. Address: Dept. of Political Science, Johns Hopkins University, Baltimore, Md. 21218.

GILKEY, PROF. ROYAL C(LARENCE), b. Ithaca, N.Y, June 7, 19; m. 50; c. 1. POLITICAL SCIENCE. B.A, Cornell, 41; scholar, Columbia, 46-47, M.A, 47; Ph.D.(pub. law), Minnesota, 57. Instr. govt. & hist, Univ. Kansas City, 48-50; asst. POLIT. SCI, Minnesota, 52-57, instr, 52-53; asst. prof, WEST VIRGINIA, 57-63, assoc. prof, 63-67, PROF, 67- Summer instr, Hamilton Col, 47. U.S.A.A.F, 42-45, Res, 45-62, Maj. Legal biography; constitutional and administrative law, especially area of civil liberties and procedural rights. Publ: Felix Frankfurters' role as a progressive in politics and liberal disciple of Brandeis on the labor question, summer 65 & Felix Frankfurter and the Oregon maximum hour case, winter 67, Univ. Missouri at Kansas City Law Rev; The problem of church and state in terms of the nonestablishment and free exercise of religion, William & Mary Law Rev fall 67. Address: Dept. of Political Science, West Virginia University, Morgantown, W.Va. 26506.

GILL, DR. HARPAL SINGH, b. Rampur, India, May 7, 37; U.S. citizen; m. 61; c. 2. POLITICAL SCIENCE, ECONOMICS. B.A, Punjab, India, 56; M.S, Kansas State, 58; M.A, Adams State Col, 61; Ph.D.(polit. sci), Idaho, 68. Instr, high sch, Colo, 61-63, Wash, 64-66; ASST. PROF. POLIT. SCI. & ECON, NORTHEAST. STATE COL, 66- Am. Polit. Sci. Asn. grant, 64. Polit. Sci. Asn; Nat. Ed. Asn. Politics of developing nations of Asia; comparative systems analysis; educational interest groups of the United States. Address: Division of Social Science, Northeastern State College, Tahlequah, Okla. 74464.

GILL, PROF. JOHN P(AUL), b. Warrior-Run, Pa, Jan. 7, 10; m. 32; c. 1. STATISTICS. A.B, Alabama, 32, M.A, 34; Ph.D.(bus. admin), Texas, 50. From instr. to asst. prof. bus. math. & statist, Alabama, 32-43, 45-46, statistician, bur. bus. res, 41-42, 45-46; instr. bus. statist, Texas, 47-49; asst. prof. math. & statist, Fla. State, 49-51; prof. econ, Georgia, 51-60, dir. res, Atlanta Div, 51-54, dir. bur. bus. res, 54-60; PROF. BUS. STATIST. & HEAD DEPT, ALABAMA, 60- Res. statistician, dept. res, Fed. Reserve Bank, Dallas, Tex, 43-45; chief res. & prog. anal. div, War Assets Admin, 46-47. Statist. Asn. Mathematics; resources; money and banking. Publ: Elementary concepts of functional means and dispersions & Some notes on the mean difference, Nat. Math. Mag; On the problem of stratified random sampling, J. Fla. Acad. Sci. Address: 10C Northwood, Northport, Ala. 35476.

GILL, DR. NEWELL T, b. Butler, Pa, Mar. 19, 33; m. 59; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, North Carolina, 55; M.Ed, Florida, 63, Ed.D.(ed. psychol), 65. Asst. prof. ED. PSYCHOL, EASTERN KENTUCKY, 65-68, ASSOC. PROF, 68- DIR. UNDERGRAD. RES. TRAINING PROG, 67- U.S.N, 55-58, Res, 58-67, Lt. Ed. Res. Asn. Teacher education; perceptual development and its relationship to learning. Publ: Effect of security on selected variables related to perception..., 2/67 & Effects of a helping relationship experience with children in teacher education, 2/68, Annual Am. Ed. Res. Asn. Meeting; Perceptual and socio-economic variables, instruction in body orientation and predicted academic success in young children, Perceptual & Motor Skills, (in press). Address: Dept. of Education & Psychology, Eastern Kentucky University, Combs Bldg, Richmond, Ky. 40475.

GILL, DR. RICHARD T(HOMAS), b. Long Branch, N.J, Nov. 30, 27; m. 50; c. 3. ECONOMICS. A.B, Harvard, 48, fel, 52-55, Ph.D, 56; Jesus Col, Oxford, 48-49. Asst. dean, Harvard Col, 49-52, instr. ECON, 52-55, Burr sr. tutor, 55-57, asst. prof, 57-62; LECTR. & MASTER LEVERETT HOUSE, HARVARD, 63- U.S.A, 46-47. Economic theory; history of economic thought; economic development. Publ: Economic development: past and present, 63, Evolution of modern economics, 67, & Economics and the public interest, 68, Prentice-Hall. Address: Leverett House F-5, Cambridge, Mass. 02138.

GILLAM, PROF. CORNELIUS W(ILLET), b. Minneapolis, Minn, Jan. 6, 27; m. 47; c. 2. GOVERNMENT, ECONOMICS. B.A, Carleton Col, 45, scholar, 45-46; M.A, Minnesota, 46; scholar. & J.D, Chicago, 50, Ph.D, 55. Instr. econ, Carleton Col, 46-48; bus. & econ, Ill. Inst. Tech, 49-50; asst, Chicago, 50, instr. bus. law, 50-53, asst. prof, 53-54; Washington (Seattle), 55-56, assoc. prof, 56-61, faculty res. grants, 55, 57, 58-60; vis. prof, Wharton Sch, Pennsylvania, 61-62, prof, 62-68; PROF. ECON. & POLIT. SCI. & DEAN ARTS & SCI, CENT. WASH. STATE COL, 68- Vis. instr, California, 51; Agnes Anderson Fund grant, 58-60; sr. fel, law sch, Yale, 59-60; Ford Found. faculty study fel, 59-60; Small Bus. Admin. grant, 59-61; vis. prof, Stanford, 64-65. Summers, res. fel, Joseph T. Ryerson & Sons, Inc, 54, mem. Univ. Chicago-Ford Found. faculty seminar, Williams Col, 59, res. fel, Great North. Rwy, 60, E.I. du Pont de Nemours & Co, Inc, 62, workshop on polit. & soc. environ. bus, California, Berkeley, 64, participant, seminar on law as soc. sci, Asn. Am. Law Schs, 66. Series ed, Foundations of law

in a business society, Prentice-Hall, Inc, 61- Econ. Asn; Bar Asn; Polit. Sci. Asn; Bus. Law Asn.(pres, 57-58); Arbit. Asn; Law & Soc. Asn. Social control of business; legal, political and social environment of business; public law and legal process; government regulation and antitrust; products liability; business history and research methods. Publ: Textbook of law and business; Strict liability and social control-products liability in the automobile industry; co-auth, Law and the legal process, Wiley, 65. Address: Central Washington State College, Ellensburg, Wash. 98926.

GILLEN, ANNE L(AURA), Biostatist, see 11th ed, Phys. & Biol. Vols.

GILLER, DR. DONALD WAYNE, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

GILLESPIE, DR. ALBA M(ELVIN), b. Kansas City, Kans, Feb. 2, 29; m. 57; c. 2. POLITICAL SCIENCE. B.A, California, Santa Barbara, 59; M.A, Princeton, 61, Ph.D.(polit. sci), 65. Asst. prof. polit. sci, HUMBOLDT STATE COL, 61-66, ASSOC. PROF, 66-, CHMN. SOC. SCI. DIV, 67- U.S.A, 48-57, Sgt. Polit. Sci. Asn. State and local government in the United States; political parties. Address: Dept. of Political Science, Humboldt State College, Arcata, Calif. 95521.

GILLESPIE, DR. JAMES M(acKINNON), b. Andover, Mass, June 2, 19. PSYCHOLOGY. A.B, Harvard, 47, A.M, 49, Ph.D.(soc. psychol), 60. Asst. prof. PSYCHOL, COLBY COL, 51-60, ASSOC. PROF. & CHMN. DEPT, 61- U.S.A, 40-46, Capt. Psychol. Asn; Sociol. Asn. Personality; national characteristics; language. Publ: Youth's outlook on the future. Address: Dept. of Psychology, Colby College, Waterville, Maine 04901.

GILLESPIE, DR. JOHN, Govt, see 10th ed, Soc. & Behav. Vols.

GILLESPIE, DR. JOHN F(RANCIS), JR, b. Shamokin, Pa, Jan. 29, 20; m; c. 3. CLINICAL PSYCHOLOGY. B.A, Pa. State, 46, M.S, 48, Ph.D.(psychol), 51. Intern clin. psychol, Vet. Admin, 48-51, supv. clin. psychologist, Hosp, Roanoke, Va, 51-55; consult. psychologist to mgt, ROHRER, HIBLER & REPLOGLE, 55-62, RESIDENT PARTNER, 62- U.S.A, 42-46, Capt. Psychol. Asn. Client-centered psychotherapy; executive selection and development; organization and manpower planning; career counseling. Publ: Contrib, Verbal signs of resistance in client-centered therapy. Address: 821 Nathan Hale Rd, Berwyn, Pa. 19312.

GILLESPIE, RAYMOND H(OWARD), b. Mosherville, Mich, Oct. 11, 28; m. 52; c. 2. STATISTICS, MATHEMATICS. A.B, Albion Col, 50; M.S, Purdue, 52. Statistician, Union Carbide Metals Co, 53-55, head comput. lab, 55-61; mgr. opers. res, Carborundum Co, 61-64; sr. scientist, Spindletop Res. Center, 64-65, dir. comput, 65-66; DIR. DATA PROCESSING, JOCKEY CLUB, 66- Lectr, Niagara, 55- Statist. Asn; Asn. Comput. Mach; Soc. Indust. & Appl. Math. Operations research; linear programming; quality, production and inventory control; computing; college teaching at undergraduate level; management science. Publ: Analysis of Kentucky highway accidents, State Dept. Pub. Safety, Ky, 66; co-auth, Predicting minimum materials cost for stainless steel. Address: Data Processing Dept, Statistical Bureau, Jockey Club, 904 N. Broadway, Lexington, Ky. 40502.

GILLET, DR. MYRTLE MANN, Psychol, see 10th ed, Soc. & Behav. Vols.

GILLETTE, DR. ANNETTE LILLIAN, b. Rochester, N.Y, Dec. 17, 09. PSYCHOLOGY. B.A, Vassar Col, 31; M.A, Columbia, 32, Ph.D.(psychol), 36. Asst. psychol, Barnard Col, Columbia, 33-34; Vassar Col, 34-35; instr, Bennett Jr. Col, 35; clin. psychologist, Guid. Center, Rochester, N.Y, 37-41; psychologist, pub. schs, Jamestown, N.Y, 41-44; clin. psychologist, N.J. Children's Home Soc, 44-47; instr. psychol, univ. exten, Rutgers, 46-47; COORDINATOR PSYCHOL. SERV, HARTFORD SCHS, CONN, 47- Instr, Hartford, 50- Fel. Psychol. Asn. School adjustment problems; child development; psychological testing. Address: Board of Education, 249 High St, Hartford, Conn. 06103.

GILLETTE, CHARLES E(DGAR), b. New Albany, Ind, Feb. 23, 20; m. 42; c. 3. ANTHROPOLOGY. A.B, Cornell Col, 42; A.M, Chicago, 49. Sr. curator ARCHAEOL, N.Y. STATE MUS, 50-56, ASSOC. CURATOR, 56- Participant, Am. Asn. Mus. Summer Inst. Anthrop, Univ. Arizona, 63. U.S.A, 42-45. Anthrop. Asn; Soc. Am. Archaeol; Asn. Phys. Anthrop; Asn. Mus. Archaeology of northeastern United States; material culture and ethnology of the Iroquois Indians; techniques of preservation and exhibition of museum specimens. Address: New York State Museum, State Education Bldg, Albany, N.Y. 12224.

GILLETTE, DR. THOMAS LEE, b. Kansas City, Mo, Aug. 31, 29; m. 66. SOCIOLOGY. B.A, Missouri, 52; M.A, Univ. Kansas City, 53; Iowa State, 53-54; Chicago, summer 56; Oslo, summer 57; Wash. Sch. Psychiat, 57-58; Ph.D.(sociol), North Carolina, 61. Instr. sociol. & researcher pharmaceut. indust, North Carolina, 56-57; soc. sci. analyst, lab. socio-environ. studies, Nat. Inst. Ment. Health, 57-61; asst. prof. sociol, San Diego State Col, 61-66; res. assoc. & study dir, WAR ON POVERTY EVAL, WEST. BEHAV. SCI. INST, 66-67, PRIN. INVEST, 67- Guest lectr, George Washington, 57-60; California, Los Angeles & California, San Diego, 63-65; assoc. prof, San Diego State Col, 67. Group leader, Nat. Inst. Ment. Health Exp. Int. Living Prog, Mexico, summer 58, dir. eval. study, summers, 60, 61. Res. consult, Med. Nuclear Consult, 57-60; consult, Proj. Cause & Nat. Defense Ed. Act Counseling & Guid. Inst, 61-; Calif. Dept. Employ, 64- U.S.M.C, 47-49. AAAS; Sociol. Asn; Nat. Coun. Family Rels. Culture of poverty, marriage and the family; sociology of education and applied sociology. Publ: Co-auth, Social profile of a poverty area, Calif. Book Co, 66; auth, Toward a student-centered marriage course, Marriage & Family Living, 5/59; co-auth, Sociology and educational policy, In: Sociology in action, Dorsey, 66. Address: Western Behavioral Sciences Institute, 1150 Silverado, La Jolla, Calif. 92037.

GILLIAM, DR. BOBBY JOE, b. Granbury, Tex, July 31, 32; m. 54; c. 3. PSYCHOLOGY. B.A, Harding Col, 54, M.A.T, 57; Ed.D.(guid), Auburn, 61. Asst. prof. ed. & psychol, HARDING COL, 61-65, ASSOC. PROF. PSYCHOL. & SOCIOL. & CHMN. DEPT, 65-, DIR. TESTING & COUNSELING, 61- Summers, vis. prof, sch. ed, Auburn, 64, Nat. Sci. Found. fel, Inst. Psychol. Teachers, Univ. Michigan, 67. Predicting academic success of college applicants and freshmen; individual differences of school age children; the disadvantaged child. Publ: Co-auth, A study of secondary teacher knowledge of pupils as related to selected pupil characteristics, Bull. Nat. Asn. Sec. Sch. Prins, 10/62. Address: Dept. of Psychology & Sociology, Harding College, Searcy, Ark. 72143.

GILLIAM, PROF. McCLUER, b. Richmond, Va, Dec. 22, 18; m. 50; c. 3. POLITICAL SCIENCE. B.A, Va. Mil. Inst, 40; M.A, Virginia, 51; M.A, Princeton, 54, Ph.D, 61. Master, Va. Episcopal Sch, 46-47, 48-49; instr. econ, VA. MIL. INST, 49-51, hist, 51-54, asst. prof, 54-61, assoc. prof. HIST. & GOVT, 61-66, PROF, 66- Asst, documents div, Alderman Library, Virginia, 48; preceptor, Princeton, 53; participant China summer seminar, Univ. Virginia Asian Inst, 66. U.S.A, 41-46, Lt. Col. Polit. Sci. Asn. Analysis of the published writings of Alfred T. Mahan; state and local government; Israeli government and politics. Publ: Co-ed, Readings in Virginia government, Va. State Chamber Commerce, 65. Address: Box 612, Lexington, Va. 24450.

GILLIAM, RONALD R(OY), b. Los Angeles, Calif, Oct. 24, 31; m. 56; c. 3. GEOGRAPHY. B.A, California, Los Angeles, 53, M.A, 59; Bonn, 57-58. Jr. soc. scientist, Rand Corp, 55-57; asst. Russian & East European Studies, California, Los Angeles, 58-59; mem. tech. staff, Ramo-Wooldridge Corp, 59-60; sr. human factors specialist, Syst. Develop. Corp, 60-62; geogr, U.S. Govt, 62-63; opers. analyst, Res. Anal. Corp, Va, 63-68, Thailand, 65-67; SR. OPERS. RES. ANALYST, RES. & DEVELOP. DIV, LOCKHEED AIRCRAFT CORP, 68- Consult, Ramo-Wooldridge Corp, 61. U.S.M.C, 53-55, Res, 56-, Maj. AAAS; Asn. Am. Geog; Am. Geog. Soc; Opers. Res. Soc. Physical and social-environmental relations in insurgency; systems analysis of counterinsurgency operations; regional planning and development; environmental aspects of military systems evaluation. Address: 1194 W. Vanderbilt Court, Sunnyvale, Calif. 94087.

GILLIES, DEAN JAMES, b. Teeswater, Ont, Nov. 2, 24; nat; m. 54; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Western Ontario, 46; A.M, Brown, 49; Ph.D.(econ), Indiana, 52. Head mortgage res. sect, econ. res. div, Cent. Mortgage & Housing Corp, Ont, 49-50; prof. real estate & urban land econ. & asst. dean grad. sch. bus. admin, California, Los Angeles, 51-65; DEAN FACULTY ADMIN. STUDIES & V.PRES. UNIV, YORK (ONT), 65- Econ. adv, Trailer Coach Asn; Bldg. Contractors Asn. Calif. Consult, Stanford Res. Inst; Housing & Home Finance Agency; Can. Civil Liberties Asn, 66-; Can. Inst. Pub. Affairs, 66-; Inst. Can. Bankers, 67-; Export Adv. Coun, 67- Mem, Los Angeles Community Redevelop. Agency. R.C.A.F, 44-45. Econ. Asn; Finance Asn; Real Estate & Urban Econ. Asn. Urban land economics; industrial location; mortgage finance. Publ: Institutional residential mortgage lending in Los Angeles County, 1946-1951; Management in the construction industry; Metropolis: values in conflict, Wadsworth, 64. Address: York University, Toronto 12, Ont, Can.

GILLILAND, C(ELMA) B(UNYAN), b. Beebe, Ark, Aug. 8, 08; m. 41; c. 2. MARKETING. B.S, Arkansas, 34; M.S, Wisconsin, 39. County agr. agent, Ark, 34-37; asst. state 4-H Club agent, 37-38; mkt. specialist, agr. mkt. admin, U.S. DEPT. AGR, 39-43, mkt. specialist & asst. to dir. fats & oils br, prod. & mkt. admin, 46-48, mkt. res. specialist, 48-53, agr. economist mkt. res. div, agr. mkt. serv, 54-60, off. admin, agr. res. serv, 60-61, asst. dir. Off. Rural Areas Develop, 61-62, dep. dir, 62-65, dir. prog. opers. div, RURAL COMMUNITY DEVELOP. SERV, 65-66, ASST. TO ADMIN, 67- Mem. bd. dirs, Orgn. Prfnl. Employees Dept. Agr, 63- Superior Serv. award, U.S. Dept. Agr, 64; Golden Key award, Nat. 4-H Alumni, 66. U.S.N, 43-46, Lt. Agr. Econ. Asn. Rural areas development; marketing of oilseeds; fats and oils and their products; cotton and cotton products; tobacco; sugar. Publ: Co-auth, Fats and oils, 54, auth, Technical services in planning, 63 & co-auth, Where vision is, 65, Yearbook Agr, U.S. Dept. Agr. Address: U.S. Dept. of Agriculture, South Bldg, Washington, D.C. 20250.

GILLILAND, PROF. C(HARLES) E(DWARD), JR, b. Austin, Tex, Mar. 2, 16; m. 48; c. 2. ECONOMICS, BUSINESS FINANCE. B.S, Harvard, 38; M.S.B.A, Washington (St. Louis), 47, Ph.D, 56. Asst. to dean, sch. bus. & pub. admin, Washington (St. Louis), 48-54, prof. mgt. from univ. & chief of party, ed. proj. to Korea, Int. Co-op. Admin, 58-60; dean sch. bus. admin, Univ. Kansas City, 54-58; acting chmn. econ. dept, Arizona State, 60; PROF. FINANCE, TEMPLE, 60-, dean sch. bus. admin, 60-65. Adv, Agency Int. Develop, & Temple Univ. contract, Inst. Bus. Admin, Karachi, Pakistan, 65-66. U.S.A.A.F, 41-45. Econ. Asn; Finance Asn. Managerial economics, depreciation in business enterprise. Address: School of Business Administration, Temple University, Broad St. & Montgomery Ave, Philadelphia, Pa. 19122.

GILLIM, PROF. MARION HAMILTON, b. Owensboro, Ky, Apr. 12, 09. ECONOMICS, STATISTICS. A.B, Mt. Holyoke Col, 30; A.M, Columbia, 38, scholar, 39-41, Ph.D, 44. Instr. econ. & sociol, N.J. Col. for Women, Rutgers, 41-42; Mt. Holyoke Col, 42-44, asst. prof, 44-48, assoc. prof, 48-51; ECON, BARNARD COL, COLUMBIA, 52-62, PROF, 62-, chmn. dept, 55-62. Brookings res. prof, 58-59. Consult, U.S. Bur. Labor Statist, Cent. Am. & S.Am, 49-52; economist, ECLA, Mexico City, 64-65. Econ. Asn; Statist. Asn; Tax Inst; Acad. Polit. Sci; Int. Inst. Pub. Finance; Int. Fiscal Asn. Public finance. Publ: The incidence of excess profits taxation; The fiscal aspects of the Central American Common Market & Some fiscal aspects of the Latin American Free Trade Association, In: Fiscal harmonization in common markets, Columbia. Address: Dept. of Economics, Barnard College, Columbia University, New York, N.Y. 10027.

GILLIN, PROF. JOHN P(HILIP), b. Waterloo, Iowa, Aug. 1, 07; m. 34; c. 1. ANTHROPOLOGY. B.A, Wisconsin, 27, M.A, 30; Berlin & London, 28; A.M, Harvard, 31, traveling fel, British Guiana, 32-33, Ph.D.(anthrop), 34. Asst. sociol, Wisconsin, 29; anthrop, Harvard, 31-32; instr, Sarah Lawrence Col, 33-34; mem. staff, Peabody Mus, Harvard, 34-35; instr. sociol. & anthrop, Utah, 35-36, asst. prof. anthrop. & curator mus, 36-37; asst. prof. anthrop, Ohio State, 37-41; assoc. prof, Duke, 41-46; prof. & res. prof, North Carolina, 46-59; prof. anthrop. & dean div. soc. sci, PITTSBURGH, 59-62, RES.

PROF. ANTHROP, 62- Carnegie res. fel, Yale, 40-41; res. assoc, Carnegie Instn; fel, Center Adv. Study Behav. Sci, 54-55. Mem. cmt. S.Am. anthrop, Nat. Res. Coun, 41-51, chmn, 45-51, mem. cmt. child develop, 48-56, disaster studies group, 53-59. Mem, Logan Mus. exped, Algeria, 30; Lab. Anthrop. exped, Mescalero Apache, 31; leader, Harvard exped, Brit. Guiana, 32-33, Peabody Mus. exped, Ecuador, 34-35; Utah exped, 36; Peabody Mus-Utah exped, 37; Ohio State field work, Chippewa of Wis, 38, 39; field work, Guatemala; Peru, 44-45; Colombia, 46; Ecuador, 51; Latin America; field work & consult, China Lake, Calif, 63; Guatemala, 64; Puerto Rico, 65; Cent. Am, South Pacific & Far East, 66. AAAS; fel. Anthrop. Asn. (pres, 65-66); Soc. Appl. Anthrop. (pres, 59-60); Sociol. Asn; fel. Ethnol. Soc; fel. Inter-Am. Soc. Anthrop. & Geog; hon. mem. Soc. Geog. & Hist. Guatemala. Social anthropology of Latin America; modern culture of the South; theory of culture. Publ: Co-auth, For a science of social man; Social change in Latin America today; auth, Culture of security in San Carlos. Address: Dept. of Anthropology, University of Pittsburgh, Pittsburgh, Pa. 15213.

GILLINGHAM, PROF. J(OHN) B(ENTON), b. Springdale, Wash, Oct. 13, 12. ECONOMICS. A.B. State Col. Wash, 39; A.M. Wisconsin, 41. Asst. Wisconsin, 41-42; asst. to pres, Montana, 45-46; asst. prof. econ, Wayne, 46-47; from asst. prof. to ASSOC. PROF. ECON. & CHMN. DEPT. WASHINGTON (SEATTLE), 47- U.S.N.R, 42-46, Lt. Econ. Asn; Sociol. Asn; Indust. Rel. Res. Asn; Acad. Arbit. Industrial relations; American trade unionism; labor movements. Publ: Health and welfare plans in the Northwest; Teamsters union on the West Coast. Address: Dept. of Economics, University of Washington, Seattle, Wash. 98105.

GILLIS, HARRY A(RTHUR), JR, b. Washington, D.C, Mar. 2, 21; m. 47; c. 1. ECONOMICS. B.A, Ohio Wesleyan, 42; M.A, George Washington, 50; Stanford. Economist Latin Am. cent. banking & exchange controls, Bd. Governors, Fed. Reserve Syst, 47-51; int. economist int. financial probs, U.S. Dept. State, 51-53; economist, Transam. Corp, 53-58; West. Bancorp, 58-61; indust. economist, Stanford Res. Inst, 61-66; ECONOMIST, TRANSAM. RES. CORP, 66- U.S.A.A.F, 42-45. AAAS; Mgt. Asn. Address: 13892 Winthrope St, Santa Ana, Calif. 92705.

GILLIS, CAPT. JOHN S(IMON), U.S.A.F, b. Washington, D.C, Mar. 21, 37; m. 59; c. 3. PSYCHOLOGY. B.S, Stanford, 59; univ. fel, Cornell, 59-60, M.S, 61; Nat. Inst. Ment. Health fel, Colorado, 63-64, Ph.D.(psychol), 65. U.S. AIR FORCE, 64-, instr. PSYCHOL, U.S. AIR FORCE ACAD, 64-65, asst. prof, 65-67, ASSOC. PROF, 67. Res. grants, U.S. Army Med. Res. & Develop. Command, 65-66 & Nat. Inst. Ment. Health, 66-67. Psychol. Asn. Schizophrenia; cognitive processes; psychoactive chemicals. Publ: The historical preconditions of representative design in psychology, In: The psychology of Egon Brunswik, Holt, 65; The sense of responsibility among young workers, Occup. Psychol, 101-111, The effects of amphetamine and chlorpromazine on cognitive skills in normal adult males, Proc. Fifth Annual Meeting of Am. Col. Neuropsychopharmacol. Address: Dept. of Psychology, U.S. Air Force Academy, Colo. 80840.

GILLIS, DR. JOHN (WILLIAM), b. Urbana, Ill, June 7, 29; m. 54; c. 2. PSYCHOLOGY. A.B, Illinois, Urbana, 52, M.A, 55; Ph.D.(counseling), Purdue, 58; London, 58-59. Asst. prof. psychol. & asst. dean men, Illinois State, 59-64, assoc. prof. & dean men, 64-67; EXEC. ASSOC, ASN. AM. COLS, 67- Res. fel, center study higher ed, Univ. Michigan, 66-67. U.S.A, 52-54. Psychol. Asn. Study of college and university environments and student attitudes. Publ: Co-auth, A study of the Purdue University engineering graduate, Purdue Eng. Bull, 60; auth, Personality characteristics of future teachers, E. & Psychol. Measurement, 64; Student-faculty perceptions of the academic climate of teacher education, Illinois State Univ. Bull, 66. Address: 1818 R St. N.W, Washington, D.C. 20009.

GILLIS, PROF. RICHARD M(cIVER), b. Brighton, Ala, July 11, 24; m. 48; c. 1. ECONOMICS, FINANCE. B.B.A, Tulane, 52; Am. Security Indust. fel, Pennsylvania, 52, univ. fel, 52-53, M.B.A, 53; univ. fel, Oregon, 60, D.B.A. (statist), 63. Instr. finance, Massachusetts, 53-54, asst. prof, 54-56; assoc. prof. ECON, WILLAMETTE, 56-63, PROF, 63-, HEAD DEPT, 60- Am. Security Indust. faculty fel, 66. Del, Danforth Small Col. Conf, 59; attend, pub. utility seminar, 67. U.S.N, 43-46, Lt.(jg). Econ. Asn; Finance Asn. Application of statistics to investment. Publ: Multiple correlation analysis of certain variates effecting equities; Formula plan approach to investments. Address: Dept. of Economics, Willamette University, Salem, Ore. 97301.

GILLMOR, PROF. DONALD M, b. Ft. Frances, Ont, Apr. 27, 26; m. 49; c. 2. MASS COMMUNICATION, JOURNALISM. B.A, Manitoba, 49; M.A, Minnesota, 50, Danforth fel, 59-60, Ph.D.(mass commun), 61. Prof. journalism, North Dakota, 52-60, dir. honors prog, 61-65; PROF. JOURNALISM & MASS COMMUN. & DIR. GRAD. STUDIES, MINNESOTA, MINNEAPOLIS, 65- Bibliog. ed, Journalism Quart, 63-68. Charter mem, Fair Trial-Free Press Coun, Minn, 66- Distinguished teacher award, Univ. North Dakota, 58. Asn. Ed. in Journalism. Mass media as social institutions; the law of mass communications. Publ: Free press and fair trial, Pub. Affairs, 66; The puzzle of pornography, Journalism Quart, summer 65; The Reardon report: a journalistic appraisal, Wis. Law Rev, 3/67. Address: School of Journalism & Mass Communication, University of Minnesota, Minneapolis, Minn. 55455.

GILLMORE, DR. CURRY W(ILLIAM), b. Snyder, Tex, Mar. 12, 22; m. 45; c. 3. ECONOMICS. B.A, Texas, 45, M.A, 47; Am. Securities bus. scholar, Columbia, 50, Ph.D.(econ), 52. Instr. polit. econ, Hopkins, 49-51; chief anal. studies sect, econ. studies br, Bur. Old-Age Survivors Ins, 51-56; economist, dept. statist. & econ, INT. BUS. MACH. CORP, 56-58, mgr, dept. econ, 58-59, DIR, statist. & econ, 59-66, MGT. SCI. SERV, 66- Consult, Bus. Coun, 60-; subcmt, President's Adv. Cmt. Labor-Mgt. Policy, 61- U.S.A, 45-46. Econ. Asn; Econometr. Soc; Finance Asn; Acad. Polit. & Soc. Sci; Inst. Mgt. Sci. Management science; operations research; simulation of the firm; econometrics; finance. Publ: Employment, wages and insurance status of workers in covered employment, In: Handbook of old age and survivors insurance statistics, 53; Trust funds and national output, South. Econ. J. Address: 688 Long Hill Rd, Briarcliff Manor, N.Y. 10510.

GILLOOLY, DR. WILLIAM B(ERNARD), b. Medford, Mass, Aug. 12, 34; m. 57; c. 3. EDUCATIONAL PSYCHOLOGY. B.S.Ed, Mass. State Col. Salem, 57; Buchner fel, Hopkins, 61, Ph.D.(ed. psychol), 64. Lectr. ED. PSYCHOL, Hopkins, 63-64, asst. prof. 64-67; ASSOC. PROF, RUTGERS, 67- U.S.N, 57-60, Lt. Psychol. Asn; Ed. Res. Asn. School learning; verbal learning; literacy instruction; psycholinguistics; educational theory. Publ: The effect of familiarization instructions on associative latency and learning, 66 & A two-stage analysis of the effects of familiarization instructions on learning, 67, Psychonomic Sci; The use of i.t.a. in special education: a critical review, J. Spec. Ed, 67. Address: 6 Buttonwood Dr, Somerset, N.J. 08873.

GILMAN, PROF. GLENN W(ILLIAM), b. Waupaca Co, Wis, Aug. 9, 11; m; c. 1. SOCIAL PSYCHOLOGY. B.S, Cent. State Teachers Col, Wis, 41; M.S, Ga. Inst. Tech, 47; Ph.D.(sociol), Chicago, 55. Asst. to dean grad. div, GA. INST. TECH, 45-52, assoc. prof. INDUST. MGT, 47-52, prof, 52-67, REGENTS' PROF, 67- U.S.M.C, 43-45, Col. Sociol. Asn; Indust. Rels. Res. Asn; Industrial organization; social development and role of the entrepreneur; the behavioral foundations of management; social values and economic development. Publ: Human relations in the industrial Southeast; An inquiry into the nature and use of authority; The ethical dimension in American management, Calif. Mgt. Rev, summer 64. Address: School of Industrial Management, Georgia Institute of Technology, Atlanta, Ga. 30332.

GILMAN, JOHN RICHARD, JR, Astrophys, see 11th ed, Phys. & Biol. Vols.

GILMAN, DR. RICHARD C(HAPMAN), b. St. Louis, Mo, Apr. 22, 34. SOCIOLOGY. Bach.Journalism, Missouri, Columbia, 55; M.A, Chicago, 64, Ph.D. (sociol), 67. Proj. assoc, health info. found, Chicago, 64-65, res. asst, study of careers in ment. health, 65-67; staff sociologist, urban studies center, MISSOURI, ST. LOUIS, 67-68, ASST. PROF. SOCIOL-ANTHROP. & ASST. TO DEAN, 68- U.S.A, 55-57. AAAS; Sociol. Asn. Study of occupations and professions; sociology of higher education; computer data processing. Publ: Co-auth, Tables for Yule's Q association coefficient for pairs of percentages, Nat. Opinion Res. Center, 65. Address: Dept. of Sociology-Anthropology, University of Missouri, St. Louis, Mo. 63121.

GILMAN, SPENCER S(TUART), b. Hudson, S.Dak. Dec. 26, 23; m. 54; c. 2. ECONOMICS. B.J, Missouri, 47; M.S, Utah, 54; California, 54-55. Chief economist, West. Pac. R.R. San Francisco, 55-63; asst. dir. Port of Oakland, 63-65; ASST. COUNTY EXEC. ECON. DEVELOP, SANTA CLARA COUNTY, 66- U.S.A, 43-46; U.S.A.F, 51-52, Res, 52-, Maj. Econ. Asn. Economic outlook for the Western region of the United States; efficiency standards for capital investment by local governments. Publ: Western automotive industry; Outlook for coal in the West; Pulp and paper in the West to 1970. Address: 6549 Crystal Springs Dr, San Jose, Calif. 95120.

GILMARTIN, DR. WILLIAM M(ICHAEL), b. Sparks, Nev, Mar. 30, 13; m. 45; c. 3. ECONOMICS. A.B, Nevada, 34; Soc. Sci. Res. Coun. fel, California, 41-42, Ph.D.(econ), 42. Asst. econ, California, 37-41; economist, INT. BANK RECONSTRUCT. & DEVELOP, 46-56, spec. rep, Thailand, 56-58, adv. econ, Far East dept, 58-67, RESIDENT REP, INDIA, 67- U.S.A, 42-46, Capt. Econ. Asn. Economic development of underdeveloped areas. Address: 7 Sardar Patel Marg, New Delhi, India.

GILMER, PROF. B(EVERLY) VON HALLER, b. Draper, Va, June 15, 09; m. 34; c. 1. PSYCHOLOGY. B.S, King Col, 30; M.S, Virginia, 32; Ph.D. (psychol), 34. Prof. PSYCHOL, King Col, 34-36; instr, Carnegie Inst. Tech, 36-37, asst. prof, 37-42, assoc. prof, 46; Virginia, 46-47; PROF, CARNEGIE-MELLON UNIV, 47-, head dept, 47-62. U.S.A.A.F, 42-46. Fel. Psychol. Asn. Communication; human relations in industry; organizational climates. Publ: Industrial psychology, 2nd ed, 66 & Applied Psychology, 67, McGraw. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

GILMORE, PROF. EUGENE A(LLEN), JR, b. Madison, Wis, Dec. 27, 02; m. 38. ECONOMICS. B.A, Wisconsin, 24, Ph.D.(econ), 35; M.B.A, Harvard, 26. Credit analyst, Irving Trust Co, N.Y, 26-28; instr. econ, Southern California, 30-33, 34-35; res. asst. banking, Columbia, 33-34; asst. prof. econ, Nebraska, 35-38, assoc. prof, 38-41; sr. economist, U.S. Dept. State, D.C, 41-47, for. serv. officer, 47-61; PROF. ECON, BAYLOR, 65- Econ. Asn; Soc. Int. Develop. International trade and finance; money and banking; economic development. Publ: Monetary theories of Hawtrey, Hayek, Keynes and Robertson, Univ. Wis. Thesis Abstract Series, 36; Adequacy of deposit banking facilities in Nebraska, Univ. Nebr. Bur. Bus. Res, 37. Address: Dept. of Economics, Hankamer School of Business, Baylor University, Waco, Tex. 76706.

GILMORE, JOHN STORRIER, b. Emporia, Kans, May 9, 22; m. 50; c. 2. ECONOMICS. B.A, Colorado Col, 45; Stanford, 59; M.A, Denver, 63. Clerk econ. forecasting, Mt. States Tel. Co, Colo, 45-46, traveling auditor, 46-49, reports statistician, 49-51; staff assoc. personnel admin, Mt. States Employers Coun, 51-53; ed. & publisher, Forum Newspapers, 53-59; res. economist, DENVER RES. INST, UNIV. DENVER, 60-66, SR. RES. ECONOMIST, 66- Consult, Martin-Denver Div, Martin-Marietta Corp, 65; Menninger Found, 68. Chmn. econ. study & adv. cmt, Inter-County Regional Planning Cmn, Denver, 66- C.Eng, U.S.A, 42-43. Econ. Asn; Soc. Pub. Admin. Institutions generating and applying new technology; defense firms and industry; regional economics. Publ: Co-auth, The channels of technology acquisition in commercial firms, Clearinghouse, 67; Defense systems resources in the civil sector, Govt. Printing Off, 67; Diversification guides for defense firms, Harvard Bus. Rev, 5-6/66. Address: 2474 S. Jackson St, Denver, Colo. 80210.

GILMORE, PROF. JOHN V(AUGHN), b. Enon Valley, Pa. May 4, 07; m. 44; c. 3. PSYCHOLOGY. A.B, Allegheny Col, 30; Ed.M, Pittsburgh, 42, Litt.M, 43; Ed.M, Harvard, 42, Ed.D.(ed. psychol), 47. Psychologist, Judge Baker Guid. Clin, Boston, Mass, 43-45; clin. psychologist, counseling off, BOSTON, 45-47, chief psychologist, 47-49, assoc. prof. PSYCHOL, 47-62, PROF, 62-, chmn. cmt. training counseling psychologists, 52-62. Dir. asn. sch, YMCA, Mass, 43-45; clin. psychologist, Mass. Inst. Tech, 50-52. Consult, training unit prog, Vet. Admin, 53-; soc. security, health, ed. & welfare, 62- AAAS; Psychol. Asn; Orthopsychiat. Asn; Personnel & Guid. Asn. Diagnosis of reading difficulties; non-intellectual factors in academic achievement; projective tests; techniques of counseling with parents of average academic

achievers. Publ: Gilmore sentence-completion; New venture in the study of motivation; Parental counseling and academic achievement, J. Ed, 2/67. Address: 105 Albion Rd, Wellesley Hills, Mass. 02181.

GILMORE, DR. J(ON) B(ARNARD), b. Oakland, Calif, May 31, 37; m. 63. PSYCHOLOGY. B.A, Stanford, 59; M.S, Yale, 61, Ph.D.(psychol), 64. Faculty mem. develop. psychol, Merrill-Palmer Inst, 63-64; asst. prof. PSYCHOL, Waterloo, 64-66, ASSOC. PROF, 66-68; TORONTO, 68- AAAS; Soc. Res. Child Develop; Psychol. Asn. Developmental, clinical and social psychology; determinants of play behavior. Publ: Play: a special behavior, In: Current research in motivation, Holt, 343-355, 66; The role of anxiety and cognitive factors in children's play behavior, Child Develop, 37: 397-416, 66; Toward an understanding of imitation, 1967 Miami Univ. Symp. on Soc. Behavior: social facilitation and imitation behavior, Allyn & Bacon, 68. Address: Dept. of Psychology, University of Toronto, Toronto, Ont, Can.

GILMOUR, DR. C(HARLES) EDWIN, b. Blairsville, Pa, Sept. 15, 18; m. 47; c. 3. POLITICAL SCIENCE. B.A, Westminster Col, 40; M.B.A, Pennsylvania, 42, M.G.A, 46, Ph.D, 51. Asst. govt. res, Gen. Assembly, Pa, 41-42; inst. local & state govt, Pennsylvania, 46-47, instr. POLIT. SCI, 47-49; GRINNELL COL, 49-51, asst. prof, 51-58, ASSOC. PROF, 58-, DIR. PROG. PRACTICAL POLIT. ED, 59- Summers, vis. prof, Iowa State, 64, 68. Consult, U.S. Off. Econ. Opportunity, 66-; dir. Off. Economic Opportunity, State of Iowa, & mem. exec. bd, Nat. Assoc. Community Develop, 65-66. U.S.A.A.F, 42-46, Sgt. Polit. Sci. Asn; Soc. Pub. Admin. Need and feasibility of legislative reapportionment in Iowa general assembly; analysis of efficacy of political party activity in affecting electoral decisions and public officials in Iowa. Publ: General staff function in the administration of the Commonwealth of Pennsylvania; Proposed retirement system for public employees in Delaware; Comparative analysis of the administration of the state and county personal property tax acts in Pennsylvania. Address: 532 Ninth Ave, Grinnell, Iowa 50112.

GILMOUR, DR. ROBERT S, b. Philadelphia, Pa, May 16, 40; m. 60; c. 2. POLITICAL SCIENCE. B.A, Florida, 62, Nat. Center Ed. Polit. fel. & M.A, 63; Resources for the Future fel. & Ph.D.(polit. sci), Columbia, 68. Soc. Sci. Res. Coun. fel, COLUMBIA, 67-68, instr. POLIT. SCI, 68, ASST. PROF, 68- Polit. Sci. Asn. American politics and public administration; empirical political theory and methodology; state and urban government. Publ: Changing political needs and the budgetary process in Florida, Pub. Admin. Clearing Serv, 64; A planning-programming-budgeting system, Proc. Acad. Polit. Sci, 67. Address: 542 W. 112th St, Apt. 1-A, New York, N.Y. 10025.

GILNER, DR. FRANK H(OWARD), b. Atlanta, Ga, Oct. 6, 37; m. 59; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 59; M.A, Vanderbilt, 62; Ph.D.(psychol), Purdue, 67. Psychol. exam, Cloverbottom Hosp. & Sch, 61-62; instr. teaching, Purdue, 66-67; ASST. PROF. PSYCHOL. ST. LOUIS, 67- Consult, John Cochrane Vet. Admin. Hosp, 67- Interpersonal relations; personality theory; psychotherapy. Publ: Co-auth, Factor analysis of self-report statements of love relationships, J. Individual Psychol, 11/64. Address: Dept. of Psychology, St. Louis University, 221 N. Grand, St. Louis, Mo. 63103.

GILPATRICK, DR. M(EREDITH) P(ERRY), b. Milwaukee, Wis, Oct. 18, 04. POLITICAL SCIENCE. Ph.B, Chicago, 25, Ph.D, 57; LL.B, Southern California, 28. Instr, Williams Col.(Mass), 37-38; Beloit Col, 38-42; pub. opinion analyst, Off. War Info, 42; econ. analyst, Bd. Econ. Warfare, 42-43; legal analyst, U.S. Dept. Commerce, 43-45; attache, U.S. Embassy, China, 45-46; asst. prof. polit. sci, Ohio State, 46-51; Fulbright prof, Austria, 51-52; vis. lectr, Pa. Col. for Women, 54-55; head, Bibliographic Res, 55-60; analyst, State Legis. Serv. Cmn. Ohio, 61-62; Ohio archivist, Ohio Hist. Soc, 62-68. Bar Asn. International relations; status of law and law making procedure under the Kuomintang 1926-1946; military strategy on the western front 1871-1914. Address: 212 W. Riverglen Dr, Worthington, Ohio 43085.

GILPATRICK, DR. THOMAS V(ANCE), b. Plano, Ill, Apr. 5, 23; m. 49; c. 2. POLITICAL SCIENCE. B.S, Illinois, 48, M.A, 51; Baker fel, Chicago, 55-56; Ph.D, 56. Instr. polit. sci, Pa. State, 56-59; asst. prof. GOVT, SWEET BRIAR COL, 59-63, ASSOC. PROF, 63-, chmn. div. soc. studies, 63-66. Fulbright prof. U.S.-India Women's Col. Exchange, Osmania Univ. Women's Col, Hyderabad, India, 66-67. U.S.A, 43-46, Sgt. Polit. Sci. Asn. American political policy determination, both foreign and domestic. Publ: Price support policy and the Midwest farm vote, Midwest J. Polit. Sci. Address: Dept. of Government, Sweet Briar College, Sweet Briar, Va. 24595.

GILPIN, DR. ROBERT (GEORGE), b. Burlington, Vt, July 2, 30; m. 55; c. 3. POLITICAL SCIENCE. B.A, Vermont, 52; M.S, Cornell, 54; Ph.D.(polit. sci), California, Berkeley, 60. Res. fel. prog. sci. & pub. policy, Harvard, 60-61; lectr. polit. sci. & assoc. dir. coun. atomic age studies, Columbia, 61-62; asst. prof. POLIT. & PUB. AFFAIRS, PRINCETON, 62-67, ASSOC. PROF, 67- Res. fels, Rockefeller Found. & Soc. Sci. Res. Coun, 64-65. Consult, Rand Corp, Atomic Energy Cmn. & President's Off. Sci. & Tech. U.S.N, 54-57. AAAS; Polit. Sci. Asn. International relations; science and politics. Publ: American scientists and nuclear weapons policy, 62 & France in the age of the scientific state, 68, Princeton; co-auth, Scientists and national policy making, Columbia, 64. Address: Woodrow Wilson School, Princeton University, Princeton, N.J. 08540.

GILSON, DR. JOHN F(RANCIS), b. New York, N.Y, May 14, 02. EDUCATIONAL PSYCHOLOGY. B.A, Woodstock Col, 28, M.A, 29; Ph.D, St. Louis, 43. Instr. ed, Georgetown, 41-42; ED. PSYCHOL, SCH. ED, FORDHAM, 42-44, asst. prof, 44-51, ASSOC. PROF, 51-, V.CHMN, GRAD. DIV, 58-, FOUNDER & DIR, VOCATION INST, 51- Lectr, Catholic Univ, 56; St. Joseph's Sem, 60; mem. adv. bd, Elizabeth Seton Col, 61- Consult, St. Vincent's Hosp. Sch. Nursing, 45- Psychol. Asn. Personality; character; vocational counseling; guidance. Address: School of Education, Fordham University, 302 Broadway, New York, N.Y. 10007.

GILSON, PROF. THOMAS Q(UINLEVAN), b. Summit, N.J, June 27, 16; m. 39; c. 3. INDUSTRIAL RELATIONS. A.B, Princeton, 38; M.A, Columbia, 42; Ph.D.(econ, soc. sci), Mass. Inst. Tech, 54. Asst. prof. psychol. & bus. admin, Clark, 46-50, assoc. dir. vet. guid. center, 46-47; asst. Sloan prog. for exec. develop, Mass. Inst. Tech, 50-52; assoc. prof. indust. rels, Rutgers, 52-56, prof, 56-64, chmn. mgt. prog, inst. mgt. & labor rels, 52-55, chmn. dept. mgt, univ. col, 55-64; PROF. MGT. & INDUST. RELS, COL. BUS. ADMIN, HAWAII, 64- Res. assoc, Harvard, 50-52. Assoc, Nat. Training Labs, 61. Psychol. Asn; Indust. Rels. Res. Asn; Acad. Arbit; Acad. Mgt. Executive appraisal and development. Publ: Co-auth, Executive skills: their dynamics and development, Prentice-Hall, 62; auth, Developing performance standards for supervisors, A.M.A, 55; A guide for determining management development requirements, Am. Bankers Asn, 67. Address: 4140-A Black Point Rd, Honolulu, Hawaii 96815.

GIMBEL, DR. JOHN, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GIMBUTAS, PROF. M(ARIJA), Archaeol, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

GIMELLI, DR. LOUIS B, Hist, Polit. Theory, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GINETT, DR. LYNDON ELMER, b. St. Albans, Vt, Apr. 24, 18; m. 54; c. 1. PSYCHOLOGY. A.B, Clark, 49; M.A, Houston, 58, Ph.D.(psychol), 62. Chief psychologist, Austin State Hosp, Tex, 61-63; psychologist, Atascadero State Hosp, 63-65; chief psychologist, Kern County Ment. Health Clin, 65-66; PSYCHOLOGIST, COROZAL HOSP, 66- Lectr, Florida State, 64-68. U.S.A, 42-46; U.S.A.F, 50-51, S/Sgt. Therapeutic methods; attitude change. Publ: Co-auth, Stability of performance by schizophrenics, J. Consult. Psychol, 4/64. Address: Box 2013, Balboa Heights, C.Z. 00072.

GINSBERG, DR. LEON H, b. San Antonio, Tex, Jan. 15, 36; m. 56; c. 3. SOCIAL WORK, POLITICAL SCIENCE. B.A, Trinity (Tex), 57; M.S.W, Tulane, 59; Ph.D.(polit. sci), Oklahoma, 66. Assoc. prof. soc. work, Oklahoma, 63-68; PROF. SOC. WORK & DIR. DIV. SOC. WORK, WEST VIRGINIA, 68- U.S.A, 57-58, Res, 58- Coun. Soc. Work Ed; Asn. Soc. Workers; Polit. Sci. Asn. Civil rights of the mentally ill; child care work in institutions; organization of the poor for community action; early childhood education. Publ: Mineral City: an experience in process-oriented community organization, J. Jewish Communal Serv, spring 66; Civil rights of the mentally disabled in Oklahoma, Okla. Law Rev, 5/67; Organization of the poor: threat or opportunity?, Pub. Welfare, 1/68. Address: Division of Social Work, College of Human Resources & Education, West Virginia University, Morgantown, W.Va. 26506.

GINSBURG, DR. NORMAN M(ORA), b. Passaic, N.J, June 10, 25. PSYCHOLOGY. M.A, Chicago, 49, Ph.D, 55. Nat. Inst. Ment. Health res. fel, psychol, 55-57; res. psychologist, N.Y. State Psychiat. Inst, 57-59; asst. prof. PSYCHOL, Roosevelt, 59-64; ASSOC. PROF, State Univ. N.Y, 64-66; ALBERTA, 66- Psychol. Asn. Visual perception response to intermittent light; language behavior; bird vocalization and speech. Publ: Matching in pigeons, 57 and Conditioned talking in the mynah bird, 63, J. Comp. & Physiol. Psychol; Local adaptation to intermittent light, Am. J. Psychol, 66. Address: Dept. of Psychology, University of Alberta, Edmonton, Alta, Can.

GINSBURG, PROF. NORTON S, b. Chicago, Ill, Aug. 24, 21. GEOGRAPHY. A.B, Chicago, 41, M.A, 47, Ph.D.(geog), 49. From instr. to assoc. prof. GEOG, CHICAGO, 47-60, PROF, 60-, ASSOC. DEAN DIV. SOC. SCI, 67-, assoc. dean, col, 63-66. Fulbright res. scholar, Hong Kong & Malaya, 50-51. Sr. spec, East-West Center, 66-67; mem. cmt. on geog, Nat. Acad. Sci-Nat. Res. Coun, 66-; U.S. nat. cmn, UNESCO, 67- Asn. Am. Geog.(secy, 63-66); Am. Geog. Soc; Asn. Asian Studies. Geography of Asia; urban and political geography; methodology of social sciences. Publ: Atlas of economic development; ed, Pattern of Asia; co-auth, Malaya, Washington Univ, 58. Address: Dept. of Geography, University of Chicago, Chicago, Ill. 60637.

GINSBURGS, DR. GEORGE, b. Shanghai, China, Feb. 13, 32; nat; m. 59; c. 1. POLITICAL SCIENCE. B.A, California, Los Angeles, 54, M.A, 57, Ph.D. (polit. sci), 60; Ford Found. fel, Columbia, 57-58, Soc. Sci. Res. Coun. fel, 59-60. Lectr. & instr. POLIT. SCI, California, Los Angeles, 59; asst. prof, Iowa, 61-66; ASSOC. PROF, GRAD. FACULTY, NEW SCH. SOC. RES, 66- U.S.A, 54-56. Soc. Int. Law. International relations and law; comparative government. Publ: Co-auth, Communist China and Tibet: the first dozen years, Nijhoff, 64; auth, Soviet citizenship law, Sijthoff, 67 & Soviet atomic energy agreements, Int. Orgn, winter 61. Address: Graduate Faculty, New School for Social Research, 66 W. 12th St, New York, N.Y. 10011.

GINTER, DR. DONALD EUGENE, Eng. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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GIORGI, DR. AMEDEO P(ETER), b. New York, N.Y, July 9, 31. PSYCHOLOGY. A.B, St. Joseph Col, 53; M.A, Fordham, 55, Ph.D, 58; New Sch. Soc. Res, 58-60. Asst. psychol, Manhattan Col, 56-57; proj. dir. human eng, Dunlap & Assocs, Inc, 57-60; asst. prof. psychol. & dir. psychol. res, Manhattan Col, 60-62; CHMN. DEPT. PSYCHOL, DUQUESNE, 62- Summer res. psychologist, U.S. Naval Training Device Center, 56. AAAS; Psychol. Asn. Psychological theory; experimental methodology; phenomenological psy-

chology; visual perceptual research. Publ: Phenomenology & experimental psychology I, 5/65, Phenomenology & experimental psychology II, 6/66 & A phenomenological approach to the problem of meaning and serial learning, 7/67, Rev. Existential Psychol. & Psychiat. Address: Dept. of Psychology, Duquesne University, Pittsburgh, Pa. 15219.

GIRAGOSIAN, DR. NEWMAN HERBERT, b. Binghamton, N.Y, July 18, 22; m. 60. MARKETING. B.S, Pa. State, 43 & 47; M.B.A, Pennsylvania, 51; Ph.D.(econ, mgt. & mkt), N.Y. Univ, 65. Prod. supvr, Allied Chem. Corp, 47-49; sr. technologist, Shell Chem. Co, 51-61; DIR. MKT. RES, GEN. ANILINE & FILM CORP, 61- U.S.N, 44-46, Res, 46-, Comdr. Chem. Soc; Commercial Chem. Develop. Asn; Chem. Mkt. Res. Asn. Publ: Marketing guide for the U.S. synthetic organic chemicals industry, Technomic Pub, 66; ed, Chemical marketing research, Reinhold, 67; auth, How do you measure up?, Chem. Week, 60. Address: 400 E. 89th St, New York, N.Y. 10028.

GIRARD, COSMAS, O.F.M, b. Cambridge, Mass, Dec. 4, 09. SOCIOLOGY. A.B, St. Bonaventure, 32; A.M, Columbia, 37; Ph.D, St. Louis, 55. Instr. soc. sci, Franciscan House of Studies, 37-43, 46-50; from asst. prof. to assoc. prof. SOCIOL, ST. BONAVENTURE, 55-65, PROF, 65-, CHMN. DEPT, 60-, dir. admissions, 55-60. U.S.A, 43-46. Sociol. Asn. Marriage and the family; communications and propaganda; community studies. Address: Dept. of Sociology, St. Bonaventure University, St Bonaventure, N.Y. 14778.

GIRDEN, PROF. EDWARD, b. New York, N.Y, Dec. 8, 07; m. 32; c. 1. PSYCHOLOGY. A.B, West Virginia, 30; M.A, Columbia, 31; fel, Illinois, 31-34, Ph.D.(psychol), 34. Tutor PSYCHOL, BROOKLYN COL, 34-36, instr, 37-41, asst. prof, 42-48, assoc. prof, 49-52, PROF, 53-, acting chmn. dept, 48-49, 55-56. Guggenheim fel, Rochester, 41-42; guest lectr, L.I. Med. Col, 43; res. assoc, Civil Aeronaut. Admin. Cmt. Selection Aircraft Pilots, Nat. Res. Coun, 43-45; T.W. Stanford fel, Stanford, 50-51, 58-59, Guggenheim fel, 58-59; guest lectr, Edinburgh Univ, 57. Res. consult, Dunlap & Assocs, 48-50. Award, Am. Philos. Soc, 37, 38, 46. AAAS; fel. Psychol. Asn; Soc. Exp. Biol. Neurophysiology of learning; pharmacology; human engineering; history of science. Publ: Conditioning & Parapsychology, 66, Encyclop. Britannica; Some neurological correlates of behavior, In: Theoretical foundations of psychology. Address: Dept. of Psychology, Brooklyn College, Brooklyn, N.Y. 11210.

GIRDNER, PROF. JOHN, b. Salt Lake City, Utah, May 7, 21; m. 49. PSYCHOLOGY. B.A, Utah, 44, M.A, 45; Ph.D.(psychol), Duke, 53. Intern. psychol, Rockland State Hosp. & N.Y. Psychiat. Inst, 44-45; clin. psychologist, Vet. Admin, Salt Lake City, 45-47; res. asst, Letchworth Village, Thiells, N.Y, 47-49; instr, Duke, 52-53; asst. prof. PSYCHOL, UNION (N.Y), 57-65, ASSOC. PROF, 65-, STUDENT COUNSR, 57- U.S.A, 42-43. Psychol. Asn. Higher motivation; developmental theory. Publ: Experimental analysis of the behavioral effects of a perceptual consequence unrelated to organic drive states; co-auth, Helping students adjust to college, Col. Admissions; Use of the Lowenfeld mosaic test with mental defectives, Am. J. Ment. Deficiency. Address: Dept. of Psychology, Union College, Schenectady, N.Y. 12308.

GIRONELLA, DR. OLIVA CARINO, b. Manila, Philippine Islands, Aug. 1, 34; m. 60; c. 4. PSYCHOLOGY. A.B, Philippines, 55; univ. fel, Nebraska, 55-59, Altrusa Int, Inc. fel, 55-56, M.A, 56, George Davis Bivin Co. fel, 56-58, Pi Gamma Mu fel, 57-58, Ph.D, 59. Asst. student counseling serv, Nebraska, 57-58, psychometrist, 58-59, instr, 59; staff counsr, Wisconsin, 59-61; staff consult, Midwest. Psychol. Servs, Wis, 61; child psychologist, Univ. Hosp, Alberta, 61-62; alcoholism counsr, Alcoholism Found. of Alberta, 62-64; treatment supvr, DIV. ALCOHOLISM, DEPT. PUB. HEALTH, 64-67; PROV. PSYCHOLOGIST, 67- Researcher, Wisconsin-Milwaukee, 60; instr, exten. div, Wisconsin, 60-61; staff psychologist, Cent. Wis. Colony & Training Sch, 60-61; lectr, Calgary, 66- Prov. del, Can. Found. on Alcoholism, 66 & chmn. planning cmt, 67-68. Psychol. Asn. Body mechanics and age; need patterns and satisfaction; infant intelligence scale. Address: 15103 Rio Terrace Dr, Edmonton, Alta, Can.

GISH, DR. IRA MONTGOMERY, Psychol, see 10th ed, Soc. & Behav. Vols.

GIST, PROF. NOEL P(ITTS), b. Hermitage, Mo, June 17, 99; m. 23; c. 2. SOCIOLOGY. B.S, Kans. State Teachers Col, 23; A.M, Kansas, 29; Chicago, 29; Ph.D, Northwestern, 35. Instr. SOCIOL, Kansas, 29-31, 32-34, asst. prof, 34-37; MISSOURI, 37-38, assoc. prof, 38-44, PROF, 45- Vis. prof, Wisconsin, 44-45; Fulbright res. scholar, India, 51-52, sr. lectr, 63-64; Fulbright lectr, Netherlands, 58-59; faculty fel, Community Studies, Inc, 60-61. U.S.N, 18-19. Sociol. Asn. Urban sociology; Anglo-Indian community in India and England, a racially-mixed minority group. Publ: Co-auth, Urban society, Crowell, 64; auth, Selective migration and occupational choice; Cultural vs. social marginality: the Anglo-Indian case, v Phylon, 12/67. Address: Dept. of Sociology, University of Missouri, Columbia, Mo. 65201.

GITELMAN, DR. ZVI YECHIEL, b. Bronx, N.Y, Nov. 4, 40. POLITICAL SCIENCE. A.B, Columbia, 62, M.A. & cert, Russian Inst, 65, Ph.D.(govt), 68; B. Heb. Lit, Jewish Theol. Sem, 62. Jr. fels, res. inst. communist affairs, & assoc. govt, Columbia, 66-68; ASST. PROF. POLIT. SCI, MICHIGAN, 68- Polit. Sci. Asn; Asn. Adv. Slavic Studies. Soviet and East European politics; comparative politics. Publ: The Jews (Soviet nationality policy), Probs. Communism, 9-10/67; The Jewish problem, Survey, 1/68. Address: Dept. of Political Science, University of Michigan, Ann Arbor, Mich. 48104.

GITHENS, DR. MARIANNE, b. New York, N.Y, Nov. 10, 37. POLITICAL SCIENCE. B.A, Marymount Manhattan Col, 56; Ph.D.(polit. sci), London Sch. Econ, 60. From instr. to asst. prof. POLIT. SCI, St. John's (N.Y), 60-65; ASST. PROF, GOUCHER COL, 65- Lectr, grad. sch, Catholic Univ, 65-; summers, Nat. Sci. Found. grant, Southern Methodist, 64, vis. prof, civics inst, Florida, 66 & Southern Univ, 67. Mem, Cmn. Reorgn. Exec. Br. Md. State Govt, 66-67. Polit. Sci. Asn; Soc. Int. Law; Int. Polit. Sci. Asn. Comparative politics, especially developed nations; problems of methodology in comparative politics; problems of systems stress in developed nations. Address: Dept. of Political Science, Goucher College, Towson, Md. 21204.

GITHENS, DR. WILLIAM HARVEY, b. Pittsburgh, Pa, July 7, 30; m. 53; c. 1. INDUSTRIAL PSYCHOLOGY. B.S, Allegheny Col, 52; M.S, Western Reserve, 55, Ph.D.(indust. psychol), 62. Personnel asst. indust. psychol, Cleveland Transit Syst, 53-54, personnel specialist, 58-62; RES. PSYCHOLOGIST, U.S. NAVY PERSONNEL RES. ACTIVITY, 62- Lectr, California, 65-; San Diego State Col, 67- U.S.C.G, 54-58, Lt. Psychol. Asn. Management development; structuring of work and the motivation to work; personnel research. Publ: Co-auth, Effects of correcting a research criterion of military performance for several situational variables, 63, auth, Measuring the motivation to work, 64 & Advances related to the definition and significance of individual performance evaluation in the armed forces: research findings and methodology in the United States Navy, 65, Am. Psychologist. Address: U.S. Navy Personnel Research Activity, San Diego, Calif. 92152.

GITLIN, PROF. SIDNEY, Clin. & Voc. Psychol, see 10th ed, Soc. & Behav. Vols.

GITLOW, PROF. A(BRAHAM) L(EO), b. New York, N.Y, Oct. 10, 18; m. 40; c. 2. LABOR ECONOMICS. A.B, Pennsylvania, 39; A.M, Columbia, 40, Ph.D, 47. Instr. ECON, SCH. COMMERCE, N.Y. UNIV, 47-50, asst. prof, 50-54, assoc. prof, 54-59, PROF, 59-, DEAN, SCH. COMMERCE, 65- Dir, Madison Ave. Properties, Inc. & Workingmen's Overall Supply Co, 63-; J.W. Mays, Inc, 67- Publ: Economics, Oxford Univ, 62; Labor and industrial society, Irwin, 63; The national wage policy, N.Y. Univ, 64. Address: School of Commerce, New York University, Washington Square, New York, N.Y. 10003.

GITTELL, DR. MARILYN, b. Brooklyn, N.Y, Apr. 3, 31; m. 50; c. 2. PUBLIC ADMINISTRATION. B.A, Brooklyn Col, 52; M.P.A, N.Y. Univ, 53, Ph.D, 60. Asst, Tax Found, 52-53, res. assoc, 53-54; lectr, Brooklyn Col, 54-55; res. assoc, Govt. Affairs Found, 55-59; asst. prof. POLIT. SCI, QUEENS COL. (N.Y), 59-67, PROF. & DIR. INST. COMMUNITY STUDIES, 67- Guest lectr, New Sch. Soc. Res, 60; U.S. Off. Ed. coop. res. grant, 66-67. Consult, Constitutional Convention Cmn, N.Y, 57; Coun. State Govts, 60-61; New York Republican Res. Cmn, summer, 61; Ford Found. & Mayor's Panel Sch. Decentralization, 67. Polit. Sci. Asn; Soc. Pub. Admin; Govt. Res. Asn. State and local government; political behavior and institutions in the metropolitan area; intergovernmental relations; political processes in the state and local government. Publ: Educating an urban society, Sage, 67; Participants and participation: a study of New York City school policy & co-auth, Six urban school systems: a comparative study of institutional response, Praeger, 67. Address: Dept. of Political Science, Queens College, 153-10 61st Rd, Flushing, N.Y. 11367.

GITTER, DR. A. GEORGE, b. July 22, 26; m. 53; c. 2. SOCIAL PSYCHOLOGY, COMMUNICATIONS. B.A, Virginia, 49; M.A, American Univ, 61, Ph.D.(soc. psychol), 64. Res. assoc. spec. opers. res. off, American Univ, 60-61; res. psychologist, U.S. Navy, 61-62; lectr, Lehigh, 62-63; ASST. PROF, Sweet Briar Col, 63-65; COMMUN, BOSTON, 65- Ford Found. res. grant, 63-65; Off. Econ. Opportunity head start res. grant, 66-68; summer Nat. Sci. Found. res. grant, 60. Consult, off. internal info, U.S. Air Force, 67- U.S.A, 44-45. Psychol. Asn. Social psychology; communication; person perception; computer methodology; nonverbal communication; role; credibility and trust worthiness. Publ: Word-of-mouth communication in Poland, 61, & Word-of-mouth communication in Yugoslavia, 61, Spec. Opers. Res. Off, American Univ; Hypocrisy as a way of life, Lehigh Univ, 63. Address: Communications Research Division, Boston University, 640 Commonwealth Ave, Boston, Mass. 02215.

GITTINGER, DR. J(AMES) P(RICE), b. Berkeley, Calif, Oct. 13, 28; m. 54. AGRICULTURAL ECONOMICS. B.S, California, 49; Rotary Found. fel, London, 50-51; M.S, Iowa State, 52, Ph.D, 55. Agr. economist, Int. Coop. Admin, Viet Nam, 55-59; plan orgn, Harvard Adv. Group, Tehran, Iran, 60-61; Assoc, Agr. Develop. Coun, 61-65; Nat. Planning Asn, 65-66; LECTR, ECON. DEVELOP. INST, 66- Econ. Asn; Agr. Econ. Asn; Soc. Int. Develop. Problems of rural development. Publ: Studies on land tenure in Viet Nam; Planning for agricultural development: the Iranian experience; Literature of agricultural planning. Address: Economic Development Institute, International Bank for Reconstruction and Development, 1818 H St. N.W, Washington, D.C. 20433.

GITTINGER, JOHN WILLIAM, b. Oklahoma City, Okla, Nov. 1, 17; m. 39; c. 2. PSYCHOLOGY. B.A, Oklahoma, 38, M.S, 39; N.Y. Univ, 40, 46-47. Dist. employ. supvr, Nat. Youth Admin, Okla, 39-40; dir. guid, high sch, Okla, 40-41; asst. prof. psychol. & asst. counsr. for men, Tulsa, 45-46; counsr, Vet. Admin, Okla, 46-47; dir. psychol. serv, Cent. State Hosp, Norman, 47-50; personnel consult, U.S. Govt, 50-54; res. assoc. psychol, med. col, Cornell, 55-56; field rep. admin. res, Human Ecol. Fund, New York, 56-58; DIR. & V.PRES, PSYCHOL. ASSESSMENT ASSOCS, INC, 58- Consult, Human Ecol. Fund, 58-65; spec. consult, U.S. Dept. Defense, 61- Med. Serv.C, 41-45, Lt. Comdr. AAAS; Psychol. Asn. Development of methods and techniques for personnel selection; descriptive system for the interpretation and prediction of behavior. Address: Psychological Assessment Associates, Inc, 4301 Connecticut Ave. N.W, Suite 408, Washington, D.C. 20008.

GITTLER, DEAN JOSEPH B(ERTRAM), b. New York, N.Y, Sept. 21, 12; m. 34; c. 1. SOCIOLOGY. B.S, Georgia, 34, A.M, 36; Rockefeller fel, 38-39; Ph.D, Chicago, 41. From instr. to assoc. prof. sociol, Georgia, 36-42; res. assoc, State Planning Bd, Va, 42-43; prof. sociol. & head dept, Drake, 43-45; prof, Iowa State Col, 45-54; prof. & chmn. dept. Rochester, 54-60; soc. sci, Queensborough Community Col, 60-63, dean faculty, 63-66, dir. col. discovery prog, 64-66; PROF. SOCIOL. & DEAN FERKAUF GRAD. SCH, YESHIVA, 66- Res. assoc, Chicago, 44; vis. prof, Yeshiva, 60-66. Consult, U.S. Dept. Army Air Force, 43. Mem. coun. fels, Upland Inst, Crozer Found, 65-; adv. bd, Rose F. Kennedy Center, 67- Fel. Sociol. Asn; Soc. Study Social Probs; Asn. Higher Ed; N.Y. Acad. Sci. Intergroup relations; sociological theory; community research. Publ: Social thought among the early Greeks, Univ. Georgia, 40; Social dynamics, McGraw, 52; Understanding minority groups, Wiley, 64. Address: Ferkauf Graduate School, Yeshiva University, 55 Fifth Ave, New York, N.Y. 10003.

GIUNTA, PROF. A(GATINO) JOHN, b. Messina, Italy, Sept. 6, 25; U.S. citizen; m. 60; c. 2. ECONOMICS. B.S, State Univ. N.Y, 52; M.A, Syracuse, 54, Ph.D.(econ), 56. Asst. prof. ECON, West. Md. Col, 56-60; assoc. prof, SCRANTON, 60-67, PROF, 67- Econ. Asn. Regional economic development. Publ: Managerial economics, Int. Textbook, 66; An introduction to business research, Univ. Scranton, 67. Address: Dept. of Economics, University of Scranton, Scranton, Pa. 18510.

GIVENS, DR. MEREDITH B(RUNER), b. Des Moines, Iowa, Jan. 11, 99; m. 29; c. 1. ECONOMICS. A.B, Drake, 20; Chicago, 20-21; fel, Wisconsin, 21-22, Ph.D.(econ), 29. Mem. res. staff, Nat. Bur. Econ. Res, 25-26, 28-30; spec. investr, bur. labor statist, U.S. Dept. Labor, 27-28; secy. indust. & trade, Soc. Sci. Res. Coun, 29-36; dir. res. & statist, div. employ, State Dept. Labor, N.Y, 36-59, exec. dir, State Inter-dept. Cmt. Low Incomes, 56-59; adv. human resources, Harvard Adv. Group, Planning Cmn, Govt. Pakistan, 59-61; mem. sr. staff, Inst. Pub. Admin, New York, 61; expert, Int. Labor Off, Pakistan, 62; dir. off. res. econ. & sci, bur. intel. & res, U.S. Dept. State, 63-66; chief manpower & human resources planning, tech. assistance div, U.S. Agency Int. Develop, 66-67; MANPOWER ADV, GOVT. GHANA, FORD FOUND, 68- Lectr, Wharton Sch, Pennsylvania, 30-32; N.Y. Sch. Soc. Work, Columbia, 46; prof, Univ. Philippines, 54-55. Vis. expert, U.S. Mil. Govt. Germany, 49; Smith-Mundt consult, Philippine Govt, 51-52, distinguished serv. citation; UN prin. statist. adv, Philippines, 54-55. Consult, Cmt. Econ. Security, D.C, 34; off. statist. standards, bur. budget, Exec. Off. President, 43-53, nat. security resources bd, 50-53; tech. adv. cmt. econ. statist, U.S. Bur. Census, 48-51, adv. panel labor force statist, intensive review cmt, 53; chmn. panel manpower, cmt. human resources, res. & develop. bd, U.S. Dept. Defense, 49-53; cmt. statist. prog, City of New York, 54-59. Mem, Cent. Statist. Bd, D.C, 33-36; exec. secy. adv. cmt. govt. statist. & info. serv, Soc. Sci. Res. Coun-Am. Statist. Asn, 33-36; mem. tech. bd. occup. res, U.S. Employ. Serv, 34-46, chmn. exec. cmt, 34-35; chmn. cmt. res. & statist, Interstate Conf. Employ. Security Agencies, 37-39. Fel. AAAS; fel. Statist. Asn.(v.pres, 41); Econ. Asn; Indust. Rels. Res. Asn; Regional Sci. Asn; Soc. Int. Develop; Philippine Statist. Asn; Pop. Asn. Am. Labor economics; manpower and social insurance; human resources and economic development; urbanism. Publ: A coordinated approach to low incomes and substandards levels of living; Some dynamics of human resources and manpower in relation to development planning; Human resources and national planning in Pakistan, In; Manpower development in the Middle East. Address: Milbrook Heights, 314 Hill Rd, State College, Pa. 16801.

GIVENS, DEAN PAUL R(ONALD), b. Wellsburg, W.Va, Nov. 16, 23; m. 45; c. 3. PSYCHOLOGY. B.A, George Peabody Col, 48, M.A, 49; Ph.D, Vanderbilt, 53. Instr. psychol, Lawrence Col, 49-51; counsr. Vanderbilt, 51-53; from assoc. prof. psychol. to prof. & chmn. dept, Birmingham-Southern Col, 53-60; assoc. prof, South Florida, 60-67; DEAN ARTS & SCI, ITHACA COL, 67- U.S.N, 43-46. Psychol. Asn. Psychotherapy; anxiety; perception. Publ: Co-auth, Human behavior, McGraw, 65; auth, Identifying and encouraging creative processes, J. Higher Ed; Vocational choices and their significance for the self structure, Jr. Col. J. Address: College of Arts & Sciences, Ithaca College, Ithaca, N.Y. 14850.

GLACKEN, DR. CLARENCE J(AMES), b. Sacramento, Calif, Mar. 30, 09; m. 42; c. 2. GEOGRAPHY. A.B, California, 30, M.A, 32; Ph.D.(geog), Hopkins, 51. Res. analyst, Vet. Admin, D.C, 46-49; field assoc. anthrop, Pac. Sci. Bd, Nat. Res. Coun, 51-52; instr. GEOG, CALIFORNIA, BERKELEY, 52-53, asst. prof, 53-58, assoc. prof, 58-64, PROF, 64- Fulbright res. scholar, Norway, 57-58; Guggenheim fel, 67. U.S.A, 41-46. Asn. Am. Geog; fel. Geog. Soc; Asn. Asian Studies. History of geographical thought; geography of the Far East; historical geography. Publ: The Great Loochoo, a study of Okinawan village life, 55 & Traces on the Rhodian shore, nature and culture in Western thought from ancient times to the end of the eighteenth century, 67, Univ. California; Changing ideas of the habitable world, In: Man's role in changing the face of the earth, 56, Univ. Chicago. Address: Dept. of Geography, University of California, 501 Earth Science Bldg, Berkeley, Calif. 94720.

GLAD, DR. BETTY, b. Salt Lake City, Utah, Sept. 27, 29. POLITICAL SCIENCE. B.S, Utah, 49; Ph.D.(int. rels), Chicago, 62. Instr. POLIT. SCI, Wilson Jr. Col, 57-58; Mt. Holyoke Col, 58-59; lectr, Brooklyn Col, 59-64; asst. prof, ILLINOIS, URBANA, 64-67, ASSOC. PROF, 67- Univ. Illinois rep, Midwest Seminar U.S. For. Policy, 67- Polit. Sci. Asn. The impact of modal psychological and ideological structures on foreign policy making and international relations; bargaining models as applied to diplomacy. Publ: Charles Evans Hughes and the illusions of innocence: a study in American diplomacy, Univ. Illinois, 66. Address: Dept. of Political Science, Lincoln Hall, University of Illinois, Urbana, Ill. 61801.

GLAD, PROF. DONALD D(AVISON), b. Salt Lake City, Utah, Apr. 23, 15; m. 52; c. 4. PSYCHOLOGY. B.A, Utah, 42, M.A, 43; Knight fel, Stanford, 43-45, Ph.D.(psychol), 46; Nat. Training Labs, 65. Lectr. psychol, Utah, 42-43; asst. neuropsychiat, Stanford, 44-45, asst. soc. psychol. & instr. psychol, 45, res. fel. alcoholism, 45-46; asst. prof, San Jose State Col, 46-48; asst. prof. psychol. & chief psychologist, sch. med, Colorado, 48-53, dir. & admin. officer accident res, 53-57; assoc. prof. psychol, Denver, 57-59; dir. psychol, Greater Kansas City Ment. Health Found, 59-67; PROF. PSYCHOL, LA. STATE, 67- Clin. prof, med. sch, Kansas, 61-63. Consult, San Jose Ment. Hyg. Clin, Calif, 47-48; Fitzsimmons Army Hosp, Colo, 49-52; Colo. State Hosp, 50-58; Surg. Gen. Off, 52-53; stress & fatigue lab, Wright Patterson Air Force Base, Ohio, 55-58; Air Force Off. Sci. Res, 57-58; neurophysiol. res. lab, Duke, 58-60; Walter Reed Army Inst. Res, 57; psychother. res. conf, Univ. Kansas, 57; Osawatomie State Hosp, 60. Dir, Midwest. Lab. for Exec. Develop, 65-67. Dipl. Am. Bd. Exam. Prfnl. Psychol. AAAS; fel. Psychol. Asn; Orthopsychiat. Asn. Creative thinking; alcoholism; projective test theory; psychotherapy and group processes; organizational change; management development. Publ: Interpersonality synopsis; Operational values in psychotherapy; Emotional projection test. Address: Dept. of Psychology, Louisiana State University, Baton Rouge, La. 70803.

GLAD, PROF. VIRGINIA B(ROWN), b. Stafford, Ohio, Aug. 13, 13; m. 52; c. 3. PSYCHOLOGY. B.S, Cent. Mich. Col, 39; fel, Chicago, 41-42, Ph.D. (psychol), 49. Asst. psychol, L.L. Thurstone Psychomet. Lab, Chicago, 42-45, instr, univ, 45-48; instr, exten. center, Colorado, 49-50; asst. prof, Denver, 50-51; res. psychologist, human resources res. center, U.S. Air Force, Colo, 51-53, supvry. res. psychologist, maintenance lab, Air Force Personnel & Training Res. Cetner, 53-58; clin. psychol. trainee, Vet. Admin. Hosp, Denver, Colo, 58-59; clin. & res. psychologist, Greater Kansas City Ment. Health Found, Mo, 59-61, chief psychologist, adult outpatient serv, psychiat. receiving center, 61-67; PROF. PSYCHOL, LA. STATE, 67- Assoc. prof, sch. med, Missouri, Kansas City, 64-67. Cert. in clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 65. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc; Group Psychother. Asn. Quantitative research methods; personality theory and assessment; individual and group psychotherapy. Publ: Co-auth, Interpersonality synopsis, Libra, 63; co-auth, Reliability and intercorrelational criteria for item selection, Symp. Air Force Human Eng, Personnel & Training Res; contrib, Operational values in psychotherapy. Address: 2304 Fairway Dr, Baton Rouge, La. 70809.

GLADDEN, PROF. JAMES W(ALTER), b. Dunbar, Pa, Nov. 3, 12; m. 35; c. 2. SOCIOLOGY. A.B, Waynesburg Col, 33; S.T.B, Westminster Theol. Sch, 36; M.Ed, Pittsburgh, 43, Ph.D, 46. Clergyman, Methodist Church, 36-46; head dept. SOCIOL, Mt. Union Col, 46-49; PROF, KENTUCKY, 49- Pres, Blue Ridge Assembly, YMCA, 61-62. Sociol. Asn. Family life in Kentucky; family life education; sociology of religion; marriage patterns of traditional American culture with emphasis on East South Central Census Division. Address: Dept. of Sociology, University of Kentucky, Lexington, Ky. 40502.

GLADE, PROF. FREDERIC H, JR, b. Brooklyn, N.Y, Dec. 24, 16; m. 41; c. 2. ECONOMICS. B.S, N.Y. Univ, 39, M.B.A, 43, Ph.D.(econ), 52. Instr. mkt, N.Y. Univ, 41-53, asst. prof, 53-55, assoc. prof, 55-65, dir. advisement, 54-65, counsr, eve. student orgns, sch. commerce, 48-58; PROF. MKT, AMERICAN UNIV, 65-, ASST. DEAN ADMIN, SCH. BUS. ADMIN, 67-, dir. mkt. prog, 65-67. Found. Econ. Ed. fel, 54. Consult, Nat. Inst. Govt. Purchasing, 65; Agency Int. Develop, 66. U.S.A.A.F, 43-46. Econ. Asn; Mkt. Asn. Marketing; advertising; selling. Publ: Co-auth, History of the F.W. Dodge Corporation; Examination of the economic and social functions of the advertising agency; advertising agency mortality, Advert. Agency. Address: American University School of Business Administration, Washington, D.C. 20016.

GLADE, PROF. WILLIAM PATTON, JR, b. Wichita Falls, Tex, July 29, 29; m. 54; c. 4. ECONOMICS, INTERNATIONAL BUSINESS. B.B.A, Texas, 50, M.A, 51, Ph.D.(econ), 55. From instr. to asst. prof. econ, Maryland, 57-60; from asst. prof. to PROF. BUS. & ECON, WISCONSIN, 60- Ford Found. Faculty fel. econ, 58-59. Consult. economist ed. & world affairs, 65-68. Contrib. ed, Handbook Latin Am. Studies, 66- Econ. Asn; Latin Am. Studies Asn; Asn. Evolutionary Econ. Latin American economic development, especially such institutional aspects as entrepreneurial formation, government-business relations and labor movements. Publ: Las empresas gubernamentales descentralizadas, Prob. Agr. & Indust. Mexico, 59; co-auth, The political economy of Mexico, Univ. Wisconsin, 63; auth, The Latin American economies, Van Nostrand, 68. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

GLADFELTER, DR. JOHN HENRY, b. Tomahawk, Wis, Oct. 17, 26; m. 46. PSYCHOLOGY. B.S, Houston, 51, M.A, 53, Ph.D, 57. Instr. PSYCHOL, SOUTHWEST. MED. SCH, TEXAS, 57-60, asst. prof, 60-67, CLIN. ASSOC. PROF, 67- Clin. assoc. prof, sch. nursing, Texas Woman's Univ, 67-; consult, Dallas Police Acad, 66-; state hosp, Wichita Falls, Tex, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 66. Psychol. Asn; Group Psychother. Asn. Psychotherapy; group processes; video tape in behavior research. Publ: Study of pica and food preferences, Tex. Reports on Biol. & Med; Effects of post-hypnotically induced emotional states, J. Gen. Psychol. Address: 918 Knott Place, Dallas, Tex. 75208.

GLADIS, DR. MICHAEL, b. Lost Creek, Pa, Nov. 7, 20; m. 57; c. 1. PSYCHOLOGY. B.S, Rutgers, 51; M.S, Pittsburgh, 53, Ph.D, 56. Counseling psychologist, Vet. Admin, 57-59, chief voc. counseling sect, 59-66; ASSOC. PROF. PSYCHOL. & ED, PITTSBURGH, 66-, lectr, 56-66, asst. prof, Johnstown Col, 58-59. U.S.C.G, 42-45. AAAS; Psychol. Asn. Learning of meaningful related discourse; vocational counseling and guidance; associative processes of schizophrenics; age changes in human learning. Publ: Age differences in transfer and retroaction, J. Exp. Psychol; Grade differences in transfer, J. Ed. Psychol; Job incentive preferences of the emotionally disturbed, J. Counseling Psychol. Address: Dept. of Psychology, University of Pittsburgh School of Liberal Arts, Pittsburgh, Pa. 15213.

GLADSTEIN, PROF. GERALD ALLEN, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

GLADSTONE, PROF. ARTHUR (ISAIAH), b. New York, N.Y, Jan. 1, 25. PSYCHOLOGY. B.S, Queens Col.(N.Y), 45; M.S, Yale, 47, Ph.D.(psychol), 49. Res. asst, attitude change res. proj, Yale, 49-52; asst. prof. psychol, Swarthmore Col, 52-57; res. psychologist, Chestnut Lodge Res. Inst, 57-63; assoc. prof. PSYCHOL, grad. faculty, New Sch. Soc. Res, 63-65; PROF, SASKATCHEWAN, REGINA, 66- Psychol. Asn. Psychological aspects of international relations; group processes; experiential teaching; Gestalt therapy. Publ: Relationship orientation and the processes leading toward war, Background, 62; co-auth, Schizophrenia and the need-fear dilemma, Int. Univs, 68; auth, The conception of the enemy, J. Conflict Resolution, 59. Address: Dept. of Psychology, Regina Campus of the University of Saskatchewan, Regina, Sask, Can.

GLADSTONE, PROF. ROY, b. Chicago, Ill, Feb. 5, 15; m. 42; c. 2. PSYCHOLOGY. B.S, Illinois, 42, M.S, 47, Ph.D.(ed. psychol), 49. Asst. prof. ed. psychol, OKLA. STATE, 49-54, assoc. prof, 54-62, acting head dept. psychol, 55-56, PROF. PSYCHOL, 62- U.S.A, 42-46, Capt. Psychol. Asn. Cognitive variables controlling behavior; hostility. Publ: A set of principles of teaching, Oklahoma State Univ, 67; Dogmatism and the gulf hypothesis, J. Soc. Psychol, 64; The significance of the extinction situation, J. Psychol, 66. Address: Dept. of Psychology, Oklahoma State University, Stillwater, Okla. 74074.

GLADWIN, DR. THOMAS, b. New York, N.Y, Dec. 13, 16; m. 39; c. 4. ANTHROPOLOGY. A.B, Harvard, 39; Ph.D.(anthrop), Yale, 52. Liaison engr, Lockheed Aircraft Corp, 41-45; internal affairs & econ. officer, civil admin. unit, U.S. Dept. Navy, Truk, 48-51; intel. analyst, Cent. Intel. Agency, 52-53; res. scientist, psychol. warfare div, HumRRO, 53-55; asst. dir. res, Nat. Asn. Retarded Children, 55-56; soc. sci. consult, Nat. Inst. Ment. Health, 56-67; CONSULT. PSYCHOL. ANTHROP, 67- AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop; N.Y. Acad. Sci. Micronesian and psychological anthropology; cultural factors in mental health; applied anthropology; social and economic development. Publ: Co-auth, Truk, man in paradise; Mental subnormality; auth, Poverty U.S.A, 67. Address: 10913 Mariner Dr, Oxon Hill, Md. 20022.

GLAESER, PROF. MARTIN G(USTAVE), Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

GLAHE, DR. FRED RUFUS, b. Chicago, Ill, June 30, 34; m. 61. ECONOMICS. B.S, Purdue, 57, M.S, 62, Ph.D.(econ), 64. Engr, Allison Div, Gen. Motors Corp, 57-58, opers. analyst, 58-61; res. asst, Purdue, 61-62, instr, 62-64; sr. economist, Battelle Mem. Inst, 64-65; ASST. PROF. ECON, COLORADO, 65- Lectr, Ohio State, 64-65. Ord.C, U.S.A, 58, Capt. Econ. Asn; Economet. Soc. Econometrics; international trade and finance; economic theory. Publ: Professional and nonprofessional speculation, profitability and stability, South. Econ. J, 7/66; Empirical study of the foreign-exchange market: test of a theory, Princeton, 5/67. Address: Dept. of Economics, University of Colorado, Boulder, Colo. 80302.

GLANTZ, DR. OSCAR, b. Philadelphia, Pa, Mar. 1, 23; m. 46. SOCIOLOGY. M.A, Pennsylvania, 49, Ph.D.(sociol), 55. Instr. sociol, Pennsylvania, 50-55; asst. prof. soc. sci, Mich. State, 55-61; ASSOC. PROF. SOCIOL, BROOKLYN COL, 61-, DEP. CHMN. DEPT, 64- Res. grants, Mich. State, 58-60. Consult, Am. Red Cross, summer, 59. U.S.A.F, 43-46, Res, 46-49. Sociol. Asn; Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Political sociology; social change, especially a general theory of imperfect adjustment. Publ: Unitary political behavior and differential political motivation, 12/57 & The Negro voter in northern industrial cities, 12/60, West. Polit. Quart; Class consciousness and political solidarity, Am. Sociol. Rev, 8/58. Address: Dept. of Sociology, Brooklyn College, Bedford Ave. & Ave. H, Brooklyn, N.Y. 11210.

GLANVILLE, PROF. A(LBERT) DOUGLAS, b. Auburn, N.Y, Jan. 5, 06; m. 38; c. 2. PSYCHOLOGY. A.B, Cornell, 27, scholar, 28-30, Ph.D.(psychol), 32; scholar, Illinois, 27-28, M.A, 28. Asst. psychol, Cornell, 30-32, Merriam res. fel, 32-33; sr. res. fel, Training Sch. Vineland, N.J, 33-36; psychologist, State Hosp. & Ment. Hyg. Clin, Del, 36-37; instr. PSYCHOL, MAINE, 37-41, asst. prof, 41-45, assoc. prof, 45-48, PROF, 48-, head dept, 47-63. Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. Psychol. Asn. Motor functions; psychometric tests; attitude measurement; personality evaluation; kinesthesis. Publ: Visual perception; Encephalography; Personality variables. Address: Dept. of Psychology, University of Maine, Orono, Maine 04473.

GLANZ, DR. EDWARD COLEMAN, b. Georgetown, S.C, Dec. 22, 24; m. 44; c. 2. GUIDANCE, PSYCHOLOGY. A.B, Bates Col, 48; M.A, Columbia, 49, Ed.D, 50. Personnel consult, David Clark Co, 48; dir, Lamport House, City Col. New York, 49-50; voc. counsr, Voc. Counseling Serv, 52-53; dir. student personnel, Quinnipiac Col, 50-53; assoc. prof. guid, Boston, 53-56, prof. & chmn. dept, col. basic studies, 56-63; PROVOST, SOUTHAMPTON COL, LONG ISLAND, 63- Consult, Job Corps Prog. U.S.A.A.F, 43-45. Psychol. Asn; Personnel & Guid. Asn; N.Y. Acad. Sci. Student personnel administration; counseling psychology. Publ: Introduction to personal adjustment; Groups in guidance; Foundations and principles of guidance, Allyn & Bacon, 64. Address: 178 Meeting House Lane, Southampton, N.Y. 11968.

GLANZER, PROF. MURRAY, b. New York, N.Y, Nov. 18, 22; m. 53; c. 3. PSYCHOLOGY. B.A, City Col. New York, 43; M.A, Michigan, 48, Ph.D.(psychol), 52. Instr. psychol, Brooklyn Col, 49-53; fel, Chicago, 53-54; from assoc. proj. dir. to prog. dir, Am. Inst. Res, 54-58; res. assoc. PSYCHOL, sch. med, Maryland & Walter Reed Army Inst. Res, 58-63; PROF, N.Y. UNIV, 63- Lectr, Pittsburgh, 55-58. U.S.A, 43-46. AAAS; Psychol. Asn; Psychomet. Soc; Ling. Soc; Psychonomic Soc. Publ: Co-auth, Re-examination of the serial position effect, J. Exp. Psychol; Accuracy of perceptual recall: an analysis of organization, 63 & Two storage mechanisms in free recall, 66, J. Verbal Learning & Verbal Behavior. Address: Dept. of Psychology, New York University, New York, N.Y. 10003.

GLASENER, PROF. F. RUSSELL, b. Reinbeck, Iowa, Jan. 17, 91; m. 13; c. 3. ECONOMICS. B.A, Iowa State Teachers Col, 11; M.A, Iowa, 32, Ph.D.(econ), 34. Acting head dept. ECON, Drake, 34-35; prof, ILLINOIS STATE, 35-60, EMER. PROF, 59- Dir. savings & loan, Bd. County Supvr. Econ. Asn. Principles; money and banking; finance. Publ: Who are on relief; Why a liberal democratic state? Address: 110 E. Sycamore, Normal, Ill. 61761.

GLASER, PROF. DANIEL, b. New York, N.Y, Dec. 23, 18; m. 46; c. 2. SOCIOLOGY. Ph.D, Chicago, 54. Prison inspector, U.S. Mil. Govt, Germany, 46-49; asst, Chicago, 50; sociologist & actuary, State Penitentiary, Ill, 50-54; asst. prof. sociol. & anthrop, Illinois, Urbana, 54-57, assoc. prof, 57-62, prof, 62-68, dir. res. effectiveness of fed. correctional syst, 60-68; head dept. sociol, 64-68; ASSOC. CMNR. RES, N.Y. NARCOTIC ADDICTION CONTROL CMN, 68-; DISTINGUISHED PROF. SOCIOL, RUTGERS, 68- Consult, President's Cmn. Law Enforcement & Admin. Justice, 66; consult, N.Y. State Narcotic Addiction Control Cmn, 67. U.S.A, 42-46. Sociol. Asn. Asn. Criminol.(v.pres, 67-). Criminology; social psychology; race relations. Publ: The effectiveness of a prison and parole system, Bobbs, 64; co-auth, The narcotics offender, 66 & The alcoholic offender, U.S. Dept. Health, Ed. & Welfare, 66. Address: New York State Narcotic Addiction Control Commission, 1855 Broadway, New York, N.Y. 10023.

GLASER, DR. EDWARD M(AYNARD), b. New York, N.Y, Apr. 8, 11; m. 43. PSYCHOLOGY. Ph.D, Columbia, 40. Psychologist, U.S. Pub. Health Serv, 40-42; consult. psychologist, Rohrer, Hibler & Replogle, 46-52; MANAGING ASSOC, EDWARD GLASER & ASSOCS, 52-; PRES, HUMAN INTERACTION RES. INST, 61- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 42-46, Lt. Comdr. Fel. AAAS; fel. Psychol. Asn. Human resources development; effective task performance by individuals and organizations; behavioral science research; research utilization; productive and creative thinking; identification of talent. Publ: Experiment in the development of critical thinking; Utilization of applicable research and demonstration results; co-auth, Watson-Glaser critical thinking appraisal. Address: 10889 Wilshire Blvd, Los Angeles, Calif. 90024.

GLASER, ELMER E(LIOT), b. New York, N.Y, May 28, 20; m. 47; c. 1. ECONOMICS. B.S, City Col. New York, 41. Economist & bus. analyst, War Prod. Bd, 41-46; prog. analyst, UNRRA, 46; Off. Housing Expediter, 46-47; asst. to dir. econ. reconstruct. dept, Am. Joint Distribution Cmt, Paris, 47-50; ECONOMIST, Off. Defense Mobilization, 50-53; AGENCY INT. DEVELOP, 53- Econ. Asn. Address: 4714 Brandywine St. N.W, Washington, D.C. 20016.

GLASER, EZRA, b. Brooklyn, N.Y, Sept. 12, 13; m. 37; c. 2. STATISTICS. B.S, N.Y. Univ, 34; A.M, Columbia, 37. Mem. staff res. & planning, Nat. Recovery Admin, 35-36; pop. study, Nat. Res. Cmt, 36; statistician, Nat. Resources Planning Bd, 37-42; U.S. Dept. Navy, 42; War Manpower Cmn, 42-44; off. statist. standards, U.S. Bur. Budget, D.C, 45-56; Nat. Analysts, Inc, 57-60; Nat. Bur. Standards, 60-61; asst. cmnr. res, U.S. Patent Off, 61-65; opers. res. analyst, Nat. Bur. Standards, 65-66; SPEC. ASST. TO DIR. SCI. COMMUN, NAT. INSTS. HEALTH, 66- Prof. lectr. appl. sci, grad. sch. eng, George Washington, 62-66. U.S.A.A.F, 44-45. Fel. AAAS (v.pres. elect, statist. sect, 68); fel, Statist. Asn; Asn. Comput. Mach; Inst. Mgt. Sci; Economet Soc; N.Y. Acad. Sci; Soc. Pub. Admin. Statistical organization of the federal government; models of business operations; design of computer applications. Publ: Assets and income of nonfinancial and financial corporate units; Information technology—relationship to management decision models, Proc. Conf. Purdue, 65; co-auth, The design of a federal statistical data center, Am. Statistician, 67. Address: 2839 W. George Mason Rd, Falls Church, Va. 22042.

GLASER, DR. KURT, Pediat, see 11th ed, Phys. & Biol. Vols.

GLASER, PROF. KURT, b. Ann Arbor, Mich, Aug. 19, 14; m. 50; c. 2. POLITICAL SCIENCE. A.B, Harvard, 35, A.M, 38, Ph.D.(econ, polit. sci), 41. Procedure consult, Fed. Security Agency, Soc. Security Bd, 41-44; chief, methods sect, personnel div, 44-46; orgn. analyst, civil admin. div, Off. Mil. Govt, Germany, 46-49; polit. affairs officer, U.S. High Cmnr, U.S. Dept. State, 49-50; writer & lectr, Munich, 50-52; res. proj. leader, Govt. Affairs Inst, D.C, 53-54; orgn. analyst, Record Eng, Inc, 54-55; asst. prof. European prog. & lectr. govt. & polit, Maryland, 56-59; assoc. prof. GOVT, SOUTHERN ILLINOIS, 59-65, PROF, 65- Fulbright lectr, Kiel, 66-67. Polit. Sci. Asn. Comparative government; public administration; problems of liberation of captive nations. Publ: World War II and the war guilt question, Marienburg-Verlag Würzburg, 65; Comparative federal constitutions; Administrative technology. Address: Government Faculty, Southern Illinois University, Edwardsville, Ill. 62025.

GLASER, DR. NATHAN M(ORY), b. Buffalo, N.Y, May 30, 14; m. 45; c. 1. PSYCHOLOGY. B.S, Michigan, 36, M.A, 38, Ph.D.(psychol), 42. Instr. psychol, Buffalo, 42-43; from chief psychologist to DIR, JEWISH VOC. SERV, 47- Consult. psychologist, Jewish Soc. Serv, N.Y, 42-43. U.S.A.A.F, 42-45. AAAS; Psychol. Asn. Clinical psychology; psychotherapy of children and adolescents; rehabilitation counseling; diagnostic testing. Address: 1353 E. 55th Place, Chicago, Ill. 60637.

GLASER, PROF. ROBERT, b. Providence, R.I, Jan. 18, 21; m. 45; c. 2. EXPERIMENTAL PSYCHOLOGY. B.S, City Col. New York, 42; M.A, Indiana, 47, fel, 48-49, Ph.D.(psychol), 49. Asst. prof. psychol, Kentucky, 49-51; res. asst. prof. ed, Illinois, 51-52; lectr. PSYCHOL, PITTSBURGH, 52-56, assoc. prof, 56-60, PROF, 60-, PROF. ED, 64-, DIR. LEARNING RES. & DEVELOP. CENTER, 65-, dir. res, 64-65. Fulbright award, 50; prog. dir, Am. Insts. Res, 52-56, res. adv, 64-67. Mem. ed. subpanel, President's Sci. Adv. Cmt, 62-64; proj. adv. cmt, Inst. Ed. Develop, 66-; adv. bd, HumRRO, 67-; standing cmt. res, Ed. Testing Serv, 67- U.S.A.A.F, 43-46. AAAS; Psychol. Asn; Psychomet. Soc; Ed. Res. Asn.(v.pres, 66-68). Measurement theory; training research; programmed learning; educational technology; individualized instruction; computer-assisted instruction. Publ: Ed, Training research and education; co-ed, Teaching machines and programmed learning I: a source book, 60 & ed, teaching machines and programmed learning II: data and directions, 65, Nat. Ed. Asn. Address: Learning Research & Development Center, University of Pittsburgh, Pittsburgh, Pa. 15213.

GLASER, DR. WILLIAM A(RNOLD), b. New York, N.Y, Dec. 4, 25; m. 58; c. 3. SOCIOLOGY, POLITICAL SCIENCE. B.A, N.Y. Univ, 48; M.A, Harvard, 49, fel, 50-51, Ph.D.(polit. sci), 52. Instr. soc. sci, Mich. State, 52-55, asst. prof, 55-56; res. asst, BUR. APPL. SOC. RES, COLUMBIA, 56-58, SR. RES. ASSOC, 58-Soc. Sci. Res. Coun. fel, 56-57; Russell Sage Found. resident, 59-60. Exec. dir, Coun. Soc. Sci. Data Arch, 65-68. U.S.A, 44-46. Sociol. Asn; Polit. Sci. Asn; Int. Polit. Sci. Asn. Political science; sociology of professions; comparative social systems; voting behavior and public opinion. Publ: Pretrial discovery and the adversary system, Russell Sage, 68; Social systems and medical organization; The compensation of physicians, 69. Address: Bureau of Applied Social Research, Columbia University, 605 W. 115th St, New York, N.Y. 10025.

GLASNER, DR. SAMUEL, Psychol, see 10th ed, Soc. & Behav. Vols.

GLASS, DR. ALBERT A(LLEN), b. Toronto, Ont, Apr. 18, 24; nat; m. 47; c. 2. ENGINEERING PSYCHOLOGY. B.A, Brooklyn Col, 49; M.A, N.Y. Univ, 50; Ph.D.(appl. psychol), Columbia, 67. Asst. chief psychol. res, U.S. Army Signal Sch, Ft. Monmouth, N.J, 52-59; chief human factors unit, res. center, Picatinny Arsenal, Dover, 59-60; sr. human factors engr, Am. Mach. & Foundry Co, Conn, 60-63; SUPV. PSYCHOLOGIST, REENTRY SYSTS. DEPT, GEN. ELEC. CO, PHILA, 63- Instr, Drexel Inst, 63-66, adj. prof, 67- U.S.A, 43-46. Psychol. Asn; Human Factors Soc. Application of human factors engineering to design and development of weapon systems; space vehicle programs and bioastronautics. Publ: Man-machine considerations in satellite and planetary operations, Mil. Engr, 1-2/63; Considerations in

a manned escape system from a damaged spacecraft, Human Factors Soc, 9/67. Address: 2 Langdon Lane, Narberth, Pa. 19072.

GLASS, DR. DAVID C(ARTER), b. New York, N.Y, Sept. 17, 30; m. 60. SOCIAL PSYCHOLOGY. A.B, N.Y. Univ, 52, M.A, 54, U.S. Pub. Health Serv. fel, 58-59, Ph.D, 59; Virginia, 54-55. Res. assoc, Russell Sage Found, 56-59, assoc. soc. psychologist, 60-61; res. fel. soc. psychol, res. center human rels, grad. dept. psychol, N.Y. Univ, 59-60, assoc. res. scientist & instr. psychol, univ, 61-62; asst. prof, Ohio State, 62-63; assoc. soc. psychologist, RUSSELL SAGE FOUND, 63-65, SOC. PSYCHOLOGIST, 65- Assoc. prof, Columbia, 65-66, adj. assoc. prof, 67-68; vis. assoc. prof, Rockefeller Univ, 66-68; prof, N.Y. Univ, 68- Res. consult, Child Study Asn. Am, 57-58. AAAS; Psychol. Asn; Sociol. Asn. Personality and social behavior; physiological correlates of social behavior; cognition. Publ: Changes in liking as a means of reducing cognitive discrepancies between self esteem and aggression, J. Personality, 64; Theories of consistency and the study of personality, In: Personality theory and research, Rand McNally, 67; Achievement motivation, dissonance and defensiveness, J. Personality, 68. Address: Rockefeller University, York Ave. & 66th St, New York, N.Y. 10021.

GLASS, DR. EDWARD J, b. Niagra Falls, N.Y, Oct. 31, 18; m. 45; c. 2. SOCIAL & COUNSELING PSYCHOLOGY. A.B, Stanford, 46, M.A, 52, Ph.D. (sociol), 63. Teaching asst. sociol, Stanford, 50-52; instr. soc. psychol, Col. Holy Cross, 57-60; lectr. anthrop, Menlo Jr. Col, 63; STAFF PSYCHOLOGIST, PALO ALTO VET. ADMIN. HOSP, 64- Lectr, Col. Notre Dame (Calif), 63-64. U.S.M.C, 42-44. Sociol. Asn; Psychol. Asn. Rehabilitation of the physically handicapped and mentally ill; cultural anthropology. Address: 216 Concord Dr, Menlo Park, Calif. 94025.

GLASS, DR. GENE V, b. Lincoln, Nebr, June 19, 40; m. 59; c. 1. PSYCHOLOGY, EDUCATION. Nebraska, 62; Nat. Defense Ed. Act fels, Wisconsin, 63 & 65, M.S, 63, Ph.D.(ed. psychol), 65. Asst. prof. ed. psychol, Illinois, 65-67; CO-DIR. LAB. ED. RES, COLORADO, 67- Chmn. res. training cmt, Am. Ed. Res. Asn, 67-68. Psychol. Asn; Psychomet. Soc; Ed. Res. Asn. Factor analysis; design of experiments in psychology, sociology and education; statistical analysis. Publ: Statistical methods in education and social sciences, Prentice-Hall, (in press); Alpha factor analysis of infallible variables, Psychometrika, 12/66. Address: Laboratory of Educational Research, University of Colorado, Boulder, Colo. 80302.

GLASSBURNER, PROF. BRUCE, b. U.S, Dec. 4, 20; m. 42; c. 4. ECONOMICS. B.S. & M.S, Iowa State Col, 42; Ph.D.(econ), California, 53. Economist, Fed. Reserve Bank of San Francisco, 53-55; asst. prof. ECON, CALIFORNIA, DAVIS, 55-59, assoc. prof, 59-66, PROF, 66-, CHMN. DEPT, 56-, chmn. field staff, Univ. California & Univ. Indonesia Econ. Proj, 58-60. Consult. & expert witness, Fed. Reserve Syst, 56-57; sr. adv, Stanford Univ. Pakistan Proj, Pakistan Inst. Develop. Econ, 65-66; summer consult, U.S. Agency Int. Develop, Wash, 66, Djakarta, 67. U.S.A, 43-46, Capt. Am. Econ. Asn; Indonesian Econ. Asn. Pricing of foreign exchange in Pakistan and Indonesia; history of economic thought; theory of economic development; Southeast Asian economies. Publ: Alfred Marshall on economic history and historical development, Quart. J. Econ, 11/55; Economic policy-making in Indonesia 1950-57; Econ. Develop. & Cultural Change, 1/61; co-auth, A critical evaluation of Pakistan's third five-year plan, J. Develop. Studies, 6/66. Address: Dept. of Economics, University of California, Davis, Calif. 95616.

GLASSCOCK, PROF. J. NOEL, b. Bowling Green, Ky, May 23, 09; m. 47; c. 2. GEOGRAPHY. B.S, Western Kentucky, 33; M.A, Kentucky, 43; George Peabody Col, 44-45. Teacher, pub. schs, Ky, 29-34, prin, 34-36, supt, Ga, 36-38, asst. prin. & subj. supvr, Ky, 39-41, prin, 41-43; asst, George Peabody Col, 44-45; PROF. GEOG, FLORENCE STATE COL, 45- Address: Box 764, College Station, Florence, Ala. 35630.

GLASSE, DR. ROBERT M, b. New York, N.Y, Apr. 3, 29; m. 66. SOCIAL & CULTURAL ANTHROPOLOGY. Fel. & B.S, City Col. New York, 51; Strong fel, Sydney, 59-61; fel, Adelaide, 61-62; Ph.D.(anthrop. & sociol), Australian Nat. Univ, 62. Lectr. anthrop, Sydney, 58-59; vis. specialist, Territory New Guinea, 62-63; res. anthropologist, Pakistan-SEATO Cholera Res. Lab, 63-65; asst. prof. ANTHROP, QUEENS COL. N.Y, 65-66, ASSOC. PROF, 67- U.S.A, 51-53. Fel. Anthrop. Asn. Ethnography of Melanesia and East Pakistan; kinship and marriage; symbolism and religion. Publ: The cognatic descent system of the Huli, L'Homme, (in press); The Huli of the southern highlands, In: Gods, ghosts and men in Melanesia, Oxford Univ, 65; Cannibalism in the kuru region of New Guinea, Trans. N.Y. Acad. Sci, 4/67. Address: Dept. of Anthropology, Queens College, Flushing, N.Y. 11367.

GLASSER, PROF. GERALD J, b. Westfield, N.J, Sept. 25, 31; m. 55; c. 3. STATISTICS. B.S, N.Y. Univ, 53, M.B.A, 54, Ph.D, 57. From instr. to PROF. BUS. STATIST, N.Y. UNIV, 54- Consult, Nat. Assoc. Broadcasters, N.Y. Stock Exchange & N.Y. State Bd. of Equalization. Statist. Asn; Opers. Res. Soc; Inst. Math. Statist; Inst. Mgt. Sci. Publ: Co-auth, Statistics for business decisions, Irwin, 59. Address: 159 Landsdowne Ave, Westfield, N.J. 07090.

GLASSER, PROF. ISRAEL, b. New York, N.Y, Aug. 5, 20; m. 45; c. 2. POLITICAL SCIENCE, ECONOMICS. B.A, Brooklyn Col, 43; M.P.A, N.Y. Univ, 46, Ph.D, 57. Economist, Off. Price Admin, 46; Int. Statist. Bur, Inc, 47-48; from instr. to assoc. prof. polit. sci. & econ, NEW YORK COMMUNITY COL, 48-66, PROF. SOC. SCI, 67-, asst. head dept. soc. sci, 51-62, head liberal arts div, 62-66; dean faculty, Kingsborough Community Col, 66-67. Lectr, City Col. New York, 46-51. U.S.A, 44-46. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. Political parties; public administration; junior colleges. Publ: Renegotiation of war contracts; Careers for youth in retailing; Analysis of differential voting participation in the 1953 Democratic mayoralty primary elections. Address: 2022 E. 18th St, Brooklyn, N.Y. 11229.

GLASSMAN, DR. SIDNEY M, b. Kansas City, Mo, Aug. 25, 32; m. 58; c. 1. CLINICAL PSYCHOLOGY. B.A, Univ. Kansas City, 53, M.A, 54; Ph.D.(psychol), Purdue, 59. Trainee clin. psychol, Vet. Admin, 56-59, clin. psychologist, 59-62; asst. chief psychol. serv, FT. LOGAN MENT. HEALTH CENTER, 62-66, CHIEF OF PSYCHOL, 66- U.S.A, 54-56. Psychol. Asn. Psychotherapeutic processes; psychological evaluation of brain damage; mental health program development; human relations training; community psychology. Address: 6958 S. Madison Way, Littleton, Colo. 80120.

GLASSNER, DR. MARTIN I(RA), b. Plainfield, N.J, July 7, 32; m. 55; c. 3. GEOGRAPHY, POLITICAL SCIENCE. B.A, Syracuse, 53; Wisconsin, 53-55; M.A, Calif. State Col. Fullerton, 64; Univ. of the Americas, 65; Ph.D.(int. rels), Claremont Grad. Sch. & Grad. Center, 68. For. serv. officer, For. Serv. of U.S, D.C, Jamaica & Chile, 58-63; ASST. PROF. geog, Calif. State Polytech. Col, 66-67; polit. sci, Puget Sound, 67-68; GEOG, SOUTH. CONN. STATE COL, 68- U.S.A, 55-56. Asn. Am. Geog; Am. Geog. Soc; Polit. Sci. Asn; Soc. Int. Law. Political geography; economic and political problems of developing areas, especially land-locked states and Latin America. Publ: Co-auth, The Mandans, N.Dak. Quart, 58 & 59. Address: Dept. of Geography, Southern Connecticut State College, New Haven, Conn. 06515.

GLATZER, DR. HENRIETTE T, b. U.S, Nov. 1, 06; m. 34; c. 2. PSYCHOLOGY. B.A, N.Y. Univ, 28; M.A, Columbia, 38; Ph.D, New Sch. Soc. Res, 54. Sr. supvr. psychologist, Guid. Center New Rochelle, 42-57, head group psychother. dept, 52-57; dir. group psychother. & chief psychologist, New Hope Guid. Center, Adelphi Col, 57-59; LECTR. PSYCHOANAL. PSYCHOTHER, POSTGRAD. CENTER PSYCHOTHER, 56-; FACULTY SUPVR, 59-; ASST. CLIN. PROF. PSYCHIAT, ALBERT EINSTEIN COL. MED, 67- Psychotherapist, Brooklyn Juvenile Guid. Center, 37-47. Consult, Assoc. Therapists, Inc, 65-; Sount View-Throgs Neck Community Ment. Health Center, 67- Mem. prof. adv. bd, Guid. Center New Rochelle, 57-; Coun. Psychoanal. Psychother. Psychol. Asn; fel. Orthopsychiat. Asn; fel. Group Psychother. Asn. Publ: Notes on the pre-oedipal phantasy, Am. J. Orthopsychiat; Analysis of masochism in group psychotherapy, Int. J. Group Psychother; Handling transference resistance in group psychotherapy, Psychoanal. Rev. Address: 25 E. 83rd St, New York, N.Y. 10028.

GLAZE, PROF. BERT THEODORE, b. Akron, Ohio, Aug. 1, 22; m. 48; c. 2. ECONOMICS. B.A, Akron, 51; M.A, Ohio State, 53, Ph.D, 62. Asst. ECON, Ohio State, 51-56, instr, 56-58; asst. prof. & chmn. dept, Otterbein Col, 58-63; assoc. prof, San Jose State Col, 63-66; PROF, MARIETTA COL, 66- U.S.N, 42-46. Econ. Asn. Business cycles, economic stabilization and housing; effects structural changes in the economy brought about by recent growth of urban home ownership. Publ: Co-auth, Housing market analysis and the growth of nonfarm home ownership, Ohio State Univ, 63; auth, Relationship of market value and rent, Appraisal J, 10/66. Address: Dept. of Economics, Marietta College, Marietta, Ohio 45750.

GLAZE, PROF. JOHN ARTHUR, Psychol, see 10th ed, Soc. & Behav. Vols.

GLAZER, PROF. NATHAN, b. New York, N.Y, Feb. 25, 23; div; c. 3. SOCIOLOGY. B.S.S, City Col. New York, 44; A.M, Pennsylvania, 44; Ph.D. (sociol), Columbia, 62. Ed, Commentary Mag, 45-53; Doubleday Anchor Books, 54-55; Ford Found. grant, 55-57; lectr. sociol, California, Berkeley, 57-58; Smith Col, 59-60; urban sociologist, Housing & Home Finance Agency, 62-63; PROF. SOCIOL, CALIFORNIA, BERKELEY, 63- Guggenheim Found. fel, 54-55; Walgreen lectr, Chicago, 55; res. grant, 55-56; lectr, Bennington Col, 58-59; N.Y. Post Found. & joint center urban studies, Harvard-Mass. Inst. Tech. res. grant, 60-61; Ford Found. study & travel fel, Japan, 61-62. Sociol. Asn. Race relations in the United States; problems of large cities. Publ: American Judaism, Univ. Chicago, 57; Social basis of American communism, Harcourt, 61; co-auth, Beyond the melting pot, MIT Press, 63. Address: Dept. of Sociology, 750 Barrows Hall, University of California, Berkeley, Calif. 94720.

GLAZER, DR. STANFORD H(OWARD), b. Dighton, Mich, June 1, 18; m. 42; c. 1. COUNSELING PSYCHOLOGY. A.B, Wayne, 40, M.Ed, 42, D.Ed, 54. Counsr, WAYNE STATE, 46-58, DIR. ED. COUNSELING CENTER, 58- Consult. psychologist, 66- U.S.A.A.F, 42-45. Psychol. Asn; Personnel & Guid. Asn. Counseling techniques; test and measurement; counseling of aged. Publ: Educational attainment and interest patterns & Counselee attitude toward counseling, Nat. Voc. Guid. Quart; Michigan council of personnel and guidance organizations, J. Col. Student Personnel. Address: 10794 Kingston, Huntington Woods, Mich. 48070.

GLEASON, PROF. ALAN H(AROLD), b. Riverside, Calif, Feb. 4, 17; m. 50; c. 3. ECONOMICS. A.B, Princeton, 39; M.A, Rochester, 41; Ph.D.(econ), Mass. Inst. Tech, 50. Instr. ECON, Rochester, 46-49, asst. prof, 49-56; assoc. prof, INT. CHRISTIAN UNIV, TOKYO, 56-61, PROF, 61-, CHMN. SOC. SCI. DIV, 63- U.S.A, 43-46, Sgt. Econ. Asn; Indust. Rels. Res. Asn; Asn. Asian Studies. Economic growth; international level of living comparisons; militarism and Japanese economic development. Publ: Foster and Catchings: a reappraisal, J. Polit. Econ; Postwar housing in Japan and the U.S, In: Studies on economic life in Japan, Univ. Michigan, 64; Economic growth and consumption, In: The state and economic enterprise in Japan, Princeton Univ, 65. Address: Dept. of Economics, International Christian University, Mitaka, Tokyo, Japan.

GLEASON, DR. GERALD THOMAS, b. Iron Mountain, Mich, June 7, 27; m. 49; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Milwaukee State Teachers Col, 49; M.S, Wisconsin State Col, Milwaukee, 52; Ph.D.(ed. psychol, child develop), Wisconsin, Madison, 56. Teacher, pub. schs, Wis, 49-52; prof. ed. psychol, WISCONSIN, MILWAUKEE, 56-68, chmn. dept. elem. ed, 60-62, dir. programed learning center, 61-65, chmn. dept. ed. psychol, 65-66, DIR. RES. SCH. ED, 66- Exec. secy, Lakeshore Curriculum Study Coun, Wis, 58-62. Mem. bd. control, Coop. Ed. Res. Lab, Inc, 66- U.S.A, 52-54. Psychol. Asn. Educational research; programed learning and teaching machines; computer-assisted instruction. Publ: Ed. & co-auth, The theory and nature of independent learning, Int. Textbook, 67; auth, The relationship between variability in physical growth and academic achievement among third and fifth children, J. Ed. Psychol, 3/58; When media serve people-programed instruction, Ed. Leadership, 3/66. Address: University of Wisconsin School of Education, 3203 N. Downer Ave, Milwaukee, Wis. 53201.

GLEASON, PROF. JOSEPHINE M(IXER), Psychol, see 10th ed, Soc. & Behav. Vols.

GLEASON, DR. WALTER JAMES, b. Chicago, Ill, Mar. 29, 23; m. 49; c. 3. CLINICAL PSYCHOLOGY. B.S, Roosevelt, 49; M.A, Northwestern, 51, Ph.D, 53. EXEC. DIR, WALWORTH COUNTY COUNSELING CENTER, 65- Consult, Community Ment. Health Orgn. U.S.A, 42-46, 51-59, Capt. Rehabilitation psychology; military clinical psychology; public mental health; child psychology; group psychotherapy with children. Publ: Psychiatric reprofiling in basic training centers; Predicting army leadership ability by modified leaderless group discussion; Psychological characteristics of the audiologically inconsistent patient. Address: Walworth County Counseling Center, Box 290, Elkhorn, Wis. 53121.

GLEITMAN, PROF. HENRY, Psychol, see 11th ed, Phys. & Biol. Vols.

GLEN, DR. ROBERT S, b. Brit. Embassy, Tokyo, Japan, Nov. 21, 20; U.S. citizen; m. 56; c. 3. PSYCHIATRY. B.S, Stanford, 50, M.D, 54. Staff psychiatrist, Lafayette Clin, Detroit, Mich, 57-58; asst. prof. PSYCHIAT, Florida, 58-62; ASSOC. PROF, SOUTHWEST. MED. SCH, TEXAS, 62- Adj. prof. law, Southern Methodist, 64-65; adj. prof, Brite Divinity Sch, Texas Christian. Consult, Terrell State Hosp. Res. Training, 62-65; psychiat. consult, Peace Corps, Colombia 4 Proj, 62-65; consult, Vet. Admin. Hosp, 63-65; Lackland Air Force Base Dept. Psychiat, 64-65. Mem, Gov. Ment. Health Planning Cmt, 64-65. Royal Artillery, 41-47, Capt. Am. Med. Asn; Psychiat. Asn. Alcohol; application of communication theory to psychiatry. Address: Dept. of Psychiatry, Southwestern Medical School, University of Texas, Dallas, Tex. 75235.

GLENDINNING, PROF. ROB(ER)T M(ORTON), b. Butte, Mont, Apr. 14, 05; m. 29; c. 1. GEOGRAPHY. A.B, Michigan, 27, M.A, 30, Ph.D.(geog), 33. Asst. chief, State of Mich. Surv, Isle Royale, 30; assoc. geogr, Tenn. Valley Authority, 34-36; from asst. prof. to PROF. GEOG, CALIFORNIA, LOS ANGELES, 36-, chmn. dept, 49-53. Consult, U.S. & local govt, 40-, cmt. geog, Off. Naval Res, 50-53; Fulbright Award Cmt, 54. AAAS; Asn. Am. Geog; Am. Geog. Soc; Geophys. Union; Arctic Inst. N.Am; Int. Geophys. Union. Geography of the arid southwest United States; land utilization and planning; regional geography. Publ: Your country and the world; Eurasia; co-auth, Introduction to geography. Address: Dept. of Geography, University of California, Los Angeles, Calif. 90024.

GLENN, CHARLES W(ILLIAM), b. Holton, Kans, Oct. 15, 23; m. 50; c. 2. AGRICULTURAL ECONOMICS. B.S, Kansas State, 50, M.S, 51. Asst. econ, Kansas State, 49-50, instr. agr. econ, 50-51; anal. statistician, crop reporting serv, U.S. Dept. Agr, 51-55, agr. economist, mkt. res. div, 55-58; sr. agr. economist, Midwest Res. Inst, 58-60, head agr. econ. sect, 60-62; SR. ECONOMIST, BUTLER MFG. CO, 62- U.S. Merchant Marine, 44-46. Study of general market conditions and industry activity; analysis of trends in construction and building material markets; interpretation of market conditions as they affect company operations; preparation of both short and long range plans, Address: Butler Manufacturing Co, Research & Planning Dept, 7400 E. 13th St, Kansas City, Mo. 64126.

GLENN, DR. NORVAL D(WIGHT), b. Roswell, N.Mex, Aug. 13, 33. SOCIOLOGY. B.A, New Mexico State, 54; M.A, Tex. Tech. Col, 57; fel, Texas, 58-59, Ph.D.(sociol), 62. Instr. SOCIOL, Miami (Ohio), 60-61; Illinois, 61-63, asst. prof, 63-64; TEXAS, 64-65, ASSOC. PROF, 65- Summer faculty fel, Illinois, 62; res. grants, Univ. Illinois Res. Bd, 62-63, Hogg Found. Ment. Health, 63-67 & Univ. Texas Res. Inst, 64-67. U.S.A, 54-56, 1st Lt. Fel. Sociol. Asn; Soc. Study Social Probs. Social stratification; racial and ethnic minorities; urban sociology; sociology of religion and of aging. Publ: Co-auth, Transformation of the Negro American, Harper, 65; auth, White gains from Negro subordination, Soc. Probs, 66; co-auth, Religious preference and worldly success, Am. Sociol. Rev, 67. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

GLENN, DR. WILLIAM A(LEXANDER), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GLENN, DR. WILLIAM D(ARBY), b. York, S.C, Mar. 9, 00; m. 23; c. 1. PSYCHOLOGY. B.A, North Carolina, 21, fels, 21-22, 24-27, A.M, 22, Ph.D.(psychol), 31. Asst, State Bd. Charities & Pub. Welfare, N.C, 22-24; instr. psychol, Wash. Sq. Col, N.Y. Univ, 27-34, asst. prof, 34-42, assoc. prof. & dir. psychol. serv. center, 45-52, reading inst, 50; prof. & head dept, Tampa, 52-62; RETIRED. Dipl, Am. Bd. Exam. Prfnl. Psychol. Distinguished Serv. Medal, Chinese Nat. Govt. U.S.A, 17-19; U.S.N.R, 42-45, Lt. Comdr. Fel. Psychol. Asn. Individual differences; counseling. Publ: Social and sociometric study; College personnel services. Address: 4812 Flamingo Rd, Tampa, Fla. 33611.

GLENNON, ANTHONY J(OHN), C.F.C, b. New York, N.Y, Sept. 15, 18. ECONOMICS. B.A, Fordham, 40, M.A, 49, Ph.D, 59. Instr. ECON, IONA COL, 46-50, asst. prof. & acting head dept, 50-51, asst. prof, 51-58, asst. prof, 58-59, ASSOC. PROF, 59-, head dept, 58-67. Econ. Asn. National income and price analysis; history of economic doctrines and systems. Address: Dept. of Economics, Iona College, New Rochelle, N.Y. 10801.

GLENNON, JAMES R(OBERT), b. Minneapolis, Minn, May 19, 22; m. 45; c. 5. INDUSTRIAL PSYCHOLOGY & RELATIONS. B.B.A, Minnesota, 48, M.A, 57. Statistician, State of Minn, 49-51; mkt. analyst, Standard Oil Co, 51-52, supvr. training, 52-54, employee rels, 54-59, MGR. EMPLOYEE RELS, 59-61, AM. OIL CO, 61- U.S.N.R, 42-45. Psychol. Asn. Employee attitudes, selection and placement; psychological correlates of employee, supervisory and managerial productivity and efficiency; motivation; organizational manpower planning. Publ: Co-auth, The use of psychological tests, Howard Allen, 6/64; a catalog of life history items, Richardson Found, 2/66; auth, Personal history correlates of physical scientists' career aspirations, J. Appl. Psychol. Address: 158 Chestnut, Park Forest, Ill. 60466.

GLESER, DR. GOLDINE, Psychol, see 11th ed, Phys. & Biol. Vols.

GLESER, DR. LEON JAY, Math. Statist, see 11th ed. Phys. & Biol. Vols. & Suppl. II.

GLICK, PROF. CLARENCE E(LMER), b. Ind, Feb. 28, 06; m. 35; c. 2. SOCIOLOGY. A.B, DePauw, 27; M.A, Chicago, 28, Henderson fel, 32-33, Ph.D. (sociol), 38. Asst. res. sociologist, Inst. Juvenile Res, Ill, 28-29; res. assoc. sociol, Hawaii, 29-32, asst. prof, 35-37; Cincinnati, 33-34; adj. prof, Texas, 34-35; instr, Chicago, 37-38; asst. prof, Brown, 38-42; sr. info. res. analyst & head domestic info. sect, res. div, Off. War Info, D.C, 42-44; soc. sci. analyst, res. br, info. & ed. div, U.S. War Dept, 44-45; prof. sociol. & head res. unit, U.S. Army Univ.(France), 45-46; prof. sociol. & head dept. sociol. & anthrop, Tulane, 46-49; PROF. SOCIOL, HAWAII, 49-, chmn. dept, 58-61. Ford Found. res. fel. race rels, South. Rhodesia, 54-55; vis. Fulbright lectr, Annamalai Univ. & Madras Sch. Soc. Work, India, 55-56, Univ. Mysore, 61-62, Fulbright travel grant, Malaysia, 68-69. Mem. steering cmt, Conf. Race Rels. in World Perspective, 54. Sociol. Asn.(asst. ed, Am. Sociol. Rev, 49-52); Soc. Study Social Probs; fel. African Studies Asn; Asn. Asian Studies; Int. Asn. Tamil Res. Changing patterns of race relations viewed in world perspective; race and personality; collective behavior; social movements; political sociology; social change in underdeveloped countries; minority groups in Southeast Asia; overseas Indians. Publ: The Chinese migrant in Hawaii, No. 754, Univ. Microfilms, 38; Changing roles of white foreigners in newly independent countries of Asia and Africa, Kautilya: a Rev. of Int. Affairs, India, 62; Leaders of Indian origin in Kuala Lumpar, Int. Asn. Tamil Res, Univ. Malaya, 68. Address: Dept. of Sociology, University of Hawaii, 2550 Campus Rd, Honolulu, Hawaii 96822.

GLICK, DR. EDWARD B(ERNARD), b. Brooklyn, N.Y, Feb. 12, 29; m. 50; c. 2. POLITICAL SCIENCE. B.A, Brooklyn Col, 50; M.A, Florida, 52, fel, 52-55, Ph.D.(polit. sci), 55. Instr. polit. sci, Florida, 55-56; dir, cmn. int. affairs, Am. Jewish Cong, 56-59; human factors scientist, Syst. Develop. Corp, 59-64; sr. polit. scientist, off. nat. security studies, systs. div, Bendix Corp, 64-65; assoc. prof. POLIT. SCI, TEMPLE, 65-68, PROF, 68- Lectr, City Col. New York, 57-58; Hunter Col, 62; assoc. prof. lectr, George Washington, 64-65; summer Nat. Defense Ed. Act lectr, American Univ, 67. Consult, Off. Naval Res, 65-67; off. nat. security studies, Bendix Corp, 65- Stackpole award, 67. Am. Polit. Sci. Asn; Int. Studies Asn; Latin Am. Studies Asn; Int. Polit. Sci. Asn. National defense policy; Latin America; international relations; United States foreign policy. Publ: Latin America and the Palestine problem, Herzl, 58; Straddling the Isthmus of Tehuantepec, Univ. Florida, 59; Peaceful conflict: the non-military use of the military, Stackpole, 67. Address: 302 Fox Lane, Broomall, Pa. 19008.

GLICK, DR. HENRY ROBERT, b. Hanover, Pa, Oct. 22, 42; m. 63. POLITICAL SCIENCE. B.A, Pittsburgh, 63; fel, Tulane, 63-65, M.A, 65, Ph.D. (judicial polit), 67. ASST. PROF. POLIT. SCI, TEMPLE, 67- Polit. Sci. Asn. American judicial politics; public opinion, political parties and voting behavior. Publ: The Chinese community in Sabah and the 1963 election, Asian Surv, 3/65; Political recruitment in Sarawak: a case study of leadership in a new state, J. Polit. 2/66; co-auth, The impact of universal suffrage: a comparison of popular and property voting, Am. Polit. Sci. Rev, 12/67. Address: Dept. of Political Science, Temple University, Philadelphia, Pa. 19122.

GLICK, DR. IRA O(SCAR), b. Chicago, Ill, Aug. 6, 27; m. 52; c. 2. SOCIOLOGY. B.A, Roosevelt Col, 49; M.A, Chicago, 51, Ph.D, 57. Asst, cmt. human develop, Chicago, 53, researcher, indust. rels. center, 54; proj. mgr, Soc. Res, Inc, 54-61, assoc. dir, 61-63, exec. dir, 63-65; PRES, IRA O. GLICK & ASSOCS, INC, 65- U.S.N, 45-46. Sociol. Asn. Publ: Co-auth, Living with television, Aldine, 62. Address: 425 Dewey, Evanston, Ill. 60202.

GLICK, DR. JOSEPH ARTHUR, b. Bronx, N.Y, Nov. 27, 35; m. 60; c. 1. PSYCHOLOGY. B.A, Brandeis, 56; M.A, Clark, 59, U.S. Pub. Health Serv. fel, 59-63, Ph.D.(psychol), 64. Asst. prof. CHILD PSYCHOL, Yale, 64-68; ASSOC. PROF, MINNESOTA, MINNEAPOLIS, 68- Res. grants, U.S. Pub. Health Serv, 65-66, Nat. Inst. Child Health & Human Develop, 66-69. Consult, Ed. Serv. Inc, 65-66; Nat. Sci. Found. grants, 66-68. Psychol. Asn. Cognition; perception; development. Publ: Co-auth, Some relations between autokinetic motion and space localization, Acta Psychol, 65; auth, An experimental analysis of subject-object relationships in perception, In: Essays in honor of Heinz Werner, Clark Univ, 66 & Some problems in the evaluation of pre-school intervention programs, In: Early education: reports of research in progress, Aldine, 67. Address: Institute of Child Development, University of Minnesota, Minneapolis, Minn. 55455.

GLICK, DR. LEONARD B(ARRY), b. Baltimore, Md, Dec. 31, 29; m. 59; c. 2. CULTURAL ANTHROPOLOGY. B.S, Maryland, 51, M.D, 53; Ph.D.(anthrop), Pennsylvania, 63. Nat. Inst. Ment. Health res. fel. & grant, 60-62; lectr. ANTHROP, Bryn Mawr Col, 63-64; ASST. PROF, WISCONSIN, 65- Rockefeller Found. res. grant, 66-; summer instr, Pennsylvania, 63. Med.C, U.S.A.F, 55-57, Capt. Fel. Anthrop. Asn; Ethnol. Soc. Social anthropology; ethnographic method and theory; religion, medical systems; culture and behavior; Pacific, West Indies. Publ: Medicine as an ethnographic category: the Gimi of the New Guinea Highlands, Ethnol, 67; Native medicine; sorcery & witchcraft; divination, Encyclop. of Papua & New Guinea. Address: Dept. of Anthropology, University of Wisconsin, Madison, Wis. 53706.

GLICK, DR. OREN, b. Minot, N.Dak, Oct. 19, 33; m. 59; c. 2. SOCIAL PSYCHOLOGY. B.A, Bethel Col.(Kans), 58; M.A, Kansas, 62, Ph.D.(social psychol), 63. Dir. res. soc. psychol, Greater Kansas City Ment. Health Found, 63-65; res. assoc. & dir. res, INST. COMMUNITY STUDIES, 65-67, DIR. DEVELOP. RES. IN ED, 67- Consult, comp. studies ment. hosp. orgn, Univ. Oregon, 63-64; psychiat. receiving center, Greater Kansas City Ment. Health Found, 65-66; dept. neurol, Kansas City Gen. Hosp, 65-66. Field reader, bur. res, U.S. Off. Ed, 65- Psychol. Asn; Ed. Res. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues. Student peer group conditions and processes in the achievement of educational objectives; interpersonal attraction and acquaintance processes; interpersonal influence processes; social perception; normative regulation of behavior. Publ: Educational process in the classroom: some problems in conceptualization and basic assumption, Sch. Rev, (in press). Address: Institute for Community Studies, 2300 Holmes, Kansas City, Mo. 64108.

GLICK, DR. PAUL C(HARLES), b. Hartsville, Ind, Sept. 22, 10; m. 38; c. 2. DEMOGRAPHY. A.B, DePauw, 33; A.M, Wisconsin, 35, Ph.D.(sociol), 38. Instr. sociol, DePauw, 37-38; Whitman Col, 38-39; statistician family characteristics, U.S. BUR. CENSUS, 39-49, chief soc. statist, 49-62, ASST. CHIEF POP. DIV, 62- Mem. standing cmt, Pub. Health Conf. Records & Statist, Nat. Center Health Statistics, D.C, 64-68. Statistician, info. & ed. div, U.S.A, 44-45. Sociol. Asn; Pop. Asn.(v.pres, 60-61, pres, 66-67); Sociol. Res. Asn; Int. Union Sci. Study Pop. Family formation and composition; marriage and divorce; educational attainment. Publ: Co-auth, Marriage and divorce: a social and economic study, Harvard, 69 & Prospective changes in marriage and the family, J. Marriage & Family, 5/67; auth, Permanence of marriage, Pop. Index, 10/67. Address: U.S. Bureau of the Census, Washington, D.C. 20233.

GLICKMAN, DR. ALBERT S, b. Brooklyn, N.Y, Feb. 7, 23; m. 45; c. 4. INDUSTRIAL PSYCHOLOGY. B.A, Ohio State, 43, scholar, 46-47, M.A, 47, Ph.D.(psychol), 52. Voc. counsr, occup. opportunities serv, Ohio State, 46-47; asst. prof. psychol, Ga. Inst. Tech, 47-52; proj. dir, Am. Insts. Res, 52-55; dir. psychol. res. dept, personnel res. activity, U.S. Dept. Navy, 55-62; chief personnel res. staff, U.S. Dept. Agr, 62-67; DIR. INST. RES. ORGN. BEHAV, AM. INSTS. RES, WASH, D.C, 67- U.S.N.R, 43-46, Lt.(jg). AAAS; Psychol. Asn; Soc. Psychol. Study Social Issues. Organizational behavior; management; human resources; social action research. Publ: Co-auth, An exploratory study on top management development and succession, Cmt. Econ. Develop, 67, Curriculum assessment with critical incidents, J. Appl. Psychol. & Managerial training: reinforcement through evaluation, Pub. Personnel Rev, 65. Address: 12712 Saddlebrook Dr, Silver Spring, Md. 20906.

GLICKMAN, DAVID L(LOYD), b. New York, N.Y, Apr. 4, 14; m. 38; c. 2. ECONOMICS, POLITICAL SCIENCE. A.B, Brooklyn Col, 37; M.S.S, New Sch. Soc. Res, 40. Consult, U.S. Bur. Budget, 42; acting chief, Australia & N.Z. Sect, Brit. Empire Div, Bd. Econ. Warfare, 42-43; guest lectr, American Univ, 43; asst. to econ. adv, bur. supplies, For. Econ. Admin. & Off. Int. Trade, U.S. Dept. Commerce, 43-46; consult. int. probs, Nat. Planning Asn, 46-47; economist, Food & Agr. Orgn, UN, 47; TRADE ECONOMIST & ECONOMIST, PORT OF N.Y. AUTHORITY, 47- Lectr, American Univ, 47; City Col, New York, 49-63; Col. of Ins, 63-66; Rutgers, 66- Consult, Coun. Democracy, 41. Econ. Asn; Polit. Sci. Asn; Statist. Asn; Transportation Res. Forum (v.pres, 66-67, pres, 67-68); Regional Sci. Asn; Soc. Planning Off. International economics and geography; regional economics; comprehensive planning. Publ: Co-auth, Metropolitan transportation-1980, Port of N.Y. Authority, 63; auth, Big Four in Germany; British imperial preference system, Quart. J. Econ. Address: Economist Planning & Development Dept, Port of New York Authority, 111 Eighth Ave, New York, N.Y. 10011.

GLICKMAN, PROF. HARVEY, b. Brooklyn, N.Y, June 16, 30; m. 56; c. 2. POLITICAL SCIENCE. A.B, Princeton, 52; Goodwin scholar, Fels fel. & Sheldon traveling fel, Harvard, 53-58, M.A, 55, Austin fel, 56-57, Ph.D. (polit. sci), 58. Instr. polit, Princeton, 58-60; asst. prof. POLIT. SCI, HAVERFORD COL, 60-65, ASSOC. PROF, 65-, CHMN. DEPT, 66-, DIR. AFRICAN STUDIES, 66- Danforth res. fel, 61; Ford Found. area studies fel, Africa, 62-63; Fulbright vis. lectr. African studies, Israel, 67-68. Consult, soc. sci. dept, Rand Corp, 62-; U.S. Dept. State, 64- Med.C, U.S.A.R, 57- Polit. Sci. Asn.(secy, 67-68); African Studies Asn; Brit. Studies Asn; Royal African Soc. Influence of party ideology on policy-making; political adaptation and transformation in Africa. Publ: Co-auth, Problem of internal security in Great Britain; auth, Toryness of English conservatism, J. Brit. Studies; One-party system in Tanzania, Annals Am. Acad, 3/65. Address: Dept. of Political Science, Haverford College, Haverford, Pa. 19041.

GLICKSTEIN, DR. ARTHUR FOSTER, b. Brooklyn, N.Y, Nov. 18, 27; m. 53; c. 3. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 48; M.A, Kentucky, 51, Ph.D, 59. Trainee psychol, Vet. Admin. Hosp, Lexington, Ky, 51-52; instr. psychol, Kansas State, 56; psychologist, Norwich State Hosp, Conn, 56-61; clin. psychologist, NEWINGTON HOSP. CRIPPLED CHILDREN, 61-63, DIR. DEPT. PSYCHOL, 63- Consult, Norwich Pub. Schs, 57-58; Waterford Country Sch, Quaker Hill, 59-; private practice, 59-; Hartford Regional Center for Ment. Retarded, 66- Med. Serv.C, 52-56, 1st Lt. Psychol. Asn. Personality correlates of ethnocentrism; perceptual changes in schizophrenic patients as the result of electroshock therapy. Address: 70 Dover Rd, Newington, Conn. 06111.

GLIDEWELL, DR. JOHN C(ALVIN), b. Okolona, Miss, Nov. 5, 19; m. 41; c. 2. PSYCHOLOGY. M.A, Chicago, 49, Ph.D.(soc. psychol), 53. Proj. dir, human dynamics labs, Chicago, 48-49; dir. psychol, pub. schs, Miss, 49-51; res. assoc, sch. med, Washington (St. Louis), 54-58, res. instr, 58-64, res. asst. prof, 64-67, res. assoc, grad. sch. nursing, 57-60, lectr, 57-65, assoc. prof. soc. psychol, univ, 58-65, dir. training prog, soc. sci. inst, 58-67, assoc. prof. ed. & psychol, Univ, 65-67, PROF. ED. PSYCHOL, CHICAGO, 67- Dir. res. & develop, St. Louis County Health Dept, 55-67. Consult. soc. psychologist, West. Elec. Co, 60-65; Nat. Inst. Ment. Health, 60-; consult. mgt. training, Gen. Motors Co, 64- U.S.A.A.F, 42-46, proj. dir, Human Resources Inst, 51-53, Maj. Fel. Psychol. Asn; fel. Sociol. Asn; fel. Pub. Health Asn; Ed. Res. Asn; Soc. Psychol. Study Social Issues. Epidemiology mental health; small groups; social psychology of the school. Publ: Parental attitudes and child behavior, C.C. Thomas, 61; co-auth, Nurses, patients and social systems, Univ. Missouri, 68; auth, Social organization and socialization in the elementary classroom, Soc. Sci. Res. Coun, 65. Address: Dept. of Education, University of Chicago, 5835 S. Kimbark Ave, Chicago, Ill. 60637.

GLINER, DR. CYNTHIA RAE, b. Los Angeles, Calif, Aug. 19, 41; m. 64; c. 1. CHILD PSYCHOLOGY. B.A, California, Berkeley, 63; M.A, Minnesota, 65, Ph.D.(child psychol), 66. Instr. CHILD PSYCHOL, gen. exten, MINNESOTA, fall 66 & 67, RES. ASSOC, INST. CHILD DEVELOP, 66-, INSTR, 67- Soc. Res. Child Develop. Learning; perceptual development. Publ: Tactual discrimination thresholds for shape and texture in young children, J. Exp. Child Psychol, 67. Address: Institute of Child Development, University of Minnesota, Minneapolis, Minn. 55455.

GLIXMAN, DR. ALFRED F, b. Brooklyn, N.Y, Jan. 26, 21; m. 43; c. 3. PSYCHOLOGY. Ph.D.(psychol), California, 47. Asst. prof. psychol, Mississippi, 47-49; Kansas, 49-50; chief psychologist, Vineland Training Sch, 50-52; psychologist, State Childrens Colony, Ariz, 52-54; assoc. prof. psychol, Oklahoma, 54-59, prof, 59-66; SR. RES. PSYCHOLOGIST, MENNINGER FOUND, 66- AAAS; Psychol. Asn; Soc. Psychol. Study Social Issues. Theory of personality and of interpersonal relationships; methodology in psychology; family structure and child personality. Publ: Recall of completed and incompleted activities under varying degrees of stress, J. Exp. Psychol, 49; Categorizing as a function of meaning domain, J. Personality & Soc. Psychol, 65; co-auth, Samoan interpersonal values, J. Soc. Psychol, 67. Address: Menninger Foundation, Box 829, Topeka, Kans. 66601.

GLOBETTI, DR. GERALD, b. Birmingham, Ala, Feb. 22, 34; m. 66; c. 1. SOCIOLOGY. B.A, La. Col, 59; Nat. Defense Ed. Act fel, Miss. State, 59-62, M.A, 61, Ph.D.(sociol), 63; cert, Georgia, 63. Asst. sociologist, MISS. STATE, 62-63, asst. prof. SOCIOL, 63-66, ASSOC. PROF, 66- Nat. Inst. Ment. Health alcohol ed. res. grant, 66-70; Mem, N.Am. Asn. Alcoholism Progs, 67- Asn. Adv. Study Alcohol & Narcotics. Sociology of drinking behavior among adolescents and adults; attitudes toward alcohol and alcoholism education; factors which retard or facilitate alcohol education on the local level. Publ: Co-auth, Social adjustment of high school students and the use of beverage alcohol, Sociol. & Soc. Res, 1/67; auth, Factors associated with a favorable attitude toward alcohol education in two Mississippi communities, J. Alcohol Ed, spring 67, Comparative study of white and teenage drinking in two Mississippi communities, Phylon, summer 67. Address: Dept. of Sociology & Anthropology, Drawer C, Mississippi State University, State College, Miss. 39762.

GLOCK, PROF. CHARLES Y(OUNG), b. New York, N.Y, Oct. 17, 19; m. 50; c. 2. SOCIOLOGY. B.S, N.Y. Univ, 40; M.B.A, Boston, 41; Rockefeller fel, Columbia, 41-42, Ph.D.(sociol), 52. From lectr. to prof. sociol, Columbia, 46-58, dir. bur. appl. soc. res, 51-58; PROF. SOCIOL, CALIFORNIA, BERKELEY, 58- & CHMN. DEPT, 67-, dir. surv. res. center, 58-67. Fel, Center Adv. Study Behav. Sci, 57-58. Assoc. ed, Rev. Relig. Res, 66-; mem. bd. dirs, Pac. Lutheran Theol. Sem, 64- & Grad. Theol. Union, 65- U.S.A.A.F, 42-45, Capt. Soc. Sci. Study Relig.(v.pres, 66-68, pres, 68-69); Sociol. Asn; Asn. Pub. Opinion Res.(pres, 62-63). Religion; methodology; opinion research. Publ: Co-auth, Christian beliefs and anti-Semitism, Harper, 66 & To comfort and to challenge, Univ. California, 67; ed, Survey research in the social sciences, Russell Sage, 67. Address: Dept. of Sociology, University of California, Berkeley, Calif. 94720.

GLOCK, PROF. MARVIN D(AVID), b. Nov. 19, 12; m. 41; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Nebraska, 34; M.S, Illinois, 38; Ph.D.(ed psychol), Iowa, 46. Asst. prof. ed, Mich. State, 47-49; PROF. ED. PSYCHOL. & DIR. TESTING SERV. BUR, CORNELL, 49- Fulbright scholar, 62-63. U.S.N.R, 42-46. Psychol. Asn; Ed. Res. Asn. Psychology of learning; measurement. Publ: Improvement of college reading; co-auth, Evaluating pupil growth. Address: 217 Stone Hall, Cornell University, Ithaca, N.Y. 14850.

GLOS, PROF. R(AYMOND) E(UGENE), b. Wayne, Ill, Feb. 5, 03; m. 27; c. 2. FINANCE, ACCOUNTING. B.S, Illinois, 25, M.S, 26; Ph.D.(finance), Ohio State, 39. Asst. prof. bus, MIAMI (OHIO), 27-29, assoc. prof, 29-37, PROF. acct, 37-47, BUS, 47-, CHMN. DEPT, 63-, asst. dean sch. bus. admin, 31-37, acting dean, 37-39, dean, 39-63. Am. Acct. Asn.(v.pres, 47). Publ: Co-auth, Introduction to business, sixth ed, South-Western Pub, 67. Address: 211-1 Laws Hall, Miami University, Oxford, Ohio 45056.

GLOSSER, DR. HARRY JOSEPH, b. Pottsville, Pa, May 19, 12; m. 44; c. 1. PSYCHOLOGY. B.S, Kutztown State Col, 40; M.Ed, Pa. State, 46; Ed.D. (psychol), Temple, 56. Teacher, pub. schs, Pa, 37-46; instr. psychol. & ed. & dir. guid. clin, Altoona Undergrad. Center, Pa. State, 46-47; instr. psychol. & sociol. & psychol. counsr, RIDER COL, 47-49, assoc. prof. psychol. & head dept, 49-56, PROF. PSYCHOL. & DIR. COUNSELING CENTER, 56- Private practice, 51-; lectr, eve. sch, Trenton Jr. Col, 58-59; Trenton State Col, 65-67. Psychol. Asn; Soc. Clin. Hypnosis. Psychotherapy and counseling; hypnotherapy; mental hygiene and personal adjustment; objective tests and measurements; vocational counseling; educational guidance; personality development. Publ: Instructor's manual of test items in general psychology; Psychiatric versus psychological opinion regarding personality disturbances, Am. Psychologist; co-auth, Nature of mental illness: diversity of psychiatric opinion, Education. Address: 456 Hamilton Blvd, Morrisville, Pa. 19067.

GLOSTER, PROF. JESSE E(DWARD), Econ, see 10th ed, Soc. & Behav. Vols.

GLOVER, CHARLES A(RTHUR), b. Laclede, Mo, Nov. 7, 90; m. 31; c. 2. ECONOMICS, STATISTICS. B.S, California, 21; M.B.A, Harvard, 23, Sheldon traveling fel, 23-24. Instr. student reports, grad. sch. bus. admin, Harvard, 24-26; asst. prof. statist. & acct, Lehigh, 26-27; mgt, econ. & acct, Brown, 28-29; supv. statistician, Am. Tel. & Tel. Col, 29-55; lectr. statist, finance & econ, Rutgers, 45-49, 56-61; RETIRED. Lectr, grad. sch. bus, Columbia, 30; res. dir, Travel Res. Asn. & ed, Travel Res. Rev, 58-61. Econ. Asn; Statist. Asn; Finance Asn; fel. Royal Econ. Soc. Pension plans; financial administration of business; corporate financial policy. Publ: Co-auth, Suggestions on report writing; Transportation and power, In: The Economy of New Jersey, 58 & The challenge of the new highway program, In: The highway and the landscape, 59, Rutgers. Address: 515 Upper Mountain Ave, Upper Montclair, N.J. 07043.

GLOVER, EARL ROBERT, Agr. Mkt. & Ed, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GLOVER, PROF. JOHN DESMOND, b. Brisbane, Australia, Feb. 12, 15; U.S. citizen. BUSINESS ADMINISTRATION, ECONOMICS. Ph.B, Brown, 36; M.B.A, Harvard, 39, A.M, 42, Ph.D, 47. Instr. & tutor. econ, HARVARD, 39-42, instr. BUS. ADMIN, 42-43, asst. prof, 43-49, assoc. prof, 49-54, PROF, 54- Consult, U.S. Dept. Air Force, 43-52; U.S. Strategic Bombing Surv, 45. Chmn. exec. cmt, Cambridge Res. Inst. Econ. Asn; Soc. Pub. Admin. Publ: The administrator: cases on human relations in business;

Attack on big business; co-auth, High-level administration in a large organization, Harvard Bus. Sch, 60. Address: Soldiers Field, Boston, Mass. 02163.

GLOVER, DR. LELAND E(LLIS), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

GLOVER, PROF. LOYD, JR, b. Nebr, Apr. 17, 21; m. 50. AGRICULTURAL ECONOMICS. B.Sc, Nebraska, 48, M.A, 50; Ph.D.(agr. econ), Wisconsin, 55. Asst, agr. econ. dept, Wisconsin, 52-53; asst. prof. agr. econ, S.DAK. STATE, 54-56, assoc. prof, 56-59, PROF. ECON, 59-, head dept, 59-66. Agr. Econ. Asn; Int. Asn. Agr. Econ. Resource development; economic growth; agricultural policy. Address: 1019 Circle Dr, Brookings, S.Dak. 57006.

GLOVER, DR. ROBERT SPICER, b. Trenton, Ky, Aug. 30, 29; m. 51; c. 2. AGRICULTURAL ECONOMICS. B.S, Austin Peay State Col, 56; M.S, Auburn, 56; Coun. South. Univs. fel, Texas A&M, 62-63, Ph.D.(agr. econ), 64. Asst. prof. agr. econ, Stephen F. Austin State Col, 57-58; from asst. prof. to assoc. prof. econ, Austin Peay State Col, 59-65; ASST. PROF. AGR. ECON, AUBURN, 65- Sig.C, U.S.A, 51-53, 1st Lt. Econ. Asn; Mkt. Asn; Agr. Econ. Asn. Consumer marketing; initiating and conducting state and regional consumer panels to study consumer attitudes and preferences for beef and poultry products. Publ: Market research methods and procedures used in southern regional beef marketing projects, Auburn Univ, 68; Food-surplus or shortage?, Ala. Agribus, 10/66; co-auth, Estimates of the impact of the poverty program on demand for selected foods, J. Ala. Acad. Sci, 67. Address: 857 Cahaba Dr, Auburn, Ala. 36830.

GLOVER, DR. WILBUR H(ILLMAN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GLOVIN, PAUL N(ORMAN), Statist, see 10th ed, Soc. & Behav. Vols.

GLOWIENKA, EMERINE, R.S.C.J, b, Milwaukee, Wis, Mar. 9, 20. SOCIOLOGY. B.A, Marquette, 42, M.A, 51; Ph.D.(sociol), St. Louis, 56. Instr. sociol, Barat Col, 55-58; chmn. dept, 61-62; chmn. dept, Duchesne Col, 58-61; PROF. SOCIOL. & CHMN. DEPT. SOCIOL. & SOC. WELFARE, SAN FRANCISCO COL. WOMEN, 62- Sociol. Asn. Sociological theory and social philosophy and the teaching of these areas. Publ: Social philosophy as a synthesis of the social sciences within the philosophy of nature, Am. Cath. Sociol. Rev, fall 63. Address: Dept. of Sociology, San Francisco College for Women, San Francisco, Calif. 94118.

GLOYE, DR. EUGENE E(RNEST), b. Michigan City, Ind, Aug. 29, 27; m. 49; c. 2. PSYCHOLOGY. B.A, Nebraska Wesleyan, 49; M.A, Nebraska, 51, Ph.D, 54. Asst. anthrop, Nebraska, 54; instr. psychol, Col. Wooster, 54-56; Trinity (Tex), 56-57; assoc. prof, Whittier Col, 57-66; PSYCHOLOGIST, OFF. NAVAL RES, 66- Res. assoc, Victoria (B.C), 64. Consult, J.F. Marcy & Assoc, 65- AAAS; Psychol. Asn. Personality; cross-cultural studies; military psychology; physiology and psychology of vision; computer applications in behavioral sciences. Address: Office of Naval Research, 1030 E. Green St, Pasadena, Calif. 91101.

GLUCK, DR. HENRY, b. Cleveland, Ohio, May 28, 24. PSYCHOLOGY. A.B, Harvard, 47; M.A, Western Reserve, 56, Ph.D.(psychol), 58. Res. fel. psychiat, CASE WESTERN RESERVE, 56-58, ASSOC. IN PSYCHOL. & ASST. PROF. PSYCHOL. IN PSYCHIAT, SCH. MED, 58- Med.C, U.S.A, 48-49. AAAS; Psychol. Asn. Brain mechanisms in behavior, particularly conditioning. Address: 2725 Lancashire Rd, Cleveland, Ohio 44106.

GLUCK, DR. MARTIN R(ICHARD), b. Pittsburgh, Pa, Sept. 9, 27; m. 51; c. 3. PSYCHOLOGY. B.S, Pittsburgh, 48, M.S, 50, Ph.D.(clin. psychol), 53. Lectr. psychol, Pittsburgh, 50-51; staff psychologist, Worcester Youth Guid. Center, Mass, 56-57, supvr. psychologist, 57-59; chief psychologist, South Hills Child Guid. Center, 59-65; ASSOC. PROF. PSYCHOL. SOUTHWEST. MED. SCH, TEXAS, 65- Field instr, Univ. Pittsburgh, 62-65, adj. asst. prof, dept. speech, 63-65. Instr, Mem. Hosp, Worcester, 57-59; exten. serv. Boston, 58-59; chief psychologist, North Cent. Ment. Health Center, Fitchburg, 58-59. Consult, Tex. Scottish Rite Hosp, for Crippled Children, 65-; Callier Hearing & Speech Center, 66- Med.Serv.C, 51-56, 1st Lt. Psychol. Asn; Soc. Res. Child Develop; Speech & Hearing Asn. Clinical psychology training; community psychology; clinical processes, organization and functioning. Publ: Co-auth, Some training and early occupational characteristics of recent Ph.D.'s in clinical psychology, J. Clin. Psychol, 65; Feedback for planning, 66 & Methodology and problems of clinical data collection and processing, J. Am. Acad. Child Psychiat. Address: Division of Psychology, University of Texas Southwestern Medical School, 5323 Harry Hines Blvd, Dallas, Tex. 75235.

GLUCKSBERG, DR. SAM, b. Montreal, Can, Feb. 6, 33; U.S. citizen, m. 56; c. 3. EXPERIMENTAL PSYCHOLOGY. B.Sc, City Col. New York, 56; Ph.D. (exp. psychol), N.Y. Univ, 60. Instr. psychol, N.Y. Univ, 59-60; res. psychologist, U.S. Army Human Eng. Labs, 60-62, dep. chief psychol. res, 62-63; inst. PSYCHOL, PRINCETON, 63-64, asst. prof, 64-67, ASSOC. PROF. & ACTING CHMN. DEPT, 68- Res. consult, U.S. Army Human Eng. Labs, 63-U.S.A, 58-63, Capt. AAAS; Psychol. Asn; Psychonomic Soc. Publ: Symbolic processes, W.C. Brown, 66; sr. auth, Studies of the development of inter-personal communication, Merrill-Palmer Quart, 67; Functional fixedness: stimulus equivalence mediated by acoustic similarity, J. Exp. Psychol, 67. Address: Dept. of Psychology, Princeton University, Princeton, N.J. 08540.

GLUECK, DR. BERNARD C(HARLES), Psychiat, see 11th ed, Phys. & Biol. Vols.

GLUECK, DR. ELEANOR T(OUROFF), b. New York, N.Y, Apr. 12, 98; m. 22; c. 1. CRIMINOLOGY. B.A, Barnard Col, Columbia, 20; N.Y. Sch. Soc. Work, 21; M.Ed, Harvard, 23, Ed.D, 25, hon. S.D, 58. Researcher criminol, dept. soc. ethics, HARVARD, 25-28, CO-DIR. RES. PROJ. INTO CAUSES, TREATMENT & PREV. JUVENILE DELINQUENCY, LAW SCH, 28- Trustee, Judge Baker Guid. Center. Tech. consult, White House Conf. Children & Youth, 60; mem. delinquency cmt, conf. ment. health, Am. Med. Asn, 61. Parsons Mem. award, United Prison Asn, Mass, 47; Vollmer award, Am. Soc. Criminol, 61; First Beccaria gold medal, German Soc. Criminol. & spec. gold medal, inst. criminal anthrop, Univ. Rome, 64. Fel. Am. Acad. Arts & Sci; Int. Soc. Criminol. Causes, prevention and treatment of delinquency; typology and after-careers of delinquents; methods of identifying potential delinquents. Publ: One thousand juvenile delinquents, 34, Unraveling juvenile delinquency, 50 & Delinquents and nondelinquents in perspective, 68, Harvard. Address: Westengard House, Harvard University, 3 Garden St, Cambridge, Mass. 02138.

GLUECK, PROF. SHELDON, Criminal Law, see 5th ed. Dir. of Am. Scholars, Vol. IV, Philos, Relig. & Law.

GLUSKIN, DR. SAMUEL, b. Brooklyn, N.Y, June 1, 25; m. 48; c. 4. CLINICAL PSYCHOLOGY. B.S.S, City Col. New York, 48, M.S, 49; Ph.D, N.Y. Univ, 55. Psychometrist, testing & adv. center, N.Y. Univ, 49-50; intern psychol, N.J. Reformatory, Annandale, 51-53; dir. dept. psychol, Attica State Prison, N.Y, 53-56; State Home Girls, N.J, 56-58; sr. clin. psychologist, Cent. N.J. Ment. Hyg. Clins, 58-59; DIR. DEPT. PSYCHOL, N.J. State Hosp, Marlboro, 59-66; E.R. Johnstone Training & Res. Center, N.J, 66-67; YARDVILLE RECEPTION & CORRECTION CENTER, 67- Lectr, Monmouth Col.(N.J), 63-64. Private practice, 56-; consult, Rahway Prison Farms, N.J, 63- Founders' Day award, N.Y. Univ, 56. U.S.A, 44-45. Psychol. Asn. Mentally retarded delinquent boys. Address: 1304 Sunset Ave, Wanamassa, N.J. 07712.

GNAGEY, PROF. WILLIAM J(OEL), b. Milledgeville, Ill, Aug. 16, 27; m. 47; c. 4. EDUCATIONAL PSYCHOLOGY. B.S, Wayne State, 49, M.Ed, 53, fel, 57-58, Ph.D, 59. Teacher, elem. sch, Mich, 49-53; assoc. prof. ed, Manchester Col, 53-60; asst. prof, Butler, 60-61; assoc. prof. PSYCHOL, ILLINOIS STATE, 61-66, PROF, 66- Psychol. Asn; Ed. Res. Asn. Effects of various methods of teaching on achievement and attitudes of students. Publ: Psychology of discipline in the classroom, Macmillan, 68; Student attitude learning as a function of parental acceptance and sex of teachers, J. Teacher Ed, 68; Parental acceptance and the professional attitudes of students in teacher education, J. Ed. Res, 1/68. Address: Dept. of Psychology, Illinois State University, Normal, Ill. 61761.

GOATES, PROF. WALLACE A(LBERT), Audiol, Speech Pathol, see 11th ed, Phys. & Biol. Vols.

GOBAR, DR. ASH, b. European Georgia, Apr. 7, 30; nat; m. 57. THEORETICAL PSYCHOLOGY. B.A, Col. of Wooster, 52; M.A, Chicago, 54; Ph.D. (philos, psychol), Wisconsin, 59. Nat. Inst. Ment. Health res. fel. theoret. psychol, 59-61; instr. PHILOS. & PSYCHOL, Concord Col, 61-62, asst. prof, 62-67; ASSOC. PROF, HARTFORD, 67- Traveling fel, Geneva, 59-60; vis. scholar, Columbia, 60-61. Philos. Sci. Asn; Hist. Sci. Soc. Theories of perception and thinking; epistemological aspects of perception and conceptual thinking; methodological and theoretical problems of psychology as a natural science. Publ: Philosophical foundations of genetic psychology and Gestalt psychology, M.Nijhoff N.V, The Hague, Netherlands, 67. Address: Dept. of Psychology & Philosophy, University of Hartford, West Hartford, Conn. 06117.

GOBETZ, DR. GILES E(DWARD), b. Celje, Slovenia, July 25, 26; U.S. citizen; m. 66; c. 1. SOCIOLOGY, SOCIAL PSYCHOLOGY. Naples, 48-49; St. Bonaventure, 50-52; John Carroll, 52-54; M.A, Washington, 55; Ph.D.(sociol), Ohio State, 62. Resettlement officer & interpreter, UN/Int. Refugee Orgn, Trani, Italy, 46-47, hosp. admin, Trani & Bagnoli, 47-48; psychiat. soc. worker, Ohio Dept. Health, 60-61; lectr. sociol, Ohio State, 61-62; Maryland, 62-63; sr. res. assoc, Community Action for Youth, 64-67; res. dir, Cleveland Soc. Blind, 67; ASSOC. PROF. SOCIOL. & ANTHROP, KENT STATE, 67- Dir, Slovenian Res. Center Am, 58-; exec. secy, Euram Books, 58- Brit. Army, 45-46. Sociol. Asn; Med. Correctional Asn. American immigration; eastern European studies; youth-development and delinquency prevention demonstration research; rehabilitation of the blind; personality and sociology of knowledge research. Publ: Love moves mountains, C-M Press, 60; Scouting and the disadvantaged girl, Cay, 67; From Carniola to Carnegie Hall, Euram Books, 68. Address: 29227 Eddy Rd, Wickliffe, Ohio 44092.

GOBETZ, DR. WALLACE, b. Brooklyn, N.Y, Dec. 18, 16; m. 42; c. 2. PSYCHOLOGY. B.A, N.Y. Univ, 38, M.A, 40, Ph.D.(psychol), 52. Instr. PSYCHOL, N.Y. UNIV, 46-52, adj. asst. prof, 53-58, ASSOC. PROF, 58-, DIR, TESTING & ADVISEMENT CENTER, 52-, sr. psychologist, 46-52. U.S.A, 42-46, 2nd Lt. Psychol. Asn; Personnel & Guid. Asn. Counseling, clinical and personnel psychology. Publ: Quantification, standardization and validation of the Bender-Gestalt test on normal and neurotic adults, Psychol. Monogr; Physical therapy school admission test batteries, Phys. Ther. Rev; Proposed code of ethics regarding the announcement of vocational guidance services to the public, Personnel & Guid. J. Address: 540 E. 22nd St, Brooklyn, N.Y. 11226.

GOCHMAN, DR. DAVID S(AMUEL), b. Brooklyn, N.Y, Dec. 29, 36. PSYCHOLOGY. B.A, Chicago, 56 & 57; Nat. Inst. Ment. Health fel, Colorado, 58-59 & 61-62, M.A, 60, Ph.D.(soc. psychol), 62. Asst. PSYCHOL, Colorado, 57-58 & 59-61; asst. prof, Park Col, 62-63, chmn. dept, 63; staff ed, Int. Encyclop. Soc. Sci, 64-67; RES. ASSOC, PUB. HEALTH PRACTICE RES. PROG, DEPT. COMMUNITY HEALTH SERV, SCH. PUB. HEALTH, MICHIGAN, 67- Psychol. Asn. Functioning and development of cognitive structure; health beliefs and expectancies and their organization and relations with total personality; intellectual functioning, measurement and deficiency. Publ: A systemic approach to adaptability, Perceptual & Motor Skills, 23: 759-769; Systems analysis; psychological systems, In: International encyclopedia of the social sciences, Macmillan, 68. Address: 122 S. First St, Ann Arbor, Mich. 48108.

GOCKA, DR. EDWARD F(RANCIS), b. Norwich, Conn, Oct. 28, 23; m. 59; c. 1. PSYCHOLOGY. B.S, Washington (Seattle), 51, M.S, 57, Ph.D.(psychol), 59. Psychol. trainee, Vet. Admin, 59-60; dir. counseling psychol. & ed, Wash-

ington (Seattle), 60-61; chief res, VET. ADMIN. HOSP, American Lake, Wash, 61-63, assoc. dir. opers, WEST. RES. SUPPORT CENTER, SEPULVEDA, CALIF, 63-66, CHIEF, 66- U.S.N, 42-46. Psychol. Asn; Psychomet. Soc; Statist. Asn; Ed. Res. Asn. Prediction of human behavior by multivariate measurement techniques; psychological implications of schizophrenia. Publ: Analytic methods of rotation in factor analysis; Some effects of interruption frequency on the perception of direct current phosphenes, Perceptual & Motor Skills; co-auth, Second-order factors and response sets in personality measurement, J. Clin. Psychol. Address: 17117 Midwood Dr, Granada Hills, Calif. 91344.

GOCKEL, PROF. HARRY C, Mod. Hist, Geog, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GODARD, DEAN JERRY H, b. Durham, N.C, May 13, 36; m. 60; c. 3. PSYCHOLOGY, EDUCATION. B.S, Auburn, 58; Ed.D, Columbia, 66. Asst. dean, Auburn, 60-62; admin. asst. financial aid, Teachers Col, Columbia, 62-63, instr. guid, univ, 63-64; asst. prof. psychol. & dean students, Earlham Col, 64-66; ASSOC. PROF. PSYCHOL, GUILFORD COL, 66-, EXEC. DEAN, 68-, acting dean, 66-68. Res. assoc, col. characteristics study, Hazen Found, 62-64. Consult, Bellarmine Col, 67-68. Acad. Polit. & Soc. Sci. Application of behavioral theory and research to administrative practices and problems in higher education; colleges and universities as social systems, manifest attitude and behavior changes in college students. Publ: Co-auth, Selected issues in higher education, Teachers Col. Press, 65 & The student and his public image, Nat. Asn. Student Personnel Adminstr, 67. Address: Dept. of Psychology, Guilford College, Greensboro, N.C. 27410.

GODCHARLES, PROF. CHARLES, b. Milton, Pa, Oct. 17, 05; m. 34; c. 1. PSYCHOLOGY, PHILOSOPHY. B.A, Bucknell, 31; Ph.D.(philos), Duke, 37. From instr. to asst. prof. philos. & psychol, Bucknell, 34-41; prof, Millikin, 41-46; assoc. prof. PSYCHOL, Union Col, 46-48; PROF, Davidson Col, 48-51; HAMILTON COL, 51- Psychol. Asn. General and social psychology. Address: 302 College Hill Rd, Clinton, N.Y. 13323.

GODDARD, DR. G(RAHAM) V(ALENTINE), b. Essex, Eng, Oct. 17, 38; m. 61. PSYCHOLOGY, PHYSIOLOGY. B.A, Saskatchewan, 60, M.A, 61; Ph.D.(psychol), McGill, 63. Asst. prof. PSYCHOL, WATERLOO, 63-66, ASSOC. PROF, 66- Am. Psychol. Asn; Psychonomic Soc; Can. Psychol. Asn; Can. Physiol. Soc. Brain function; motivation; learning, epilepsy. Publ: Functions of the Amygdala, Psychol. Bull, 64; Amygdaloid stimulation and learning in the rat, J. Comp. & Physiol. Psychol, 64; Development of epileptic seizures through brain stimulation at low intensity, Nature, 67. Address: Dept. of Psychology, University of Waterloo, Waterloo, Ont, Can.

GODFREY, DR. E(DWIN) DREXEL, JR, b. New York, N.Y, June 14, 21; m; c. 4. POLITICAL SCIENCE. Woodrow Wilson fel, Princeton, 47, Soc. Sci. Res. Coun. fel, 50-51, Ph.D.(polit. sci), 52; Fulbright scholar, France, 50-51. Instr. polit. sci, Williams Col, 46-47, 51-53, asst. prof, 53-57; WITH U.S. GOVT, 57- U.S.A, 42-45. Comparative European politics. Publ: Fate of the French Non-Communist Left; The government of France; Communist presence in France, Am. Polit. Sci. Rev. Address: 11446 Links Dr, Reston, Va. 22070.

GODFREY, PROF. WILLIAM S(IMPSON), JR, b. Philadelphia, Pa, Mar. 25, 16; m. 45; c. 2. ANTHROPOLOGY. Fel, Harvard, 49-50, A.M, 50, Ph.D. (anthrop), 51. Asst. prof. ANTHROP, BELOIT COL, 51-56, assoc. prof, 56-62, PROF, 62-, CURATOR ARCHAEOL, LOGAN MUS. ANTHROP, 61- U.S.A.A.F, 42-45, 2nd Lt. Fel. AAAS; Anthrop. Asn.(exec. secy, secy. & treas, 54-59); Soc. Am. Archaeol; Asn. Phys. Anthrop. Archaeology of Guanajuato, Queretaro and San Luis Potosi, Mexico. Publ: Archaeology of the Old Stone Mill in Newport, Rhode Island, Am. Antiq; Vikings in America, theories and evidence, Am. Anthrop. Address: 1229 Chapin St, Beloit, Wis. 53511.

GODWIN, PROF. MARSHALL R(EID), b. Atmore, Ala, Apr. 4, 22; m. 46; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Florida, 42, M.S.A, 45; Ph.D.(mkt), Cornell, 49. Asst. mkt, Cornell, 46-49; assoc. prof. agr. econ, Maryland, 49-50; Florida, 50-58, prof, 58-65; proj. dir. U.S. Cong. Cmn. Food, Nat. Cmn. Food Mkt, D.C, 65-66; PROF. AGR. ECON, TEXAS A&M, 66- Consult, Food & Agr. Orgn, UN-Greece, 63; Econ. Res. Serv, U.S. Dept. Agr, 64-; NATO Parlimentarian's Conf, Europe & Mid. East, 66. U.S.M.C, 43-46, Res, 46-, Col. AAAS; Agr. Econ. Asn; Inst. Soc. & Behav. Sci. Agricultural marketing, emphasis primarily on the policy aspects of the national marketing system for food products and upon measurement of demand for food products. Publ: Organization and competition in the fruit and vegetable industry, Nat. Cmn. Food Mkt, 6/66. Address: Dept. of Agricultural Economics, Texas A&M University, College Station, Tex. 77843.

GODWIN, DR. WINFRED L(AMAR), b. Montgomery, Ala, May 15, 26; m. 48; c. 3. SOCIOLOGY. A.B, Birmingham Southern Col, 48; M.A, North Carolina, 50, fel, 50-51, Ph.D, 52. Res. assoc, North Carolina, 51-52; surv. dir, Co-ord. Coun, Ala, 52-53; from regional progs. assoc. to DIR, SOUTH. REGIONAL ED. BD, 53- U.S.A, 46-47. Sociol. Asn. Community and regional planning; small group analysis; education for the professions. Address: 130 Sixth St. N.W, Atlanta, Ga. 30313.

GOEBEL, DR. LAURENCE G, b. Buffalo Lake, Minn, June 4, 18; m. 52; c. 2. HUMAN DEVELOPMENT, EDUCATIONAL PSYCHOLOGY. B.A, Idaho, 41, M.S.Ed, 48; fel, Washington State, 47-48; Ed.D.(human develop), Maryland, 66. Teacher, high schs, Idaho, 41-42; counsr, high schs, Idaho & Wash, 47-48, 49-50; instr. & counseling evaluator, Air Force Career Counseling Center, Tex, 50-52, res. psychologist, personnel lab, Air Force Personnel & Training Res. Center, 52-57, br. chief. personnel & training res, Air Res. & Develop. Command, D.C, 57-60, behav. scientist, hq. Off. Aerospace Res, 61-65, chmn. life sci. div, 65-66, proj. scientist, Air Force Off. Sci. Res, 66-67; RES. ASSOC, BUR. RES, DIV. COMPREHENSIVE & VOC. ED. RES, U.S. OFF. ED, 67- U.S.A, 42-46; U.S.A.F, 50-67, Maj. AAAS; Research Soc; Ed. Res. Asn. Personnel selection tests; instructional techniques; teaching processes; learning; programmed instruction. Publ: A simple device for Skinner disc programs, Audiovisual Instr, 61. Address: Bureau of Research, Division of Comprehensive & Vocational Educational Research, U.S. Office of Education, 400 Maryland Ave, Washington, D.C. 20202.

GOEBEL, SISTER MARISTELLA, b. Racine, Wis, Sept. 10, 15. PSYCHOLOGY. B.S, Edgewood Col, 44; M.A, Catholic Univ, 47, univ. scholar, 62, Nat. Inst. Ment. Health grants, 62-63 & 66, Ph.D.(psychol), 66; Chicago, 53. Teacher, parochial schs, Ill, 35-43, S.Dak, 46-47, Ala, 47-49; assoc. prof. ed, Rosary Col, 49-61; community psychologist, Dominican Ed. Center, Sinsinawa, Wis, 66-67; ASSOC. PROF. PSYCHOL, ROSARY COL, 67- Ed, Teacher's Guides, Kindergarten-Grade 8 & chmn, Southeastern Curriculum Cmt, Dioceses of Fla, Ga. & Ala, 48-50; consult, Dominican Motherhouse, Sinsinawa, Wis, 67- Res. awards, Psi Chi, 63. Psychol. Asn. Personality; perception; social psychology. Publ: Christian social principles, Nat. Cath. Ed. Asn. Proc, 50; Cooperation between community schools and a small liberal arts college, In: Yearbook, Asn. Student Teaching, 61. Address: Dept. of Psychology, Rosary College, River Forest, Ill. 60305.

GOECKERMAN, PROF. ROBERT W, b. Woodside, Ohio, Mar. 24, 19; m. 48; c. 1. PSYCHOLOGY. B.Ed, Toledo, 54, M.A, 55; Michigan. Couns. psychologist, TOLEDO, 54-56, instr. PSYCHOL, 56-58, ASST. PROF, 58- U.S.A, 41-45. Personality theory. Address: 3042 Elmview Dr, Toledo, Ohio 43613.

GOEHRING, PROF. E(RWIN) E(LMER), b. Frohna, Mo, Sept. 27, 02. ECONOMICS. B.S, Missouri, 27; A.M, Chicago, 38, 39-41. Instr. econ. & acct, N.C. State Col, 27-29, asst. prof, 29-33; instr. BUS. & ECON, VALPARAISO, 35-39, asst. prof, 39-44, acting head dept, 41-46, assoc. prof, 44-49, head dept, 46-60, PROF, 49- Lectr, exten, Indiana, 47-53, 56 & 60. Econ. Asn; Finance Asn. Theories, methods and reliability of the theories and methods of security forecasting services. Address: Dept. of Finance, College of Business Administration, Valparaiso University, Valparaiso, Ind. 46383.

GOELZ, DEAN PAUL C(ORNELIUS), b. Bartelso, Ill, Oct. 7, 14. ECONOMICS. B.B.A, St. Louis, 39; M.A, Dayton, 46; M.B.A, Northwestern, 51, Ph.D. (econ), 54. From asst. prof. to PROF. MKT. & CHMN. DEPT. & DIR. GRAD. DIV, SCH. BUS, ST. MARY'S (TEX), 46-, DEAN. SCH. BUS, 62- Lectr, Exec. Develop. Insts, Monterrey, Parras & Torreon, Mex, 62; mem. lect. staff, top mgt. seminar, U.S. Dept. Defense, Rock Island Arsenal, Ill, 66- Consult, Fed. Trade Cmn, D.C, 65-66. Conferee, Oak Ridge Inst. Nuclear Studies, 65. Mkt. Asn; Acad. Mgt; Inst. Indust. Eng; Admin. Mgt. Soc; Asn. Bus. Econ. Economic analysis of industries; behavioral sciences; theory of decision making; industry structures; organizational theory; marketing; budgetary control; retail management; public housing. Publ: Analysis of the wholesale channels for meat: 1929 to 1953, Univ. Microfilms, 54; co-auth, Principles of retailing, Pitman, 55; auth, Philosophy of budgeting, Cath. Sch. J, 4/61. Address: School of Business, St. Mary's University of San Antonio, San Antonio, Tex. 78228.

GOERING, PROF. ORLANDO (JAMES), b. Moundridge, Kans, Nov. 7, 20; m. 44; c. 4. SOCIOLOGY. A.B, Bethel Col.(Kans), 43; B.D, Garrett Biblical Inst, 47; M.A, Iowa State, 55, Ph.D, 59. Head dept, Bible & sociol, Freeman Jr. Col, 47-56; PROF. SOCIOL. & HEAD DEPT, DAKOTA WESLEYAN, 58- Summer, vis. prof, Augustana Col.(S.Dak), 61. Nat. Coun. Family Rels. Dating, courtship, marriage, and family relations. Address: Dept. of Social Sciences, Dakota Wesleyan University, Mitchell, S.Dak. 57301.

GOERNER, DR. EDWARD A, b. Brooklyn, N.Y, Dec. 29, 29; m. 55; c. 5. POLITICAL SCIENCE. A.B, Notre Dame, 52; Harper fel. & Ph.D.(polit.sci), Chicago, 59. Instr. POLIT. SCI, Yale, 58-60; asst. prof, NOTRE DAME, 60-66, ASSOC. PROF, 66- Notre Dame West. European Area studies grant, 66-67. U.S.N, 52-55, Lt.(jg). Polit. Sci. Asn. Political philosophy; comparative government. Publ: Peter and Caesar, Herder & Herder, 65; ed, The constitutions of Europe, Regnery, 67. Address: Dept. of Government, University of Notre Dame, Notre Dame, Ind. 46556.

GOERTZEL, DR. VICTOR, b. Chicago, Ill, July 22, 14; m. 38; c. 3. PSYCHOLOGY. B.A, California, 38, M.A, 41; Ph.D, Michigan, 53. Asst. psychologist, Nat. Youth Admin, Ill, 36-37; bur. child study, Chicago Bd. Ed, 38-39; employ. interviewer, State Dept. Employ, Calif, 41-42; guid. dir, War Relocation Authority, Utah, 42-44; chief psychologist, Wayne County Hosp. & Ment. Hyg. Clin, Detroit, Mich, 45-55; res. dir, Fountain House Found, Inc, 55-61; RES. PSYCHOLOGIST, Camarillo State Hosp, 61-68; SAN MATEO COUNTY MENT. HEALTH SERV, 68- Psychol. Asn; Nat. Asn. Gifted Children (pres, 60-62). Gifted children; creativity and eminence; dynamics of schizophrenia; rehabilitation of psychiatric patients; use of closed circuit television in psychiatric treatment. Publ: Cradles of eminence, Little, 62; Effectiveness of activity group therapy with chronically regressed adult schizophrenics; Fountain House Foundation: case study of an ex-patients' club. Address: 101 Jenniebelle Dr, Apt. 5, San Mateo, Calif. 94403.

GOETHALS, DR. GEORGE W(ASHINGTON), b. Boston, Mass, Aug. 19, 20; m. 52; c. 7. PSYCHOLOGY. A.B, Harvard, 43, Eliot fel, 51-52, Ed.D.(human develop), 53. Asst, lab. human develop, Harvard, 50-52; mem. faculty psychol. & dir. teacher training, Sarah Lawrence Col, 52-56; lectr. ed, grad. sch. ed, HARVARD, 56-60, SOC. RELS, 60-65, ASSOC. CHMN. DEPT, 65-, ASST. DEAN, HARVARD COL, 64- Consult, Agency Int. Develop, Tunisia, 64-65. U.S.A.A.F, 44-46. Psychol. Asn; Statist. Asn; Sociol. Asn. Personality development. Publ: Co-auth, Role of the schools in mental health & War: studies from psychology, sociology, anthropology, Basic Books, 63. Address: 100 Russell Ave, Watertown, Mass. 02172.

GOETZ, PROF. BILLY E(ARL), b. Chicago, Ill, Jan. 17, 04; m; c. 3. INDUSTRIAL MANAGEMENT. Ph.B, Chicago, 24, Ph.D.(bus. admin), 49; Cornell, 26-28. Asst. & lectr, Chicago, 28-31, instr, 36-39; Buffalo, 31-32; staff engr, James O. McKinsy & Co, 33-35; instr, Ill. Inst. Tech, 35-42; asst. prof, Am. Univ, 42-43; PROF. bus. admin, Antioch Col, 45-54; MGT, MASS. INST. TECH, 54- Sr. assoc, Sessions Eng. Co, 35-42, 43-45 & 53-54. Acad. Mgt.(secy-treas, 54-56, v.pres, 57, pres, 58); Soc. Adv. Mgt; Am. Soc. Eng. Ed; Inst. Mgt. Sci; Am. Acct. Asn. Cost analysis; managerial accounting; industrial management. Publ: Management planning and control, 49 &

Quantitative methods, 65, McGraw; co-auth, Accounting in action, Houghton, 60. Address: Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

GOFF, PROF. CHARLES DAVIS, b. Sturgeon Bay, Wis, May 31, 15; m. 42; c. 2. POLITICAL SCIENCE. Ph.B, Wisconsin, 38; M.A, Northwestern, 41, Ph.D, 52. Asst. prof. POLIT. SCI, Wisconsin, Milwaukee, 47-61; PROF, WIS. STATE, OSHKOSH, 61- Spec. lectr, California, Los Angeles, 56; res. dir, Milwaukee Metrop. Study Cmn, 60. U.S.A, 42-45, 1st Lt. Polit. Sci. Asn. Politics of metropolitan governmental integration movements; abandonment of council-manager plan governments in Wisconsin. Publ: Refuse and garbage disposal in Milwaukee County; Pitfalls city managers should avoid, Pub. Mgt; Only one answer: incineration, Am. City. Address: Dept. of Political Science, Wisconsin State University, Oshkosh, Wis. 54901.

GOFF, DR. C(HARLES) W(EER), Orthop, see 11th ed, Phys. & Biol. Vols.

GOFF, DONALD HEISERMAN, Sociol, see 10th ed, Soc. & Behav. Vols.

GOFF, PROF. JOHN H(EDGES), Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

GOFF, PROF. SHEILA GRAHAM, b. Logan, Ohio, Sept. 18, 21; wid; m. 64. SPEECH, AUDIOLOGY. B.S, Ohio, 45, fel, 46-47, M.A, 47; Ph.D.(speech sci), Ohio State, 55. Asst speech, Ohio, 45-46; instr. Florida, 47-51; asst. OHIO STATE, 51-55, admin. asst. speech clin, 55-56, asst. prof. SPEECH, 56-64, ASSOC. PROF, 64- Summer asst. prof, Texas, 50. Speech & Hearing Asn; Speech Asn; Rehab. Asn; Asn. For. Student Adv; Teachers of Eng. to Speakers of Other Lang. Psychological scaling of children's articulation; vocalizations of infants. Publ: Co-auth, Speech and hearing disorders; In: Introduction to the field of speech, Scott, 65; Speech pathology, In: The communicative arts and sciences of speech, C.E. Merrill, 67. Address: Dept. of Speech, Ohio State University, 154 N. Oval Dr, Columbus, Ohio 43210.

GOFF, DR. W(ALTER) E(ARL), b. Aviston, Ill, July 22, 11; m. 56; c. 4. INDUSTRIAL ADMINISTRATION & ENGINEERING. B.Ed, Ill. State Norm. Univ, 34; M.A, Southwest Tex. State Teachers Col, 41; Ed.D, California, Los Angeles, 59. Supvr. indust. arts & indust. ed, pub. schs. & Southwest Tex. State Teachers Col, 38-39; personnel dir, South. Aircraft Corp, Tex, 39-41; head dept. eng. drawing & supvr. war training, Southern Methodist, 41-45; sect. coordinator instr, Warton Am. Tech. Sch, Eng, 45-46; pres, & gen. mgr, Mineralite Corp, Tex, 46-48; asst. prof. gen. eng, Southern California, 48-51; dir. training & ed. & supt. schs, Mene Grande Oil Co, Venezuela, 52-54; ASST. PROF. GEN. ENG, SOUTHERN CALIFORNIA, 55- Sr. indust. eng, Lone Star Defense Corp, 44-45; private contractor, 48-52; design eng. & supvr, Design Develop. Co, Calif, 55-57, consult, 55-60. Mem, Civil Serv. Interview Bd, Calif, 60. Administration of higher and industrial education; evaluation of incentives; problem solving methods in descriptive geometry. Address: Dept. of Industrial Engineering, University of Southern California, Los Angeles, Calif. 90007.

GOFF, DR. WILLIAM R(ICHARD), b. Providence, R.I, Apr. 7, 30; m. 57. EXPERIMENTAL PSYCHOLOGY. A.B, Brown, 54, M.S, 56, Ph.D.(exp. psychol), 60. Res. asst, PSYCHOL, SCH. MED, YALE, 59-64, ASST. PROF, 64-; RES. PSYCHOLOGIST & DIR. NEUROPSYCHOL. LAB, VET. ADMIN. HOSP, 64- AAAS; Electroencephalog. Soc; N.Y. Acad. Sci. Sensory psychology; neurophysiology. Publ: Co-auth, Cerebral electrical responses to external stimuli, In: EEG and behavior, Distribution of cerebral somatosensory evoked responses in normal man & Cerebral somatosensory responses evoked during sleep in man, 66, Electroencephalog. Clin. Neurophysiol. Address: Veterans Administration Hospital, West Haven, Conn. 06516.

GOFFARD, DR. S(IDNEY) JAMES, b. Minneapolis, Minn, Sept. 24, 16. PSYCHOLOGY. B.A, Michigan, 38, M.A, 40; Ph.D.(psychol), Minnesota, 49. Instr. psychol, Duke, 47-50, asst. prof, 50-51; RES. SCIENTIST, HUMRRO, GEORGE WASHINGTON, 51- Psychol. Asn. Experimental design and techniques of analysis. Address: HumRRO, Division 3, Box 5787, Presidio of Monterey, Calif. 93940.

GOFFMAN, PROF. ERVING, b. Can, June 11, 22; m. 52; c. 1. SOCIOLOGY. Ph.D.(sociol), Chicago, 53. Asst, div. soc. sci, Chicago, 52-53, res. assoc, 53-54; vis. scientist, Nat. Inst. Ment. Health, 54-57; asst. prof. SOCIOL, CALIFORNIA, BERKELEY, 58-59, assoc. prof, 59-62, PROF, 62- Social organization and interaction; deviancy. Publ: Presentation of self in everyday life; Asylums; Behavior in public places. Address: Dept. of Sociology, University of California, Berkeley, Calif. 94720.

GOFFMAN, DR. IRVING J(AY), b. Montreal, Que, Apr. 21, 33; m. 56; c. 2. ECONOMICS, PUBLIC FINANCE. B.A, McGill, 54; univ. scholar, Duke, 54-57, M.A, 57, Commonwealth fel, 57-58, Ph.D.(econ), 59. Instr. econ, N.C. State Col, 55; Duke, 56-57; res. economist, Govt. Can, 58-59; asst. prof. ECON, FLORIDA, 59-63, ASSOC. PROF, 63- Am. Econ. Asn; Can. Econ. Asn. Economic theory; federalism and fiscal economics; public expenditure theory; growth of public sector in Latin America; impact of provincial spending and taxing on Canadian stabilization policy. Publ: The burden of Canadian taxation, Can. Tax Found, 62; co-auth, Contemporary Canada, Duke, 68; auth, On the empirical testing of Wagner's Law, Pub. Finance, 68. Address: Dept. of Economics, University of Florida, Gainesville, Fla. 32601.

GOFFMAN, DR. IRWIN WILLIAM, b. Detroit, Mich, June 13, 28. SOCIOLOGY, SOCIAL PSYCHOLOGY. Ph.D, Michigan, 59. ASSOC. PROF. SOCIOL, N.Y. UNIV, 68- Sociol. Asn; Psychol. Asn. Socialization and group structure. Address: 19 University Place, New York, N.Y. 10003.

GOFORTH, DR. EUGENE GEORGE, b. Bloomington, Ill, June 18, 12; m. 37; c. 4. MEDICINE. B.S, Illinois, 38, M.D, 41. From asst. clin. prof. to ASSOC. CLIN. PROF. PSYCHIAT, MED. SCH, WASHINGTON (SEATTLE), 47- Teaching psychiatrist, Community Psychiat. Clin, Seattle, 64- Consult, Veterans Admin, 47-; Pinel Found. Sanitarium, 48-58; Inst. Juvenile Res, Chicago, Ill, 50-51. Med.C, 42-46, Maj. Am. Med. Asn; Psychiat. Asn; Psychoanal. Asn; fel. Col. Physicians. Psychoanalysis; psychiatry; psychological effects on adults who have lost a parent in the first six years of life; depressive states in schizophrenics; drug treatment of Gilles de la Tourettes' syndrome. Publ: Co-auth, Effects of the presence of an observer and a hidden observer on the defensive patterns of an ongoing group, Int. J. Group Psychother, 7/66. Address: 2271 N.E. 51st St, Seattle, Wash. 98105.

GOGEL, DR. WALTER C(HARLES), b. Elizabeth, N.J, Sept. 25, 18; m. 45; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Marietta Col, 48; Ph.D.(psychol), Chicago, 51. Psychophysiologist, U.S. Army Med. Res. Lab, Ft. Knox, Ky, 51-61; res. psychologist, Civil Aeromed. Res. Inst. Fed. Aviation Agency, 61-65; PROF. PSYCHOL, CALIFORNIA, SANTA BARBARA, 65- U.S.A, 42-45. Psychol. Asn; Optical Soc; Psychonomic Soc. Perception; vision; psychophysics. Publ: Size cue to visually perceived distance, 64 & Equidistance tendency and its consequences, 65, Psychol. Bull; Size cues and the adjacency principle, J. Exp. Psychol, 65. Address: Dept. of Psychology, University of California, Santa Barbara, Calif. 93106.

GOGGIN, PROF. JOHN M(ANN), Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 63.

GOINS, DR. ALVIN EVERETT, b. Washington, D.C, Oct. 31, 25; div; c. 2. PSYCHOLOGY. B.S, Howard, 53, M.S, 55; Ph.D, American Univ, 67. Sr. specialist, President's Cmn. Crime in D.C, 65-66; asst. mgr. selection res, Bur. Naval Personnel, U.S. Navy, 66-67; HEALTH SCIENTIST ADMINSTR. & EXEC. SECY, PERSONALITY & COGNITION RES. REV. CMT, DIV. EXTRAMURAL RES, NAT. INST. MENT. HEALTH, 67- U.S.A, 44-46, 50-51, 1st Sgt. Psychol. Asn; Soc. Psychol. Study Soc. Issues; Soc. Eng. Psychol; Acad. Polit. & Soc. Sci; Acad. Relig. & Ment. Health. Personality and cognitive development, research and measurement; social psychology, especially social issues; personnel and human factors research. Publ: Rigidity-flexibility: toward clarification, Merrill-Palmer Quart; Simulation studies of the naval combat information center: content time analysis of verbal communication within the system; co-auth, Ethnic and class preferences of college Negroes, J. Negro Ed. Address: 206 Emerson St. N.W, Washington, D.C. 20011.

GOINS, DR. JOHN F(RANCIS), b. Birmingham, Ala, Dec. 21, 15; m. 38; c. 2. ANTHROPOLOGY. Doherty fel, California, 51-52, Ph.D.(anthrop), 54. Instr. ANTHROP, CALIFORNIA, RIVERSIDE, 54-55, asst. prof, 55-61, ASSOC. PROF, 61- Soc. Sci. Res. Coun. Cmt. Latin Am. fel, 60-61. Anthrop. Asn; Ethnol. Soc. Law and government; art; Andean culture history. Address: 3578 Mt. Vernon, Riverside, Calif. 92507.

GOLAY, PROF. FRANK H(INDMAN), b. Windsor, Mo, July 2, 15; m. 45; c. 4. ECONOMICS. B.S, Cent. Mo. State Col, 36; M.A, Chicago, 48, Ph.D, 51; hon. LL.D, Ateneo de Manila, 66. Economist, int. div. bd. governors, Fed. Reserve Syst, 50-52; from asst. prof. to PROF. ECON, CORNELL, 53-, ASSOC. DIR. CORNELL SOUTHEAST ASIA PROG, 61-, chmn. dept. econ, 62-67. Fulbright res. fel, Philippines, 55-56; Guggenheim res. fel, Philippines & Malaya, 60-61; vis. lectr, Sch. Oriental & African Studies, London, 65-66. Consult, Agency Int. Develop, 64-67. Ed, Philippine-Am. Assembly, Davao, 66. U.S.N, 41-45. Asia Soc. International economics; economic development; East and Southeast Asian economics. Publ: Ed, The Santo Tomas Story, McGraw, 64; ed. & co-auth, The United States and the Philippines, Prentice-Hall, 66 & Rice and people in 1990, U.S. Agency Int. Develop, Manila, Philippines, 67. Address: 109 N. Sunset Dr, Ithaca, N.Y. 14850.

GOLD, PROF. BELA, b. Hungary, Jan. 30, 15; nat; m. 38; c. 1. ECONOMICS. B.S, N.Y. Univ, 34; univ. fel, Columbia, 36-37, Soc. Sci. Res. Coun. fel, 37-38, Ph.D.(econ), 38. Chief res. asst. to Robert S. & Helen M. Lynd, 35-36; res. consult. econ. & mgt, Life Ins. Sales Res. Bur, Conn, 38-39; asst. head div. prog. surv, bur. agr. econ, U.S. Dept. Agr, 39-43; econ. consult, subcmt. war mobilization, U.S. Senate, 43-44; econ. adv. int. commodity arrangements, For. Econ. Admin. & U.S. Dept. Commerce, 44-46; from assoc. prof. econ. to prof. indust, grad. sch. bus, Pittsburgh, 47-66; TIMKEN PROF. INDUST. ECON, CASE WESTERN RESERVE, 66-, DIR. RES. PROG. INDUST. ECON, 66-, CHMN. DEPT. ECON, 67- Ford Found. faculty fel, 61-62, int. study & res. award, 66-67; prof. res. fel, Nuffield Col, Oxford, 64; vis. prof, Imp. Col, London, 66-67. AAAS; Econ. Asn; Inst. Mgt. Sci. Industrial economics, interaction of economics and technology; theory of, and guides to managerial control; national policies to stimulate technical progress. Publ: Foundations of productivity analysis; Wartime economic planning in agriculture; Long term cost patterns in iron and steel. Address: 2300 Overlook Rd, Cleveland, Ohio 44106.

GOLD, DR. BERNARD H(OWARD), b. Chicago, Ill, Feb. 17, 19. CLINICAL PSYCHOLOGY. S.B, Chicago, 39, A.M, 41, Ph.D.(clin. psychol), 52. Clin. psychologist, VET. ADMIN, 46-56, CHIEF CLIN. PSYCHOLOGIST, WEST SIDE MENT. HYG. CLIN, 56-; ASST. PROF. PSYCHOL, PRFNL. SCHS, ILLINOIS, 52- Consult, Ill. State Psychiat. Inst, 66- U.S.A, 42-45, 51-52, Lt. AAAS; Psychol. Asn. Psychotherapy; psychosomatic disease; personality theory. Publ: Relationship between degree of chronic stress and severity of psychosomatic disease; Effects of emotional stress and ataractic drugs upon blood flow characteristics; co-auth, Relationship between blood sedimentation values and tranquilizing effect of Thorazine, J. Nerv. & Ment. Diseases, 5/67. Address: 2848 Twin Oaks Dr, Highland Park, Ill. 60035.

GOLD, DR. BERTRAM, b. New York, N.Y, Aug. 5, 28; m. 53; c. 2. PSYCHOLOGY, STATISTICS. B.A, Colorado, 50; M.A, Columbia, 52, Ph.D, 57. Asst. psychol, HumRRO, 53-55, Columbia, 55-56; res. exec. mkt. res, Batten, Barton, Durstine & Osborn, Inc, 56-59; sr. proj. dir, Lennen & Newell, 59, Marplan Div, McCann Erickson, 59-60; v.pres, Creative Res. Serv, Inc, 60-62; res. supvr, Kenyon & Eckhardt, Inc, 62-64; res. dir, A.J. Wood Res. Corp, 64-65; PRES, SCI. SURVEYS CORP, 65- Lectr, Pace Col, 56-57. Adv. Res. Found. award, 61. U.S.A, 53-55. Psychol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Market, opinion, advertising and communications research; interviewing techniques. Address: 45 Brewster Rd. W, Massapequa, N.Y. 11758.

GOLD, PROF. DAVID, b. Centerville, Iowa, June 2, 24; m. 48; c. 3. SOCIOLOGY. B.A, Iowa, 47, M.A, 48; Walgreen scholar, Chicago, 48-49, Marshall Field fel, 49-50, Ph.D.(sociol), 53. Asst. SOCIOL, Iowa, 47-48; Chicago, 49; asst. prof, Iowa, 50-56, assoc. prof, 56-63; PROF, CALIFORNIA, SANTA BARBARA, 63-, CHMN. DEPT, 64-, DIR. COMMUNITY & ORGN. RES. INST, 67- Fel, Center Adv. Study Behav. Sci, 54-55; Soc. Sci. Res. Coun. faculty res. fel, 57-60; vis. prof, California, Berkeley, 63-64. Mem. adv. panel sociol. & psychol, Nat. Sci. Found, 61-63; adv. cmt. for Iowa, U.S. Cmn. Civil Rights, 62-63; statewide soc. sci. study cmt, Calif. Dept. Ed, 66-, chmn. adv. panel soc, 66- U.S.A.A.F, 43-46, 1st Lt. AAAS; Sociol. Asn; Asn. Pub. Opinion Res. Social research methodology; statistical analysis of qualitative data; political sociology. Publ: Some requirements for quantitative methods in behavioral science research, Pergamon, 62; Some problems in generalizing aggregate associations, Am. Behav. Scientist, 64; On the empirical classification of formal groups, Am. Sociol. Rev, 64. Address: Dept. of Sociology, University of California, Santa Barbara, Calif. 93106.

GOLD, DR. LEO, b. New York, N.Y, Jan. 13, 24; m. 54; c. 2. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 48, M.A, 49, Ph.D, 60. Clin. intern psychologist, State Intern Training Prog, N.Y, 50-51; staff psychologist, Wernersville State Hosp, Pa, 51-52, dir, 52-54; psychologist & asst. dir, Riverside Hosp, New York, N.Y, 54-58, dir, 58-59; PSYCHOANALYST, 58- Asst. dir, Alfred Adler Ment. Hyg. Clin, New York, N.Y, 59-66, clin. & inst. coordinator, Alfred Adler Inst, 59- U.S.A, 42-45. Psychol. Asn; Group Psychother. Asn. Psychoanalytic therapy and training methods; mental hygiene clinic administration; problems of adolescence; community mental health; problems in the treatment of schizophrenia. Publ: Toward an understanding of adolescent drug addiction; co-auth, Finger-paintings as an aid in personality evaluation of 44 adult hospitalized mentally ill patients, Psychiat. Quart. Suppl. Address: 32 New England Rd, Maplewood, N.J. 07040.

GOLD, DR. LEONARD, Psychiat, Psychol, see 11th ed, Phys. & Biol. Vols.

GOLD, DR. LOIS SWIRSKY, b. Newark, N.J, Nov. 21, 41; m. 68. POLITICAL SCIENCE. A.B, Goucher Col, 63; Ph.D.(polit. sci), Stanford, 68. Fel. bargaining & negotiation, Syst. Develop. Corp, 67-68; LECTR. POLIT. SCI, CALIFORNIA, BERKELEY, 68- Polit. Sci. Asn. International and comparative politics; conflict resolution; bargaining and negotiation; methodology; political psychology. Address: 1535 Scenic Ave, Berkeley, Calif. 94708.

GOLD, DR. MARTIN, b. New York, N.Y, Feb. 28, 31. SOCIAL PSYCHOLOGY. A.B, Dartmouth Col, 53; A.M, Michigan, 55, fel, 56-57, Ph.D.(soc. psychol), 61. Asst. PSYCHOL, MICHIGAN, 53-54, instr, 57-61, asst. prof, 61-68, ASSOC. PROF, 68-, PROG. DIR, RES. CENTER GROUP DYNAMICS, INST. SOC. RES, 65-, asst, 54-61, study dir, 61-62, asst. prog. dir, 62-65. Psychol. Asn; Sociol. Asn. Social psychology of individual development, the interaction of primary relations, social organization and culture on attitudes, motives and skills, especially adolescence and delinquency and school and family environments. Publ: Status forces in delinquent boys, Inst. Soc. Res, 63; Suicide, In: Encyclopaedia Britannica; co-auth, Model patterns of American adolescence, In: Review of research in child development, Russell Sage, 66. Address: Research Center for Group Dynamics, Box 1248, Ann Arbor, Mich. 48106.

GOLD, PROF. RAYMOND L, b. Chicago, Ill, Nov. 15, 21; m. 48; c. 1. SOCIOLOGY. M.A, Chicago, 50, Ph.D.(sociol), 54. Asst. prof. SOCIOL, Alabama, 53-57; MONTANA, 57-59, assoc. prof, 59-65, PROF, 65-, RES. DIR, INST. SOC. SCI. RES, 66- U.S.A, 42-46. Fel. Sociol. Asn; fel. Soc. Appl. Anthrop; Soc. Study Social Probs; Soc. Sci. Study Relig. Sociology of occupations, professions and education; social psychology. Publ: Janitors versus tenants, a status-income dilemma, Am. J. Sociol; Roles in sociological field observations, Soc. Forces; co-auth, Pilot study of successful and unsuccessful businesses in Montana. Address: Dept. of Sociology, University of Montana, Missoula, Mont. 59801.

GOLD, DR. RICHARD MICHAEL, b. New York, N.Y, Apr. 20, 37; m. 65. PSYCHOLOGY. Middlebury Col, 54-57; U.S. Pub. Health Serv. trainee, Chicago, 63-65, Ph.D.(bio-psychol), 66. ASST. PROF. PSYCHOL, STATE UNIV. N.Y. COL. CORTLAND, 66-, Res. Found. grant, 68-70. Interdisciplinary fel. physiol, Albert Einstein Col. Med, 66; U.S. Pub. Health Serv. ment. health res. grants, 66-70. Psychol. Asn. Neuroanatomical correlates of eating and drinking behavior in rats; comparison of lesions with electrical stimulation; comparison of unilateral with bilateral electrical stimulation and lesions. Publ: Aphagia and adipsia produced by unilateral hypothalamic lesions in rats, Am. J. Physiol, 11/66; Aphagia and adipsia following unilateral and bilaterally asymmetrical lesions in rats, Physiol. & Behav, 4/67. Address: Dept. of Psychology, State University of New York College at Cortland, Cortland, N.Y. 13045.

GOLD, DR. RONALD B(ARRER), b. New York, N.Y, July 10, 40; m. 64; c. 1. ECONOMICS. B.A, Brooklyn Col, 62; M.A, Princeton, 64, Ph.D.(econ), 66. ASST. PROF. ECON, OHIO STATE, 65- Res. assoc. econ, Harvard Law Sch, 66-67. Econ. Asn. Public finance; international trade. Publ: Subsidies to industry in Pennsylvania, Nat. Tax. J, 9/66; Interregional factor transfers and regional unemployment, J. Polit. Econ, 4/68. Address: Dept. of Economics, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

GOLD, PROF. RUTH Z(WERLING), b. New York, N.Y, Jan. 1, 21; m. 46; c. 2. MATHEMATICAL STATISTICS. M.A, Columbia, 43, Ph.D, 60. Tutor math. & statist, Hunter Col, 45-50; biostatistician, med. col, Cornell, 50-61; asst. prof. biostatist, sch. pub. health, COLUMBIA, 61-68, ASSOC. PROF. ED, TEACHERS COL, 68- Statist. Asn; Biomet. Soc; Inst. Math. Statist. Biometrics; Markov chains. Publ: Fertility and sterility, J. Urol; Kinetics of human spermatogenesis, Ann. N.Y. Acad. Sci; co-auth, On the question of whether a disease is familial, J. Am. Statist. Asn, 6/67. Address: 175 W. 93rd St, New York, N.Y. 10025.

GOLD, DR. SONIA S, b. Dec. 12, 17, 17; m. 38; c. 1. ECONOMICS. B.A, Hunter Col, 38; American Univ, 39-40; Columbia, 40-41; Ph.D.(econ), Pittsburgh, 56. Res. asst. econ, U.S. House Cmt. Interstate Migration, 41-42; economist, U.S. Manpower Cmn, 42-43; U.S. Treas. Dept, 43-47; instr. ECON, Chatham Col, 51-54; asst. prof, Carnegie Inst. Tech, 59-66; ASSOC. PROF, JOHN CARROLL, 67- Scholar, Radcliff Inst, 66-68. Econ. Asn. Economics of underdeveloped areas. Publ: Co-auth, Ophthalmologist's role in rehabilitating the blind, Am. Found. Blind, 58; Work and leisure models, In: Am. values and tech, Macmilan, 68. Address: Dept. of Economics & Social Studies, John Carroll University, Miramar Blvd, Cleveland, Ohio 44118.

GOLDABER, DR. IRVING, b. New York, N.Y, Nov. 24, 25; m. 51; c. 2. SOCIOLOGY. B.A, Brooklyn Col, 48; M.A, Columbia, 51; Ph.D.(human rels), N.Y. Univ, 65. Asst, Mayor's Cmt. Unity, New York, 51-53; asst. coordinator, Nat. Community Rels. Adv. Coun, 53-57; asst. dir, New York City Cmn. on Human Rights, 57-61, dep. exec. dir, 61-67; V.PRES, SCI. RESOURCES INC, 67- Lectr, Brooklyn Col, 55- U.S.A, 44-46. Sociol. Asn; Soc. Study Social Probs. Intergroup relations. Address: 6 Stratford Court, North Bellmore, N.Y. 11710.

GOLDBECK, DR. ROBERT A, b. Dec. 13, 25. PERSONNEL PSYCHOLOGY. B.S, Northwestern, 49, M.S, 50; Ph.D, Missouri, 55. Res. psychologist, res. lab, Human Resources Res. Center, 50-51; res. assoc, Missouri, 54-55; from res. assoc. to sr. res. scientist, HumRRO, Am. Inst. Res, 55-63; ENG. SPECIALIST, WEST. DEVELOP. LAB, PHILCO-FORD, 63- U.S.N, 44-46. Psychol. Asn. Perceptual and motor skills; behavioral problems; missile system operating procedures and maintenance job studies. Address: Philco-Ford, Western Development Lab, 3939 Fabian Way, Palo Alto, Calif. 94303.

GOLDBERG, DR. ALFRED, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GOLDBERG, PROF. ALVIN, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

GOLDBERG, DR. ARTHUR S, b. Bronx, N.Y, Aug. 16, 33; m. 56; c. 2. POLITICAL SCIENCE. B.A, Connecticut, 56, M.A, 59; Ph.D.(polit. sci), Yale, 66. Instr. POLIT. SCI, ROCHESTER, 63-64, asst. prof, 64-68, ASSOC. PROF, 68- Nat. Sci. Found. summer grants, 66, 67 & fel, 67-68. U.S.A.R, 57-66, Capt. Polit. Sci. Asn. Research methods; voting behavior; political stability. Publ: Political science as science, In: Politics and social life, Houghton, 63; Discerning a casual pattern among data on voting behavior, Am. Polit. Sci. Rev, 66. Address: Dept. of Political Science, University of Rochester, Rochester, N.Y. 14627.

GOLDBERG, DR. B(ERNARD), Math, Econ, see 11th ed, Phys. & Biol. Vols.

GOLDBERG, DR. DELPHIS C(LARK), b. Troy, N.Y, Feb. 5, 20; m. 61; c. 1. POLITICAL SCIENCE, ECONOMICS. A.B, Union Col, 42; M.A, Harvard, 48, Ph.D, 55. Consult, State Dept. Ed, N.Y, 48-49, sr. personnel adminstr, State Dept. Soc. Welfare, 50, res. analyst, pub. welfare prog, 51-53; res. assoc. fed. grant-in-aid progs, U.S. Cmn. Intergovt. Rels, 54-55; prog. analyst, Presidents Cmn. Vet. Pensions, 55-56; MEM. PRFNL. STAFF, INTERGOVT. RELS. SUBCMT, CMT. GOVT. OPERS, U.S. HOUSE REP, 56- U.S.A.A.F, 42-45. Econ. Asn. Public administration and finance; federalism; legislation. Address: 3825 Garrison St. N.W, Washington, D.C. 20016.

GOLDBERG, DR. EDWARD M(ORRIS), b. New York, N.Y, May 18, 31; m. 57; c. 2. POLITICAL SCIENCE. B.A, Brooklyn Col, 53; M.A, New Mexico, 56; Ph.D.(polit. sci), Pennsylvania, 65. Asst, New Mexico, 56, vis. asst. prof. govt, 59-60; instr. polit. sci, Pennsylvania, 56-59, res. assoc, Fels Inst. Local & State Govt, 58-59; vis. asst. prof. polit. sci, San Diego State Col, 60-61; asst. prof. GOVT, CALIF. STATE COL. LOS ANGELES, 61-66, ASSOC. PROF, 66-, ASST. DEAN GRAD. STUDIES, SCH. LETTERS & SCI, 68-, asst. chmn. dept. govt, 67. Asst. res. polit. scientist, inst. govt. affairs, California, Davis, 66-67, assoc. res. polit. scientist, 67-; dir, Urban Affairs Found, 67- Res. consult, Taxpayers' Asn. N.Mex, 57, 60; consult, assembly cmt. on elections & reapportionment, Calif. Legis, 65. U.S.A, 53-55. Polit. Sci. Asn; Am. Law & Soc. Asn. Judicial process and behavior; constitutional law, civil rights; state legislative process and behavior; ecology and politics. Publ: Co-auth, Reapportionment in California, Assembly, Calif. Legis, 65; auth, Mr. Justice Harlan, the uses of history, and the congressional globe, J. Pub. Law, 66; The people legislate, Nat. Civic Rev, 66. Address: Dept. of Government, California State College at Los Angeles, Los Angeles, Calif. 90032.

GOLDBERG, DR. FAYE GIRSH, b. Philadelphia, Pa, May 5, 33; m. 58; c. 2. PSYCHOLOGY. A.B, Temple, 54; A.M, Boston, 55; Ed.D.(human develop), Harvard, 62. Res. asst, lab. human develop, Harvard, 56-57; clin. psychologist, Mass. Ment. Health Center, 57-58; soc. sci. analyst, Nat. Inst. Ment. Health, 59-62; instr. psychiat, Emory, 62-63, vis. lectr. ed, 64-65; ASST. PROF. PSYCHOL, MOREHOUSE COL, 65- Res. asst, California, Berkeley, summer 56; Danforth Found. res. grant, 67-68. Soc. Res. Child Develop; Soc. Psychol. Study Social Issues; Psychol. Asn. Attitudes toward capital punishment and juror behavior; scoring systems for mother-child interaction; sex differences in problem-solving; alteration of TAT figures by race, sex, age and influence on perception. Publ: Co-auth, Achievement as a function of the race and sex of figures on selected TAT cards, J. Personality & Soc. Psychol, 67. Address: 317 Hertford Circle, Decatur, Ga. 30030.

GOLDBERG, DR. FRANKLIN H(OWARD), b. New York, N.Y, Aug. 7, 31; m. 55. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 52, Ph.D, 62; M.A, Long Island, 54. Psychologist, New York Guid. Bur, 53; res. psychologist, Kings Park State Hosp, N.Y, 53-54; intern, Bellevue Psychiat. Hosp, 54-55; trainee, Vet. Admin, N.Y. & N.J, 55-58; clin. psychologist, Reading Inst, N.Y. Univ, 58-68, res. psychologist, res. center ment. health, 58-59; CHIEF PSYCHOLOGIST, JEWISH CHILD CARE ASN, NEW YORK, 68- Asst. psychologist, Stevens Hoboken Acad, N.J, 53-54; clin. res. psychologist, Jewish Bd. Guardians, 60-68; Peace Corps field assessment officer, Dartmouth Col, 67- Psychol. Asn; Orthopsychiat. Asn. Psychological processes outside of awareness; aspects of learning disability; evaluation of psychotherapy in a clinic setting. Publ: Performance of schizophrenic, retarded and normal children on the Bender-Gestalt test, Am. J. Ment. Deficiency; Partial cues and the phenomenon of discrimination without awareness, Perceptual Motor Skills; A conceptual approach and guide to formulating goals in child guid-

ance treatment, Am. J. Orthopsychiat, 66. Address: 159-34 86th St, Howard Beach, N.Y. 11414.

GOLDBERG, DR. HARVEY E(LLIS), b. Brooklyn, N.Y, May 16, 39; m. 62; c. 2. ANTHROPOLOGY. A.B, Columbia Col, 61; M.A, Harvard, 63, Ph.D. (anthrop), 67. ASST. PROF. ANTHROP, IOWA, 66- Anthrop. Asn; Ethnol. Soc; Mid. East Asn. N.Am. Middle East; social structure; culture and personality. Publ: FBD marriage and demography among Tripolitanian Jews in Israel, Southwest. J. Anthrop, summer 67; Patronymic groups in a Tripolitanian Jewish village, Jewish J. Sociol, 12/67. Address: Dept. of Sociology & Anthropology, University of Iowa, Iowa City, Iowa 52240.

GOLDBERG, PROF. HERMAN D(ORSAM), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

GOLDBERG, PROF. ICCHOK IGNACY, b. Warsaw, Poland, Mar. 6, 16; nat; m. 48; c. 1. EDUCATIONAL PSYCHOLOGY. M.Ph, Warsaw, 38; M.A, Columbia, 49, Ed.D, 52. Teacher, M. Krynski Gymnazium, Poland, 37-40; asst. instr, psychol. found. spec. ed, teachers col, Columbia, 51-53; dir. dept. rehab, Muscatatuck State Sch, Ind, 53-56; ed. consult, Nat. Asn. Retarded Children, 56-57; assoc. prof. ED. & res. assoc, TEACHERS COL, COLUMBIA, 57-62, PROF, 62- Mem, Coun. Except. Children; ed. adv. bd, United Cerebral Palsy Asn, 53-61. Polish Forces, 40-44; Polish Cross of Valor; Polish Mil. Medal. Fel. AAAS; Psychol. Asn; fel. Asn. Ment. Deficiency. (pres, 65-66). Curriculum development for mentally retarded children; self concept of exceptional children; learning of the mentally retarded. Publ: Guide for further development of special education programs at Teachers College, Columbia University; Mental health for the exceptional, In: Special education for the exceptional. Address: 501 W. 120th St, New York, N.Y. 10027.

GOLDBERG, DR. IRA, b. New York, N.Y, May 17, 29; m. 51; c. 3. PSYCHOLOGY. B.S.S, City Col. New York, 51, M.A, 52; Ph.D, Oklahoma, 60. Intern clin. psychol, Elgin State Hosp, Ill, 52-53; staff psychologist, Augusta State Hosp, Maine, 53-54; chief psychometrist, guid. center, Oklahoma, 54-55, counsr, 55-56, practicum supvr, 60-61; dir. dept. psychol, Enid State Sch, Okla, 56-57, consult, 60-61; trainee clin. psychol, Vet. Admin. Hosp, Oklahoma City, 57-59, res. psychologist, 59-61; clin. psychologist, Vet. Admin. Hosp, Brockton, 61-65; ASST. PROF. PSYCHIAT, SCH. MED, BOSTON, 65-, LECTR. PSYCHOL, 67- Consult, Treatment Center for Sex Offenders, Bridgewater, Mass, 62- U.S.A, 46-47. Psychol. Asn. Forced relocation and mental health; effects of therapeutic milieu. Publ: Psychotherapy with the institutionalized retarded, Proc. Okla. Acad. Sci; Effects of sensory deprivation on intellectual efficiency as a function of personality, Am. Psychologist. Address: 4 Bird Lane, Sharon, Mass. 02067.

GOLDBERG, DR. IRVING AARON, b. New York, N.Y, Nov. 26, 21; m. 67; c. 1. EXPERIMENTAL & INDUSTRIAL PSYCHOLOGY. B.A, Columbia, 56, M.S, 57, Ph.D.(psychol), 59. Lectr. psychol, Columbia, 57-58; human factors consult, Off. Naval Res, 58; sr. human factors analyst, Int. Tel. & Tel, 59-61; pres, Automated Teaching Systs, Inc, 61-62; dir. training systs. div, Basic Systs, Inc, 62-64, Job Corps opers, 64-65, proj. planning & design, 65-66, mgr. ed. systs. res, ED. DIV, XEROX CORP, 66, ed. prog. planning, 66-67, MGR. LONG RANGE PLANNING, 68- Consult. ed. systs, numerous indust. & govt. orgn. & agencies, 62- U.S.A.A.F, 42-45. Psychol. Asn; Soc. Training & Develop. Educational systems design and implementation; corporate management science and planning. Publ: Securities purchase and sales techniques & Reading and evaluating financial reports, Basic Systs, Inc, 63; co-auth, Strategies for using programmed instruction, Harvard Bus. Rev, 5-6/64. Address: 135 Central Park West, New York, N.Y. 10023.

GOLDBERG, IRVING D(AVID), b. Boston, Mass, July 28, 21; m. 67. BIOSTATISTICS. B.S, City Col. New York, 42; N.Y. Univ, 43-44; Rutgers, 44; Columbia, 47-48; M.P.H, Michigan, 54. Jr. statistician, New York City Dept. Health, 46-48; biostatistician, N.Y. State Dept. Health, 48-50, sr. biostatistician, 50-57; anal. statistician, BIOMET. BR, Nat. Inst. Neurol. Diseases & Blindness, 57-60, supvry. statistician, 60-66, CHIEF EVAL. STUDIES SECT, NAT. INST. MENT. HEALTH, 66- Sanit.C, 42-46, 2nd Lt. Fel. Pub. Health Asn; Statist. Asn. Public health, especially statistical and epidemiological research relating to mental health, cancer, child growth and development, and neurological and sensory organ disorders. Publ: Co-auth, Asphyxia neonatorum in relation to mental retardation, In: Neurological and psychological deficits of asphyxia neonatorum, Probability of developing cancer, Nat. Cancer Inst. J. & Cigarette smoking and prematurity: a prospective study, Am. J. Obstet. & Gynec. Address: Biometry Branch, National Institute of Mental Health, 5454 Wisconsin Ave, Chevy Chase, Md. 20015.

GOLDBERG, DR. IRWIN, b. Brooklyn, N.Y, June 2, 30. SOCIOLOGY. B.S, City Col. New York, 51; M.A, Michigan, 52, Ph.D.(sociol), 61; Yale, 56-57. Instr. sociol, Wisconsin, 58-61; asst. prof, Temple, 61-63; Hollins Col, 63-65; res. assoc, Center Urban Ed, 65-67; ASSOC. PROF. SOCIOL, GRINNELL COL, 67- Vis. summer lectr, Northeastern, 64; lectr, Brooklyn Col, 66-67. U.S.A, 53-55. Sociol. Asn; Soc. Study Social Probs; Law & Society Asn. Political and urban sociology; social psychology. Address: Dept. of Sociology, Grinnell College, Grinnell, Iowa 50112.

GOLDBERG, DR. ISADORE, b. Buffalo, N.Y, Aug. 12, 28; m. 54. EDUCATIONAL PSYCHOLOGY. B.A, Miami (Ohio), 55; M.A, Maryland, 57, Ph.D. (indust. & quant. psychol), 59. Sr. res. assoc. psychol, Am. Insts. Res, Wash, D.C, 58-60, assoc. res. scientist, 60-61, res. scientist, 61-64; asst. dir. res, ed. sci. div, U.S. Industs, Inc, 64-65, dir. ed. develop, 65-66; MGR. PSYCHOL, ED. & TRAINING DIV, COMPUT. APPLN. INC, 66- Res. assoc, Pittsburgh, 58-64; asst. prof, Maryland, 59- Consult, N.Y. State Ed. Dept, 65-66. U.S.A, 50-52. Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn; Asn. Ed. Data Systs. Systems approach in education and training; programmed instruction; multi-media systems; computers in education; surveys; testing; research design. Publ: Co-auth, Design for a study of American youth; The use of standardized ability tests in American secondary schools. Report to U.S. Off. Ed, 65; Utilization of an automated instructional system with job corpsmen, Report to Off. Econ. Opportunity, 6/66. Address: 840 Loxford Terrace, Silver Spring, Md. 20901.

GOLDBERG, DR. JOSEPH P(HILIP), b. Brooklyn, N.Y, May 1, 18; m. 43; c. 2. ECONOMICS. B.S.S, City Col. New York, 37, M.A, 38; Ph.D.(econ, hist), Columbia, 50. Economist, Nat. War Labor Bd, 42-46; labor specialist, Pub. Affairs Inst, 48-49; labor economist, Bur. Labor Statist, 49-51; economist, Wage Stabilization Bd. & Off. Econ. Stabilization, 51-53; asst. chief off. pub, BUR. LABOR STATIST, 53-54, SPEC. ASST. TO CMNR, 54- Yale Fund Merchant Seamen Studies grant; lectr, American Univ, 48-49; res. assoc, Harvard, 57; Ford Found. res. assoc, Univ. Michigan, 64-68. Econ. adv, Joint Cong. Cmt. Labor-Mgt. Rels, 49; govt. adv. & rep, maritime conf, Int. Labor Orgn, 56-61, U.S. Govt. del, maritime & prfnl. worker sessions, 63-67. AAAS; Econ. Asn; Indust. Rels. Res. Asn; Asn. Evolutionary Econ. Maritime labor relations; governmental labor policies; professional and salaried employees. Publ: The maritime story; Changing role of government in labor relations; Containerization as a force for change in the waterfront, Monthly Labor Rev, 1/68. Address: 707 Stonington Rd, Silver Spring, Md. 20902.

GOLDBERG, PROF. KALMAN, b. New Bedford, Mass, Jan. 10, 24; m. 48; c. 2. ECONOMICS. B.S, Wisconsin, 48; M.A, Pennsylvania, 49; fel, Cornell, 50-52, Ph.D, 54. PROF. ECON. & CHMN. DEPT, BRADLEY, 57- U.S.N, 42-46. Econ. Asn; Am. Studies Asn. Social accounting; regional economics. Publ: A system of gross income and product accounts for the state of Illinois, 1963, State of Ill. Press, 67; co-auth, A revision of theories of economic power, Quart. Rev. Econ. & Bus, spring 66. Address: Dept. of Economics, Bradley University, Peoria, Ill. 61606.

GOLDBERG, DR. LEON J(ACK), b. New York, N.Y, Apr. 2, 27; m. 52; c. 1. PSYCHOLOGY. B.S, City Col. New York, 49, M.S, 50; Ph.D.(psychol), Pittsburgh, 54. Acting chief psychol. sect, Vet. Admin. Hosp, Brecksville, Ohio, 55, chief clin. psychol. serv, Butler, Pa, 55-56; CHIEF PSYCHOLOGIST, CREEDMOOR STATE HOSP, 56-; ASST. PROF. PSYCHOL, ADELPHI, 56- U.S.N, 45-46. AAAS; Psychol. Asn. Clinical psychology. Address: Creedmoor State Hospital, Jamaica, N.Y. 11427.

GOLDBERG, DR. LEWIS R(OBERT), b. Chicago, Ill, Jan. 28, 32; m; c. 3. PSYCHOLOGY. A.B, Harvard, 53; M.A, Michigan, 54, Ph.D, 58. Acting asst. prof. PSYCHOL, Stanford, 58-60; asst. prof, OREGON, 60-66, ASSOC. PROF, 66- Summer vis. asst. prof, Michigan, 60; acting dir, Ore. Res. Inst, 61; Fulbright prof, Nijmegen, 66-67. Consult, Vet. Admin, 60-; Ore. Res. Inst, 61- Psychol Asn. Personality assessment. Publ: A model of item ambiguity in personality assessment, Ed. & Psychol. Measurement, 63; Diagnosticians vs. diagnostic signs, Psychol. Monogr, 65; co-auth, Comparative validity of different strategies of constructing personality inventory scales, Psychol. Bull, 67. Address: Oregon Research Institute, P.O. Box 3196, Eugene, Ore. 97403.

GOLDBERG, MELVIN A(RTHUR), b. New York, N.Y, Feb. 5, 23; m. 56; c. 2. ECONOMICS, SOCIAL STATISTICS. B.S, City Col. New York, 42; A.M, Columbia, 50. Dir. sales planning & res, Du Mont TV Network, 49-52; dep. dir. res. & eval, U.S. Info. Agency, 52-53; commun. res. consult, 53-56; dir. res, Westinghouse Broadcasting Co, 56-62; v.pres. res, Nat. Asn. Broadcasters, 62-64; res. & planning, JOHN BLAIR & CO, 64-67, V.PRES. BUS. DEVELOP, 67- Lectr, City Col. New York, 55- U.S.A.A.F, 42-46, Capt. Sociol. Asn; Statist. Asn; Mkt. Asn; Asn. Pub. Opinion Res. Communications. Address: John Blair & Co, 717 Fifth Ave, New York, N.Y. 10022.

GOLDBERG, PROF. MIRIAM L(EVIN), b. Baku, Russia, July 18, 16; nat; m. 36; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Columbia, 46, M.A, 47, Ph.D, 55. Teacher private schs, Conn, 37-43, admin. asst, 43-45; dir, nursery sch, N.Y, 45-48; res. assoc, citizenship ed. proj. TEACHERS COL, COLUMBIA, 52-54, Horace Mann-Lincoln Inst, 54-57, asst. prof. ed, 57-61, assoc. prof, 61-67, PROF. PSYCHOL. & ED, 67- Mem. Coun. Excep. Children, 66- AAAS; Psychol. Asn; Soc. Res. Child Develop. Academic achievement and talent development, especially in high ability children, those from disadvantaged backgrounds and underachievers; ability grouping; mathematics for gifted learners; problems of beginning reading. Publ: Co-auth, The effects of ability grouping, 66, Bright underachievers, 66, Teachers Col. Press & Education of the disadvantaged, Holt, 67. Address: Teachers College, Columbia University, 525 W. 120th St, New York, N.Y. 10027.

GOLDBERG, DR. PHILIP A(RNOLD), b. New York, N.Y, Jan. 9, 32; m. 60; c. 2. PSYCHOLOGY. B.S, Columbia, 57; Ph.D.(psychol), Buffalo, 62. Instr. PSYCHOL, CONN. COL, 61-63, asst. prof, 63-67, ASSOC. PROF, 67- Psychol. Asn; Soc. Psychol. Study Social Issues; Soc. Proj. Tech. & Personality Assessment. Social-psychological determinants of political behavior. Publ: Johnson or Goldwater: some personality and attitude correlates of political choice, Psychol. Reports, 65; A review of sentence completion methods in personality assessment, J. Proj. Tech, 65; Expectancy, choice, and the other person, J. Personality & Soc. Psychol, 65. Address: Dept. of Psychology, Connecticut College, New London, Conn. 06320.

GOLDBERG, DR. PHILIP LIONEL, b. New York, N.Y, May 22, 15; m. 43; c. 1. PSYCHOLOGY. B.S, Rutgers, 39, M.S, 47; Princeton, 47-48; Ph.D. (psychol), N.Y. Univ, 56. Teacher, pub. schs, N.J, 37-43; acting dir. intern training, U.S. Vet. Admin, Lyons, N.J, 46-48, training psychologist, regional off, New York, 48-51; chief psychologist NEUROPSYCHIAT. SERV, U.S. AIR FORCE HOSPS, Sampson AFB, N.Y, 51-54, psychologist, Mitchel AFB, N.Y, 54-57, Burderop Park, Eng, 58-60, chief psychologist, Wright Patterson AFB, Ohio, 60-67, PSYCHOLOGIST, 392d AEROSPACE MEDICAL GROUP, VANDENBERG AFB, 67- Psychol. consult, Greene County Child Guid. Clin, Ohio, 61-67. U.S.A, 43-46; U.S.A.F, Lt. Col. Psychol. Asn. Study of effects of dependency and other personality characteristics of airmen in a familiar crisis situation. Address: 392d Aerospace Medical Group, Vandenberg AFB, Calif. 93437.

GOLDBERG, DR. RAY A(LLAN), b. Fargo, N.Dak, Oct. 19, 26; m. 56; c. 3. ECONOMICS. A.B, Harvard, 48, M.B.A, 50; Ph.D, Minnesota, 52. Officer & dir, Moorhead Seed & Grain Co, Minn, 52-56; asst. prof. HARVARD, 55-57, 60-66, ASSOC. PROF. BUS. ADMIN, 66- Officer & dir, Experience, Inc, Minn, 63- Agr. Econ. Asn; Dairy Sci. Asn; Can. Agr. Econ. Asn. Agri-

cultural policy, economics and marketing. Publ: Co-auth, A concept of agribusiness and Brand strategy in U.S. food marketing; auth, Agribusiness coordination: a systems approach to the wheat, soybean and Florida orange industries. Address: Graduate School of Business Administration, Harvard University, Soldiers Field, Boston, Mass. 02163.

GOLDBERG, PROF. SAMUEL, b. New York, N.Y, Mar. 19, 11; m. 38; c. 2. CLINICAL PSYCHOLOGY. B.S.S. & M.S, City Col, New York, 30; Ph.D, Columbia, 48. Psychologist, ed. clin, City Col. New York, 30-35; bur. child guid, Bd. Ed, N.Y, 35-42, supvr, 47-48; PROF. ED. & DIR. ED. CLIN, BROOKLYN COL, 48- Lectr, Queens Col, 46-47. Consult, cmn. ed. implications, Armed Serv. Progs, 46. U.S.A, 42-46, Maj. Psychol. Asn; Orthopsychiat. Asn. Psychological tests and measurements. Publ: Army training of illiterates in the World War II; Child guidance in a kindergarten-6B school, Am. J. Orthopsychiat; Psychological procedures employed in the Army's special training units, J. Clin. Psychol. Address: 55 Parade Place, Brooklyn, N.Y. 11226.

GOLDBERG, DR. SHEPARD, b. New York, N.Y, Mar. 17, 29; m. 57; c. 2. CLINICAL & DEVELOPMENTAL PSYCHOLOGY. B.S, Queens Col.(N.Y), 50; M.A, North Carolina, 53; fel, Buffalo, 55-57, Ph.D, 59. Asst. clin. psychologist, PSYCHIAT. CLIN, INC, 57-58, sr. psychologist & acting chief psychologist, 58-59, CHIEF CLIN. PSYCHOLOGIST, 59- Instr, State Univ. N.Y. Buffalo, 57-60, clin. assoc, dept. psychol, 60-, asst, med. sch, 58-65, clin. instr, 65-; vis. Fulbright prof, Bar-Ilan Univ, Israel, 67-68. Psychol. Asn. Diagnosis and therapy of emotionally disturbed children and their parents; community mental health consultation; group therapy. Publ: Co-auth, Some demographic factors in conforming behavior, Sociol. & Soc. Res. Address: Psychiatric Clinic, Inc, Central Park Plaza, Buffalo, N.Y. 14214.

GOLDBERG, DR. SIMON A(BRAHAM), b. Poland, Dec. 4, 14; nat. Can; m. 50. ECONOMICS. B.A, McGill, 39, M.A, 40; M.A, Harvard, 42; Ph.D.(econ), 54. Nat. income statistician, DOM. BUR. STATIST, 45-50, dir. res. & develop. div, 50-54, ASST. DOM. STATISTICIAN, 54- Mem. conf. res. income & wealth, Nat. Bur. Econ. Res. R.C.A.F, 42-45. Am. Econ. Asn; fel. Statist. Asn; Can. Econ. Asn; Can. Polit. Sci. Asn; Int. Statist. Inst. National accounting and statistical integration; institutional savings and investments. Publ: The demand and utilization of official statistics, with special reference to the role of the national accounts, Bull. Int. Statist. Inst; Development of national accounts in Canada, Can. J. Econ. & Polit. Sci; co-auth, Income size distribution research and statistics, Income & Wealth Series. Address: 2087 Prince Charles Rd, Ottawa, Ont, Can.

GOLDBERG, DR. WILLIAM A, b. Detroit, Mich, Sept. 12, 02; m. 28; c. 1. SOCIAL SCIENCE. A.B, Michigan, 21, M.A, 22; Chicago, 31-35; Ph.D. (sociol), Northwestern, 40. Soc. serv. dir, Ohio Training Sch. Boys, 59-61; Ga. Training Sch Boys, 61-63; probtn. supvr, juvenile court, Ga, 64-67; spring vis. lectr. CORRECTIONS, SCH. POLICE ADMIN. & PUB. SAFETY, MICH. STATE, 67, ASSOC. PROF, 67- Sociol. Asn; Correctional Asn; Nat. Asn. Soc. Workers. Corrections in general; adult and juvenile probation; laws on probation; computerizing correctional information. Publ: Ed, Proc. Annual Conf. Juvenile Probs, 65-67; auth, Adult probation in the United States, (in prep). Address: 401-C Olds Hall, Michigan State University, East Lansing, Mich. 48823.

GOLDBERGER, PROF. ARTHUR STANLEY, b. Brooklyn, N.Y, Nov. 20, 30; m. 57. ECONOMICS. B.S, N.Y. Univ, 51; M.A, Michigan, 52, Soc. Sci. Res. Coun. fel, 54-55, Ph.D.(econ), 58; Fulbright fel, Netherlands Cent. Planning Bur, 55-56. Asst. & assoc, res. seminar quant. econ, Michigan, 51-55; acting asst. prof. econ. & res. assoc, proj. quant. res. econ. develop, Stanford, 56-59; assoc. prof. ECON, WISCONSIN, 59-63, PROF, 63- Fulbright fel, Economet. Inst, Netherlands Sch. Econ, 59-60; Ford Found. faculty res. fel, 63-64; vis. prof, Center Planning & Econ. Res, Athens, Greece, 64-65. Econ. Asn; fel. Economet. Soc; Statist. Asn. Theoretical and empirical econometrics; statistical inference in regression and time series models; international comparisons of consumer expenditure patterns; models of economic planning, development and fluctuation. Publ: Impact multipliers & dynamic properties, North-Holland, 59; Econometric theory, Wiley, 64; Topics in regression analysis, Macmillan, 68. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

GOLDBERGER, DR. L(EO), b. Yugoslavia, June 28, 30; m. 52. PSYCHOLOGY. B.A, McGill, 51; Ph.D, N.Y. Univ, 58; N.Y. Psychoanal. Inst, 62-67. Asst, McGill, 51-52; N.Y. Univ, 52-53; intern, Queen Mary Vet. Hosp, Montreal, Que, 51; clin. psychologist, Ment. Health Inst, Mt. Pleasant, Iowa, 53-54; res. clin. psychologist, human ecol. prog, med. col, Cornell, 55-56; from fel. to res. asst. prof. PSYCHOL, RES. CENTER MENT. HEALTH, N.Y. UNIV, 56-65, RES. ASSOC. PROF. & ASSOC. DIR, CENTER, 65- Nat. Inst. Ment. Health res. career develop. award, 63-68. Consult, Ment. Health Book Rev. Index. Psychol. Asn. Psychoanalytic ego psychology; perceptual isolation; culture and personality; stress and experimental psychopathology. Address: 240 E. 82nd St, New York, N.Y. 10028.

GOLDE, DR. PEGGY, b. St. Louis, Mo, Sept. 29, 30. SOCIAL ANTHROPOLOGY. A.B, Antioch Col, 53; Ford Found. Fel, Harvard, 54-55, Thomas Dana scholar, 55-66, Henry L. & Grace Doherty Charitable Found. fel, 59-60, Soc. Sci. Res. Coun. fel, 61, Ph.D.(soc. anthrop), 63. Lectr. soc. anthrop, Harvard & res. assoc. ment. health, sch. pub. health, 63-64, res. assoc. soc. anthrop, sch. med, & proj. dir. conjugal bereavement, lab. community psychiat, 64-65; fel, Center Adv. Study Behav. Sci, 65-66, RES. ASSOC. PSYCHIAT. & ANTHROP, STANFORD, 66- Milton Fund fel, 64; Am. Coun. Learned Socs. fel, 65-66. AAAS; Anthrop. Asn; Soc. Appl. Anthrop. Medical anthropology; social psychiatry. Publ: Co-auth, A sentence completion procedure for assessing attitudes towards old people, J. Geront, 7/59 & Conjugal bereavement: a strategic area of research in preventive psychiatry, Working Papers in Community Ment. Health, spring 64. Address: 573 Menlo Oaks Dr, Menlo Park, Calif. 94025.

GOLDEN, DR. BEVERLY, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

GOLDEN, DR. HILDA H(ERTZ), b. Berlin, Germany, Dec. 11, 19; U.S. citizen; m. 54; c. 2. SOCIOLOGY. A.B, Skidmore Col, 42; M.A, Duke, 44, Ph.D. (sociol), 50. Instr. SOCIOL, Ga. State Col. Women, 45-46; Randolph-Macon Woman's Col, 46-49; res. assoc, Bur. Appl. Soc. Res, Columbia, 49-55; part time lectr, Bowling Green State, 57-59; ASST. PROF, MASSACHUSETTS, AMHERST, 62- Sociol. Asn; Pop. Asn. Urban sociology; population characteristics and socio-economic change. Publ: Literacy and social change in underdeveloped countries, Rural Sociol, 20: 1-7; Literacy, In: Int. Encyclop. Soc. Sci, 68. Address: Dept. of Sociology, University of Massachusetts, Amherst, Mass. 01002.

GOLDEN, PROF. HOWARD ELDON, b. Harris, Mo, Nov. 13, 02; m. 28; c. 2. ECONOMICS. B.S, West Texas State, 31; Ph.D.(agr. econ & bus. admin), Missouri, 35. Prin, Kelton Independent Sch, Tex, 27-28, supt, 28-29; mgr. col. book store, West Texas State, 30-31; teaching fel. econ, Missouri, 31-34; dir. statist. res, res. & serv. sect, Fed. Farm Credit Admin, 34-38; asst. prof. agr. econ, Texas A&M, 39-40; prof. BUS. ADMIN. & acting head dept, Hardin-Simmons, 40-46; from assoc. prof. to PROF, TEX. TECH. COL, 46- Prof, West Texas State, 37-39; summer prof, North Texas State, 38-39. Wholesaling and distribution; factors affecting establishment of markets. Address: Dept. of Business Administration, Texas Technological College, Lubbock, Tex. 79409.

GOLDEN, PROF. JAMES L, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

GOLDENBERG, PROF. HERBERT, b. New York, N.Y, July 19, 26; m. 63; c. 3. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 49; M.A, California, Los Angeles, 52, Ph.D.(psychol), 53. Clin. psychol. trainee, Vet. Admin, 49-53; asst. prof. PSYCHOL, CALIF. STATE COL. LOS ANGELES, 53-61, assoc. prof, 61-66, PROF, 66- Vis. prof, California, Los Angeles, 66- Psychologist, Community Psychiat. Clin, Los Angeles, 53-54; Marion Davies Children's Clin, 53; private practice, 53- Consult, Richardson, Bellows, Henry & Co, 58-62; BFS Psychol. Assocs, 61-; sr. ment. health consult, Oper. Head Start, 66- U.S.N, 44-46. Psychol. Asn. Individual and group psychotherapy; personality theory; community mental health consultation; social factors in personality development. Address: Dept. of Psychology, California State College at Los Angeles, Los Angeles, Calif. 90032.

GOLDENBERG, DR. I(SIDORE) IRA, b. Bronx, N.Y, Dec. 14, 36; m. 63; c. 1. CLINICAL PSYCHOLOGY. B.A, City Col. New York, 58; M.A, Connecticut, 60, Ph.D.(soc. psychol), 63. Intern. clin. psychol, California, Los Angeles, 64; res. staff psychologist, YALE, 64-65, ASST. PROF. CLIN. PSYCHOL, 65- Consult, Community Progress Inc, 64-; Off. Econ. Opportunity, 65- Psychol. Asn. Community action, especially the problem of the relationship between the organization of a setting and the services it provides. Publ: Co-auth, Psychology in community settings, 66 & auth, Paper on reading in elementary schools, In: Research of the psycho-educational clinic, 68, Wiley. Address: Psycho-Educational Clinic, Yale University, 295 Crown St, New Haven, Conn. 06511.

GOLDENBERG, DR. SAMUEL, b. Burlington, Iowa, Feb. 26, 21; m. 45; c. 1. CLINICAL PSYCHOLOGY. Ph.D, Washington (Seattle), 53. Clin. psychologist, Vet. Admin, 54-58; CLIN. ASST. PROF. PSYCHIAT, WASHINGTON (SEATTLE), 64- Private practice, 58-; consult, Washington (Seattle), 58-; Vet. Admin, 65- AAAS; Psychol. Asn; Acad. Psychother. Cerebral damage in children; personality organization; psychotherapeutic processes. Publ: Using psychological tests to detect neurological difficulties in children, Proc. Int. Reading Asn; Exploratory study of some aspects of idiopathic language retardation in children, J. Speech-Hearing Disorders; Testing the brain injured child with normal I.Q, In; Psychopathology and education of the brain injured child. Address: 4224 83rd Ave, S.E, Mercer Island, Wash. 98040.

GOLDENSON, DR. ROBERT M(YAR), b. Albany, N.Y, Feb. 2, 08; m. 40; c. 2. PSYCHOLOGY. A.B, Princeton, 30; fel. & M.A, Pittsburgh, 32; Ph.D. (philos), Harvard, 40. Instr. philos, Black Mountain Col, 34-37; asst. prof. psychol, Hunter Col, 39-59; ED. DIR. BOOK-OF-THE-MONTH CLUB, 60- Consult, Nat. Broadcasting Co, 55-56; consult. & acting dir, Inst. Training & Res. Child Ment. Health, N.Y, 66- Mem. ment. health ed. cmn, Int. Ment. Health Cong, 51. Psychol. Asn; Effect of play on child development; parental contributions to reading improvement; adult self-education in the home. Publ: Co-auth, Understanding children's play; auth, All about the human mind (for young people), Random, 63; Encyclopedia of human behavior, Doubleday, 68. Address: Sunny Ridge Rd, Harrison, N.Y. 10528.

GOLDENTHAL, A. J, b. New York, N.Y, Sept. 29, 16; m. 46; c. 1. ECONOMICS. B.A, Rutgers, 37, M.A, 38. Economist, nat. income div, U.S. Dept. Commerce, 38-42; dir. mil. prod. sect, War Prod. Bd, 42-44; opers. analyst, U.S. Dept. Air Force, 44-45; dir. prod. policy sect, Civilian Prod. Admin, 45-46; premium payments div, Off. Housing Expeditor, 46-47; recovery progress br, Econ. Coop. Admin, 48-51; consult. economist, 52-61; asst. adminstr. planning & finance, Nat. Capital Transportation Agency, 61-62; prin. assoc, Wilbur Smith & Assocs, 62-63; TRANSPORTATION ECONOMIST, FORD MOTOR CO, 63- Econ. Asn; Soc. Traffic & Transportation; Transportation Res. Forum. Transportation system and economic development; international economics. Publ: Concentration and composition of income; Future of travel in the United States. Address: 19714 Cranbrook Dr, Detroit, Mich. 48221.

GOLDFARB, JAY, b. Philadelphia, Pa, Aug. 12, 29; m. 51. MATHEMATICAL STATISTICS. B.S, R.I. Sch. Design, 51; M.B.A, Pennsylvania, 58. Supt. finishing dept, H. & F. Binch, Inc, 54-56; asst. statist, Pennsylvania, 56-57; instr. statist. & indust. mgt, Wharton Sch, 57-59; OPERS. RES. ANALYST, AIR WARFARE RES. DEPT, NAVAL AIR DEVELOP. CENTER, 59- U.S. Naval Found. res. grant decision theory, 62. U.S.A, 51-53; U.S.N.R, 56-, Lt. Comdr. Statist. Asn; Inst. Math. Statist; Opers. Res. Soc. Operations research and analysis of naval tactical warfare; evaluation of proposed weapons systems; decision theory analysis of research decisions. Address: Air Warfare Research Dept, Naval Air Development Center, Johnsville, Pa. 18974.

GOLDFARB, PROF. NATHAN, b. New York, N.Y, Apr. 28, 13; m. 35; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. M.A, N.Y. Univ, 37, Ph.D.

(econ, bus. admin), 55. Chief employ. statist. sect. & supvr. tabulating & coding units, Fed. Security Agency, 36-49; liaison officer, U.S. Bur. Census, 49-51; dir. spec. study prepaid med. ins, Rockefeller Found. & Commonwealth Fund, 51-54; res. dir, Forbes Res, Inc, 54-56; from mem. faculty to PROF. MGT. & CHMN. DEPT. MGT, MKT. & BUS. STATIST, HOFSTRA COL, 56-, DIR. COMPUT. CENTER, 63- Mem. faculty, Baltimore, 46-51; Loyola Col.(Md), 48-51. Statist. consult, Henry Ittelson Center Child Res, 63- Statist. Asn; Asn. Comput. Mach; Asn. Ed. Data Systs. Market research; data processing systems; statistics for management; data processing in education. Publ: A data processing program, Bus. Ed. Forum, 11/64; co-auth, Evolution of changes of schizophrenic children in treatment, Am. J. Psychother, 4/65 & The speech of mothers of schizophrenic children, Am. J. Psychiat, 5/66. Address: 2914 139th St, Flushing, N.Y. 11354.

GOLDFARB, DR. WILLIAM, b. New York, N.Y, Feb. 16, 15; m. 38; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 33; M.S, City Col. New York, 34; Ph.D. (psychol), Columbia, 40; M.D, Cornell, 50. Psychologist, Bur. Child Guid, New York, 35-37; Foster Home Bur, 37-45, 46-52; U.S. Pub. Health Serv. & U.S. Dept. Navy, 45-46; DIR, HENRY ITTLESON CENTER CHILD RES, 52-AAAS; fel. Psychol. Asn; Psychiat. Asn.(Devereaux award, 44); Psychopath. Asn; fel. Soc. Proj. Tech. Child psychiatry and development. Address: Henry Ittleson Center for Child Research, 5050 Iselin Ave, Riverdale, N.Y. 10471.

GOLDFELD, DR. STEPHEN M(ICHAEL), b. Bronx, N.Y, Aug. 9, 40; m. 62; c. 2. ECONOMICS. A.B, Harvard Col, 60; Nat. Sci. Found. & Ford fels. & Ph.D.(econ), Mass. Inst. Tech, 63. Asst. prof. ECON, PRINCETON, 63-66, ASSOC. PROF, 66- Mem. sr. staff, Coun. Econ. Adv, 66-67. Econ. Asn; Economet. Soc. Nonlinear estimation in econometric models; behavior of financial institutions. Publ: Commercial bank behavior and economic activity, North-Holland, 66; co-auth, Maximization by quadratic hill-climbing, Econometrica, 7/66; Some tests for homoscedasticity, J. Am. Statist. Asn, 6/65. Address: Dept. of Economics, Princeton University, Princeton, N.J. 08540.

GOLDFIELD, EDWIN D(AVID), b. New York, N.Y, Oct. 26, 18. STATISTICS, ECONOMICS. B.S, City Col. New York, 39; A.M, Columbia, 40; American Univ, 40-46. Res. assoc, Dept. Invest, New York, 38-39; adv. statist, Court Spec. Sessions, 39; from statistician, pop. div. to ASST. DIR, U.S. BUR. CENSUS, 40- Mem. conf. res. income & wealth, Nat. Bur. Econ. Res. Meritorious serv. award, U.S. Dept. commerce, 54. Fel. Statist. Asn; Econ. Asn; Acad. Polit. & Soc. Sci; Pop. Asn. Publ: Wartime labor force in major industrial areas, Rev. Econ. Statist; co-auth, Monthly report on the labor force, Estadistica & How many older workers?, Am. Econ. Security. Address: 2809 Jasper St. S.E, Washington, D.C. 20020.

GOLDFINGER, NATHANIEL, b. New York, N.Y, Aug. 20, 16; m. 54; c. 2. ECONOMICS. B.S.S, City Col. New York, 38; New Sch. Soc. Res, 40-41; American Univ, 49-50. Res. & ed. dir, United Paperworkers Am, 44-50; assoc. res. dir. & secy. econ. policy cmt, Cong. Indust. Orgns, 50-55; economist, AM. FEDN. LABOR-CONG. INDUST. ORGNS, 56-58, asst. dir. res, 58-66, DIR. RES, 66- Econ. Asn; Indust. Rels. Res. Asn. Economic growth; productivity costs; prices and business cycles. Publ: Contrib, New trends in wage determination. Address: 306 Hamilton Ave, Silver Spring, Md. 20901.

GOLDFRANK, ESTHER S, b. New York, N.Y, May 5, 96; m. 22; 40; c. 1. ANTHROPOLOGY. B.A, Barnard Col, Columbia, 18. STAFF ANTHROPOLOGIST, CHINESE HIST. PROJ. FOR UNIV. WASHINGTON (SEATTLE), N.Y, 43- Fel. Anthrop. Asn; Ethnol. Soc.(secy-treas, 45-47, pres, 48, ed, 52-56). Social anthropology; folklore. Publ: Ed, Isleta paintings, Smithsonian Inst, 62; auth, The artist of Isleta paintings in Pueblo society, Smithsonian Press, 67; Socialization, personality and the structure of Pueblo society, Am. Anthrop. Address: 420 Riverside Dr, New York, N.Y. 10025.

GOLDFRIED, DR. MARVIN R(OBERT), b. Brooklyn, N.Y, Jan. 24, 36; m. 67. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 57; Ph.D.(psychol), Buffalo, 61. Asst. psychol, Buffalo, 57-58, instr, 60-61; trainee clin. psychol, Vet. Admin, 58-60; asst. prof. psychol, Rochester & clin. assoc. psychiat, sch. med. & dent, 61-64; asst. prof. PSYCHOL, STATE UNIV. N.Y. STONY BROOK, 64-66, ASSOC. PROF, 66-, DIR. PSYCHOL. SERV, 64- Nat. Inst. Ment. Health res. grant effective behav, 67- Res. consult, Alcoholism Treatment Center, Rochester, N.Y, 63-65. Psychol. Asn; Soc. Proj. Tech; Asn. Adv. Behav. Ther. Assessment; behavior modification; facilitation of effective behavior. Address: Dept. of Psychology, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

GOLDHAGEN, DR. ERICH, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

GOLDHAMER, DR. HERBERT, b. Owen Sound, Ont, Oct. 27, 07; nat; m. 59. SOCIOLOGY. B.A, Toronto, 29, M.A, 31; Rockefeller fel, London Sch. Econ, 33-34; Rockefeller fel, Chicago, 34-35, Ph.D.(sociol), 38. Instr. psychol, Toronto, 30-33; soc. sci, Chicago, 37-38, assoc. prof. sociol, 46-48; asst. & assoc. prof, Stanford, 38-46; SR. STAFF MEM, SOC. SCI. DIV, RAND CORP, 48-, consult, 46-48. Fel, Center Adv. Studies Behav. Sci, 55-56; Ford Found. grant, 56. Clin. psychologist, European Theatre, 44-45, chief res. br, 45-46, U.S.A, 42-46. Sociol. Asn; Sociol. Res. Asn. Political sociology; social stratification and mobility; epidemiology of mental diseases; Latin-American studies. Address: 947 Stonehill Lane, Los Angeles, Calif. 90049.

GOLDHAMMER, DR. KEITH, b. Portland, Ore, July 26, 17; m. 39; c. 3. SOCIOLOGY. A.B, Reed Col, 38; M.A, Oregon,43, Ph.D.(ed), 54. Supt, pub. schs, Ore, 43-52; asst, Oregon, 52-54, asst. prof. ed, 54, assoc. prof, 56-61, prof, 61-67; asst. prof, Stanford, 54-56; DEAN SCH. ED, OREGON STATE, 67- Consult, sch. dists, Ore, Calif. & Ariz. Sociol Asn. Decision process; sociology of administration; administrative behavior. Publ: Dissemination and implementation of educational research; The school board, Center Appl. Res. Ed, 64; co-auth, Issues and problems in educational administration, Center Adv. Study Ed. Admin, 67. Address: School of Education, Oregon State University, Corvallis, Ore. 97331.

GOLDIAMOND, DR. ISRAEL, Exp. Psychol, see 11th ed, Phys & Biol. Vols. & Suppl. IV.

GOLDIN, DR. H(YMAN) H(OWARD), b. New York, N.Y, Aug. 28, 13; m. 39; c. 4. ECONOMICS. A.B, Harvard, 36, Littauer fel, 44-46, M.A, 50, Ph.D, 51. Chief economist, Fed. Commun. Cmn, 48-66; exec. secy, Carnegie Cmn. Ed. TV, 66-67, consult. ed. TV, Carnegie Corp. of New York, 67-68; ASSOC. PROF. COMMUN, BOSTON, 68- Consult, antitrust div, U.S. Dept. Justice & Internal Revenue Serv, 67-; Nat. Citizens Cmt. Pub. TV. Econ. Asn. Economics of broadcasting and general telecommunications. Publ: Employee interest in public utility merger and abandonment uses & Economic and regulatory problems in the broadcast industry, Land Econ; co-auth, Public television—a program for action, Carnegie Corp, New York. Address: Boston University School of Public Communication, 640 Commonwealth Ave, Boston, Mass. 02215.

GOLDIN, DR. PAUL C, b. Brooklyn, N.Y, Oct. 18, 35; m. 58; c. 3. CLINICAL PSYCHOLOGY. B.A, Columbia, 57; M.A, North Carolina, 61, Ph.D.(psychol), 62. Fel. clin. psychol, Clark Univ. & Worcester State Hosp, 62-64; ASST. PROF. psychol, Massachusetts, 64-65; child psychol, Minnesota, 65-67; CLIN. PSYCHOL, MED. CENTER, COLORADO, 67- Psychol. Asn. Children's reports of antecedent and consequents of emotional behavior in parent and peer figures and their relation to age, sex, social class and behavior. Publ: Co-auth, The empathic process in psychotherapy, J. Nervous & Ment. Disease, 64; auth, Experimental investigation of selective memory and the concept of repression and defense, J. Abnorm. & Soc. Psychol, 64. Address: Dept. of Psychology, University of Colorado Medical Center, Denver, Colo. 80220.

GOLDKIND, DR. VICTOR, b. Brooklyn, N.Y, Mar. 21, 26; m. 50; c. 3. CULTURAL ANTHROPOLOGY. B.S, George Washington, 49; Yale, 49-52; M.A, Mich. State, 59, Ph.D.(sociol, anthrop), 63. Instr. sociol. & anthrop, Mich. State, 60-61; asst. prof. ANTHROP, SAN DIEGO STATE COL, 61-65, assoc. prof, 65-68, PROF, 68- Wenner-Gren Found. Anthrop. Res. study grant, 64; Peace Corps lectr, 65-66. U.S.A, 44-46. Fel. Anthrop. Asn; Ethnol. Soc. Social anthropology; rural sociology; Latin America; peasantry; social stratification. Publ: Sociocultural contrasts in rural and urban settlement types in Costa Rica, Rural Sociol, 12/61; Social stratification in the peasant community: Redfield's Chan Kom reinterpreted, Am. Anthrop, 8/65; Class conflict and cacique in Chan Kom, Southwest. J. Anthrop, winter 66. Address: Dept. of Anthropology, San Diego State College, San Diego, Calif. 92115.

GOLDMAN, DR. A(LAN) S(TEWART), b. Boston, Mass, Apr. 2, 25; m. 46; c. 2. ECONOMICS, STATISTICS. B.S, New Hampshire, 49; Iowa State, 49-52, M.S, 50, Ph.D.(econ, agr. econ. & statist), 53. Statistician, gen. eng. lab, Gen. Elec. Co, N.Y, 54-56; asst. to v.pres. mfg. & eng, Norden-Ketay Corp, Conn, 56-58; self-employed, 58-60; MEM. PRFNL. STAFF, TECH. MIL. PLANNING OPERS, GEN. ELEC. CO, 60- Instr. eng. exten. course, California, Los Angeles; tech. adv, U.S. Navy; chmn. subcmt. cost methodology & standardization, Electronic Indust. Asn. U.S.A, 43-45. Statist. Asn; Inst. Mgt. Sci. Economic forecasting; product testing; management organization; communication and control; complex systems analysis in terms of reliability, maintainability and supply; general problems of resource allocation for management decision making. Publ: Co-auth, Maintainability; a major element for system effectiveness, Wiley, 64. Address: Technical Military Planning Operations, General Electric Co, Santa Barbara, Calif. 93105.

GOLDMAN, DR. ALEXANDER, b. Brooklyn, N.Y, Apr. 3, 10; m. 44; c. 2. PSYCHOLOGY. B.S, Long Island, 31; M.A, Columbia, 47; Ph.D.(psychol), N.Y. Univ, 59. Psychologist, Vet. Admin, 48-49; instr. psychol, Long Island, 49-50; psychologist, U.S. Naval Training Device Center, 51-53, supvry. psychologist, 53-55, head communications psychol. div, 55-58; human factors specialist, Repub. Aviation Corp, 58-63; consult, 63-65; LIFE SCIENTIST, GRUMAN AIRCRAFT ENG. CORP, 66- Vis. psychologist, City Hosp, New York City, 50-54; private practice, 62-; chief clin. psychologist, dept. phys. med. & rehab, Meadowbrook Hosp, 64-65; clin. psychologist, 64-66; Human eng. consult, Goldman-Hilton Res. Center, 54-; consult. psychologist, Reading Improv. Center, 55-58; consult, 65-66. U.S.A, 42-46, Lt. AAAS; Psychol. Asn; Human Factors Soc; Inst. Aeronaut. & Astronaut. Engineering psychology; human engineering; isolation; survival in space; narcotics addiction. Publ: Sensory interaction and response capacity; Method for measuring intelligence in the blind. Address: 12 Tulip Dr, Great Neck, N.Y. 11021.

GOLDMAN, DR. ALFRED E(MMANUEL), b. Brooklyn, N.Y, Dec. 19, 25; m. 52; c. 2. PSYCHOLOGY. B.S, City Col. New York, 49, M.A, 50; Ph.D. (psychol), Clark, 55. Instr. psychol, Northeastern, 54, asst. prof, 54-55; res. assoc. pub. health practice, sch. pub. health, Harvard, 55-56; asst. dir. psychol. servs, Norristown State Hosp, 56-60; SR. V.PRES, NAT. ANALYSTS, INC, 60- U.S.A.A.F, 44-46. Psychol. Asn. Social science and consumer research, concept formation. Publ: Symbolic representation in schizophrenia, J. Personality; Classification of sign phenomena, Psychiatry; Group depth interview, J. Mkt. Address: 324 Marvin Rd, Elkins Park, Pa. 19117.

GOLDMAN, DR. BERNARD, Psychol, see 10th ed, Soc. & Behav. Vols.

GOLDMAN, DR. BERT A(RTHUR), b. New York, N.Y, Apr. 4, 29; m. 56. EDUCATIONAL PSYCHOLOGY. A.B, Maryland, 51; M.Ed, North Carolina, 56; Dupont fel, univ. fel. & Ed.D.(ed. psychol, guid. & counseling), Virginia, 60. Teacher, high sch, N.C, 53-54; pub. schs, Md, 54-57; instr. ed. psychol, Virginia, 58-60, asst. prof, 60-61; Tufts, 61-62; psychol, Mary Washington Col, Virginia, 62-64; ASSOC. PROF. ED, counseling center & State Univ. N.Y. Albany, 64-65; NORTH CAROLINA, GREENSBORO, 65- Res. grant, Learning Inst. N.C, 66-67; Univ. North Carolina Res. Coun, 67-68. Summers, vis. prof, Tulane, 63, North Carolina, Chapel Hill, 64. Consult, Va. Coun. Hwy. Res, Virginia, 58-60; Cmn. Game & Inland Fisheries, Va, 60-61; ed. res. consult, N.C. State Dept. Pub. Instr. & several N.C. Sch. Systs, 65- Participant, Nat. Conf. Ed. Disadvantaged, Wash, D.C, 66. U.S.A, 51-53. Psychol. Asn; Personnel & Guid. Asn; Psychomet. Soc; Nat. Soc. Study Ed. Development of evaluation techniques; test construction; attitude measurement. Publ: Hypnosis: its present legal status in the United States, Am. Psychologist; Effect of emergency housing facilities upon adjustment and grade-point average, J. Col. Student Personnel, 9/66; The war is on: graded

vs. nongraded, Peabody J. Ed, 7/67. Address: School of Education, University of North Carolina at Greensboro, Greensboro, N.C. 27412.

GOLDMAN, DR. FRANK PERRY, b. New York, N.Y, May 25, 12; m. 55. EDUCATIONAL & RURAL SOCIOLOGY. B.A, Tulane, 48, M.A, 49; Tulane study grant, Inst. Int. Ed. travel grant & D.Sc, São Paulo, 61. Asst. sociol, sch. soc. sci, São Paulo, 52-59; CHMN. ED. SOCIOL. & HEAD DEPT. SOCIOL, COL. RIO CLARO, CAMPINAS, 59, mem. univ. admin. bd, 67. Chmn. soc. res, Cath. Univ. São Paulo, 57-59, dir. sch. ed, 60-61, mem. faculty, 59-67, vis. prof, sch. agron, summer 66; res. assoc. for Peace Corps study, Univ. Texas, 62-63; summers, consult, Peace Corps proj, Univ. Florida, 64, lectr, Menninger Found, 65 & vis. prof, Univ. Miami, 65. Chief soc. res. staff, Inst. Human Econ, 53-54 & 57-58; res. specialist, Brazilian Indian Serv, 53-56. Indust. res. consult, 52-54 & 67-; admin. counsr. & res. dir, Regional Power & Light Co, 67. Fel. Am. Sociol. Asn; Am. Anthrop. Asn; Latin Am. Studies Asn; Brazilian Sociol. Soc. Community studies; acculturation, especially North Americans in Brazil; minorities. Publ: Co-auth, Itanhaem: community study, Univ. São Paulo, 58; auth, Post Civil War migrations to Brazil, Rev. de Historia, 60; Big metrópole, America do Sul, J. Inter-Am. Studies, 65. Address: Faculdade de Filosofia Rio Claro, Universdade de Campinas, São Paulo, Brazil.

GOLDMAN, DR. HYMEN CHARLES, b. Chicago, Ill, Apr. 22, 20; m. 44; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Cent. YMCA Col, 42; B.S, Roosevelt, 47; M.A, Southern California, 48, Ed.D, 62. Dir. & sch. psychologist reading clin, City Bd. Ed, Los Angeles, 48-51, teacher, 51-57; ed. res. consult. ment. retardation, State Dept. Ed, Calif, 57-59; sch. psychologist guid. & counseling, Bd. Ed, Redondo Beach, 59-60; instr. psychol, Los Angeles Harbor Col, 60-67, counsr, 61-67; ASSOC. PROF. PSYCHOL. & COORDINATOR COUNSELING CENTER, CALIF. STATE COL, DOMINGUEZ HILLS, 67- Consult, Upward Bound Prog, Marymount Col, summer, 67. Sig.C, 42-46, Sgt. Psychol. Asn. Attitudinal, perceptual and cognitional correlates of learning disabilities; group and college counseling. Publ: Clinic workshop in remedial reading, Los Angeles Sch. J; Attitudinal, perceptual and cognitional rigidity in boys with reading disabilities. Address: 27601 Alvesta Place, San Pedro, Calif. 90732.

GOLDMAN, PROF. IRVING, b. New York, N.Y, Sept. 2, 11; m. 34. ANTHROPOLOGY. B.S, Brooklyn Col, 33; Ph.D.(anthrop), Columbia, 41. Mem. staff res, Soc. Sci. Res. Coun, 34-35; field res, Columbia, 35-36, 39-40, asst. anthrop, 36-37, lectr, 37, asst. to Prof. Franz Boas, 37-39; tutor, Brooklyn Col, 40-42; info. analyst, Coordinator Inter-Am. Affairs, 42-43; chief Latin-Am. Br, U.S. Dept. State, 45-47; PROF. ANTHROP, SARAH LAWRENCE COL, 47- Bollingen Found. fel, 60-62. U.S.A, 42-45. Fel. Anthrop. Asn; Ethnol. Soc.(treas, 37); fel. Polynesian Soc. Tropical forest of South American Indians; Polynesian native life; cultural evolution. Publ: The Cubeo: Indians of the Northwest Amazon; co-auth, First men. Address: Dept. of Anthropology, Sarah Lawrence College, Bronxville, N.Y. 10708.

GOLDMAN, DR. JACQUELIN ROBERTA, b. Ocala, Fla, Apr. 26, 34. PSYCHOLOGY. B.A, Florida, 56; M.A, Illinois, 59, Ph.D.(psychol), 62. ASST. PROF. PSYCHOL. & CLIN. PSYCHOL, FLORIDA, 61- Psychol. Asn. Clinical and developmental psychology. Publ: Effects of infant shock and handling procedures upon later behavior in the white rat, J. Genetic Psychol, 104:301-310; co-auth, Medical illness and patients attitudes; somatopsychic relationships, J. Nervous & Ment. Diseases, 141:678-683; Aging: the criterion problem in diagnosis of brain dysfunction, J. Geront, 22:14-16. Address: Dept. of Clinical Psychology, University of Florida, Gainesville, Fla. 32601.

GOLDMAN, DR. JAY, Indust. Eng, see 11th ed. Phys. & Biol. Vols.

GOLDMAN, PROF. LEO, b. Kingston, N.Y, June 13, 20; m. 50; c. 2. COUNSELING PSYCHOLOGY. B.S, City Col. New York, 40; M.A, Columbia, 47, Ph.D.(counseling psychol), 50. Asst. prof. ed, Buffalo, 50-52, assoc. prof. ed. & psychol, 52-58; ED, Brooklyn Col, 58-64; PROF, CITY UNIV. NEW YORK, 64- Vis. prof, Rutgers, 59; Buffalo, 60; Syracuse, 61; Wisconsin, 64; Pennsylvania, 65; Fulbright-Hays lectr, Amsterdam, 65-66. Dipl, Am. Bd. Exam. Prfnl. Psychol, mem. bd. trustees, 66- U.S.A.A.F, 42-46, Sgt. Fel. Psychol. Asn; Asn. Measurement & Eval. Guid.(pres, 67-68). Counselor education; educational and vocational counseling; psychological testing. Publ: Using tests in counseling, Appleton; Counseling: content and process, Personnel & Guid. J; Preferences of authoritarian and equalitarian personalities for client-centered and eclectic counseling, J. Counseling Psychol. Address: Division of Teacher Education, City University of New York, 33 W. 42nd St, New York, N.Y. 10036.

GOLDMAN, DR. MARSHALL I(RWIN), b. Elgin, Ill, July 26, 30; m. 53; c. 4. ECONOMICS. B.S, Pennsylvania, 52; M.A, Harvard, 56, Ph.D.(econ), 61. Instr. ECON, WELLESLEY COL, 58-61, asst. prof, 61-65, ASSOC. PROF, 65-; ASSOC. SOVIET ECON, RUSSIAN RES. CENTER, HARVARD, 56- Vis. asst. prof, Brandeis, 61; Brookings Inst. res. prof, 64-65. Consult, Raytheon Corp, 61-62; Arthur D. Little Co, 66-; Charles River Assocs, 67- U.S.A, 53-55. Econ. Asn; N.Y. Acad. Sci. Marketing and distribution in the Soviet Union; Soviet foreign aid and economic reform; pollution. Publ: Soviet marketing: distribution in a controlled economy, Macmillan, 63; Soviet foreign aid, Praeger, 67; Controlling pollution: the economics of a cleaner America, Prentice-Hall, 67. Address: 17 Midland Rd, Wellesley, Mass. 02181.

GOLDMAN, MORRIS R, b. New York, N.Y, Aug. 18, 21; m. 44; c. 3. ECONOMICS, STATISTICS. B.S, City Col. New York, 41; American Univ, 46-47. Econ. statistician, U.S. Bur. Census, 46-49; economist, div. interindust. econ, U.S. Bur. Labor Statist, 49-54; chief commodity & materials data br, indust. div. U.S. Bur. Census, 54-59; chief sales & purchase staff, U.S. DEPT. OF COMMERCE, 59-61, chief nat. econ. div, 61-63, asst. dir, OFF. BUS. ECON, 63-65, ASSOC. DIR, 65- Mem. conf. res. income & wealth, Nat. Bur. Econ. Res. U.S.A.A.F, 42-45, Sgt. Econ. Asn; Statist. Asn. Interindustry relations; technique for economic analysis; input output tables and their application to economic problems. Publ: An annual index of production; Manufacturing sector of the 1947 interindustry relations study, In: Studies in income and wealth; co-auth, The interindustry structure of the U.S, Surv. Current Bus, 64. Address: 9626 Evergreen St, Silver Spring, Md. 20901.

GOLDMAN, DR. NATHAN, b. Brooklyn, N.Y, Dec. 9, 07; m. 40. SOCIOLOGY. A.B, Clark, 29, fel. & M.A, 30; Ph.D.(sociol), Chicago, 50. Psychologist, Boston Psychopathic Hosp, 32-35; Worcester State Hosp, 35-37; Lyman Sch. for Boys, Mass, 37-42; res. sociologist, West. Psychiat. Inst, Pittsburgh, Pa, 48-50; assoc. prof. SOCIOL, Syracuse, 50-68; PROF. & CHMN. DEPT, ILL. INST. TECH, 68- Med.Serv.C, 42-46, Comdr. Sociol. Asn; Soc. Study Social Probs; Nat. Coun. Crime & Delinquency. Juvenile delinquency; personality development; social aspects of deviant conduct. Publ: Sociopsychological study of school vandalism; The differential selection of juvenile offenders for court appearance, Nat. Coun. Crime & Delinquency, 63; Social breakdown, Ann. Am. Acad. Polit. & Soc. Sci, 67. Address: Dept. of Sociology, Illinois Institute of Technology, Chicago, Ill. 60616.

GOLDMAN, PROF. RALPH M(ORRIS), b. Brooklyn, N.Y, May 14, 20; m. 53; c. 2. POLITICAL SCIENCE. B.A, N.Y. Univ, 47; A.M, Chicago, 48, Soc. Sci. Res. Coun. fel, 49-50, Ph.D.(polit. sci), 51. Consult, res. div, Democratic Nat. Cmt, 52; staff assoc, Am. Polit. Sci. Asn, 52-53; res. assoc, Brookings Inst, 53-56; asst. prof. polit. sci. & dir. Falk Grad. Fel. Prog, Mich. State, 56-58, assoc. prof, 58-61; vis. prof, Chicago, 61-62; PROF. POLIT. SCI, SAN FRANCISCO STATE COL, 62-, ASSOC. DEAN RES, 65- U.S.A, 42-46, Capt. Polit. Sci. Asn; Sociol. Asn; Int. Polit. Sci. Asn. Political parties; legislative process; communications; political sociology; public administration; international relations. Publ: Co-auth, Politics of national party conventions; co-ed, Presidential nominating politics in 1952; auth, Democratic party in American politics, Macmillan, 66. Address: Dept. of Political Science, San Francisco State College, San Francisco, Calif. 94132.

GOLDMAN, DR. RONALD, b. Brooklyn, N.Y, Sept. 22, 33; m. 54; c. 3. SPEECH PATHOLOGY, PSYCHOLOGY. B.A, Birmingham-South. Col, 55; M.S, Pittsburgh, 57, Ph.D, 60. Field worker & consult, Pittsburgh, 55-57; asst. prof. speech path. & audiol, Tulane, 60-64; RES. SPEECH PATHOLOGIST, BILL WILKERSON HEARING & SPEECH CENTER, 64-, DIR, RES. & SPEECH PATH, 66-; ASSOC. PROF. SPEECH PATH, SCH. MED, VANDERBILT, 66-, asst. prof, 64-66. Asst. prof, George Peabody Col, 64-66, assoc. prof, 66-; summer distinguished vis. prof, Rutgers, 66. Consult, Huntsville Rehab. Center, Ala; Rutgers. Private practice, 58-60. Speech & Hearing Asn; Coun. Except. Children. Effects of drugs on stuttering behavior; testing of articulatory defective children; development of new therapeutic procedures for articulatory defectives; cultural influences on stuttering behavior. Publ: Co-auth, Comparison of goals that parents of stutterers and parents of non-stutterers set for their children, J. Speech & Hearing Disorders, 11/64; auth, Effects of psychotherapeutic drugs on stuttering, Acta de Therapia Vocis et Loquelae, 1/65; Effects of cultural influences on the sex ratio in the incidence of stuttering, Am. Anthropologist, 2/67. Address: Dept. of Speech Pathology, Vanderbilt University School of Medicine, Nashville, Tenn. 37203.

GOLDMAN, DR. SHELDON, b. New York, N.Y, Sept. 18, 39; m. 63; c. 1. POLITICAL SCIENCE. B.A, N.Y. Univ, 61; Woodrow Wilson fel, Harvard, 61-62, M.A, 64, Wilson fel, 64-65, Ph.D.(polit. sci), 65. ASST. PROF. GOVT, MASSACHUSETTS, 65-, Faculty Res. Coun. grant, 66-67. Nat. Sci. Found. summer inst. grant, 66; Soc. Sci. Res. Coun. res. grant, 67. Polit. Sci. Asn. Judicial behavior and processes, especially lower federal courts; empirical study of courts, legislatures, electorates and political parties. Publ: Co-auth, The federal judicial system, Holt, 68; auth, Voting behavior on the United States Courts of Appeals, Am. Polit. Sci. Rev, 6/66; Judicial appointments to the United States Courts of Appeals, Wis. Law Rev, winter 67. Address: Dept. of Government, Machmer Hall, University of Massachusetts, Amherst, Mass. 01002.

GOLDMAN, DR. THOMAS A(DLER), b. Ft. Worth, Tex, Dec. 16, 18; m. 51; c. 3. STATISTICS. A.B, Harvard, 39; M.A, George Washington, 52; Ph.D. (econ), Chicago, 62. Logistics analyst, Rand Corp, Calif, 55-58; dir. econom et. br, C-E-I-R, Inc, 58-61; opers. res, United Res. Serv, Wash, 61-62; econ. analyst, Center Naval Anal, 62-65; sr. prog. mgr. ed. & tech. serv. div, Philco-Ford Corp, 65-68; CONSULT, 68- U.S.A.A.F, 43-45. Econom et. Soc; Statist. Asn; Inst. Math. Statist; Regional Sci. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Econometrics; probability and stochastic processes. Publ: Cost-effectiveness analysis, Praeger, 67. Address: 7008 Millwood Rd, Bethesda, Md. 20034.

GOLDNER, PROF. B(ERNARD) B, b. Philadelphia, Pa, Aug. 1, 19; m. 48; c. 2. INDUSTRIAL MANAGEMENT. Scholar. & B.S, Pennsylvania, 40, fel. & M.A, 43, fel. & Ph.D.(econ), 49. Supvr. training, Vet. Admin, 46-48; PROF. INDUST, LA SALLE COL, 48-, dir. Sch. Creative Thinking, 50. Chmn, Pa. Small Bus. Adv. Coun, 67-69. U.S.A, 43-46, Capt. Arbit. Asn; Soc. Adv. Mkt. Creative thinking. Publ: Strategy of creative thinking, Prentice-Hall, 62; What's this business of brainstorming and creative thinking all about, Sales Meetings; Are you flunking in creative thinking, Sales Mgt. Address: 4026 MacNiff Dr, Lafayette Hill, Pa. 19444.

GOLDNER, PROF. RALPH H, b. Breslau, Germany, July 11, 15; nat; m. 53; c. 3. PSYCHOLOGY. Ph.D.(ed. psychol), Chicago, 52. Prof. ed, State Univ. N.Y. Teachers Col.(Fredonia), 50-58; assoc. prof, N.Y. UNIV, 58-62, PROF. ED. PSYCHOL, 62- U.S.A, 43-45. Psychol. Asn. Learning; problem solving; personality. Publ: Individual differences in whole-part approach and flexibility-rigidity in problem solving, Psychol. Monogr. Address: Dept. of Educational Psychology, New York University School of Education, Washington Square, New York, N.Y. 10003.

GOLDNER, DR. WILLIAM, b. San Francisco, Calif, Aug. 22, 14; m. 39; c. 2. ECONOMICS, STATISTICS. A.B, Stanford, 37; Ph.D, California, 55. Res. economist, inst. indust. rels, California, 49-54; asst. prof. bus. admin, Bowling Green State, 54-57; lectr. & head exten, CALIFORNIA, BERKELEY, 58-62, LECTR. URBAN ECON, 62- Consult, locational & regional models, Bay Area Transportation Study, 65- U.S.A, 44-46, Capt. Econ. Asn; Re-

gional Sci. Asn. Urban and regional development planning, including development of simulation models of industrial, commercial and residential locations, and of forecasting models of regional population, migration and economic activity. Publ: Spatial and locational aspects of metropolitan labor markets, Am. Econ. Rev; co-auth, Forces affecting the interindustry wage structure, Quart. J. Econ. Address: School of Business Administration, University of California, Berkeley, Calif. 94720.

GOLDSCHMID, DR. MARCEL L, b. Switz, Aug. 31, 36; m. 62. PSYCHOLOGY. B.A, Zurich, 59; Ph.D.(psychol), California, Berkeley, 65. ASST. PROF. PSYCHOL, California, Los Angeles, 65-67; McGILL, 67- Consult, Montreal Children's Hosp, 67- Psychol. Asn. Cognitive development; Piaget, and personality. Publ: Different types of conservation and non-conservation and their relation to age, sex, IQ, MA and vocabulary, 12/67 & The relation of conservation to emotional and environmental aspects of development, 6/68, Child Develop; Prediction of college majors by personality test, J. Counseling Psychol, 14: 302-308. Address: Dept. of Psychology, McGill University, Montreal, Que, Can.

GOLDSCHMIDT, PROF. MAURE L(EONARD), b. Portland, Ore, Aug. 26, 09; m. 46; c. 2. POLITICAL SCIENCE. A.B, Reed Col, 30; Rhodes scholar, Oxford, 30-33, B.A, 33; fel, Chicago, 33-35, Soc. Sci. Res. Coun. fel, 37-38, Ph.D, 41. Instr. polit. sci, Reed Col, 35-37; prfnl. exam, U.S. Civil Serv. Cmn, 38; instr. soc. sci, Chicago, 39-41, asst. prof, 44-46; instr. govt, City Col. New York, 41-42; asst. to state price exec, Off. Price Admin, 42-44, economist, anti-trust div, 44; assoc. prof. POLIT. SCI, REED COL, 46-49, PROF, 49- Ford fel, 52-53; vis. prof, California, Los Angeles, 59-60; Washington (Seattle), summer, 65; prof. & head dept, Univ. Col, Nairobi, Kenya & Univ. East Africa & field staff, Rockefeller Found, 66-68. Dir, Am. Civil Liberties Union Ore. Polit. Sci. Asn.(v.pres, 61). Political theory; political parties; public opinion. Publ: Ed, Natim-building in Kenya: an African documentary, African Pub. House, Nairobi, 68; auth, Democratic theory and contemporary political science, West. Polit. Sci. Asn, 9/66; Rousseau on intermediate associations, Nomos, spring 68. Address: Dept. of Political Science, Reed College, Portland, Ore. 97202.

GOLDSCHMIDT, DR. WALTER R(OCHS), b. San Antonio, Tex, Feb. 24, 13; m. 37; c. 2. ANTHROPOLOGY. B.A, Texas, 33, M.A, 35; Ph.D.(anthrop), California, 42. Field dir, Texas, 34; soc. sci. analyst, bur. agr. econ, U.S. Dept. Agr, 41-46, participant community studies rural California, 40-45; asst. prof. ANTHROP. & SOCIOL, CALIFORNIA, LOS ANGELES, 46-50; assoc. prof, 50-56, PROF, 56-, CHMN. DEPT. ANTHROP, 64- Lectr, Stanford, 45; economist, U.S. Dept. Interior, Alaska, 45; vis. asst. prof, California, 49; Harvard, 50; dir. ways of mankind radio proj, Nat. Asn. Ed. Broadcasters, 51-53; Fulbright res. grant, Uganda, 53-54; Soc. Sci. Res. Coun. grant, 53-54; Wenner Gren Found. grants, 53-54, 58; Ford Found. behav. sci. grant-in-aid, 57-58; dir. culture & ecol. in E. Africa, Nat. Sci. Found-Nat. Inst. Ment. Health grants, 60-; fel. Center Adv. Study Behav. Sci. & Nat. Sci. Found. sr. fel, 64-65. Ed, Am. Anthropologist, 56-59. AAAS; fel. Anthrop. Asn. (ed, News Bull, 48); Ethnol. Soc; Soc. Appl. Anthrop; fel African Studies Asn; Int. African Inst. Theory of culture and society; cultural evolution; social organization; economics of primitive peoples; relation of culture to ecology; African ethnology; rural community in America; California Indians; American culture; Texas archaeology. Publ: Man's way, a preface to the study of human society; Comparative functionalism: an essay in anthropological theory, 66 & Sebei law, 67, Univ. California. Address: Dept. of Anthropology & Sociology, University of California, Los Angeles, Calif. 90024.

GOLDSEN, JOSEPH M, b. Passaic, N.J, Feb. 20, 16; m. 51; c. 1. SOCIAL SCIENCES. B.B.A, City Col. New York, 37; American Univ, 42-43. Res. dir, Norman Bel Geddes & Co, Inc, New York, 38-41; war commun. res. div, Library Cong, 41-43; v.pres, Nejelski & Co, Inc, Mgt. Counsels, New York, 44-48; soc. scientist, RAND CORP, 48-63, HEAD SOC. SCI. DEPT, 63- Consult, Cmn. Freedom Press, 44; Coordinators Off. Inter-Am. Affairs, 44; Encyclop. Britannica Films, Inc, 46-47; Dept. State, 63- Mem, U.S. Air Force Sci. Adv. Bd, 65- Fel. AAAS; Polit. Sci. Asn; Sociol. Asn; Asn. Pub. Opinion Res; Inst. Aeronaut. & Astronaut; Soc. Int. Law. Political science; international relations; communications. Publ: International political implications of science and technology. Address: 14722 Oracle Place, Pacific Palisades, Calif. 90272.

GOLDSEN, DR. ROSE K(OHN), b. Newark, N.J, May 19,18. SOCIOLOGY. B.A, N.Y. Univ, 43; M.A, Yale, 44, Sterling fel, 44-45, Ph.D.(sociol), 52. Res. assoc, inst. human rels, Yale, 44-45; bur. appl. soc. res, Columbia, 47-49; ASSOC. PROF. SOCIOL, CORNELL, 49- Soc. sci. adv, Ford Found, Latin Am, 67- Sociol. Asn; Asn. Pub. Opinion Res. Public opinion; methodology in social sciences. Publ: Puerto Rican journey; What college students think. Address: Dept. of Sociology & Anthropology, Cornell University, Ithaca, N.Y. 14850.

GOLDSMITH, DR. C. THOMAS, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

GOLDSMITH, DR. JEWETT, Psychiat, see 11th ed, Phys. & Biol. Vols.

GOLDSMITH, DR. LEONARD J, Neuropsychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GOLDSMITH, DR. RAYMOND W(ILLIAM), b. Brussels, Belgium, Dec. 23, 04. ECONOMICS. Ph.D, Berlin, 27; London Sch. Econ, 33. Statistician, German Cent. Statist. Off, 27-29; res. asst, Inst. Financial Studies, 29-30; res. fel, Brookings Inst, 30-31; instr, Carleton Col, 34; economist, Securities & Exchange Cmn, 34-38; chief res. & statist. sub-div, 38-42; mem. staff, War Prod. Bd, 42-47, dir. div. planning, 44-47; Savings & Capital Mkt. Study, 48-51; MEM. STAFF, NAT. BUR. ECON. RES, 52-; PROF. ECON, YALE, 60- Prof, N.Y. Univ, 58-59; v.pres, Orgn. Econ. Coop. & Develop. Center, 63-65. Adv, Reparations Conf, 45; Austrian Treaty Cmn, 47. Mem. conf. res. in income & wealth, Int. Asn. Res. Income & Wealth. Econ. Asn; Econometr. Soc. Banking; finance; national accounting; international economics. Publ: Study of saving in the United States. Address: 111 Park St, New Haven, Conn. 06516.

GOLDSMITH, DR. W(ALTER) MACK, b. Milwaukee, Wis, Oct. 4, 34; m. 60; c. 3. PSYCHOLOGY. A.B, Ripon Col, 57; Wisconsin, 57-60; univ. grant, Cornell, 64, Ph.D.(exp. psychol), 66. ASST. PROF. PSYCHOL, St. Olaf Col, 64-66; STANISLAUS STATE COL, 66- Psychol. Asn. Visual perception; cross-cultural experimental psychology. Address: Dept. of Psychology, Stanislaus State College, Turlock, Calif. 95380.

GOLDSTEIN, DR. ALLAN C(ARL), b. Boston, Mass, May 5, 30. PHYSIOLOGICAL PSYCHOLOGY. A.B, Boston, 51; M.A, Tufts, 54; Ph.D.(psychol), Yale, 57. Asst, Tufts, 51-53; Yale, 53-55; asst. prof. PSYCHOL, Cornell, 57-63; ASSOC. PROF, YESHIVA, 63- AAAS; Psychol. Asn; Animal Behavior Soc. Drive mechanisms in amphibians; physiology of learning in amphibians; chemical factors in behavior. Address: Dept. of Psychology, Yeshiva University, 55 Fifth Ave, New York, N.Y. 10003.

GOLDSTEIN, PROF. ALVIN G(EORGE), b. Brooklyn, N.Y, Nov. 18, 26; m. 49; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Brooklyn Col, 50, M.A, 51, Ph.D.(psychol), 55. Asst. psychol, Clark, 50-54; res. psychologist, U.S. Army Med. Res. Lab, Ky, 54-56; res. assoc. PSYCHOL, MISSOURI, 56-58, 59-61, asst. prof, 58-59, assoc. prof, 61-65, PROF, 65- U.S.A.A.F, 46-47. Psychonomic Soc. Visual perception; perceptual development; psychophysics of form perception; electronic analysis of electroencephalogram. Publ: Judgments of visual velocity as a function of length of observation time & Familiarity and apparent complexity of random shapes, J. Exp. Psychol; Spatial orientation as a factor in eliciting associative responses to random shapes, Perceptual & Motor Skills. Address: Dept. of Psychology, McAlester Hall, University of Missouri, Columbia, Mo. 65201.

GOLDSTEIN, DR. ARNOLD P(AUL), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

GOLDSTEIN, DR. FRED J(EROME), b. New York, N.Y, Jan. 27, 23; m. 50; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 47; Ph.D.(psychol), California, 52. Instr. Hebrew lang. & grammar, Col. of Jewish Studies, 51-53; hist. of psychol, Southern California, 54-55; clin. psychologist & dir. training, Pinel Found. Hosp, Seattle, Wash, 55-57; chief, dept. clin. psychol, Los Angeles Psychiat. Serv, 57-61; dir. training & clin. psychol, dept. psychiat, Permanente Founds. Hosp, 61-62; CLINICAL PSYCHOLOGIST, 65- Fel, Winter Vet. Admin. Hosp. & Menninger Sch. Psychiat, 53-54; instr. & clin. assoc, Southern California, 58-65; psychol. dir. Peterson-Gudel Family Res. Found, 60-63; supv. consult, dept. psychiat, Cedars-Sinai Hosp, Los Angeles, 67- Asst. ed, 'J. Proj. Tech,' 59-66. Mem. psychol. exam. cmt. Bd. Med. Exam, Calif, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. Projective techniques and fantasy; language; problems of diagnosis and evaluation of psychotherapy; sexual perversions and homosexuality. Address: 353 S. Maple Dr, Beverly Hills, Calif. 90212.

GOLDSTEIN, HAROLD I(SRAEL), b. New York, N.Y, Sept. 30, 14; m. 38; c. 2. ECONOMICS. M.A, Chicago, 36. Analyst, Cent. Statist. Bd, Wash, D.C, 38; economist, wage & hour div, U.S. DEPT. LABOR, 38-42, from economist to ASST. CMNR. MANPOWER & EMPLOY. STATIST, BUR. LABOR STATIST, 42- Lectr, N.Y. Univ, 50; American Univ, 50-56. Consult, Orgn. Econ. Co-op. & Develop, 58-60; Int. Labor Off, Govt. of Israel. AAAS; Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn; Personnel & Guid. Asn. Address: 7012 Wilson Lane, Bethesda, Md. 20034.

GOLDSTEIN, DR. HAROLD M, b. Boston, Mass, May 12, 30; m. 53; c. 4. MEDICAL ECONOMICS, PUBLIC FINANCE. B.A, Northeastern, 53; M.A, Boston Col, 57; fel, Clark, 57-59, Ph.D.(pub. finance), 61. ASST. PROF. econ. & pub. finance, E.Carolina Col, 59-61; ECON. & FINANCE, NORTHEASTERN, 61- Off. manpower, U.S. Dept. Labor grant. U.S.A, 53-55, 67- Econ. Asn; Pub. Health Asn. Publ: The case for an international reserve system, Bus. Topics, 4/65; Secular trends in federal fiscal aid, South. J. Bus, 7/66; Regional barriers in the utilization of federal aid, Quart. Rev. Econ, summer 67. Address: Dept. of Economics, Northeastern University, Boston, Mass. 02115.

GOLDSTEIN, DR. HYMAN, b. New York, N.Y, Jan. 14, 09; m. 39; c. 3. PSYCHOLOGY. A.B, Columbia, 30, A.M, 31, Ph.D.(psychol), 34. Psychologist, State Correction Dept, N.Y, 36-39, statistician, bur. cancer control, State Health Dept, 39-43, sr. statistician, 44-50; chief hosp. reports & records unit, current reports sect, biomet. br, Nat. Inst. Ment. Health, 50-52, sect, 52-57, Nat. Inst. Neurol. Diseases & Blindness, 57-67, ASSOC. DIR. DIV. RES, CHILDREN'S BUR, U.S. DEPT. HEALTH, ED. & WELFARE, 67- Consult, Am. Found. for Blind, N.Y, 67- Statist. Asn; Pub. Health Asn. Etiological studies of neurological and sensory organ diseases; blindness statistics; maternal and child health research. Publ: A historical study of disposition of first admissions to a state mental hospital, Pub. Health Monogr; Cigarette smoking and prematurity: a prospective study, Am. J. Obstet. & Gynec; co-auth, Perinatal factors associated with strabismus in Negro children, Am. J. Pub. Health. Address: Division of Research, Children's Bureau, U.S. Dept. of Health, Education & Welfare, Washington, D.C. 20201.

GOLDSTEIN, DR. IRIS BALSHAN, b. Newark, N.J, Mar. 31, 36; m. 62; c. 2. PSYCHOLOGY. B.A, California, Los Angeles, 57, M.A, 60, Ph.D.(physiol. psychol), 62. Res. psychologist, psychosom. & psychiat. inst, Michael Reese Hosp, Chicago, Ill, 61-64; instr. psychol, CALIFORNIA, LOS ANGELES, 64-66, NAT. INSTS. MENT. HEALTH FEL. CLIN. PSYCHOL, 67- Psychol. Asn; Soc. Psychophysiol. Res. Muscle tension and autonomic activity; psychiatric disorders; psychosomatic medicine; anxiety; personality theory. Publ: Physiological responses in anxious women patients, Arch. Gen. Psychiat, 64; The relationship of muscle tension and autonomic activity to psychiatric disorders, Psychosom. Med, 65; Electromyography, In: Handbook of psychophysiology, Holt, (in press). Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

GOLDSTEIN, DR. IRVING M(ORTON), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

GOLDSTEIN, DR. IRWIN LOU, b. New York, N.Y, Oct. 4, 37; m. 60; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 59; M.A, Maryland, 62, Nat. Insts. Health fel, 62-63, Ph.D.(psychol), 64. Res. assoc. ENG. PSYCHOL, aviation psychol. lab, Ohio State, 63-64, ASST. PROF, 63-66; MARYLAND, 66- Consult, NASA summer workshop, 67. AAAS; Psychol. Asn; Psychonomic Soc. Engineering psychology. Publ: The effects of stimulus complexity and restrictive response classes on observer responses, J. Exp. Psychol, 65; co-auth, Complex monitoring and its relation to the classical problems of vigilance, J. Orgn. Behav. & Human Performance, 66 & Feedback in a complex multiman-machine system, J. Appl. Psychol, 67. Address: Dept. of Psychology, University of Maryland, College Park, Md. 20740.

GOLDSTEIN, DR. JEANNE ANNE, b. Kansas City, Mo, Oct. 4, 38; m. 63. CLINICAL PSYCHOLOGY. B.S, Butler, 60, M.S, Purdue, 64, Ph.D.(clin. psychol), 68. Staff psychologist, LaRue Corter Hosp, med. sch, Indiana, 67; PSYCHOLOGIST, Dammasch State Hosp, 67; COMMUNITY CHILD GUID. CLIN, 68- Developmental and physiological psychology. Publ: Co-auth, Stimulus correlates of the discrimination behavior of children, Psychonomic Sci, 67. Address: 9955 S.W. Bonnie Brae Dr, Beaverton, Ore. 97005.

GOLDSTEIN, DR. JOEL W(ILLIAM), b. Chicago, Ill, June 5, 39; m. 63; c. 1. PSYCHOLOGY, SOCIOLOGY. B.A, Grinnell Col, 61; M.A, Kansas, 63, Nat. Inst. Ment. Health fel, 63-66, Ph.D.(soc. psychol), 66. ASST. PROF. PSYCHOL. & INDUST. ADMIN, Carnegie-Mellon Univ, 66- AAAS; Psychol. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues. Social motivation; interpersonal attraction; person perception; nonverbal communication; assessment of psychological effects of sensitivity training; level of aspiration; organization structure; cross-cultural assessment of achievement motivation; student drug usage. Publ: Co-auth, Achievement motivation in Navaho and White students, Am. Anthropologist, 6/66; Need and value shifts in college training groups, J. Appl. Behav. Sci, 3/67; auth, Insecurity as a variable in interpersonal attraction; Midwest. Psychol. Asn, 5/67. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

GOLDSTEIN, PROF. JOSEPH, Law, see 5th ed, Dir. of Am. Scholars, Vol. IV, Philos, Relig. & Law.

GOLDSTEIN, DR. KENNETH M(ICHAEL), b. New York, N.Y, Oct. 11, 40; m. 64. PSYCHOLOGY. B.A, City Col. New York, 61; Woodrow Wilson fel, Princeton, 61-62, Nat. Inst. Ment. Health fels, 62-64, M.A, 63, Ph.D.(psychol), 64. Clin. instr. psychiat, State Univ. N.Y. Downstate Med. Center, 65-67; ASST. PROF. PSYCHOL, RICHMOND COL, CITY UNIV. NEW YORK, 67-; RES. PSYCHOLOGIST, WAKOFF RES. CENTER, STATEN ISLAND MENT. HEALTH SOC, 64- Psychol. Asn. Social interaction and mental health; parental educational attitudes and child school performance; structure and content in parental communications to children; cognitive functioning; motivating properties of stimulation; parapsychology. Publ: Stimulus reinforcement during sensory deprivation, 65 & co-auth, The relationship between sociometric and multidimensional scaling measures, 66, Perceptual & Motor Skills; Some aspects of a theory of community mental health, Community Ment. Health J, 2/68. Address: Wakoff Research Center, 657 Castleton Ave, Staten Island, N.Y. 10301.

GOLDSTEIN, DR. LEO S, b. New York, N.Y, Nov. 25, 24; m. 51; c. 1. PSYCHOLOGY. B.A, Queens Col.(N.Y), 49; M.A, Columbia, 50, Ph.D, 57. Res. assoc, inst. psychol. res, Columbia, 50-56; res. fel. med, med. col, Cornell, 57-63; res. dir, Center Programmed Instr, 61-63; SR. RES. SCIENTIST, INST. DEVELOP. STUDIES, 63-; RES. PROF, SCH. ED, N.Y. UNIV, 67- Assoc, Medata Found, 61- U.S.A.A.F, 43-46, Sgt. AAAS; Psychol. Asn; N.Y. Acad. Sci. Education of disadvantaged children; methods of educational research; programmed instruction. Publ: Co-auth, Descriptive statistics: a programed textbook, 2 vols, Wiley, 65; auth, Evaluation of an enriched curriculum for disadvantaged youngsters, Inst. Develop. Studies, 65; co-auth, Automated diagnostic screening for comprehensive medicine, J. Occup. Med, 10/67. Address: 144-45 26th Ave, Flushing, N.Y. 11354.

GOLDSTEIN, DR. LEON G(EORGE), b. Monroeville, N.J, Oct. 14, 15; m. 50; c. 2. PSYCHOLOGY. B.A, Pennsylvania, 46, M.A, 49; Ph.D, George Washington, 56. Res. psychologist, personnel res. br, personnel res. & procedures div, Adj. Gen's. Off. U.S. Dept. Army, 48-61; chief, res. grants br, div. accident prevention, U.S. Pub. Health Serv, 61-67; SPEC. ASST. TO DIR, BUR. SURFACE TRANSPORTATION SAFETY, NAT. TRANSPORTATION SAFETY BD, U.S. DEPT. TRANSPORTATION, 67- Mem, road user characteristics cmt. & hwy. safety cmt, Hwy. Res. Bd. AAAS; Human Factors Soc; Psychol. Asn. Accident prevention research; research methodology; personnel research. Publ: Human variables in traffic accidents,a digest of research and selected bibliography, Nat. Acad. Sci-Nat. Res. Coun, Hwy. Res. Bd, 62; Research on human variables in safe motor vehicle operation; a correlational summary of predictor variables and criterion measures; Factor study of drivers' attitudes. Address: 8209 Ellingson Dr, Chevy Chase, Md. 20015.

GOLDSTEIN, DR. MARCUS S(OLOMON), b. Philadelphia, Pa, Aug. 22, 06; m. 45; c. 1. ANTHROPOLOGY. A.B, George Washington, 30, A.M, 32; Ph.D. (anthrop), Columbia, 37. Res. assoc, div. child res, col. dent, N.Y. Univ, 33-39; anthrop, Texas, 39-41, Inst. Latin-Am. Studies fel, 41-43; res. analyst, Off. Strategic Servs, 44-46; from pub. health adminstr. to pub. health analyst, U.S. Pub. Health Serv, 46-66; SOC. SCI. RES. ANALYST, MEDICARE PROG, OFF. RES. & STATIST, SOC. SECURITY ADMIN, 66- Fel. AAAS; Anthrop. Asn; Asn. Phys. Anthrop; fel. Pub. Health Asn; fel. Soc. Appl. Anthrop. Public health statistics; child development; applied anthropology. Publ: Changes in dimensions and form of the face and head with age, Am. J. Phys. Anthrop; Demographic and bodily changes in descendants of Mexican immigrants; Longevity and health status of whites and non-whites in the United States, J. Nat. Med. Asn. Address: 1112 Osage St, Silver Spring, Md. 20903.

GOLDSTEIN, DR. MARK E, b. Jamaica, N.Y, May 7, 31. PSYCHOLOGY. B.A, Adelphi, 53; M.A, N.Y. Univ, 54; M.S. & Ph.D.(clin. psychol), Yeshiva, 58. Intern, N.Y. Univ-Bellevue Med. Center-Univ. Hosp, 57-58; psychologist, Theodor Reik Clin, 58-60; City Hosp. Elmhurst-Trouble Shooting Clin, 59-62; group psychotherapist, Long Island Consult. Center, 59-62; supv. psychologist, Cumberland Hosp, 60-61; private practice psychol, 61- Consult, Supreme Court State of N.Y. Conciliation Bur, 67- Psychol. Asn; Acad. Psychother; Soc. Group Psychother. & Psychodrama; Group Psychother. Asn. Individual, group and marathon psychotherapy; marriage counseling; hypnosis. Publ: Subliminal perception with optical illusions. Address: 170-40 Henley Rd, Jamaica, N.Y. 11432.

GOLDSTEIN, DR. MELVIN LEON, b. New York, N.Y, Oct. 3, 27; m. 63. EXPERIMENTAL PSYCHOLOGY, NEUROPSYCHOLOGY. B.A, N.Y. Univ, 49; M.A, Washington State, 51; Ph.D.(psychol), Illinois, 60. Instr. psychol, Illinois, 60, res. assoc, 60-61; fel. & lectr. physiol. psychol, Syracuse, 62-63; fel. psychol. & zool, Wisconsin, 63-65; ASST. PROF. PSYCHOL, INDIANA, KOKOMO, 65- U.S.A, 46. Psychol. Asn. Neurological correlates of learning; sensory physiology. Publ: Acquired drive strength as a joint function of shock intensity and number of acquisition trials, J. Exp. Psychol, 60; Some methodological considerations in physiological research on aversive behavior, J. Genetic Psychol, 66; Physiological theories of emotion: a critical historical review from the standpoint of behavior theory, Psychol. Bull, 68. Address: Dept. of Psychology, Indiana University, Kokomo Campus, Kokomo, Ind. 46901.

GOLDSTEIN, PROF. MICHAEL J, b. Brooklyn, N.Y, June 28, 30; m. 53; c. 1. CLINICAL PSYCHOLOGY. B.A, Iowa, 52; M.S, Washington State, 53; Ph.D. (psychol), Washington (Seattle), 57. Trainee, Vet. Admin, Wash, 53-57; instr. PSYCHOL, CALIFORNIA, LOS ANGELES, 57, asst. prof, 58-65, ASSOC. PROF, 65- Faculty fel, Summer Inst. Geront, Conn, 58; Fulbright res. scholar, psychol lab, Copenhagen, 60-61. Summer, staff psychologist, Kings County Hosp, Brooklyn, N.Y, 57. Consult, Vet. Admin, 58-; Coop. Coun. Ed, Calif, 59-60. Psychol. Asn. Personality perception; psychotherapy; gerontology. Publ: Test of the response probability theory of perceptual defense, J. Exp. Psychol; Relationship between coping and avoiding behavior and fear arousing propaganda & co-auth, Fantasy responses to subliminal stimuli, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

GOLDSTEIN, DR. MYMON, b. Brooklyn, N.Y, Nov. 1, 28; m. 49; c. 3. PSYCHOLOGY. A.B, Brooklyn Col, 49; Walker fel, Princeton, 49-51, Ph.D, 52. Res. psychologist, personnel & training res. center, U.S. Dept. Air Force, 51-57; asst. prof. PSYCHOL, Indiana, 57-60; Princeton, 60-66; ASSOC. PROF, BROOKLYN CENTER, LONG ISLAND, 66- AAAS; Psychol. Asn. Learning and thinking; quantitative methods; applied psychology. Publ: Co-auth, Contingent discrimination in humans & Absolute and differential cuing of successive reversals, Perceptual & Motor Skills, 65; co-auth, An uncomplicated but difficult two-part learning set task, Psychonomic Sci, 66. Address: Dept. of Psychology, Brooklyn Center, Long Island University, Brooklyn, N.Y. 11201.

GOLDSTEIN, PROF. SIDNEY, b. New London, Conn, Aug. 4, 27; m. 53; c. 3. SOCIOLOGY. B.A, Connecticut, 49, M.A, 51; Harrison fel, Pennsylvania, 51-53, Ph.D.(sociol), 53. Instr. SOCIOL, Pennsylvania, 53-55; asst. prof, BROWN, 55-57, assoc. prof, 57-60, PROF, 60-, CHMN. DEPT. SOCIOL. & ANTHROP, 63- Res. dir, Norristown Hist. & Sociol. Surv, 53-55; Guggenheim fel, 61-62; Fulbright res. scholar, Denmark, 61-62; Hadassah fel, 65-66. Consult, Inst. Neurol. Diseases & Blindness, 60-; R.I. Coun. Community Serv, 63-; pop. div, UN, 65-66, mem. ad hoc cmt. experts demog. aspects of urbanization, 67. Sociol. Asn; Pop. Asn. Am; Statist. Asn; Geront. Soc; Israeli Asn. Jewish Demog. & Statist; Int. Union Sci. Study Pop. Demography; social research. Publ: Consumption patterns of the aged; co-auth, The first two years: problems of small business growth and survival & Jewish-Americans: three generations in a Jewish community, Prentice-Hall, 68. Address: Dept. of Sociology, Brown University, Providence, R.I. 02912.

GOLDSTEIN, DR. SIDNEY, b. New York, N.Y, Apr. 13, 19; m. 41; c. 2. ECONOMICS, STATISTICS. B.A, Brooklyn Col, 39; LL.B, Georgetown, 50; M.A, American Univ, 54, Ph.D, 57. Economist & chief wool textiles, U.S. Bur. Census, 46-50; labor economist, Bur. Labor Statist, 50, bus. economist & chief nondurable goods sect, interindust. econ. div, 51-53, statistician & chief qual. control & indust. classification, manpower div, 53-58; chief econ. impact res. br, U.S. Bur. Pub. Rds, 58-63, econ. adv. to dir. planning, 63-64, chief econ. div, 64-66; assoc. dir. res, Econ. Develop. Admin, U.S. Dept. Commerce, 66-67; DEP. DIR. POLICY PLANNING, FED. HWY. ADMIN, U.S. DEPT. TRANSPORTATION, 67- Lectr, George Washington, 56-; Maryland, 67- Chmn, cmt. econ. consequences, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 58-, mem. dept. econ, finance & admin, 60-, cmt. urban transportation law, 64-; cmt. econ. resources, Fed. Coun. Sci. Tech, 58- Econ. Asn; Bar Asn. Publ: Highways and recreation, Recreation; Economic evidence in condemnation cases, Georgetown Univ. Law J; co-auth, Highways and economic and social changes, Govt. Printing Off, 65. Address: 311 Irwin St, Silver Spring, Md. 20901.

GOLDSTEIN, DR. STANLEY, b. New York, N.Y, Dec. 7, 22; m. 47; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 47; M.A, Michigan, 49, Ph.D, 52. Clin. psychologist, Vet. Admin. Ment. Hyg. Clin, St. Louis, Mo, 51-58; VET. ADMIN. HOSP, Salt Lake City, Utah, 58-60, CHIEF COUNSELING PSYCHOL, PALO ALTO, 60- Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. U.S.A.A.F, 42-45. Psychol. Asn. Modification of behavior; rehabilitation of mentally ill. Address: Psychology Service, Veterans Administration Hospital, Palo Alto, Calif. 94302.

GOLDSTEIN, DR. STEVEN G(EORGE), b. New York, N.Y. Jan. 30, 39; m. 63. PSYCHOLOGY. B.A, Fairleigh Dickinson, 62; M.S, Purdue, 64, Ph.D.(psychol), 67. Fel. psychol, MED. SCH, OREGON, 67-68, ASST. PROF. MED. PSYCHOL. & CHIEF SECT. NEUROPSYCHOL, 68- Mem. coun. rep, Nat. Coun. Grad. Ed. Psychol, 67- Psychol. Asn; Ed. Res. Asn. Behavioral correlates of neurological disorders; multivariate grouping procedures; experimental design; clinical training of psychologists. Publ: The effects of doubling on involvement in group psychotherapy as measured . . . , Psychotherapy, 67; Paradigm to maximize efficiency in clinical predictions, Proc. 75th Annual Am. Psychol. Asn. Convention, 67; Programs for the

determination of the coefficient and standard error of the tetrachoric correlation, Ed. & Psychol. Measurement, 67. Address: Dept. of Medical Psychology, University of Oregon Medical School, Portland, Ore. 97201.

GOLDSTON, DR. STEPHEN E(UGENE), b. New York, N.Y, Apr. 19, 31; m. 64; c. 1. PUBLIC HEALTH, PSYCHOLOGY. B.A, N.Y. Univ, 52; M.S.P.H, Columbia, 53, M.A, 57, Ed.D.(ed, psychol), 58. Lectr. ment. health, Columbia, 56-57, instr, 57-58; asst. to dir, Westchester County Community Ment. Health Bd, 58-60; chief ment. health ed. unit, New York Community Ment. Health Bd, 60-62; staff asst. to assoc. dir, NAT. INST. MENT. HEALTH, 62-63, training specialist, pilot & spec. grants sect, 63-65, acting chief, 65-66, training specialist, exp. & spec. training br, 66-67, CHIEF PUB. HEALTH SECT, 67-, SPEC. ASST. TO DIR, 67- Instr, Paterson State Col, 60; Fairleigh Dickinson, 61-62. Consult, div. psychiat, Montefiore Hosp, New York, 60. U.S.A, 53-55; U.S.P.H.S, 57-, Sr. Asst. Health Serv. Officer. Pub. Health Asn; Psychol. Asn. Prevention of mental illness and promotion of mental health; mental health education and consultation; training in mental health. Publ: Ed, Concepts of community psychiatry: a framework for training, U.S. Dept. Health, Ed. & Welfare, Pub. Health Serv. Pub. 1319, Govt. Printing Off, 65; auth, Training in community psychiatry: a survey report of the medical school departments of psychiatry, Am. J. Psychiat, 120: 789-792, 64; Mental health education in a community mental health center, Am. J. Pub. Health, 4/68. Address: National Institute of Mental Health, Chevy Chase, Md. 20202.

GOLDSTONE, DR. MARTIN HAROLD, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

GOLDSTONE, PROF. SANFORD, b. New York, N.Y, July 17, 26; m. 50; c. 1. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 47; Ph.D, Duke, 53. Lectr. psychol. & assoc. psychiat, sch. med, Duke, 53-55; asst. prof. psychol, col. med, Baylor, 55-58, assoc. prof, 58-66, prof, 66-67; head psychol. div, Houston State Psychiat. Inst, 58-66, div. crime & delinquency, 66-67; PROF. PSYCHOL. & HEAD DIV, MED. COL, CORNELL, 67-; HEAD PSYCHOL. DEPT, PAYNE WHITNEY CLIN, WESTCHESTER DIV, NEW YORK HOSP, 67- Clin. prof, Univ. Houston, 59-67. Consult, Vet. Admin. Hosps, Houston & Temple, Tex, 59-67. Dir. ment. health serv, Harris County Probation Dept, Houston & mem. bd. dirs. & exec. cmt, Houston Speech & Hearing Center, 63-67. U.S.A.A.F, 45. AAAS; Psychol. Asn; Psychopath. Asn. Human temporal behavior; time judgment and psychopathology. Publ: The human clock, Ann. N.Y. Acad. Sci, 67. Address: Cornell University Medical College, 21 Bloomingdale Rd, White Plains, N.Y. 10605.

GOLDWIN, DR. ROBERT A(LLEN), b. New York, N.Y, Apr. 16, 22; m. 44; c. 4. POLITICAL SCIENCE. B.A, St. John's Col.(Md), 50; univ. fel, Chicago, 51, Hillman fel, 53, M.A, 54, Ph.D.(polit. sci), 63. Dir. res, Am. Found. Polit. Ed, 51-59; lectr. POLIT. SCI. & dir. Pub. Affairs Conf. Center, Chicago, 60-66; ASSOC. PROF. & DIR. PUB. AFFAIRS CONF. CENTER, KENYON COL, 66- Guggenheim Found. fel, 66-67; series ed, Rand McNally Public Affairs Series, 63- U.S.A, 42-46, Lt. Polit. Sci. Asn; Soc. Polit. & Legal Philos. American political thought; international relations; political philosophy. Publ: Readings in world politics, 59 & Readings in American foreign policy, 59, Oxford Univ; John Locke, In: History of political philosophy, Rand McNally, 63. Address: Dept. of Political Science, Kenyon College, Gambier, Ohio 43022.

GOLDY, DANIEL L(OUIS), Econ, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

GOLEMBE, DR. CARTER H, b. Liberty, N.Y, Apr. 21, 24; m. 44; c. 2. ECONOMICS. B.A, Columbia, 46, M.A, 47, fel, 50-51, Ph.D.(econ), 52; LL.B, George Washington, 65. Economist, div. res. & statist, Fed. Deposit Ins. Corp, 51-60; econ. consult, Am. Bankers Asn, D.C, 60-66; PRES, CARTER H. GOLEMBE ASSOCS, INC, 66- U.S.A, 43-46. Econ. Asn; Finance Asn. Money and banking; American banking history; business cycles. Publ: Contrib, The commercial banking industry, Prentice-Hall, 62; auth, Structure of the U.S. banking system, Bankers Handbook, 66; Our remarkable banking system, Va. Law Rev, 67. Address: Carter H. Golembe Associates, Inc, 1700 Pennsylvania Ave. N.W, Suite 486, Washington, D.C. 20006.

GOLEMBIEWSKI, PROF. ROBERT T, b. Trenton, N.J, July 2, 32; m. 56; c. 3. POLITICAL SCIENCE. A.B, Princeton, 54; M.A, Yale, 56, Ph.D, 58. Instr. polit, Princeton, 58-60; asst. prof. mgt, Illinois, 60-63; vis. lectr, indust. admin, Yale, 63-64; assoc. prof. POLIT. SCI. GEORGIA, 64-66, prof, 66-67, RES. PROF, 67- Lectr, Baruch Sch. Pub. & Bus. Admin, City Col. New York, 59-60; summers, Ford Found. fel, 61, faculty fel, Illinois, 62. Consult, Warner-Chilcott Labs, 64-67; Nat. Training Labs, 64-; Smith, Kline & French, 66- Polit. Sci. Asn; Soc. Pub. Admin. Application of results of behavioral research toward development of a more adequate theory of productive organization, especially emphasis upon the staff concept. Publ: Behavior and organization; Men, management and morality, McGraw, 65; Organizing men and power, Rand McNally, 67. Address: Dept. of Political Science, University of Georgia, Athens, Ga. 30601.

GOLIN, DR. SANFORD, b. Providence, R.I, July 24, 29; m. 57; c. 3. PSYCHOLOGY. A.B, Brown, 51; M.S, Massachusetts, 56; Ph.D.(psychol), Iowa, 60. Clin. psychologist, Vet. Admin. Hosp, Knoxville, Iowa, 60; asst. prof. psychol, Wisconsin, Milwaukee, 60-65, sr. field assessment officer, Peace Corps, 62-65; ASSOC. PROF. PSYCHOL, PITTSBURGH, 65-, DIR. CLIN. TRAINING, 68-, chmn. clin. training cmt, 67-68. Res. consult, Milwaukee Jewish Voc. Serv, 62-63; consult. psychologist, Milwaukee Children's Hosp, 65; Allegheny County Schs, 66-; consult, Vet. Admin, 67- U.S.A, 52-54. AAAS; Psychol. Asn; Acad. Polit. & Soc. Sci. Publ: Co-auth, Effect of frustration on behavior of juvenile delinquents, J. Clin. Psychol, 21:198-200, Incubation and inhibition, J. Exp. Psychol, 71:208-211; Factor analytic study of the manifest anxiety, extraversion, and repression-sensitization scales, J. Consult. Psychol, 12/67. Address: Dept. of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15213.

GOLLEDGE, DR. REGINALD GEORGE, b. Dungog, Australia, Dec. 6, 37; m. 61; c. 1. GEOGRAPHY. B.A, New England, Australia, 58, M.A, 61; fel, Iowa, 64-65, Ph.D.(geog), 66. Sr. demonstr. GEOG, New England, Australia, 59-60; lectr, Canterbury, 61-63; asst. prof, British Columbia, 65-66; OHIO STATE, 66-67, ASSOC. PROF, 67- Asn. Am. Geog; Regional Sci. Asn; Soc. Psychol. Study Social Issues; Inst. Australian Geog. Urban and transportation research; problems of spatial behavior and the reduction of mathematical learning models for use in analyzing spatial problems. Publ: Co-auth, Traffic in a New Zealand city, Whitcombe & Tombs, N.Z, 65 & Construction and testing of a normative model for the spatial allocation of grocery expenditures by a dispersed population, Ann. Asn. Am. Geog, 67; auth, Conceptualizing the market decision process, J. Regional Sci, Suppl, winter 67. Address: Dept. of Geography, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

GOLLIN, PROF. EUGENE S, b. New York, N.Y, Oct. 28, 21; m. 50; c. 3. PSYCHOLOGY. B.S, City Col. New York, 47, M.A, 48; Ph.D.(psychol), Clark, 51. Asst. prof. psychol, Brooklyn Col, 51-53; res. assoc, N.Y. Univ, 53-54; asst. prof. child develop, Minnesota, 54-57; PSYCHOL, Queens Col. (N.Y), 57-61, assoc. prof, 62-64; PROF, ANTIOCH COL. & CHMN, FELS. RES. INST, 64- U.S.A.A.F, 42-46, Capt. Psychol. Asn; Soc. Res. Child Develop; Psychonomic Soc. Cognition; developmental and comparative psychology. Publ: Conditions which facilitate or impede cognitive functioning: implications for developmental theory and for education, In: The challenge of early education: reports of theory, research, and action, Aldine, 67; Research trends in infant learning, In: The exceptional infant, Vol. I: The normal infant, Spec. Child, spring 67; co-auth, Perceptual distinctiveness and oddity problem solving in children, J. Exp. Child Psychol, (in press). Address: Fels Research Institute, Yellow Springs, Ohio 45387.

GOLLIN, DR. GILLIAN LINDT, b. London, Eng, Nov. 3, 32; m. 59; c. 2. SOCIOLOGY. B.Sc, London, 54; M.A, Columbia, 55, Soc. Sci. Res. Coun. fel, 59-60, Ph.D.(sociol), 65. Res. asst. SOCIOL, Nuffield Res. Unit, inst. ed, Univ. London, 55-56; intern, bur. appl. soc. res, Columbia, 56-57; instr, Douglass Col, Rutgers, 57-59; asst. prof, Long Island, 60-61; lectr, Columbia, 61-62; asst. prof, Howard, 65-67; ASSOC. PROF, AMERICAN UNIV, 67- Soc. Sci. Res. Coun. faculty res. grant, 67-68. Consult, Nat. Inst. Child Health & Human Develop, 67- Bancroft award, Columbia, 65. Sociol. Asn; Soc. Sci. Study Relig. Historical sociology; comparative social institutions; classical public opinion research; history of sociological theory; sociology of religion. Publ: Moravians in two worlds: a study of changing communities, Columbia, 67; The religious factor in social change: Max Weber and the Moravian paradox, Arch. Sociologie Religions, 67. Address: 2954 Northampton St. N.W, Washington, D.C. 20015.

GOLLOB, DR. HARRY F(RANK), b. Newark, N.J, June 7, 39; m. 59; c. 3. PSYCHOLOGY. B.A, Denver, 60; M.S, Yale, 62, Ph.D.(psychol), 65. U.S. Pub. Health Serv. res. fel, Yale, 64-65; ASST. PROF. PSYCHOL, MICHIGAN, 65-, ASST. RES. PSYCHOLOGIST, MENT. HEALTH RES. INST, 65- Psychol. Asn; Psychomet. Soc; Statist. Asn. Impression formation and social reasoning; methods of data analysis; persuasibility. Publ: Different effects of manipulated self-esteem on persuasibility depending on threat and complexity of the communication, & co-auth, Distraction as a factor in the enjoyment of aggressive humor, 67, J. Personality & Soc. Psychol; auth, A statistical model which combines features of factor analytic and analysis of variance techniques, Psychometrika, 3/68. Address: Mental Health Research Institute, University of Michigan, Ann Arbor, Mich. 48104.

GOLLUB, DR. LEWIS R, b. Philadelphia, Pa, June 9, 34. EXPERIMENTAL PSYCHOLOGY. A.B, Pennsylvania, 55; Nat. Sci. Found. fel, Harvard, 55-58, Ph.D.(psychol), 58. Res. fel. PSYCHOL, Harvard, 58-60; asst. prof, MARYLAND, 60-64, ASSOC. PROF, 64- Prin. investr, U.S. Pub. Health Serv. grant, 63-, spec. res. fel, Royal Col. Surgeons, London, 66-67. AAAS; Psychonomic Soc. Psychopharmacology; establishing and maintaining behavior with conditioned positive reinforcement; operant conditioning; effects of drugs on behavior; psychological effects accompanying conditioning. Publ: Accentuation of a rate difference during extinction & Review of positive conditioned reinforcement, J. Exp. Anal. Behav; co-auth, Behavioral pharmacology, Annual Rev. Pharmacol, 65. Address: Dept. of Psychology, University of Maryland, College Park, Md. 20740.

GOLOB, PROF. EUGENE O(WEN), Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GOLOMSKI, WILLIAM A(RTHUR), Appl. Math, Statist, see 11th ed. Phys. & Biol. Vols.

GOLS, DR. A. GEORGE, b. Passaic, N.J, July 12, 28; m. 58; c. 3. ECONOMICS. B.A, Upsala Col, 54; summer fel, Harvard, 54; Ford Found. grant, univ. fel. & M.A, Hopkins, 57; Pennsylvania, 57-58; Ph.D.(econ), Oregon, 60. Budget analyst, Black & Decker Co, Md, 55-56; economist, Sun Oil Co, Pa, 56-58; res. economist, Inst. Int. Studies, Univ. Oregon, 58-60; SR. STAFF CONSULT. ECON. & BUS, ARTHUR D. LITTLE, INC, 60- Chmn. adv. res. cmt, Boston Chamber of Commerce, 65-66; dir. bd. dirs, Inst. Interindust. Data Inc, 66- Mil. Intel, 46-48, S/Sgt. Econ. Asn; Regional Sci. Asn. Industrial economics; business research; statistics; planning. Publ: Co-auth, U.S. private and government investment abroad, Univ. Oregon, 62, Growth of foreign nuclear power, U.S. Atomic Energy Cmn, 66 & Projected exports and imports of selected agricultural products of South Africa, U.S. Dept. Agr, 66. Address: Arthur D. Little, Inc, 35 Acorn Park, Cambridge, Mass. 02140.

GOLUB, DR. ARNOLD J(ASON), b. Boston, Mass, Feb. 27, 26. PSYCHOLOGY. B.A, Massachusetts, 48; M.A, Iowa, 51, Ph.D.(psychol), 52. Asst, Iowa, 50-52; res. psychologist, U.S. Dept. Air Force, 55-58; CLIN. PSYCHOLOGIST, BRONX VET. ADMIN. HOSP, 58- Med.Serv.C, 52-54, Lt. Psychol. Asn; Speech & Hearing Asn. Psychotherapy; psychoanalysis; speech pathology. Publ: Contrib, Cumulative effect of constant and varying reading material on stuttering adaptation, In: Stuttering in children and adults. Address: Apt. 6C, 445 E. 86th St, New York, N.Y. 10028.

GOMBERG, DR. EDITH S(ILVERGLIED), b. New York, N.Y, Jan. 14, 20; m. 67; c. 3. PSYCHOLOGY. M.A, Columbia, 40; Ph.D.(psychol), Yale, 49. Psychol. intern, Rockland State Hosp, N.Y, 41-42; asst, Norwich State Hosp,

Conn, 42-43; consult. psychologist, Bridgeport Ment. Hyg. Soc, 44-46; Yale Plan Clin, 46-49; Conn. Cmn. Alcoholism, 49-54; res. asst. PSYCHOL, center alcohol studies, Yale, 49-56, lectr, 56-61, RES. ASSOC, 61-67; PUERTO RICO, 67- Am. Asn. Univ. Women Colton fel, 55-56; res. psychologist, Responsive Environ. Found, 61-67; planning assoc, alcohol & drug dependence div, Conn. Dept. Ment. Health, 64-67. Psychol. Asn; Psychonomic Soc. Alcoholism; psychopathology in women. Publ: Alcoholism research and program analysis, TAP Proc, N.H, U.S. Pub. Health Serv, 63; Clinical research in alcoholism and the use of psychological tests: a re-evaluation, In: Alcoholism-behavioral research, therapeutic approaches, Springer Pub, 67; Organic and psychological aspects of drinking and alcoholism, In: International encyclopedia of the social sciences, Macmillan, 67. Address: Puerto Rico Nuclear Center, Bio-Medical Bldg, Caparra Heights, San Juan, P.R. 00935.

GOMBERG, PROF. WILLIAM, b. Brooklyn, N.Y, Sept. 6, 11; m. 39; c. 1. INDUSTRIAL RELATIONS. B.S, City Col. New York, 33; M.S, N.Y. Univ, 41; Ph.D.(indust. eng), Columbia, 47. Bus. agent, local 91, int. ladies garment workers union, Am. Fedn. Labor, 37-41, dir. mgt. eng. dept, 41-59; PROF. INDUST, WHARTON SCH, PENNSYLVANIA, 59- Adj. prof, Columbia, 55-56; summers, vis. prof, Stanford, 59-61. Consult. engr, Econ. Coop. Admin. & Mutual Security Agency, 50-53; consult, Nat. Acad. Sci. Indust. Mgt. Soc; Soc. Mech. Eng; Soc. Adv. Mgt; Econ. Asn; Statist. Asn; Inst. Indust. Eng; Inst. Mgt. Sci; Acad. Arbit. Industrial engineering from the trade union viewpoint; relation of management process to behavioral studies. Publ: Trade union analysis of time study; co-auth, Blue collar world, 64 & New perspectives on poverty, 65. Address: Dept. of Industry, Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

GOMEZ, DR. HENRY, b. London, Eng, May 1, 32. INTERNATIONAL BUSINESS, MARKETING. B.S, N.Y. Univ, 52, M.B.A, 54, Ph.D.(int. bus), 65. Asst. prof. econ, Indiana, 64-68; FORD FOUND. PROJ. SPECIALIST, INST. ADV. STUDIES IN ADMIN, CARACAS, VENEZUELA, 68- Resident coordinator econ. prog, Cath. Univ. Andres Bello, Venezuela, 64-68; consult. dir. inst. econ. res, 64-67, vis. res. prof, 67-68. Chmn. bus. & econ. adv. bd, ed. cmt, N.Am. Asn. of Venezuela, 66- Econ. Asn; Mkt. Asn; Asn. Ed. Int. Bus; Latin Am. Studies Asn. International marketing; foreign competition; relations between host governments and foreign companies; development economics; role of marketing. Publ: Co-auth, International trade, Prentice-Hall, 59 & La banca comercial en Venezuela, Inst. Econ. Res, Cath. Univ. Andres Bello, 67; auth, Iron ore in Venezuela, In: Host government-foreign company relations, Resources for the Future, 68. Address: Ford Foundation Project, Institute of Advanced Studies in Administration, Caracas, Venezuela.

GOMEZ, DR. MICHAEL ALBERT, III, b. New Orleans, La, Nov. 21, 29; m. 50; c. 3. ECONOMICS. B.S, La. State, 52, M.A, 55; Ph.D.(econ), Ohio State, 62. Instr. econ, St. Joseph's Col.(Ind), 53-55; Okla. State, 55-57; Ohio State, 57-61; asst. prof, Lafayette Col, 61-63; economist, bd. gov, Fed. Reserve Syst, D.C. 63-65; SR. ECONOMIST, W.R. GRACE & CO, 65- Res. fel, Orgn. Am. State, Peru, 61; assoc. prof. lectr, George Washington, 64-65; lectr, Queens Col, 66- Summers, Ford. Found. res. assoc, Cleveland Metrop. Serv. Cmn, 57, vis. prof, George Peabody Col, 60, consult. to Agency Int. Develop, Int. Econ. Serv, Brazil, 63. Econ. Asn; Soc. Int. Develop; Latin Am. Studies Asn. Economic development of Latin America, especially Peru, Brazil and Mexico; capital, credity and technical assistance in development process. Publ: Economic development of the United States South, Peabody Leadership Conf, 60; Role of international technical cooperation in the interregional development of Peru, Am. Economist, summer 64; Exports and growth in Peru, Rev. For. Develop, Fed. Res. Bd, 64. Address: 83-33 Austin St, Apt. 2P, Kew Gardens, N.Y. 11415.

GOMEZ, PROF. ROSENDO A(DOLFO), b. Montpelier, Vt, Sept. 20, 16; m. 52. POLITICAL SCIENCE. Ph.B, Vermont, 39; M.A, Minnesota, 47, Ph.D, 50. Instr. GOVT, ARIZONA, 48-50, asst. prof, 50-57, assoc. prof, 57-61, PROF, 61- Soc. Sci. Res. Coun. fel, 61-62. U.S.A, 41-46, Capt. Polit. Sci. Asn. Comparative government, especially in Latin America. Publ: Government and politics in Latin America. Address: Route 2, Box 705-D, Tucson, Ariz. 85715.

GONDA, DR. THOMAS ANDREW, Psychiat, see 11th ed. Phys. & Biol. Vols.

GONYEA, PROF. GEORGE GERALD, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

GONZALEZ, DR. ALFONSO, b. New York, N.Y, Mar. 21, 27; m. 56; c. 3. GEOGRAPHY, LATIN AMERICAN STUDIES. A.B, Clark, 49; M.A, Northwestern, 50; asst, Texas, 52, fels, 52-54, 56-57, Ph.D.(geog), 62. Mil. intel. res. specialist, U.S. Army Map Serv, D.C, 54-55; res. asst, Texas, 55-56; from instr. GEOG. to asst. prof, San Diego State Col, 57-60; asst. prof, Northeast La. State Col, 60-62; summer vis. prof, Kent State, 62; asst. prof, Southern Illinois, 62-63; assoc. prof. & chmn. dept, South Florida, 63-67; ASSOC. PROF, CALGARY, 67- Nat. Sci. Found. res. grants, 66-67. Summers, Nat. Defense Ed. Act fel. Spanish, California, Los. Angeles, 63; consult. rev. of Man & the Earth, Prentice-Hall, 65. U.S.A, 45-46, 50-51, Sgt. Asn. Am. Geog; Nat. Coun. Geog. Ed; Asn. Latin Am. Studies; Pan Am. Inst. Geog. & Hist; Econ. Asn; Can. Asn. Geog. Problems relating to population and economic development, especially in Latin America. Publ: El problema del crecimiento de la población y del desarrollo economico en la América Latina, Sociedad Mexicana de geografía & Estadística, 66; Problems of agricultural development in a pioneer region of southwestern coastal Mexico, Revista Geográfica, 6/66; Some effects of population growth on Latin America's economy, J. Inter-Am. Studies, 1/67. Address: Dept. of Geography, University of Calgary, Calgary, Alta, Can.

GONZALEZ, DR. NANCIE L(OUDON) SOLIEN, b. Chicago, Ill, Dec. 9, 29; c. 2. CULTURAL ANTHROPOLOGY. B.S, North Dakota, 51; M.A, Michigan, 55, fel, 55-56, Ph.D.(anthrop), 58; summer, Henry L. & Grace Doherty grant, 55, 56-57. Instr. nutrit. & dietetics, Jamestown Col, 52-53; lectr. anthrop, California, 59-60; anthropologist, Inst. Nutrition of Cent. Am. & Panama, 61-65; ASSOC. PROF. ANTHROP, NEW MEXICO, 65- Nat. Sci. Found. res. grant, Dominican Rep, 67-69; summers, prof, Univ. San Carlos, Guatemala, 57, 61. Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop; fel. Ethnol. Soc. Caribbean; social organization; kinship; economics; nutrition and health; Spanish-Americans of New Mexico. Publ: The Spanish Americans of New Mexico: a distinctive heritage, Univ. California, 67; Family organization in five types of migratory wage labor, Am. Anthropologist, 63; Health behavior in cross-cultural perspective, Human Orgn, 66. Address: Dept. of Anthropology, University of New Mexico, Albuquerque, N.Mex. 87106.

GONZALEZ, PROF. R(ICHARD) C(HARLES), b. San Antonio, Tex, Dec. 13, 29; m. 50; c. 5. EXPERIMENTAL PSYCHOLOGY. B.A, Texas, 52, M.A, 53; Ph.D, Maryland, 57. Asst. prof. PSYCHOL, Maryland, 57-59; U.S. Pub. Health Serv. fel. & vis. lectr, BRYN MAWR COL, 59-61, asst. prof, 61-62, assoc. prof, 62-67, PROF, 68- Nat. Inst. Ment. Health res. career award, 63. Psychol. Asn; Psychonomic Soc. Learning; comparative psychology. Address: Dept. of Psychology, Bryn Mawr College, Bryn Mawr, Pa. 19010.

GONZALEZ, DR. RICHARD JOSEPH, b. San Antonio, Tex, Aug. 17, 12; m. 36. ECONOMICS, STATISTICS. B.A, Texas, 31, M.A, 32, Ph.D, 34. Instr. econ, Texas, 32-35, asst. prof, 36-37; New Mexico, 35-36; exec. adv, Humble Oil & Ref. Co, 37-51, dir, 51-65, treas, 53-59; ECON. CONSULT, 65- Dir, Nat. Indust. Conf. Bd, 56-65. Consult, Petrol. Admin. Defense, 51-53; cabinet cmt, Off. Defense Mobilization, 54; mem. Nat. Petrol. Coun, 66- Econ. Asn. Petroleum economics; taxation of mineral resources. Publ: Percentage depletion for petroleum production; Petroleum operations in the United States, In: Advances in petroleum chemistry and refining; Regularization of investments in petroleum. Address: 48 Tiel Way, Houston, Tex. 77019.

GONZALEZ-R, DR. LUIS, b. Mexico City, Mex, Apr. 8, 24. SOCIAL & APPLIED ANTHROPOLOGY. M.A, Loyola (Calif), 52; Lic. divinity, Facultes St. Albert Eegenhoven, Louvain, 56; Ph.D.(ethnol), Paris, 62. Researcher Tarahumara lang, Tarahumara Mission of Soc. Jesus, 49-52; prof. anthrop, IBEROAMERICAN UNIV, MEX, 63-67, DIR. SCH. SOC. SCI, 67-, sch. soc. anthrop, 64-67, sub-dir, sch. polit. & soc. sci, 66-67, consult, inst. soc. sci, 66- Travel grant-in-aid to Int. Cong. Anthrop. & Ethnol. Sci, Moscow, 64. Tech. adv, Tarahumara Mission Syst, 63-; Radio Sch. Syst. Huayacocotla, Veracruz, 65- Nat. Guard, 42, 65-69. For. fel. Anthrop. Asn; French Soc. Americanists. Ethnohistorical and actual ethnological research among Tarahumara Indians of Chihuahua, Mexico; community development and sub-regional planning in Tarahumara country; field work in area around Texcoco. Publ: Co-auth, Diccionario Tarahumar-Castellano, Mission Tarahumara, 52; auth, Revoltes des Indiens Tarahumars (1626-1724), Inst. des Hautes Etudes de l'A.Latine, Paris, 68. Address: Universidad Iberoamericana, Cerro de las Torres, 395, Mexico 21, D.F, Mex.

GOOCH, DR. B(RISON) D(OWLING), Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GOOD, PROF. CARTER V(ICTOR), b. Dayton, Va, Sept. 16, 97; m. 20; c. 1. EDUCATIONAL PSYCHOLOGY. A.B, Bridgewater Col, 18, hon. LL.D, 50; A.M, Virginia, 23; Ph.D.(ed. & ed. psychol), Chicago, 25. Prof. ed, Miami (Ohio), 25-30; CINCINNATI, 30-68, dean col. ed. & home econ, 59-66, dean inst. res, 66-68, DEAN & EMER. PROF, 68-, acting dean teachers col, 44-47, dean, 47-59, dir. grad. studies, 44-59. Pres, Ed. Res. Asn, 40-41. U.S.N, 18-19. Fel. AAAS; fel. Psychol. Asn. Educational and social bibliography; research methodology in educational, psychological and social areas; educational, psychological and social terminology. Publ: Dictionary of education; Introduction to educational research; co-auth, Methods of research, educational, psychological, sociological. Address: 266 Hillcrest Dr, Cincinnati, Ohio 45215.

GOOD, DR. DOROTHY, b. Mt. Sterling, Ill, July 12, 06. ECONOMICS, POLITICAL SCIENCE. B.A, Wellesley Col, 27, M.A, 31, Horton-Hallowell fel, 35, 36; Ph.D.(econ, polit. sci), London, 36. Ed. spec. pub, Am. Geog. Soc, 40-54; res. assoc, OFF. POP. RES, PRINCETON, 54-64, MEM. RES. STAFF, 64- Econ. Asn; Polit. Sci. Asn; Pop. Asn. Demography; economic resources; British political history. Publ: Co-auth, Japan, a geographical view; Geography of the Northlands; ed, Population index. Address: 105 Bayard Lane, Princeton, N.J. 08540.

GOOD, PROF. ROBERT A, b. Milton, Pa, Apr. 3, 21; m. 49; c. 2. CLINICAL PSYCHOLOGY. B.S, Bucknell, 42; M.A, Ohio State, 48, Ph.D.(clin. psychol), 52. From assoc. prof. to PROF. PSYCHOL, SACRAMENTO STATE COL, 52- Consult, Sacramento & Yolo County Sch. Dists; State Hwy. Patrol, Calif, 53-; State Alcoholic Beverage Control, 53- U.S.N.R, 42-46, Lt. Psychol. Asn. Projective tests; personality theory; psychotherapy; suicidology. Address: 1525 Barnett Circle, Carmichael, Calif. 95608.

GOODACRE, DR. DANIEL M(ILLSON), Indust. Psychol, see 10th ed, Soc. & Behav. Vols.

GOODACRE, RAYMOND HARRY, b. London, Eng, June 6, 24; Can. citizen; m. 50; c. 2. SOCIOLOGY. B.A, Yale, 49, M.A, 50; C.P.H, Toronto, 52. Consult. pub. health ed, B.C. Health Br, 50-52, dir. div. pub. health ed, 52-65; CONSULT. MED. SOCIOL, CAN. DEPT. NAT. HEALTH & WELFARE, 65- Lectr, Victoria (B.C), 61-65; sch. hosp. admin, Ottawa (Ont), 66- R.C.A.F, 43-46. Am Sociol. Asn; Can. Pub. Health Asn. Social factors associated with the utilization of health care services. Publ: In service education for public health nurses, Can. Nurse, 5/62; co-auth, Survey of community Knowledge, attitudes and habits in regard to four dental health practices as they apply to children, J. Can. Dent. Asn, 7/66. Address: 1997 Neepawa Ave, Ottawa 13, Ont, Can.

GOODALE, DR. JANE C(ARTER), b. Boston, Mass, May 18, 26. ANTHROPOLOGY. A.B, Radcliffe Col, 48, A.M, 51; Ph.D.(anthrop), Pennsylvania, 59. Asst. gen. ethnol, mus, Pennsylvania, 50-61; lectr, BRYN MAWR COL, 61-62, ASST. PROF. ANTHROP, 62-, RES. ASSOC, MUS, 61-, instr, 59-60. Ethnog. fieldwork, North. Territory, Australia, 54, Territory of New Guinea, 62, 63-64, 67-68. AAAS; Anthrop. Asn. Ethnography of Australia and Oceania. Publ: The Tiwi Dance for the dead, Expedition; Marriage contracts and cross cousin marriage among the Tiwi of North Australia, Ethnology. Address: Dept. of Anthropology, Bryn Mawr College, Bryn Mawr, Pa. 19010.

GOODALL, DR. LEONARD EDWIN, b. Warrensburg, Mo, Mar. 16, 37; m. 59; c. 3. POLITICAL SCIENCE. B.A, Cent. Mo. State Col, 58; M.A, Missouri, 60; Ph.D.(polit. sci), Illinois, 62. Asst. dir bur. govt. res, Arizona State, 62-65, dir, 65-67; ASSOC. PROF. POLIT. SCI, ILLINOIS, CHICAGO, 67- Consult, Ariz. Acad, 64-65; Ariz. State Legis, 64-65, dir. res, 67. U.S.A.R, 58-64, Sgt. Soc. Pub. Admin; Polit. Sci. Asn. Urban politics; intergovernmental relations; metropolitan area problems. Publ: The American metropolis, C.E. Merrill, 68; Co-auth, Urban politics in the southwest, Inst. Pub. Admin, Arizona State Univ, 67; auth, Politics meets the urban executive, Pub. Mgt, 12/66. Address: 6823 Kincaid Court, Downers Grove, Ill. 60515.

GOODALL, PROF. MERRILL R(ANDALL), b. San Francisco, Calif, Feb. 27, 17; m. 47; c. 1. POLITICAL SCIENCE. A.B, California, 38, A.M, 39; Soc. Sci. Res. Coun. fel. & univ. fel, Hopkins, 47-49, Ph.D, 50. Exam, U.S. Civil Serv. Cmn, 41-42, 46; instr. & asst. polit. sci, Alabama, 46-47; instr, Loyola Col.(Md) & Hopkins, 47-49; asst. prof. polit. sci, Colorado, 49-51; Soc. Sci. Res. Coun. area travel grantee & Fulbright prof, Delhi, 51-52; U.S. Specialists Prog, 52-53; exec. dir. & field dir, Cornell-India prog, 53-55; assoc. prof. ASIAN STUDIES & GOVT, CLAREMONT GRAD. SCH, 55-61, PROF, 61- Prof, Lucknow, 54-55; Am. Coun. Learned Socs-Soc. Sci. Res. Coun. res. grant, 60-61. Adv. to Prime Minister Nepal, 52, consult, 55; Coronet Films, 53-; sr. adv. govt. admin, UN, Nepal, 62-63. With Off. Strategic Serv, 42-45. Trustee, Am. Inst. Indian Studies, 61-67. Consult, Asia Soc, 61-; Peace Corps, 63-67; Defense Dept, 66. Mem. & chmn, Fulbright Nat. Screening Cmt, Asia, 59-61. Polit. Sci. Asn; Soc. Pub. Admin; Asn. Asian Studies. Comparative administration; South Asia; political economy. Publ: Administration for economic development, Delhi Univ, 52; The political system of India, TEMPO, 58; Development of public administration in Nepal, UN, 63. Address: Dept. of Government, Claremont Graduate School, Claremont. Calif. 91711.

GOODE, CECIL E(ARNEST), b. Barren Co, Ky, Mar. 5, 15; m. 41; c. 3. PUBLIC ADMINISTRATION. B.S. & M.S, Purdue, 38. Personnel exam, State Bur. Personnel, Ind, 38-39, 40-41; position classification analyst, Fed. Housing Admin, 39-40; personnel officer, Off. Emergency Mgt, 41-43; dir. personnel mgt. staff, Vet. Admin, 46-51; dir. personnel, Fed. Civil Defense Admin, 51-54; staff dir. subcmt, Hoover Cmn, 54-55; spec. asst, U.S. Dept. Defense, 55-59; exec. dir, Nat. Civil Serv. League, 59-60; MGT. ANALYST, U.S. BUR. BUDGET, 60- Part time prof, George Washington, 60-; consult, U.N. Food & Agr. Orgn, 67. U.S.A.A.F, 43-46, Capt. Soc. Pub. Admin; Soc. Personnel Admin.(pres, 50; ed, Personnel Admin, 55-60). Personnel and general management. Publ: Special personnel problems in the Department of Defense; Federal career service, a look ahead; Personnel research frontiers. Address: 1482 Waggaman Circle, McLean, Va. 22101.

GOODE, PROF. CLARENCE E, b. Reading, Pa, Nov. 10, 28; m. 57; c. 2. POLITICAL SCIENCE. B.A, Pittsburgh, 51; M.Ed, Hopkins, 59. Biographical asst, conf. appln. sci. & tech. for benefit less developed areas, UN, 62; ASSOC. PROF. POLIT. SCI, MILLERSVILLE STATE COL, 63- U.S.N, 51-55. Polit. Sci. Asn. Constitutional law; modern political theory; European comparative government. Address: Dept. of Political Science, Millersville State College, Millersville, Pa. 17551.

GOODE, DR. RICHARD, b. Ft. Worth, Tex, July 31, 16; m. 43. ECONOMICS. A.B, Baylor, 37; A.M, Kentucky, 39; Ph.D, Wisconsin, 47. Asst. prof. econ, Chicago, 47-51; asst. chief finance div, INT. MONETARY FUND, 51-54, chief, 54-58, asst. dir, Asian Dept, 58-59, DIR. FISCAL AFFAIRS DEPT, 65-; mem. sr. staff, Brookings Inst, 59-65. Ed, Nat. Tax J, 50-51. Mem. cmt. soc. security & taxation, President's Cmn. on Status of Women & adv. group, Cmnr. Int. Revenue, 62-63. Econ. Asn; Finance Asn; Soc. Int. Develop; Royal Econ. Soc; Int. Inst. Pub. Finance. Public finance and monetary policy. Publ: Corporation income tax, Wiley, 51; Individual income tax, Brookings, 64. Address: International Monetary Fund, 19th & H Streets N.W, Washington, D.C. 20431.

GOODE, PROF. WILLIAM J(OSIAH), b. Houston, Tex, Aug. 30, 17; m. 37, 50; c. 4. SOCIOLOGY. Ph.D, Pa. State Col, 46. Instr. sociol, Pa. State Col, 41-43; soc. sci. analyst, Inter-Am. Statist. Inst, 43-44; asst. prof. SOCIOL, Wayne, 46-50; res. assoc, COLUMBIA, 50-52, assoc. prof, 52-56, PROF, 56- Vis. prof, Berlin, 54; Guggenheim fel, 65. Asst. ed, Marriage & Family Living, 54- Mem. bd. gov, Bur. Appl. Res, 57-; mem. bd, Soc. Sci. Res. Coun, 60-66. U.S. del, UN Conf. Underdevelop. Nations, Geneva, 62. Mac Iver prize, 65. U.S.N, 44-45. Sociol. Asn; Anthrop. Asn. Primitive religion; industrial sociology; marital instability; integrated social theory. Publ: World revolution & family, Patterns, 63; The family, Prentice-Hall, 64; Dynamics of modern society, Atherton, 65. Address: Dept. of Sociology, Columbia University, New York, N.Y. 10027.

GOODELL, PROF. GEORGE S(IDNEY), b. Sheboygan, Wis, Nov. 29, 21; m. 51; c. 2. FINANCE. A.B, Carroll Col, 43; M.B.A, Chicago, 47; LL.B, Marquette, 49; Ph.D, Northwestern, 59. Private practice, Wis, 49-51; credit analyst, U.S. Steel Corp, Ill, 52-53; asst. secy, Ill. Bankers Asn, 53-56; tech. writer, Nat. Asn. Bank Auditors & Comptrollers, 56-57; asst. prof. bus. orgn, col. commerce & admin, Ohio State, 57-62, assoc. prof, 62-66; PROF. FINANCE, KENT STATE, 66- U.S.N.R, 43-46, Lt.(jg). Econ. Asn; Finance Asn. Financial management; bank management. Address: 4470 Timberdale Dr, Stow, Ohio 44224.

GOODEN, PROF. O(RVILLE) T(HRASHER), Econ, see 10th ed, Soc. & Behav. Vols. Latest known address: 36 Meadowbrook Dr, Conway, Ark. 72032.

GOODENOUGH, DR. DAVID S(TANLEY), b. Norwich, Conn, Jan. 17, 22; m. 45; c. 3. CLINICAL PSYCHOLOGY. B.S, Connecticut, 47; M.S, Purdue, 49, Ph.D.(clin. psychol), 51. Chief psychologist, Logansport State Hosp, 51-52; supv. clin. psychologist, VET. ADMIN. HOSP, Knoxville, Iowa, 52-55, Pittsburgh, Pa, 55-56, COORDINATOR CLIN. PSYCHOL, BROCKTON, MASS, 56- Consult, Mass. Rehab. Cmn, 63-; mem, Brockton Area Bd. Ment. Health Retardation, 67- U.S.A.A.F, 43-45, U.S.A.R, 57-65, Maj. Psychol. Asn. Group dynamics; psychotherapy; psychodiagnosis; rehabilitation programs; aging. Publ: Self study groups: hope for troubled normal, Community Ment. Health J, 65. Address: 25 North Street, Mattapoisett, Mass. 02739.

GOODENOUGH, DR. D(ONALD) R(OBERT), b. San Francisco, Calif, Sept. 26, 27; m. 52; c. 3. PSYCHOLOGY. B.A, Stanford, 50; Oregon; Pittsburgh; Ph.D.(psychol), Rochester, 55. Proj. dir. res. psychol. stress, Am. Inst. Res, Pa, 51-52; asst. psychol, Rochester, 52-54; asst. prof. PSYCHIAT, STATE UNIV. N.Y. DOWNSTATE MED. CENTER, 54-63, ASSOC. PROF, 63- U.S. Pub. Health Serv. res. career develop. award, 63- U.S.A, 46-47. Psychol. Asn; Asn. Psychophysiol. Study Sleep. Perception and its personality correlates; sleep and dreams; experimental design. Publ: Co-auth, Psychological differentiation: studies of development; co-auth, Comparison of dreamers and nondreamers: eye movements, electroencephalograms, and the recall of dreams & Field dependence and intellectual functioning, J. Abnorm. & Soc. Psychol. Address: 78 N. Peconic Dr, Massapequa, N.Y. 11758.

GOODENOUGH, PROF. EVA, b. Milwaukee, Wis, Jan. 20, 13. PSYCHOLOGY. B.S, Fla. State Col. for Women, 34; M.S, Purdue, 41; Ph.D.(psychol), Ohio State, 51. Instr. ed. & psychol, Westminster Col, 43-45, asst. prof, 45-46; asst. PSYCHOL, Ohio State, 46-49; asst. prof, Birmingham-South. Col, 49-51; Trinity, 51-54; SOUTH. STATE COL, 55-57, assoc. prof, 57-64, PROF, 64-, CHMN. DEPT, 57- Summer res. assoc, primate lab, Wisconsin, 62. Nat. Sci. Found. stipend to attend inst. for teachers of psychol. in small cols, Michigan, summer 67. Psychol. Asn. Measurement of personality and attitudes. Publ: The forced choice technique as a method for discovering effective teacher personality, J. Ed. Res; co-auth, Learning set development: trials to criterion vs. six trials per problem, Psychol. Reports, 63. Address: Dept. of Psychology, Southern State College, Magnolia, Ark. 71753.

GOODENOUGH, DR. EVELYN WILTSHIRE, Psychol, see PITCHER, PROF. EVELYN GOODENOUGH.

GOODENOUGH, PROF. WARD H(UNT), b. Cambridge, Mass, May 30, 19; m. 41; c. 3. CULTURAL ANTHROPOLOGY. B.A, Cornell, 40; Sterling fel, Yale, 47-48, Ph.D.(anthrop), 49. Instr. ANTHROP, Wisconsin, 48-49; asst. prof, PENNSYLVANIA, 49-54, assoc. prof, 54-62, PROF, 62- Vis. prof, Cornell, 61-62; fel, Center for Adv. Study in Behav. Sci, 57-58. U.S.A, 41-45. Fel. AAAS; fel. Anthrop. Asn.(ed, 66-); Ethnol. Soc.(pres, 62); Soc. Appl. Anthrop.(pres, 63); Ling. Soc; Oriental Soc; fel. Royal Anthrop. Inst. Gt. Brit. Ethnographic method; theory of culture; social structure; Pacific Island cultures. Publ: Cooperation in change, Russell Sage, 63; ed, Explorations in cultural anthropology, McGraw, 64; auth, Property kin and community on Truk. Address: Dept. of Anthropology, University of Pennsylvania Museum, 33rd & Spruce Sts, Philadelphia, Pa. 19104.

GOODFELLOW, DR. LOUIS D(EAL), b. Altoona, Pa, Oct. 12, 05; m. 33; c. 3. PSYCHOLOGY. B.S, Lafayette Col, 29; M.S, Pa. State, 30; Iowa, 30-31; Ph.D.(psychol), Northwestern, 32. Res. Assoc. psychol, Northwestern, 32-34, lectr, 34-42, dir. psycho-ed. clin. handicapped persons, 39-42; asst. to dir. training, U.S. Army Air Force Tech. Training Command, 42-43; asst. to pres, Trimm Radio Mfg. Co, 43-46; PROF. PSYCHOL, ALTOONA CAMPUS, PA. STATE, 46- Res. grant, Am. Philos. Soc; Am. Med. Asn. Assoc. dir. & dir. res, Am. Inst. Deaf & Blind, 34-39; exec. dir, Audio-Visual Res. Found, 39-61. AAAS; fel. Psychol. Asn. Auditory and tactile sensitivity; psychotherapy; educational development. Address: Dept. of Psychology, Altoona Campus, Pennsylvania State University, Altoona, Pa. 16602.

GOODGLASS, DR. HAROLD, b. New York, N.Y, Aug. 18, 20; m. 45; c. 2. PSYCHOLOGY. B.A, City Col. New York, 39; M.A, N.Y. Univ, 48; Ph.D. (psychol), Cincinnati, 51. Clin. psychologist, VET. ADMIN. HOSP, BOSTON, 52-57, asst. chief & dir. res, clin. psychol. sect, 57-65, CHIEF CLIN. PSYCHOL, 65- Clin. assoc, Boston, 55-66, assoc. prof, 66-; lectr, Clark, 57-67, prof, 67- Consult, Lemuel Shattuck Hosp, 57-63. U.S.A.A.F, 42-46, Capt. Psychol. Asn. Psychological after effects of brain damage; psychology of language and organic language disorders. Publ: Co-auth, Language laterality in left-handed aphasics, Brain; auth, Phrase length and the type and severity of aphasia, Cortex, 64; Prosodic factors in grammar-evidence from aphasia, J. Speech & Hearing Res, 67. Address: 8 Hosmer Circle, West Newton, Mass. 02165.

GOODISON, DR. JULES MARTIN, b. Philadelphia, Pa, May 27, 30; m. 59; c. 2. COUNSELING, GUIDANCE. B.S, Temple, 52, M.Ed, 53; Ed.D.(counseling, guid), Temple, 62. Teacher, elem. schs, Phila. Sch. Dist, Pa, 53-55, 57-58; counsr. & psychologist, Lower Camden County Sch. Dist, 58-60; STAFF ASSOC. & ED. PSYCHOLOGIST, SCI. RES. ASSOCS, 60- U.S.A, 55-56, Res, 56- Psychol. Asn; Personnel & Guid. Asn. Study of non-intellectual factors as related to over and under achievement. Address: 142 Juniper Rd, Havertown, Pa. 19083.

GOODLETT, PROF. JOHN C(AMPBELL), Geog, see 10th ed, Soc. & Behav. Vols, deceased 67.

GOODLING, PROF. RICHARD A(LBERT), b. Millersburg, Pa, Oct. 20, 24; m. 49; c. 5. PSYCHOLOGY. A.B, Franklin & Marshall Col, 46; B.D, Theol. Sem. Evangelical & Reformed Church, 49; Ph.D.(psychol), Pa. State, 54. Asst. prof. psychol. & counsr, testing & guid. serv, Emory, 53-59; assoc. prof. PASTORAL CARE, DIVINITY SCH, DUKE, 59-67, PROF, 67- Psychol. Asn. Religious needs and interests; pastoral care and counseling; clinical psychology. Publ: Some practical considerations in Q-sort item selection, J. Counseling Psychol; Teacher-member relationship in the adult church school class, Relig. Ed; Clinical pastoral education in the parish, Duke Divinity Sch. Rev, winter 67. Address: Duke University Divinity School, Durham, N.C. 27706.

GOODMAN, DR. ARNOLD F(RANK), Math. Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GOODMAN, DR. BARBARA A(NN), Psychol, see 10th ed, Soc. & Behav. Vols.

GOODMAN, PROF. CHARLES H(ERTZEL), b. London, Eng, Mar. 2, 15; nat; m. 44; c. 2. PSYCHOLOGY. B.Sc, Wilson Teachers Col, 36; M.S, Pa. State Col, 39, Ph.D.(psychol), 41; fel, Harvard, 36-37. Chief exam, State Civil Serv. Cmn, Pa, 41-42; chief psychol. & personnel studies, Victor Div, Radio

Corp. of Am, 42-44; psychologist, U.S. Pub. Health Serv, 44-46; sr. personnel technician, U.S. Employ. Serv, 46-47; res. psychologist, U.S. Dept. Army, D.C, 47-55; chief mgt. develop, U.S. Dept. Air Force, 55-56; PROF. PSYCHOL. & ASSOC. DEAN, AMERICAN UNIV, 56- James McKeen Cattell fel, 44. Consult, U.S. Dept. Labor & Nat. Insts. Health, 60- AAAS; Psychol. Asn. Psychometrics; personnel, industrial and business psychology; motivation; organizational psychology. Publ: Factorial analysis of Thurstones primary mental abilities tests; Factorial analysis of Thurstones seven primary mental abilities; Mac Quarrie test of mechanical ability. Address: 4302 W. Thornapple St, Chevy Chase, Md. 20015.

GOODMAN, PROF. CHARLES S(CHAFFNER), b. Detroit, Mich, Apr. 5, 16; m. 43; c. 2. ECONOMICS. B.S, California, Los Angeles, 38, M.A, 40; Ph.D. (bus. admin), Michigan, 48. Lectr, PENNSYLVANIA, 46-48, asst. prof, 48-53, assoc. prof. MKT, WHARTON SCH, 53-57, PROF, 57- U.S.N.R, 42-46, Comdr. Econ. Asn; Mkt. Asn; Inst. Mgt. Sci. Marketing; distribution channels for industrial products, especially building materials; economics of wholesale distribution; enterprise competition; food purchasing practices and prices paid by the poor; theories of institutional change. Publ: Co-auth, The supply-support requirements of non-residential construction & Adaptation to markets in the distribution of building materials, Producers' Coun, Inc, 63; auth, Do the poor pay more, J. Mkt, 68. Address: General Washington Rd, Wayne, Pa. 19087.

GOODMAN, DR. ELLIOT R(AYMOND), b. Indianapolis, Ind, Sept. 3, 23; m. 47; c. 3. INTERNATIONAL RELATIONS. A.B, Dartmouth Col, 48; cert. Russian Inst. & M.A, Columbia, 51, Ph.D, 57; hon. A.M, Brown, 60. Teaching intern, POLIT. SCI, BROWN, 55-56, instr, 56-58, asst. prof, 58-60, ASSOC. PROF, 60- Guggenheim & NATO Res. fels, 62-63. U.S.A, 43-46, Sgt. Polit. Sci. Asn. Communist ideology and soviet foreign policy; prospects of political integration in the Atlantic community. Publ: Soviet design for a world state; Cry of national liberation, Int. Orgn; De Gaulle's NATO policy in perspective, Orbis, fall 66. Address: Dept. of Political Science, Brown University, Providence, R.I. 02912.

GOODMAN, PROF. GEORGE HERMAN, b. Marion, Va, Feb. 23, 26; m. 50; c. 4. SOCIOLOGY. A.B, Emory & Henry Col, 51; B.D, Drew, 55; A.M, East Tenn. State, 61. Instr. SOCIOL, Tennessee, 63-65; ASSOC. PROF. & CHMN. DEPT, CUMBERLAND COL, 65- Sociol. Asn. Gerontology; community; social organization; deviant behavior; family. Address: Dept. of Sociology, Cumberland College, Williamsburg, Ky. 40769.

GOODMAN, PROF. I(SAAC) BERNARD, b. Toronto, Ont, July 30, 23; nat; m. 46; c. 3. ECONOMICS. B.Com, Toronto, 45; fel, California, 47-48, Ph.D.(econ), 50. Instr. econ, Oregon, 48, 49; assoc. bus. admin, California, 49-50; economist, Int. Monetary Fund, 50-52; vis. lectr. ECON, Wisconsin, 52-54; asst. prof, WAYNE STATE, 54-59, assoc. prof, 59-65, PROF, 65- Econ. Asn; Can. Polit. Sci. Asn. International trade and finance. Publ: Industrial materials in Canadian-American relations; Price of gold and inter-national liquidity, J. Finance; Two dependent economies: Canada and Australia, Can. Inst. Int. Affairs, 64. Address: Dept. of Economics, Wayne State University, Detroit, Mich. 48202.

GOODMAN, DR. JAY S(ELWYN), b. St. Louis, Mo, Jan. 16, 40; m. 63. POLITICAL SCIENCE. B.A, Beloit Col, 61; Wilson fel. & M.A, Stanford, 63; Wilson fel. & Ph.D, Brown, 66. From instr. to ASST. PROF. GOVT. & CHMN. DEPT, WHEATON COL.(MASS), 65- Res. assoc, dept. polit. sci, Brown, 67-Polit. Sci. Asn. Comparative study of state political processes, especially state constitutional conventions. Publ: Labor and the Democrats in Rhode Island, 1952-1962, Brown, 12/67; Labor representation in Rhode Island: a note on legislative research, Am. Polit. Sci. Rev, 6/67. Address: 33 Phillips St, Providence, R.I. 02906.

GOODMAN, DR. JOHN THOMAS, b. Parry Sound, Ont, Apr. 1, 35; m. 61; c. 1. PSYCHOLOGY. B.A, Mich. State, 60, M.A, 62, Ph.D.(clin. psychol), 65. Psychol. trainee, Mass. Ment. Health Center, 63-64; ASST. PROF. CLIN. PSYCHOL, YALE, 66- U.S. Pub. Health Serv. fel, med. center, Colorado, 65-66. Am. Psychol. Asn; Can. Psychol. Asn. Psychotherapy; psychodiagnostic testing. Publ: Psychology, In: Encyclop. Britannica Book of Year, 67. Address: Dept. of Psychiatry, Yale University, 34 Park St, New Haven, Conn. 06519.

GOODMAN, PROF. LEO A, b. New York, N.Y, Aug. 7, 28. MATHEMATICAL STATISTICS, SOCIOLOGY. A.B, Syracuse, 48; Soc. Sci. Res. Coun. fel, Princeton, 50, M.A. & Ph.D.(math, math. statist), 50. Asst. math. statist, Princeton, 48-49; asst. prof. STATIST. & SOCIOL, CHICAGO, 50-53, assoc. prof, 53-55, PROF, 55- Fulbright fel. & Soc. Sci. Res. Coun. hon. fel, Cambridge, 53-54; Nat. Sci. Found. sr. fel. & Guggenheim fel, Cambridge & London Sch. Econ, 59-60; vis. prof. math. statist. & sociol, Columbia, 60-61. Mem. cmt. statist, div. math, Nat. Acad. Sci-Nat. Res. Coun, 61-64, chmn, 63-64. MacLaren advert. res. award, Can. Advert. Res. Found, 66. Fel. AAAS; fel. Am. Statist. Asn; fel. Sociol. Asn; Math. Soc; Economet. Soc; fel. Inst. Math. Statist; Biomet. Soc; fel. Royal Statist. Soc. Applied statistics; general research methods; mathematical sociology; demography. Publ: On some statistical tests for M-th order Markov chains, Ann. Math. Statist; Some alternatives to ecological correlation, Am. J. Sociol; Simple methods for analyzing three-factor interaction in contigency tables, J. Am. Statist. Asn, 64. Address: 1126 E. 59th St, Chicago, Ill. 60637.

GOODMAN, DR. LEONARD HAROLD, b. New Haven, Conn, Sept. 4, 25; m. 47; c. 2. SOCIOLOGY. B.A, Connecticut, 49; A.M, Columbia, 52, Ph.D.(sociol), 62. Instr. sociol, Delaware, 52-55; assoc. prof, State Univ. N.Y. Col. Cortland, 55-62; SR. RES. ASSOC. SOC. RES, BUR. SOC. SCI. RES, 62- U.S.A, 43-44. Sociol. Asn. Sociology of occupations; kinship and social mobility; poverty and dependency. Publ: Ed, Economic progress and social welfare, Columbia, 66. Address: Bureau of Social Science Research, 1200 17th St. N.W, Washington, D.C. 20036.

GOODMAN, PROF. MARJORIE S(MITH), b. Caledonia, Ohio, Dec. 19, 16; m. 51. GEOGRAPHY. B.S, Bowling Green State Univ, 43; Maxwell Sch. Citizenship fel, Syracuse, 45-46, M.A, 47; fel, Northwestern, 50-51, Ph.D. (geog), 54. U.S. Govt, 51-53; graphic design supvr, Detroit Metrop. Area Traffic Study, 54-55; from asst. prof. to assoc. prof. GEOG, DETROIT, 55-64, PROF, 64-, CHMN. DEPT, 55- Hon. prof, Karnatak Univ, India, 61-62. Asn. Am. Geog; Nat. Coun. Geog. Ed; Soc. Woman Geog. Aerial photo interpretation; problems of industrial and expressway location; visuals for teaching geography, such as maps, film strips and movies. Publ: Exercises in physical geography, Wayne State, 67; A technique for the identification of farm crops on aerial photographs, 59 & Criteria for the identification of types of farming on aerial photographs, 64, Photogrammetric Eng. Address: Dept. of Geography, University of Detroit, Detroit, Mich. 48221.

GOODMAN, DR. MARY ELLEN, b. Los Angeles, Calif, Aug. 8, 11; m. 33; c. 2. CULTURAL ANTHROPOLOGY. B.Ed, California, 32; M.A, Radcliffe Col, 43; Am. Asn. Univ. Women fel, Harvard, 43-44, Ph.D.(anthrop), 46. Instr. sociol. & anthrop, Wellesley Col, 46-48, asst. prof, 48-54; Fulbright res. scholar, Japan, 54-55; dir. early childhood studies, Tufts, 57; spec. asst. to chief economist, U.S. Pub. Housing Admin, 57-58; coordinator conf. studies, White House Conf. Children & Youth, 58-59, tech. consult, 59-60; consult. anthropologist, 60-62; assoc. prof. psychol, Houston, 62-64; PROF. ANTHROP. & SOCIOL, RICE, 64-, res. grant-in-aid, center study soc. change & econ. develop, 66-68. Res. grants, Wenner-Gren Found, 47-48; Nat. Insts. Health, 57; Cabot Fund, 57-58. Vis. assoc. prof, Houston, 61-62. Fel. Anthrop. Asn; fel. Sociol. Asn; Ethnol. Soc; Soc. Res. Child Develop. Social and citizenship values, attitudes, concepts and aspiration in Japanese and American children; ethnography of urban poverty area; persons of Mexican ancestry in a large city. Publ: Race awareness in young children; The individual and culture, Dorsey, 67; weekly column, Houston Post. Address: 2701 Bellefontaine, Houston, Tex. 77025.

GOODMAN, DR. MORRIS, Psychol, see 10th ed, Soc. & Behav. Vols.

GOODMAN, DR. NORMAN, b. New York, N.Y, Feb. 19, 34; m. 54; c. 3. SOCIOLOGY. B.A, Brooklyn Col, 55; M.A, N.Y. Univ, 61, Ph.D.(sociol), 63. Soc. investr, Dept. Welfare, New York, 57-58; res. asst, Asn. for Aid Crippled Children, 58-61; instr. SOCIOL, teachers col, Columbia, 61-62; lectr, Queens Col.(N.Y), 62-63, asst. prof, 63-64; STATE UNIV. N.Y. STONY BROOK, 64-68, ASSOC. PROF, 68- U.S.A, 55-56. Sociol. Asn; Psychol. Asn; Soc. Res. Child Develop; Nat. Coun. Family Rel. Personality as self-other systems; adolescent personality and behavior; communication processes in courtship and marriage. Publ: Co-auth, Personality and decision processes, Stanford, 62; Variant reactions to physical disability, Am. Sociol. Rev, 63; auth, Adolescent norms and behavior: organization and conformity, Merrill-Palmer Quart, 68. Address: Dept. of Sociology, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

GOODMAN, PROF. OSCAR R, b. Chicago, Ill, July 25, 22. BUSINESS ADMINISTRATION. LL.B. & Ph.D.(econ), Wisconsin, 52. Instr. commerce, Wisconsin, 48-52; assoc. prof. bus. admin, Washington State, 53-56; California, 56-58; FINANCE, Northwestern, 58-66; PROF. ROOSEVELT, 66- Lectr, center mgt. studies, Univ. Geneva, 63; vis. prof, grad. sch. bus, Univ. Michigan, 66. Econ. consult, antitrust div, U.S. Dept. Justice, 61; house banking & currency cmt, U.S. Cong, 63. Econ. Asn; Finance Asn; Mkt. Asn; Bar Asn. Finance; insurance; marketing; competition and mergers; valuation; regulation of financial institutions. Publ: Sales forecasting; Capital structure, Encyclop. Britannica, 62; Bank mergers, Commercial & Financial Chronicle, 6/67. Address: Dept. of Finance, Roosevelt University, 430 S. Michigan Ave, Chicago, Ill. 60605.

GOODMAN, DR. PAUL WERSHUB, b. New York, N.Y, Apr. 28, 19; m. 49; c. 2. SOCIOLOGY, EDUCATION. A.B, Syracuse, 43, M.S, 49; Ph.D.(sociol), Colorado, 67. Teacher, high schs, N.Y, 44-46, 49-50 & Tex, 50-54; ed. adv, U.S. Mil. Govt, Korea, 47-48; William Beaumont Gen. Hosp, El Paso, Tex, 54-58; instr. SOCIOL, Texas, El Paso, 58-63; admin. asst, Colorado, 63-66; ASST. PROF, TEXAS, EL PASO, 66- Vis. prof, Hofstra, summer, 67. Sociol. Asn. Comparison of factors affecting high school and rural dropouts; sociology of education. Publ: Co-auth, The child in family, school and community, Univ. Colorado Exten. Div, 64 & 65; auth, The need for a community fluoridation report form, Rocky Mt. Soc. Sci. J, 10/65 & Social research: a victim of culture lag, Clearing House, 68. Address: Dept. of Sociology, University of Texas at El Paso, El Paso, Tex. 79999.

GOODMAN, PROF. ROBERT J(OSEPH), b. Gwinn, Mich, July 31, 18. GEOGRAPHY. S.B, Chicago, 40, S.M, 41; Ph.D.(geog), Northwestern, 48. Asst. map librn, Chicago, 37-41; weather observer, U.S. Weather Bur, Ill, 40-41; chief map compilation div, U.S. Army Map Serv, 41-42; res. geogr, U.S. State Dept, Wash, D.C, 45; U.S. War Dept, 46; asst. geog, Northwestern, 46-48; from asst. prof. to PROF. GEOG, WAYNE STATE, 48- Fulbright lectr, Karnatak Univ, India, 61-62. U.S.A, 42-45. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Audio-visual techniques; urban and settlement geography; cartography. Publ: French explorations of the Great Lakes, Wayne State, 67; co-auth, Pictures in teaching: moving and still, Nat. Coun. Geog. Ed, 67. Address: Dept. of Geography, Wayne State University, Detroit, Mich. 48202.

GOODMAN, DR. ROBERT W(ILLIAM), Psychol, see 10th ed, Soc. & Behav. Vols.

GOODMAN, ROE, b. Bronson, Kans, Nov. 8, 07; m. 35; c. 2. MATHEMATICS, STATISTICS. A.B, Friends, 31; M.S, Iowa State, 44. Agr. statistician crop & livestock estimates, agr. mkt. serv, U.S. Dept. Agr, 35-44; sampling statistician sample surv. & agr. census, off. statist. standards, U.S. Bur. Census, 44-46; head sampling sect. sample surv, surv. res. center, Michigan, 46-51; statist. consult. sample surv. & censuses, statist. offs, UN & Food & Agr. Orgn, UN, in Thailand, Jamaica & Chile, 51-57; math. statistician & statist. consult, Int. Statist. Progs, Off. & Statist. Res. Div, U.S. Bur. Census, 57-66; REGIONAL SAMPLING ADV, ECON. CMN. LATIN AM, UN, 66-AAAS; Statist. Asn; Inst. Math. Statist. Problems of application of probability sampling to diverse situations in many countries; non-sampling errors in censuses and surveys; advanced sampling techniques. Publ: Co-auth, Controlled selection: a technique in probability sampling, J. Am. Statist. Asn; El muestreo y el censo agricola ganadero de Chile, Estadistica.

Address: Statistical Division, Economic Commission for Latin America, Vitacura, Santiago, Chile.

GOODMAN, DR. SEYMOUR S, b. New York, N.Y, May 14, 31; m. 63; c. 1. ECONOMICS. B.B.A, City Col. New York, 54; A.M, Brown, 56; Ph.D.(polit. econ), Hopkins, 59. Asst. prof. ECON, TULANE, 59-66, ASSOC. PROF, 66- Vis. assoc. prof, Istanbul, 66-67. Econ. Asn. Size distributions of personal income; trade relations in the European economic community. Publ: Co-auth, Postwar cyclical fluctuations in income and employment: Southeast and United States, South. Econ. J, 4/65; auth, State and regional estimates of upper group income shares, West. Econ. J, 12/67; Three essays on trade and development, Istanbul Univ, 68. Address: Dept. of Economics, Tulane University, New Orleans, La. 70118.

GOODMAN, SEYMOUR S(ETH), b. Springfield, Mass, Aug. 13, 18; m. 52; c. 3. ECONOMICS. B.A, Oberlin Col, 42; American Univ, 46-55. Economist, Off. Price Admin, 46-47; Civil Aeronaut. Bd, 47-48; U.S. Dept. Commerce, 48-52; DEPT. STATE, 52-56, U.S. FOR. SERV, 56-58, econ. officer, Am. Embassy, Dublin, Ireland, 58-60, Am. consul, Belfast, North Ireland, 60-64, INT. ECONOMIST, 64- U.S.A.A.F, 42-46, Lt. Econ. Asn. International economics. Address: U.S. State Dept, 2201 C St. N.W, Washington, D.C. 20520.

GOODMAN, PROF. WILLIAM, b. Silver City, Utah, Jan. 23, 15; m. 67. POLITICAL SCIENCE. B.S, Brigham Young, 36; M.A, Southern California, 38; M.A, California, Los Angeles, 48; Ph.D.(polit. sci), Ohio State, 50. Asst. prof. polit. sci, Tennessee, 50-53, assoc. prof, 53-57, prof, 57-61; prof. & chmn. dept, Rhode Island, 61-62; govt, Southern Illinois, 62-67; PROF. POLIT. SCI, MISSOURI, ST. LOUIS, 67- Prof. govt, American Univ. Beirut, 67-68. Consult, Civil Rights Cmn, Wash, D.C, 59. American political parties and legislatures. Publ: The two-party system in the United States; Inherited domain, political parties in Tennessee. Address: Dept. of Political Science, University of Missouri, St. Louis, Mo. 63121.

GOODMAN-MALAMUTH, DR. LEO, b. Los Angeles, Calif, Feb. 23, 24; m. 54; c. 1. PSYCHOLOGY, SPEECH PATHOLOGY. A.B, Southern California, 47, A.M, 48, Ph.D.(speech path), 56. Instr. speech path, California, Santa Barbara, 49-51, commun, Far East Prog, Berkeley, 51-54; speech, Southern California, 54-56; PROF. SPEECH PATH, CALIF. STATE COL. LONG BEACH, 56- Voc. Rehab. Admin. study grant, 67. U.S.A.A.F, 42-44. AAAS; Asn. Ment. Deficiency; Speech & Hearing Asn. Stuttering; language acquisition and pathologies. Address: Speech & Hearing Clinic, California State College at Long Beach, Long Beach, Calif. 90801.

GOODNOW, PROF. HENRY F(RANK), b. Ft. Smith, Ark, Dec. 13, 17; m. 46; c. 1. POLITICAL SCIENCE. B.A, Amherst Col, 39; M.A, Chicago, 41; Ph.D.(polit. sci), Columbia, 60. Asst. city mgr, Pontiac, Mich, 46-48; city mgr, Keene, N.H, 48-51; planning consult, State of N.H, 52; lectr, Hunter Col, 53; supvr. munic. asst, inst. local & state govt, Pennsylvania, 53-54, pub. admin. adv, inst. pub. & bus. admin, Univ. Karachi, Pakistan, 54-57; asst. Human Rel. Area Files, Yale, 57-58; asst. prof. POLIT. SCI, COLORADO, 58-63, assoc. prof, 63-67, PROF, 67-, chmn. dept, 63-65. Vis. prof. & scholar, Center for South Asian Studies, California, Berkeley, 65-66; chmn, Boulder City Planning Bd, 62-65. U.S.A, 42-46. Soc. Pub. Admin; Int. City Mgr. Asn; Polit. Sci. Asn. Public, comparative and municipal administration; bureaucracies of South Asia; governmental planning. Publ: Civil service of Pakistan: bureaucracy in a new nation, Yale, 64. Address: 855 12th St. Boulder, Colo. 80302.

GOODNOW, PROF. JACQUELINE J(ARRETT), Psychol, see 10th ed, Soc. & Behav. Vols.

GOODNOW, DR. ROBERT E(LMER), b. Lakewood, Ohio, Oct. 7, 22; m. 51; c. 2. PSYCHOLOGY. A.B, Kenyon Col, 46; M.A, Harvard, 50, Ph.D, 54. SR. PSYCHOLOGIST, U.S. Govt, 54-58; PSYCHOL. ASSESSMENT ASSOCS, 58- Lectr, For. Serv. Inst; res. fel, Human Ecol. Fund, 59-61. U.S.N, 43-45. Psychol. Asn. Social relations; experimental psychology; national character studies; personality assessment in cross-cultural milieus. Address: 4301 Connecticut Ave. N.W, Washington, D.C. 20008.

GOODPASTER, LT. GEN. ANDREW J(ACKSON), U.S.A, b. Granite City, Ill, Feb. 12, 15; m. 39; c. 2. POLITICAL SCIENCE. B.S, U.S. Mil. Acad, 39; M.S.E. & M.A, Princeton, 49, Ph.D.(polit. sci, int. rels), 50; hon. LL.D, McKendree Col, 67. U.S. ARMY, 39-, mem. staff, supreme hqs, Allied Powers Europe, NATO, 50-54, staff secy, President, 54-60, comdr, Eighth Infantry Div, 61-62, asst. to chmn, joint chiefs of staff, 62-66, dir, 66-67, COMMANDANT, NAT. WAR COL, 67- Coun. For. Rels. Technology and international relations; military and security policy; organizational and decision-making theory. Address: National War College, Ft. McNair, Washington, D.C. 20315.

GOODRICH, PROF. CARTER, b. Plainfield, N.J, May 10, 97; m. 21; c. 3. ECONOMIC HISTORY. A.B, Amherst Col, 18, L.H.D, 58; Ph.D, Chicago, 21. Mem. fel, Amherst Col, 21-22, 23-24, instr. ECON, 22-23; asst. prof, Michigan, 24-27, assoc. prof, 27-29, prof, 29-31; COLUMBIA, 31-63, EMER. PROF, 63-, rep. from grad. sch. bus. to Univ. Buenos Aires, 61-62; MELLON PROF. HIST. & PROF. ECON, PITTSBURGH, 63- Soc. Sci. Res. Coun. fel, 27; dir. study pop. redistribution, Wharton Sch, Pennsylvania, 34-36; spec. asst. to Ambassador to Gt. Brit, 41; Hillman Found. lectr, Cornell, 55. Consult, Resettlement Admin, 36; Soc. Security Bd, 47; UN, 47- Mem. sci. cmt, Nat. Resources Cmt, 36-37; U.S. mem, governing body, Int. Labor Off, 38-45, chmn, 39-45. Mem. del. econ. depressions, League of Nations, 38-44; prog. officer, Resources Conf, UN, 49, rep. of Secy. Gen, Bolivia, 52-53, chief econ. surv. mission, Vietnam, 55-56. Econ. Asn.(v.pres, 48); Econ. Hist. Asn.(pres, 54-56); Philos, Soc; Acad. Polit. Sci; fel. Am. Acad. Migration and economic opportunity; economic development of new countries; role of government in American economic development. Publ: Co-auth, Migration and economic opportunity, Univ. Pennsylvania, 36; auth, Government promotion of American canals and railroads, Columbia, 60; ed, The government and the economy, 1783-1861, Bobbs, 67. Address: Dept. of History, University of Pittsburgh, Pittsburgh, Pa. 15213.

GOODRICH, PROF. D. WELLS, b. Brooklyn, N.Y, Feb. 18, 24; m. 67; c. 3. PSYCHIATRY. M.D, Harvard, 47; Washington Psychoanal. Inst, 53-63. Teaching fel. psychiat, Harvard, 49-50; instr. neuropsychiat, Washington (St. Louis), 51-52; psychiatrist, Nat. Inst. Ment. Health, 52-53, child res. br, 53-59, chief, 59-66; PROF. psychol. & psychiat, Michigan, 67; PSYCHIAT, ALBERT EINSTEIN COL. MED, 68- Instr, Wash. Psychoanal. Inst, 64-; mem. ment. health study sect, Nat. Inst. Ment. Health, 65-68. U.S.A, 43-46; U.S.P.H.S, 52-67, Med. Dir. Orthopsychiat. Asn; Soc. Res. Child Develop; Pub. Health Asn; Psychiat. Asn. Publ: Co-auth, Synopsis of contemporary psychiatry, Mosby, 3rd ed, 64; auth, Psychoanalytic speculations on a taxonomy of marriage, (in prep); co-auth, A comparison of social behavior in normal and hyperaggressive preadolescent boys, Child Develop, 32: 315-327. Address: Dept. of Psychiatry, Montefiore Hospital, 111 210th St, Bronx, N.Y. 10467.

GOODRICH, DEAN KENNETH P(AUL), b. Elkhorn, Wis, Sept. 28, 33; m. 54; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Oberlin Col, 55; Nat. Sci. Found. fel, Iowa, 57-59, M.A, 58, Ph.D.(exp. psychol), 59. Asst. psychol, Iowa, 55-57; instr, Pennsylvania, 59-60, asst. prof, 60-63; proj. assoc. primate lab, Wisconsin, 63-65, lectr, 64-65; assoc. prof. & chmn. dept, MACALESTER COL, 65-67, acting dean, 67, DEAN, 67- AAAS; Psychol. Asn; Psychonomic Soc. Experimental analysis of learning and motivational variables. Publ: Performance in different segments of an instrumental response chain as a function of reinforcement schedule, J. Exp. Psychol; Experimental analysis of response slope and latency as criteria for characterizing voluntary and nonvoluntary responses in eyeblink conditioning, Psychol. Monogr, 66. Address: Macalester College, St. Paul, Minn. 55101.

GOODRICH, PROF. LELAND M(ATTHEW), b. Lewiston, Maine, Sept. 1, 99; m. 28; c. 2. INTERNATIONAL LAW, POLITICS. A.B, Bowdoin Col, 20; A.M, Harvard, 21, Ph.D, 25; Brussels, 23-25. From asst. prof. to prof. polit. sci, Brown, 26-50; PROF. INT. ORGN. & ADMIN, COLUMBIA, 50- Prof, Fletcher Sch. Law & Diplomacy, 43-50. Dir, World Peace Found, 42-46. Polit. Sci. Asn; Soc. Int. Law; Am. Acad. Arts & Sci. Advisory opinions of the Permanent Court of International Justice; documents on American foreign relations. Publ: Korea, a study of U.S. policy in the United Nations; The United Nations and the maintenance of international peace and security, Brookings, 55; The United Nations, Crowell, 59. Address: School of International Affairs, Columbia University, New York, N.Y. 10027.

GOODRICH, DR. L(EROY) A(SHBEL), b. Durand, Wis, May 16, 05; m. 44. PSYCHOLOGY. B.S, Minnesota, 28, M.A, 40; Ph.D.(psychol), North Dakota, 50. Instr. psychol. & counsr, Duluth Jr. Col, 40-41; supvr. guid. & couns, State Dept. Ed, N.Dak, 42; sr. interviewer, employ. div, Sperry Gyroscope Co, Inc, 42-43; chief, couns. center, Vet. Admin, 46-49, 52-53; asst. prof. couns. psychol, Kent State, 50-52; chief, couns. psychol. serv, VET. ADMIN. HOSP, Knoxville, Iowa, 53-57, STAFF PSYCHOLOGIST, DOWNEY, ILL, 57- U.S.A.A.F, 43-46. Psychol. Asn; Personnel & Guid. Asn. Development of psychological instruments; development of test norms applicable to mental hospital populations. Address: Veterans Administration Hospital, Downey, Ill. 60064.

GOODRICH, ROBERT M(ILTON), b. Port Huron, Mich, Sept. 7, 95; m. 17; c. 4. POLITICAL SCIENCE. LL.B, Michigan, 17. Mem. staff, Bur. Govt. Res, Mich, 19-21; dir, Govt. Res. Bur, Minn, 22-32, R.I, 33-43; exec. dir, R.I. Pub. Expenditure Coun, 43-65; RETIRED. Lectr, Brown; surv. dir, N.Y. & N.J. U.S.A, 17-18. Polit. Sci. Asn; Govt. Res. Asn.(pres, 34-35). State and municipal government; public finance. Address: 76 Westminster St, Providence, R.I. 02903.

GOODSELL, DR. CHARLES T, b. Kalamazoo, Mich, July 23, 32; m. 59; c. 1. POLITICAL SCIENCE. A.B, Kalamazoo Col, 54; M.P.A, Harvard, 58, M.A, 59, Ph.D.(polit. sci), 61. Intern, U.S. Bur. Budget, summers, 57-59; asst. prof. pub. admin, Puerto Rico, 60-64; res. assoc, Princeton, 64-66; ASSOC. PROF. GOVT, SOUTHERN ILLINOIS, 66- Soc. Sci. Res. Coun. summer grant, Peru, 67. U.S.A, 54-56. Polit. Sci. Asn. Impact of private U.S. investment on political development in Peru; polity-economy interrelationships in the United States since World War II. Publ: Administration of a revolution, Harvard Univ. Press, 65, Spanish & Arabic eds, 67. Address: Dept. of Government, Southern Illinois University, Carbondale, Ill. 62901.

GOODSELL, DR. WYLIE D, b. Weston, Idaho, Dec. 16, 08; m. 32; c. 4. STATISTICS. B.S, Idaho, 33, M.S, 34; Minnesota, 36; Ph.D, Iowa State Col, 38. From head costs & returns, prod. econ. res. br, agr. res. serv. to ASST. CHIEF COSTS, INCOME & EFFICIENCY BR, FARM ECON. DIV, ECON. RES. SERV, U.S. DEPT. AGR. & LECTR, GRAD. SCH, 38- Lectr, Bogor Faculty, Univ. Indonesia, 55. Consult, Harvard, 39-41; UN Fisheries, Italy, 55. Mem, Agency Int. Develop. Missions, Argentina, 62, Morocco, 65 & spec. mission, Virgin Islands. Agr. Econ. Asn. Production economics; statistics and methodology; agricultural economics. Publ: Cost and utilization of power and labor on Iowa farms; Farm costs and returns, commercial farms; Crop production practices, labor, power and material requirements. Address: 2510 N. 24th St, Arlington, Va. 22207.

GOODSON, PROF. FELIX EMMETT, b. Model, Colo, Nov. 12, 22; m. 47; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Princeton, 49; M.A, Missouri, 52, Ph.D.(psychol), 54. Instr. PSYCHOL, Missouri, 52-54, asst, U.S. Air Force Proj, 52-53; DePAUW, 54-55, asst. prof, 55-58, assoc. prof, 58-64, PROF, 64- Instr, Christian Col, 52-54. U.S.A, 39-46. Psychol. Asn; Psychonomic Soc. Theory development; secondary motivation and reinforcement; effects of early environmental stimulation; variables which affect intersensory transfer. Address: Dept. of Psychology, DePauw University, Greencastle, Ind. 46135.

GOODSPEED, PROF. STEPHEN S(PENCER), b. Berkeley, Calif, Nov. 15, 15; m. 38; c. 1. POLITICAL SCIENCE. A.B, California, 37, Ph.D, 47. Instr. POLIT. SCI, CALIFORNIA, SANTA BARBARA, 46-49, asst. prof, 49-56, assoc. prof, 56-60, PROF. & V.CHANCELLOR STUDENT AFFAIRS, 60- U.S.N, 42-46, Lt. Polit. Sci. Asn; Pan Am. Inst. Geog. & Hist. International relations and organization; Latin American politics and government, especially Mexico. Publ: Nature and function of international organization; Role

of the chief executive in Mexico. Address: Office of the Chancellor, University of California, Santa Barbara, Calif. 93106.

GOODSTEIN, PROF. LEONARD D(AVID), b. New York, N.Y, Jan. 11, 27; m. 48; c. 2. PSYCHOLOGY. M.A, Columbia, 48, Ph.D.(psychol), 52. Instr. psychol, Hofstra Col, 48-51; from instr. PSYCHOL, Iowa & sr. clin. counsr, Univ. Counseling Serv, to prof. & dir, 51-64; PROF, CINCINNATI, 64- Psychol. intern, Hillside Hosp, 50. Consult, Ment. Health Inst, Mt. Pleasant, Iowa, 53-60; Vet. Admin, 55-; U.S. Peace Corps, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Personnel & Guid. Asn. Psychotherapy; personality dynamics; behavior theory. Publ: Behavior theoretical views of counseling, In: Theories of counseling, McGraw, 65; co-auth, Accreditation of graduate programs in psychology: an analysis, Am. Psychologist, 66 & The psychological services center: a paradigm for clinical training, Clin. Psychologist, 67. Address: Dept. of Psychology, University of Cincinnati, Cincinnati, Ohio 45221.

GOODSTEIN, DR. MARVIN E(LIAS), b. New York, N.Y, May 20, 27; m. 53; c. 2. ECONOMICS. B.S, N.Y. Univ, 50; South. Fel. Fund grant, Cornell, 56, Ph.D.(econ), 61. Fel. econ, Cornell, 50-54; asst. prof. econ, UNIV. OF THE SOUTH, 55-63, ASSOC. PROF. ECON, 63- Univ. counsr, resource develop. proj, South. Regional Ed. Bd, 67; Consult, U.S. Agency Int. Develop, Philippines, 67. U.S.A, 44-47. Econ. Asn; Econ. Hist. Asn. Determinants of government economic policy and inflation, unemployment and economic growth in historical and international perspective; regional economic development; development of less-developed countries. Publ: The pace and pattern of Philippine economic growth: 1938, 1948 and 1956, Southeast Asia Prog, Cornell Univ, 62; co-auth, Philippine rice needs to 1990: output and input requirements, U.S. Agency Int. Develop, Philippines, 67. Address: Dept. of Economics, University of the South, Sewanee, Tenn. 37375.

GOODWIN, PROF. ALBERT F(ILLIS), b. Schenectady, N.Y, July 7, 26. URBAN ECONOMICS. B.S, Syracuse, 51; M.B.A, N.Y. Univ, 55; St. Andrews, 62-64. Buyer, Calif-Tex. Oil Co, 51-56; economist, Rochester Tel. Co, 56-57; ASST. PROF. ECON, Grove City Col, 57-62; Pa. Mil. Col, 64-65; ST. LAWRENCE, 65- C.Eng, 44-46, Sgt. Econ. Asn; Acad. Polit. Sci; fel. Royal Econ. Soc. Epistemological problems of economic value theory; urban land utilization and appraisal. Address: 36 Park St, Canton, N.Y. 13617.

GOODWIN, DR. CRAUFURD DAVID WYCLIFFE, b. Montreal, Que, May 23, 34; m. 58. ECONOMICS. B.A, McGill, 55; scholar, Duke, 55, fels, 56-57, Ph.D.(econ), 58. Lectr. econ, Assumption, 58-59; vis. asst. prof. & exec. secy. commonwealth studies center, Duke, 59-60; hon. res. fel, Australian Nat. Univ, 60-61; asst. prof, York (Ont), 61-62; asst. prof. ECON, DUKE, 62-63, ASSOC. PROF, 63-, ASST. PROVOST, 64-, DIR. INT. STUDIES, 66-, fel, 60-61, secy, 63-66. Smuts vis. fel, Gonville & Caius Col, Cambridge, 67-68; Guggenheim fel, 67-68; summers, Can. Coun. grant-in-aid, 59; Duke African Studies Cmt. grant, 63. Econ. Asn; Econ. Hist. Asn; Can. Polit. Sci. Asn; Royal Econ. Soc. History of economic ideas, economic development & imperialist thought. Publ: Canadian economic thought: the political economy of a developing nation 1814-1914, 61, Economic enquiry in Australia & co-auth. & ed, A decade of the Commonwealth 1955-1964, 66, Duke. Address: Duke University, Durham, N.C. 27706.

GOODWIN, DR. DOROTHY CHENEY, b. Hartford, Conn, Sept. 2, 14. ECONOMICS. A.B, Smith Col, 37; Ph.D, Connecticut, 57. Statist. clerk & asst, U.S. Bur. Indian Affairs, 37-39; asst. agr. hist, bur. agr. econ, U.S. Dept. Agr, 39-42; econ. intel. officer Japan strategic raw materials, For. Econ. Admin, D.C. & India, 42-46; asst. chief claims div, reparations sect, gen. hqs, Supreme Commander Allied Powers, Japan, 47-48, agr. economist, nat. resources sect, 48-52; asst. agr. econ, CONNECTICUT, 52-55, instr. ECON, 57-61, asst. prof, 61-64, ASSOC. PROF, 64-, ASST. PROVOST & DIR. INSTNL. RES, 66- Res. assoc, State Legis. Gen. Assembly, Conn, 57. Econ. Asn; Agr. Econ. Asn; Planning Asn; Asn. Instnl. Res. State and local finance; metropolitan and regional problems; Japanese land tenure problems and agricultural economics; American agricultural history; social and economic problems of plains Indians. Publ: Ryukyu Islands: tenure practices and problems; Some approaches to the problem of how to distribute state aid to education, Spec. Bull. Inst. Pub. Serv, Univ. Conn; Fiscal needs and capacity of Connecticut towns, J. Farm Econ. Address: Bureau of Institutional Research, University of Connecticut, Storrs, Conn. 06268.

GOODWIN, PROF. FRANK, b. Thomasville, Ga, Aug. 3, 07; m. 32. MARKETING. A.B, Vanderbilt, 29, Julius Rosenwald Fund scholar, 29-31, A.M, 30; Ph.D, Pennsylvania, 43. From instr. to prof. soc. sci. & chmn. div, Wash. Col, 31-46, asst. to pres, 40-46, adv. vet, 46; assoc. prof. MKT, FLORIDA, 47-49, prof, 49-66, EMER. PROF, 66- Found. Econ. Ed. scholar, 50. U.S.N, 43-46. Mkt. Asn; Adult Ed. Asn; Acad. Polit. & Soc. Sci. Eastern shore of Maryland; consultant sales and sales management; public relations; executive training. Address: 1105 N.W. 14th Ave, Gainesville, Fla. 32601.

GOODWIN, DR. GEORGE, JR, b. Hartford, Conn, June 29, 21; m. 51; c. 5. POLITICAL SCIENCE. A.B, Williams Col, 43; Ph.D, Harvard, 55. Instr. govt, Massachusetts, Amherst, 47-50, asst. prof, 51-57, assoc. prof, 57-62; chmn. dept. polit. sci, Rhode Island, 62-65; CHMN. DEPT. POLIT, MASSACHUSETTS, BOSTON, 65- U.S.A.A.F, 43-46, Sgt. Polit. Sci. Asn. American government especially political parties and the legislative process on both the national and state levels. Publ: Inter-municipal relation in Massachusetts; The seniority system in Congress, Am. Polit. Sci. Rev; co-auth, Massachusetts politics. Address: Dept. of Politics, University of Massachusetts, 100 Arlington St, Boston, Mass. 02165.

GOODWIN, JAMES PATRICK, S.J, b. Butte, Mont, Sept. 24, 13. SOCIOLOGY. B.A, Gonzaga, 37, M.A, 38; St. Louis, 45-47; M.A, Harvard, 50. Assoc. prof. SOCIOL. & head dept, Seattle, 50-63; assoc. prof, Mt. St. Michaels Sem, 63-66; ASSOC. PROF, SEATTLE, 66- Sociol. Asn. Theory; comparative social institutions; juvenile delinquency. Publ: Chaps. in: Introductory sociology & Social order. Address: Dept. of Sociology, Seattle University, Seattle, Wash. 98122.

GOODWIN, DR. PHILLIP A(DAMS), b. Redlands, Calif, Dec. 21, 18; div. PSYCHOLOGY. B.A, Redlands, 40; M.A, Southern California, 45, Ph.D. (psychol), 49. Chief psychol, Wadsworth Gen. Med. & Surg. Hosp, 49-55; asst. clin. prof. psychol, California, Los Angeles, 53-55, instr, inst. indust. rel, 55-57; CONSULT. PSYCHOLOGIST, SNOWDEN, SULLIVAN & GOODWIN, 61- Consult, Glaser, Snowden & Assocs, 56-61. Mem. bd. dirs, Am. Bd. Exam. Prfnl. Psychol, 60-64. U.S.A, 42-43. Psychol. Asn. Industrial psychology; psychotherapy. Address: 2540 Huntington Dr, San Marino, Calif. 91108.

GOODWIN, DR. R(ICHARD) M(URPHEY), b. New Castle, Ind, Feb. 24, 13; m. 37. ECONOMICS. B.Litt, Oxford, 37; Ph.D.(econ), Harvard, 41. Instr. physics, Harvard, 42-45, asst. prof. ECON, 45-50; lectr. & fel, CAMBRIDGE, 52-67, READER, 67- Fel. Economet. Soc. Dynamic economics; business cycles. Address: 1 Belvoir Terrace, Cambridge, Eng.

GOODWIN, DR. WILLIAM, b. West Orange, N.J, Oct. 8, 18; m. 48; c. 2. GEOGRAPHY. A.B, Columbia, 46, A.M, 48, Ph.D, 57. Lectr. GEOG, Barnard Col, Columbia, 47-50, instr, 51-54, teachers col, 54-55, grad. sch. bus, 55-56; asst. prof, Rutgers, 56-60; WISCONSIN, MILWAUKEE, 60-64, ASSOC. PROF, 64- U.S.A.A.F, 42-46, Capt. AAAS; Asn. Am. Geog; Am. Geog. Soc; Regional Sci. Asn. Geography of manufacturing and transportation; urban geography; retail store location. Address: 329 E. Lake View Ave, Milwaukee, Wis. 53217.

GOODWIN, DR. WILLIAM LAWRENCE, b. Galesburg, Ill, Oct. 21, 35; m. 58; c. 4. EDUCATIONAL PSYCHOLOGY. B.S, Nebraska, 57; M.Ed, Illinois, 61; Ph.D.(ed. psychol), Wisconsin, 65. Teacher, high sch, Wis, 61-62; res. asst. ED, Wisconsin, 62-65, res. assoc, res. & develop. center, 65-66; ASST. PROF, BUCKNELL, 66- Ed. Res. Asn; Nat. Coun. Measurement in Ed; Nat. Soc. Study Ed. U.S.M.C, 57-60, Res, 60-, Maj. Educational research and measurement; learning. Publ: Co-auth, Learning and human abilities: educational psychology, Harper, 66. Address: Dept. of Education, Bucknell University, Lewisburg, Pa. 17837.

GOODWIN, DR. WILLIAM N(OEL), b. Ireland, Dec. 29, 21; nat; m. 44; c. 3. COUNSELING & INDUSTRIAL PSYCHOLOGY. B.S, Springfield Col, 49, M.S, 52; Ph.D.(ed), Connecticut, 61. Voc. & ed. counsr, Voc. Serv. Center, New York, 49-54; dir. counseling psychol, Greater Hartford YMCA Counseling Serv, Conn, 54-61; supvr. testing & placement, Stanley Works, 61-64; DIR. COUNSELING, GREATER HARTFORD YMCA COUNSELING SERV, 64- Consult, Nat. Defense Ed. Act. Guid. Insts, Univ. Connecticut, 59-61, sch. rehab. psychol. of handicapped, 60-, inst. on counseling in higher ed, Springfield Col, 67. U.S.A.A.F, 43-45. Psychol. Asn. Counseling; training; personnel selection; group work. Publ: Skills in counseling needed by nonprofessional workers & Descriptive study of counseling in selected agencies in the U.S, Counseling. Address: 315 Pearl St, Hartford, Conn. 06103.

GOODWIN, DR. W(ILLIAM) RICHARD, b. Pendleton, Ore, June 21, 24; m; c. 1. PSYCHOLOGY. B.A, Reed Col, 50, M.A, 51; Ph.D, Stanford, 55. Asst. psychol, Stanford, 51-55; human factors scientist, Syst. Develop. Corp, 55-58, from tech. asst. to mgt. asst, strategic air command control syst. dept, 58-60, dept. mgr, 60-65; OWNER, W.R. GOODWIN & CO, 65-; V.PRES, W.C. STOLK & ASSOCS, 67- Prof. systs. mgt, grad. sch. bus, N.Y. Univ, 65- Consult, Corn Prod. Co, N.Y, 65-67; Panama Ins. Co, 67- Mem. bd. dirs, Data Trends, Inc, 65-; Diversified Cent. Am. Industs, Inc, 68- U.S.A, 43-47, Sgt. Psychol. Asn; Rocket Soc. Address: 10 Soder Rd, North Caldwell, N.J. 07006.

GOODY, PROF. GEORGE H(ENRY), b. Oakland, Calif, Mar. 6, 10; m. 35; c. 2. PSYCHOLOGY. A.B, California, 30, A.M, 37; Ph.D.(ed. psychol), Southern California, 51. Teacher & v.prin, pub. schs, 32-41, 47-51; INSTR. & COUNSR. PSYCHOL, LOS ANGELES CITY JR. COL. DIST, 51-; RES. SPECIALIST PSYCHOL. & ED, LOS ANGELES CITY SCH. DISTS, CALIF, 57- Asst. prof, Los Angeles State Col, 49-51. Private consult, 54- U.S.A.R, 28-41; U.S.A.F, 41-47, Res, 47-60, Lt. Col. Psychol. Asn; Asn. Ed. Data Systs. Educational research; mental testing and psychotherapy; electroencephalography; military human factors research. Publ: Educational data processing manual, Los Angeles City Schs, 66; Future manpower requirements for the Air Force research and development command; Television in the Los Angeles city schools. Address: 12311 Chandler Blvd, North Hollywood, Calif. 91607.

GOOLISHIAN, PROF. HAROLD A(RMEN), b. Lowell, Mass. May 5, 24; m. 48; c. 3. CLINICAL PSYCHOLOGY. B.A, Boston, 48; M.A, Mich. State Col, 50; Ph.D.(psychol), Houston, 53. Instr. neurol. & psychiat, MED. BR, TEXAS, 52, asst. prof. neurol. & psychiat, 53-60, assoc. prof, 60-63, PROF. PSYCHOL, 63-, CHIEF PSYCHOLOGIST, DIV. PSYCHOL, 60-; CLIN. PROF. PSYCHOL, HOUSTON, 66-, asst. prof, 56-60, assoc. prof, 60-66. Consult. psychologist, youth develop. proj, med. br, Texas, 52-55, dir, 55-60, consult, student health serv, 56-59; Vet. Admin. Hosp, Temple, Tex, 65- Attend. psychologist, John Sealy Hosp, 56- U.S.M.C, 41-45; Med.Serv.C.Res, 46-, Comdr. Psychol. Asn; fel. Soc. Proj. Tech; Orthopsychiat. Asn; Acad. Psychother; Rehab. Asn. Family diagnosis and psychotherapy; determinants of personality. Publ: Co-auth, Multiple impact psychotherapy with families, Blackiston, 64; auth, A brief psychotherapy program for adolescents, Am. J. Orthopsychiat, 61; co-auth, Adolescent maladjustment and family dynamics, Am. J. Psychiat, 63. Address: Dept. of Psychology, University of Texas Medical Branch, Galveston, Tex. 77550.

GOOLSBY, DR. THOMAS M(ORRIS), JR, b. Wetumpka, Ala, Apr. 3, 32. EDUCATIONAL PSYCHOLOGY, PSYCHOMETRICS. B.S, Alabama, 54; Huntingdon Col, 57-58; M.Ed, Auburn, 60; Ph.D.(ed. psychol, psychomet), Iowa, 63. Instr, high sch, Ala, 58-59; chem. & biol, Dept. Health, Ed. & Welfare, Aguadilla, P.R, 59-60; res. asst. psychomet, Iowa, 60-62; asst. prof. psychol, measurement & statist, Southern California, 62-64; res. & psychomet, Fla. State, 64-68, dir. univ. test serv, 65-68; ASSOC. PROF. ED. PSYCHOL. & RES. ASSOC. RES. & DEVELOP. CENTER ED. STIMULATION, GEORGIA, 68- Ford Found res. grant Nova Proj, Ft. Lauderdale, Fla, 64-66; Fed. summer res. sub-grant listening with Head Start, 66. Sig.C, U.S.A, 55-57, 1st Lt. AAAS; Psychol. Asn; Ed. Res. Asn; Acad. Polit. & Soc. Sci; Nat.

Soc. Study Ed; Nat. Coun. Measurement in Ed. Designing and researching achievement measures at all educational levels; basic research in early childhood education and psychology; cognitive learning research with culturally deprived; evaluation in legal education and bar admissions. Publ: The validity of a comprehensive college sophomore test battery for use in selection, placement and advisement, J. Ed. & Psychol. Measurement, 26: 977-983; Differentiating between measures of different outcomes in the social studies, J. Ed. Measurement, 3: 219-222 & Reading Res. Quart, 3: 243; A study of the criteria for legal education, J. Legal Ed, 20: 175-177. Address: Research & Development Center in Educational Stimulation, University of Georgia, Athens, Ga. 30601.

GOOR, CHARLES G, b. Brooklyn, N.Y, Sept. 12, 12; m. 35; c. 2. STATISTICS. B.S, Brooklyn Col, 34; George Washington, 36-37; American Univ, 39-42. Chief statist. serv. sect, U.S. R.R. Retirement Bd, 38-40; assoc. statistician, Fed. Security Agency, 40-42; chief shipping statist. sect, U.S. Bur. Census, 42-43; econ. statistician, Hqs, U.S. Army Air Force, 43-45; CHIEF, real property statist. br, War Assets Admin, 45-47; STATIST. DIV, INT. BANK RECONSTRUCT. & DEVELOP, 47- Statist. Asn; Opers. Res. Soc; Asn. Comput. Mach. Economic and financial statistics; data processing. Publ: Co-auth, Actuarial analysis of the operating life of B-29 aircraft engines, J. Am. Statist. Asn. Address: 3133 Patterson St. N.W, Washington, D.C. 20015.

GOOSTREE, PROF. ROBERT E(DWARD), b. Tenn, Sept. 23, 23; m. 55. LAW, POLITICAL SCIENCE. B.A, Southwestern at Memphis, 43; M.A, Iowa, 48, Ph.D.(polit. sci), 50; LL.B, American Univ, 62. Instr. polit. sci, Maryland, 51-53; asst. prof. govt. & pub. admin, AMERICAN UNIV, 53-56, assoc. prof, 56-60, prof, 60-63, acting dean sch. govt. & pub. admin, 62-63, PROF. LAW & GOVT, 63-, DIR. ADMISSIONS, LAW SCH, 67- Consult, John F. Kennedy Center Performing Arts, Wash, D.C, 66- U.S.A, 43-46. Polit. Sci. Asn. Constitutional, local government, and tort law. Address: Washington College of Law, American University, Washington, D.C. 20016.

GOOTZEIT, DR. JACK MICHAEL, b. New York, N.Y, Sept. 27, 24; m. 48; c. 2. BEHAVIORAL SCIENCES, REHABILITATION PSYCHOLOGY. B.S, N.Y. Univ, 54, M.A, 56, Ed.D.(human rels), 63. Therapeut. recreationist, inst. phys. med. & rehab, Am. Red Cross, 51-55; sr. phys. therapist, Montefiore Hosp, 55-56; phys. ther. adv, Vis. Nurse Serv, N.Y, 56-57; assoc. dir. rehab. counseling, sheltered workshop & training center, Westchester Asn. Retarded Children, 57-63; EXEC. DIR, INST. APPL. HUMAN DYNAMICS, 66- Lectr, U.S. Pub. Health Serv, 67; dir. rehab. progs, Asn. Help Retarded Children, 67; instr. phys. handicapped, Hunter Col, 68. Consult, off. facilities planning, State Dept. Ment. Hyg, N.Y, 65-67. Distinguished Serv. Award, N.Y. Chap. Nat. Rehab. Asn, 64; Dedicated Serv. Award, Am. Red Cross, 66; Queens Childrens Rehab. Serv, 67. A.U.S, 41-45. Acad. Psychother; Psychol. Asn; N.Y. Acad. Sci. Application of learning theory, operant and classic conditioning, and other behavior dynamics to the education of emotionally disturbed, brain injured and retarded. Publ: Affecting purposive activity, J. Rehab, 66; Affecting focus and attention, J. Therapeut. Recreation, 67; Situational therapy, J. Group Psychother, 67. Address: 1039 Elder Ave, Bronx, N.Y. 10472.

GORANSON, DR. LEONARD D, b. Joliet, Ill, Aug. 25, 12; m. 42; c. 3. GEOGRAPHY. B.A, Minnesota, Duluth, 49; B.D, Bethel Theol. Sem, 52; M.A, Iowa, 58, Ph.D.(geog), 66. Asst. prof. GEOG, South. State Col, 57-61; res. asst, Iowa, 61-62; asst. prof, WIS. STATE, EAU CLAIRE, 62-68, ASSOC. PROF, 68-, assoc. dir, Nat. Defense Ed. Act Summer Inst. Geog, 67 & dir, 68. U.S.A, 45-47. Asn. Am. Geog; Nat. Coun. Geog. Ed; Regional Sci. Asn. Urban geography and quantitative methods. Publ: The synthetic fiber industry in the United States, Ark. Acad. Sci, 58; The location and spatial arrangement of the United States beet sugar industry, Univ. Microfilms, 66. Address: Dept. of Geography, Wisconsin State University, Eau Claire, Wis. 54701.

GORDEN, DR. MORTON, b. Derby, Conn, May 19, 33; m. 54; c. 1. POLITICAL SOCIOLOGY. B.A, Wesleyan, 54; Paris, 55; M.A, Harvard, 57; Ph.D. (polit. sci), Mass. Inst. Tech, 63. Asst. center int. studies, Mass. Inst. Tech, 58-62, instr. humanities & hist, 60-62; head polit. sci. sect, Raytheon Co, 62-63; asst. prof. POLIT. SCI, Mass. Inst. Tech, 64-66; ASSOC. PROF, PENNSYLVANIA, 66- Polit. Sci. Asn; Sociol. Asn; Acad. Polit. & Soc. Sci. Attitude studies of political elites; applications of computers to problem solving and theory building in social sciences; comparative politics and conflict management. Publ: Co-auth, Europa and Atlantica: the new perspective of European leaders, M.I.T. Press, 68 & The setting for European arms control: political and strategic choices of European elites, J. Conflict Resolution, 12/65; auth, The burdens imposed on a policy planner using computer simulations, In: Proceedings Conference on Computers and the Policy-Making Community, Univ. California, (in press). Address: Room 102, 133 S. 36th St, Philadelphia, Pa. 19104.

GORDEN, PROF. RAYMOND L(OWELL), b. St. Louis, Mo, Feb. 21, 19; m. 49. SOCIOLOGY. M.A, Chicago, 49, Marshall Field fel, 52-53, Ph.D.(sociol), 54. Instr. sociol, North Dakota, 49-51; asst. field supvr, Nat. Opinion Res. Center, 51-52; from asst. prof. to assoc. prof, SOCIOL, ANTIOCH COL, 54-67, PROF, 67- Adminstr, Latin Am. Prog, Great Lakes Cols. Asn, 63-66; Fulbright-Hayes res. fel, 66-67; U.S. Off. Ed. contract & dir. int. team, Bogota, Colombia, 67-68. Consult, 53-55. Sociol. Asn. Social psychology; interviewing methods; sociology of international relations; cross-cultural comparisons relevant to barriers to cross-cultural communication; cultural barriers to the development of science and social science. Publ: Co-auth, Social profile of Metropolitan Dayton, Dayton Community Welfare Coun, 63; auth. Interaction between attitude and the definition of the situation in the expression of opinion, Am. Soc. Rev; Effect of attitude toward Russian on logical reasoning, J. Soc. Psychol. Address: 1302 Shawnee Dr, Yellow Springs, Ohio 45387.

GORDENKER, PROF. LEON, b. Detroit, Mich, Oct. 7, 23; m. 56; c. 3. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B, Michigan, 43; Fulbright grant, Paris, 51-52; M.A, Columbia, 54, Gilder fel. & Ph.D, 58. Ed, Assoc. Press, Mich, 43-44; spec. writer, Detroit Free Press, 44-45; info. officer, Nat. War Labor Bd, 45; info. & press officer, UN, 46-53; instr. great issues, Dartmouth Col, 56-58; asst. prof. POLIT, PRINCETON, 58-63, assoc. prof, 63-66, PROF, 66- Vis. asst. prof, Columbia, 61, vis. lectr, 67; faculty assoc, center int. studies, Princeton, 62-; Soc. Sci. Res. Coun. grant, 65-67. Consult, Off. Pub. Info, UN, 54-55, 61, Inst. Training & Res, 66. Polit. Sci. Asn. Politics and institutions of international organizations, especially the United Nations and associated agencies; collective security; propaganda; international relations and foreign policy, especially in western Europe & Africa. Publ: United Nations and the peaceful unification of Korea, Martinus Nijhoff, 59; The U.N. Secretary-General and the maintenance of peace, Columbia, 67; Policy making and secretariat influence in the U.N. General Assembly, Am. Polit. Sci. Rev. Address: 492 Riverside Dr, Princeton, N.J. 08540.

GORDER, LYLE, Geog, see 10th ed, Soc. & Behav. Vols.

GORDON, ANTOINETTE K(OSCHERAK), b. New York, N.Y, July 9, 91; wid; c. 1. ANTHROPOLOGY. M.A, Asia Inst, 51. ASSOC. ANTHROP, AM. MUS. NATURAL HIST, 31- Am. Coun. Learned Socs. grant. Anthrop. Asn; Ethnol. Soc; Oriental Soc; Asn. Asian Studies; Soc. Woman Geog. Far Eastern religions; iconography; Tibetan translations. Publ: Translator, The hundred thousand songs: selections from Milarepa Poet-Saint of Tibet; Tibetan religious art; Iconography of Tibetan Lamaism. Address: One Fifth Ave, New York, N.Y. 10003.

GORDON, BENJAMIN, b. Boston, Mass, June 20, 14; m. 49; c. 3. ECONOMICS. A.B, Harvard, 38; M.A, Chicago, 51. Economist, Cent. Intel. Agency, 52-58; STAFF ECONOMIST, SMALL BUS. CMT, U.S. SENATE SUBCMT. MONOPOLY, 58- U.S.A, 43-46, 51-52, 1st. Lt. Econ. Asn. Monopoly and antitrust problems; patents and government patent policies; economic and political aspects of space satellite communications; competitive problems and anti-competitive activities in the drug industry. Address: 2856 Davenport St. N.W, Washington, D.C. 20008.

GORDON, BERNARD, b. Chicago, Ill, May 26, 19. ECONOMICS, STATISTICS. A.B, Cent. YMCA Col, 41; M.A, Chicago, 48. Bus. economist, U.S. Bur. Labor Statist, 49-51; housing economist, Housing & Home Finance Agency, 52-53; anal. statistician, mil. subsistence supply agency, U.S. Dept. Army, 53-58; economist, dept. city planning, CITY OF CHICAGO, 58-66, DIR. STATIST. SERV, DEPT. URBAN RENEWAL, 66- U.S.A, 41-46, 1st Lt. Econ. Asn; Statist. Asn; Economet. Soc; Opers Res. Soc. Operations research; economic aspects of urban planning; organizing a management data center to provide current information on status of many activities involved in urban renewal project execution to top-echelon departmental management. Publ: Wartime federal reserve legislative, 1941-1946. Address: 2400 N. Lakeview Ave, Chicago, Ill. 60614.

GORDON, DR. BRUCE R(ONALD), b. Brooklyn, N.Y, Mar. 21, 28; m. 51; c. 3. CLINICAL PSYCHOLOGY. A.B, N.Y. Univ, 47; M.A, Southern California, 49, Ph.D.(clin. psychol), 53. Chief clin. psychol. sect, Ment. Hyg. Consult. Serv, Ark, 53-56; private practice psychol, 56- Clin. psychol. supvr, Vet. Admin. Hosp, Sepulveda, Calif, 56-58; res. psychologist, indust. rels. dept, California, Los Angeles, 58-59; co-dir, West. Personnel Consult, 58-60; assoc, Human Interaction Res. Inst, 62- Consult, Maryvale, Los Angeles Orphanage, Calif; Ed Glaser & Assocs, 61-; Los Angeles County Ment. Health Dept, 65- Psychol. Asn. Therapy, especially child-parent relationships; change and those factors that fascilitate or inhibit its acceptance; relationships between personality and perception; mental health. Publ: Co-auth, Utilization of applicable research and demonstration results, Human Interaction Res. Inst, 66. Address: 168 N. Kenter Ave, Los Angeles, Calif. 90049.

GORDON, PROF. B(URTON) LeROY, b. Asotin, Wash, Feb. 13, 20; m. 41; c. 4. GEOGRAPHY. A.B, San Francisco State Col, 42; Bowman fel, Hopkins, 53-54; Ph.D.(geog), California, 54. Asst. prof. GEOG, New Mexico, 55-60, assoc. prof. & chmn. dept, 60-65; PROF, SAN FRANCISCO STATE COL, 65- Exchange lectr, London, 62-63. Asn. Am. Geog; N.Y. Acad. Sci. Bio-geography; Europe; Latin America. Address: 113 David Way, Santa Cruz, Calif. 95060.

GORDON, DR. CHAD, b. Los Angeles, Calif, May 7, 35; m. 56; c. 3. SOCIOLOGY. B.S, California, Los Angeles 57, M.A, 62, Ph.D.(sociol), 63. Instr. SOCIOLOGY, HARVARD, 63-64, ASST. PROF, 64- Prin. investr, Metrop. Decision Making Proj, 64-65; res. assoc, Age Center New Eng, 64-; prin. investr, Personal Autonomy Proj, 66- U.S.A, 57-59, 1st Lt. Sociol. Asn; Asn. Pub. Opinion Res; Geront. Soc. Self-conceptions and presentation of self in social interaction, social science methodology; general theory in sociology. Publ: Co-auth, The self in social interaction, Wiley, 68; Systemic senses of self, Sociol. Inquiry, spring 68. Address: Dept. of Social Relations, Harvard University, Cambridge, Mass. 02138.

GORDON, CHESTER M(URRAY), b. Brooklyn, N.Y, Mar. 31, 18; m. 42; c. 2. STATISTICS, ECONOMICS. B.S, City Col. New York, 38, M.S, 43. Statistician housing, U.S. Bur. Census, 40-42; indust. specialist, War Prod. Bd, 42-43; indust. specialist, Civilian Prod. Admin, 46-47; chief statistician non-residential construct, Housing Expediter, 47-48; econ. statistician indust. mobilization planning, Atomic Energy Cmn, 48-51; econ. statistician, off. defense mobilization, Exec. Off. of President, 51-53; econ. statistician indust. mobilization planning, ATOMIC ENERGY CMN, 53-63, dep. assist. dir. logistics, 63-64, CHIEF PROCUREMENT ASSISTANCE & MOBILIZATION PLANNING BR. & DEFENSE COORDINATOR, 64- Mem. interagency emergency planning cmt. & interagency mat. adv. cmt, Exec. Off. of the President, interagency civil defense cmt, U.S. Dept. Defense & indust. eval. bd, U.S. Dept. Commerce, 64- Sig.C, U.S.A, 43-46. Statist. Asn. Industrial mobilization; construction. Address: 9209 Watson Rd, Silver Spring, Md. 20910.

GORDON, DR. DONALD A, b. Brooklyn, N.Y, Sept. 16, 18; m. 51; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Miami, 40; A.M, Columbia, 42, Ph.D. (psychol), 47. Asst. prof. psychol, Illinois, 46-51; proj. dir. personnel res. br, Adj. Gen. Off, 51-54; psychologist, Army Med. Res. Labs, 54-55; res.

assoc, vision res. labs, Michigan, 55-61; Sperry Gyroscope Co, N.Y, 61-63; RES. PSYCHOLOGIST, U.S. BUR. PUB. RD, 63- Mem. Nat. Acad. Sci-Hwy. Res. Bd. Rd. User Characteristics Cmt, 67- Psychol. Asn; Soc. Automotive Eng. Vision. Publ: Relation between the thresholds of form, motion and displacement in parafoveal and peripheral vision at a scotopic level of illumination, Am. J. Psychol; Static and dynamic visual fields in human space perception, J. Optical Soc. Am, 10/65; Experimental isolation of the driver's visual input, Human Factors, 4/66. Address: 8435 Brook Rd, McLean, Va. 22101.

GORDON, PROF. DONALD FLEMMING, b. Saskatoon, Sask, Jan. 26, 23; m. 47; c. 3. ECONOMICS. B.A, Saskatchewan, 44; M.A, Toronto, 46; Ph.D, Cornell, 49. Instr. econ, Princeton, 49-50; from asst. prof. to assoc. prof, grad. sch, Washington (Seattle), 50-62, PROF, 62-66; BUS. ECON, ROCHESTER, 66- Vis. assoc. prof, Pennsylvania, 56-57. R.C.N, 44-45, Lt. Econ. Asn; Economet. Soc. Business economics, history of economic theory. Publ: What was the labor theory of value, Am. Econ. Rev; The role of the history of economic thought in the understanding of modern economic theory, Am. Econ. Rev, 5/65; co-auth, Primary products and economic growth: an empirical test, J. Polit. Econ, 8/66. Address: College of Business Administration, University of Rochester, Rochester, N.Y. 14627.

GORDON, PROF. DONALD RAMSAY, b. Toronto, Ont, Sept. 14, 29; m. 52; c. 3. POLITICAL SCIENCE. B.A, Queen's (Ont), 53; M.A, Toronto, 55, open fel, 56; Inst. Int. Ed. travel grant, London Sch. Econ, 62-63; Can. Inst. Int. Affairs grant, Brookings Inst, 65-66, Can-Am. Cmt. grants, 66-68. Filing ed, Can. Press, Toronto, 53-55; asst. ed, Financial Post, 55-57; European correspondent, Can. Broadcasting Corp, Eng, 57-63; asst. prof. POLIT. SCI, Calgary, 63-65, assoc. prof, 65-66; asst. prof, WATERLOO, 66-67, ASSOC. PROF, 67- Summer vis. prof, dept. sociol, Calgary, 67. Mem. Royal Cmn. on Status of Women in Can, 67-68; adv. cmt. broadcasting, Bd. Broadcast Governors, 67-68. Can. Polit. Sci. Asn. Mass communications; Canadian foreign policy; public administration. Publ: Language, logic and the mass media, Holt, 66; The news and foreign policy, Can. Inst. Int. Affairs, 64; The mass media in Canada, J. Liberal Thought, 66. Address: Dept. of Political Science, University of Waterloo, Waterloo, Ont, Can.

GORDON, PROF. EDMUND WYATT, b. Goldsboro, N.C, June 13, 21; m. 48; c. 4. PSYCHOLOGY. B.S, Howard, 42, B.D, 45; M.A, American Univ, 50; Ed.D, Columbia, 57. Asst. dean men, Howard, 46-50; counseling psychologist & asst. dir, Morningside Community Center & Ment. Health Serv, 51-52; co-founder & co-dir, Harriet Tubman Clin. Children, 53-59; lectr. psychol, Long Island, 58-59; lectr. spec. ed, Yeshiva, 59-60, assoc. prof, 60-65, chmn. dept, 61-65, prof. psychol. & ed. & chmn. dept. ed. psychol. & guid, Ferkauf Grad. Sch. Humanities & Soc. Sci, 65-68; PROF. GUID. & CHMN. DEPT, TEACHERS COL, COLUMBIA, 68- From clin. asst. to sr. psychologist, N.Y. Med. Col, 52-60; res. assoc. pediat, Albert Einstein Col. Med, 60-65, res. asst. prof, 60-68; fel, res. conf. learning & ed. process, Stanford, 64; vis. prof, Harvard, summer 66. Psychologist, Jewish Hosp, Brooklyn 52-60; consult, Rockland County Ment. Health Center, 55-58; Pomona Day Sch, 57-59; Pomona Center Retarded Children, 59-60; consult. & coordinator res. & develop. related to disadvantaged & segregated, div. ed. res, U.S. Off. Ed, 64-66, mem. res. grants rev. panel, bur. ed. res, 64-; dir. div. res. & eval, Proj. Head Start, Off. Econ. Opportunity, 65-67. AAAS; Ed. Res. Asn; Soc. Res. Child Develop; fel. Orthopsychiat. Asn; Personnel & Guid. Asn; Coun. Except. Children; Psychol. Asn. Normal and aberrant child development; counseling and guidance; habilitation and rehabilitation of handicapped children. Publ: Co-auth, Compensatory education for disadvantaged: programs and practices-preschool through college, Col. Entrance Exam. Bd, 66; auth, Human aspect of racial conflict, In: Franklin lecture series, Wayne State, 67; The culturally different, deprived or economically marginal student: a challenge to education, In: sect. V-10, Higher education in revolutionary decades, McCutchan Pub, 67. Address: Cooper Morris Dr, Pomona, N.Y. 10970.

GORDON, DR. EDWARD M(ARTIN), Psychol, see 10th ed, Soc. & Behav. Vols.

GORDON, DR. GERALD A, b. New York, N.Y, July 21, 31; m. 55; c. 1. SOCIOLOGY. B.A, N.Y. Univ, 53, M.A, 55, Ph.D.(sociol), 62. Asst. sociol, nat. opinion res. center, Chicago, 53-54; assoc. res. proj. Health Info. Found, N.Y, 54-56; sr. res. assoc. soc. psychol. & dir. proj. studies community health, Albert Einstein Col. Med, Yeshiva, 57-60; res. assoc. & dir. sociol. proj, Health Info. Found, 60-62; asst. prof, grad. sch. bus, Chicago, 62-66; ASSOC. PROF, SCH. INDUST. & LABOR RELS, CORNELL, 66- Tech. consult, Recording for Blind, Inc, 60-61; staff consult, Albert Einstein Col. Med, 60-; consult, U.S. Pub. Health Serv, 64-; Kaiser Res. Found, 66- Sociol. Asn; Psychol. Asn. Sociology of science; formal organizations; creativity; sociology of dependency; research methodology; medical sociology. Publ: Entrepreneurial theory of formal organizations, Am. Sci. Quart, 12/66; Public versus private support of science, Am. Behav. Sci, 5/67; Freedom, visibility of consequences, and scientific innovation, Am. J. Sociol. Address: School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

GORDON, DR. HIRAM L(ANDOR), b. Solgohachia, Ark, Oct. 2, 14; m. 47; c. 2. PSYCHOLOGY. A.B, Wichita, 37; M.A, Kansas, 39; Ph.D.(psychol), Duke, 52. Res. ed. hist, Kans. Hist. Records Surv, 38-40; ranger & guide, U.S. Bur. Reclamation, 40-42; trainee clin. psychol, Vet. Admin, 46-51; clin. psychologist, VET. ADMIN. HOSP, Roanoke, Va, 52-56; RES. PSYCHOLOGIST, FT. LYON, 56- Part-time psychologist, Southeast. Colo. Guid. Clin, 65- U.S.N, 42-46, Lt. AAAS; Psychol. Asn; Parapsychol. Asn; Projective techniques; personality theory; psychotherapy. Publ: Comparative study of dreams and responses to the thematic apperception test, J. Personality; Mental patients wanting to stay in the hospital, Arch. Gen. Psychiat; Problem of overweight in hospitalized psychotic patients, Psychiat. Quart. Address: Box 21, Ft. Lyon, Colo. 81038.

GORDON, PROF. H(OWARD) S(COTT), b. Halifax, N.S, Aug. 14, 24; m. 45; c. 3. ECONOMICS. B.A, Dalhousie, 44; A.M, Columbia, 47; Ph.D.(econ), McGill, 64. Lectr, ECON, McGill, 47-48; asst. prof, Carleton (Can), 48-53, assoc. prof, 53-57, PROF, 57-66; INDIANA, 66- Vis. prof, Chicago, 56-57. Can. Coun. sr. fel, 64-65; Guggenheim Found. fel, 65. History of economic thought; British and American intellectual history. Publ: Economic theory of a common-property resource: the fishery & The London Economist and the high tide of laissez faire, J. Polit. Econ; Bank of Canada in a system of responsible government, Can. J. Econ. & Polit. Sci. Address: Dept. of Economics, Indiana University, Bloomington, Ind. 47401.

GORDON, PROF. IRA J(AY), b. New York, N.Y, Jan. 15, 23; m. 49; c. 2. PSYCHOLOGY. B.B.A, City Col. New York, 43; M.A, Columbia, 47, Ed.D. (guid), 50. Asst. prof. psychol, Kans. State Col, 48-49, assoc. prof. psychol. & counsr, 49-51; asst. prof. ED, inst. child study, Maryland, 51-54, assoc. prof, 54-58; FLORIDA, 58-61, PROF, 61-, DIR. INST. DEVELOP. HUMAN RESOURCES, 66-, chmn. found. dept, 64-66. Mem. adv. cmt, Ed. Policies Cmn, Nat. Ed. Assoc, 65- U.S.A, 43-46, Lt. Psychol. Asn; Ed. Res. Asn. Education of teachers in mental hygiene and guidance; group and self processes; development of intelligence in infancy and early childhood. Publ: Human development, Harper, 62; Human development: readings in research, Scott, 65; Studying the child in school, Wiley, 66. Address: College of Education, University of Florida, Gainesville, Fla. 32601.

GORDON, DR. JACOB U, African Hist, Mod. Am. Diplomacy, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GORDON, DR. JEROME J(AY), b. Bronx, N.Y, Sept. 5, 29; m. 56; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, City Col. New York, 51, M.A, 52; Ph.D, N.Y. Univ, 55. Soc. scientist, Syst. Develop. Corp, 58-59; res. engr, Litton Industs, 59-60; HUMAN FACTORS SCIENTIST, SYST. DEVELOP. CORP, SANTA MONICA, 60- U.S.N, 55-58, Lt. Psychol. Asn; Human Factors Soc. Address: 3551 Meier St, Los Angeles, Calif. 90066.

GORDON, PROF. JESSE E(MANUEL), b. New York, N.Y, Jan. 13, 30; m. 56; c. 3. PSYCHOLOGY. B.S, N.Y. Univ, 51, M.A, 52; U.S. Pub. Health Serv. fel, 55-57, Ph.D.(psychol), Pa. State, 56. Lectr. psychol, Wisconsin, 55-57; Asst. prof, Montana State, 57-59; MICHIGAN, 59-64, assoc. prof. PSYCHOL. & SOC. WORK, COL. LIT, SCI. & ARTS & SCH. SOC. WORK, 64-68, PROF, 68- Fulbright lectr, Univ. Hamburg, 62-63. Consult, Bur. Employ. Security, U.S. Dept. Labor, 64-66, Off. Manpower Policy Eval. & Res, 66-Med.Serv.C, 51-53, Capt. Psychol. Asn; Acad. Polit. Sci; N.Y. Acad. Sci. Psychotherapy research; hypnosis; dynamics of aggression; manpower and poverty. Publ: Personality and behavior; Handbook of clinical and experimental hypnosis, Macmillan, 67. Address: 4128 Washtenaw Rd, Ann Arbor, Mich. 48104.

GORDON, DR. JOAN, b. Ind, May 19, 21. SOCIOLOGY. A.B, Rockford Col, 42; Ph.D.(sociol), Columbia, 59. Instr. sociol, Barnard Col, Columbia, 51, sch. gen. studies, 51-52, asst. 50-52, lectr, 62-63; instr, Vassar Col, 52-59, asst. prof, 59-62; dir. res, Interdept. Neighborhood Serv. Center, Off. of Mayor, New York, 63-65; dir. pub. health res, CENTER NEW YORK CITY AFFAIRS, NEW SCH, 65-67, RES. DIR, 67- Lectr, N.Y. Univ, 64- Res. consult, Regional Plan Asn, New York, 62-64; Addiction Serv. Agency, New York, 67- Sociol. Asn. Social stratification; historical sociology. Publ: Poor of Harlem: social functioning in the underclass, Interdept. Neighborhood Serv. Center, N.Y, 65; co-auth, Social mobility and trade union membership, In: Class, status and power, Macmillan, 53. Address: Center for New York City Affairs, New School, 70 Fifth Ave, New York, N.Y. 10011.

GORDON, PROF. JOHN RAMSEY, b. Lorena, Tex, Nov. 21, 03; m. 30. SOCIOLOGY. B.A, Baylor, 29, M.A, 32; Ph.D.(sociol), Texas, 51. PROF. SOCIOL, MEMPHIS STATE, 47- Sociol. Asn. Collective behavior; attitudes and values. Publ: Interrelations of the social sciences, Ed. Quest, 59; Do social movements show a definite developmental pattern?, Proc. Southwest. Sociol. Soc, 60. Address: Dept. of Sociology, Memphis State University, Memphis, Tenn. 38111.

GORDON, DEAN JOSEPH ELWELL, b. Deatsville, Ala, July 2, 21; m. 48; c. 3. HIGHER EDUCATION, EDUCATIONAL ADMINISTRATION. A.B, Birmingham-South. Col, 42; M.S, Auburn, 49; Ph.D.(ed. admin), Chicago, 51. Teacher, high sch, 46-48; instr. math, Auburn, 48-49; res. asst. ed, Chicago, 49-51; prog. analyst, Air Univ, 51-54; asst. dean univ. col, TULANE, 54-57, assoc. dir. admissions, 57-63, dir. honors curriculum, 63-64, DEAN COL. ARTS & SCI, 64- U.S.N.R, 42-46, Lt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Organization and control in institutions of higher education. Publ: The university president: 1900-1950, J. Higher Ed, 53; co-auth, Tulane research report: Delgado Trade Sch, Tulane, 58. Address: 1108 Lowerline St, New Orleans, La. 70118.

GORDON, DR. LELAND J(AMES), b. Janesville, Minn, Sept. 28, 97. ECONOMICS. B.S, Pennsylvania, 22, A.M, 24, Ph.D, 28. Instr. econ, Pennsylvania, 22-29, 30-31, asst. prof, 31, asst. dir. admissions, 27-30; Penfield traveling fel, Turkey & Europe, 29-30; prof. ECON. & head dept, DENISON, 31-59, Harris prof, 59-63, EMER. PROF, 63-, SPEC. ASST. TO PRES. UNIV, 66- Lectr, Haverford Col, 27-29; dir. weights & measures res. center, Denison, 55-; Fulbright prof, Hiroshima, 63-64; summer lectr, center consumer affairs, Wisconsin, Milwaukee, 67. Res. specialist, consumer div, Nat. Defense Cmn, 40-41; Univ. Maryland overseas prog, 53-54. Econ. Asn. Economics for consumers; American relations with Turkey; contemporary economic problems. Publ: Elementary economics; co-auth, Economics for consumers, Am. Book Co, 5th ed, 67; auth, Weights and measures and the consumer, Consumers Union, 66. Address: 117 Locust Place, Granville, Ohio 43023.

GORDON, DR. LEONARD, b. Detroit, Mich, Dec. 6, 35; m. 55; c. 3. SOCIOLOGY, EDUCATION. B.A, Wayne State, 57, Nat. Sci. Found. fel, 62, Ph.D. (sociol), 66; M.A, Michigan, 58. Teacher, pub. schs, Mich, 57-60; instr. sociol, Wayne State, 60-62; assoc. dir, Detroit Jewish Community Coun, 62-64; Mich. area dir, Am. Jewish Cmt, 64-67; ASST. PROF. SOCIOL, ARIZONA STATE, 67- Consult, community develop prog, Wayne State, 65-67; Detroit Parent Teacher Asn. & Mich. Citizens to Adv. Pub. Ed, 66-67. Mem. planning cmt, Mich. Statewide Conf. Fiscal Reform & Qual. Ed, 66. Sociol. Asn; Asn. Intergroup Rels. Officials. Intergroup relations including interracial, interreligious and interethnic interactions in a variety of institutional

settings: educational, economic, political. Publ: Racial aspects of the Oak Park-Carver attachment, Intergroup Rels. Res. Bull, 64; A suburban school district's accomodation to de jure integration, Integrated Ed, 65; Shared time—an analysis and evaluation, In: Educational issues in a changing society, Kerber & Smith, 67. Address: Dept. of Sociology, Arizona State University, Tempe, Ariz. 85281.

GORDON, PROF. LEONARD V(ICTOR), b. Montreal, Que, Aug. 15, 17; nat; m. 46; c. 2. PSYCHOLOGY. B.A, California, Los Angeles, 40; M.A, Ohio State, 47, Ph.D.(psychol), 50. Voc. counsr. occup. opportunities, Ohio State, 47, asst. psychol, 47-49, bur. ed. res, 49-50; assoc. dir. off. statist. & res. serv, Boston, 50-51; vis. asst. prof. psychol, New Mexico, 51-52; dir. personnel measurement res. div, U.S. Naval Personnel Res. Field Activity, 52-62; chief behav. eval. res. lab. U.S. Army Personnel Res. Off, 62-66; PROF. ED. PSYCHOL. & DIR. PROG. BEHAV. RES, STATE UNIV. N.Y. ALBANY, 66- Consult, dept. journalism, Ohio State, 49-50; optical res. lab, Boston, 51; Bur. Med. & Surg, 59-; res. consult, Peace Corps, 64-65; U.S. Mil. Acad, 66- Panel mem, U.S. Civil Serv. Cmn, 57-62; prin. Navy rep, NATO Sci. Conf, Paris, 60. Abstract staff, Excerpta Medica, 54-56. U.S.A. 41-44. AAAS, Psychol. Asn; Ed. Res. Asn; Coun. Measurement in Ed; Int. Asn. Appl. Psychol. Personality measurement; selection and evaluation, especially industrial and military. Publ: Gordon personal profile; Survey of interpersonal values; Gordon occupational check list, Harcourt, 62. Address: Room 114 Education Bldg, State University of New York at Albany, Albany, N.Y. 12203.

GORDON, PRES. LINCOLN, b. New York, N.Y, Sept. 10, 13. POLITICAL SCIENCE, ECONOMICS. A.B, Harvard, 33; Rhodes scholar, Oxford, 33, Ph.D, 36; hon. LL.D, Fairleigh Dickinson, 65, Columbia, 67, Rutgers, 67. Instr. govt, bus. sch, Harvard, 36-41; mem. staff requirements cmn, War Prod. Bd, 42; dir. bur. reconversion priorities, Civilian Prod. Admin, 45-46; dir. prog. div, off. spec. res, Econ. Coop. Admin, 49-50; econ. adv. spec. asst. to President, 50-51; dir. U.S. Opers. Mission & minister econ. affairs, Am. Embassy, London, 52-55; Ziegler prof. int. econ. rels, Harvard, 55-61; U.S. Ambassador to Brazil, 61-66; asst. secy. for Inter-Am. Affairs, U.S. Dept. State, 66-67; PRES, HOPKINS, 67- Planning technician, Nat. Resources Planning Bd, 39-40, consult, 40-; sr. econ. analyst adv. cmn, Coun. Nat. Defense, 40; consult. & U.S. rep, Atomic Energy Cmn, UN, 46-; consult, Army & Navy Munitions Bd, U.S. Dept. State, 47- Polit. Sci. Asn; Am. Econ. Asn; Soc. Pub. Admin; Am. Acad. Arts & Sci; Royal Econ. Soc. International economic relations; government and economic life; the public corporation in Great Britain. Publ: Co-auth, Government and the American economy; auth, A new deal for Latin America. Address: Johns Hopkins University, Baltimore, Md. 21218.

GORDON, DR. MARGARET S(HAUGHNESSY), b. Wabasha, Minn, Sept. 4, 10; m. 36; c. 2. ECONOMICS. B.A, Bryn Mawr Col, 31; Ph.D.(econ), Radcliffe Col, 35. Instr. econ, Wellesley Col, 35-36; res. fel, Radcliffe Col, 36-39; chief res. sect, Off. Price Admin, 42-43; asst. res. economist, INST. INDUST. RELS, CALIFORNIA, BERKELEY, 50-54, ASSOC. DIR, 54-, act. dir, 55-56. Lectr, California, Berkeley, 65- Consult. unemploy. ins, U.S. Bur. Employ. Security, 62-66. Mem, Berkeley City Coun, 65-; adv. cmt. res. develop, U.S. Soc. Security Admin, 65-68, chmn, 66-67; President's Cmn. Income Maintenance Progs, 68- Econ. Asn; Indust. Rels. Res. Asn; Gerontol. Soc. Employment and labor force problems; social insurance; economics of aging. Publ: The economics of welfare policies, Columbia, 63; Retraining and labor market adjustment in western Europe, U.S. Dept. Labor, 65; ed, Poverty in America, Chandler Pub, 65. Address: 984 Creston Rd, Berkeley, Calif. 94708.

GORDON, DR. MARY AGNES, b. Winchester, Ky, Aug. 6, 03. PSYCHOLOGY. A.B. Kentucky, 25, M.A, 27; Ph.D.(psychol), Columbia, 38. Statistician, Mills Col. 27-29; instr. psychol. Kentucky, 30-33; asst, Tenn. Valley Authority, 33-37; test ed, World Book Co, N.Y. 40-41; statistician, State Dept. Health, N.Dak, 44-49; res. psychologist, personnel lab, Lackland Air Force Base, 49-65; RETIRED. Fel. Psychol. Asn. Personnel selection and classification; background factors in aptitude and vocational interest; archaeology. Publ: General and specific factors in transfer of training, Arch. Psychol; Validity of the airman classification battery, Res. Bull, Human Resources Res. Center, Lackland Air Force Base; Influence of background factors upon prediction of success in Air Force training schools, Res. Reports, Personnel Lab, Lackland Air Force Base. Address: 102 Rampart Dr, Apt. B5, San Antonio, Tex. 78216.

GORDON, DR. MICHAEL ROBERT, b. Chicago, Ill, July 16, 39; m. 65. POLITICAL SCIENCE. A.B, Stanford, 61; Rhodes scholar. & B.A, Oxford, 63; Littauer fel, M.P.S. & Ph.D.(govt), Harvard, 66. ASST. PROF. POLIT. SCI, CALIFORNIA, SANTA BARBARA, 65- British politics; international relations. Address: Dept. of Political Science, University of California, Santa Barbara, Calif. 93106.

GORDON, PROF. MILTON, b. Milwaukee, Wis, July 6, 22; m. 46; c. 3. BUSINESS MANAGEMENT, INDUSTRIAL PSYCHOLOGY. B.A, Wisconsin, 43, Ph.D, 52; Chicago, 46; M.A, Marquette, 48. Asst. prof. psychol. & ed, Central Michigan, 49-51; asst. guid, Wisconsin, 51-52; assoc. prof. & assoc. dir. grad. bus. & mgt. center, Marquette, 53-57; assoc. dir. mgt. develop, Calif. Inst. Tech, 57-59; PROF. MGT, SAN FERNANDO VALLEY STATE COL, 59- Consult, M. Gordon & Assocs, 52- U.S.N, 43-47, Lt.(jg). Psychol. Asn. Psychological and organizational problems in integrating the scientist into industry; executive development. Publ: Communication of decisions, Univ. Chicago & Calif. Inst. Tech, 65; From principle to practice in training; From relegation to delegation. Address: School of Business & Economics, San Fernando Valley State College, 18111 Nordhoff, Northridge, Calif. 91607.

GORDON, PROF. MILTON M(YRON), b. Gardiner, Maine, Oct. 3, 18; m. 46. SOCIOLOGY. A.B, Bowdoin Col, 39; M.A, Columbia, 40, fel. 41-42, Ph.D. (sociol), 50. Instr. sociol, Pennsylvania, 46-50; asst. prof, Drew, 50-53; Haverford Col, 53-57; vis. assoc. prof, Wellesley Col, 57-58, 59-60; Russell Sage Found. grant, 58-59; Soc. Sci. Res. Coun. grant & Guggenheim fel, 60-61; PROF. SOCIOL, MASSACHUSETTS, 61- Consult, City Solicitors Off, Phila, Pa, 54-55; Brandeis, 61-62. Anisfield-Wolf award & Nat. Conf. Christians & Jews Brotherhood award, 65. Sociol. Asn; Soc. Study Social Probs. Race relations; social stratification; sociological theory. Publ: Social class in American sociology; Assimilation in American life, Oxford Univ, 64; Assimilation in America: theory and reality, Daedalus. Address: Dept. of Sociology & Anthropology, University of Massachusetts, Amherst, Mass. 01002.

GORDON, DR. M(ORDECAI) H(ENRY), b. Tarrytown, N.Y, Sept. 6, 12; m. 40; c. 1. CLINICAL PSYCHOLOGY. B.S, N.Y. Univ, 34; M.A, Columbia, 37; Ph.D. Tennessee, 50. Intern clin. psychol, Letchworth Village, 38; teacher, Hawthorne-Cedar Knolls Sch, 39-40; occup. analyst, U.S. Employ. Serv, 40-41; clin. psychologist, Kennedy Vet. Admin. Hosp, Memphis, Tenn, 47-48; supvry. clin. psychologist, Vet. Admin. Hosp, Chillicothe, Ohio, 50-52, chief clin. psychol. serv. & coordinator res. & ed. med. servs, Knoxville, Iowa, 52-57; asst. dir, cent. neuropsychiat. lab, Vet. Admin, Perry Point, Md, 57-59; res. psychologist, Nat. Insts. Health, Bethesda, 59-67; PSYCHOLOGIST, OFF. SURGEON GEN, U.S. PUB. HEALTH SERV, 67- U.S.A. 41-46. Psychol. Asn; Statist. Asn; Psychomet. Soc; Biomet. Soc; Soc. Pub. Admin. Psychometrics; psychopathology; grants administration. Address: 3006 Dennis Ave, Kensington, Md. 20795.

GORDON, DR. MORTON, b. New York, N.Y, Nov. 17, 18; m. 43. POLITICAL SCIENCE. B.B.A, St. John's (N.Y), 48; M.A, Chicago, 50, Ph.D, 53. Head lib. arts dept, CALIFORNIA, BERKELEY, 58-60, assoc. dir. univ. exten, 60-64. DIR. UNIV. EXTEN, 64-. LECTR. ED. 67- U.S.A. 41-45. 2nd Lt. Adult education and community development. Publ: Theory and practice of American foreign policy; International political behavior; Meaning of university level. Address: University Extension, University of California, 2223 Fulton St, Berkeley, Calif. 94720.

GORDON, DR. MYRON H, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

GORDON, PROF. MYRON J(ULES), b. New York, N.Y, Oct. 15, 20; m. 45; c. 2. ACCOUNTING, ECONOMICS. B.A, Wisconsin, 41; M.A, Harvard, 47, Ph.D. (econ), 52. Asst. prof. acct, Mass. Inst. Tech, 52-55, assoc. prof. indust. mgt, 55-62; PROF. FINANCE, ROCHESTER, 62- Vis. prof, California, 66-67. Consult, Federal Commun. Cmn, 66-67. Ed, Richard D. Irwin, Inc, 65-Econ. Asn; Am. Acct. Asn.(ed, 66-67); Opers. Res. Soc; Inst. Mgt. Soc; Finance Asn. Security valuation and optimal investment and financial policy; design and use of accounting systems to control large organizations; regulation of public utilities. Publ: The investment financing and valuation of the corporation; co-auth, Accounting: a management approach. Address: College of Business Administration, University of Rochester, Rochester, N.Y. 14627.

GORDON, DR. MYRON K(ANTOROVITZ), b. Minsk, Russia, July 18, 95; nat; m. 29. STATISTICS. Ph.D.(econ, statist), Berlin, 29. Librn. & asst. to dir. soc. hyg. seminar, Berlin, 29-33; res. fel. Milbank Mem. Fund, N.Y, 40-42; pop. studies, American Univ, 42-45; chief pop. & manpower sect, U.S. Dept. State, 45-46; head Slavic & Balkan unit, prev. med. div. Off. Surgeon Gen, U.S. Dept. Army, 46-54, chief Eurasia Sect. Med. Info. & Intel. Agency, 54-63; RETIRED. Meritorious Civilian Serv. award, 49. Statist. Asn, Sociol. Asn; Pub. Health Asn; Asn. Adv. Slavic Studies; Pop. Asn; Int. Union Sci. Study of Pop. Human ecological aspects of public health; vital statistics; population and manpower. Address: 1725 17th St. N.W. Apt. 210, Washington, D.C. 20009.

GORDON, DR. NORMAN B(OTNICK), b. Brooklyn, N.Y. Feb. 12, 21; m. 44; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 42; Harvard, 43; M.A, New Sch. Soc. Res, 51; Ph.D.(psychol), N.Y. Univ, 57. Personnel mgr. Wonder Prods. Corp, N.Y, 46-51; res. psychologist, U.S. Navy Training Device Center, 51-58; res. assoc, dept. prev. & environ. med. Albert Einstein Col. Med, 58-63. ASSOC. PROF. PSYCHOL. FERKAUF GRAD. SCH. HUMANITIES & SOC. SCI. YESHIVA, 59- Guest investr. Rockefeller, 64- U.S.A.A.F. 42-46. AAAS; Psychol. Asn; Asn. Psychophysiol. Study Sleep. Psychology of human learning and performance; physiological correlates of behavioral states; sleep and vigilance behavior. Publ: Learning and performance of a motor task under varied display conditions, 59, co-auth. Effect of augmented visual cues on rotary pursuit, 67 & auth, Guidance versus feedback and motor learning, 68, J. Exp. Psychol. Address: 31 Willowood Dr. Wantagh, N.Y. 11793.

GORDON, DR. OAKLEY J(UNIOR), b. Ind, Feb. 8, 22; m. 48; c. 3. PSYCHOLOGY. B.S, Purdue, 45; M.S, Utah, 50, Ph.D.(psychol), 52. Asst. & lectr, UTAH, 49-52, from asst. prof. to PROF. PSYCHOL. & DEAN ACAD. COUNSELING, 52- Supvry. develop. consult, U.S. Smelting Mining Refining, 55-56; clin. psychol. consult, Vet. Admin. Hosp, Ft. Douglas, Utah, 55-56. Psychol. Asn. Industrial and personnel psychology; personality and mental abilities through perception; attitudes toward learning through educational television. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

GORDON, PROF. PAUL J, b. New York, N.Y, Oct. 14, 21; m. 50; c. 5. BUSINESS MANAGEMENT, PUBLIC ADMINISTRATION. B.B.A, City Col. New York, 45; M.B.A, Cornell, 49; Ph.D.(polit. sci, pub. admin), Syracuse, 58. Wage & salary adminstr, Standard Oil Co. (N.J), 43-48; asst. prof. indust. & labor rels, Cornell, 49-54; prof. mgt. & chmn. dept, Duquesne, 54-55; res. consult, Mem. Center Cancer & Allied Diseases, 55-56; assoc. prof. bus. admin. & planning dir. grad. prog. hosp. admin, Emory, 56-59; assoc. prof. mgt, GRAD. SCH. BUS, INDIANA, 59-63, PROF. MGT. & ADMIN, 63-, chmn. dept, 63-67. Lectr, prog. coordinator, discussion leader, bus, hosp. & govt. groups & Sch. Banking of South, La. State Univ, 57-61; Fulbright lectr. & vis. prof, Postuniv. Inst. Study Bus. Orgn, Turin, Italy, 63; lectr. & prog. participant, Oxford, Manchester, Ghent, ISVE Sch. Exec. of Develop. Countries, Italy & Greek Mgt. Asn, 63; Indiana Univ-Ford Found. res. grant int. studies, 63 & summer, 66; Int. Bus. Mach. fel, annual seminar quant. appln. bus, Tulane, 65; vis. prof, Trinity Col.(Dublin), 67; chief of party, Ford Found-U.S. Dept. State-Indiana Univ. consultation, Univ. Ljubljana, 67. Consult, U.S. Pub. Health Serv, 56-59; U.S. Internal Revenue Serv, 56-; U.S. Dept. State consult, Panama & Univ. West Indies, 66; consult, various companies, unions, cols. & univs. Rep, Int. Mgt. meetings, Mex. City, 61, New York, 63. Acad. Mgt. (ed, 64-66, v.pres, 67, pres, 68); Mgt. Asn; Inst. Mgt. Sci; Soc. Pub. Admin;

Soc. Adv. Mgt; Indust. Rels. Res. Asn; Soc. Int. Develop. General management and administration; organization administration and policy; corporate strategy, structure, behavior; complex organizations and their administration; administrative and organizational systems and behavior; comparative and multi-national studies; applications in business, government and institutions. Publ: Objectives for education in administration, Hosp. Admin, winter 65 & Mgt. Int, 67; Administrative strategy for a graduate school of administration, Acad. Mgt. J, 12/67. Address: Graduate School of Business, Indiana University, Bloomington, Ind. 47401.

GORDON, DR. RICHARD EDWARDS, Psychiat, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

GORDON, DR. RICHARD L(EWIS), b. Portland, Maine, June 19, 34; m. 58; c. 2. ECONOMICS. A.B, Dartmouth Col, 56; Ph.D, Mass. Inst. Tech, 60. Asst. economist, New Eng. Mutual Life Ins. Co, 58; instr. econ, Mass. Inst. Tech, 59-60; econ. analyst, econ. off, Union Carbide Corp, 60-64; asst. economist, First Nat. City Bank of N.Y, 64; asst. prof, MINERAL ECON, PA. STATE, 64-66, ASSOC. PROF, 66- Econ. Asn; Economet. Soc. Industrial, international and mineral economics. Publ: Energy policy in the European community, J. Indust. Econ, 6/65; Conservation and the theory of exhaustible resources, Can. J. Econ. & Polit. Sci, 8/66; A reinterpretation of the pure theory of exhaustion, J. Polit. Econ, 6/67. Address: 104 Mineral Sciences Bldg, Pennsylvania State University, University Park, Pa. 16802.

GORDON, PROF. R(OBERT) A(ARON), b. Washington, D.C, July 26, 08. ECONOMICS. A.B, Hopkins, 28; A.M, Harvard, 31, Ph.D, 34. Instr, Harvard, 31-38; from asst. prof. to PROF. ECON, CALIFORNIA, BERKELEY, 38-, chmn. dept, 59-63. Mem. staff, Brookings Inst, 40-41; Rockefeller grant, 48-49; Guggenheim fel, 56-57; dir. bus. ed. study, Ford Found, 56-58. U.S. coordinator, Combined Raw Materials Bd, 42-45; economist, War Prod. Bd, 42-45; mem. Soc. Sci. Res. Coun, 55-60, chmn, cmt. econ. stability, 59-62; mem. Nat. Task Force Econ. Ed, 60-61; chmn. President's Cmt. to Appraise Employ. & Unemploy. Statist, 61-62; co-dir, study unemploy. in Am. econ, 62-67. Econ. Asn.(v.pres, 60); Economet. Soc; Royal Econ. Soc. Business cycles; business leadership in the large corporation; business fluctuations. Publ: Business fluctuations, 2nd ed, Harper, 61; co-ed, Readings in business cycles, Irwin, 65; auth, The goal of full employment, Wiley, 67. Address: Dept. of Economics, University of California, Berkeley, Calif. 94708.

GORDON, DR. ROBERT A(RTHUR), b. New York, N.Y, Aug. 10, 32; div; c. 1. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, City Col. N.Y, 57; M.A, Chicago, 62, Ph.D.(soc. psychol, sociol), 63. Res. asst. gang delinquency, youth studies prog, Univ. Chicago, 60-61, assoc. dir, 62-63; asst. prof. SOC. RELS, HOPKINS, 63-, acting. chmn. dept, 64-65. Soc. Sci. Res. Coun. faculty fel, 64-65; Nat. Inst. Health res. grant, 65-66. U.S.A, 55-57, 1st Lt. Sociol. Asn; Psychol. Asn; Psychomet. Soc; Soc. Study Social Probs. Values and personalities of deviants, especially juvenile delinquents, and the perceptions of these values by others; social integration among deviant personalities; methodological matters, such as multiple regression and factor analysis. Publ: Co-auth, Values and gang delinquency: a study of street-corner groups, 9/63 & auth, Social level, social disability and gang interaction, 7/67, Am. J. Sociol; Issues in the ecological study of delinquency, Am. Sociol. Rev, 12/67. Address: Dept. of Social Relations, Johns Hopkins University, Baltimore, Md. 21218.

GORDON, DR. ROBERT D(EAN), b. Los Angeles, Calif, May 26, 07; m. 45; c. 1. MATHEMATICS. B.A, Stanford, 32, M.A, 34; Ph.D.(math), Indiana, 48. Asst. prof. math, Buffalo, 48-49; prof, Washington Col.(Md), 50-51; assoc. prof, Hampton Inst, 51-54; asst. prof, Calif. State Polytech. Col, 55-60; statist. methods analyst, STATE OF CALIF, 63-67, PROJ. ANALYST, BAY AREA TRANSPORTATION STUDY CMN, 67- U.S.A, 43-45. Math. Asn. Am. Undergraduate mathematical instruction; sociology and economics of small areas. Address: 2124 Rock St, Mountain View, Calif. 94040.

GORDON, PROF. S(ANFORD) D(ANIEL), b. Newark, N.J, June 23, 24; m. 48; c. 2. SOCIAL SCIENCE. B.S, N.Y. Univ, 47, M.A, 48, Ph.D.(econ. hist), 53. Instr. soc. studies, N.Y. Univ, 48-50; STATE UNIV. N.Y. COL. ONEONTA, 50-52, asst. prof, 52-54, assoc. prof, 54-57, prof, 57-62, PROF. ECON. & CHMN. DEPT, 62- Vis. prof, State Univ. N.Y. Col. Buffalo, 65; Miami, 67; State Univ. N.Y. res. grant, 67; summer res. fel, 64. Parks cmnr, City of Oneonta, 56-60, mem. charter rev. cmt. Consult, Tri-County Soc. Studies Teachers, 52-53; Trans-Vision Div, Milprint Inc, Wis. & Sci. Res. Asn, Ill, 65; bd. coop. ed. serv, Otsego, N.Y, 67. Mem, Nat. Coun. Soc. Studies. Calvin K. Kazajian Found. award, 67. U.S.A.A.F, 43-45. Econ. Asn; Econ. Hist. Asn. Municipal finance and structure; corporate concentration and public policy, 1873-1890; American economic thought in nineteenth century; design of new model for the teaching of income determination; education as a factor in economic development. Publ: Co-auth, An introduction to the American economy—analysis and policy, Heath, 67; auth, Attitudes of economists towards industrial combinations in the decade preceding passage of the Sherman Act, South Econ. J, 63. Address: 41 Union St, Oneonta, N.Y. 13820.

GORDON, DR. SOL, b. Brooklyn, N.Y, June 12, 23; m. 53; c. 1. CLINICAL PSYCHOLOGY. B.S. & M.A, Illinois, 47; Ph.D, London, 53. Instr. psychol, Connecticut, 47-48; psychologist, Jewish Agency & Ministry Soc. Welfare, Israel, 48-51; Kupot Holim, 53-54; chief psychologist, Phila. Child Guid. Clin, 54-61; Middlesex County Ment. Health Clin, 61-65; ASSOC. PROF. PSYCHOL. & ED, YESHIVA, 65- Dir. ment. health prog, Ment. Health Asn-Bd. Ed. Cmt, Phila, 61- Consult, Phila. Jewish Family Serv, 60-; Youth Servs, Inc, 61-; St. Martha's Settlement House, 61. U.S.A.A.F, 42-46. Psychol. Asn; Orthopsychiat. Asn; Group Psychother. Asn. Early detection and treatment of emotionally distrubed elementary school children. Publ: Quality education in de facto segregated schools? Changing Ed, fall 67; An academic elementary school in the urban Ghetto, In: Urban R's, Praeger, 67; ed, Pressures that disorganize in secondary schools, N.J. Sec. Sch. Teachers Yearbook, 66. Address: 106 N. Sixth Ave, Highland Park, N.J. 08904.

GORDON, STANLEY T(HOMAS), b. Columbus, Ohio, Sept. 30, 13; m. 40; c. 4. PUBLIC ADMINISTRATION. B.A, Ohio Wesleyan, 34; M.S, Syracuse, 35. Asst. finance officer, Works Progress Admin, 35-37; sr. assoc, J.L. Jacobs & Co, 37-41; prin. admin. analyst, U.S. Bur. Budget, 41-45; asst. to secy, U.S. Dept. Commerce, 45-51; PROG. OFFICER INT. RELS, FORD FOUND, 51- Polit. Sci. Asn; Soc. Pub. Admin. Management; international relations; education administration. Address: Ford Foundation, 320 E. 43rd St, New York, N.Y. 10017.

GORDON, TAVIA, b. Chicago, Ill, Dec. 14, 17; m. 48; c. 4. STATISTICS, ANTHROPOLOGY. B.A, California, 38. ANAL. STATISTICIAN, commun. disease center, U.S. Pub. Health Serv, 51-52, Nat. Off. Vital Statist, 52-54, Nat. Insts. Health, 54-60; Nat. Health Surv, 60-66; NAT. INSTS. HEALTH, 66- U.S.A, 41-45. Statist. Asn. Health and medicine; demography. Address: 12901 Bluhill Rd, Silver Spring, Md. 20906.

GORDON, DR. THOMAS, b. Paris, Ill, Mar. 11, 18; div; c. 1. PSYCHOLOGY. A.B, DePauw, 39; M.A, Ohio State, 40; Ph.D, Chicago, 49. Dir. aviation res, Am. Inst. Res, 47-49, consult, 49-51; asst. prof. psychol, Chicago, 49-54, assoc. prof, res. assoc, indust. rels. center & counsr, counseling center, 54; psychol. consult, Edward Glaser & Assocs, 54-58; PSYCHOL. CONSULT, 58- Lectr, exten. div, California, Los Angeles, 54-; Pittsburgh, 48. Consult, Res. & Develop. Bd, 51. U.S.A.A.F, 42-46, Capt. Psychol. Asn. Leadership; psychotherapy; group psychology; executive human relations training; organizational theory and communications; parent effectiveness training. Publ: Group centered leadership; Group centered leadership and administration; Psychotherapy and personality change. Address: 110 S. Euclid Ave, Pasadena, Calif. 91101.

GORDON, PROF. WENDELL C(HAFFEE), b. Birmingham, Ala, Oct. 9, 16. ECONOMICS. A.B, Rice Inst, 37; A.M, American Univ, 38; Mexico, 39; Ph.D, N.Y. Univ, 40. From assoc. prof. to PROF. ECON, TEXAS, 45-U.S.A, 42-45. Econ. Asn; Economet. Soc; Statist. Asn; Royal Econ. Soc. International economics; Latin American economic problems. Publ: Expropriation of foreign owned property in Mexico; International trade: goods, people and ideas; Political economy of Latin America, Columbia, 66. Address: Dept. of Economics, University of Texas, Austin, Tex. 78712.

GORDON, DR. WHITNEY H(YDE), Sociol, see 10th ed, Soc. & Behav. Vols.

GORDON, PROF. WILLIAM EDWIN, b. Morgan Co, Ill, Oct. 13, 11; m. 40; c. 4. SOCIAL WORK. B.A, Minnesota, 37, Ph.D.(ecol), 41. Asst. bot, Minnesota, 36-41, field instr, forestry sch, 38-41, instr. biostatist, med. sch, 41-42; head bur. res. & statist, State Div. Soc. Welfare, Minn, 42-46; regional res. consult, Soc. Security Admin, 47-48; PROF. soc. res, Nashville Sch. Soc. Work, 48-51, RES, SCH. SOC. WORK, WASHINGTON (ST. LOUIS), 51- Statistician, Air Serv. Command, Ohio, 44. Consult, Vet. Admin; Nat. Insts. Health. Fel. AAAS; Statist. Asn; Nat. Asn. Soc. Workers, (2nd v.pres, 64-66). Development and application of scientific methodology to the study of psycho-social phenomena. Publ: Toward basic research in social work (a monogr), 4/51; Knowledge and value: their distinction and relationship in clarifying social work practice, Soc. Work, 7/65; Toward a social work frame of reference, J. Ed. Soc. Work, fall 65. Address: George Warren Brown School of Social Work, P.O. Box 1196, Washington University, St. Louis, Mo. 63130.

GORDON, PROF. WILLIAM R(ALPH), Sociol, see 10th ed, Soc. & Behav. Vols.

GORE, PROF. GEORGE J(OSEPH), b. Chicago, Ill, Mar. 9, 26; m. 49. MANAGEMENT, PERSONNEL ADMINISTRATION. B.S, Illinois, 49, M.S, 50; M.B.A, Michigan, 56, Ph.D.(mgt), 61. Bus. trainee acct, Gen. Elec. Co, Schenectady, N.Y, 50; planning engr. scheduling, E.I. du Pont, Newport, Ind, 51, control engr. admin. asst, Wilmington, Del, 51-54; fel. & exten. lectr. MGT, Michigan, 54-59; asst. prof, CINCINNATI, 59-61, assoc. prof, 61-64, PROF, 64-, prof. in charge dept, 67. Owner, Gore Mgt. Consult, 55-67; sr. res. assoc, Univ. Mgt. Consultants, 67- Consult, Lewis & Frisinger Hwy. Construct. Co, Ann Arbor, Mich, 55; plant serv. dept, Univ. Michigan, 57-58; Coca-Cola Corp, Cincinnati & Cleveland, Ohio, 61-67; Cincinnati Lithographing Co, Ohio, 63; South-West. Pub. Co, 64-66; Off. Econ. Opportunity, Wash, D.C, 65. U.S.N, 44-46. Acad. Mgt; Soc. Adv. Mgt; Indust. Mgt. Soc; Inst. Mgt. Sci; Mgt. Asn. Industrial and general management; industrial relations. Publ: Contrib, Critical incidents in management, Irwin, 63. Address: Dept. of Management, University of Cincinnati College of Business Administration, Cincinnati, Ohio 45221.

GORE, PROF. WILLIAM J(AY), b. Medford, Ore, Feb. 23, 24; m. 47; c. 3. POLITICAL SCIENCE. B.A, Washington (Seattle), 48; M.P.A, Southern California, 50, D.P.A, 52. Instr. POLIT. SCI, WASHINGTON (SEATTLE), 51-56, PROF, 66-; asst. prof, Kansas, 56-57, 58-61; Cornell, 57-58; assoc. prof, Indiana, 61-66. Consult, U.S. Pub. Health Serv. res; chmn. comp. urban studies group, Nat. Sci. Found. panel; mem. Comp. Admin. Group, 65-U.S.A, 43-46. Polit. Sci. Asn. Publ: Administrative decision-making, Wiley, 64; co-auth, Making of decisions, Macmillan, 64 & Change in the small community, Friendship, 67. Address: Dept. of Political Science, University of Washington, Seattle, Wash. 98105.

GORHAM, DR. DONALD R(IX), b. Kalamazoo, Mich, May 23, 03; m. 26; c. 2. PSYCHOLOGY. B.A, Colgate, 26, M.A, 27; scholar, Pennsylvania, 28-29, Ph.D, 34. Dir. sch. ed, East. Sem, 30-42; prof. psychol. & chmn. student personnel, Keuka Col, 42-50; supvr. clin. psychologist, Waco Vet. Admin. Hosp, 50-59; chief exp. studies, central neuropsychiat. res. lab, VET. ADMIN. HOSP, 59-63, CHIEF PSYCHOL. RES. LAB, 63- Prof, Baylor, 50-59; prin. investr, Nat. Inst. Ment Health res. grant, 64-67. Chief clin. psychologist, Canandaigua Vet. Admin. Hosp, 46-47, consult, 47-48; consult, psychopharmacol. serv. center, Nat. Inst. Ment. Health, 63; Naval Med. Res. Inst, 66-; Tex. Dept. Ment. Health, 66. Fel. Psychol. Asn; fel. Interam. Soc. Psychol; fel. Int. Coun. Psychol. Psychotherapy with psychotics; construction of proverbs test for clinical use; computer method of scoring inkblot tests. Publ: Understanding adults; Proverbs test, Psychol. Test Specialists, 56; co-auth, Brief psychiatric rating scale, Psychol. Reports, 62. Address: Veterans Administration Hospital, Perry Point, Md. 21902.

GORHAM, DR. WILLIAM A(RTHUR), b. Cleveland, Ohio, Dec. 17, 24. PSYCHOLOGY. B.S, Western Reserve, 48, M.A, 50, Ph.D.(psychol), 54. Asst.

psychol, personnel res. inst, Western Reserve, 48-49, res. assoc, 50-53; res. psychologist, personnel res. br, U.S. Dept. Army, 49-50; proj. dir, Psychol. Res. Assocs, 53-55; res. scientist psychol, Am. Inst. Res, 55-62; res. assoc, Pittsburgh, 58-62; SUPVRY. RES. PSYCHOLOGIST, U.S. CIVIL SERV. CMN, 62- Lectr, George Washington, 56. U.S.A, 43-45. Psychol. Asn; Personnel & Guid. Asn. Criterion development; employee selection; industrial psychology. Publ: Co-auth, Design for a study of American youth, Houghton, 62; Research on behavior impairment due to stress: survey of background material; auth, Methods for measuring staff nursing performance, Nursing Res, winter 63. Address: 1021 26th St. N.W, Washington, D.C. 20037.

GORLOW, PROF. LEON, b. New York, N.Y, Feb. 27, 20; m. 41; c. 4. PSYCHOLOGY. A.B, City Col. New York, 40; A.M, Columbia, 47, Ph.D.(psychol), 50. Asst. prof. PSYCHOL, Syracuse, 49-52; ASSOC. PROF, PA. STATE, 52- Consult, clin. psychol. training prog, Vet. Admin, 53- U.S.A, 43-45. Psychol. Asn. Psychotherapy; psychodiagnosis; validity of complex judgments; values and behavior. Publ: Ed, Readings in psychology of adjustment; co-auth, Non-directive group psychotherapy. Address: Dept. of Psychology, Pennsylvania State University, University Park, Pa. 16802.

GORMAN, DR. ALOYSIA MARY, b. Standish, Maine, Feb. 8, 07. PSYCHOLOGY. B.A, Denver, 51, M.A, 54, Ph.D.(exp. psychol), 59. Assoc. prof. PSYCHOL, Richmond Prfnl. Inst, Col. William & Mary, 60-62; acting asst. prof, Drake, 62-63; asst. prof, Claremont Grad. Sch. & Univ. Center & Whittier Col, 63-64; ASSOC. PROF, Marshall, 64-67; ST. BONAVENTURE, 67- AAAS; Psychol. Asn; Statist. Asn. Learning and retention; psycholinguistics; psychological scaling; experimental design and analysis; test construction; scientific methodology; motivation; cognitive processes; personality and social psychology. Publ: Recognition memory for nouns as a function of abstractness and frequency, J. Exp. Psychol, 1/61. Address: Dept. of Psychology, St. Bonaventure University, St. Bonaventure, N.Y. 14778.

GORMAN, DR. BENJAMIN L(EE), b. Bardstown, Ky, Nov. 16, 33; m. 52; c. 2. SOCIOLOGY. B.A, Tulane, 57, Ph.D.(sociol), 65. Asst. SOCIOL, West Texas State, 60-62; asst. prof, Cent. State Col. (Okla), 62-65; Okla. State, 65-67; Boston, 67-68; ASSOC. PROF, FLORIDA, 68- Res. grants, prin. investr. Tex. Ed. Res. Fund, 62, Nat. Inst. Ment. Health, 65-66 & Boston Univ. Grad. Res, 68- Sociol. Asn. Social organization; values; stratification; bureaucracy. Address: Dept. of Sociology, University of Florida, Gainesville, Fla. 32601.

GORMAN, DR. JOHN A(LFRED), b. Pitt County, N.C, Sept. 22, 36; m. 57; c. 2. PSYCHOLOGY. A.B, North Carolina, 58, M.A, 61, Ph.D.(psychol), 64. Part-time instr. psychol, North Carolina, 58-60; psychol. intern, Roanoke Vet. Admin. Hosp, 60-61; part-time instr. PSYCHOL, NORTH CAROLINA, 61-62, instr, 62-64, ASST. PROF, 64- Chief psychologist, Children's Psychiat. Unit, Butner, N.C, 63-67. Psychol. Asn; Group Psychother. Asn. Research and treatment of emotionally disturbed children. Publ: Co-auth, Two failures to reproduce effects of anxiety on eyelid conditions, J. Exp. Psychol, 61; The growth and development of a child facility, N.C. J. Ment. Health, 66. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27515.

GORMAN, SISTER MARGARET MARY, R.S.C.J, b. Kingston, N.Y, July 18, 19. PSYCHOLOGY. A.B, Trinity Col.(D.C), 39; summer, Detroit, 52; M.A, Fordham, 52; Ph.D, Catholic Univ, 58. Teacher, convents, Pa, Mich, Conn, D.C, 42-58, supvr. studies, D.C, 53-55; prin, St. Katherine's Sch, Pa, 57-59; ASSOC. PROF. PSYCHOL. & CHMN. DEPT, NEWTON COL. SACRED HEART, 59- Psychol. consult, Personnel Mgt. for Exec. Conf, U.S. Army & U.S. Air Force, 63-; consult, Nat. Inst. Child Health & Human Develop, 67-68. Psychol. Asn; Philos. Asn. Rapprochement of psychology and philosophy in personality development, under the aspect of existential analysis; general semantics. Publ: General semantics and contemporary Thomism; ed, Reflections on man, Harcourt, 66. Address: Newton College of the Sacred Heart, 885 Centre St, Newton, Mass. 02159.

GORMEZANO, PROF. ISIDORE, b. New York, N.Y, July 20, 30; m. 51; c. 2 EXPERIMENTAL PSYCHOLOGY. B.A, N.Y. Univ, 52; M.A, Wisconsin, 57, Ph.D, 58. Instr. PSYCHOL, Indiana, 58-59, asst. prof, 60-64, assoc. prof, 64-66; PROF, IOWA, 66- Vis. prof, California, Berkeley, 63-64. U.S.A, 53-55. AAAS; Psychol. Asn; Psychonomic Soc. Classical conditioning; instrumental learning. Publ: Yoked comparisons of classical and instrumental conditioning of the eyelid response and an addendum on voluntary responses, In: Classical conditioning, 65; Classical conditioning, In: Experimental methods and instrumentation in psychology, McGraw, 66; co-auth, Conditioned jaw movement in the rabbit, J. Exp. Psy, 66. Address: Dept. of Psychology, University of Iowa, Iowa City, Iowa 52240.

GORROW, DR. BERNARD J, b. Bombay, N.Y, Mar. 14, 13; m. 41. SOCIOLOGY. B.S, State Univ. N.Y, 42; M.A, St. Lawrence, 44; Ph.D, Nebraska, 51. Asst. prof. soc. sci, Ark. State Col, 56-58; asst. prof. sociol. & chmn. dept, Idaho State Col, 58-62; assoc. prof. rural sociol, S.Dak. State, 62-66; ASSOC. PROF. SOCIOL. & CHMN. DEPT, LETHBRIDGE, 66- U.S.A, 43-45. Fel. Sociol. Asn; Can. Asn. Sociol. & Anthrop. Sociology of revolution; constructive typology as a heuristic device; alcoholism as adjustive behavior to industrial culture; impact of industrialism on personality structure. Publ: The agro-industrial revolution, Res. Bull, S.Dak. State, 65; Comparative study of revolution, Midwest Seciol; The alcoholic in industrial society, Midwest Sociologist. Address: Dept. of Sociology & Anthropology, University of Lethbridge, Lethbridge, Alta, Can.

GORSUCH, DR. JOHN H(ENDERSON), b. Patton, Pa, July 19, 10; m. 39. CLINICAL PSYCHOLOGY. B.S, Pa. State Col, 31; M.A, Pittsburgh, 37, Ph.D.(clin. psychol), 42. Jr. psychologist, West. State Penitentiary, Pittsburgh, Pa, 33-37; psychologist, Pa. Indust. Sch, Huntingdon, 37-41, sr. psychologist & indust. counsr, Camp Hill, 41-42; clin. psychologist, U.S. Pub. Health Serv. Hosp, Ky, 42; sr. res. investr, Nat. Defense Res. Cmt, Pa, 42-43. projs. dir. 43-45; coordinator of placement & develop, Carnegie-Ill. Steel. 46-47; with indust. rel. staff, U.S. Steel Corp. of Del, 47-51, asst. dir. personnel-commercial, U.S. STEEL CORP, 51-58, asst. to dir, training & develop, 58-62, res. assoc, 62-66. INDUST. PSYCHOLOGIST, 66- Lectr, Pittsburgh, 47-50. Diplomate, Am. Bd. Exam. Prfnl. Psychol. AAAS; fel. Psychol. Asn. Criminal psychology; executive personnel administration. Address: U.S. Steel Corp, 525 William Penn Place, Pittsburgh, Pa. 15230.

GORSUCH, DR. RICHARD L(EE), b. Wayne, Mich, May 14, 37; m. 61; c. 2. PSYCHOLOGY. B.A, Texas Christian, 59; Nat. Inst. Ment. Health fel, Illinois, 61-63, M.A, 62, Ph.D.(psychol), 65. Res. assoc. PSYCHOL, VANDERBILT, 63-65, instr, 65-66, ASST. PROF, 66- Dir. statist. consult, Vanderbilt Comput. Center, 66-; mem. exec. cmt, Center Community Studies, 66- Psychol. Asn; Soc. Sci. Study Relig. Personality; multivariate methods; social psychology; psychology of religion. Publ: Co-auth, Anxiety, threat and awareness in verbal conditioning, J. Personality, 66, auth, Dimensions of the conceptualization of God, In: Inter-national yearbook for the sociology of religion, 67; co-auth, Personality and values: self and superego structures, In: Handbook of modern personality theory, Aldine, 68. Address: Dept. of Psychology, Vanderbilt University, Nashville, Tenn. 37203.

GORT, PROF. MICHAEL, b. Russia, Sept. 30, 23; nat. ECONOMICS. Soc. Sci. Res. Coun. fel, Columbia, 49-50, Ph.D.(econ), 54. Econ. analyst, U.S. Treasury Dept, 45-47; lectr. econ, California, 51-54; res. assoc, Nat. Bur. Econ. Res, 54-57; assoc. prof. finance, grad. sch. bus, Chicago, 57-62; consult, U.S. Dept. Commerce, 62-63; PROF. ECON, STATE UNIV. N.Y. BUFFALO, 63- Vis. prof, Northwestern, 67-68. Consult, U.S. Fed. Trade Cmn, 66-67. Econ. Asn; Royal Econ. Soc; Statist. Asn. Industrial organization; finance. Publ: Diversification and integration in American industry, Princeton, 62; The analysis of stability and change in market shares, J. Polit. Econ, 2/63; co-auth, Vintage effects and the time path of investment in production relations, Studies Income & Wealth, 67. Address: Dept. of Economics, State University of New York at Buffalo, Buffalo, N.Y. 14214.

GORTER, DEAN WYTZE, b. San Francisco, Calif, Apr. 27, 14; m. 38; c. 2. ECONOMICS. Ph.D.(econ), Stanford, 48. Lectr. econ, California, Los Angeles, 47-48, asst. prof, 48-53, assoc. prof, 53-59, prof, 59-64; PROF. ECON. & DEAN GRAD. DIV, HAWAII, 64-, DIR. RES, 65- Carnegie res. fel, Coun. For. Rels, 53-54; Fulbright lectr. & Guggenheim fel, Groningen, 58-59. Consult, U.S. Off. Ed, 66. Qm.C, U.S.A, 43-46, 2nd Lt. Econ. Asn. International trade policy; industry studies. Publ: Co-auth, Pacific Coast maritime shipping industry, Univ. California, Vols. I & II, 52 & 54; auth, United States shipping policy, Harper, 56; United States Merchant Marine policies. Address: Graduate Division, University of Hawaii, 2540 Maile Way, Honolulu, Hawaii 96822.

GORVINE, PROF. ALBERT, b. Boston, Mass, Mar. 30, 22; m. 45; c. 2. POLITICAL SCIENCE. A.B, Harvard, 44; M.S, Denver, 47, Ph.D, N.Y. Univ, 50. Asst. prof. POLIT. SCI, BROOKLYN COL, 49-61, PROF, 61-, DEP. CHMN. DEPT, 51- Assoc. prof, N.Y. Univ. prog, Univ. Ankara, res. adv, Pakistan Admin. Staff Col, 61-63; lectr, econ. seminar center, U.S. Civil Serv. Cmn, 64-66. Consult, admin. tech. assistance res. proj, Syracuse, 63-64; Philippine Exec. Acad, Univ. Philippines, summer, 64 & 66- U.S. del, Cent. Conf. Role Local Govt. & Int. Develop, Ankara, 65. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. American government; comparative public administration; comparative local government; political development; technical assistance. Publ: Co-auth, Dacca urban division: a proposal, Pakistan Admin. Staff Col, 63; auth, The Revelle report: a case study in administration of technical assistance, Inter-Univ. Case Prog. Series, 68; Administrative reform: function of political and economic change, In: Administrative problems in Pakistan, Syracuse Univ, 66. Address: Dept. of Political Science, Brooklyn College, Brooklyn, N.Y. 11210.

GOSFIELD, DR. AMOR, b. Croton, N.J, Jan. 4, 10. ECONOMICS. A.B, Pennsylvania, 29, Ph.D.(econ), 64; fel, Claremont Col, 32-33. Physicist, U.S. Dept. Navy, 42-46; instr. econ, Pennsylvania, 46-49, 51-54; dir. interindust. res. proj. & lectr, Puerto Rico, 49-51; assoc. prof. econ. & finance, Duquesne, 54-55; lectr. ECON, Pittsburgh, 55-56, asst. prof, 56-59; prof. & chmn. dept, Cornell Col, 59-61; lectr, Pennsylvania, 61-62; lectr, California, Santa Barbara, 64-66; prof, Calif. State Col. Dominguez Hills, 66-67; LECTR, CALIFORNIA, SANTA BARBARA, 67- Consult, coun. econ. & indust. res. contract, Int. Coop. Admin, 56; Pittsburgh & Lake Erie R.R, 59; Excel-Mineral Co, Calif, 62-64; DRC Inc, 66. Econ. Asn; Econmet. Soc. Interindustry analysis, underdeveloped economics; economic theory; comparative economic systems. Publ: Input-output analysis of the Puerto Rican economy; contrib, Input-output analysis: an appraisal & How to select dynamic industrial projects. Address: 822 Jimeno Rd, Santa Barbara, Calif. 93103.

GOSLIN, DR. DAVID ALEXANDER, b. New York, N.Y, Oct. 27, 36; div; c. 1. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Swarthmore Col, 58; M.A, Yale, 59, Ph.D.(sociol), 62. SOCIOLOGIST, RUSSELL SAGE FOUND, 61- Lectr, N.Y. Univ, 61-62; Russell Sage Found. res. grants, 62-; assoc. Columbia, 61-65, adj. assoc. prof, Teachers Col, 66-, res. assoc, Horace Mann-Lincoln Inst, 66, task force chmn, study D.C. schs, teachers col, 66-67; assoc. prof, grad. sch. ed, Hunter Col, 66; sociologist-designer, sociol. resources sec. schs, Nat. Sci. Found-Am. Sociol. Asn, 66-; summer vis. prof, California, Los Angeles, 66. Consult, adv. cmt, surv. equal ed.opportunities, U.S. Off. Ed-Ed. Testing Serv, 65-66; off. econ. opportunity-responsive environ. projs, center. ed. tech, Catholic Univ, 66-67; spec. consult, Col. Bd. Cmn. on Testing, 67. Sociol. Asn. Interpersonal perception and social adjustment; social consequences of ability testing; sociology of education; socialization. Publ: Search for ability: standardized testing in social perspective, Russell Sage, 63, Wiley, 66; School in contemporary society, Scott, 65; Teachers and testing, Russell Sage, 67. Address: Russell Sage Foundation, 230 Park Ave, New York, N.Y. 10017.

GOSLING, DR. LEE A(NTHONY) P(ETER), b. Cleveland, Ohio, Nov. 14, 27; m. 49; c. 3. GEOGRAPHY. B.A, Michigan, 52, M.A, 53, Ford Found. fel, 54-56, Ph.D, 58. Instr. GEOG. MICHIGAN, 57-59, asst. prof, 59-63, ASSOC. PROF, 63-, CHMN. DEPT, 66- Smith-Mundt vis. prof, Univ. Malaya, 61-62; dir. Center South & Southeast Asian Studies, Univ. Michigan, 62-66. Chmn. cmt. adv. geog, Nat. Acad. Sci-Nat. Res. Coun, 63-65. U.S.N.R, 45-47. Asn. Am. Geog; Am. Geog. Soc; Asn. Asian Studies.(secy, 63-66). Cultural and

economic geography of Southern and Eastern Asia, especially economic and agricultural changes in rural areas; transportation development in Southeast Asia. Address: Dept. of Geography, University of Michigan, Ann Arbor, Mich. 48104.

GOSNELL, PROF. HAROLD F(OOTE), b. Lockport, N.Y, Dec. 24, 96. POLITICAL SCIENCE. A.B, Rochester, 18; Ph.D, Chicago, 22. Instr. polit. sci, Chicago, 22-26, asst. prof, 26-32, assoc. prof, 32-43; res. consult, Bur. Budget, 42-46; U.S. Dept. State, 46-50; U.S. Govt, 50-60; adj. prof. POLIT. SCI, American Univ, 47-60, res. prof, 60-61; PROF, HOWARD, 62- Soc. Sci. Res. Coun. fel, 25-26; Spelman Fund fel, 33. Res. consult, Nat. Resources Cmt, 37-; Bur. Budget, 40-; Off. Price Admin, 41-42. Anisfield award, 35. Polit. Sci. Asn; Soc. Pub. Admin; Asn. Pub. Opinion Res. Political parties and elections; political statistics. Publ: Democracy: threshold of freedom; Champion campaigner: Franklin D. Roosevelt; Negro politicians, Univ. Chicago, 66. Address: 5408 Wilson Lane, Bethesda, Md. 20014.

GOSS, PROF. ALBERT E(DWARD), b. Lone Tree, Iowa, May 10, 23; m. 45. PSYCHOLOGY. B.A, Iowa, 45, M.A, 47, Ph.D.(exp. psychol), 48. Instr. PSYCHOL, Massachusetts, 48-49, asst. prof, 49-53, assoc. prof, 53-56, PROF, 56-66; DOUGLASS COL, RUTGERS, 66- Vis. asst. prof, Mt. Holyoke Col, 51-52; summers, sr. res. scientist, Human Res. Unit, Ky, 55, vis. prof, California, Los Angeles, 57. U.S.A.A.F, 43-44. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc. Verbal learning and behavior; general behavior theory. Publ: Co-auth, Paired-associates learning, Academic, 65; auth, Verbal mediating responses and concept formation, Psychol. Rev, 61; Verbal mediation, Psychol. Reports, 64. Address: Dept. of Psychology, Douglass College of Rutgers, The State University, New Brunswick, N.J. 08903.

GOSS, DR. HILTON P(ROCTOR), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 66.

GOSS, DR. MARY E. W(EBER), b. Chicago, Ill, May 8, 26; m. 45. SOCIOLOGY. B.A, Iowa, 47, M.A, 48; Gilder fel, Columbia, 51-52, Ph.D, 59. Instr. sociol, Smith Col, 49-50; Massachusetts, 50-51, 55-56; res. assoc, bur. appl. soc. res, Columbia, 52-53; res. assoc. SOCIOL. IN MED, MED. COL, CORNELL, 59-62, asst. prof, 62-67, ASSOC. PROF, 67- Consult, comprehensive care and teaching prog, New York Hosp-Cornell Med. Center, 57-61. AAAS; fel. Sociol. Asn; fel. Pub. Health Asn; Acad. Polit. & Soc. Sci. Sociology of medicine; occupations and complex organizations. Address: 525 E. 68th St, New York, N.Y. 10021.

GOSSELIN, PROF. EMILE, b. Amos, Que, Jan. 9, 22; m. 49; c. 3. PUBLIC ADMINISTRATION, INDUSTRIAL RELATIONS. B.A, Montreal, 42, LL.L, 45; M.A, Toronto, 47; Chicago, 47-49. Lawyer, Drouin & Gosselin, 45-46; asst. prof. labor econ, Laval, 49-54, assoc. prof. pub. admin. & hist. soc. thought, 54-59, prof, 59-65; SR. PROF. PUB. LABOR UNIONS & PRIN. OF ADMIN, MONTREAL, 65- Res. assoc, Cornell, 49-54; joint arbitrator, Dept. Ed, Prov. Que, 67- Consult, Glassco Cmn, Ottawa, 62- Impartial chmn, Aluminum Co. Can, 57-60. Indust. Rels. Res. Asn; French-Can. Asn. Adv. Sci; Can. Inst. Pub. Admin. (co-ed, J. Can. Pub. Admin, 61-). Nature, functions, territory of municipal corporations and municipal finance; factors affecting the forest labor force; underdeveloped communities study; staff relations and appeal procedures in the civil services; staff relations in the local and regional school commissions, Prov. Que; functions of higher learning institutions. Publ: People of cove and woodlot, In: Basic books; Principes genêraux de l'administration municipale; La troisième solidude, Montreal, 65. Address: Faculty of Social Sciences, University of Montreal, Montreal, Que, Can.

GOTTERER, PROF. MALCOLM HAROLD, b. New York, N.Y, Mar. 11, 24; m. 57. COMPUTER SCIENCE. B.S, Suffolk, 55, M.S, 56; fel, Harvard, 57-58, D.B.A, 60. Indust. engr, chief indust. engr, mgt. consult. & asst. to pres, 46-54; instr. bus, grad. sch. bus, Harvard, 56-57; asst. prof, California, Berkeley, 59-62; assoc. prof. indust. mgt, Ga. Inst. Tech, 62-64; PROF. BUS. ADMIN. & COMPUT. SCI, PA. STATE, 65- Ford Found. summer res. grant, Cornell, 60; Soc. Sci. Res. Coun. res. grants, Inst. Math. Models, Princeton, summer 62 & info. processing div, Syst. Develop. Corp, Calif, 65; Int. Bus. Mach. Systs. Res. Inst. fel, New York, 64. Consult, Center Comput. Sci. & Tech, Nat. Bur. Standards, 66-68; HumRRO, George Washington, 67. Prin, sect. cmt. computers & info. precessing & cmt. credit card standardization, U.S. Am. Standards Inst; mem. U.S. cmt. admin. data processing group, Int. Fedn. Info. Processing. U.S.A, 43-45. Asn. Comput. Mach; Inst. Mgt. Sci; Opers. Res. Soc; Inst. Elec. & Electronics Eng; Asn. Ed. Data Systs. Applied quantitative methods; economics of information and management of computer facilities leading to a broad cost benefit model of an information system. Publ: Co-auth, Computers in business: a FORTRAN introduction, Int. Textbook, 67; auth, On the development of a supervisory sequencing routine, In: On line data processing, Trans. Commun. & Electronics, 63; Identification of performance criteria of an electronic information system, In: Electronic handling of information: testing and evaluation, Thompson, 67. Address: College of Business Administration, 120 Boucke Bldg, Pennsylvania State University, University Park, Pa. 16802.

GOTTESMAN, DR. IRVING I(SADORE), b. Cleveland, Ohio, Dec. 29, 30; div; c. 1. PSYCHOLOGY. B.S, Ill. Inst. Tech, 53; U.S. Pub. Health Serv. fel, Minnesota, 56-59, Ph.D.(clin. & child psychol), 60. Trainee clin. psychol, Vet. Admin, 59-60; lectr. child psychol, Harvard, 60-63, Nat. Inst. Ment. Health res. grant, 61-63; U.S. Pub. Health Serv. spec. fel, Med. Res. Coun, psychiat. genetics unit, Maudsley Hosp, London, Eng, 63-64; assoc. prof. psychol, sch. med, North Carolina, 64-66; PSYCHOL. & GENETICS, MINNESOTA, MINNEAPOLIS, 66-68; PROF, 68- Coordinator res. & training, behav. genetics training prog, Minnesota, Minneapolis. Mem. bd. dirs, Minn. Human Genetics League. Wilson award, 65. U.S.N, 53-56, Res, 56-61, Lt. Psychol. Asn; Soc. Res. Child Develop; Soc. Human Genetics. Genetics of normal and abnormal human behavior; child rearing practices; clinical psychology. Publ: Co-auth, The contribution of twin studies to perspectives on schizophrenia, In: Progress in experimental personality research, Academic, 66; A polygenic theory of schizophrenia, Science, 67 & Proc. Nat. Acad. Sci, 67; auth, A sampler of human behavioral genetics, In: Evolutionary biology, Appleton, 68. Address: Dept. of Psychology, University of Minnesota, Minneapolis, Minn. 55455.

GOTTESMAN, DR. LEONARD E(DMUND), b. Cleveland, Ohio, Nov. 4, 30; m. 32; c. 2. CLINICAL PSYCHOLOGY. B.A, Western Reserve, 53; univ. fel. & M.A, Chicago, 58, U.S. Pub. Health Serv. fel. & Ph.D.(psychol), 59. Interviewing supvr, Nat. Opinion Res. Center, Ill, 56; intern, counseling center & asst, univ, Chicago, 57-59; instr. psychol. & psychologist, MICHIGAN, 59-62, LECTR. PSYCHOL, 62-, CO-DIR. RES. GERONT, 65-; RES. ASSOC. & LECTR, INST. GERONT, MICHIGAN & WAYNE STATE, 67-; asst. study dir. geront, Michigan, 62-64, proj. res. dir, 64-65. Consult, Vet. Admin. Hosp, Dearborn, 67-; mem. planning cmt, Int. Cong. Geront, 67-; exec. cmt, inst. geront, Michigan & Wayne State, 67- U.S.A, 53-55. Psychol. Asn; Geront. Soc.(pres, 69). Psychopathology; gerontology; psychology; community psychology. Publ: The response of long-hospitalized aged psychiatric patients to milieu treatment, Proc. Int. Cong. Geront, 66; co-auth, Training psychologists for new roles in the mental hospital, J. Mich. Dept. Psychol. & Ment. Health, 10/67; auth, The application of psychological research to social action in gerontology, J. Community Ment. Health, (in press). Address: 388 Brookside Dr, Ann Arbor, Mich. 48105.

GOTTFRIED, DR. ALEX, b. Hungary, Oct. 23, 19; nat; m. 43; c. 1. POLITICAL SCIENCE. Ed.B, Chicago Teachers Col, 41; Northwestern, 43; summer, California, 47; Morton scholar, Chicago, 47-48, A.M, 48, Walgreen fel, 49-50, Ford fel, 51-52, Ph.D.(polit. sci), 52. Lectr. POLIT. SCI, Chicago, 48-49; asst. prof, Washington (Seattle), 50-60; Stanford, 60-61; ASSOC. PROF, WASHINGTON (SEATTLE), 61-, grad. sch. grants, 53-54, 54-55, 61. Res. grants, Agnes Anderson, 59, Citizenship Clearing House, 56, 59, Eagleton Inst, 60, Ford Found, 61. U.S.A.A.F, 41-46, Maj. Polit. Sci. Asn. Political parties, pressure groups and public opinion; American foreign policy, government and politics. Publ: Boss Cermak of Chicago: a study in political leadership; Use of psychosomatic categories in a study of political leadership, In: Political behavior; Machine politics, In: Encyclopedia of Social Science, 67. Address: 4811 N.E. 107th, Seattle, Wash. 98125.

GOTTFRIED, DR. NATHAN WOLF, b. New York, N.Y, June 14, 28; m. 53; c. 2. PSYCHOLOGY. A.B, Antioch Col, 50; M.A, Columbia, 51; Ph.D.(psychol), Ohio State, 58. Psychologist, pub. schs, Ohio, 55-59; asst. prof. psychol, Miami (Ohio), 59-64; ASSOC. PROF, Minn. sch. math. & sci. proj, Univ. Minnesota, 64-67; PSYCHOL, LA. STATE, 67- U.S.M.C, 51-53. AAAS; Psychol. Asn. Language behavior in small groups; mental retardation; analysis of linguistic structure in development; development of concepts; language development; mathematical concepts; instructional variables in concept development. Publ: Co-auth, The social distance of the exceptional: a study at the high school level, Except. Children, 66, & Psychological needs and verbally expressed aggression of adolescent delinquent boys, J. Psychol, 66; auth, The relationship of concepts of conservation of number and length, J. Genetic Psychol, 68. Address: Dept. of Psychology, Louisiana State University, Baton Rouge, La. 70803.

GOTTHEIL, DR. EDWARD, Psychiat, Psychol, see 11th ed, Phys. & Biol. Vols.

GOTTLIEB, BERTRAM, b. New York, N.Y, Feb. 9, 21; m. 40; c. 3. INDUSTRIAL & LABOR RELATIONS, INDUSTRIAL ENGINEERING. B.S, Ill. Inst. Tech, 49, M.S, 50; Wisconsin, 50-57. Instr. econ, Ill. Inst. Tech, 48-50; labor rels, Wisconsin, 50-54, prof, 56-57; Univ. Connecticut prof, Philippines, 54-56; indust. engr, Am. Fedn. Labor-Cong. Indust. Orgn, 57-66; vis. prof. labor rels, Iowa, 66-67; asst. dir. dept. res, Am. Fedn. Labor-Cong. Indust. Orgn, 67-68; DIR. RES, TRANSPORTATION INST, 68- Consult, U.S. Dept. Labor Adv. Cmn. Productivity, Tech. & Growth & Cmn. Wages & Indust. Rels, 50-; cmn. standardization indust. eng. terminology, U.S.A. Standards Inst, 64-; U.S. Dept. Commerce Tech. Adv. Bd, 67-; labor adv. cmt, Univ. Iowa, 67- U.S.A.A.F, 43-46, S/Sgt. Inst. Indust. Eng; Indust. Rels. Res. Asn. Impact of industrial engineering on industrial and labor relations and collective bargaining; industrial use of polygraphs closed circuit television and other forms of surveillance and the preservation of individual privacy. Publ: Co-auth, An experiment in industrial harmony, In: Readings in industrial and business psychology, McGraw, 52; auth, The truth about lie detectors, Am. Federationist, 11/64; Unions and industrial engineering, In: Handbook of industrial engineering and management, Prentice-Hall, 2nd ed, (in print). Address: 703 Hillsboro Dr, Silver Spring, Md. 20902.

GOTTLEIB, PROF. DAVID, b. U.S, July 7, 30; m. 55; c. 4. SOCIOLOGY. B.A, Wayne State, 53; Ph.D, Chicago, 60. Res. assoc. sociol, Wayne State, 51-53; res. analyst, Soc. Res. Inc, Ill, 55-57; lectr. sociol, Northwestern, 57-58; asst. study dir, nat. opinion res. center, Chicago, 58-60; asst. prof. sociol. & anthrop, Mich. State, 60-62, assoc. prof, 62-64; assoc. dir. plans & progs, Job Corps Off. Econ. Opportunity, 64-67; PROF. SOCIOL. & DIR. DIV. COMMUNITY SERV, COL. HUMAN DEVELOP, PA. STATE, 67- Consult, Peace Corps; res. adv. & consult, U.S. Soc. Security Admin; consult, Presidents Cmt. Sci. & Tech, 63-64; V.Presidents Cmt. Youth, 64-67; Off. Econ. Opportunity, 67- U.S. Merchant Marines, 53-55. Sociol. Asn; Ed. Res. Asn. Attitude change; sociology of higher education research on adolescent socialization and value systems; education and socialization of disadvantaged youth. Publ: Co-auth, Adolescent behavior in urban areas, 63 & The emergence of youth cultures, 66, MacMillan; The American adolescent, Dorsey, 64. Address: College of Human Development, Pennsylvania State University, State College, Pa. 16801.

GOTTLIEB, DR. GILBERT, Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GOTTLIEB, DR. MANUEL, b. Grass Valley, Calif, Aug. 29, 13; m. 44; c. 4. DEMOGRAPHY, ECONOMICS. B.A, Minnesota, 38; M.A, California, 41; Littauer fel, Harvard, 50-52, Ph.D.(econ. & polit), 52. Economist, Off. Price Admin, D.C, 42-45; U.S. Mil. Govt, Germany, 45-48; vis. asst. prof. ECON, Colgate, 48-50; asst. prof, Univ. Kansas City, 52-56; assoc. prof, Kansas, 56-59; WISCONSIN, MILWAUKEE, 59-63, PROF, 63- Res. collaborator, Nat. Bur. Econ. Res, 61- Int. Union Sci. Study Pop. Industrial economics; population; Marxian economics; economic theory; business cycles; finance. Publ: Estimates residential building U.S. 1840-1939, Nat. Bur.

Econ. Res, 64; Value and price in industrial markets, Econ. J; Theory of an economic system, Proc. Am. Econ. Rev. Address: Dept. of Economics, University of Wisconsin, Milwaukee, Wis. 53211.

GOTTMANN, PROF. JEAN I(ONA), b. Kharkov, Russia, Oct. 10, 15; m. 57. ECONOMIC & POLITICAL GEOGRAPHY. Dipl, Paris, 34, Lic. es Litt, 37. Assoc. prof. econ. geog, Hopkins, 43-48; res. fel, French Nat. Sci. Res. Center, Paris, 48-51; res. dir. study megalopolis, Twentieth Century Fund, 56-62; PROF. GEOG, OXFORD, 68- Rockefeller fel, 42-44; mem. hist. studies, Int. Adv. Study, 42-61; div. dir. UN Secretariat, N.Y, 46-47; prof, Institut D'Etudes Politiques, Paris, 48-61, Ecole Pratique des Hauted Etudes, 59-68; vis. prof, Southern Illinois, 64-68; California, Berkeley, 66. Consult, bd. econ. warfare, 42-44; planning adv, French Govt, Paris, 45-46. Mem, Delos Symposion, Athens, Greece, 64-; bd. dirs, Inst. Am. Studies, Paris, 66-; cmt. resources & man, Nat. Acad. Sci, 66-68; cmt. cartography, Royal Col. Art, 67- Asn. Am. Geog; fel. Geog. Soc.(gold medalist, 64). Economic and political geography of Europe, the Americas, and the Middle East; general theory of economic and political geography. Publ: Geography of Europe; Virginia at midcentury; Megalopolis. Address: Dept. of Geography, University of Oxford, Mansfield Rd, Oxford, Eng.

GOTTSCHALK, PROF. LOUIS, Mod. French Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GOTTSCHALL, DEAN MORTON, b. New York, N.Y, Oct. 16, 94; m. 47. BUSINESS LAW, HISTORY. A.B, City Col. New York, 13, hon. L.H.D, 63; J.D, N.Y. Univ, 17. Tutor hist, CITY COL. NEW YORK, 13-18, instr. hist. & bus. law, 18-23, asst. prof, 23-29, assoc. prof, 29-33, prof, 33-56, recorder, 18-29, lectr. legal philos, 20, 25, registr, 29-33, dean COL. LIB. ARTS & SCI, 34-63, EMER. DEAN, 63- Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Business law; history. Address: 430 W. 24th St, New York, N.Y. 10011.

GOTTSDANKER, PROF. ROBERT M, b. Los Angeles, Calif, Mar. 25, 17; m. 45; c. 2. PSYCHOLOGY. A.B, California, 38, Ph.D.(psychol), 41. Personnel res. technician, Soc. Security Bd, Wash, D.C, 41-42; instr. psychol, George Washington, 42-43; job analyst, Kaiser Co, Calif, 43-44; res. assoc, Nat. Defense Res. Cmt. contract, Tufts Col, 44-45; instr. psychol, N.Y. Univ, 45-46; from instr. to asst. prof. psychol. & res. assoc, Tufts Col, 46-49; from asst. prof. to PROF. PSYCHOL, CALIFORNIA, SANTA BARBARA, 49-, chmn. dept, 55-61, 64-65. AAAS; fel. Psychol. Asn. Perceptual motor skill. Publ: Accuracy of prediction motion, J. Exp. Psychol; co-auth, Identifying the acceleration of visual targets, Brit. J. Psychol; auth, The effect of superseding signals, Quart. J. Exp. Psychol, 66. Address: Dept. of Psychology, University of California, Santa Barbara, Calif. 93106.

GOTTSEGEN, DR. JACK JACOB, b. Brooklyn, N.Y, Mar. 4, 07; m. 39; c. 1. STATISTICS, ECONOMICS. B.A, Amherst Col, 28; M.B.A, Harvard, 30; Ph.D, Columbia, 40. Instr. econ, City Col. New York, 30-41; price economist, U.S. Bur. Labor Statist, 41-47, chief, chem. fuels & miscellaneous minerals sect, indust. price div, 41-47; supvry. surv. statistician, indust. div, U.S. BUR. CENSUS, 47-64, CHIEF, MAT. & COMMODITY DATA BR, 59-; ASST. TO CHIEF, NAT. ECON. DIV, OFF. BUS. ECON, U.S. DEPT. COMMERCE, 64- Chief, chem, petrol, rubber & nonmetallic br, U.S. Bur. Census, 51-58. Consult, War Prod. Bd, 41-44. Mem. tech. staff, Presidents Cmt. Fact Finding & Cmt. Petrol. Indust, 46. Silver medal, U.S. Dept. Commerce, 57. Econ. Asn; Statist. Asn. Statistics; price theory; marketing practices; utilization of energy sources; real product by industry. Publ: Tobacco: a study of U.S. consumption; Revised estimates of GNP by major industries, Surv. Current Bus, 4/67; co-auth, Comparison of FRB and OBE measures of real manufacturing output: 1947-64, In: Studies in Income and Wealth, Vol. 32, Nat. Bur. Econ. Res, 67. Address: 3533 Cumberland St. N.W, Washington, D.C. 20008.

GOUDZWAARD, DR. MAURICE B, b. Grand Rapids, Mich, Feb. 4, 38. BUSINESS ADMINISTRATION, FINANCE. B.A, Mich. State, 61, M.B.A, 62, Household Finance Found. fel. & Ph.D.(bus. admin), 65. ASST. PROF. BUS. ADMIN. & FINANCE, CALIFORNIA, LOS ANGELES 65- Mem, Nat. Conf. Cmnr. Uniform State Laws, 66. Finance Asn. Consumer finance, particularly consumer finance companies and their role in credit costs and credit availability; mergers and the criteria for establishing terms of exchange in mergers. Publ: Price ceilings and credit rationing, J. Finance, 3/68. Address: 6347 Graduate School of Business, University of California, Los Angeles, Calif. 90024.

GOUGH, PROF. E(LEANOR) KATHLEEN, Anthrop, see ABERLE, PROF. E(LEANOR) KATHLEEN GOUGH.

GOUGH, PROF. HARRISON G, b. Buffalo, Minn, Feb. 25, 21; m. 43; c. 1. PSYCHOLOGY. B.A, Minnesota, 42, Soc. Sci. Res. Coun. fel, 46-47, M.A, 47. Ph.D.(psychol), 49. Instr. PSYCHOL, Minnesota, 47-48, asst. prof, 48-49; lectr, CALIFORNIA, BERKELEY, 49-51, asst. prof, 51-54, assoc. prof, 54-60, PROF, 60-, CHMN. DEPT, 67- Fulbright res. scholar, Florence, Italy, 58-59, Rome, 65-66; Guggenheim fel, 65-66. Consult, Vet. Admin, 50-; State Dept. Corrections, 57- Mem. res. adv. cmt, Calif. State Dept. Ment. Hyg, 64- U.S.A, 42-46, 1st Lt. Fel. Am. Psychol. Asn; Int. Asn. Appl. Psychol. Personality assessment; diagnostic methods in clinical psychology; test construction. Publ: California psychological inventory, Consult. Psychol. Press, 57; Tests of personality and temperament, In: Encyclopedia Britannica, 61; Adjective check list, Consult. Psychol. Press, 65. Address: Dept. of Psychology, University of California, Berkeley, Calif. 94720.

GOUKE, DR. CECIL GRANVILLE, b. Brooklyn, N.Y, Dec. 5, 28; m. 64. ECONOMICS. B.A, City Col. New York, 56; M.A, N.Y. Univ, 58, Ph.D.(econ), 67. Instr. econ, Fisk, 58-60; res. asst. ed, Phelps-Stokes Fund, N.Y, 60-61; ECON, N.Y. Univ, 61-62, instr, 62; asst. prof, Grambling Col, 62-64, assoc. prof, 64-67; CHMN. DEPT. ECON, HAMPTON INST, 67- U.S.A, 47-49, 50-51. Econ Asn; Statist. Asn; Indust. Rel. Res. Asn. Labor economics; money and banking; statistics; economic theory; history of economic thought. Address: P.O. Box 6044, Hampton Institute, Hampton, Va. 23368.

GOULD, BURTON M(ARVIN), b. Chicago, Ill, Sept. 7, 26; m. 59. ECONOMICS. B.A, Roosevelt, 49; M.A, Chicago, 51. Price & bus. economist, Off. Price Stabilization, 51-52; econ. officer, U.S. Dept. State, 52-53, 55-57; consult, W.J. Levy Assocs, 53-54; prog. officer, UN Korean Reconstruct. Agency, 54-55; economist, U.S. Opers. Mission to Pakistan, 57-61; Mission to Nigeria, U.S. AGENCY INT. DEVELOP, 61-65, officer in charge, Congo, Rwanda & Burundi affairs, 65-67, PROG. OFFICER, MISSION TO ETHIOPIA, 67- U.S.N, 43-46. Econ. Asn. Economic development; international trade and finance; price theory and welfare economics. Address: U.S. Agency for International Development, American Embassy, APO New York 09319.

GOULD, DR. EDWARD, b. New Haven, Conn, Feb. 6, 32; m. 64. CLINICAL PSYCHOLOGY. B.A, California, Los Angeles, 58, U.S. Pub. Health Serv. fel, 60-62, M.A, 61, Ph.D.(clin. psychol), 65. Teaching asst. clin. psychol, California, Los Angeles, 62-63; clin. psychologist I, Patton State Hosp, 61-63, clin. psychologist II, 63-65; ASST. RES. PSYCHOLOGIST & ASST. PROF. PSYCHOL, CALIFORNIA, LOS ANGELES, 65- teacher exten, 67. U.S.N, 51-55. Psychol. Asn. Familial factors in psychopathology, psychotherapy and speech pathology. Publ: Co-auth; Six-contingent differences between male and female alcoholics, J. Clin. Psychol, 66 & Impact of authority on stuttering, J. Abnorm. Psychol, 67; auth, Effects of silence on stuttering, J. Abnorm. Psychol, 67. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

GOULD, DR. ERNEST MORTON, JR, Forest Econ, see 11th ed, Phys. & Biol. Vols.

GOULD, DR. HAROLD A, b. Boston, Mass, Feb. 18, 26; m. 55; c. 2. ANTHROPOLOGY. A.B, Rhode Island, 51; M.A, Ohio State, 54; Fulbright scholar, Lucknow, 54-55; Ph.D.(anthrop), Washington (St. Louis), 59. Asst. anthrop. & sociol, Ohio State, 51-54; anthrop, Washington (St. Louis), 55-56; instr. anthrop. & sociol, Kansas, 57-59; Nat. Sci. Found. fel, Lucknow, India, 59-60, Nat. Inst. Ment. Health, 60-62; Andrew W. Mellon fel, Pittsburgh, 62-63; asst. prof. ANTHROP, PITTSBURGH, 63-65, ASSOC. PROF, 65- U.S.N, 43-46. Am. Anthrop. Soc; Asn. Asian Studies; Royal Anthrop. Soc. Gt. Brit. & Ireland. Peasant society; urban society; social organization and social change in India. Address: Dept. of Anthropology, University of Pittsburgh, School of Liberal Arts, Pittsburgh, Pa. 15213.

GOULD, DR. IRWIN BERNARD, b. New York, N.Y, Jan. 20, 25; m. 59. PSYCHOLOGY. B.A, N.Y. Univ, 50; U.S. Off. Voc. Rehab. fel, Columbia, 56-57, Ph.D.(counseling psychol), 57. Rehab. interviewer, State Div. Voc. Rehab, N.Y, 52-53; rehab. counsr, Riverside Hosp, New York, 53-55, dir. rehab, 55-58; instr. group dynamics, sch. gen. studies, City Col. New York, 58; assoc. psychologist & fel. psychoanal. training, POST-GRAD. CENTER MENT. HEALTH, 59-63, MEM. FACULTY, 63-, SUPVR. & DIR. DRUG ADDICTION INST, 65- Moran Mem. Inst. lectr, St. Lawrence Univ, 57-58; private practice, 57-; lectr. & consult, N.Y. State Narcotics Cmn, 67- Youth care consult, N.Y. State Dept. Soc. Welfare, 65-; training consult, New York City Dept. Corrections, 66-; consult. to cert. bd, New York City Addiction Serv. Agency, 67- Proj. dir. training narcotics addiction for corrections personnel, Off. Law Enforcement Assistance, U.S. Dept. Justice; mem. voc. guid. sect, New York Welfare Coun, 55-57; cert. bd, New York City Off. Narcotics Coordinator, 67-; bd. adv, Oddysey House, 68- Cert. psychoanal, Post-Grad. Center Ment. Health, 63, cert. supvr. anal. & ment. health consult, 67. U.S.N, 43-46. Psychol. Asn. Drug addiction; juvenile delinquency; rehabilitation; psychoanalysis; community mental health. Publ: Drug addiction and delinquency: an experimental study in persistence under changing conditions of reinforcement; Specific approach to the vocational needs of adolescent users of narcotics at Riverside Hospital, Psychiat. Quart. Suppl. Address: 176 E. 75th St, New York, N.Y. 10021.

GOULD, DR. JAMES W(ARREN), b. Boulder, Colo, May 14, 24; m. 50; c. 5. INTERNATIONAL RELATIONS. B.A, Pennsylvania, 46; Paris, 46; M.A, Fletcher Sch. Law, 47, Ford Found. fel, 53-54, Ph.D, 55. Assoc. prof. HIST. & INT. RELS, SCRIPPS COL, 56-68, PROF, 68-; ASIAN STUDIES, GRAD. SCH, CLAREMONT COLS, 56-, asst. prof, men's col, 55-60. Guest prof, Munich, Germany, 60-61. Rep, Peace Corps, Malaysia, 64-66. U.S.A, 43-45. Polit. Sci. Asn; Hist. Asn; Asn. Asian Studies; Coun. For. Rels; Royal Asiatic Soc. Malaysian Br; Sabah Soc; Int. Studies Asn. Indonesia, especially American interests in Sumatra; history of international relations and organization. Publ: Americans in Sumatra; Nijhoff, 61; U.S. and Malaysia, Harvard, 68; Sumatra, America's pepperpot, Essex Inst. Hist. Collections, 56. Address: Balch Hall, Scripps College, Claremont, Calif. 91711.

GOULD, DR. JAY M(ARTIN), b. Chicago, Ill, Aug. 19, 15; m. 42; c. 2. ECONOMICS. Ph.D.(econ), Columbia, 46. Res. assoc, Nat. Bur. Econ. Res, 38-44; econ. staff, McGraw-Hill Co, 44-46; dir. mkt. res, Economet. Inst, 46-51; managing dir, Mkt. Statist, Inc, 51-66; PRIN. CONSULT, JAY M. GOULD ASSOC, 66- Lectr, Rutgers, 47-52. Econ. consult, 44-; res. dir, Sales Mgt. annual serv. Buying Power, 48- Econ. Asn; Statist. Asn; Mkt. Asn. Regional economic analysis; marketing research; sales quota setting. Publ: Sales forecasting; the technical elite, 66; Input-output studies of paper, glass, rubber and plastics, 67. Address: 60 E. 42nd St, New York, N.Y. 10017.

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information. Publ: Market value and the theory of investment of the firm, Am. Econ. Rev, 9/67; Adjustment costs in the theory of investment of the firm, Rev. Econ. Studies, 1/68. Address: Dept. of Business Economics, University of Chicago Graduate School of Business, Chicago, Ill. 60637.

GOULD, DR. JOHN W(ESLEY), b. Brooklyn, N.Y, Mar. 19, 22; m. 49; c. 4. MANAGEMENT, COMMUNICATIONS. A.B, Columbia, 48, M.A, 49, Ph.D. (acad. admin), 62. Instr. Eng, Stony Brook Sch, N.Y, 49-54; C.W. Post Col, Long Island, 55-56; asst. dir. univ. admissions, Columbia, 56-59, admin. asst. to dean, grad. sch. bus, 60-61; registr, Lafayette Col, 59-60; assoc. prof. mgt, Southern California, 61-65; acad. dean, Drury Col, 65-66; ASSOC. PROF. MGT. COMMUN, SOUTHERN CALIFORNIA, 66- C.Eng, A.U.S, 42-46. Bus. Commun. Asn; Nat. Soc. Study Commun; Int. Soc. Gen. Semantics. Academic deanship; personal and organizational factors affecting business communication. Publ: The academic deanship, Bur. Pub, Teachers Col, Columbia, 64. Address: Graduate School of Business Administration, University of Southern California, Los Angeles, Calif. 90007.

GOULD, DR. J(OSEPH) S(IDNEY), b. Russia, Dec. 8, 98. ECONOMICS. A.B, Clark, 21, A.M, 22; Columbia, 25; Ph.D, Brookings Inst, 29. Asst. prof, Delaware, 29-30; assoc. prof, 30-34, prof. econ. & head dept. econ. & bus. admin, 34-46, dir. bur. econ. & bus. res, 41-46; econ. adv, Japan-Korean Econ. Affairs Div, U.S. Dept. State, 45-47; chief econ. resources & mkt. staff, res. dept, Int. Bank Reconstruct. & Develop, 47-48; economist in charge, Far East Econ. Affairs Div, 48-50; econ. adv, Thailand Govt, 49-58; UN econ. adv, Indonesia, 58-60, Brunei, Southeast Asia, 61-68. Res. consult, Nat. Recovery Admin, 33-34; State Unemploy. Compensation Cmn, Del, 38-46. Chief econ. supply & resources div, Bd. Econ. Welfare & For. Econ. Admin, 42-45. Statist. Asn; Newcomen Soc. Recent changes in geographical location and size of petroleum refineries; the engineer's duty in a modern economic world. Publ: Thailand, a developing economy; Thailand's national income and its meaning; Some aspects of development programming in Indonesia. Address: 715 Lancaster Ave, Syracuse, N.Y. 13210.

GOULD, DR. LOYAL N(ORMAN), b. Chicago, Ill, May 5, 27; m. 49. JOURNALISM. B.A, Fla. State, 51; M.A, North Carolina, 54, Ph.D.(German philos), 55. Instr. German & French, Tex. Tech. Col, 55-56; reporter, Amarillo Daily News & Globe Times, Tex, 56-57; reporter & ed. statehouse correspondence, Associated Press, Nebr, 57-59, for. news ed, N.Y, 59-60, for. correspondent, W.Europe-E.Europe, 60-65; Nat. Broadcasting Co, Latin Am, Vietnam, Guam & Germany, 65-66; ASSOC. PROF. JOURNALISM & DIR. INT. JOURNALISM, OHIO STATE, 66- Summers, guest, Brit. For. Off. Wilton Park Conf, 67, media res. dir, SIPRI, Int. Inst. Peace & Conflict Res, Stockholm, Sweden, 68. U.S.N, 42-45. Asn. Ed. in Journalism. Comparative studies of international press. Address: Ohio State University School of Journalism, 242 W. 18th Ave, Columbus, Ohio 43210.

GOULD, DR. PETER R(OBIN), b. Coulesdon, Eng, Nov. 18, 32; m. 56; c. 3. GEOGRAPHY. B.A, Colgate, 56; univ. fel, Northwestern, 56-58, M.A, 57, Ford Found. fel, 58-59, Ph.D.(geog), 60. Asst. prof. GEOG, Syracuse, 60-63; PA. STATE, 63-65, ASSOC. PROF, 65- Consult, Spec. Opers. Res. Off, D.C, 61-; Ghana Govt. & U.S. Agency Int. Develop, 66; Mem, cross-cultural res. proj, Ford Found, 61-63; cmt. behav. & soc. sci, Nat. Acad. Sci, 67. Regional Sci. Asn; Asn. Am. Geog; Int. Peace Res. Asn. Economic and transportation geography, particularly in Africa; behavioral geography, mental maps and space utility surfaces. Publ: Africa: continent of change; Development of the transportation pattern in Ghana; On Mental maps. Address: Dept. of Geography, Pennsylvania State University, University Park, Pa. 16802.

GOULD, DR. RAYMOND F(RANCIS), b. Brattleboro, Vt, Mar. 14, 09; m. 35; c. 2. SOCIOLOGY. A.B, Princeton, 30; dipl, Columbia, 40; fel, North Carolina, 50-51, Ph.D.(sociol), 51. Regional dir, Am. Nat. Red Cross, 47-49; res. assoc, inst. res. soc. sci, North Carolina, 51-54, assoc. prof. soc. work, 51-54; soc. sci. analyst, Nat. Inst. Ment. Health, 54-59, soc. sci. consult, 59-67; CONSULT. SOC. POLICY, NAT. ASN. SOC. WORKERS, 67- U.S.A, 42; U.S.A.A.F, 43-46, Lt. Col. Sociol. Asn; Asn. Social Workers. Community and industrial mental health; social psychology of creativity. Publ: Co-auth, Future citizens all. Address: 13544 Glen Mill Rd, Rockville, Md. 20850.

GOULD, PROF. WESLEY L(ARSON), b. Cleveland, Ohio, May 15, 17; m. 46; c. 4. POLITICAL SCIENCE. A.B, Baldwin-Wallace Col, 39; A.M, Ohio State, 41; California, 41-42; Ph.D, Harvard, 49. Instr. govt, Northeastern, 46-49; asst. prof. POLIT. SCI, PURDUE, 49-58, assoc. prof, 58-61, PROF, 61- Vis. prof, Northwestern, 63-64; prof, Wayne State, 67- Res. grants, Soc. Sci. Res. Coun, 57, Am. Soc. Int. Law, 64-66 & U.S. Arms Control & Disarmament Agency, 66-68. Consult, Naval War Col, 60. Mem, London Inst. World Affairs. U.S.A, 42-45. AAAS; Am. Soc. Int. Law; Am. Polit. Sci. Asn; Hist. Asn; Soc. Legal & Polit. Philos; Acad. Polit. & Soc. Sci; Acad. Polit. Sci; Int. Polit. Sci. Asn; Int. Studies Asn. International law and relations; political theory; jurisprudence. Publ: Introduction to international law; co-auth, Relation between international law and municipal law in the Netherlands and the United States; auth, Law, laboratory, and anecdote: negotiations and the integration of data, World Politics, 1/65. Address: Dept. of Political Science, Wayne State University, Detroit, Mich. 48202.

GOULDING, DR. A(RNOLD) VICTOR, b. New York, N.Y, Dec. 31, 18; m. 44; c. 1. PSYCHOLOGY, SOCIOLOGY. B.S, Long Island, 41; M.A, Columbia, 47; Ph.D.(soc. psychol), N.Y. Univ, 58. Intern clin. psychol, State Prog, N.Y, 48; clin. psychologist, Auburn Prison, 48-54; parole officer, State Exec. Dept, 54-58; dir. test center, Pace Col, 58-59; CONSULT. & STAFF THERAPIST, BROOKLYN CENTER PSYCHOTHER, 59-; ASSOC. PROF. SOC. SCI, STATEN ISLAND COMMUNITY COL, 68-, asst. prof, 63-68. Private practice, 48-; lectr, Brooklyn Col, 59-61; Staten Island Community Col, 60- U.S.A.A.F, 41-46, Res, 46-, Lt. Col. AAAS; Psychol. Asn. Culture and personality; psychotherapy; language and communication with social deviates. Publ: Asocial behavior and the treatment of the individual, J. Correctional Work. Address: 191 Willoughby St, Apt. 16A, Brooklyn, N.Y. 11201.

GOULDNER, PROF. ALVIN W(ARD), b. New York, N.Y, July 29, 20; m. 66; c. 3. SOCIOLOGY. B.B.A, City Col. New York, 41; M.A, Columbia, 45, Ph.D.(sociol), 53. Res. sociologist, Am. Jewish Cmt, 45-47; asst. prof. sociol, Buffalo, 47-51; consult. sociologist, Standard Oil Co.(N.J), 51-52; assoc. prof. sociol, Antioch Col, 52-54; from assoc. prof. to prof, Illinois, 54-59; res. prof, soc. sci. inst, WASHINGTON (ST. LOUIS), 59-67, MAX WEBER RES. PROF. SOC. THEORY, 67-, chmn. dept. sociol. & anthrop, 59-64. Vis. lectr, Harvard, 56; fel, Center Adv. Study Behav. Sci, 61-62; vis. prof, Univ. Stockholm & Free Univ. Berlin, 65; Univ. Warsaw & Hebrew Univ, Israel, 66; Soc. Sci. Res. Coun. summer seminar fel, 51. Chief prin. investr, Pruitt-Igoe Proj, Nat. Inst. Ment. Health, 63-67. Founder, Trans-Action Mag. Award, Soc. Sci. Res. Coun, 52, res. award, 59. U.S.A, 42-43. Sociol. Asn; Soc. Study Social Probs.(pres, 60-61, 62); Sociol. Res. Asn. Problems in applying social science; sociological theory; organizational analysis; dimensions of moral codes; historical sociology. Publ: Patterns of industrial bureaucracy; Notes on technology and moral order; Enter Plato. Address: Dept. of Sociology, Washington University, St. Louis, Mo. 63130.

GOULDNER, DR. HELEN P, b. Seattle, Wash, Dec. 26, 23; m. 55; c. 1. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Puget Sound, 45; M.Ed, Washington (Seattle), 50; Soc. Sci. Res. Coun. fel, California, Los Angeles, 54-55, Ph.D.(sociol), 59. Lectr. sociol. & anthrop, Illinois, 58-59; assoc. prof. sociol. & chmn. dept, Lindenwood Col, 59-63; ASSOC. PROF. SOCIOL, WASHINGTON (ST. LOUIS), 63- Sociol. Asn; Soc. Study Social Probs; Soc. Psychol. Study Social Issues. Small groups; adoption; organizational analysis; cross-cultural research; adult friendship. Publ: Co-auth, Modern sociology, Harcourt, 63; auth, Dimensions of organizational commitment, Admin. Sci. Quart; co-auth, A factor analytic study of supervisory and group behavior, J. Appl. Psychol. Address: Dept. of Sociology, Washington University, St. Louis, Mo. 63130.

GOULET, DR. L(ARRY) R(AYMOND), b. Davenport, Iowa, Aug. 2, 39; m. 64; c. 2. PSYCHOLOGY. B.A, Moorhead State Col, 60; M.A, St. Louis, 62, Nat. Defense Ed. Act fel. & Ph.D.(psychol), 64. U.S. Pub. Health Serv. res. fel, 64-65; ASST. PROF. PSYCHOL. & RES. ASSOC. HUMAN RESOURCES RES. INST, WEST VIRGINIA, 65- Summer vis. res. prof, St. Louis, 67. Psychol. Asn; Soc. Res. Child Develop. Verbal learning; transfer of training; memory developmental learning processes; problem solving. Publ: Verbal learning and memory research with retardates: an attempt to assess developmental trends, In: International review of research in mental retardation, Vol. 3; Anxiety (drive) and verbal learning: implications for research and some methodological considerations & Verbal learning in children: implications for developmental research, Psychol. Bull. Address: Dept. of Psychology, West Virginia University, Morgantown, W.Va. 26506.

GOURARY, MINA H(ASKIND), Statist, see 11th ed, Phys. & Biol. Vols.

GOURE, L, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

GOUREVITCH, DR. GEORGE, Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GOURLEY, PROF. G(ERALD) DOUGLAS, b. Safford, Ariz, Apr. 5, 11; m. 37; c. 7. PUBLIC ADMINISTRATION. A.B, Southern California, 35, M.S, 51. Lectr. police admin, Southern California, 47-57; PROF. POLICE SCI. & ADMIN, CALIF. STATE COL. LOS ANGELES, 57-, CHMN. DEPT, 65-, head dept, 57-65, acting dean sch. fine & appl. arts, 64-65. Inspector, Los Angeles Police Dept, Calif, 37-57. Consult, President's Cmn. Law Enforcement & Admin. Justice, 65-67. U.S.N.A.F, 42-45, Lt. Comdr. Soc. Criminol; Soc. Pub. Admin; Int. Asn. Chiefs of Police. Police science and administration. Publ: Ed, Police science series, Glencoe; auth, Public relations and the police; Patrol administration. Address: Dept. of Police Science, California State College at Los Angeles, Los Angeles, Calif. 90032.

GOVE, PROF. SAMUEL K(IMBALL), b. Walpole, Mass, Dec. 27, 23. POLITICAL SCIENCE. B.S, Massachusetts, 47; M.A, Syracuse, 51, Nat. Munic. League fel, 55-56. Res. asst, ILLINOIS, URBANA, 50-51, res. assoc, INST. GOVT. & PUB. AFFAIRS, 51-54, res. asst. prof, 54-57, assoc. prof, 57-61, PROF, 61-, POLIT. SCI, 66-, DIR, 67-, acting dir, 61-62, 64-65, 66. Electron analyst, Am. Broadcasting Co, 64, 66; Consult, Am. Coun. Ed, 66- Mem. res. staff, State Cmn. Study State Govt, Ill, 50-51; State Auditor Pub. Accts, 57. U.S.N.R, 43-46, Lt.(jg). Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Polit. Sci. Asn. Governmental research; state and local government; public administration. Publ: Politics of higher education; co-auth, Legislative politics in Illinois and American state and local government. Address: 1201 W. Nevada St, Urbana, Ill. 61801.

GOVINDARAJULU, DR. ZAKKULA, Math, Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

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burgh, 65- U.S.N, 43-45, Lt.(jg). Ed. Res. Asn; Nat. Soc. Study Ed. Education: municipal-metropolitan government; psychology of learning; curriculum and instruction. Publ: Co-auth, Meeting the needs of the able student, 62 & auth, Curriculum development through school and university collaboration, 65, Univ. Pittsburgh; co-auth, The changing American school, Nat. Soc. Study Ed, 66. Address: 227 Administration Center, Bucknell University, Lewisburg, Pa. 17837.

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GOY, DR. ROBERT W(ILLIAM), Psychol, see 11th ed. Phys. & Biol. Vols. & Supp. II & IV.

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GRABOWSKI, DR. HENRY GEORGE, b. Scranton, Pa, Sept. 20, 40; m. 66. ECONOMICS. B.S, Lehigh, 62; M.A, Princeton, 64, Nat. Sci. Found. coop. fel, 64-65, Ph.D.(econ), 67. Res. asst. ECON, Princeton, 65-66; lectr, YALE, 66-67, ASST. PROF, 67- Econ. Asn. Economics of growth and technological change; microeconomic theory; urban analysis; industrial organization. Publ: Co-auth, A graph-oriented model for research management, In: Research program effectiveness, Gordon & Breach, 66; auth, The determinants and effects of industrial research and development, Princeton Univ. Economet. Res. Memo. 82, 9/66 & The determinants of industrial research and development expenditures, J. Polit. Econ, 4/68. Address: 21-C Coleman Rd, West Haven, Conn. 06516.

GRABURN, DR. NELSON H. H, b. London, Eng, Nov. 25, 36. ANTHROPOLOGY. B.A, Cambridge, 58; M.A, McGill, 60; Ph.D.(anthrop), Chicago, 63. Res. assoc. anthrop. fieldwork, Northwestern, 63-64; ASST. PROF. ANTHROP, CALIFORNIA, BERKELEY, 64- Fel. Anthrop. Asn. Social anthropological and linguistic research on the Labrador and Baffin Island Eskimos; history and cultures of Eskimos and Indians of the Ungava Peninsula; kinship in complex societies. Address: Dept. of Anthropology, Kroeber Hall, University of California, Berkeley, Calif. 94720.

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GRACE, DR. H(OBART) T(HEODORE), SR, b. Oakman, Ala, Nov. 20, 06; m. 35; c. 2. GEOGRAPHY. B.S, George Peabody Col, 30, M.A, 33; fel, Florida, 53; Ed.D, Colo. State Col, 57. Prin, jr. high sch, Tenn, 30-32; supv. prin. & supt, city schs, Enterprise, Ala, 33-48; assoc. prof. geog. & geol, Tampa, 48-52; ed, Fla. South. Col, 53-56, assoc. prof. soc. sci. & audio-visual dir, 57-60; prof. soc. sci, Miami-Dade Jr. Col, 61-64; ASSOC. PROF. & CHMN. DIV. PSYCHOL. & ED, COL. GUAM, 64- Del. phys. sci. meeting, Int. Cong. Univ. Prof, Moscow Univ. Asn. Am. Geog. Mineral deposits; phosphates; status of the Negro in Florida. Publ: Guam's education marches on; Regional study of the phosphate industry & Survey of the economic, educational and social resources of Bradford County, Fla. Acad. Sci. J. Address: 12025 Griffing Blvd, Miami, Fla. 33161.

GRADIN, THEODORE IRA, b. New York, N.Y, Sept. 28, 21; m. 44; c. 2. ECONOMICS, MARKETING. B.B.A, City Col. New York, 43; M.B.A, N.Y. Univ, 48. Sr. statistician, AM. GAS ASN, 50-53, asst. dir. BUR. STATIST, 53-60, DIR, 60- U.S.A.A.F, 42-45. Econ. Asn; Statist. Asn; Finance Asn; Mkt. Asn; Asn. Bus. Econ. Address: Bureau of Statistics, American Gas Association, 605 Third Ave, New York, N.Y. 10016.

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GRAEBNER, HERBERT C(ONRAD), b. Bay City, Mich, Jan. 3, 08; m. 33; c. 2. ECONOMICS. B.S, Valparaiso, 30; M.B.A, Northwestern, 31; Am. Col. Life Underwriters, 44; fel, Pennsylvania, 46-48. Instr. econ. & asst. bus. mgr, Valparaiso, 32-39; from asst. prof. to assoc. prof, Westminster Col.(Pa), 39-46; assoc. prof. bus. admin, col. bus. admin, Butler, 48-49, prof. & dean, 49-55; AM. COL. LIFE UNDERWRITERS, 55-67, EXEC. V.PRES. & TREAS, 67-, TRUSTEE, 55- Mem. & v.pres, Nat. Coun. Prfnl. Ed. Bus; dir, Cert. Med. Rep. Inst, Inc. Finance Asn; Acad. Polit. & Soc. Sci. Address: American College of Life Underwriters, 270 Bryn Mawr Ave, Bryn Mawr, Pa. 19010.

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Child concepts of God, Yearbook, Lutheran Ed. Asn; Education and the church, Am. Lutheran; co-auth, Attitude inventory. Address: Austin State School, Box 1269, Austin, Tex. 78767.

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GRAHAM, DR. GEORGE A(DAMS), b. Cambridge, N.Y, m. 30; c. 3. POLITICAL SCIENCE. A.B, Monmouth Col, 26; A.M, Illinois, 27, Ph.D, 30. Instr. polit, Princeton, 30-31, asst. prof, 31-39, assoc. prof, 39-45, prof, 45-58, chmn. dept, 46-49, 52-55; dir. govt. studies, Brookings Inst, 58-67; EXEC. DIR, NAT. ACAD. PUB. ADMIN, 67- With U. S. Bur. Budget, 42-45. Consult, Cmn. State Govt. Orgn, Conn, 50; Douglas Senate Subcmt. Ethics in Govt, 51. Chmn, Indian Affairs Task Force, Hoover Cmn, 48-49, staff dir, task force personnel & civil serv, 53-55. Polit. Sci. Asn; Soc. Pub. Admin. Public and personnel administration; public finance. Publ: Education for public administration; Morality in American politics; America's capacity to govern. Address: National Academy of Public Administration, 1225 Connecticut Ave. N.W, Washington, D.C. 20036.

GRAHAM, DR. GEORGE J(ACKSON), JR, b. Dayton, Ohio, Nov. 12, 38; m. 66. POLITICAL SCIENCE. A.B, Wabash Col, 56; Earhart fel, Relm Found, 62-63; Ph.D.(govt), Indiana, 65. Instr. POLIT. SCI, VANDERBILT, 63-64, ASST. PROF, 65- Polit. Sci. Asn. Political theory, including classical and behavioral; relationship of empirical theory and normative evaluation. Address: Dept. of Political Science, Vanderbilt University, P.O. Box 1830, Station B, Nashville, Tenn. 37203.

GRAHAM, DR. GERALD H(UGH), b. Converse, La, June 6, 37; m. 61; c. 3. SOCIAL SCIENCE, ORGANIZATIONAL BEHAVIOR. B.S, Northwest. State Col.(La), 59, M.S, 60; Ph.D.(mgt), La. State, 68. Teacher, parish high schs, La, 59-62; instr. bus. mgt, Northeast La. State Col, 62-63; asst. prof. mgt, Nicholls State Col, 63-65; instr, La. State, 66-67; ASST. PROF. ORGN. BEHAVIOR, WICHITA STATE, 67- Lectr, Mgt. Develop. Seminar, 64-65; summer mgt. trainee, Southwest. Life Ins. Co, 63. Acad. Mgt. Goal formation in social organizations; individual and group conflict; individual image and attraction to groups; general semantics and organizational relationships. Publ: Job satisfaction, Personnel J, 10/66; Chain store dynamics, J. Retailing, summer 67; Improving superior-subordinate relationships through general semantics, Pub. Personnel Rev, 68. Address: 1751 N. Bluff, Wichita, Kans. 67208.

GRAHAM, PROF. GUILBERT R(OBERTSON), b. Sarahsville, Ohio, May 7, 02; m. 27; c. 1. GEOGRAPHY. B.S, Ohio, 24, M.A, Clark, 31. Teacher, high sch, Ohio, 24-40; GEOG, Southwest Mo. State Col, 46; assoc. prof, SOUTH CAROLINA, 47-65, EMER. PROF, 65- U.S.A.F, 41-45, Maj. Rural and urban land use. Publ: South Carolina, In: National Encyclopedia; 260 thousand Columbians, where are they?, 10/61 & South Carolina: economic impact of an interstate highway, 1/67, Bur. Bus. & Econ. Res, Univ. South Carolina. Address: 4600 Lander St, Columbia, S.C. 29206.

GRAHAM, PROF. JACK W(ALDO), b. Kokomo, Ind, May 11, 25; m. 53; c. 2. COUNSELING PSYCHOLOGY. A.B, DePauw, 46; M.A, Wisconsin, 49; Ph.D. (guid), Purdue, 51. Instr. math, DePauw, 47-49; asst. ed. psychol, Purdue, 50-51; asst. prof. PSYCHOL. & GUID, SOUTHERN ILLINOIS, 51-54, assoc. prof, 54-63, PROF, 63-, COORDINATOR COL. STUDENT PERSONNEL GRAD. STUDIES PROG, DEPT. HIGHER ED, 67-, supvr. counseling & testing, 51-54, acting dir. student affairs, 54, coordinator counseling & testing, 54-63, acad. advisement, 63-64, univ. dean of students, 64-67. Guest prof, Nat. Defense Ed. Admin. Inst. Higher Ed, Loyola, summer, 67. Res. consult, Am. Col. Testing Prog, 63-65. Mem. adv. cmt. state supt. pub. instruct, Nat. Defense Ed. Act, 59. Psychol. Asn; Personnel & Guid. Asn. Student personnel administration. Publ: Contrib, Evaluation of the program of general education in the school of science, Purdue University, Eval. Gen. Ed; Academic advisement program; Evaluation study of certain terminal courses in a curriculum which places an emphasis on general education in a land grant university. Address: Dept. of Higher Education, Southern Illinois University, Carbondale, Ill. 62901.

GRAHAM, DR. JAMES DOUGLAS, African Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GRAHAM, DR. JOHN A, b. Del Rio, Tex, July 13, 36. ARCHAEOLOGY, ANTHROPOLOGY. A.B, Texas, 58; Ph.D.(anthrop), Harvard, 63. Asst. prof. ANTHROP, CALIFORNIA, BERKELEY, 62-67, ASSOC. PROF, 67- Soc. Am. Archaeol. Mexican and Central American archaeology and precolumbian ethnohistory; Maya hieroglyphic writing. Publ: Ed, Ancient Mesoamerica: selected readings, Peek, 66; co-auth, A guide to field methods in archaeology, N-P Pubns, 67; A reconsideration of the age of La Venta, Contrib. 3, Archaeol. Res. Facility, 67. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

GRAHAM, DR. JOHN E(LWOOD), Statist, Math, see 11th ed, Phys. & Biol. Vols.

GRAHAM, PROF. JOHN F(INLAYSON), b. Calgary, Alta, May 31, 24; m. 56; c. 2. ECONOMICS. B.A, British Columbia, 47; A.M, Columbia, 48, Ph.D, 59. From asst. prof. to PROF. ECON. & HEAD DEPT. ECON. & SOCIOL, DALHOUSIE, 49- Econ. affairs officer, div. econ. stability & develop, UN, 49-50; gen. ed, Atlantic Provs. Studies, Soc. Sci. Res. Coun. Can; Skelton-Clark vis. res. fel, Queen's (Ont), 63-64; vis. prof, Inst. Higher Studies, Vienna, 64. Consult, Royal Cmn. Finance & Munic. Taxation in N.B, 62-64; Royal Cmn. Ed. & Youth in Newf, 66-67. Mem. & first chmn, Acad. Adv. Panel of Can. Coun, 65-; mem, Can. Coun. Rural Develop, 65- Can. Army, 43-45, 2nd Lt. Am. Econ. Asn; Can. Econ. Asn; fel. Royal Soc. Can. Economic theory; public finance; relation between intergovernmental fiscal relations and economic development; economics of public policy. Publ: Fiscal adjustment and economic development: a case study of Nova Scotia, Univ. Toronto, 63; Fiscal adjustment in a federal country, Can. Tax Found, 64; Areas of economic stress in the Canadian federal context, Indust. Rels. Centre, Queen's (Ont), 65. Address: Dept. of Economics, Dalhousie University, Halifax, N.S, Can.

GRAHAM, JOHN J(OSEPH), b. New Haven, Conn, Sept. 12, 20. ECONOMICS. B.A, Yale, 42, M.A, 43, fel, 47; LL.B, Boston Col, 46; M.A, Boston, 49; N.Y. Univ, 49-56. Instr. econ. hist. & transportation, Boston, 46-47; prof. GOVT, BUS. & ADV. TRANSPORTATION ECON, NORTHEASTERN, 53-65, LECTR, 66- Lectr, Boston Col, 66. Law counsr, 46- Econ. Asn; Acad. Polit. Sci; Soc. Traffic & Transportation. Government regulation of private enterprise; law. Address: 122 Bowdoin St, Boston, Mass. 02108.

GRAHAM, DR. JOHN R(OBERT), b. Braidwood, Ill, Jan. 6, 40; m. 62; c. 2. PSYCHOLOGY. B.A, DePauw, 61; M.A, North Carolina, 63, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, LAKE FOREST COL, 65- Psychol. Asn. Personality assessment; development of personality. Publ: A Q-sort study of the accuracy of clinical predictions based on the MMPI, J. Psychiat. Res, 67; co-auth, A Q-sort study of the relationship between students' self acceptance and acceptance of their college, Psychol. Reports, 67. Address: Dept. of Psychology, Lake Forest College, Lake Forest, Ill. 60045.

GRAHAM, DR. LAWRENCE S, b. Daytona Beach, Fla, July 12, 36; m. 61; c. 3. POLITICAL SCIENCE. B.A, Duke, 58; M.A, Wisconsin, 61; Nat. Defense Ed. Act fel, Florida, 61-65, Ph.D.(polit. sci), 65. ASST. PROF. POLIT. SCI, TEXAS, AUSTIN, 65- Pub. admin. adv, Agency Int. Develop-Inst. Pub. Admin, N.Y. contract, Peru, 67-68. Polit. Sci. Asn; Soc. Pub. Admin. The administrative reform movement in Brazil; urban politics in Mexico; Brazilian government and politics; Peruvian public administration and local government. Publ: Civil service reform in Brazil: principles v. practice, Univ. Texas, 68. Address: Dept. of Government, University of Texas, Austin, Tex. 78712.

GRAHAM, DR. LeROY STONEY, b. Allendale, S.C, Oct. 20, 26; m. 46; c. 2. SOCIOLOGY. A.B, American Univ, 49; B.D, Drew Theol. Sch, 52; Ph.D.(counseling, human rels), Drew, 65. Minister to youth, Stanley Congregational Church, N.J, 50-52; pastor, Wesley Methodist Church, N.Y, 52-57; asst. prof. sociol. & relig, Columbia Col.(S.C), 57-60; ASST. PROF. SOCIOL. & UNIV. CHAPLAIN, AMERICAN UNIV, 60- Lectr, Wash. Int. Center, 62- Consult, Radcliffe Col, 66- Mem, Groves Conf. Marriage & Family, 57- U.S.N.R, 44-46. Nat. Coun. Family Rels; Asn. Marriage Counsr; Asn. Pastoral Counsr. Marriage counseling; sex behavior and family relations viewed in the perspectives of behavioral sciences and Protestant theological ethics. Publ: An analysis and examination of the Christian ethic of premarital chastity in the light of the thought of Reinhold Niebuhr and Emil Brunner and in view of the findings of Alfred Kinsey and Margaret Mead, Univ. Microfilms, 66. Address: Dept. of Sociology, American University, Washington, D.C. 20016.

GRAHAM, PROF. MALBONE WATSON, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

GRAHAM, DR. MILTON D(UKE), b. Ohio, May 11, 16. SOCIAL PSYCHOLOGY. Fulbright fel, United Kingdom, 49-50; Ph.D, London, 51. Consult, strategic intel. div, Human Resources Res. Inst, Maxwell Air Force Base, Ala, 51-52; secy. panel psychol. & unconventional warfare, Res. & Develop. Bd, U.S. Dept. Defense, 52-53; res. assoc. Brookings Instn, 53-54; res. coordinator, human rel. area files, Yale, 54-58; DIR. RES, AM. FOUND. BLIND, 58- Adj. Gen. Off, 41-46, Capt. AAAS; Psychol. Asn; Sociol. Asn; Asn. Pub. Opinion Res. International attitude research; area research; mass communications. Publ: An experiment in international attitudes research, Int. Soc. Sci. Bul; Federal utilization of social science research, exploration of the problems; Effectiveness of photographs as a projective device in an international attitudes survey, J. Soc. Psychol. Address: 15 W. 16th St, New York, N.Y. 10011.

GRAHAM, DR. ROBERT EDWARD, JR, b. McClellanville, S.C, Mar. 7, 15; m. 46; c. 2. ECONOMICS. B.S, Clemson, 36; M.S, Virginia, 37, Ph.D.(econ), 41. Economist nat. income div, OFF. BUS. ECON, U.S. DEPT. COMMERCE, 46-64, CHIEF REGIONAL ECON. DIV, 64- U.S. Dept. Commerce Meritorious Serv. Awards, 57, 59 & Distinguished Achievement Award, 67. U.S.A, 42-46, Lt. Col. Regional Sci. Asn; Econ. Asn. Measurement and analysis of regional differences in rates of economic growth and in levels of economic activity. Publ: Co-auth, Personal income by states since 1929, U.S. Govt. Printing Off, 56. Address: Office of Business Economics, U.S. Dept. of Commerce, Washington, D.C. 20230.

GRAHAM, DR. SAXON, b. Buffalo, N.Y, Jan. 14, 22; m. 48; c. 3. SOCIOLOGY, EPIDEMIOLOGY. A.B, Amherst Col, 43; California, 43-44; A.M, Yale, 49, Ph.D, 51. Res. assoc. & asst. prof. biostatist. & med. admin, grad. sch. pub. health, Pittsburgh, 54-56; asst. prof, dept. prev. med. & pub. health, STATE UNIV. N.Y. BUFFALO, 56-65, PROF. SOCIOL. & PREV. MED, 65- Assoc. res. scientist, Roswell Park Mem. Inst, 56- Consult, epidemiol. & disease control study sect, Nat. Insts. Health, 66- Mem. overseas adv. bd, med. sch, Tel-Aviv Univ, 65- U.S.A, 43-46. Sociol. Asn; Pub. Health Asn. Acceptance and rejection of innovation; culture change; medical sociology; social epidemiology. Publ: American culture; Socioeconomic distribution of cancer at various sites, Buffalo, New York, 1948-1952, Cancer; Class and conservation in the adoption of innovations, Human Rels. Address: Dept. of Sociology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

GRAHAM, PROF. THOMAS F(RANCIS), b. Niles, Ohio, Dec. 8, 23. CLINICAL PSYCHOLOGY. B.S, Kent State, 46, M.A, 47; Ph.D.(clin. psychol), Ottawa, 52. PROF. PSYCHOL. & PHILOS. & CHMN. SOC. SCI, WALSH COL, 67- Publ: Stars and shadows, Beacon-Bell; Medieval Minds, Allen & Unwin, London; Parallel profiles, Herder Bk. Address: Walsh College, Canton, Ohio 44720.

GRAHAM, DEAN THOMAS M(ONTROSE), b. Globe, Ariz, May 15, 28; m. 50; c. 3. PSYCHOLOGY. B.A, Rockmont Col, 50; M.A, New Mexico Highlands, 52; Ph.D.(psychol), Southern California, 63. Assoc. dean fiscal affairs, sch. letters & sci, CALIF. STATE COL. LOS ANGELES, 64-66; dir. curricular planning, 66-67; PROF. PSYCHOL. & DEAN ACAD. PLANNING, 67- Consult, Orthopaedic Hosp, Los Angeles, 62-; Peace Corps, 64-; Inst. Law & Psychiat, 64-66. AAAS; Psychol. Asn; Am. Sci. Affiliation; Int. Coun. Psychol. Experimental psychology. Publ: Co-auth, Effects of prenatal x-irradiation on discrimination learning in the rat, Proc. Soc. Exp. Biol. & Med, 100: 78-81, The effect of continuous gamma radiation on bar pressing in old rats 17: 787-793 & Prolonged gamma irradiation as related to learning and motivation in the rat, 21: 120-128, Radiation Res. Address: California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

GRAHAM, DR. VIRGINIA T(AYLOR), b. Richmond, Va, Sept. 17, 97. PSYCHOLOGY. A.B, Kentucky, 19, M.A, 21; Ph.D.(psychol), California, 24. Chief psychologist, habit clins, Div. Ment. Hyg, Mass, 24-25; res. psychologist, U.S. Pub. Health Serv, 25-26; instr. psychol, Territorial Norm. Sch, Honolulu, 26-27; psychologist, child guid. dept, pub. schs, N.J, 27-28; State Ment. Hyg. Clin, Va, 28-30; Cent. Clin, Cincinnati, 31-35; Girl's Serv. League, New York 36-37; res. psychologist, Longview Hosp, Cincinnati, 38-39; from lectr. to assoc. prof. psychol. & dir. psychol. div, dept. psychiat, Cincinnati, 39-63; CLIN. PSYCHOLOGIST & CONSULT, 63- Consult, Vet. Admin. Fel. Psychol. Asn. Racial differences in intelligence; personality studies in psychosomatic illness by use of projective techniques. Publ: Intelligence of Chinese children in San Francisco; Intelligence studies of Negro children in Atlanta, Georgia; Psychological studies of hypoglycemia therapy. Address: 2324 Park Ave, Apt. 11, Cincinnati, Ohio 45206.

GRAHAM, DR. WARREN RYAN, b. New York, N.Y, June 27, 22; m. 49. PSYCHOLOGY, PSYCHOMETRICS. A.B, California, 48; M.A, N.Y. Univ, 52; Ed.D, Columbia, 55. Res. assoc. psychol, Richardson, Bellows, Henry & Co, Inc, 50-53; private consult. psychologist, 53-56; task scientist, U.S. Air Force Personnel Training & Res. Center, 56-57; res. psychologist, U.S. Army Personnel Res. Off, 57-65; SR. RES. SCIENTIST, Am. Inst. Res, 65-67; AMERICAN UNIV, 67- U.S.A, 42-45. Psychol. Asn; Nat. Coun. Measurement Ed; N.Y. Acad. Sci. Measurement and prediction of human behavior; experimentation in personality, creativity, motivation, ability, aptitudes and training; research design and management; development of psychometric methods and psychological measurement; personnel evaluation and selection. Publ: Experimental comparison of methods to control faking of inventories, Ed. & Psychol. Measurement; Identification and prediction of two training criterion factors, J. Appl. Psychol; Creative and constructive idea men and their participation in activities, J. Gen. Psychol. Address: 5131 Newport Ave, Bethesda, Md. 20016.

GRAHAM, PROF. WILLARD J, Acct, see 10th ed, Soc. & Behav. Vols.

GRAHAM, WILLIAM M(ONTROSE), Norfolk, Va, Feb. 12, 24; m. 48; c. 3. ECONOMICS. B.A, Virginia, 49. Economist, bur. labor statist, U.S. Dept. Labor, 49-53; bank opers. analyst, Fed. Reserve Bd, 53-55; staff economist, Am. Trucking Asn, Inc, 55-63; transportation consult, W.B. Saunders & Co, 63-65; PROG. SCIENTIST, BOOZ ALLEN APPL. RES, INC, 65- U.S.A, 43-46. Statist. Asn; Econ. Asn; Transportation Res. Forum; Acad. Polit. & Soc. Sci. Business; tax; productivity analysis; public resource allocation and conservation. Address: 2778 N. Wakefield St, Arlington, Va. 22207.

GRALNICK, DR. ALEXANDER, Psychiatry, see 11th ed, Phys. & Biol. Vols.

GRAMBSCH, DEAN PAUL V(ICTOR), b. Dayton, Ohio, Mar. 14, 19; m. 45; c. 6. INDUSTRIAL MANAGEMENT. B.A, N. Cent. Col.(Ill), 41; fel, Mississippi, 46-47, M.A, 47; Gen. Ed. Bd. fel, Indiana, 50-51, D.B.A.(mgt), 55. Assoc. prof. mgt. & dean, Tulane, 52-60; PROF. MGT. & DEAN SCH. BUS. ADMIN, MINNESOTA, 60- Mem, Gov. Adv. Cmn, State Dept. Bus. Develop; chmn, Gov. Tax Study Cmt, 61- U.S.N, 42-46, Lt. Econ. Asn; Soc. Adv. Mgt; Acad. Mgt; Inst. Mgt. Sci; Indust. Rels. Res. Asn. Publ: Union security question, Bus. Bull; Labor in Mississippi, In: Encyclop. Labor. Address: School of Business Administration, University of Minnesota, Minneapolis, Minn. 55455.

GRAMLEY, DR. LYLE E(LDEN), b. Aurora, Ill, Jan. 14, 27; m. 51; c. 2. ECONOMICS. B.A, Beloit Col, 51; M.A, Indiana, 52, Ph.D, 56. Financial economist, Fed. Reserve Bank of Kansas City, 55-62; assoc. prof. monetary econ, Maryland, 62-64; financial economist, FED. RESERVE BD, 64-66, assoc. adv, 66-67, ADV, 68- U.S.N, 44-47. Econ. Asn; Finance Asn. Mone-

tary theory and policy; commercial banking; business cycles. Publ: Co-auth, Essays in commercial banking, 62 & auth, Scale economies in banking, 62, Fed. Reserve Bank of Kansas City. Address: 12901 Three Sisters Rd, Potomac, Md. 20854.

GRAMM, DR. WARREN S(TANLEY), b. Seattle, Wash, Sept. 23, 20; m. 49; c. 3. ECONOMICS. A.B, Washington (Seattle), 44, M.A, 48; Ph.D, California, 55. From instr. to asst. prof. ECON, California, 55-63; ASSOC. PROF, Alaska Methodist, 63-65; WASHINGTON STATE, 65- U.S.A, 43-46, Lt. Econ. Asn; Econ. Hist. Asn; Asn. Evolutionary Econ. Economic history; labor economics; comparative economic systems; history of economic thought. Publ: Functional income distribution theory; Limitations of the theory of the firm for water resource analysis, Land Econ; Steel, administered prices and inflation, Quart. J. Econ. Address: Dept. of Economics, Washington State University, Pullman, Wash. 99163.

GRAMPP, PROF. WILLIAM D(YER), b. Columbus, Ohio, Aug. 22, 14. ECONOMICS. A.B, Akron, 36; A.M, Chicago, 42, Ph.D, 44. PROF. ECON, ILLINOIS, CHICAGO, 47- Econ. Asn. Economic theory; history of economic thought. Publ: Manchester School of Economics, Stanford Univ, 60; co-ed, Economic policy, Irwin, 61; auth, Economic liberalism, Random, 65. Address: 5426 Ridgewood Court, Chicago, Ill. 60615.

GRAMS, ARMIN, b. Chicago, Ill, Oct. 20, 24; m. 47; c. 4. PSYCHOLOGY. B.S, Concordia Col, 45; M.A, De Paul, 47; Ph.D.(child develop), Northwestern, 52. Instr. psychol, De Paul, 49-52, asst. prof, 52-55; assoc. prof, Wis. State Col.(La Crosse), 55-57; Minnesota, 57-62, HEAD, HUMAN DEVELOP. PROG, MERRILL-PALMER INST. HUMAN DEVELOP. & FAMILY LIFE, 62- Nat. Coun. Family Rels; Psychol. Asn; Soc. Res. Child Develop; Soc. Sci. Study Relig; Acad. Relig. & Ment. Health; Ed. Res. Asn; Soc. Study Soc. Probs. Preschool antecedents of learning disability in elementary school children; personality adjustment and achievement in school; moral and spiritual development in children; parent-teacher and parent-child relationships; parent education. Publ: Co-auth, The parent and the counselor; auth, Children and their parents, Denison, 63; Facilitating learning and individual development, Minn. State Dept. Ed, 66. Address: Merrill-Palmer Institute, 71 E. Ferry Ave, Detroit, Mich. 48202.

GRANBERG, PRES. LARS I(NGOLF), b. Egersund, Norway, May 26, 19; nat; m. 43; c. 3. PSYCHOLOGY. B.S, Wheaton Col.(Ill), 41; M.A, Chicago, 46, Ph.D.(human develop), 54. Assoc. prof. psychol, Hope Col, 47-54, chmn, 52-54; prof. pastoral counseling & psychol. & dean students, Fuller Theol. Sem, 54-60; prof. psychol. & dir. counseling serv, Hope Col, 60-66, PRES, NORTHWEST. COL.(IOWA), 66- U.S.A, 41-46, Capt. Psychol. Asn. Psychotherapist's reactions to client behavior; premarital and marital counseling programs for pastors. Publ: Co-auth, Bakers dictionary of practical theology, Baker Book House, 67. Address: 622 Central Ave. S.W, Orange City, Iowa 51041.

GRANBERRY, DR. JULIAN, b. East Orange, N.J, Mar. 15, 29. ANTHROPOLOGY. B.A, Yale, 51; M.A, Florida, 55; Ph.D.(anthrop, ling), Buffalo, 66. Instr. anthrop. & soc. sci, Florida, 53-57; res. assoc. anthrop, Cent. Fla, Mus, 57-60; instr. mod. lang, Buffalo, 62-63, res. assoc. ling, Eng. Ling. Proj, 62-65; ASSOC. PROF. ANTHROP. & LING, ST. JOHN FISHER COL, 64- Dir. Trans. of Orlando, Fla, 57-60; Summer Lang. Sch, 57-60; instr, Rollins, 60; Rochester Inst. Tech, 60-61; Russian tech. translator, 61-63. Anthrop. Asn; Soc. Am. Archaeol; Ling. Soc. Linguistics; culture and personality; North American Indian & Polynesian languages. Publ: Cultural position of the Bahamas in Caribbean archaeology; Timucua I, prosodics and phonemics of the Mocama dialect; Anthropological reconnaissance of Bimini, Bahamas. Address: 148 Gibbs St, Rochester, N.Y. 14605.

GRAND, DR. HELEN T(OMSON), b. New York, N.Y, Nov. 13, 10; m. 36; c. 3. CLINICAL PSYCHOLOGY. B.A, Hunter Col, 30; M.S, City Col. New York, 34; cert, Queens Col.(N.Y), 55; Ph.D, N.Y. Univ, 59; cert, Post-Grad. Center Ment. Health, 61-66. Teacher, pub. schs, N.Y, 30-33, 46-55, guid. counsr, 51-55, sch. psychologist, 58-60; lectr, Long Island, 60-61; MEM. FACULTY, POST-GRAD. CENTER MENT. HEALTH, 65-; CLIN. INSTR. PSYCHIAT, ALBERT EINSTEIN COL. MED, 67- Private practice psychoanal. Lectr, Queens Col.(N.Y), 56, 60. Psychol. Asn; Group Psychother. Asn. Individual and group psychoanalysis. Address: 320 E. 18th St, New York, N.Y. 10003.

GRAND, DR. STANLEY, b. New York, N.Y, July 21, 29; m. 56; c. 2. CLINICAL PSYCHOLOGY. A.B, Brooklyn Col, 60; U.S. Pub. Health Serv. fel, N.Y. Univ, 61-65, Ph.D.(clin. psychol), 66. INSTR. CLIN. PSYCHOL, STATE UNIV. N.Y. DOWNSTATE MED. CENTER, 66- Consult. schizophrenic res. proj, Roosevelt Hosp, 67- Psychol. Asn; Asn. Psychophysiol. Study Sleep. Experimental techniques for investigation of psychoanalytic and psychotherapeutic phenomena, including cognitive and affective processes during altered states of consciousness and altered clinical states. Publ: Co-auth, Recovery in the absence of recall: an investigation of color word interference, 66 & auth, Color word interference: an investigation of the role of vocal conflict and hunger in associative priming, 68, J. Exp. Psychol; co-auth, An approach to the study of dreaming and changes in psychopathological states, J. Nervous & Ment. Diseases, 66. Address: Dept. of Psychiatry, State University of New York Downstate Medical Center, 450 Clarkson Ave, Brooklyn, N.Y. 11203.

GRANDA, DR. ALLEN M(ANUEL), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

GRANDAGE, PROF. ARNOLD HERBERT EDWARD, Statist, see 11th ed, Phys. & Biol. Vols.

GRANER, PROF. FRANK M(AXWELL), Finance, see 10th ed, Soc. & Behav. Vols.

GRANEY, DR. MAURICE, Indust. Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GRANGE, DR. ROBERT O, b. Princeton, Ill, Aug. 27, 24; m. 53; c. 4. SPEECH PATHOLOGY. B.A, Idaho State Col, 49; M.A, Denver, 50; Ph.D. (speech path), Indiana, 60. Consult. speech & hearing, Tenn. Dept. Pub. Health, 51-54; dir. speech & hearing, Rehab. Inst, 58-60; assoc. prof. speech path, Southern Mississippi, 60-66; ASSOC. PROF. SPEECH PATH. & AUDIOL. & CHMN. DEPT, IDAHO STATE, 66- Speech & Hearing Asn. Speech pathology, particularly stuttering; defective articulation or cleft palate. Publ: A survey of recent experimentation with cortisone as an etiological factor in cleft palate, Speech & Hearing Therapist, 57. Address: Dept. of Speech Pathology & Audiology, Idaho State University, Box 116, Pocatello, Idaho 83201.

GRANGE, DR. ROGER T(IBBETTS), b. Chicago, Ill, Oct. 6, 27; m. 53; c. 3. ANTHROPOLOGY. Ph.B, Chicago, 48, M.A, 52; fel, Arizona, 53-54, Ph.D. (anthrop), 62. Asst. anthrop, Chicago Natural Hist. Mus, 50-52, 54-55; curator, Ft. Robinson Mus, Nebr. State Hist. Soc, 55-59, asst. mus. dir, 59-63, mus. dir, 63-64; ASSOC. PROF. ANTHROP. & CHMN. DEPT, SOUTH FLORIDA, 64- Asst. prof, Nebraska, 63. U.S.A, 46-47. Anthrop. Asn; Soc. Am. Archaeol. General anthropology; North American archaeology and ethnology. Publ: Co-auth, Mogollon cultural continuity and change & The Spain site; auth, Fort Robinson, outpost on the plains, In: Nebraska history. Address: Dept. of Anthropology, University of South Florida, Tampa, Fla. 33620.

GRANGER, DR. STEPHEN (GRAVES), b. St. Paul, Minn, Feb. 2, 32; m. 53; c. 2. PSYCHOLOGY. B.A, Minnesota, 53, M.A, 55, Ph.D, 58. Counseling psychologist, Vet. Admin. Hosp, Minneapolis, Minn, 55-58, St. Cloud, 58-60; asst. prof. PSYCHOL, MINNESOTA, MORRIS, 60-61, ASSOC. PROF, 61-, COUNSR, 60-, ASST. DEAN, 63- U.S.M.C, 50-52. Psychol. Asn. Psychometric prediction of academic and occupational success; occupational prestige ranking of 20 psychological occupations, J. Counseling Psychol. Address: Dept. of Psychology, University of Minnesota, Morris, Minn. 56267.

GRANICK, PROF. DAVID, b. New York, N.Y, Jan. 13, 26; m. 50; c. 3. ECONOMICS. B.S.S, City Col. New York, 44; cert, Russian Inst, Columbia, 49, Soc. Sci. Res. Coun. fel, univ, 49-50, Ph.D.(econ), 51. Assoc. prof. ECON, Fisk, 51-57; asst. prof, Carnegie Inst. Tech, 57-59; assoc. prof, WISCONSIN, 59-62, PROF, 62-, exec. secy, Russian area studies prog, 65-66. Econ. affairs summer officer, UN Secretariat, 51-52; res. assoc, inst. res. soc. sci, North Carolina, 53-54; Guggenheim fel. & assoc, Russian Res. Center, Harvard, 56-57; Fulbright sr. res. scholar, Glasgow, 59-60; dir. assoc. studies, Sect. VI, Ecoles Pratique des Hautes Etudes, Paris, 63-64; Simon prof, Manchester, 64; sr. res. fel, European Inst, Columbia, 66-67; Am. Philos. Soc. grant, 67. U.S.A, 44-46. Econ. Asn; Asn. Study Soviet-Type Econ. Soviet economics; comparative economic systems; comparative management. Publ: Management of the industrial firm in the U.S.S.R, Columbia, 54; The European executive, Doubleday, 62; Soviet metal-fabricating and economic development, Univ. Wisconsin, 67. Address: Dept. of Economics, Social Science Bldg, University of Wisconsin, Madison, Wis. 53706.

GRANICK, DR. SAMUEL, b. New York, N.Y, Oct. 21, 16; m. 52; c. 3. PSYCHOLOGY. B.S, City Col. New York, 37, M.S, 41; Ph.D.(psychol), Columbia, 50. Clin. psychologist, ed. clin, City Col. New York, 41-42, instr. psychol, 47; med. psychol, Washington (St. Louis), 47-49; asst. prof. psychol, Fla. State, 49-51; clin. psychologist, U.S. Dept. Navy, Md, 51-52; chief psychologist, Vet. Admin, Biloxi, Miss, 52-55; St. Christophers Hosp, Phila, Pa, 55-59; RES. ASSOC, PHILA. PSYCHIAT. HOSP, 59- Asst. prof, med. sch, Temple, 55-59; private practice, 59- Consult, Asn. Jewish Children, 59- Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. U.S.A, 42-45. AAAS; Psychol. Asn; Geront. Soc; Asn. Ment. Deficiency. Emotional problems of childhood; adjustments in old age; measurement of personality functioning. Publ: Studies in the psychology of senility & Adjustment of older people in two Florida communities, J. Geront; Intellectual performance as related to emotional instability in children, J. Abnorm. & Soc. Psychol. Address: 404 Waring Rd, Elkins Park, Pa. 19117.

GRANO, JOHN R(OMAN) A(RNOLD), b. New York, N.Y, Apr. 8, 25; m. 49; c. 2. STATISTICS. B.A, N.Y. Univ, 47; M.S, Rutgers, 60. Qual. control rep. Qm. Inspection Serv. Command, U.S. Army, 48-51, regional supvr, 51-52, chief inspector, 52-54, hq. qual. control specialist, 54-56; asst. qual. control mgr, Lily-Tulip Cup Corp, 56-58; statist-qual. control consult, Bristol-Myers, Inc, 58-63; QUAL. CONTROL MGR, Sylcor Div, Sylvania Elec. Corp, 63-65; COTY DIV, CHAS. PFIZER, INC, 65- Med. Dept, U.S. Army, 45-46. Statist. Asn; Soc. Qual. Control (treas, 62); Chem. Soc; Inst. Food Tech. Chemistry; design and analysis of experiments for industry and research; application of statistical techniques to laboratory and manufacturing operations; quality control and assurance programs. Address: Coty Division, Chas. Pfizer, Inc, 423 W. 55th St, New York, N.Y. 10019.

GRANOFSKY, DR. JACK, b. Philadelphia, Pa, Mar. 12, 20; m. 42; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 43; M.A, N.Y. Univ, 47; Ph.D.(psychol), Yeshiva, 55. Chief counseling, N.Y. Univ-Bellevue Med. Center, 47-55, assoc, 52, asst. chief psycho-soc. serv, outpatient dept, 55-57; ASST. PROF. PSYCHOL, HOFSTRA, 57- Private practice, 53-; prfnl. exam. & consult, Am. Pub. Health Asn, 65- Consult, Rutgers, 55-56. U.S.N, 43-46. Psychol. Asn. Diagnosis and treatment of emotional and mental problems. Publ: Manual on prevocational exploration, Brown, 56. Address: 50 Kenilworth Place, Brooklyn, N.Y. 11210.

GRANT, DR. CLAUDE WILSON, b. Holbrook, Idaho, Aug. 16, 18; m. 44; c. 2. COUNSELING & EDUCATIONAL PSYCHOLOGY. B.S, Houston, 46; M.S, Utah, 47; Ph.D, Minnesota, 50. Psychometrist, Utah, 46-47, asst. prof. ed. psychol, 49-51, prof. & head dept, 55-57; instr. counseling, Minnesota, 47-49; assoc. prof. psychol. & ed. & dir. grad. guid. training, Syracuse, 51-55; prof. ed, N.Y. Univ, 57-65; PROF. ED. PSYCHOL. & DIR. INSTNL. RES, UTAH, 65- Consult, N.Y. Bd. Ed, 57-61; psychol. training control unit, Vet. Admin, 57-; mem. state master planning cmt. higher ed, Utah, 65. U.S.A.A.F, 43-46, 1st Lt. Fel. Psychol. Asn; Personnel & Guid. Asn; Asn. Instnl. Res. Personality characteristics; student and faculty characteristics; curriculum in higher education; student personnel work. Publ: Youth potential and youth opportunity in the state of Utah, Univ. Utah, 67; Road

ahead for the school counselor & How parents perceive the counselor's role, Personnel & Guid. J. Address: Dept. of Educational Psychology, University of Utah, Salt Lake City, Utah 84114.

GRANT, PROF. DANIEL R(OSS), b. Little Rock, Ark, Aug. 18, 23; m. 47; c. 3. POLITICAL SCIENCE. A.B, Ouachita Baptist Col, 45; A.M, Alabama, 46; Tennessee, 46; Kentucky, 46; Ph.D, Northwestern, 48. From asst. prof. to assoc. prof. POLIT. SCI, VANDERBILT, 48-62, PROF, 62- Vis. prof, inst. pub. admin, Thammasat Univ, Thailand, 58-59; Ford Found. res. grant, 63-67. Asst, Legis. Adv. Cmn, Birmingham & Jefferson Counties, Ala, 46; asst. dir, Community Serv. Cmn, Davidson County & City of Nashville, Tenn, 51-52; res. assoc, Govt. Affairs Found, Inc, 55; assoc. dir, Home Rule Cmn, Harris County, Tex, 57. Res. consult, Nashville & Davidson Counties Planning Cmn, 55-56; consult, U.S. Adv. Cmn. Intergovt. Rels, 62-; Little Rock - Pulaski County Urban Serv. Surv, Ark, 64; pub. admin. serv. surv. local govt, Charleston County, S.C, 66; Goals for Dallas Proj, 66; Conn. Legis. Cmn, 66. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; state, local and metropolitan area government; intergovernmental relations. Publ: Co-auth, State and local government in America, Allyn & Bacon, 63, revised ed, 68; auth, Metropolitan surveys: a digest; co-auth, Metropolitan Harris County. Address: 107 Blue Hills Court, Nashville, Tenn. 37214.

GRANT, PROF. DAVID A(LEXANDER), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

GRANT, DR. DONALD L(INDSAY), b. White Plains, N.Y, Sept. 7, 18. PSYCHOLOGY. A.B, Princeton, 41; M.A, Ohio State, 49, Ph.D.(psychol), 52. Res. analyst, personnel res. div, Prudential Ins. Co. Am, 50-53; asst. prof. psychol, Western Reserve, 53-56; staff asst, res. sect, PERSONNEL RELS. DEPT, AM. TEL. & TEL. CO, 56-58, personnel res. supvr, 58-67; PERSONNEL MGR, 67- Adj. prof, N.Y. Univ, 63-64; vis. lectr, Princeton, 67-68. U.S.A, 42-46. Psychol. Asn. Selection and placement; attitude measurement; training evaluation. Publ: Co-auth, Application of a factorial method in selecting questions for attitude survey, Personnel Psychol, 61, The assessment center in the measurement of potential for business management, Psychol. Monogr, 66 and Contributions of projective techniques to assessment of management potential, J. Appl. Psychol, 67. Address: American Telephone & Telegraph Co, 195 Broadway, R. 2122, New York, N.Y. 10007.

GRANT, DR. H(ENRY) C(LARK), Econ, see 10th ed, Soc. & Behav. Vols.

GRANT, PROF. J(AMES) A(LAN) C(LIFFORD), b. Grand Forks, N.Dak, June 19, 02; m. 28; c. 2. POLITICAL SCIENCE, PUBLIC LAW. A.B, Stanford, 24, A.M, 25, univ. fel, 25-27, Ph.D.(polit. sci. law), 27. Asst. polit. sci, Stanford, 25-27, asst. prof, 36; clerk, judiciary cmt, Calif. Assembly, 27; instr. POLIT. SCI, Wisconsin, 27-29, asst. prof, 29-30; CALIFORNIA, LOS ANGELES, 30-36, assoc. prof, 37-40, PROF, 40-, chmn. dept, 39-42, dean div. soc. sci, 50-59. Soc. Sci. Res. Coun. fel, 31-32, sr. fel, 59-60; Guggenheim fel, 42-43; spec. adv, President & Ministry Justice, Vietnam, 56; Bacon lectr, Boston, 59; Fulbright prof, Hopkins Univ, Bologna, Italy, 63-64; acad. asst. to pres, Univ. California, 66- U.S.A.R, 25-29, 2nd Lt. Polit. Sci. Asn.(v.pres. 53-54); Soc. Legal Hist; For. Law Asn; Selden Soc; Nat. Acad. Arbit. American and comparative constitutional law; Anglo-American legal history. Address: 13160 Riviera Ranch Rd, Los Angeles, Calif. 90049.

GRANT, J(AMES) DOUGLAS, Psychol, Math. Statist, see 10th ed, Soc. & Behav. Vols.

GRANT, DR. MARGUERITE QUEEN, Psychol, see WARREN, DR. MARGUERITE QUEEN.

GRANT, DR. MARION E(LDER), b. Que, Mar. 16, 00. PSYCHOLOGY. B.A, Acadia, 21, hon. D.C.L, 64; M.A, Toronto, 24, D.Paed, 31; hon. LL.D, New Brunswick, 50. From assoc. prof. to prof. ed. & psychol, Baylor Col, 26-36, dean women, 32-36; asst. prof. ed, Acadia, 36-43, psychol, 43-53, assoc. prof, 53-60, prof. & head dept, 60-64, 65-66, dean women, 36-60; CLIN. PSYCHOLOGIST, FUNDY MENT. HEALTH CENTRE, 55- Mem, Can. Commonwealth Scholar. & Fel. Cmt, 59-65. Am. Psychol. Asn; Can. Psychol. Asn. Memory and forgetting; results of psychotherapy. Address: Fundy Mental Health Centre, Wolfville, N.S, Can.

GRANT, DR. VERNON WESLEY, b. Cleveland, Ohio, Sept. 6, 04; m. 43. CLINICAL PSYCHOLOGY. Scholar & Ph.B, Chicago, 27; M.A, Columbia, 29; Ph.D.(psychol), Northwestern, 41. Instr. psychol, St. Lawrence, 29-32; prof, North. Ill. Col. Optom, 34-42; asst. prof, Rochester, 44-45; assoc. prof, Adelphi Col, 46-48; CHIEF PSYCHOLOGIST, Hawthornden State Hosp, Macedonia, Ohio, 49-57; SUMMIT COUNTY MENT. HYG. CLIN, AKRON, OHIO, 57- U.S.A.A.F, 42-43. Psychol. Asn; fel. Soc. Sci. Study Sex. Psychotherapy; theory of psychoses; psychology of sex. Publ: The psychology of sexual emotion, Longmans, 57; This is mental illness, Beacon, 63; Great abnormals, Hawthorn, 68. Address: 227 W. Exchange St, Akron, Ohio 44303.

GRANTHAM, WAYNE D(UDEK), b. Belle Plaine, Iowa, Apr. 5, 21; m. 45; c. 2. PSYCHOLOGY. A.B, Denver, 47; Missouri, 47-48; M.A, Drake, 51. Intern psychol, State Div. Child Welfare, 49-50, psychologist, 50-52, acting supvr, 51; clin. psychologist, HOSP. SCH. SEVERELY HANDICAPPED CHILDREN, IOWA, 52-55, PSYCHOLOGIST & ASST. TO DIR, 55- U.S.N, 40-46, Res, 46-50, Ens. Psychol. Asn. Habilitation and rehabilitation of physically handicapped children; counseling with parents of physically handicapped children. Address: 1430 Oaklawn Ave, Iowa City, Iowa 52240.

GRAPKO, DR. MICHAEL F(REDERIC), b. Feb. 4, 21; Can. citizen; m. 48; c. 1. PSYCHOLOGY. Ph.D.(psychol), Toronto, 53. Lectr. & res. assoc, INST. CHILD STUDY, TORONTO, 53-60, asst. prof, 60-64, ASSOC. PROF. & DIR, 64-, ASST. PROF. PSYCHOL, UNIV, 60-, lectr, 55-60. Coordinator ed. serv, Thistletown Hosp, 64- R.C.N.V.R, 44-45. Am. Psychol. Asn; Can. Psychol. Asn; Soc. Res. Child Develop. Learning; child developments; construction of personality tests for use with school age children. Address: 14 Brule Terrace, Toronto 3, Ont, Can.

GRASBERG, DR. EUGENE, b. Warsaw, Poland, Nov. 13, 20. ECONOMICS. Ph.D.(econ), McGill, 53. Lectr, econ, McGill, 53-54; from asst. to assoc. prof, New Brunswick, 54-58; econ. & financial counsr, Govt. of Haiti, 59-65; SR. ECONOMIST, CENTER DEVELOP. PLANNING, NAT. PLANNING ASN, 65- Mem, Can. Inst. Int. Affairs. Polish Army, 39, 44. Econ. Asn; Can. Polit. Sci. Asn. International economic relations; systems analysis in development project management. Publ: Indonesia's investment requirements; New Brunswick economy 1955-1980; Social accounts and input-output tables, Acct. Res. Address: 1400 20th St. N.W, Apt. 802, Washington, D.C. 20036.

GRASHAM, W(ILBUR) E(DWARD), b. Seattle, Wash, Nov. 5, 16; nat. Can; m. 60. PUBLIC ADMINISTRATION. B.A.Sc, Toronto, 39, M.A, 49; London, 51-54. Field engr, Hans Lundberg, Ltd, Can, 39-40; engr, Ferrant Elec. Co, 40-41; asst. res. physicist, Nat. Res. Coun. Can, 43-47; lectr. POLIT. SCI, McGill, 54-55; Alberta, 55-56; vis. lectr, Carleton (Can), 56-58; lectr, TORONTO, 59-60, asst. prof, 60-64, ASSOC. PROF, 64- Can. Polit. Sci. Asn; Can. Inst. Pub. Admin; Royal Inst. Pub. Admin. Educational policy and administration in the United Kingdom; Canadian provincial public administration with particular reference to Ontario. Address: Dept. of Political Economy, University of Toronto, Toronto 5, Ont, Can.

GRASSMUCK, PROF. GEORGE L(UDWIG), b. Nebraska City, Nebr, Sept. 17, 19; m. 53; c. 3. POLITICAL SCIENCE. B.A, California, Los Angeles, 41, M.A, 43; Ph.D, Hopkins, 49. Instr. govt, Boston, 49-50; vis. asst. prof. polit. sci, California, Los Angeles, 51-53; assoc. prof. polit. sci. & pub. admin, American Univ. Beirut, 53-55, chmn. dept. pub. admin, 55-57; assoc. prof. POLIT. SCI, MICHIGAN, 57-64, PROF, 64-, ASST. V.PRES. INT. PROGS, 66- Fulbright res. fel, 65-66. Consult. & mem. screening cmt. for. area training fels, Ford Found, 59-63; spec. consult, V.Pres. U.S, 60-61; consult-exam, N.Cent. Asn. Col. & Sec. Schs, 66- U.S.N.R, 43-46, Lt.(jg). Polit. Sci. Asn; Soc. Pub. Admin; Mid. East Inst; Int. Inst. Admin. Sci. Politics, government and administration of the Middle Eastern area; voting patterns and sectional biases in the United States. Publ: Sectional biases in congress on foreign policy; co-auth, Manual of Lebanese administration; co-auth, Reformed administration in Lebanon, Univ. Michigan, Near East Center, 65. Address: Administrative Offices Bldg, University of Michigan, Ann Arbor, Mich. 48108.

GRAU, ALBERT F(RANCIS), S.J, b. Baltimore, Md, Mar. 26, 14. CLINICAL PSYCHOLOGY. A.B, Sacred Heart Col, P.I, 39, M.A, 40; S.T.L, Woodstock Col.(Md), 47; Catholic Univ, 48-49, 56-57; Ph.D.(clin. psychol), Ottawa (Can), 61. Asst. prof. psychol, Georgetown, 50-55; philos, Wheeling Col, 59-61; ASSOC. PROF. PSYCHOL, Laurentian Univ, 61-63; Scranton, 63-65; LOYOLA COL.(MD), 65- Mem. optom. exten. prog, Wash, D.C. & Phila, 56, Kansas City, 58, Montreal, 59. Cert, Bd. Exam. Psychol, Ont. Psychol. Asn; Personnel & Guid. Asn. Publ: Chaps. In: Psychiatry and Catholicism; Efficient visual functioning and the learning process, Education, 2/64; Directives for counseling: the Pope's remarks, Am. Cath. Psychol. Asn. Proc. Address: Dept. of Psychology, Loyola College, Baltimore, Md. 21210.

GRAU, DR. JOSEPH JOHN, b. New York, N.Y, Jan. 10, 25; m. 59; c. 2. SOCIOLOGY. B.A, Cathedral Col, 47; M.A, Fordham, 54; Ph.D.(sociol), Pittsburgh, 63. Cultural liaison officer, Puerto Rican Rels, Youngstown, Ohio, 52-54; pub. rels. dir, Community Chest, 54-57; dir. United Fund Orgn, Yonkers, N.Y, 57-58; ASSOC. PROF. SOCIOL, C.W. POST COL, LONG ISLAND, 62- Fulbright-Hays award lectr, Korea, 68-69. Sociol. Asn; Soc. Sci. Study Relig. Rehabilitation of mentally and physically disabled persons; urban development in Korea; the concept of the relative absolute. Address: Dept. of Sociology, C.W. Post College of Long Island University, P.O. Greenvale, N.Y. 11780.

GRAUBERT, DR. JEAN, b. Brooklyn, N.Y, Oct. 6, 27; m. 48; c. 2. PSYCHOLOGY. B.A, Hunter Col, 50; Ph.D.(clin. psychol), Adelphi, 64. Supvr, Grandmothers League, 50-53; instr. PSYCHOL, ADELPHI, 63-64, ASST. PROF, 64- AAAS; Psychol. Asn. Applications of behavior theory. Address: Dept. of Psychology, Adelphi University, Garden City, N.Y. 11530.

GRAUE, PROF. ERWIN, b. Germany, Jan. 12, 95. ECONOMICS. B.S, Cornell, 23, Ph.D, 28. Asst. prof. ECON, IDAHO, 28-29, assoc. prof, 29-35, prof, 35-65, EMER. PROF, 65- Fulbright prof, Ankara, 51-52; prof, Gonzaga, 66- Consult, Idaho Legis. Coun, 65-66. Econ. Asn. Business fluctuations; economic theory. Publ: Forecasts of price level; Social cost of bad debt; Valorization of cocoa. Address: 304 East A St, Moscow, Idaho 83843.

GRAUER, DR. DAVID, Psychol, see 10th ed, Soc. & Behav. Vols.

GRAUMANN, DR. HEINZ M(ORITZ), b. Berlin, Germany, May 10, 00; nat; m. 45; c. 2. PSYCHOLOGY. Berlin, 18; Marburg, 19; Ph.D.(psychol), Munich, 24. Staff psychologist, Netherlands Found. Psychotech, 38-42; Leidsch Psychol. Inst, 42-48; practicing psychotherapist, N.Y, 48-49; sr. clin. psychologist, TOPEKA STATE HOSP, 50-64, CHIEF PSYCHOLOGIST, 65- Staff psychologist, Univ. Amsterdam, 42-48. Royal Dutch Army, 45-48. Psychol. Asn; Group Psychother. Asn. Projective techniques; graphology. Publ: The nature of understanding; Disorder in perception and imagery. Address: 1025 Lincoln St, Topeka, Kans. 66604.

GRAVATT, DR. ARTHUR E(UGENE), b. Elma, Wash, July 17, 23; m. 55. SOCIOLOGY. B.A, Linfield Col, 49; M.A, Oregon, 51; Ph.D.(family studies), Oregon State, 63. Asst. sociol, Cornell, 51-53; instr, Willamette, 53-56, asst. prof, 56-62; sociol. & family life, Oregon State, 62-64; ASSOC. PROF. FAMILY RELS, PA. STATE, 64- Lectr, inst. aging, St. Louis, 54. U.S.N.R, 43-46. Sociol. Asn; Soc. Study Social Probs; Nat. Coun. Family Rels; Geront. Soc; Asn. Ment. Deficiency; Home Econ. Asn. Family relations; gerontology; social psychology. Publ: Family relations in middle and old age, J. Geront, 4/53; ed, Home economics program development for disadvantaged youth and their families, Proc. Conf, Pa. State Univ, 6-7, 65; Classroom sex education, J. Am. Col. Health Asn, 5/67. Address: Dept. of Child Development & Family Relations, S105 Human Development Bldg, Pennsylvania State University, University Park, Pa. 16802.

GRAVER, DR. HAROLD A(NDERSON), b. Colton, S.Dak, Jan. 28, 05; m. 46; c. 2. INDUSTRIAL PSYCHOLOGY. B.A, Northwestern, 28, M.A, 35, Ph.D. (personnel psychol), 42; Chicago, 30. Guid. counsr, high sch, Ill, 35-37; dir. admin. & guid, dent. sch, Northwestern, 37-42; psychol. consult, Stevenson, Jordan & Harrison, Ill, 44-45; Rohrer, Hibler & Replogle, 45-46; personnel dir, HARDWARE MUTUALS, 46-48, v.pres, 48-56, SECY, 56-, V.PRES, 66- V.pres. & secy, Sentry Life Ins, Co. & exec. dir, Sentry Found 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 51. U.S.N.R, 42-44, Lt. Fel. Psychol. Asn. Evaluation of psychological qualifications for business responsibilities; group dynamics; individual development. Publ: Manpower development plan in hardware mutuals, Proc. Am. Soc. Training Dirs. Address: Sentry Life Insurance Co, 1421 Strongs Ave, Stevens Point, Wis. 54481.

GRAVES, PRES. BENJAMIN BARNES, b. Jones Co, Miss, Nov. 5, 20; m; c. 3. BUSINESS ADMINISTRATION. B.A, 42, Mississippi, 42; M.B.A, Harvard, 47; Ph.D, La. State, 59. From cost analyst employee-rels. to asst. pub. rels. mgr, Humble Oil Co, 47-60; asst. prof, col. bus. admin, La. State, 60-62; assoc. prof, Virginia, 62-64; prof, Milner Chair indust. econ, Mississippi, 64-65; PRES, MILLSAPS COL, 65- Spec. lectr, col. bus. admin, La. State, 59-60, guest lectr, Mid South Exec. Develop. Prog, 62-, Banking Sch. South, 68; mgt. prog. nat. resource managers, Pa. State, 62-; Va-Md. Sch. Banking, Univ. Virginia, 62-; pres, Miss. Found. Independent Cols, 67-68. Mem. adv. cmt, Inst. Col. & Univ. Adminstr, 67-70. U.S.N, 42-46, Res, 46-55, Lt. Comdr. Acad. Mgt; Mkt. Asn; Am. Inst. Mgt. Marketing; finance. Publ: The involvement process—a teaching technique, Collegiate News & Views, 12/62; co-auth, Is there an organizational multiplier, Acad. Mgt. J, 63. Address: Millsaps College, Jackson, Miss. 39210.

GRAVES, DR. CLIFFORD L(INTON), b. Birmingham, Ala, Dec. 23, 16; m. 41. PSYCHOLOGY. B.A, Fenn Col, 41; M.A, Western Reserve, 47, Ph.D, 61. Secy, Cleveland YMCA, 41-43; consult, War Manpower Cmn, 43-45; instr, Fenn Col, 45-55; psychologist, Cleveland Boys Sch, 55-56; CLEVELAND BD. ED, 56-61, CHIEF PSYCHOLOGIST, 61- Lectr, Cleveland State, 55-; Western Reserve, 66- Psychol. Asn; Orthopsychiat. Asn. Address: 1380 E. Sixth St, Cleveland, Ohio 44114.

GRAVES, FRANK MALCOLM, b. Boston, Mass, Sept. 12, 27. SYSTEMS ANALYSIS, URBAN STUDIES. B.S, Syracuse, 49; M.B.A, Pittsburgh, 59, U.S. Steel Found. fel, 60-62. Chemist, Esselen Res. Corp, Mass, 49-52; tech. economist, Arthur D. Little Inc, 52-54; jr. fel, Mellon Inst, 54-60; dir. transportation res, Consad Res. Corp, Pa, 63-65, mgr. N.Y. Off, 65-66; mgr. client serv, EBS Mgt. Consult, Inc, 66; sr. economist, div. transportation & econ. planning, Battelle Mem. Inst. Labs, 67; Marcom Inc, 67-68; INDEPENDENT CONSULT, 68- Consult, Dept. of Justice, Commonwealth Pa, 63; Penn-Jersey Transportation Study, 64-65; Interstate Commerce Cmn, 65; New York City Planning Cmn, 65-66; Transportation Admin. City of New York, 66; U.S. Dept. Housing & Urban Develop, 67. Mem, Transportation Res. Forum. U.S.A, 46-47, Res, 49-57. Econ. Asn; Statist. Asn; Asn. Comput. Mach; Opers. Res. Soc. Am; Economet. Soc; Inst. Mgt. Sci. Transportation systems analysis and planning; urban information systems; quantitive analysis of urban planning decisions. Publ: Co-auth, Data processing analysis of the Pennsylvania-New York Central railroad merger, Papers Ann. Meeting Transportation Res. Forum, 63 & Management systems analysis and administrative law: a railroad merger example, Transportation J, Vol. 4, No. 2; auth, Computer models and public policy, In: Research and education for regional and area development, Iowa State Univ, 66. Address: 22 Riverside Dr, Apt. 11-A, New York, N.Y. 10023.

GRAVES, G(LENN) W(ILLIAM), b. Detroit, Mich, June 22, 29; m. 55. MATHEMATICS. B.A, West. Mich. Col. Ed, 51; M.A, Mich. State Col, 52; Ph.D. (math), Michigan, 63. Asst, Willow Run Res. Center, Michigan, 52-54, statist. res. lab, 54-62; mem. staff, Aerospace Corp, Calif, 62-64; Rand Corp, 64-65; ASSOC. PROF. BUS. ADMIN, CALIFORNIA, LOS ANGELES, 65- Math. Soc; Asn. Comput. Mach. Linear programming; numerical analysis; large scale digital computers; statistics. Address: Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

GRAVES, DR. JAMES A, b. Lexington, Ky, Nov. 1, 29; m. 60; c. 1. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Kentucky, 50, M.A, 52, Ph.D.(polit. sci), 65. ASSOC. PROF. POLIT. SCI. DIR. FRANKFORT SEMESTER, KY. STATE COL, 65- U.S.A.F, 51-53, Res, 53-, Maj. Polit. Sci. Asn; Nat. Munic. League; Acad. Polit. Sci; Soc. Pub. Admin. Eighteen to twenty-one year old voting behavior; training of college students for state government positions. Address: Dept. of History & Political Science, Kentucky State College, Frankfort, Ky. 40601.

GRAVES, DR. JAMES W(ILTON), b. McAllen, Tex, May 16, 29; m. 54; c. 3. AGRICULTURAL ECONOMICS. B.S, Cornell, 52; M.S, Agr. & Mech. Col, Tex, 58; Ph.D.(agr. econ), Mich. State, 64. Asst. prof. AGR. ECON, Tex. Tech. Col, 61-63; Texas A&M, 63-67; ASSOC. PROF, TEX. TECH. COL, 67- Participant, Nat. Sci. Found. Inst. Math. of Optimization, summer, 65. U.S.A.F, 52-55. Agr. Econ. Asn. Agricultural marketing and prices. Publ: Co-auth, Effects of deferred ginning of cotton on cotton fiber quality, 7/65, auth, Effects of 1966 cotton adjustments in Texas, 7/67 & Raw cotton requirements of textile mills and implications for southwestern cotton, 12/67, Texas A&M Univ. & Tex. Agr. Exp. Sta. Address: Dept. of Agricultural Economics, Texas Technological College, Lubbock, Tex. 79409.

GRAVES, PROF. LEVERN F, b. Watertown, S.Dak, Aug. 3, 25; m. 48. ECONOMICS. A.B, California, Berkeley, 52, Ph.D.(econ), 63; Hopkins, 52-53. Asst. prof. ECON, Fla. State, 56-58; Nevada, 59-60; CALIF. STATE COL. FULLERTON, 60-62, assoc. prof, 62-67, PROF. & CHMN. DEPT, 67- Econ. Asn. Macro-economics; monetary theory; labor statistics; taxation. Publ: State and local tax burdens in California, Calif. State Assembly, 64. Address: Dept. of Economics, California State College at Fullerton, 800 N. State College Blvd, Fullerton, Calif. 92631.

GRAVES, PROF. RICHARD W(ADSWORTH), b. Wilmington, Del, Dec. 21, 23; m. 66; c. 1. ECONOMICS, QUANTITATIVE ANALYSIS. B.B.A, Texas, 49, M.B.A, 51; D.B.A, Indiana, 59. Res. assoc, bur. bus. res, Texas, 49-51; instr. statist, Tulane, 51-53, asst. prof, 55-56; statistician, bur. bus. res, Indiana, 53-55, asst. prof. bus. econ, univ, 56-60; assoc. prof. econ, Arizona State, 60-61; prof. bus. econ, Southern California, 61-66, chmn. dept, 62-66; prof. bus. admin. & adv, Univ. Jordan, 66-68; CHMN. DEPT. ADMIN. SCI, CALIF. STATE COL. SAN BERNARDINO, 68- Dean's award, Southern California, 63. Qm.C, U.S.N, 43-46. Econ. Asn; Statist. Asn. Impact of technology on business and society; new methods of education for business. Publ: Co-auth, Economics of natural gas in Texas, Univ. Texas, 52; Study of California property tax, Southern California, 65. Address: 1852 Monterey Rd, South Pasadena, Calif. 91108.

GRAVES, DR. THEODORE D(UMAINE), b. Concord, Mass, June 2, 32; m. 56; c. 2. ANTHROPOLOGY, SOCIAL PSYCHOLOGY. B.A, Earlham Col, 54; M.A, Colorado, 57; Ph.D.(anthrop), Pennsylvania, 62. Res. asst. psychol, Colorado, 56-57; asst. ANTHROP, Pennsylvania, 58-59; COLORADO, 59-61, res. assoc, 61-64, asst. prof, 63-67, ASSOC. PROF, 67-, instr. psychol, 60-62, dir. res. training prog. culture change, 63-67. Vis. lectr, Makerere Univ. Col, Uganda, 67-68. Dir, Navajo Urban Relocation Res. Proj, Nat. Inst. Ment. Health, 63-67, mem. behav. sci. fel. rev. cmt, 65-; dir. community growth in contemporary Mex. Soc. Sci. Res. Coun, 66-67; Indian Ed. Res. Proj, Bur. Indian Affairs, 66- Anthrop. Asn; Soc. Appl. Anthrop; Soc. Int. Develop. Culture change, modernization; methodology. Publ: Co-auth, Society, personality and deviant behavior: a social-psychological study of a tri-ethnic community, Holt, 68; auth, Alternative models for the study of urban migration, Human Orgn, 66; Acculturation, access and alcohol in a tri-ethnic community, Am. Anthropologist, 67. Address: Institute of Behavioral Science, University of Colorado, Boulder, Colo. 80302.

GRAVES, PRES. WALLACE B(ILLINGSLEY), b. Ft. Worth, Tex, Feb. 10, 22; m. 43; c. 3. INTERNATIONAL RELATIONS. B.A, Oklahoma, 43; M.A, Texas Christian, 47; fel, Texas, 47-50, Ph.D.(int. rels), 53. Assoc. prof. polit. sci, DePauw, 50-58; Armstrong prof. constitutional govt. & dean men, Tex. Wesleyan Col, 58-63, asst. to pres, 63-65; acad. v.pres, Univ. of the Pacific, 65-67; PRES, EVANSVILLE, 67- Ford. Found. fel, Iowa, 55. Mem, Methodist Church Bd. Ed, 67- U.S.A, 43-45, Sgt. Polit. Sci. Asn. American government; motivations and goals of contemporary Russian foreign policy problems in development of non-self-governing territories toward political independence. Publ: Great Britain, the United Nations, and the British non-self governing territories; Why can't the Russians be like us. Address: University of Evansville, Evansville, Ind. 47704.

GRAVES, DR. W(ILLIAM) BROOKE, b. Charlottesville, Va, May 4, 99. GOVERNMENT, POLITICS. A.B, Cornell, 21; A.M, Pennsylvania, 23, Ph.D, 36. Asst, Am. hist, Cornell, 20-21; instr. polit. sci, Pennsylvania, 21-23; econ. & polit. sci, Temple, 23-25, prof. polit. sci. & head dept, 25-42; Bryn Mawr Col, 45-46; SPECIALIST AM. GOVT. & PUB. ADMIN, LEGIS. REFERENCE SERV, LIBRARY OF CONG, 46- Adj. prof, American Univ, 50- Vis. prof, Swarthmore Col, 36-37; Fla. State, 51-52; Minnesota, 54-55; Alaska, 59-60. Polit. Sci. Asn; Hist. Asn; Acad. Polit. & Soc. Sci. State government and administration; inter-governmental relations; parties and public opinion; public administration. Publ: American state government; American intergovernmental relations; ed, Major problems in state constitutional revision. Address: Library of Congress, Washington, D.C. 20540.

GRAVES, DR. WINIFRED SIBLEY, Psychol, see 10th ed, Soc. & Behav. Vols.

GRAVITZ, DR. MELVIN A, b. Baltimore, Md, Dec. 8, 27; m. 50; c. 4. PSYCHOLOGY. B.A, George Washington, 50, M.A, 51; Ph.D.(clin. psychol), Adelphi, 55. Clin. psychol. intern, Springfield State Hosp, Md, 53-54; dir, Hillsborough County Guid. Center, 55-57; chief clin. psychologist, adult ment. health div, D.C. Dept. Pub. Health, 57-61; CLIN. PSYCHOLOGIST, 61- Lectr, Montgomery Jr. Col, 57-64; Univ. Maryland, 61-63; adj. prof, American Univ, 67- Consult. staff, Wash. Hosp. Center, 59-; consult. psychologist, Legal Psychiat. Serv, Wash. D.C, 61-64. U.S.N, 45-47. Fel. Psychol. Asn; fel. Soc. Proj. Tech; Soc. Clin. & Exp. Hypnosis. Consultation; psychological testing and assessment; counseling and psychotherapy; administration; development of psychological programs; hypnosis. Publ: Self-described depression and scores on the MMPI "D" scale in normal subjects, J. Proj. Tech, 68; Normative findings for the frequency of MMPI critical items, J. Clin. Psychol, 68; Frequency and content of test items normally omitted from MMPI scales, J. Consult, Psychol, 68. Address: 2025 Eye St, N.W, Washington, D.C. 20006.

GRAY, PROF. ALBERT L(EWIS), JR, b. Philadelphia, Pa, Nov. 30, 17; m; c. 3. STATISTICS. B.S, Drexel Inst. Tech, 39; M.B.A, Boston, 40; Ph.D, Pennsylvania, 58. Asst. prof. statist, Drexel Inst. Tech, 40-51; assoc. prof. bus. & statist, Elizabethtown Col, 51-60; PROF. ECON, BALDWIN-WALLACE COL, 60- Fel, Chicago, summer 62; Fulbright grant, Egypt, summer 65. Consult, Am. Col. Life Underwriters, 58- Statist. Asn; Econ. Asn. Statistical methods in social sciences. Address: Dept. of Economics, Baldwin-Wallace College, Berea, Ohio 44017.

GRAY, DR. BERNARD, b. New York, N.Y, Oct. 20, 35; m. 56; c. 3. PSYCHOLOGY. A.B, Brooklyn Col, 56; Princeton, 56-57; Nat. Inst. Ment. Health fel, Princeton & Brandeis, 57-60; Ph.D.(psychol), Brandeis, 60; S.M, Harvard, 63. ASSOC. MED. PSYCHIAT, PETER BENT BRIGHAM HOSP, BOSTON, 63-; DIR. RES, VOC. REHAB. PLANNING CMN, COMMONWEALTH OF MASS, 66- Instr, Boston State Col, 64-65; Boston Univ, 65, consult, sch. nursing, 67-; res. assoc, sch. med. & assoc. in ed, grad. sch. ed, Harvard, 65- Dir. psychol. res, N.Suffolk Ment. Health Center, East Boston, Mass, 64-66. Med.Serv.C, U.S.A.R, 60-63, Capt. Psychol. Asn. Planning in health and welfare; psychosomatic research; community mental health. Publ: Two misunderstandings of psychoanalytic theory, Psychoanal. & Psychoanal. Rev, spring, 59; co-auth, What price leadership?, Mil. Med, 3/65; auth, The differential aptitude tests in a military academic setting, J. Ed. Res, 4/65. Address: 133 Salisbury Rd, Brookline, Mass. 02146.

GRAY, DR. CLIFTON W, b. Lyndon, Vt, Jan. 21, 26. PSYCHOLOGY. Ph.D. (psychol), Minnesota, 59. Res. psychologist, Asn. Am. Med. Cols, 56-57; asst. statistician, N.C. State Col, 57-60, asst prof. PSYCHOL, 60-62; res.

psychologist, Norwich Hosp, Conn, 62-65; asst. prof, MINNESOTA, MORRIS, 65-66, ASSOC. PROF, 66- U.S.A, 46-53, Capt. AAAS; Psychol. Asn; Statist. Asn. Probabilistic information processing. Publ: Co-auth, Process of prediction as a function of the correlation between scaled variables, Psychonomic Sci, 65 & Associative asymmetry as a function of pronounceability, J. Exp. Psychol, 66; auth, Predicting with intuitive correlations, Psychonomic Sci, 68. Address: Psychology Laboratory, University of Minnesota, Morris, Minn. 56267.

GRAY, PROF. DAVID J, b. Scranton, Pa, Mar. 25, 29; m. 52; c. 3. SOCIOLOGY. B.A, Pa. State, 52, M.A, 55, Ph.D.(sociol), 58. Salesman, glass & closure div, Armstrong Cork Co, 52; personnel asst, employ. div, Pa. State, 52-54, part-time instr. SOCIOL, 55-57; asst. prof, Richmond, 57-59; COL. WILLIAM & MARY, 59-62, assoc. prof, 62-67, PROF, 67- Volker Fund res. grant, 59-60; summer res. grants, Col. William & Mary, grants, 62, 64, 66, 67. U.S.A.F, 46-48. Individualism and conformity; relationship between sociology as a science; matter of human values. Publ: Sociology as a science, Am. J. Econ. & Sociol, 10/62; Individualism in an organized America, Mod. Age, summer 64; Value-free sociology: a doctrine of hypocrisy and irresponsibility, Sociol. Quart, winter 67. Address: Dept. of Sociology & Anthropology, College of William & Mary, Williamsburg, Va. 23185.

GRAY, DR. DAVID M(ACDONALD), b. Richwood, W.Va, Mar. 20, 31; m. 52; c. 2. INTERNATIONAL RELATIONS. B.A, Pennsylvania, 52, M.A, 54, Penfield fel, 61-62, Ph.D.(int. rels), 65. Instr. polit. sci, Drexel Inst. Tech, 56-57; Pennsylvania, 57-59; asst. prof, Drew, 59-63; ASSOC. PROF. GOVT, BEAVER COL, 64-, DIR. INT. PROGS. & ASST. TO PRES, 67- Polit. Sci. Asn; fel. African Studies Asn; Int. Polit. Sci. Asn; Soc. Int. Develop. Foreign policy formulation; Nigerian foreign policy. Publ: Co-ed, Selected readings on rising influences in tropical Africa; auth, Prospectus: foreign policy formulation in emergent African nations. Address: Beaver College, Glenside, Pa. 19038.

GRAY, DR. E(DWARD) R(UTHERFORD), Finance, see 10th ed, Soc. & Behav. Vols.

GRAY, DR. EUGENE TAYLOR, b. Milton, Mass, July 29, 26; m. 49; c. 2. SPEECH PATHOLOGY. B.A, Union Col, 50; M.A, West Virginia, 51; Ph.D. (speech), Oklahoma, 63. Instr. speech path, West Virginia, 51-52; speech, Marietta Col, 52-55; speech pathologist, E. Tenn. Hearing & Speech Center, 55-60, asst. dir, 63-65; asst. prof. speech path, Syracuse, 65-66; CHIEF COMMUN. DISORDERS, VET. ADMIN. CENTER, 66- Lectr, South Florida, 66- U.S.N, 44-46. Speech & Hearing Asn; Speech Asn. Communication disorders: articulation, aphasia & alaryngeal speech. Publ: Speech for the laryngectomee—a basic philosophy, Proc. 7th Int. Conf. Geront, 66. Address: Veterans Administration Center, Bay Pines, Fla. 33504.

GRAY, DR. GIBSON HENDRIX, b. Lufkin, Tex, Oct. 26, 22. POLITICAL SCIENCE. B.B.A, Texas, 47; M.A, Columbia, 50, Ph.D.(govt), 67, cert, Russian Inst, 50. Asst. to chief clerk, Gov. of Pa, 61-63; pop. specialist, Pa. State Planning Bd, 63-66; ASST. PROF. GOVT, NORTH TEXAS STATE, 67- Vis. prof, Midwestern, summer 67. Med.C. & Qm.C, U.S.A, 43-46. Polit. Sci. Asn; Soc. Pub. Admin. American government, interest groups, lobbying, public opinion, urban politics, political parties; government and international relations of the Soviet Union. Publ: Co-auth, The population of Pennsylvania: a social profile, Pa. State Planning Bd, 63. Address: Dept. of Government, North Texas State University, Denton, Tex. 76203.

GRAY, PROF. JAMES R(OBERT), b. Boise, Idaho, Nov. 10, 21; m. 46; c. 3. AGRICULTURAL ECONOMICS. B.S, Utah State, 47, M.S, 49; Johnson fel, Oregon State, 55-57, Ph.D, 57. Agr. economist, bur. agr. econ, U.S. Dept. Agr, 49-58; assoc. prof. AGR. ECON, NEW MEXICO STATE, 58-64, PROF, 64-, distinguished res. award, col. agr. & home econ, 65. U.S.A.A.F, 42-45, Sgt. Agr. Econ. Asn; Soc. Range Mgt. Ranch and forest economics; marketing; natural resource economics; recreation economics. Publ: Ranch economics, Iowa State Univ, 68; Organization costs and returns on cattle ranches, Mont. Agr. Exp. Sta. Bull; Cattle ranches-southwest. Address: Box 3168, New Mexico State University, Las Cruces, N.Mex. 88001.

GRAY, JOHN LEWIS, Forestry, Forest econ, see 11th ed, Phys. & Biol. Vols.

GRAY, DR. J(OHN) STANLEY, b. Freeport, Ohio, Nov. 8, 94; m. 23; c. 3. PSYCHOLOGY. A.B, Muskingum, 20; A.M, Michigan, 24; Ph.D.(psychol), Ohio State, 29. Prof. speech, Gustavus Adolphus Col, 21-24; instr. Eng, Minnesota, 24-25; asst. prof, Oregon, 25-27; psychol, Pittsburgh, 30-46; prof, Denver, 46-47; Georgia, 47-62; Southern Illinois, 62-65; RETIRED. Vis. prof, Texas, 54, 56. Consult, Westinghouse Airbrake Co, 45-46. U.S.A, 17-18. Fel. Psychol. Asn. Industrial and applied psychology; biological interpretation of the learning process; educational psychology. Publ: Psychology applied in human affairs; Psychology in industry; Psychology in use. Address: Marys Lake Rd, Estes Park, Colo. 80517.

GRAY, DR. PHILIP A(LAN), b. Defiance, Ohio, May 10, 36; m. 59; c. 3. SPEECH, COMMUNICATIONS. B.A, Ohio Northern, 58; M.A, Ohio State, 61, Ph.D.(commun), 66. Teacher, pub. schs, Ohio, 58-62; instr. SPEECH, Ohio State, 64-66; ASST. PROF, NORTHERN ILLINOIS, 66- Dir, Ohio High Sch. Speech League, 64-65; lectr, DeKalb Industs. Commun. Prog, 67- Consult, Ill. Div. Voc. Rehab, 66-67. Speech Asn. Group communications; communication theories; persuasion. Address: Dept. of Speech, Northern Illinois University, DeKalb, Ill. 60115.

GRAY, DR. PHILIP H(OWARD), Psychol, see 11th ed, Phys. & Biol. Vols.

GRAY, DR. RALPH, b. Cleveland, Ohio, Aug. 1, 31; m. 55; c. 2. ECONOMICS. B.S.C, Ohio, 56; A.M, Syracuse, 58, Ph.D.(econ), 62. Regional & fiscal economist & ed, Arkansas Economist, 58-62; asst. prof. econ, Ohio, 62-65; assoc. prof, DePauw, 65-67; ASST. DIR. ECON. DEVELOP. PROG, OFF. GOV. ARK, 67- Asst. prof, Little Rock, summer 62. Consult, First Nat. Bank, 60-; W. Paul Brann & Assocs, 62; mkt. consult, Asn. Advert. Typographers, New York, 65- U.S.N.R, 52-54. Econ. Asn. Public finance; regional economics. Publ: Co-auth, American economic development, Irwin, (in press); auth, Industrial development subsidies & efficiency in resource allocation, Nat. Tax J, 64; An economic view of municipal industrial development subsidies, Munic. Finance, 64. Address: Economic Development Program, Room 408, National Old Line Bldg, Little Rock, Ark. 72201.

GRAY, PROF. RICHARD B(UTLER), b. Ft. Atkinson, Wis, May 29, 22. POLITICAL SCIENCE. B.A, Wisconsin, 47, Knapp fel, 55-56, Ph.D.(polit. sci), 57; M.A, Fletcher Sch. Law, 49; Buenos Aires Convention grant, Havana, 55-56, dipl, 56. Asst. dir. Dominican-Am. Cultural Inst, U.S. Dept. State, Dominican Repub, 49-50, acting dir, 50-51; asst. polit. sci, Wisconsin, 54-55; instr. econ, Villanova Univ, Cuba, 56-57; asst. prof. hist. & govt, C.W. Post Col, Long Island, 57-58; govt, FLA. STATE, 58-61, assoc. prof. GOVT, 61-66, PROF, 66-, CHMN. DEPT. INT. AFFAIRS, 59- Lectr, Duke, 61; summer vis. lectr, Wisconsin, 58, 62, Jacksonville, 64. Consult, Auburn Conf. Int. Affairs, Ala, 61; Teachers for Africa Prog, Columbia, 61; World Law Fund, 64-; Am. Coun. Ed, 66-67. U.S.A, 43-46. Polit. Sci. Asn; Latin American government, especially Cuba and the Dominican Republic. Publ: José Martí: Cuban patriot, Univ. Florida, 62; José Martí and social revolution in Cuba, J. Inter-Am. Studies, 4/63; The Quesadas of Cuba: biographers and editors of Jose Martí, The Americas, 4/66. Address: Dept. of Government, Florida State University, Tallahassee, Fla. 32306.

GRAY, PROF. ROBERT D(AVIS), b. Warren, Pa, Oct. 14, 09; m. 41; c. 1. ECONOMICS. B.S, Pennsylvania, 30. Asst. indust. res, Pennsylvania, 27-35, res. assoc, 35-37; asst. prof. econ, Connecticut, 37-40; assoc. prof. ECON. & INDUST. RELS, CALIF. INST. TECH, 40-42, PROF, 42-, DIR. INDUST. RELS. CENTER, 41- Mem, State Personnel Bd, 44-63. Indust. Rels. Res. Asn. Industrial relations; employee opinion; compensation of employees; development of supervisors. Publ: Guide to systematic wage and salary, 59 & Manual for conducting an employee opinion poll, 66, Caltech Indust. Rels. Center; Evaluating the personnel department, Personnel J, 3-4/65. Address: Industrial Relations Center, California Institute of Technology, Pasadena, Calif. 91109.

GRAY, DR. ROBERT F(RED), b. Marshall, Minn, Apr. 28, 12; m. 55. ANTHROPOLOGY. M.D, Northwestern, 40; Fulbright fel, Makerere Univ. Col, Uganda, 50-51; Ford Found. fel, Inst. Current World Affairs, Africa, 54-56; Ph.D.(anthrop), Chicago, 58. Private practice, Minn, 45-50; res. assoc, Human Rels. Area Files, Inc, 59; vis. assoc. prof. ANTHROP, Illinois, 59-61; assoc. prof, TULANE, 61-65, PROF, 65- Nat. Insts. Health res. grant, Africa, 64-65. R.A.M.C, 41-44; Med.C, U.S.A, 44-45, Capt. Fel. Anthrop. Asn; fel. African Studies Asn. Social anthropology; human ecology in Africa; tsetse fly and trypanosomiasis; primitive medicine. Publ: The Sonjo of Tanganyika, Oxford Univ, 63; co-auth, The family estate in Africa, Routledge & Kegan Paul, 64; auth, Positional succession among the Wambugwe, Africa. Address: Dept. of Anthropology, Tulane University, New Orleans, La. 70118.

GRAY, PROF. ROBERT M(ACK), b. Farmington, Utah, Apr. 27, 22; m. 46; c. 2. SOCIOLOGY. Ph.D, Chicago, 54. Asst. prof. sociol, New Mexico Highlands, 52-55; UTAH, 55-66, PROF. SOCIOL. & CHIEF DIV. COMMUNITY & SOC. SCI, 66- U.S.N.R, 43-44. Sociol. Asn; Soc. Study Social Probs. Medical sociology; research theory. Publ: The church and the older person; The effects of social class and friends expectations on immunization participation, Am. J. Pub. Health; The effect of medical specialization on physicians attitudes, J. Health & Human Behav. Address: Dept. of Sociology, University of Utah, Salt Lake City, Utah 84112.

GRAY, PROF. ROBERT T(RULL), b. Kirwin, Kans, July 17, 24; m. 48. STATISTICS, EDUCATIONAL PSYCHOLOGY. A.B, M.Ed. & Ed.D.(ed. statist), Kansas. Asst. dir. reading clin, Kansas, 51-52, instr. ed. eval, univ, 52-53; assoc. prof. ed. & dir. testing, Cent. Mo. State Col, 53-56; dean counseling & testing, SAN DIEGO STATE COL. 56-61, PROF. ED. & COORDINATOR BUR. ED. RES, 61- U.S. Off. Ed. res. grant, 67. Ed. res. consult, U.S. Agency Int. Develop, Brazil & Jamaica, 67. U.S.N.R, 43-46, Lt.(jg). Psychol. Asn. Educational research; test construction. Publ: Analysis of the effect of study methods instruction upon attitude toward school and related factors; Tables for transmutation of orders of merit into units of amount or scores, J. Exp. Ed; An adaptation of the IBM Port-A-Punch Cards for direct computer processing of objective test results, J. Mach. Acct. Address: Dept. of Education, San Diego State College, San Diego, Calif. 92115.

GRAY, PROF. ROGER W(INKS), b. Watseka, Ill, Apr. 28, 21; m. 42; c. 3. AGRICULTURAL ECONOMICS. B.A, Colorado, 42, M.A, 47; fel, Minnesota, 50-53, Ph.D, 52. Instr. econ, Colorado, 46-47; Minnesota, 47-50; asst. economist, Bank Am, 53-54; assoc. prof. econ. & assoc. economist, FOOD RES. INST, STANFORD, 54-60, PROF. & ECONOMIST, 60- Summer, Soc. Sci. Res. Coun. fel. math. econ, 56. U.S.A.A.F, 42-46, Sgt. Agr. Econ. Asn. Commodities, prices and markets; agricultural policy. Publ: Caricature and the orientation of agricultural economics, J. Farm Econ; Search for a risk premium, J. Polit. Econ; co-auth, Economic analysis of the impact of government programs on the potato industry of the United States. Address: 901 Newell Rd, Palo Alto, Calif. 94303.

GRAY, DR. T(HOMAS) HARRISON, b. Sioux Falls, S.Dak, July 17, 31; m. 63; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Vanderbilt, 53, M.A, 58, Ph.D. (psychol), 63. Mgt. selection rep. indust. psychol, Lockheed Aircraft Corp, Ga, 59-60, sr. human factors engr, 66-67, asst. advert. res. mgr, Curtis Pub. Co, Pa, 61-62; res. scientist, HumRRO, D.C, 63-66; STAFF ENGR. PSYCHOL, HONEYWELL INC, WEST COVINA, 67- U.S.A, 53-55. Psychol. Asn; Human Factors Soc. Application of principles and methods of scientific psychology to large scale systems in which the human component plays a vital role. Publ: Co-auth, Speed and accuracy of addition in normal time and decimal time systems, 66 & Techniques for low altitude navigation: direction estimation from tactical maps, 67, George Washington Univ. Address: 537 Pinto Mesa Dr, Diamond Bar, Calif. 91766.

GRAY, PROF. WAYNE T(WINEM), b. Fairfield, Nebr, July 12, 97; m. 28; c. 2. SOCIOLOGY. B.S, Nebraska, 22; A.M, Wisconsin, 28, Ph.D.(sociol), 32. Prof. sociol. & chmn. dept, Union Col.(Ky), 30-45; assoc. prof, DePauw, 45-

49; prof. sociol. & chmn. div. soc. sci, Iowa Wesleyan Col, 49-51; prof. SOCIOL. & chmn. dept, FAIRMONT STATE COL, 51-66, EMER. PROF, 66- Summers, res. fel, Yale, 44, econ-in-action fel, Case, 55, instr, Simpson Col, 40, 41, Louisville, 45, N.Mex. West. Col, 51, Montana, 52. Sociol. Asn; Rural Sociol. Soc. Leisure time as a criteria of the rural standard of living; mountain dilemmas; factors affecting teacher tenure in the Appalachian Highlands. Address: Fairmont State College, 1358 College Park, Fairmont, W.Va. 26554.

GRAY, W(ILLIAM) DONALD, b. Roanoke Rapids, N.C, Jan. 1, 35; m. 54; c. 3. POLITICAL SCIENCE. A.B, North Carolina, 57; Woodrow Wilson fel, Princeton, 57-58, univ. fel, 58-59, Ferris fel, 59-60. Asst. to nat. dir, Woodrow Wilson Nat. Fel. Found, 60-61; res. analyst, INTERGOVT. RELS. SUBCMT, CMT. GOVT. OPERS, U.S. HOUSE OF REP, 61-63; SR. INVESTR, 64- Am. Polit. Sci. Asn. congressional staff fel, 66-67; guest lectr, sch. med, George Washington, 66. Regulatory administration; intergovernmental relations; consumer protection activities of federal, state and local governments; administration of drug safety activities by federal agencies. Publ: Identification and recruitment of prospective college teachers, Sch. & Soc, 11/59. Address: 8605 Allentown Rd. S.E, Washington, D.C. 20022.

GRAY, PROF. WILLIAM H(ENRY), b. Hamilton, Ont, May 25, 94; nat; m. 21. PSYCHOLOGY. B.A, Manitoba, 18; M.A, Chicago, 26, Ph.D.(ed), 29. Wesley Col, Winnipeg, 21-23; asst. prin, high schs, Can, 23-25; asst, Chicago, 29; assoc. prof. PSYCHOL, KANS. STATE TEACHERS COL, 29-42, prof, 46-64, EMER. PROF, 64- U.S.A, 42-45, Capt. Psychol. Asn. Educational psychology. Address: 1426 State St, Emporia, Kans. 66801.

GRAYBAR, DR. LLOYD J(OSEPH), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GRAYBEAL, DR. DAVID M(cCONNELL), b. Radford, Va, June 17, 21; m. 48; c. 3. SOCIOLOGY. B.A, Emory & Henry Col, 41; B.D, Yale, 49, Ph.D, 52. Assoc. prof. relig. & chaplain, Emory & Henry Col, 52-55; ASSOC. PROF. CHURCH & SOC, DREW THEOL. SEM, 56- Fel. sociol. of relig, Strasburg, 62-63; dir, Metrop. Urban Serv. Training, 66- U.S.N.R, 42-46, Lt. Sociol. Asn; Econ. Asn; Rural Sociol. Asn. Protestant church patterns in the southern Appalachians; relationship of religion to culture; guaranteed income proposals; re-study of Appalachian City, Morristown, Tennessee. Publ: The Christian family and its money, Methodist Church, 63; Can't we all be rich, Friendship, 66. Address: Drew Theological Seminary, Madison, N.J. 07940.

GRAYBILL, DR. FRANKLIN A, Math. Statist, see 11th ed, Phys. & Biol. Vols.

GRAYDEN, DR. CHARLES, b. Baltimore, Md, Sept. 27, 24; m. 51; c. 2. CLINICAL PSYCHOLOGY. B.S.S, City Col. New York, 48, M.S.S, 49; Ph.D, N.Y. Univ, 58. Intern clin. psychol, Menninger Found, 50-51; staff psychologist, Okla. West. State Hosp, 53-56; asst. clin. & res. psychologist, Mt. Sinai Hosp, New York, 56-58; staff psychologist, N.Dak. State Hosp, Jamestown, 58-59; asst. dir. psychol. dept, Ment. Health Inst, Independence, Iowa, 59-62; CHIEF PSYCHOLOGIST, N.Cent. Kans. Guid. Center, 62-65; GEARY-RILEY GUID. CENTER, 65- Lectr, North Dakota, 58-59. U.S.A.A.F, 43-45, Sgt. Psychol. Asn. Psychodiagnostics; psychotherapy. Address: 225 Ridge Dr, Manhattan, Kans. 66502.

GRAYSON, PROF. HENRY W(ESLEY), b. Can, May 24, 10; m. 42; c. 2. ECONOMICS. B.A, Saskatchewan, 37; M.A, Toronto, 47, Ph.D.(econ, sociol), 50. Res. economist, dept. trade & commerce, Ottawa, 47-49; prof. econ. & sociol, Wis. State Col, 49-51; assoc. prof. econ, Maryland, 51-62; PROF. BUS. ECON. & CHMN. DEPT, HAWAII, 62- Smith-Mundt fel, Khartoum, 60-61. R.C.A.F, 43-45. Econ. Asn; Can. Polit. Sci. Asn. Economic theory; public finance; social economics. Publ: Crisis of the middle class, Economics, elements of analysis and policy; Price theory in a changing economy, 65. Address: Dept. of Business Economics, University of Hawaii, Honolulu, Hawaii 96822.

GRAYSON, DR. PAUL E(UGENE), b. New York, N.Y, Oct. 6, 18; m. 45; c. 2. ECONOMICS. B.S, Chicago, 38; Ph.M, Wisconsin, 40; M.S, Cornell, 49, Ph.D.(agr. econ), 52. Plant quarantine inspector, U.S. Dept. Agr, 46-47; surv. statistician, U.S. Bur. Census, 51-56; soc. ins. res. analyst, U.S. Bur. Old-Age & Survivors Ins, Baltimore, 56-62; statistician, INTERNAL REVENUE SERV, D.C, 62-63 CHIEF STATIST. RES. STAFF, 63- Lectr, Catonsville Community Col, 60-61; Trinity Col.(D.C), 63-64. U.S.A.A.F, 42-45, Sgt. Statist. Asn. Agricultural economics; labor force analysis; economic survey; economics of social insurance programs; statistical methodology. Publ: Measuring the goodness of an economic land classification; Supply-price relationship for corn, 1920-1947; Farm housing in the United States and recent farm housing legislation, J. Farm Econ. Address: 10607 Cavalier Dr, Silver Spring, Md. 20901.

GRAZIANO, DR. ANTHONY M, b. Nyack, N.Y, Feb. 18, 32; m. 59; c. 3. PSYCHOLOGY. B.A, Columbia Col, 54; U.S. Vet Admin. intern, 55-59; M.S, Mich. State, 57; Ph.D.(psychol), Purdue, 61. Devereux Found. fel. child-clin. psychol, 60-61; instr. PSYCHOL, BRIDGEPORT, 61-62, asst. prof, 62-65, ASSOC. PROF, 65- Dir, Child Develop. Center, Bridgeport, Conn, 63-67; dir, Summer Camp for Emotionally Disturbed Children, 63- Consult, Child Treatment Home, State of Conn, 67-; Found. Sch, Milford, Conn, 67- Psychol. Asn; Soc. Res. Child Develop. Behavior therapy; programmed learning. Publ: Co-auth, Programmed relaxation and reciprocal inhibition with psychotic children, Am. Psychol. Asn, 67, Anxiety and set in the Rorschach test, J. Consult. Psychol, 64 & Training parents as speech therapists, Speech J, 68. Address: Dept. of Psychology, University of Bridgeport, Bridgeport, Conn. 06602.

GREANEY, DR. WALTER T(HOMAS), JR, b. Boston, Mass, Mar. 2, 23. ECONOMICS, LAW. A.B, Boston Col, 43; LL.B, Boston, 48, LL.M, 49; A.M. Harvard, 55, Ph.D.(econ), 60. Instr. ECON, BOSTON COL, 55-58, asst. prof. 58-63, ASSOC. PROF, 63- Private law practice, 49-; summer vis. prof. Harvard, 61, Case, 64 & N.Y. Univ, 65. U.S.A, 43-45, Sgt. Econ. Asn; Finance Asn. Business organization and control; social and ethical problems in business administration. Publ: Federal, state, local finance in Massachusetts; Organization and structure of the budget in Massachusetts. Address: 14 Pond Circle, Jamaica Plain, Mass. 02130.

GREAVES, PERCY L(AURIE), JR, b. Brooklyn, N.Y, Aug. 24, 06; m. 30; c. 3. ECONOMICS. B.S, Syracuse, 29; Columbia, 33-34; N.Y. Univ, 50-68. Exec. trainee, Gillette Safety Razor Co, 29, asst. advert. mgr, 31-32; instr. econ, Young Men's Hebrew Asn, 33-34; financial ed. & res. economist, U.S. News, 34-36; advert. mgr. European subsidiaries, Pet Milk Co. & Carnation Milk Co, France, 36-38; asst. mgr. advert. & pub. rels. res, Metrop. Life Ins. Co, 38-43; assoc. res. dir, Republican Nat. Cmt, 43-45; exec. dir, Found. for Freedom, Inc, 46-48; AUTHOR, LECTR. & CONSULT, 48- Adv, Christian Freedom Found, 50-58; guest lectr, Freedom Schs, Inc, 57-60; seminar lect. & discussion leader, Found. Econ. Ed, Inc, 62-; Armstrong prof, Univ. Plano, 65- Mem, Naval Hist. Found, 62- Econ. Asn; Hist. Asn. Free market economy; causes of depressions; business cycles and inflation; attack on Pearl Harbor. Publ: On freedom and free enterprise; Essays on liberty; contrib, Perpetual war for perpetual peace. Address: P.O. Box 298, Dobbs Ferry, N.Y. 10522.

GREBLER, PROF. LEO, b. Berlin, Germany, Apr. 25, 00; nat; m. 27; c. 1. ECONOMICS. Ph.D.(econ), Giessen, 26. Res. prof. urban land use & housing, Columbia, 48-57; PROF. REAL ESTATE & URBAN LAND ECON, GRAD. SCH. BUS. ADMIN, CALIFORNIA, LOS ANGELES, 57- Sr. economist, Coun. Econ. Advs, 55-57. Pabst award, 44. Econ. Asn; Finance Asn. Urban land economics; construction and housing; finance. Publ: Capital formation in residential real estate; Europe's reborn cities; Housing issues in economic stabilization policy. Address: Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

GREBSTEIN, DR. LAWRENCE CHARLES, b. Providence, R.I, Feb. 17, 37; m. 66. PSYCHOLOGY. A.B, Brown, 58; M.A, Kentucky, 61, Ph.D.(psychol), 64. ASSOC. PROF. PSYCHOL. & DIR. CLIN. TRAINING, RHODE ISLAND, 64- Consult. psychologist, Washington County Ment. Health Clin, R.I, 64-66; chief consult, Warwick Community Guid. Clin, R.I, 64- Psychol. Asn. Clinical judgment; defensive behavior. Publ: Relative accuracy of actuarial prediction, experienced clinicians and graduate students in a clinical judgment task, 63, co-auth, Repression-sensitization and social desirability responding, 64 & auth, Defensive behavior in an interpersonal situation, 67, J. Consult. Psychol. Address: Dept. of Psychology, University of Rhode Island, Kingston, R.I. 02881.

GRECO, DR. PETER V, b. Brooklyn, N.Y, Dec. 29, 31; m. 55; c. 2. GEOGRAPHY, EDUCATION. A.B, Fordham, 52; M.A, Columbia, 56, Ed.D.(geog. ed), 65. Teacher, high schs, N.Y, 55-62; lab. sch, Univ. Chicago, 62-64, instr. geog. ed, grad. sch. ed, 64-65; ASST. PROF. ED. & GEOG, SYRACUSE, 65- U.S.A, 52-54, 1st Lt. Nat. Coun. Geog. Ed.(secy, 66-). Geographic education. Publ: Structure of geography, Soc. Sci. Ed. Consortium, 66; Geography, In: Social studies in the United States, Harcourt, 67; Geography (ed. TV series, WCVE-TV, Richmond, Va, 67). Address: Dept. of Geography, Syracuse University, Syracuse, N.Y. 13210.

GREECHIE, DR. RICHARD JOSEPH, Math, See 11th ed, Suppl. IV to Phys. & Biol. Vols.

GREELEY, DR. ANDREW MORAN, b. Chicago, Ill, Feb. 5, 28. SOCIOLOGY. A.B, St. Mary of the Lake Sem, 50; M.A, Chicago, 61, Ph.D.(sociol), 62; hon. LL.D, St. Josephs's Col.(Ind), 67; Litt. D, St. Mary's Col.(Minn), 67. LECTR. SOCIOL, CHICAGO, 62-; DIR. PROG. HIGHER ED, NAT. OPINION RES. CENTER, 62- Mem, Hazen Cmn. on Student in Higher Ed, 66-67. Sociol. Asn; Soc. Sci. Study Relig. Sociology of religion; adolescence; higher education. Publ: Religion and career, Sheed, 63; co-auth, Education of Catholic Americans, 66 & auth, The changing Catholic college, 67, Aldine. Address: 450 E. 78th St, Chicago, Ill. 60619.

GREEN, DR. ARTHUR M, b. Brooklyn, N.Y, Dec. 9, 29; m. 48; c. 2. PSYCHOLOGY. A.B, Brooklyn Col, 49; A.M, Hofstra Col, 57; Ph.D, Yeshiva, 59. Psychologist, Hebrew Acad. North Queens, 58-60; Baltimore County Bd. Ed, 60-64; SUPVR. PSYCHOL. SERV, PRINCE GEORGE'S COUNTY BD. ED, UPPER MARLBORO, 64- Private practice, 59-; intern, Jewish Chronic Disease Hosp, 59-60; psychologist, Psychol. Guid. Center, 61- Consult. psychologist, Cent. Eval. Clin. Children, Univ. Maryland Hosp, Baltimore, 63- Psychol. Asn. Personality; prejudice; psychodiagnosis; psychotherapy. Publ: Psychological services in Maryland public and non-public schools, J. Sch. Psychol, autumn 66; Problems in learning of school children, Current Med. Digest, 2/68. Address: 5523 Rubin Ave, Baltimore, Md. 21215.

GREEN, DR. BARBARA B(UCKSTEIN), b. New York, N.Y, Dec. 30, 32; m. 56; c. 2. POLITICAL SCIENCE. A.B, Wellesley Col, 54; trustee scholar, 54-55, Ford Found. fel, 55-56; Dutton fel. from Wellesley Col, Harvard, 56-57, univ. fel, 56-58; M.A, Radcliffe Col, 57, Ph.D.(polit. sci), 60. Instr. POLIT. SCI, WELLESLEY COL, 57-61, asst. prof, 61-67, ASSOC. PROF, 67- Fel, Radcliffe Inst, 67-68; assoc, Russian Res. Center, Harvard, 67-68. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Historical development and present problems of Soviet universities; social and philosophic roots of right-wing movements in America; East European government and politics-analytical approaches; interest groups in Communist countries. Publ: Soviet politics and interest groups, Current Hist, 10/66. Address: Dept. of Political Science, Wellesley College, Wellesley, Mass. 02181.

GREEN, PROF. BERT F(RANKLIN), JR, b. Honesdale, Pa, Nov. 5, 27. PSYCHOLOGY. B.A, Yale, 49; Ed. Testing Serv. fel, Princeton, 48-51, M.A, 50, Ph.D.(psychol), 51. Mem. staff, Lincoln Lab, Div. Defense Labs, Mass. Inst. Tech, 51-62; PROF. PSYCHOL, CARNEGIE-MELLON UNIV, 62- Fel, Center Adv. Study Behav. Sci, 65-66. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc. Quantitative methods in psychology; experimental psychology. Publ: Digital computers in research, McGraw, 63; Attitude measurement, Handbook Soc. Psychol; Computer models of cognitive processes, Psychometrika. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

GREEN, DR. CHARLES RAYMOND, b. Chicago, Ill, July 16, 35; m. 58; c. 2. POLITICAL SCIENCE. A.B, Augustana Col.(Ill), 57; univ. fel. & M.A, Illinois, 59, Babcock fel. & Ph.D.(polit. sci), 60. Asst. prof. POLIT. SCI, Oregon State, 60-63, ASSOC. PROF, 63-65; MACALESTER COL, 65- AAAS; Polit. Sci. Asn. Empirical political theory; American political processes; public organizations and administrative behavior. Address: Dept. of Political Science, Macalester College, St. Paul, Minn. 55101.

GREEN, PROF. DAVID M(ARVIN), b. Jackson, Mich, June 7, 32; m. 53; c. 4. PSYCHOLOGY. B.A, Chicago, 52; B.A, Michigan, 54, Nat. Sci. Found. fels, 54-56, M.A, 55, Ph.D.(psychol), 58. Res. assoc, electronic defense group, Michigan, 56-58; asst. prof. PSYCHOL, Mass. Inst. Tech, 58-63; assoc. prof, Pennsylvania, 63-66; PROF, CALIFORNIA, SAN DIEGO, 66- Summer vis. lectr, Mass. Inst. Tech. & mem. tech. staff, Bell Tel. Labs, N.J, 57. Consult, Bolt, Beranek & Newman, Inc, 66- AAAS; Psychol. Asn; Acoustical Soc. Psycho-acoustics. Publ: Co-auth, Signal detection theory and psychophysics, Wiley, 64. Address: Dept. of Psychology, University of California at San Diego, La Jolla, Calif. 92037.

GREEN, DR. DONALD ROSS, b. Holyoke, Mass, Aug. 12, 24; m. 50; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Yale, 48; M.A, California, 54, Ph.D, 58. Teacher, George Sch, Pa, 48-50; statistician, cancer res. inst, sch. med, California, 53-56, assoc. ed. psychol, 57; instr. ed, Emory, 57-58, asst. prof, 58-63, psychol, 62-63, assoc. prof. ed. & psychol, 63-67; SR. RES. PSYCHOLOGIST, CALIF. TEST BUR, 67- U.S.A, 43-45. AAAS; Psychol. Asn; Ed. Res. Asn. Transfer of training in school learning; motivational factors in retention; measurement of teacher competence; instructional processes; computer assisted instruction; concept expression and school learning. Publ: Educational psychology, Prentice-Hall, 64; co-auth, Black belt schools: beyond desegregation, South. Regional Coun, 65; auth, Volunteering and the recall of interrupted tasks, J. Abnorm. & Soc. Psychol, 63. Address: California Test Bureau, Monterey, Calif. 93940.

GREEN, DR. DOROTHY EUNICE, b. Montgomery, Ala, Dec. 18, 17. PSYCHOLOGY. B.S, Ala. Polytech, 37; M.A, Peabody Col, 41; Ph.D.(ed), Chicago, 50. Sr. statistician, accident record bur, Ala. Dept. Pub. Safety, 41-45; chmn. dept. math, Huntingdon Col, 45-48; res. asst, City Col. New York, 50-51; res. psychologist, chief psychomet. sect, human factors opers. res. labs, U.S. Dept. Air Force, 51-54; res. & anal. unit, U.S. Civil Serv. Cmn, 54-62, prog. dir. personnel measurement res. & develop. center, 62-67; CHIEF PROG. RES. SECT. NAT. CLEARINGHOUSE FOR SMOKING & HEALTH, U.S. PUB. HEALTH SERV, 67- Psychol. Asn; Psychomet. Soc. Psychometric methodology; research design; measurement and evaluation. Publ: Group correlation methods; Technique for increasing differential prediction in test batteries. Address: Program Research Section, National Clearinghouse for Smoking & Health, U.S. Public Health Service, 4040 N. Fairfax Dr, Arlington, Va. 22203.

GREEN, PROF. EDWARD, b. New York, N.Y, Feb. 28, 20; m. 46; c. 4. SOCIOLOGY. M.A, Pennsylvania, 50, Ph.D, 59. Instr. SOCIOL, Mt. Holyoke Col, 50-51; from asst. prof. to prof, Beaver Col, 51-62; assoc. prof, South Florida, 62-63; PROF. & CHMN. DEPT, EASTERN MICHIGAN, 63- U.S.M.C, 41-46. Sociol. Asn; Am. Soc. Criminol; Int. Soc. Criminol. Criminology; sociology of law. Publ: Judicial attitudes in sentencing, London, Macmillan, 61; Inter- and intra-racial crime relative to sentencing, J. Criminal Law, Criminol. & Police Sci, 64. Address: Dept. of Criminology, Eastern Michigan University, Ypsilanti, Mich. 48197.

GREEN, PROF. EDWARD J, b. Frankfort, Ind, Apr. 12, 24; m. 50; c. 4. PSYCHOLOGY. A.B, Indiana, 49; fel, Harvard, 51-53, M.A, 52, Ph.D.(exp. psychol), 53. Res. assoc, HumRRO, George Washington, 53-54; instr. psychol, Dartmouth Col, 54-57, asst. prof, 57-60, assoc. prof, med. sch. & col, 60-64; PROF. PSYCHOL. & DIR. INST. ED. TECH, TEACHERS COL, COLUMBIA, 64- U.S.A, 45-46. Psychol. Asn. General experimental psychology; learning theory; programmed instruction; Publ: Learning process and programmed instruction; Concept formation, a problem in human operant conditioning, J. Exp. Psychol; Stimulus variability and operant discrimination in human subjects, Am. J. Psychol. Address: Dept. of Psychology, Teachers College, Columbia University, New York, N.Y. 10027.

GREEN, DR. ELMER E(LLSWORTH), b. La Grande, Ore, Oct. 10, 17; m. 41; c. 4. PSYCHOLOGY, BIOPSYCHOLOGY. B.Physics, Minnesota, 42; California, Los Angeles, 46; Ph.D.(psychol), Chicago, 62. Methods engr, Minneapolis Honeywell Co, Minn, 42-43, tech. rep, 43-45; physicist, U.S. Naval Ord. Test Sta, 47-51, head data reduction br, 51-53, photophys. br, 53-55, assessments div, 55-57; res. assoc. med. psychol, Chicago, 62-64; head biomed. electronics lab, MENNINGER FOUND, 64-66, HEAD PSYCHOPHYSIOL. LAB, 66- Mem. working group data reduction, res. & develop. bd, U.S. Dept. Defense, 52-54, optical systs. working group, inter-range instrumentation group, 54-57, chmn, 56. Res. Soc. Am. Psychophysiological correlates of perception and their characteristics at different levels of awareness; development of training programs for self-regulation of levels of awareness. Publ: Correspondence between Stevens' terminal brightness function and the discriminability law, Science, 138: 1274-1275. Address: Menninger Foundation, Box 829, Topeka, Kans. 66601.

GREEN, DR. GEORGE DAVID, Am. Hist, Econ, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GREEN, DR. GEORGE EARL, b. Redfield, S.Dak, Nov. 26, 28; m. 54; c. 5. POLITICAL SCIENCE. B.S, Nebraska, 52; Nat. Defense Ed. Act fel. & Ph.D. (polit. sci), Colorado, 65. Gen. accountant, 53-60; asst. prof. POLIT. SCI, Gonzaga, 63-67, chmn. dept, 65-67; ASSOC. PROF, MANKATO STATE COL, 67- Fed. grant & consult, East. Wash. State Col, 66-67. U.S.M.C, 46-48; U.S.A.F.R, 52-, Capt. Polit. Sci. Asn; Soc. Pub. Admin. Public law; public organization theory; government regulation of business. Address: Dept. of Political Science, Mankato State College, Mankato, Minn. 56001.

GREEN, DR. GEORGE RICHARD, b. Maryville, Mo, Apr. 14, 36; m. 57; c. 2. ECONOMICS, STATISTICS. B.A, Northwest Mo. State Col, 58; fel, Brookings Inst, 62-63; Ph.D.(econ), Pennsylvania, 65. Instr. econ, Pennsylvania, 59-62; Pittsburgh, 63-65; asst. prof, Maryland, 65-66; ECONOMIST-STATISTICIAN, ECONOMET. RES. GROUP, OFF. BUS. ECON, U.S. DEPT. COMMERCE, 67- Econ. Asn; Economet. Soc; Statist. Asn. Econometric models; computer systems analysis. Address: 902 Nora Dr, Silver Spring, Md. 20904.

GREEN, DR. GERALD W(ARREN), b. Dodge City, Kans, Jan. 20, 25; m. 59. PSYCHOLOGY, GUIDANCE. B.S, Kans. State Teacher Col, 49, M.S, 51; Ed.D.(ed. psychol, guid), Kansas, 61. Rehab. counsr, div. serv. for blind, State of Kansas, 52-56; instr. rehab. & counsr. guid. bur, Kansas, 56-58; asst. regional rep, Off. Voc. Rehab, DEPT. HEALTH, ED. & WELFARE, 58-65, REGIONAL ASST. CMNR, REHAB. SERV. ADMIN, 65- Med.C, 42-45, Sgt. Psychol. Asn; Personnel & Guid. Asn; Soc. Pub. Admin. Educational psychology and guidance rehabilitation. Address: 3015 Steven Dr, Lawrence, Kans. 66044.

GREEN, PROF. H(AROLD) A(LFRED) JOHN, b. Birmingham, Eng, Feb. 13, 23; m. 50; c. 2. ECONOMICS. B.A, Oxford, 47, M.A, 48; Ph.D, Mass. Inst. Tech, 54. Vis. lectr, ECON, Clark, 48-50; instr, Brown, 52-54; asst, Manchester, 54-55; lectr, Univ. Col. N.Staffs, Eng, 55-58; asst. prof, California, 58-59; spec. lectr, TORONTO, 59-60, asst. prof, 60-62, assoc. prof, 62-63, PROF, 63- Simon vis. prof, Manchester, 65-66; summers, Ford Found. regional faculty res. seminar, California, 59, Soc. Sci. Res. Coun. grant-in-aid, 60, Can. Coun. grant-in-aid, 61, 62. Am. Econ. Asn; Can. Econ. Asn; Economet. Soc; Econ. Study Soc; Royal Econ. Soc. Theories of consumers' behavior and economic growth; welfare economics; problems of aggregation in economic analysis; problems of time and uncertainty in monetary models of general equilibrium. Publ: Aggregation in economic analysis, Princeton, 64; Growth, models, capital and stability, Econ. J; Social optimum in the presence of monopoly and taxation, Rev. Econ. Studies. Address: Dept. of Political Economy, University of Toronto, 100 St. George St, Toronto 5, Ont, Can.

GREEN, DR. HARRY A, b. Lebanon, Tenn, Mar. 24, 33; m. 54; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.S, Mid. Tenn. State, 57; M.S, Fla. State, 58; Ph.D.(polit. sci), Colorado, 62. Asst. prof, Mid. Tenn. State, 62-63; res. assoc, inst. govt. res, Fla. State, 63-65; dep. dir. community orgn, div. econ. opportunity, Off. Gov, State of Fla, 65-66; consult, community orgn. for manpower serv, President's Cmt. Manpower, 66; SPEC. ASST. TO ASST. SECY, U.S. DEPT. HOUSING & URBAN DEVELOP, 66- Polit. Sci. Asn; Soc. Pub. Admin; Am. Inst. Urban & Regional Affairs (v. pres, 68). Urban research, especially management, development, special problems of governmental and political fragmentation and housing. Publ: Urban growth in the nation's spaceport, Govt. Res. Bull, 5/64; Bureaucracy and functional representation, 2/65 & Reapportionment in the states: some implications for metropolitan areas, 8/67, Res. Reports in Soc. Sci. Address: 3613 Malibu Circle, Apt. 206, Falls Church, Va. 22041.

GREEN, DR. HOWARD L(EON), b. Newark, N.J, Dec. 21, 22; m. 46; c. 2. GEOGRAPHY. A.B, Clark, 47, A.M, 49; Ph.D, Harvard, 52. Mgr. mkt. res, Stop & Shop, Inc, 53-55, asst. to v.pres, 55-57; mgr. res. & develop, Montgomery Ward & Co, 57-62, corporate res. mgr, 62-63; distribution planning mgr, Ford Motor Co, 63-65; PRES, HOWARD L. GREEN & ASSOCS, INC, 65- Mem. gen. assembly & long range planning cmt, Boston YMCA, 54-57; Boston Econ. Res. Group, 55-57; adv. bd, inst. urban & regional planning, Northeastern, 55-57; metrop. transportation cmt, Greater Boston Chamber Commerce, 56-57; econ. develop. cmt, Ill. State Chamber Commerce, 61-62. U.S.A.A.F, 44-46, Lt. Asn. Am. Geog; Mkt. Asn; Am. Geog. Soc. Marketing and urban geography; marketing research. Publ: Marketing consultants: how to know what you're getting and get what you pay for, Mgt. Rev, 12/63; Investment norms in chain store expansion, Harvard Bus. Rev, 7-8/68; The structure of outlying retail centers, J. Retailing, winter 68. Address: P.O. Box 416, 1591 Woodward Ave, Bloomfield Hills, Mich. 48013.

GREEN, PROF. JAMES L(EROY), b. Centralia, Wash, Nov. 5, 19; m. 50; c. 2. ECONOMIC DEVELOPMENT, INDUSTRIAL RELATIONS. B.A, Washington State, 41; M.A, Minnesota, 48, Ph.D, 50. Instr, Minnesota, 47-49; asst. prof. indust. rel, Southern Methodist, 49-51; consult. econ. & mgt, Griffenhagen & Assoc, Ill, 51-53; private consult, 53-56; econ. & financial adv. to Minister Finance, Columbian Govt, 56-57; prof. ECON. & chmn. dept, grad. sch. bus, Air Force Inst. Tech, 57-60; PROF, GEORGIA, 60- U.S.A.A.F, 41-46, Maj. Econ. Asn; Indust. Rel. Res. Asn; Soc. Personnel Admin; Soc. Pub. Admin. Economic theory and development; public finance; industrial relations; urban place economic development. Publ: Metropolitan economic republics, Univ. Georgia, 11/66; Understanding problems in the Latin American economy, Commercial & Financial Chronicle; A total systems approach to regional economic development, In: The economic development potentials of the Atlantic Coastal Plains region, N.C. State Univ. Address: Dept. of Economics, University of Georgia, Athens, Ga. 30601.

GREEN, JOHN CAWLEY, Eng, Law, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

GREEN, DR. JOHN PARK, b. Chicago, Ill, May 28, 23. POLITICAL SCIENCE. M.A, Chicago, 48, Ph.D.(polit. sci), 53. Instr. POLIT. SCI, Wells Col, 51-52; ASST. PROF, South Dakota, 54-55; La. State, New Orleans, 61-63; HOUSTON, 63- U.S.A, 43-46, Sgt. Political theory and/or philosophy. Address: Dept. of Political Science, University of Houston, Houston, Tex. 77004.

GREEN, PROF. J(OSEPH) G(ERARD), JR, b. Boston, Mass, Oct. 15, 23; m. 51; c. 4. SOCIOLOGY. A.B, Harvard, 45; A.M, Boston, 47; Knights of Columbus fel, Catholic Univ, 51-53. Instr. SOCIOL, Regis Col, 53-55; asst. prof, Dayton, 55-56; Col. St. Rose, 56-57; Villanova, 57-61; assoc. prof, ASSUMPTION COL.(MASS), 61-66; PROF, 66- Address: 19 University Dr, Natick, Mass. 01760.

GREEN, PROF. LESLIE C, b. London, Eng, Nov. 6, 20; m. 45; c. 1. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. LL.B, London, 41, Carnegie Commonwealth fel, 61. Lectr. int. law & rels, London, 46-60; PROF. int. law, Singapore, 60-65; POLIT. SCI, ALBERTA, 65- Secy. & organizing

tutor, London Inst. World Affairs, 47-60; Brit. mem, UNESCO Conf. Int. Obligations of States, 54; Malayasian Del, Int. Cmn. Jurists, 65. Intel.C, Brit. Army, 41-46, Maj. Am. Soc. Int. Law; Int. Law Asn. International law and organization, particularly human rights and position of individual. Publ: Co-auth, Int. law of recognition, 51 & auth, International law thro' the cases, 3rd ed, 68, Stevens, London. Address: Dept. of Political Science, University of Alberta, Edmonton, Alta, Can.

GREEN, LT. COL. NORMAN E(LDON), Sociol, Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

GREEN, DEAN PAUL M(ARTIN), b. East Liverpool, Ohio, Apr. 26, 02; m. 30; c. 1. ECONOMICS, FINANCE. A.B, Miami (Ohio), 26, LL.D, 52; M.S, Illinois, 27, Ph.D.(econ), 33; summer, Harvard, 28. Mem. faculty acct. & finance, Illinois, 26-41; dep. adminstr. in charge acct, Off. Price Admin, 41-47; controller, Atomic Energy Cmn, 47-50; Econ. Coop. Admin, 50-52; Mutual Security Agency, 52; prof. bus. admin. & dean col. commerce & bus. admin, ILLINOIS, URBANA, 52-67, dir. GRAD. SCH. BUS. ADMIN, 56-67, EMER. DIR, 67-, EMER. DEAN COL. COMMERCE & BUS. ADMIN, 67-; DEAN COL. BUS. ADMIN, FLORIDA TECH, 67- Asst. dir, Off. Price Stabilization, 51-52. Am. Econ. Asn; Finance Asn; Am. Acct. Asn; Statist. Asn; Royal Econ. Soc. College administration; management; accountancy. Address: College of Business Administration, Florida Technological University, P.O. Box 25000, Orlando, Fla. 32816.

GREEN, DR. PHILLIP C, b. Chicago, Ill, Mar. 22, 29; m. 57; c. 1. PHYSIOLOGICAL & COMPARATIVE PSYCHOLOGY. B.S, Roosevelt, 50; M.S, Ill. Inst. Tech, 52; Ph.D.(psychol), Wisconsin, Madison, 61. Res. assoc. psychopharmacol. res, addiction res. center, Nat. Inst. Ment. Health Hosp, Lexington, Ky, 59-61; brain lesion res, inst. psychosom. & psychiat. res. & training, Michael Reese Hosp, Chicago, 61-64; ASST. PROF. PSYCHOL, CINCINNATI, 64- Grants, Nat. Insts. Health, 66-68 & Nat. Sci. Found, 68-AAAS; Psychol. Asn. Brain mechanisms and behavior; comparative animal learning and perceptual processes; mammalian development. Publ: Co-auth, Maternal deprivation: its influence on visual exploration in monkeys, Science, 64; auth, Influence of early experience and age on expression of affect in monkeys, J. Genetic Psychol, 65; co-auth, Effects of subcallosal lesions on hypothesis behavior in rats, Psychonomic Sci, 67. Address: Dept. of Psychology, University of Cincinnati, Cincinnati, Ohio 45221.

GREEN, PROF. PHILIP P(ALMER), JR, b. Ft. Benning, Ga, July 24, 22; m. 49; c. 4. PUBLIC LAW, GOVERNMENT. A.B, Princeton, 43; LL.B, Harvard, 49. ASST. DIR, INST. GOVT, NORTH CAROLINA, 49-, PROF. PUB. LAW & GOVT, 57-, res. assoc. prof, 51-55, res. prof, 55-57. Fulbright sr. res. scholar, London Sch. Econ, 63-64. Adv. to subcmt. characteristics of legal tools, Nat. Cmt. Urban Transportation, 54-58. U.S.A, 43-46, Res, 46-, Lt. Col. Bar Asn; Inst. Planners. Legal and factual research concerning city, county, regional and state planning agencies, laws, problems and administration. Publ: Cases and materials on planning law and administration, Inst. Govt, 62. Address: Institute of Government, University of North Carolina, Chapel Hill, N.C. 27514.

GREEN, DR. RALPH TILLMAN, b. Paxton, Tex, Apr. 10, 22; m. 45; c. 3. ECONOMICS, FINANCE. B.A, Texas A&M, 42, M.S, 47; Ph.D, Duke, 54. Financial economist, Fed. Reserve Bank of Dallas, Tex, 49-55; prof. econ. & chmn. dept, Baylor, 55-56; exec. dir, State Cmn. Higher Ed, Tex, 56-62; V.PRES, FED. RESERVE BANK OF DALLAS, 62- Mem, Fed. Reserve Syst. Res. Adv. Cmt. & Cmt. Banking & Credit Policy, 62- U.S.N, 42-46, Lt. Econ. Asn; Finance Asn; Asn. Bus. Econ. Treasury finance; central banking; money markets; commercial banking. Publ: Federal debt, Monthly Bus. Rev; Evaluating adequacy of bank capital: analysis of the problem, J. Finance; Public higher education in Texas, Pub. Affairs Comment. Address: 4017 Northview Lane, Dallas, Tex. 75229.

GREEN, DR. REGINALD HERBOLD, b. Walla Walla, Wash, May 4, 35. ECONOMICS. A.B, Whitman Col, 55; A.M, Harvard, 57, fel, 59-60, Ph.D, 61. Proj. dir, U.S. Nat. Students Asn, 58-59; Ford Found. fel, Africa, 60-61; asst. prof. econ. & assoc, center quant. study econ. struct. & change, Yale, 61-65; res. fel. econ, East African Inst. Soc. Res, Makerere Univ. Col, Uganda, 65-66; FORD FOUND. SR. ECON. ADV, TREAS, UNITED REPUB. TANZANIA, 66- Vis. lectr, Univ. Ghana, 63-65, external examiner, 67-; mem. faculty, Carnegie Inst. Diplomacy, E. Africa, 65-66; East African Staff Col, 65. Consult, Uganda Ministry Planning, 65-66; Tanzania Treas, 65-66. Mem. young adult coun, Nat. Soc. Welfare Assembly, 56-63; White House Conf. Youth & Children, 60; U.S. gen. cmt, World Univ. Serv, 61-63, world assembly, 62. Am. Econ. Asn; fel. African Studies Asn; Asn. Asian Studies; Econ. Soc. Ghana; fel. Econ. Soc. Tanzania. African studies; economic integration as a tool of development; economics of education; community development; structural change and economic development; development strategy, policy and planning; international economic relations. Publ: Co-auth, Unity or poverty? the economics of Pan-Africanism, Penguin, 68; auth, Four African development plans: Ghana, Kenya, Nigeria, Tanzania, J. Mod. African Studies, 65; Wage levels, employment, productivity, consumption, In: Education, employment, rural development, E. African Pub. House, Nairobi, Kenya, 67. Address: Treasury Box 9111, Dar es Salaam, Tanzania.

GREEN, PROF. R(OBERT) EARL, b. Mayfield, Ky, Jan. 18, 29; m. 51. BUSINESS MANAGEMENT, ECONOMICS. M.B.A, Indiana, 51, D.B.A, 62. Asst. prof. indust. mgt, GA. INST. TECH, 57-64, assoc. prof. MGT, 64-66, PROF. INST. & ASSOC. DIR, SCH. INDUST. MGT, 66- U.S.N, 53-56, Res, 56-, Lt. Econ. Asn; Inst. Mgt. Sci. Economic and organizational problems of production management. Address: School of Industrial Management, Georgia Institute of Technology, Atlanta, Ga. 30332.

GREEN, DR. ROGER C(URTIS), b. Ridgewood, N.J, Mar. 15, 32; m. 58; c. 2. ANTHROPOLOGY. B.A, New Mexico, 54, B.Sc, 55; Thaw fel, Peabody Mus. Archaeol. & Ethnol, 56-57; Fulbright scholar, Auckland, 58 & 59; univ. fel, Harvard, 58, Ph.D.(anthrop), 64. Res. assoc. anthrop, Am. Mus. Natural Hist, 59-61; sr. lectr. prehist, Auckland, 61-66, ASSOC. PROF, 66-67, ANTHROP, HAWAII, 67-, ANTHROPOLOGIST, BERNICE P. BISHOP MUS, 67- Vis. assoc, Bernice P. Bishop Mus, 65, assoc. prof, Hawaii, 65. Mem. coun, Int. Union Prehistoric & Protohistoric Sci, 66- Fel. Anthrop. Asn; hon. mem. N.Z. Archaeol. Asn. (pres, 63-64); Polynesian Soc. Southwestern archaeology; Polynesian prehistory, ethnohistory, ethnology and linguistics; Pacific prehistory and archaeology; archaeological method and theory. Publ: A review of the prehistoric sequence in the Auckland Province, N.Z. Archaeol. Monogr, 2, 63; A suggested revision of the Fijian sequence, J. Polynesian Soc, Vol. 72, 63; Excavations on the Island of Mooréa, French Polynesia, Anthrop. Papers 51, Am. Mus. Natural Hist, 67. Address: Dept. of Anthropology, Bernice P. Bishop Museum, Honolulu, Hawaii 96819.

GREEN, PROF. RUSSEL F(RANK), b. Alexandria, Nebr, Aug. 5, 21; m. 47; c. 2. PSYCHOLOGY. B.A, Southern California, 47, M.A, 49, Ph.D, 51. Res. assoc. psychol, Rochester, 51-55, asst. prof, 55-58, assoc. prof, 58-68; RES. CONSULT, BD. COOP. ED. SERV, MONROE COUNTY, N.Y, 65- Vis. prof, Puerto Rico, 63-64; part time assoc. prof, Rochester, 68- Res. consult, Rush-Henrietta Cent. Sch. Dist, 64- U.S.A, 42-46. Psychol. Asn. Factors affecting intelligence; age-intelligence relationship; evaluation of schools and school systems; individual differences; experimental design, measurement and applied statistical methods. Publ: Factor analytic study of reasoning abilities, Psychometrika; co-auth, Changes in intellect with age: factorial analysis of Wechsler-Bellevue scores, J. Gen. Psychol, 64; On the bipolarity of semantic space, Psychol. Monogr, 65. Address: 83 Church Hill Rd, Henrietta, N.Y. 14467.

GREEN, DR. STANFORD, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

GREEN, PROF. WILLIAM E(NGLISH), b. Brooksmith, Tex, June 19, 14; m. 51. INDUSTRIAL MANAGEMENT. B.B.A, Tex. Tech. Col, 47; Ph.D.(bus. orgn), Ohio State, 54. Asst. prof. mgt. & finance, Omaha, 53-55; prof. indust. mgt, Mississippi, 55-65; vis. prof. bus. admin, Missouri, 65-66; PROF. MGT. & HEAD DEPT, EASTERN ILLINOIS, 66- Summer faculty res. fel, Cornell, 60. Mgt. consult, State Civil Serv. Cmn, Ohio, 52-53; U.S.N, 41-45. Soc. Adv. Mgt; Acad. Mgt. Industrial psychology; corporation finance; management of technology. Publ: Co-auth, Management counseling of small manufacturers, Univ. Mississippi, 63; auth, Studies in industrial management; Purchasing and the management of technology, J. Purchasing, 67. Address: 2523 S. Fifth St. Charleston. Ill. 61920.

GREEN, DR. ZELMA BELL, b. Faith, Ark, Nov. 15, 15; m. 52; c. 1. PSYCHOLOGY, EDUCATION. B.A, Harding Col, 38; M.A, Columbia, 47; Ph.D. (psychol, ed), Denver, 53. Teacher, high sch, Ark, 38-43; dean women, Harding Col, 47-51; assoc. prof. psychol, Ark. Exp. Teacher Ed, 54-56; dir. spec. ed, McNeese State Col, 56-58; asst. prof. psychol, Northeast La. State Col, 61-62; Cent. State Col, 63-64; ASSOC. PROF. SOC. SCI, LITTLE ROCK, 65- U.S.N.R. Psychol. Asn. Christian male-female relationships, Baker, 67. Address: 3 Belmont Dr. Little Rock, Ark. 72204.

GREENACRE, DR. PHYLLIS, Psychoanal, see 11th ed, Phys. & Biol. Vols.

GREENBAUM, DR. H(ARRY), Econ, see 10th ed, Soc. & Behav. Vols.

GREENBAUM, DEAN JOSEPH J(ULIUS), b. New York, N.Y, Feb. 24, 24; m. 58; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 46; Ph.D.(psychol), California, 50. Asst. prof. PSYCHOL, Wesleyan, 50-57; assoc. prof, GRAD. FACULTY, NEW SCH. SOC. RES, 57-61, PROF, 62-, DEAN, 66- Vis. lectr, grad. sch, Bryn Mawr Col, 60. Res. consult, Woods Sch. Proj. Ment. Retardation, 58- U.S.A, 42-45. AAAS; Psychol. Asn. Learning and thinking; social psychology; motivation theory. Publ: Co-auth, Younger American scholar. Address: New School for Social Research Graduate Faculty, 66 W. 12th St, New York, N.Y. 10011.

GREENBAUM, DR. MARVIN, b. New York, N.Y, Oct. 3, 27; m. 54; c. 2. CLINICAL PSYCHOLOGY. A.B, Syracuse, 49, M.A, 51, Ph.D.(clin. psychol), 56. Intern PSYCHOL, Strong Mem. Hosp, Rochester, N.Y, 52-53; asst. prof, med. sch, OREGON, 55-61, res. assoc, 61-62, ASSOC. PROF, 66- Dir. res. & chief psychologist, Tualatin Valley Guid. Clin, Ore, 61-67; private practice, 66- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 63. U.S.N, 45-46. Psychol. Asn; Orthopsychiat. Asn. Effects of multiple stress; psychological assessment; how institutions change. Publ: Co-auth, Effects of multiple stress on behavior, U.S. Pub. Health Serv, 64; auth, Joint sibling interview as a diagnostic procedure, J. Child Psychol. & Psychiat, 65; Beginning of hope, Nat. Conf. Cath. Charities, 67. Address: Dept. of Psychology, University of Oregon, Eugene, Ore. 97403.

GREENBAUM, DR. NATHAN, b. Czech, Mar. 23, 23; U.S. citizen. PSYCHOLOGY. B.A, Brooklyn Col, 43; M.A, Columbia, 45; Ph.D, Kansas, 51. CHIEF PSYCHOLOGIST, MENORAH MED. CENTER, 51- Lectr, Univ. Kansas City, 51-57; instr, Kansas, 51-; Kansas City Art Inst, 58- Private practice, 56- Dipl. Am. Bd. Exam. Prfnl. Psychol, 55. U.S.A, 43. Psychol. Asn; Acad. Psychother. Clinical psychology; psychoanalysis; psychodiagnosis and psychotherapy; psychology and the law. Address: 751 E. 63rd St, Kansas City, Mo. 64110.

GREENBAUM, DR. RICHARD S(IMON), b. Brooklyn, N.Y, Oct. 26, 23; m. 55. PSYCHOLOGY. B.A, Miami (Fla), 47, M.S, 48; Ph.D.(psychol), Florida, 54. Chief psychologist, Dade County Child Guid. Clin, 55-60; private practice, 60- U.S.A, 42-46. Psychol. Asn; Orthopsychiat. Asn. Needs of children in contested custody; diagnosis and treatment of pre-adolescent acting out. Publ: Use of word association test as aid in interpreting Bender-Gestalt, J. Proj. Tech; Effect of certain maternal attitudes on the behavior of rejected children; Treatment of school phobia: theory and practice, Am. J. Psychother, 10/64. Address: 1175 N.E. 125th St, North Miami, Fla. 33161.

GREENBERG, DR. ALBERT, b. Rumania, Feb. 16, 21; nat; m. 47; c. 2. CLINICAL PSYCHOLOGY. Ph.D.(clin. psychol), Columbia, 53. Clin. psychol. trainee, Vet. Admin, 49-54, clin. psychologist, Brooklyn Vet. Admin. Hosp, 54-57; CLIN. PSYCHOLOGIST, 56- Psychotherapist, Bleuler Psychother. Group, 56-58; psychother. supvr, Bronx Independent Consult. Center, 63-; clin. dir, New Rochelle Center Psychol. Serv. & Ed, 66- U.S.A, 42-46. Psychol. Asn. Psychoanalytic psychotherapy; personality development. Address: 198-01C 67th Ave, Flushing, N.Y. 11365.

GREENBERG, DR. ARTHUR L, b. New York, N.Y, Jan. 2, 29; m. 53; c. 2. PSYCHOLOGY. A.B, N.Y. Univ, 49; A.M, Duke, 51; Ph.D, Pa. State, 53. Res. assoc, Southwestern at Memphis, 53; res. dir, Sidney Hollander Assocs, 55-57; dir. mkt. res, Charles Antell, Inc, 57-58; Gunther Brewing Co, 58-60; v.pres, Nowland & Co, Conn, 60, sr. v.pres, 60-63; PRES, N.P.D.C. Res, N.Y, 63-65; MKT. SOLUTIONS, INC, 65- Lectr, Baltimore, 55-60. U.S.A, 53-55, Lt. Psychol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Marketing and opinion research; application of psychological knowledge to business problems. Publ: Influence of massed and distributed practice on the formation of mental set; Influence of strength of hunger on the acquisition, retention and transfer of a maze habit; Respondent ego-involvement in large scale surveys. Address: 60 Larkspur Rd, Stamford, Conn. 06903.

GREENBERG, PROF. B(ERNARD) G(EORGE), Biostatist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GREENBERG, DR. BRADLEY S(ANDER), b. Toledo, Ohio, Aug. 3, 34; m. 59; c. 1. MASS COMMUNICATION. B.S, Bowling Green State, 56; M.S, Wisconsin 57, Ph.D, 61. Lectr. journalism & fel. mass communications, Wisconsin, 60-61; res. assoc. mass communication, Stanford, 61-64; asst. prof. COMMUNICATION, MICH. STATE, 64-66, ASSOC. PROF, 66- U.S.A, 57, res, 57-, Capt. Asn. Ed. Journalism. Process and effects of mass communications. Publ: Co-auth, The Kennedy assassination and the American public: communication in crisis, Stanford, 66; co-auth, Mass communications, In: Annual Review of Psychology, 68. Address: Dept. of Communication, Michigan State University, 511 S. Kedzie, East Lansing, Mich. 48823.

GREENBERG, DR. EDWARD, b. Jersey City, N.J, June 22, 36; m. 59; c. 2. ECONOMICS. B.S, N.Y. Univ, 57; fel, Wisconsin, Madison, 58-59, Nat. Sci. Found. fel. & M.S, 59, Ph.D.(econ), 61. Asst. statist, Wisconsin, Madison, 57-58, acting instr. econ. & statist, 59-60, res. asst, 60, proj. asst, 60-61, acting instr, econ. prin, 61, instr, 61-63; asst. prof. ECON, WASHINGTON (ST. LOUIS), 63-65, ASSOC. PROF, 65- Ford Found. faculty fel, 65-66. Consult, Rand Corp, 67- Econ. Asn; Statist. Asn; Econometr. Soc. Economic theory; econometrics; economics of communication and national defense. Publ: A stock-adjustment investment model, Econometrica, 64; Employment impacts of defense expenditures and obligations, Rev. Econ. & Statist, 66; Wire television and the Federal Communication Commission's second report and order on CATV, J. Law & Econ, 67. Address: Dept. of Economics, Washington University, St. Louis, Mo. 63130.

GREENBERG, DR. GORDON Z, b. Rochester, Minn, Sept. 11, 30; m. 54; c. 1. EXPERIMENTAL PSYCHOLOGY, PSYCHOACOUSTICS. B.S, Michigan, 57; Ph.D.(psychol), Indiana, 62. Nat. Insts. Health fel. exp. psychol, Indiana, 61-63; ASST. PROF. PSYCHOL, Rutgers, 63-64, ILLINOIS, URBANA, 64- U.S.A.F, 54-56, 1st Lt. AAAS; Acoustical Soc. Am; Psychonomic Soc. Human audition; auditory perception. Address: 713 W. Indiana Ave, Urbana, Ill. 61801.

GREENBERG, DR. HAROLD A(BRAHAM), b. Philadelphia, Pa, May 6, 21; m. 50; c. 4. PSYCHIATRY. A.B, Temple, 42, M.D, 45; Wash. Psychoanal. Inst, 56-68. Intern, Fordham Hosp, N.Y, 45-46; res. psychiat, St. Elizabeths Hosp, Wash, D.C, 48-50; Sheppard Pratt Hosp, Md, 50-51, res. fel, U.S. Pub. Health Serv, 51-52, chief serv, 52-55; res. psychiatrist, Nat. Insts. Health, 55-64, CHIEF CLIN. CARE, DIV. CLIN. BEHAV. & BIOL. RES, NAT. INST. MENT. HEALTH, 64- Asst. clin. prof, George Washington, 67- Dipl, Am. Bd. Psychiat. & Neurol, 53. Med.C, 46-48, Capt. AAAS; assoc. Am. Med. Asn; fel. Psychiat. Asn; Group Adv. Psychiat. Personality development; psychoanalysis; clinical administration. Publ: Rehabilitation in a research hospital, Psychiat. Quart, 1/67; Adverse behavior in a psychiatric research setting, Comprehensive Psychiat, 4/67. Address: Room 3N234, Clinical Center, National Institutes of Health, Bethesda, Md. 20014.

GREENBERG, DR. HAROLD ISRAEL, b. New York, N.Y, May 15, 33; m. 56; c. 2. SOCIOLOGY. B.A, Yeshiva, 55, M.S, 58; Ed.D.(ed. sociol), Columbia, 65. Prog. dir, Jewish Community Center Jersey City, N.J, 59-62; field consult, New York City Youth Bd, 62-65; res. lectr. ed. sociol, off. res. & eval. div. teacher ed, City Univ. New York, 65; ASST. PROF. SOCIOL, BROOKLYN CENTER, LONG ISLAND UNIV, 65-, res. grant, 67. Ed, Jewish Soc. Work Forum, 64- Sociol. Asn. Minority group relations as related to education; cultural and social influences on creative thinking. Publ: Minority status and literacy, In: The urban R's, Praeger, 67; Creativity, culture and the synagogue school, Jewish Ed, spring 67. Address: 1150 E. 12th St, Brooklyn, N.Y. 11230.

GREENBERG, PROF. JOSEPH H(AROLD), b. Brooklyn, N.Y, May 28, 15; m. 40. ANTHROPOLOGY, LINGUISTICS. A.B, Columbia, 36; Ph.D.(anthrop), Northwestern, 40. Soc. Sci. Res. Coun. fel, 36-37, field fel, Nigeria, 38-39, demobilization award, 45-46; instr. ANTHROP, Minnesota, 46-47, asst. prof, 47-48; Columbia, 48-52, assoc. prof, 52-56, PROF, 56-62; STANFORD, 62- Ford Found. faculty res. grant, 52, grant-in-aid, 57-62; Guggenheim award, Nigeria, 54-55; vis. prof, ling. inst, Univ. Michigan, summer 57; fel, Center Adv. Study Behav. Sci, 58-59; vis. prof. psycholing. res, Minnesota, 60; participant, Nat. Sci. Found. Summer Inst. Teaching Anthrop, Univ. Colorado, 61. Adv. ed, Am. Anthropologist, 52-54; assoc. ed, J. African Lang, 62- Mem, Ling. Circle New York & co-ed, Word, 50-54; mem. cmt. ling. & psychol, Soc. Sci. Res. Coun, 53-61, chmn, 60-61; mem. panel anthrop. & philos. & hist. sci, Nat. Sci. Found, 59-61; dir, W.African Lang. Surv, 59-; mem. cmt. lang. & ling, African Studies Asn, 59- Haile Sellassie, I award for African res, 67. U.S.A, 40-45. Nat. Acad. Sci; fel. Anthrop. Asn; Ling. Soc. Am; African Studies Asn.(v.pres, 63-); Int. African Inst; W.African Ling. Soc.(pres, 66-). Classification of African languages; ethnology of Africa. Publ: Ed, Universals of language, M.I.T. Press, 63; auth, Language universals, Mouton, 66; Influence of Islam on a Sudanese religion. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

GREENBERG, LEON, b. New York, N.Y, July 1, 13; m. 38; c. 2. STATISTICS, ECONOMICS. B.S, City Col. New York, 38; Michigan, 40; N.Y. Univ, 46-47. Statistician, State Div. Employ, N.Y, 40-41; War Manpower Cmn, 42-44; statistician & economist, BUR. LABOR STATIST, U.S. DEPT. LABOR, 46-54, chief. div. prod. & tech. develop, 54-61, asst. comnr, 61-66, CHIEF STATISTICIAN, 66- U.S.N, 44-46. Fel. AAAS; fel. Statist. Asn; Econ. Asn. Productivity measurement and analysis; sampling manpower and cost analysis. Publ: Data available for the measurement of output per man-hour, Studies Income & Wealth; Unit labor costs in the steel industry, In: Steel prices unit costs, profits and competition, Joint Econ. Cmt, U.S. Senate, 63; Technological change, productivity and employment, In: The requirements of automated jobs, Orgn. Econ. Coop. & Develop, 65. Address: 1821 Sanford Rd, Silver Spring, Md. 20902.

GREENBERG, DR. MARSHALL G(ARY), b. Detroit, Mich, June 29, 35; m. 60; c. 2. MATHEMATICAL PSYCHOLOGY. B.A, Haverford Col, 56; M.S, Michigan, 59, U.S. Pub. Health Serv. fel, 59-60, Ph.D.(psychol), 62. Asst. prof. psychol, Minnesota, 61-65; sect. head psychomet, PROCTER & GAMBLE CO, 65-68, MGR. PRFNL. SERV. DEPT, 68- Adj. assoc. prof, Cincinnati, 66- AAAS; Psychomet. Soc; Psychol. Asn; Inst. Mgt. Sci; Statist. Asn. Marketing models; mathematical models for scaling and measurement; choice behavior; statistics; decision theory. Publ: A method of successive cumulations for the scaling of pair comparison preference judgments, Psychometrika, 30: 441-447; A modification of Thurstone's law of comparative judgment to accomodate a judgment category of equal or no difference, Psychol. Bull, 64: 108-112; co-auth, Effects of reinforcement history upon risk-taking behavior, J. Exp. Psychol, 71: 587-592. Address: Procter & Gamble Co, Industrial Engineering Division, P.O. Box 599, Cincinnati, Ohio 45201.

GREENBERG, DR. MEYER, b. New York, N.Y, Jan. 11, 14; m. 41; c. 4. SOCIOLOGY. Ph.D.(sociol), Maryland, 56. Instr. FOR. LANG, MARYLAND, 46-62, ASST. PROF, 62-, DIR. B'NAI B'RITH HILLEL FOUND, 46-, DIR. HEBREW PROG, 68- Sociol. Asn. Minority groups; sociology of religion. Publ: Jewish student at Yale, his attitude toward Judaism, Yivo Annual, Jewish Soc. Sci; Reproduction rate of the families of the Jewish students at the University of Maryland & Social characteristics of the Jewish students at the University of Maryland, Jewish Soc. Studies. Address: University of Maryland, College Park, Md. 20742.

GREENBERG, PROF. MILTON, b. Brooklyn, N.Y, Feb. 20, 27; m. 48; c. 2. POLITICAL SCIENCE. B.A, Brooklyn Col, 49; M.A, Wisconsin, 50, univ. scholar, 50-51, Ph.D.(polit. sci), 55. Asst, Wisconsin, 51-52; instr. & res. assoc, Tennessee, 52-55; asst. prof. POLIT. SCI, WESTERN MICHIGAN, 55-59, assoc. prof, 59-64, PROF, 64-, CHMN. DEPT, 65- Summers, Soc. Sci. Res. Coun. fel, 58, 61. Consult, Citizens for Mich, 60. U.S.A, 45-46. Polit. Sci. Asn. Constitutional law; state and local government; public administration. Publ: Co-auth, The American political dictionary, Holt, 62, 2nd ed, 67; contrib, Collier's Encyclopedia Yearbook; auth, Loyalty oaths: an appraisal of the legal issues, J. Polit. Address: Dept. of Political Science, Western Michigan University, Kalamazoo, Mich. 49001.

GREENBERGER, DR. ELLEN, b. New York, N.Y, Nov. 19, 35; m. 59; c. 2. CLINICAL PSYCHOLOGY. B.A, Vassar Col, 56; M.A, Radcliffe Col, 59, Ph.D.(clin. psychol), 61. U.S. Pub. Health Serv. fel. clin. psychol, Judge Baker Guid. Center, 61-62; instr. psychol, Wellesley Col, 62-64, asst. prof, 64-67; SR. RES. SCIENTIST, CENTER STUDY SOC. ORGN. SCHS. & RES. ASSOC, DEPT. SOC. RELS, HOPKINS, 67-, Off. Ed. grant, 67-68. Psychol. Asn. Clinical psychology; personality; motivation. Publ: Fantasies of women confronting death, J. Consult. Psychol, 65; Flirting with death; fantasies of a critically ill woman, J. Proj. Tech. & Personality Assessment, 66; co-auth, Relationship of picture structure to achievement motivation in college women, J. Personality & Soc. Psychol, 12/67. Address: Box 329, Padonia Rd, Cockeysville, Md. 21030.

GREENBERGER, PROF. MARTIN, Appl. Math, see 11th ed, Phys. & Biol. Vols. & Suppl. II & IV.

GREENBLATT, DR. BERNARD, b. Atlantic City, N.J, May 5, 21; m. 43; c. 5. PSYCHOLOGY. B.A, Missouri, 42; D.M.D, Oregon, 46, M.A, 62, Ph.D. (psychol), 63. Dentist, 47-54; exec. dir, Marriage counseling Serv, 56-59; ASSOC. PROF. SOC. SERV. & COORDINATOR HELPING SERV. PROG, NEVADA SOUTHERN, 67- Fel, Postgrad. Center Ment. Health, 62-65; Nat. Inst. Ment. Health fel, 63-64. Psychoanalyst, 64- U.S.A, 42-44. Psychol. Asn. Social services; measurement of self-concept; therapeutic applications of hypnosis. Address: Dept. of Social Services, Nevada Southern University, Las Vegas, Nev. 89109.

GREENBLATT, DR. MILTON, Psychiat, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

GREENE, DR. CHARLES H, b. Roswell, N.M, Nov. 23, 32; m. 54; c. 2. AGRICULTURAL ECONOMICS. B.A, New Mexico State, 54, M.S, 58; Ph.D.(agr. econ), Oregon State, 63. Jr. agr. economist, Oregon State, 58-62; agr. economist, mkt. econ. div, econ. res. serv, U.S. Dept. Agr, 62-63; exten. specialist livestock mkt, NEW MEXICO STATE, 63-65, ASST. PROF. MKT. RES, 65- U.S.A, 54-56. Agr. Econ. Asn. Economic analyses of seed marketing and processing, including cost and efficiency studies; marketing of agricultural products, especially livestock; agricultural price analysis and statistics. Publ: Costs and efficiency in the operation of Oregon seed processing warehouses, Oregon State, Univ, 64; Marketing practices and problems of pesticide dealers, 67 & co-auth, The livestock slaughtering industry in New Mexico, 68, New Mexico State Univ. Address: Dept. of Agricultural Economics, New Mexico State University, Las Cruces, N.Mex. 88001.

GREENE, DR. DAVID LEE, b. Denver, Colo, Aug, 23, 38; m. 62. CULTURAL & PHYSICAL ANTHROPOLOGY. B.A, Colorado, 60, M.A, 62, Ph.D.(anthrop), 65. Asst. prof. anthrop, State Univ. N.Y. Buffalo, 64-65; Wyoming, 65-67, head dept, 66-67; RES. GRANT, COLORADO, 68- Summer faculty fel, Wyoming, 66. Fel. Asn. Anthrop; Asn. Phys. Anthrop. Human and primate evolution; morphology and genetics of the dentition; human population genetics; comparative odontology. Publ: Genetics, dentition and taxonomy, Univ. Wyoming, 67; Dentition of Meroitic, x-group and Christian populations from Wadi Halfa, Sudan, Univ. Utah, 67; co-auth, Dentition of a

Mesolithnic population from Wadi Halfa, Sudan, Am. J. Phys. Anthrop, 67. Address: Dept. of Anthropology, University of Colorado, Boulder, Colo. 80302.

GREENE, DR. EDWARD B(ARROWS), b. Andover, Mass, Sept. 25, 95; m. 26; c. 5. PSYCHOLOGY. B.A, Amherst Col, 18; fel, N.Y. Sch. Soc. Work, 19-21; A.M, Columbia, 22, Ph.D.(psychol), 28. Instr. psychol, Wesleyan, 25-26; Michigan, 27-35, asst. prof, 35-41; supvr, War Manpower Cmn, 42-44, 45; U.S. Employ. Serv, 45-48; prof, sch. bus. admin, Wayne, 48-51; supvr. personnel res, Chrysler Corp, 51-61; CONSULT. PSYCHOLOGIST, 61- Soc. Sci. Res. Coun. fel, 30-31. U.S.A, 17-19, Lt. Fel. Psychol. Asn. Analysis of factors in selection of employees; automotive industry; retention of information. Publ: Measurement of human behavior. Address: Fairhope, Ala. 36532.

GREENE, PROF. FRED, b. New York, N.Y, Jan. 12, 23; m. 47, 59; c. 4. INTERNATIONAL RELATIONS. B.A, City Col. New York, 42; Sterling Jr. fel. & M.A, Yale, 48, Ph.D.(int. rels), 50. From instr. to PROF. POLIT. SCI, WILLIAMS COL, 49- CHMN. DEPT, 68- Soc. Sci. Res. Coun. grant, 56-57; mem. faculty, Nat. War Col, 57-58; dir. off. res. E.Asian & Pac. affairs, Dept. State, 66-68, consult, 61. U.S.A, 42-46. Polit. Sci. Asn. Modern Far Eastern politics; foreign policy and diplomacy of United States; political and economic development. Publ: Far East, a political study, Holt, 57; Dynamics of International relations, Holt, 64; U.S. policy and the security of Asia, McGraw, 68. Address: Dept. of Political Science, Williams College, Williamstown, Mass. 01267.

GREENE, DR. HELEN F(INCH), b. Schenectady, N.Y, Oct. 3, 20; m. 55; c. 2. CHILD PSYCHOLOGY. B.A, Elmira Col, 42; M.A, Columbia, 43; Ph.D. (child develop), Fla. State, 54. Asst. home & family life, Fla. State, 52-54, assoc. prof. child develop, 54-60; PSYCHOLOGIST, COVENTRY SCH DEPT, 60- Role concepts; pre-school child; pre-adolescence. Publ: Young childrens concepts of parent roles, J. Home Econ; co-auth, Agreement of family member conceptions of good parent and child roles, Soc. Forces, 5/58. Address: 150 Juniper Dr, North Kingstown, R.I. 02852.

GREENE, PROF. JAMES E(DWARD), b. Donaldson, Ark, Aug. 14, 00; m. 27; c. 4. PSYCHOLOGY. A.B, Henderson-Brown Col, 22; M.A, Vanderbilt, 24; Soc. Sci. Res. Coun. fel, Chicago, 30-31; Ph.D.(psychol), George Peabody Col, 31. Instr. psychol, Logan Col, 22-23; psychologist, Tenn. Indust. Sch, 26-27; assoc. prof. psychol, GEORGIA, 27-37, PROF. ED, 37-, CHMN. DIV. GRAD. STUDIES, COL. ED, 50- Collab, child develop. center, Am. Coun. Ed, 40-41; regional ed. specialist, Off. Price Admin, 42-43; res. specialist, Ga. Develop. Bd, 44-45; dir. vet. guid. center, Georgia, 45-46; dep, adv. staff, U.S. Dept. Air Force, 46-47. Dipl, Am. Bd. Exam. Prfnl. Psychol; distinguished prof, Georgia Alumni Found, 67. Fel. Psychol. Asn; Ed. Res. Asn. Learning and adjustment; psychopathology; evaluation; education. Publ: Reliability of rational learning tests; Motivation of a murder; Evaluation procedures for the improvement of instruction. Address: College of Education, University of Georgia, Athens, Ga. 30601.

GREENE, PROF. JAMES H, b. Elmwood, Nebr, Mar. 12, 15; m. 43; c. 2. INDUSTRIAL ENGINEERING. B.S, Iowa, 47, M.S, 48, Found. Econ. Ed. fel, 49, Ph.D.(indust. eng), 57. Asst. to prod. engr, H.M. Harper Co, 41-42; PROF. INDUST. ENG, PURDUE, 48- Fulbright lectr, Finland Inst. Tech, 60-61. Spec. consult, European Prod. Agency, 61. Mem, Int. Univ. Contact Mgt. Ed. U.S.A, 42-46. Soc. Eng. Ed; Inst. Indust. Eng; Soc. Tool & Mfg. Eng. Systems and control; human engineering; development of a force platform; industrial economics; operations research. Publ: Production control-systems and decision, Irwin, 65; Operations planning and control, Irwin, 67. Address: Dept. of Industrial Engineering, Purdue University, West Lafayette, Ind. 47907.

GREENE, JAMES R, b. Chicago, Ill, Sept. 5, 21; m. 43; c. 4. ECONOMICS. A.B, Occidental Col, 43; M.B.A, Stanford, 48. Instr. econ, Stanford, 48-50; third secy, for. serv, U.S. Govt, 50-55; SR. V.PRES. IN CHARGE OF LATIN AM, INT. DIV, MFRS. HANOVER TRUST CO, 55- Econ. Asn. Latin American economic development. Address: Foreign Dept, Manufacturers Hanover Trust Co, New York, N.Y. 10015.

GREENE, PROF. JOEL E, b. St. Paul, Minn, Mar. 8, 23; m. 48; c. 3. PSYCHOLOGY. A.B, Denver, 45, M.A, 47; Ph.D, Colorado, 52. Instr. PSYCHOL, Denver, 47-50, asst. prof, 52-57, assoc. prof, 57-59; NEW MEXICO HIGHLANDS, 59-66, PROF, 66- U.S.A.A.F, 43. Psychol. Asn. Animal learning theory; tests and measurements. Publ: Magnitude of reward and acquisition of black-white discrimination habit, J. Exp. Psychol; co-auth, Investigation of the effects of reward and punishment on visual perception, J. Psychol; Intercorrelational and reliability criteria for item selection. Address: Dept. of Psychology, New Mexico Highlands University, Las Vegas, N.Mex. 87701.

GREENE. DR. KATHARINE B, b. Laramie, Wyo, Apr. 18, 97; m. 26; c. 5. PSYCHOLOGY. B.S, Pennsylvania, 16; A.B, Vassar Col, 17; M.A, Columbia, 19, Ph.D, 23. State psychologist, Minn, 19-20; res. assoc, Iowa, 25-26; asst. prof. ed. psychol, Michigan, 27-36, lectr. ed, 37-52; marriage counsr, circuit court, Washtenaw Co, Mich, 52-53; Wayne County Court House, 53-62; PSYCHOLOGIST, 62- Assoc. prof, Ohio State, 37; dir. Sherwood Sch, Bloomfield Hills, 40-47. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Res. Soc. Child Develop. Publ: Effect of specialized training on results of general intelligence. Address: 360 Satsuma St, Fairhope, Ala. 36532.

GREENE, PROF. LEE S(EIFERT), b. Esbon, Kans, May 31, 05; m. 32; c. 2. POLITICAL SCIENCE. B.M, Kansas, 27, A.B, 30; German-Am. Exchange fel, Leipzig, 30-31; univ. fel, Wisconsin, 31-33, A.M, 32, Ph.D, 34; fel, Brookings Inst, 33-34; Michigan, 35. From res. asst. to prin. supvr. training in pub. admin, Tenn. Valley Authority, 36-37, 38-41; asst. prof. POLIT. SCI, TENNESSEE, 38-39, assoc. prof, 39-45, prof, 45-65, DISTINGUISHED PROF, 65-, HEAD DEPT, 46-, DIR. BUR. PUB. ADMIN, 45-, acting head dept. polit. sci, 41-46. Soc. Sci. Res. Coun. fel, 37-38; vis. prof, Syracuse, 50-51; Alabama; California, Los Angeles; Duke; Georgia, 61, 65; dir. munic. survs, Nashville & Knoxville, Tenn. & Houston, Tex. Consult, personnel dept, Tenn. Valley Authority, 41-42; South. Regional Ed. Bd, 52-54; For. Opers. Admin, 54; Int. Co-op. Admin, 55. Ed, J. Polit, 53-57. Trustee, Nat. Inst. Pub. Affairs, 62- Panel mem. & labor arbitrator, War Labor Bd, Nat. Wage Stabilization Bd. & Conciliation Serv. & Mediation Bd, 44-47. Polit. Sci. Asn; Soc. Pub. Admin; Arbit. Asn. Resources administration; state and local government. Publ: Co-auth, Rescued earth; Government in Tennessee, Univ. Tennessee, 62, 66; American government; policies and functions, Scribner, 67. Address: Dept. of Political Science, University of Tennessee, Knoxville, Tenn. 37916.

GREENE, LYFORD N(ORMAN), b. Greene, Iowa, Jan. 9, 04; m. 35; c. 2. ECONOMICS. B.Sc, Northwestern, 26, M.B.A, 27. Mem. statist. div. econ. studies, Ill. Bell Tel. Co, 27-29; AM. TEL. & TEL. CO, 29-46, supv. statistician indust. studies, 46-53, econ. & tel. views, 53-58, GEN. STATISTICIAN ECON. & TEL. STUDIES, 58- Mem, Nat. Budget & Consult. Cmt. Econ. Asn; Statist. Asn; Nat. Asn. Bus. Econ. Analysis of business conditions and outlook; economics of public utilities. Address: 2 Herkimer Rd, Scarsdale, N.Y. 10583.

GREENE, PROF. MARK R(ICHARD), b. Imbler, Ore, Oct. 28, 23; m. 46; c. 3. MARKETING. A.B, Stanford, 47, M.B.A, 49; Ph.D, Ohio State, 55. Asst. prof. finance & ins, Oregon, 49-51; asst, Ohio State, 52-53; asst. prof. mkt, Washington (St. Louis), 53-55; assoc. prof. ins, OREGON, 55-59, mkt, 60-62, PROF. INS, 62-, DIR, CENTER INT. BUS. STUDIES, 67-, head dept. mkt. & indust. mgt, 60-67. Lectr, Stanford, 51-52; fel, forum on finance, grad. sch. bus, N.Y. Univ, 58; inst. basic math. application to bus, Harvard, 59-60; summers, vis. prof, Denver, 55, California, Los Angeles, 65. Mkt. Asn; Finance Asn. Risk and insurance; risk and risk management; credit insurance; application of mathematical tools to marketing and insurance. Publ: Co-ed, Mathematical methods and models in marketing; auth, Role of employee benefit structures in manufacturing industry, Univ. Oregon, 64; Risk and insurance, South-Western Pub, 2nd ed, 68. Address: School of Business Administration, University of Oregon, Eugene, Ore. 97403.

GREENE, PROF. NORMAN N(ATHANIEL), b. Albany, Ore, Mar. 27, 26; m. 55; c. 1. POLITICAL SCIENCE. B.A, Montana State, 49; M.A, Michigan, 50, Rackham fel, 50-51, univ. fel, 53-54, Ph.D.(polit. sci), 59; Fulbright scholar, Brussels, Belgium, 51-53. Instr. POLIT. SCI, S.Dak. State Col, 56; Mankato State Col, 56-58; ASSOC. PROF, PORTLAND STATE COL, 58- Mem, Citizenship Clearing House, Ore. U.S.A, 44-46. Polit. Sci. Asn. Political theory; existentialism, especially in France; Marxist political thought; government and politics of Africa, especially the Belgian Congo and Ruanda Urundi. Publ: Jean-Paul Sartre, the existentialist ethic. Address: Dept. of Political Science, Portland State College, Portland, Ore. 97201.

GREENE, DR. PETER H(AROLD), Biol, see 11th ed. Phys. & Biol. Vols. & Suppl. II.

GREENE, DR. R(OBERT) E(DWARD) L(EE), b. Raleigh, N.C, Dec. 5, 10; m. 38; c. 3. AGRICULTURAL ECONOMICS. B.S, N.C. State Col, 31, M.S, 33; Ph.D.(farm mgt), Cornell, 40. Asst. farm mgt, exp. sta, N.C. State Col, 33-34, agent, Agr. Adjust. Admin, 34, asst. farm mgt, 34-40, assoc. prof, 40-48; AGR. ECONOMIST, EXP. STA, FLORIDA, 48- Agr. Econ. Asn. Farm organization, management and marketing; ways and means of reducing spoilage, decay, grade defects and other economic losses associated with harvesting and marketing of Early Irish potatoes in Florida and other Southeastern states. Address: Dept. of Agricultural Economics, 159 B McCarty Hall, University of Florida, Gainesville, Fla. 32601.

GREENE, PROF. RONALD R(ILEY), b. Big Run, Pa, July 12, 11; m. 34; c. 1. PSYCHOLOGY. A.B, Muskingum Col, 33; B.D, Drew, 37; M.A, Ohio State, 38, Ph.D.(psychol), 46. Asst. PSYCHOL, Ohio State, 42-44, instr, 44-45; asst. prof, OHIO WESLEYAN, 45-47, assoc. prof, 47-50, PROF, 50- Chmn. dept, 50-66. Psychol. Asn; Personnel & Guid. Asn. Ability to perceive and react differentially to configurational changes in relation to the piloting of light aircraft. Address: Dept. of Psychology, Ohio Wesleyan University, Delaware, Ohio 43015.

GREENE, DR. WILLIAM ALBERT, Exp. Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GREENE, WILLIAM G(OLDSMITH), Indust. Eng, see 11th ed, Phys. & Biol. Vols.

GREENFELD, PROF. NORMAN, b. Brooklyn, N.Y, May 9, 25; m. 56; c. 1. PSYCHOLOGY. B.A, Utica Col, 51; M.A, Syracuse, 53; M.S, Massachusetts, 55, Ph.D.(psychol), 57. Instr. PSYCHOL, Massachusetts, 55-56; asst. prof, STATE UNIV. N.Y. ALBANY, 56, assoc. prof, 61, PROF, 67- Res. Found. res. grant, 61; summers, res. assoc, State Ed. Dept, N.Y, 57; res. fel. lang. & meaning, 61. Summer consult, Proj. Talent, 58. AAAS; Psychol. Asn; Psychonomic Soc. Learning; mechanism of reinforcement; meaningfulness of words; construct formation; theory construction. Publ: Experimental approach to vocal-verbal conflict, 58, Summation of conflict states, 60, Perceptual & Motor Skills; Acquisition of a foreign language as influenced by meaning and reinforcement, Psychol. Reports, 66. Address: State University of New York at Albany, 1223 Western Ave, Albany, N.Y. 12203.

GREENFIELD, DR. HARRY I, Econ, see 10th ed, Soc. & Behav. Vols.

GREENFIELD, DR. LOIS B(RODER), b. Chicago, Ill, Feb. 5, 24; m. 48; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, Chicago, 45, M.S, 46; Ph.D.(ed. psychol), California, 53. Asst, Chicago, 45-46; Ill. Inst. Tech, 47; California, 48-51; proj. assoc, eng. exp. sta, COL. ENG, WISCONSIN, 56-58, ASST. PROF. ENG. ED, 58- Psychol. Asn; Soc. Eng. Ed; Personnel & Guid. Asn. Problem solving processes; factors related to educational achievement; problems in learning. Address: College of Engineering, University of Wisconsin, Madison, Wis. 53706.

GREENFIELD, PROF. NORMAN S(AMUEL), b. New York, N.Y, June 2, 23; m. 48; c. 1. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 48; fel, Langley Porter Clin, 49; M.A, California, Berkeley, 52, Ph.D.(psychol), 53. Instr. clin. psychol, med.

sch, Oregon, 53-54; asst. prof, SCH. MED, WISCONSIN, 54-59, assoc. prof, 59-63, PROF. PSYCHIAT. & ASSOC. DIR. PSYCHIAT. INST, 63- U.S.A.A.F, 43-46. Psychosom. Soc; Psychol. Asn; Soc. Psychophysiol. Res. Psychosomatic and psychophysiological relationships. Publ: Co-ed, Physiological correlates of psychological disorder, 62, Psychoanalysis and current biological thought, 65 & Comprehensive mental health: the challenge of evaluation, 68, Univ. Wisconsin. Address: University Hospitals, 1300 University Ave, Madison, Wis. 53706.

GREENFIELD, PROF. ROBERT W(ALTER), b. Duluth, Minn, June 6, 25; m. 57; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. A.B, Kent State, 49; Ph.D.(sociol, anthrop), Ohio State, 59. Res. assoc, bur. bus. res, Ohio State, 51-53; asst. prof. sociol, Rollins Col, 53-58; lectr, North Carolina, Greensboro, 58-59, asst. prof, 59-60, assoc. prof, 60-63; prof. & chmn. div. soc. sci, Boston, 63-67; PROF. SOCIOL, FLA. PRESBY. COL, 67- Consult, missile test center, U.S. Dept. Air Force, 53-58; missile test unit, Radio Corp. Am, 58. U.S.N, 43-46. Fel. Sociol. Asn. General sociological and social psychological theory; systems analysis. Address: Dept. of Sociology, Florida Presbyterian College, St. Petersburg, Fla. 33733.

GREENFIELD, DR. SIDNEY M(ARTIN), b. New York, N.Y, Apr. 30, 32; m. 54; c. 2. ANTHROPOLOGY, SOCIOLOGY. A.B, Brooklyn Col, 54; univ. fel, Curtis fel. & Ph.D, Columbia, 59. Instr. anthrop, Hunter Col, 58; anthrop. & sociol, Conn. Col, 58-59; asst. prof, Purdue, 59-64; ASSOC. PROF. SOCIOL, WISCONSIN, MILWAUKEE, 64- Staff ed, Int. Encyclop. Soc. Sci, 62-63. AAAS; Anthrop. Asn; Sociol. Asn; Ethnol. Soc; Soc. Appl. Anthrop. Comparative social and economic organization; ethnology of the West Indies and Brazil; social and cultural theory. Publ: English rustics in black skin, Col. & Univ, 66; Industrialization and the family in sociological theory, Am. J. Sociol; Social change and labor commitment in southeastern Minas Gerais, Inter-Am. Econ. Affairs, 63. Address: Dept. of Sociology, University of Wisconsin, Milwaukee, Wis. 53201.

GREENGO, DR. ROBERT E(UGENE), b. Emmetsburg, Iowa, July 31, 23; m. 48; c. 3. ANTHROPOLOGY. A.B, California, 48, M.A, 51; fel. & Ph.D, Harvard, 57. Archaeologist, Smithsonian Inst, 57; asst. prof. ANTHROP, WASHINGTON (SEATTLE), 57-62, ASSOC. PROF, 62- U.S.A, 43-45. Am. Anthrop. Asn; Soc. Am. Archaeol; Mex. Anthrop. Soc. Culture history of New World, especially North America and Middle America; prehistoric archaeology in Old World, especially Europe and Near East; anthropology of peoples of Pacific Rim. Publ: Olmec phase in eastern Mexico, Bull. Tex. Archaeol. & Paleontol. Soc; Rocker-stamped pottery in the Old and New World, Papers, Int. Cong. Anthrop. & Ethnol. Sci; Issaquena: an archaeological phase in the lower Yazoo basin of the Mississippi valley, Mem. Soc. Am. Archaeol. Address: Dept. of Anthropology, University of Washington, Seattle, Wash. 98105.

GREENHILL, PROF. H(AROLD) GAYLON, b. Colfax, Wis, Nov. 2, 36; m. 66. POLITICAL SCIENCE. B.S, Wis. State, River Falls, 58; James Garner fel, Illinois, 58-59, M.A, 59, univ. fel, 59-60, Ph.D.(polit. sci), 62; Fulbright scholar, Oslo, 60-61. Asst. prof. POLIT. SCI, WIS. STATE, WHITEWATER, 62-65, assoc. prof, 65-67, PROF, 67-, DIR. SUMMER SESSION & EXTEN. SERV, 68-, chmn. dept, 65-68. Citizens' Res. Found. res. grant, 64-65; Danforth Assoc, 65. Participant, White House Conf, To Fulfill These Rights, 66. Am. Polit. Sci. Asn; Int. Polit. Sci. Asn. Western European government and politics. Publ: Labor money in Wisconsin politics, 1964, Citizens Res. Found, 66; The Norwegian Agrarian Party: a class party?, Soc. Sci, 65. Address: Dept. of Political Science, Wisconsin State University, Whitewater, Wis. 53190.

GREENHOUSE, DR. SAMUEL W(ILLIAM), Math Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GREENHUT, PROF. MELVIN L(EONARD), b. New York, N.Y, Mar. 10, 21; m. 44; c. 4. ECONOMICS. A.B, Hofstra Col, 40; A.M, Washington (St. Louis), 47, Ph.D, 51. Asst. prof. econ, Auburn, 48-52; assoc. prof, Miss. State, 52-53; prof, Rollins Col, 53-56; Fla. State, 57-59; prof. econ, assoc. dean sch. bus. & dir. eve. div, Richmond, 59-62; prof. ECON, Fla. State, 62-66; PROF. & HEAD DEPT, TEXAS A&M, 66- Vis. prof, Mich. State, summer 63. Chief econ, Off. Price Stabilization, 52; econ. observer, Bemis Bros. Bag.Co, 53-; E.I. du Pont de Nemours Inc, 56. Consult, Am. Tel. & Tel. Co, spec. consult, risk & uncertainty cmt, 61-62; Fla. Develop. Cmn. Indust. Location in Fla, 58-59; indust. develop. br, eng. dept. sta, Ga. Inst. Tech; Rountree Assocs, 59; Atlantic Res. Corp, 62; consult to pres, Amerad Corp, 62-64; consult, South. Conf. Coun. State Govt, 64-66; bur. bus. res, Memphis State, 65. Ed, South. Econ. J, 66-68. Mem. nat. econ. policy cmt. & econ. adv. coun, U.S. Chamber of Commerce, 61-64; Inter-Univ. cmt. res. south, 59-64; indust develop. cmt, Richmond Chamber of Commerce, 62. U.S.A, 42-46, Res, 46-, Maj. Regional Sci. Asn; Econ. Asn. Economic theory; location economics; decision theory government regulation of business. Publ: Microeconomics and the space economy; Essays in southern economic development; Plant location in theory and in practice, Univ. North Carolina, Chapel Hill, 56, 2nd ed, 61, 3rd ed, 67. Address: Dept. of Economics, Texas A&M University, College Station, Tex. 77843.

GREENING, DR. CHARLES PHILIP, b. Grand Meadow, Minn, Apr. 6, 21; m. 42; c. 1. EDUCATIONAL PSYCHOLOGY, PHYSICS. B.S, Carnegie Inst. Tech, 43; M.A, California, Berkeley, 49, Ph.D.(ed), 60. Physicist, radiation lab, California, Berkeley, 44-45; ord. engr, U.S. Naval Ord. Test Sta, Calif, 45-46; acting asst. prof. ed. psychol, Washington (Seattle), 50-51; training specialist tech. courses, Northrop Aircraft, Inc, Calif, 51-52; training specialist & supvr, missile & control equip. div, N.AM. ROCKWELL CORP, 52-56, sr. res. engr, 56, training dir, missile div, 56-57, specialist & supvr. human factors, AUTONETICS DIV, 57-66, SCI. ADV. MAN & MACH. SYSTS, 66- Human Factors Soc; sr. mem. Inst. Elec. & Electronics Eng. Visual performance in dynamic search and object recognition; man-machine relationships in complex systems; display devices and their effects on operator performance. Publ: Co-auth, Fundamentals of missile guidance, Astronautics, 5/58; auth, Coriolis effects on operator movements in rotating vehicles, 5/62 & co-auth, Effect of blur and size on target recognition, 1/67, J. Aerospace Med. Address: North American Rockwell Corp, Autonetics Div, 3370 Miraloma Ave, Anaheim, Calif. 92803.

GREENLAW, PROF. PAUL S(TEPHEN), b. Bridgeport, Conn, July 28, 30; m. 53; c. 4. BUSINESS MANAGEMENT. A.B, Syracuse, 52, Maxwell fel. & Ph.D, 55; A.M, Clark, 53. Instr. polit. sci, Duke, 55-56; training specialist, Kroger Co, Ohio, 56-59; dir. mgt. develop, Dayco Corp, 59-60; asst. prof. MGT, PA. STATE, 60-61, assoc. prof, 61-64, PROF, 64- Ed. consult, grad. sch. admin, California, Irvine, 66- Acad. Mgt. Management decision making; management science and personnel management; management training and development; computerized and non-computerized business simulation. Publ: Co-auth, Business simulation, Prentice-Hall, 62, Management decision making, Irwin, 66 & Finansim: a financial management simulation, Int. Textbook, 67. Address: Boucke Bldg, College of Business Administration, Pennsylvania State University, University Park, Pa. 16802.

GREENLEAF, DR. WILLIAM, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GREENLICK, DR. MERWYN RONALD, b. Detroit, Mich, Mar. 12, 35; m. 56; c. 3. MEDICAL CARE ORGANIZATION. B.S, Wayne State, 57, M.S, 61; U.S. Pub. Health Serv. trainee, Michigan, 62-64, Ph.D.(med. care orgn), 67. Instr. pharm. admin, Wayne State, 58-62; DIR. MED. CARE RES, KAISER FOUND. HOSPS, 64- Lectr. sociol, Portland State Col, 65-, sch. soc. work, 67- Fel. Pub. Health Asn; Sociol. Asn; Statist. Asn. Pharmacy administration; medical sociology and economics. Publ: Co-auth, Prescription utilization by the aged, J. Geront, 4/64, The objective measurement of the post-hospital needs of a known population, Am. J. Pub. health, 8/66 & Pain response in Negro and white obstetrical patients, J. Health & Soc. Behav, 9/67. Address: 5055 N. Greeley, Portland, Ore. 97217.

GREENMAN, DR. EMERSON FRANK, b. Hartwellville, Mich, Sept. 10, 95; m. 27; c. 3. ANTHROPOLOGY. A.B,Michigan, 23, Ph.D.(anthrop), 27; dipl, Oxford, 24. Curator anthrop, mus. anthrop, Michigan, 24-28; curator, Ohio State Archaeol. & Hist. Soc, 28-35; res. assoc, mus. anthrop, MICHIGAN, 35-37, asst. curator, 38-41, curator, 41-65, assoc. prof. ANTHROP, UNIV, 46-63, prof, 63-65, EMER. PROF, 65- Ord. Dept, U.S.A, 17-19. Fel. Anthrop. Asn; Soc. Am. Archaeol; Am. Antiq. Soc. Early man in the New World: the Old World up to Middle Bronze Age; archaeology of northeastern North America. Publ: The North Atlantic and early man in the New World; The Indians of Michigan, Mich. Hist. Soc, 61; Chronology of sites at Killarney, Canada, Am. Antiq, 66. Address: 2865 Gladstone, Ann Arbor, Mich. 48104.

GREENO, DR. JAMES GORDON, b. Sioux Falls, S.Dak, May 1, 35; m. 57; c. 2. PSYCHOLOGY. B.A, Minnesota, 57, M.A, 58, Ph.D, 61. Instr. PSYCHOL, INDIANA, 61-63, asst. prof, 63-65, ASSOC. PROF, 65- AAAS; Psychonomic Soc; Psychomet. Soc; Psychol. Asn. Mathematical learning theory; human memory and thinking; philosophy of psychology. Publ: Co-auth, Markovian processes with identifiable states, Psychometrika, 64; All-or-none transfer bases on verbally mediated concepts, 64 & auth, Paired-associate learning with short term retention, 67, J. Math. Psychol. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

GREENOUGH, DR. WILLIAM C(ROAN), b. Indianapolis, Ind, July 27, 14; m. 41; c. 3. ECONOMICS. A.B, Indiana, 35, LL.D, 66; A.M, Harvard, 38, Ph.D.(econ), 49. Asst. to pres, TEACHERS INS. & ANNUITY SOC, 41-43, 46-48, v.pres, 48-55, exec. v.pres, 55-57, pres, 57-62, pres, 63-67, CHMN, 63-; CHMN, COL. RETIREMENT EQUITIES FUND, 63-, v.pres, 52-55, exec. v.pres, 55-57, pres, 57-67. Trustee, Teachers Ins. & Annuity Asn; Col. Retirement Equities Fund; Dry Dock Savings Bank; Brearley Sch; Devereux Found; Russell Sage Found. Mem. bd. dirs, Indiana Univ. Found; mem. Cmn. Col. Admin, Asn. Am. Cols; Cmn. Admin. Affairs, Am. Coun. Ed. Elizur Wright award. U.S.N, 43-45, Lt. Econ. Asn; Finance Asn. (v.pres, 52). Economic research into investment experience with debt obligations and common stocks; retirement and insurance plans. Publ: College retirement and insurance plans; New approach to retirement income: co-auth, Retirement and insurance plans in American colleges. Address: Teachers Insurance & Annuity Society, 730 Third Ave, New York, N.Y. 10017.

GREENSHIELDS, PROF. CHARLES M(ARTIN), b. Flint, Mich, Jan. 20, 29; m. 50; c. 4. PSYCHOLOGY. B.A, Mich. State, 54, M.A, 55, Ph.D, 58. Res. assoc. group dynamics, Delaware, 56-57; instr. child develop, Mich. State, 57-58; assoc. prof. psychol, Hillsdale Col, 58-61, prof, 61-63; assoc. prof. ed, State Univ. N.Y. Col. Buffalo, 63-65, prof, 65-66, res. assoc, 63-66; ASSOC. PROF. PSYCHOL, GRAND VALLEY STATE COL, 66- Grant, 64-66. U.S.A, 46-49. Asn. Res. Growth Relationships; Ed. Res. Asn; Coun. Measurement in Ed. Human growth and development, especially measurement and techniques of analysis of longitudinal data. Publ: Application of more precise techniques of analysis & Growth the variable of education, 65, J. Asn. Res. Growth Rel; Effect of closure on formation of impression, Psychol. Reports. Address: Grand Valley State College, Allendale, Mich. 49401.

GREENSPAN, ALAN, b. New York, N.Y, Mar. 6, 26. ECONOMICS, STATISTICS. B.S, N.Y. Univ, 48, M.A, 50; Columbia, 50. Indust. economist, Nat. Indust. Conf. Bd, 48-53; v.pres, TOWNSEND-GREENSPAN & CO, INC. & TOWNSEND-SKINNER & CO, INC, 53-58, PRES, 58- Instr, N.Y. Univ, 53-55; dir, Trans-World Financial Co, 62-; Standard Prudential United, 66-; pres, Anecon Corp, 67- Econ. Asn; Statist. Asn; Finance Asn; Asn. Bus. Econ. Evaluation of capital, especially as it affects the business cycle and business investment decisions. Publ: Economics of air power; Stock prices and capital evaluation & Business investment decisions and full employment models, Proc. Am. Statist. Asn. Address: 80 Pine St, New York, N.Y. 10005.

GREENSPAN, HARRY J(OSEPH), b. Duluth, Minn, Mar. 1, 16; m. 39; c. 2. ECONOMICS. M.A, Minnesota, 49. Bus. economist, U.S. Bur. Labor Statist, 49-54; statistician, bur. ships, U.S. Dept. Navy, 54-60; LABOR ECONOMIST, U.S. BUR. LABOR STATIST, 60- U.S.N, 43-46, Lt. Econ. Asn; Statist. Asn. Productivity; measurement of large program objectives and progress; employment by occupation. Address: Office of Manpower & Employment Statistics, U.S. Bureau of Labor Statistics, General Accounting Office Bldg, Fourth & G St. N.W, Washington, D.C. 20001.

GREENSPOON, DR. JOEL, b. Charlestown, W.Va, Oct. 11, 21; m. 55; c. 3. PSYCHOLOGY. B.S, Virginia, 41; M.A, Pennsylvania, 47; Ph.D.(psychol),

Indiana, 52. Res. psychologist, Naval Electronics Lab, 51-53; asst. prof. psychol, Pomona Col, 51-55; syst. anal. engr, Aerojet-Gen. Corp, summer, 55; dir. clin. training prog, Fla. State Univ, 55-63; Arizona State Univ, 63-67; CHMN. BEHAV. SCI. DIV, TEMPLE BUELL COL, 67- Consult, Vet. Admin, 56-57; Barrow Neurol. Inst, Phoenix, Ariz, 63-67. U.S.A, 42-46, Sgt. Psychol. Asn. Verbal behavior and learning; psychotherapy; verbal learning. Publ: The reinforcing effects of two spoken sounds, Am. J. Psychol, 55; co-auth, Psychotherapy from the standpoint of a behaviorist, Psychol. Record, 67 & A new look at psychological testing: psychological testing from the standpoint of a behaviorist, Am. Psychologist, 67. Address: Behavioral Science Division, Temple Buell College, Denver, Colo. 80220.

GREENSTEIN, PROF. FRED I, b. New York, N.Y, Sept. 1, 30; m. 57; c. 3. POLITICAL SCIENCE. B.A, Antioch Col, 53; M.A, Yale, 57, Ph.D.(polit. sci), 60. Instr. polit. sci, Yale, 58-62; asst. prof. GOVT, WESLEYAN, 62-64, assoc. prof, 64-66, PROF, 66- Fel, Center Adv. Study Behav. Sci, 64-65; vis. prof, Yale, 66- U.S.A, 52-54. Polit. Sci. Asn; Soc. Psychol. Study Social Issues. American party politics; psychology and politics; political socialization. Publ: Co-auth, Introduction to political analysis, 62, 67, auth, American party system and the American people, 63, Prentice-Hall; Children and politics, Yale, 66. Address: Dept. of Government, Wesleyan University, Middletown, Conn. 06457.

GREENSTEIN, DR. JULES M(AURICE), b. New York, N.Y, May 22, 30; m. 55; c. 2. CLINICAL PSYCHOLOGY, PERSONALITY. B.A, City Col. New York, 52, M.A, 53; Ph.D.(psychol), Rutgers, 61. Sr. clin. psychologist, State Diag. Center, N.J, 56-62; asst. prof. PSYCHOL, YESHIVA, 62-65; ASSOC. PROF, 65- Lectr, Yeshiva, 59; Douglass Col, Rutgers, 61-62; res. assoc, Lexington Sch. Deaf, 67- Psychol. consult, Rahway Prison Farm, N.J, 61-67. Psychol. Asn; Soc. Res. Child Develop. Personality research methods; social learning; motivation and intellectual development; sex-typing; statistical methods; psychometric theory. Publ: Father characteristics and sex-typing, J. Personality & Soc. Psychol, 66. Address: 20 Rose St, Metuchen, N.J. 08840.

GREENWALD, DR. ALAN FRANK, b. New York, N.Y. Mar. 18, 33; m. 55. PSYCHOLOGY. B.A, Miami (Fla), 54, M.S, 55; Ph.D, Chicago, 59. Asst, counseling center, Chicago, 55-56; clin. psychologist, U.S. Naval Hosp, Bethesda, Md, 57; U.S. Naval Retraining Cmn, N.H, 57-59; corrections div, bur. naval personnel, U.S. Dept. Navy, D.C, 59-61; DIR. PSYCHOL. SERV, SETON PSYCHIAT. INST, 61- Lectr, George Washington, 59-61; Baltimore Jr. Col, 64-67; prof, St. Mary's Sem, Baltimore, 66-; lectr, Trinitarian Col, 67- U.S.N, 56-61, Res, 61-63, Lt. Psychol. Asn. Use of projective techniques in the assessment of personality and therapeutic progress; study of psychiatric patients discharged against medical advice; psychological studies of seminary students. Publ: Affective complexity and psychotherapy, J. Proj. Tech; Psychiatric discharges against medical advice, Arch. Gen. Psychiat, 63; Adjustment patterns in theology students, Rev. Relig, 67. Address: Seton Psychiatric Institute, 6400 Wabash Ave, Baltimore, Md. 21215.

GREENWALD, DR. ANTHONY GALT, b. New York, N.Y, Jan. 30, 39; m. 64; c. 2. PSYCHOLOGY. B.A, Yale, 59; M.A, Harvard, 61, Ph.D.(soc. psychol), 63. U.S. Pub. Health Serv. fel. PSYCHOL, res. div, Ed. Testing Serv, 63-65; Mershon asst. prof, OHIO STATE, 65-67, MERSHON ASSOC. PROF, 67- Nat. Inst. Ment. Health res. grant, response selection and sensory feedback, 66-67; Mershon Soc. Sci. prog. res. grant, Ohio State, propaganda effectiveness, 66-67; Nat. Sci. Found. res. grant, effectiveness of persuasive messages, 67-69. Psychol. Asn. Theory of learning and behavior; psychology of attitudes. Publ: Co-auth, Reward and punishment in human learning, 68 & Psychological foundations of attitudes, 68, Academic; Attitude and selective learning: where are the phenomena of yesteryear ?, J. Personality & Soc. Psychol, 67. Address: Dept. of Psychology, Ohio State University, 1945 N. High St, Columbus, Ohio 43210.

GREENWALD, PROF. H. JONATHAN, b. Kansas City, Mo, Apr. 16, 15; m. 50. PSYCHOLOGY. A.B, Kansas, 36; Wilbur Fund scholar, Vermont, 49-50, M.Ed, 50; Emerson fel, Harvard, 51-52, Ed.D, 55. Lectr. psychol, R.I. Sch. Design, 52-55, assoc. prof. psychol. & chmn. div. teacher ed, 55-59, dir. grad. studies, 57-59; assoc. prof. psychol, WEST. CONN. STATE COL, 59-63, PROF. PSYCHOL. & CHMN. INTERDISCIPLINARY DEPT, 63- U.S.A, 41-45, Sgt. Psychol. Asn. Social and visual perception; psychology of imagination; esthetics; philosophy of science. Publ: Reconsideration of self-expression, East. Arts Bull; Comments on Dewey during the centennial year, Teacher Ed. Quart. Address: Interdisciplinary Dept, Western Connecticut State College, Danbury, Conn. 06810.

GREENWALD, DR. HAROLD, b. New York, N.Y, July 28, 10; m. 37; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 33; M.A, Columbia, 55, Ph.D. (soc. psychol), 56. Teacher, bd. ed, N.Y, 36-37; lectr, Mayor's Cmt. City Planning, 37-38. Private practice, 52-; res. assoc, Theodor Reik Clin, 56-59; mem. training, Inst. Nat. Psychol. Asn. Psychoanal, 59-; dir. group therapy, Stuyvesant Polyclin. Hosp, 59-; lectr, Pratt Inst, 59-60; teachers col, Columbia, 60-61; supv. psychologist, Community Guid. Serv, Inc, 61-; dir. group therapy, Center for Creative Living, 63-; vis. prof, New Sch. Soc. Res, 63-64; mem. faculty, Metrop. Inst. Psychoanal. Studies, 64- Consult, Pride of Judea Treatment Center, 66- Exec. mem, Coun. Psychoanal. Psychother, 59-60. U.S.A.A.F, 43-45. AAAS; Asn. Appl. Psychoanal.(pres, 59-60); Psychol. Asn; Soc. Clin. & Exp. Hypnosis; Group Psychother. Asn; Psychol. Asn. for Psychoanal.(pres, 67-68). Individual and group psychotherapy; behavior disorders and delinquency; premarital and marital problems; psychological and social parameters of war and peace. Publ: The call girl, a social and psychoanalytic study; Great cases in psychoanalysis; The active psychotherapies, Atherton, 67. Address: 11 W. 81st St, New York, N.Y. 10024.

GREENWALD, DR. HERBERT J, b. New York, N.Y, July 14, 29; m. 63; c. 2. SOCIAL PSYCHOLOGY. B.S, Columbia, 50, B.A, 52, M.A, 54, Ph.D.(soc. psychol), 64; M.S, Long Island, 59. Retail pharmacist, Greenwald Ethical Pharm, N.Y, 56-57; detail man, Armour & Co, Ill, 57-59; proj. dir. consumer res, Nowland & Co, Conn, 59-60; soc. psychol. trainee, Vet. Admin. Hosp, East Orange, N.J, 60-63; Nat. Inst. Ment. Health fel. soc. psychol, Duke. 63-64; ASST. PROF. psychol, North Carolina, 64-65; BOSTON, 65-67, COMMUN. RES, 67- Nat. Inst. Ment. Health fel, 64. U.S.A, 54-56. AAAS; Psychol. Asn. Theory and research related to opinion change; social psychological research methodology. Publ: Disguise for obtaining self-report data, 67, & The basic assumptions of dissonance theory, 68, Psychol. Reports; co-auth, Reported magnitude of self-mis-identification among Negro children—artifact?, J. Personality & Soc. Psychol, 1/68. Address: Dept. of Communication Research, Boston University, Boston, Mass. 02215.

GREENWALD, DR. NORMAN D(AVID), Comp. Govt, see 10th ed, Soc. & Behav. Vols.

GREENWALD, DR. WILLIAM IRVING, b. Cumberland, Md, Dec. 7, 20; m. 41; c. 4. ECONOMICS. B.A, Brooklyn Col, 41; M.A, N.Y. Univ, 45, Ph.D, 50. ASSOC. PROF. ECON, CITY COL. NEW YORK, 46- Res. economist, Nat. Bur. Econ. Res, 46-55; Ford Found. fel, Pennsylvania, 61-62. Consult, 55-U.S.A, 43. Econ. Asn; Statist. Asn. Industrial organization and public policy; economic statistics. Publ: Supply shifts and iron ore pricing, J. Indust. Econ; Capitalized pricing of injury to capital in treble damage suits, Cornell Law Quart; Measurement of damages in private antitrust suits, Antitrust Bull. Address: Dept. of Economics, City College of New York, Convent Ave. & 138th St, New York, N.Y. 10031.

GREENWAY, PROF. JOHN, b. Liverpool, Eng, Dec. 15, 19; U.S. citizen; m. 48; c. 1. ANTHROPOLOGY. A.B, Pennsylvania, 47, M.A, 48, Ph.D, 51; M.A, Colorado, 58. Asst. instr. Eng, Pennsylvania 47-48; instr, Rutgers, 51-53; asst. prof, Denver, 53-56; res. scholar folklore, Sydney, 56-57; instr. ANTHROP, COLORADO, 57-58, from asst. prof. to assoc. prof, 58-65, PROF, 65- Vis. asst. prof, California, Los Angeles, 60-61; Nat. Inst. Ment. Health res. fel, Australia, 65-66. Ed, J. Am. Folklore, 64-68. U.S.A, 43-44. Fel. Anthrop. Asn; Soc. Ethnomusicol. Cultural anthropology; Australian aboriginal anthropology; folklore. Publ: American folksongs of protest, Univ. Pennsylvania, 53; Literature among the primitives, Folklore, 64; The inevitable Americans, Knopf, 64. Address: Dept. of Anthropology, University of Colorado, Boulder, Colo. 80302.

GREENWOOD, PROF. ERNEST, b. Hungary, Dec. 26, 10; nat. SOCIOLOGY. A.B, Ohio, 33; M.A, Cincinnati, 36; Ph.D.(sociol), Columbia, 43; M.A. Chicago, 47. Instr. sociol, Cincinnati, 44-46; asst. dir. res. dept. Los Angeles Welfare Coun, 47-51; assoc. prof. SOC. WELFARE, Pittsburgh, 51-53; CALIFORNIA, BERKELEY, 53-63, PROF, 63- Vis. prof, Inst. Soc. Serv, Univ. Chile, 67-68. Sociol. Asn. Methodology; sociology of social welfare. Publ: Experimental sociology, a study in method. Address: 1364 Euclid Ave, Berkeley, Calif. 94708.

GREENWOOD, JAMES W(ILLIAM), JR, b. Philadelphia, Pa. Sept. 3, 12; m. 30; c. 5. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.S. American Univ, 49, M.A, 60. With various U.S. Govt. agencies, 36-47; dir. admin. mgt. Fed. Mediation & Conciliation Serv, 47-50, assoc. dir, 50-53; asst. dir. labor rels. Glass Container Mfrs. Inst, 54-56; mem. planning staff, U.S. Internal Revenue Serv, 57; dir. bur. mgt. methods, Gov. Off. Pa. 57-59; chief mgt. anal. staff, OFF. SECY, DEPT. HEALTH, ED. & WELFARE, 59-61, DIR. OFF. MGT. PLANNING, 61- Instr, U.S. Dept. Agr. Grad. Sch, 63- Mgt. consult, 53-59. Finance officer, second annual conf. food & agr. orgn, UN, 46. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. U.S. government loyalty-security program; management systems. Publ: EDP: the feasibility study: analysis and improvement of data processing. Systs. & Procedures Asn, 62. Address: 7314 Lois Lane, Lanham, Md. 20801.

GREENWOOD, DR. NED H, b. Eagar, Ariz, Oct. 19, 32; m. 58; c. 3. GEOGRAPHY. B.A, Brigham Young, 59; Ph.D.(geog), Ohio State, 63. Asst. instr, Ohio State, 61-62; geographer, Soil Conserv. Serv, U.S. Dept. Agr, 62-64; ASST. PROF. GEOG, SAN DIEGO STATE COL, 64- Instr, evening exten, Univ. Virginia, 62-63. Mem, U.S-U.S.S.R. Exchange Del. Study Irrig. & Reclamation in Soviet Union, 63. U.S.N.R, 56-58, Lt. Asn. Am. Geog. Problems of resource management and conservation; environmental quality, particularly pollution, open space and wilderness retention. Publ: Feasibility of transmountain diversions across the White Mountains of Arizona, J. Geog, 5/63; Irrigation and water resources of the Sevan-Razdan Cascade, Armenia, Ann. Asn. Am. Geog, 6/65. Address: Dept. of Geography, San Diego State College, San Diego, Calif. 92115.

GREER, DR. DEON CARR, b. Gallup, N.Mex, Mar. 30, 32; m. 59. GEOGRAPHY, POLITICAL SCIENCE. B.A, Brigham Young, 59, M.A, 60; Ph.D. (geog), Indiana, 68. Researcher E. European geog, U.S. Govt, 61-62; lectr. polit. sci, Maryland, 62-67; teaching asst. GEOG, Indiana, 67-68; ASST. PROF, WEBER STATE COL, 68- U.S.A, 56-58, Capt. Asn. Am. Geog; Polit. Sci. Asn. The Russo-Finnish border problem of 1940-44; economic geography of the Common Market. Address: 735 E. 820 N, Provo, Utah 84601.

GREER, DR. F(REDERICK) LOYAL, b. Philadelphia, Pa, June 7, 26. SOCIAL PSYCHOLOGY. A.B, Temple, 47, A.M, 48; Sanger scholar, Harvard, 48-49, univ. scholar, 50, Ph.D.(soc. psychol), 54. Res. assoc. psychol. res, Inst. Res. Human Rels, 50-54; group training specialist, Rand Corp, 54-56; proj. dir. psychol. res, Psychol. Res. Assocs, 56-57; team chmn, spec. opers. res. off, American Univ, 57-58, chmn. oper. appln. res. div, 64-66; mgr. human factors & training, defense systs. dept, Gen. Elec. Co, 58-63, prog. eng, info. systs. oper, 63-64; private consult, 66-68; SR. STAFF MEM. & CORP. OFFICER, INFO. SYST. ARCHITECTONICS, INC, 68- U.S.N, 44-46. AAAS; Psychol. Asn; fel. Sociol. Asn. Attitudes; group behavior; leadership; information processing. Publ: Leader indulgence and group performance, Psychol. Monogr; co-auth, Interpersonal knowledge and individual and group effectiveness, J. Abnorm. & Soc. Psychol; auth, User vocabulary in thesaurus development, Perceptual & Motor Skills, 12/65. Address: 1600 16th St. N.W, Washington, D.C. 20009.

GREER, PROF. S(COTT) A(LLEN), b. Sweetwater, Tex, Oct. 25, 22; m. 46; c. 1. SOCIOLOGY. Livingston fel, 49-51; Ph.D, California, Los Angeles, 52. Lectr. sociol, California, 51-52; asst. prof, Occidental Col, 52-55; chief sociologist, Metrop. St. Louis Surv, 56-57; assoc. prof. SOCIOL. & POLIT. SCI, NORTHWESTERN, 57-62, PROF, 62- Sociol. Asn. Social organization;

stratification; urbanization and urbanism. Publ: Social organization; Last man in: The emerging city. Address: Dept. of Sociology, Northwestern University. Evanston, Ill. 60201.

GREGG, DR. DAVIS WEINERT, b. Austin, Tex, Mar. 12, 18; m. 42; c. 2. ECONOMICS. B.B.A, Texas, 39; M.B.A, Pennsylvania, 40, Ph.D, 48. Prof. ins, Ohio State, 48-49; Stanford, 49; asst. dean, AM. COL. LIFE UNDERWRITERS, 49-51, dean, 51-54, PRES, 54- Ed, Irwin Series in Risk & Ins. Chmn, McCahan Found, 65- AAAS; Econ. Asn; Acad. Polit. & Soc. Sci; Risk & Ins. Asn. (pres, 61). Publ: Group life insurance, 62, ed, Life & health insurance handbook, 65 & co-ed, Property and liability insurance handbook, 65, Irwin. Address: American College of Life Underwriters, Bryn Mawr, Pa. 19010.

GREGG, DR. GRACE STOLLAR, b. Pittsburgh, Pa, Nov. 25, 19; m. 45; c. 4. PEDIATRICS. B.S, Pittsburgh, 41, M.D, 43. Pediat. training, Children's Hosp, Pittsburgh, 43-45, asst. cardiologist, 45-51; consult. pediatrician, Russellton Med. Group, 51-64; dir. develop. clin. & co-dir, Nat. Inst. Ment. Health res. proj, Children's Hosp, Pittsburgh, 64- Dir. med. component, Proj. Head Start, 65; clin. asst. prof, sch. med, Pittsburgh, 67-; West. Psychiat. Inst, 67- Consult, West Deer Township Sch. Health Prog, 51-64. Dipl, Am. Bd. Pediat, 51. Am. Med. Asn; Acad. Pediat; Soc. Res. Child Develop; Asn. Ment. Deficiency. Mental retardation; child development; abuse and neglect; environment. Publ: Co-auth, Developmental characteristics of abused children, Pediatrics, 40: 596; auth, The pediatrician and mental retardation, J. Community Psychiat, (in press); co-auth, Developmental characteristics of children with psycho-social growth failure, (in prep). Address: 110 Millview Dr, Pittsburgh, Pa. 15238.

GREGG, DR. JAMES ERWIN, b. Harrisburg, Pa, May 3, 27; m. 55; c. 4. POLITICAL SCIENCE. B.A, Lebanon Valley Col, 50; M.A, California, Berkeley, 54; fel, California, Santa Barbara, 63-64, Ph.D.(polit. sci), 64. Asst. prof. journalism & polit. sci, Chico State Col, 59-62; publications dir, California, Santa Barbara, 62-63; ASSOC. PROF. POLIT. SCI, CHICO STATE COL, 64-, CHMN. DEPT, 65- Teacher, Shasta Union High Sch. & Jr. Col, 52-59; Nat. Center Ed. Polit. fel, personal staff, Gov. Calif, 65-66. Consult, State Citizens Cmn. Pub. Ed, Calif, 67- Annual award best work of scholarship, West. Polit. Sci. Asn, 66. U.S.N, 45-46. Polit. Sci. Asn. Impact of mass media of communications on the political process. Publ: Newspaper editorial endorsements and California elections, 1948-62, Journalism Quart, autumn 65; Editorial endorsements and local elections in California, Monogr. Inst. Govt. Affairs, Univ. California, Davis, 5/66. Address: 1655 Filbert Ave, Chico, Calif. 95926.

GREGG, PROF. LEE W(ILLIAM), b. Freeport, Ill, Mar. 20, 26; m. 49; c. 5. PSYCHOLOGY. B.S, Northwestern, 48; M.S, Wisconsin, 50, Ph.D.(psychol), 52. Asst. prof. PSYCHOL, CARNEGIE-MELLON UNIV, 52-57, assoc. prof, 57-61, PROF, 61- Ford Found. faculty res. fel, 62-63; vis. prof. computer sci, Wisconsin, 66-67. Sig.C, U.S.A, 44-46. AAAS; Psychol. Asn; Human Factors Soc; Psychonomic Soc. Human learning; sensory processes; computer simulation of cognitive processes. Publ: Internal representations of sequential concepts, Wiley, 67; co-auth, Process models and stochastic theories of simple concept learning, J. Math. Psychol, 67; co-auth, Effects of induced chunking on temporal aspects of serial recitation, J. Exp. Psychol, 67. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

GREGOR, DR. A. JAMES, b. New York, N.Y, Apr. 2, 29; m. 63. POLITICAL SCIENCE. B.A, Columbia, 52, Edman fel, 58-59, M.A, 59, Ph.D.(philos), 61. Instr. high schs, N.Y, 52-58; reader philos, Columbia, 58-59; instr, Washington Col, 60-61; asst. prof, Hawaii, 61-64; ASSOC. PROF, Kentucky, 64-66; Texas, 66-67; POLIT. SCI, CALIFORNIA, BERKELEY, 67- Summer consult, Human Genetics Fund, Australia, 62 & S.W. Africa, 65, Africa Inst, 63, Inst. Int. Studies, Berkeley & E.Germany, 67 & 68. U.S.A, 46-48. Philos. Asn; Sociol. Asn; Polit. Sci. Asn. Philosophy of the behavioral science and social and political philosophy. Publ: A survey of Marxism, 65 & Contemporary radical ideologies, 68, Random; The ideology of Fascism, Macmillan, 69. Address: 1483 Olympus Ave, Berkeley, Calif. 94708.

GREGOR, DR. HOWARD F(RANK), b. Two Rivers, Wis, Apr. 7, 20; m. 50; c. 1. GEOGRAPHY. B.S, Wisconsin, 46, M.S, 47; Ph.D.(geog), California, Los Angeles, 50. Instr. geog, Indiana, 50-51; consult. econ. geog, U.S. Govt, 51-53, 55; vis. asst. prof. geog, Oregon, 53-54; asst. planning, Los Angeles County Regional Planning Cmn, 54; asst. prof. GEOG, San Jose State Col, 55-58, assoc. prof, 58-60; asst. prof, CALIFORNIA, DAVIS, 60-64, ASSOC. PROF, 64- Asn. Am. Geog; fel. Am. Geog. Soc; Asn. Pac. Coast Geog. Agricultural and natural resources geography; geography of California and North America. Publ: Environment and economic life, Van Nostrand, 63; The changing plantation, Ann. Asn. Am. Geog, 65; Industrialized drylot dairying: an overview, Econ. Geog, 65. Address: Dept. of Geography, University of California, Davis, Calif. 95616.

GREGORY, DR. ANNADORA F(OSS), b. Neligh, Nebr, Apr. 15, 93. SOCIOLOGY. A.B, Doane Col, 15; A.M, Nebraska, 18, fel, 30-32, Ph.D, 32. Instr. hist, Cottey Col, 22-24; prof. soc. sci, Nebr. State Teachers Col.(Chadron), 32-58; RETIRED. Sociol. Asn; Hist. Asn. Nebraska and American history; community research. Publ: Pioneer days in Crete, Nebraska; George Albert Gregory, pioneer educator. Address: 1130 H St, Lincoln, Nebr. 68508.

GREGORY, DR. CAESAR C, b. Manchester, N.H, May 25, 13; m. 55. PSYCHOLOGY. B.A, Plymouth Teachers Col, 40; Ed.M, Harvard, 47; Ph.D.(psychol), Pa. State, 54. COUNSELING PSYCHOLOGIST, VET. ADMIN, 54-U.S.A, 42-46. Psychol. Asn. Psychotherapy; rehabilitation of mentally and emotionally ill; learning theory. Address: 1502 State Rd. 18 E, Marion, Ind. 46952.

GREGORY, PROF. CARL E, b. N.Dak, June 27, 12. BUSINESS ADMINISTRATION. A.B, Washington (Seattle), 41; A.M, Columbia, 41, D.Ed, 48. Teacher, high sch, Wash, 35-40; ed. & owner, Kodiac Shopping News, Alaska, 40-42; asst, Columbia, 45-46; prof. soc. sci, N.Y. Univ, 46-51; prof. bus. & soc. sci. & chmn. div, CALIF. STATE COL. LONG BEACH, 51-56, PROF. BUS. ADMIN, 56- Bus. consult, 42-; res, Europe & U.S.S.R, 58-59. Speaker, Nat. Coun. Admin. Res, 67. Research methodology as a college classroom teaching method. Publ: Management of intelligence, 67, Programmed study guide for management of intelligence, 67 & Instructors manual for management of intelligence, 67, McGraw. Address: Dept. of Business Administration, California State College at Long Beach, 6101 E. Seventh St, Long Beach, Calif. 90804.

GREGORY, EDWARD H(AIG), b. Summit, N.J, Dec. 10, 31; m. 53; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Park Col, 56; A.M, Pennsylvania, 57, Fels scholar, 63-64. Intern, City Phila, 57-58, mgt. analyst, 58-62, asst. to dir. commerce, 62-64; CONSULT. PUB. ADMIN. & FINANCE, J.L. JACOBS & CO, 64- Mem, Ford Found. Saudi Arabian Proj, 64-66. Soc. Pub. Admin; Int. City Mgr. Asn. Functions, organization, management and financing of state and local governments; interrelationships of governments; administration of foreign national governments. Address: 318 N. Merrill Ave, Park Ridge, Ill. 60068.

GREGORY, PROF. E(DWARD) W(ADSWORTH), JR, b. Chase City, Va, Sept. 29, 03; m. 34; c. 1. SOCIOLOGY. A.B, Virginia, 25, A.M, 26, Ph.D, 31. Asst. prof. SOCIOL, Alabama, 28-29, assoc. prof, 29-35, PROF, 35-45; Maryland, 46; RICHMOND, 46- Pres, Ala. Conf. Soc. Work, 41-42; Va. Coun. Soc. Welfare, 50-51; Richmond Area Community Coun, 51-53; mem, Va. Cmn. Aging, 62-; Va. Bd. Welfare & Insts, 63- U.S.N.R, 43-46, Lt. Comdr. Sociol. Asn. Sociological theory; family relations; social pathology. Publ: Introductory sociology; co-auth, Social control. Address: Dept. of Sociology, University of Richmond, Box 56, Richmond, Va. 23173.

GREGORY, PROF. G(USTAV) ROBINSON, Forest Mgt, see 11th ed, Phys. & Biol. Vols.

GREGORY, PROF. IAN (WALTER DE GRAVE), Psychiat, see 11th ed, Phys. & Biol. Vols.

GREGORY, DR. JOHN R(OBERT), Commun, Mass Media, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

GREGORY, PROF. PETER, b. New York, N.Y, Sept. 29, 24; m. 55; c. 2. ECONOMICS. B.A, Ohio Wesleyan, 48; Pepsi-Cola fel, Harvard, 48-51, M.A, 50, fel, 50-52, Ph.D.(econ), 57. Asst. dir. manpower resources proj, soc. sci. res. center, Puerto Rico, 53-57; vis. asst. prof. ECON, Yale, 57-58; asst. prof, MINNESOTA, MINNEAPOLIS, 58-65, ASSOC. PROF, 65- Ford Found. fel, Harvard, 59-60; vis. assoc. prof, Cornell Univ-Univ. Chile Prog. Indust. Rels, Santiago, 62-64; vis. consult, Int. Labour Off, Geneva, 66-67. Econ. Asn; Indust. Rels. Res. Asn; Asn. Latin Am. Studies. Labor markets; wage and employment theory; development of industrial labor force in industrializing societies; problems of economic development. Publ: Co-auth, Wages, productivity and industrialization in Puerto Rico, Irwin, 65; Industrial wages in Chile, Cornell, 67; Labor market in Puerto Rico, In: Labor commitment and social change. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

GREGORY, WADE F(RANKLIN), b. Hazleton, Pa, June 30, 24; m. 50; c. 3. AGRICULTURAL ECONOMICS. B.S, Pa. State, 44, M.S, 48; Gen. Ed. Bd. fel, Chicago, 53-54. Asst. agr. econ, Pa. State, 48-49; agr. economist, agr. res. serv, U.S. Dept. Agr, 49-58; res. assoc. econ, Univ. Chicago in Chile, 58-61; CHIEF agr. econ. unit, dept. econ. affairs, Orgn. Am. States, 61-63; ECON. DEVELOP. BR, ECON. RES. SERV, U.S. DEPT. AGR, 63- U.S.M.C, 42-46. Econ. Asn; Agr. Econ. Asn; Soc. Int. Develop. Economic development with special reference to the agricultural sector and the factors associated with changes in agricultural output and productivity. Publ: Agricultural taxation as a tool of development, Orgn. Am. States, 62; Policies for agricultural development, Ill. Agr. Econ, 64; Agricultural development in Greece, Mexico and Taiwan, CENTO Conf, 67. Address: 4620 N. 23rd St, Arlington, Va. 22207.

GREGORY, PROF. WILBUR S(MITH), b. Johnstown, Pa, Oct. 6, 12; m. 44. PSYCHOLOGY. A.B, Muskingum Col, 33; M.A, Syracuse, 36, Ph.D.(psychol), 37. Instr. psychol, Nebraska, 37-41, asst. prof, 41-42, spec. adv. freshmen, 37-40, guid. consult, 40-42; head counseling & testing servs, New Mexico, 46-47; assoc. prof. PSYCHOL, REDLANDS, 47-51, PROF, 51- U.S.A.A.F, 42-46, Res, 46-, Maj. AAAS; fel. Psychol. Asn. Influence on school and college adjustment; test construction and validation; counseling methods. Publ: Interests in relation to college adjustment; Measurement of motives and studies of their adjustive functions; Relation of legal attitudes, beliefs and behaviors. Address: Dept. of Psychology, University of Redlands, Redlands, Calif. 92373.

GREGORY, PROF. W(ILLIAM) EDGAR, b. Steelville, Mo, Nov. 13, 10; m. 37, 56; c. 1. PSYCHOLOGY. A.B, Colo. Col, 33; B.D, Chicago Theol. Sem, 36; Ph.D.(psychol), California, 55; Inst. Genetic Epistemology, Geneva, Switz, 64-65. Dir. ministry serv. personnel & vet, San Francisco Coun. Churches, 45-46; dir. res, North. Calif-Nev. Coun. Churches, 47-48; assoc. prof. PSYCHOL. UNIV. OF THE PACIFIC, 48-58, PROF, 58-, CHMN. DEPT, 61- Prof, Univ. Maryland Abroad, Italy, 65. Consult, San Joaquin County Schs, Stockton, Calif, 48-49; Calaveras County Schools, 56-58; Lodi Calif. Elem. Sch. Dist, 60-62; Supermold Co, 64. U.S.A, 40-45, Chaplain. AAAS; Psychol. Asn; Sociol. Asn; Anthrop. Asn; Soc. Appl. Anthrop; Soc. Sci. Study Relig. Psychology of personality and religion; social psychology. Publ: Authoritarianism and authority & Psychology of religion, J. Abnorm. & Soc. Psychol; Life is therapeutic. Ment. Hyg. Address: 976 W. Mendocino Ave, Stockton, Calif. 95204.

GREIF, PROF. EDWIN CHARLES, b. New York, N.Y, June 28, 15; m. 48; c. 2. MARKETING. B.A, Pennsylvania, 36; M.S, N.Y. Univ, 47; Texas, 48-49. Instr. MKT, Toledo, 47-48; asst. prof, Texas, 48-50; PROF, VERMONT, 50-, DIR. VT. COUN. ECON. ED, 66- Qm.C, 41-43, Sgt. Marketing management; selling function and retail systems. Publ: Modern salesmanship: principles & problems, 58 & Miracle of jackpot selling, 60, Prentice-Hall; Basic problems in marketing management, Wadsworth, 67. Address: Dept. of Economics & Business Administration, 228 N. Old Mill, University of Vermont, Burlington, Vt. 05401.

GREIFER, DR. JULIAN L(EON), Sociol, see 10th ed, Soc. & Behav. Vols.

GREIG, PROF. W(ILLIAM) SMITH, b. Van Buren, Ark, Mar. 19, 25; m. 55; c. 2. AGRICULTURAL ECONOMICS. B.S, Arkansas, 48; M.S, Cornell, 51, Ph.D, 55. Mem. staff, agr. exten. serv, Arkansas, 48-49; mkt. res. div, agr. mkt. serv, U.S. Dept. Agr, 55-57; ASSOC. PROF. AGR. ECON, MICH. STATE, 57- Consult, Weitz-Hettelsater Engs, Brazil & Columbia, 63-65; Stanford Res. Inst, Argentina, 67. U.S.N, 43-46, 51-53. Agr. Econ. Asn; Inst. Food Tech. Market development and research; costs and efficiency. Publ: Locational effects of new technologies in fruit and vegetable processing, Mich. State Univ, 64; co-auth, Marketing facilities for grain and tuberous crops—Columbia, Weitz-Hettelsater Eng, Kansas City, 65; and Feasibility for expansion—port of Behia Blanca, Argentina, Parsons, Brinkerhoff, Quade & Douglas, 67. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48824.

GREINER, PROF. DAVID S(TEPHENSON), b. Roswell, N.Mex, Nov. 5, 15. CLINICAL PSYCHOLOGY. B.A, Los Angeles State Col, 54, M.A, 56; Ph.D, Denver, 59. Psychologist, Springfield State Hosp, Sykesville, Md, 57-58; res. psychologist, dept. prev. med, California, Los Angeles, 61-65; PROF. PSYCHOL, WOODBURY COL, 65- Practicing psychologist, 59- Pres, Bishop Gooden Home, Los Angeles, 61. U.S.N.R, 41-45. Psychol. Asn; N.Y. Acad. Sci. Motivations, psychodynamics, treatment and perception of alcoholism. Publ: Selective forgetting in the alcoholic, Yale Quart. J. Studies Alcohol. Address: Apt. 7-A-South, 1424 N.Crescent Heights Blvd, Los Angeles, Calif. 90046.

GRENIER, PROF. FERNAND, b. East Broughton, Que, Mar. 31, 27; m. 53; c. 2. GEOGRAPHY. B.A. & Ph.B, Laval, 48, M.A, 50, dipl, 52; dipl, Paris, 55. Prof. hist. & geog, Petit Séminaire de Québec, 50-53; Can. Govt. scholar, France, 53-55; assoc. prof. GEOG, LAVAL, 55-59, PROF, 59-, CHMN, 61-, DEAN FACULTY LETTERS, 67- Consult, Can. Resources Tomorrow Conf, 61. Mem. Can. cmt, Int. Geog. Union, 61, cor. mem. cmn. appl. geog, 64-; cmt. geog. appl. to develop, cmn. geog, Pan Am. Inst, 65-; nat. adv. cmt. geog. res, Can. Govt, 66-70. Can. Asn. Geog.(pres, 64-65); Can. Asn. Univ. Teachers; Soc. French Geog. Historical geography of new France; regional development; contribution of geography and geographers to development of underdeveloped areas; geography of population; teaching of geography. Pub: Papiers Contrecoeur et Autres Documents Concernant le Conflit Anglo-Français sur l'Ohio de 1745 à 1754; co-auth, Atlas du monde contemporain, Hachette, Paris & Montreal, 67. Address: Faculty of Letters, Laval University, Quebec 10, Que, Can.

GRENIER, DR. JUDSON A, U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GRENNELL, PROF. ROBERT L(OVELL), b. Irving, N.Y, July 28, 10; m. 41; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Pa. State, 34; M.A, Cornell, 37; Ed.D.(psychol), N.Y. Univ, 50. Teacher & psychologist, pub. schs, N.Y, 34-42; voc. adv. & psychologist, regional off, Vet. Admin, 46-47; PROF. ED, STATE UNIV. N.Y. COL. FREDONIA, 47- U.S.A, 42-46; U.S.A.F.R, 46-, Lt. Col. AAAS; Psychol. Asn; Nat. Soc. Study Ed. Psychological factors pertinent to learning in children of school age. Address: State University of New York College at Fredonia, Fredonia, N.Y. 14063.

GRESH, PROF. L(EVI) D(AVID), b. Reading, Pa, Jan. 19, 99; m. 24. SOCIAL SCIENCE. A.B, Gettysburg Col, 21; A.M, Harvard, 31; fel, California, 32-34, Ph.D, 34. State dir. student work prog, Nat. Youth Admin, Pa, 35-42; regional field officer, War Manpower Cmn, 42-43; dep. for German ed. affairs, Off. U.S. Mil. Govt, Germany, 46-48; spec. lectr. comp. ed, Pennsylvania, 48-49; PROF. POLIT. SCI, KUTZTOWN STATE COL, 49-, CHMN. DEPT, 62- Mem, Nat. Coun. Soc. Studies. U.S.A, 43-46, Lt. Col. Political theory and public law. Address: Dept. of Government, Kutztown State College, Kutztown, Pa. 19530.

GRESSENS, DR. O(TTO), Econ, see 10th ed, Soc. & Behav. Vols.

GRETH, PROF. MORRIS S(AMUEL), b. Berks Co, Pa, Apr. 22, 95; m. 28; c. 1. SOCIOLOGY. Keystone State Norm. Sch, Pa, 13-16; A.B, Muhlenberg Col, 22, Litt.D, 53; A.M, Pennsylvania, 24, Ph.D, 30; B.D, Phila. Theol. Sem, 26. Pastor, St. Lukes Lutheran Church, West Collingswood, N.J, 25-31; prof. sociol. & philos, Albright Col, 30-46; prof. SOCIOL. & head dept, MUHLENBERG COL, 46-65, EMER. PROF, 65-, acting pres. col, 52-53. Fel. Sociol. Asn. Leadership training through local church agencies; inner mission services on the territory of the Ministerium of Pennsylvania; family and social change. Address: 673 Webster Ave, Allentown, Pa. 18103.

GRETHER, PROF. E(WALD) T(HEOPHILUS), b. New Philadelphia, Ohio, Mar. 27, 99; m. 25; c. 3. ECONOMICS. A.B, Nebraska, 22, LL.D, 50; A.M, California, 23, Ph.D, 24; hon. Dr.(econ), Stockholm Sch. Econ, Sweden, 59; hon. LL.D, California, Berkeley, 67. Asst. prof. ECON, Nebraska, 25-26; CALIFORNIA, BERKELEY, 26-30, assoc. prof, 30-39, Flood Found. prof, 39-66, EMER. FLOOD FOUND. PROF, 66-, EMER. DEAN, SCH. BUS. ADMIN, 62-, acting dean col. commerce, 34-36, 41, dean, 41-43, sch. bus. admin, 43-61, grad. sch. bus. admin, 55-61. Vis. prof, Pennsylvania, 38-39; dir, Nat. Security Resources Bd, D.C, 48-49. Consult, div. rev, Nat. Recovery Admin, 35-36; U.S. Dept. Justice, D.C, 57-58. Faculty ed, Calif. Mgt. Rev, 62- Mem, Attorney-General's Nat. Cmt. Study Antitrust Laws, 54-55; chmn, Gov. Cmn. Study Unemploy. Ins. Act, 51-53. Mem. bd. trustees, Mkt. Sci. Inst, Phila, 62- Econ. Asn; Mkt. Asn.(managing ed, J. Mkt, 38-40, ed. in chief, 41-43; Converse award, 55); Regional Sci. Asn; Name Soc. Domestic trade; price control; regional economics; antitrust enforcement; marketing and public policy. Publ: Marketing in the American economy; Steel and steel using industries of California; Marketing and public policy, Prentice-Hall, 66. Address: 824 San Diego Rd, Berkeley, Calif. 94707.

GRETHER, DR. WALTER F(RANK), Psychol, see 11th ed, Phys. & Biol. Vols.

GRETTON, OWEN C, b. Bloomfield, N.J, Mar. 2, 17; m. 38; c. 3. ECONOMICS. A.B, Brown, 38. Jr. economist, statist. res. div, U.S. BUR. CENSUS, 40-42, economist & chief metals & metal prod. sect, INDUST. DIV, 42-50, asst. chief, 50-67, CHIEF, 67- Econ. Asn; Statist. Asn; Mkt. Asn. Statistics. Publ: What's new in the 1967 census of manufactures; The 1967 edition of the census bureau's industrial statistics program. Address: Federal Office Bldg. No. 4, Washington, D.C. 20233.

GREVEN, DR. PHILIP JOHANNES, JR, Early Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GREY, DR. ALAN H(OPWOOD), b. Auckland, N.Z, Oct. 8, 32; U.S. citizen; m. 57; c. 1. GEOGRAPHY. B.A, Brigham Young, 59; Woodrow Wilson fel, Wisconsin, 59, M.A, 60, Ph.D.(geog), 63. Acting instr. GEOG, Wisconsin, summer, 63; ASST. PROF, Western Illinois, 63-64; BRIGHAM YOUNG, 64- New Zealand Army, 54-56. Asn. Am. Geog. Historical geography of the western United States; land form geography; climatology; regional geography of Australasia. Publ: Co-auth, Geographic view of the Sino-Soviet dispute, Brigham Young, winter 66. Address: Dept. of Geography, Brigham Young University, Provo, Utah 84601.

GREY, DR. ALAN L, b. New York, N.Y, May 30, 19; m. 41; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 39; M.A, Columbia, 40; fel, Rockefeller Found, 41-42; Ph.D.(psychol), Chicago, 49. Asst. prof. PSYCHOL, Teachers Col, Columbia, 51-55, assoc, 55-61; Fulbright grant & lectr, Allahabad, 62-63; ASST. PROF, FORDHAM, 63- Sociol. Asn; Psychol. Asn. Culture and personality. Address: Dept. of Psychology, Fordham University, Rose Hill Campus, Bronx, N.Y. 10458.

GREY, PROF. ARTHUR L(ESLIE), b. San Jose, Calif, Jan. 18, 22; m. 47; c. 2. URBAN PLANNING, ECONOMICS. A.B, San Jose State Col, 43; Ph.D. (econ), California, 54. Asst. prof. econ, Calif. Inst. Tech, 54-56; Southern California, 56-59, assoc. prof, 59-64, chmn. grad. prog. city planning, 60-64; PROF. URBAN PLANNING & CHMN. DEPT, WASHINGTON (SEATTLE), 64- Consult. & v.pres, Real Estate Res. Corp, 56-63. Mem, State Scholar. Cmn, Calif, 60-; chmn. Los Angeles Citizens Urban Renewal Adv. Cmt, 61-U.S.A, 43-46, Sgt. Econ. Asn; Inst. Planners; Regional Sci. Asn. Urban planning; urban economic structure. Publ: Co-auth, People and downtown: form, attitude, use; auth, Los Angeles: urban prototype, Land Econ; co-auth, Marginal efficiency of capital and investment programming, Econ. J. Address: Dept. of Urban Planning, University of Washington, Seattle, Wash. 98105.

GREY, DR. DAVID L(ENNOX), b. Chicago, Ill, Aug. 14, 35; m. 59; c. 2. JOURNALISM, COMMUNICATION. B.A, Michigan, 57; M.A, Stanford, 60; Ph.D.(journalism), Minnesota, 66. Copy ed. & reporter, Ann Arbor News, Mich, Toledo Blade, Ohio & Wall St. Jour, 57-62; from asst. journalism to instr, Minnesota, 62-65; from instr. to asst. prof, Northwestern, 65-67; ASST. PROF. COMMUN, STANFORD, 67- Asn. Ed. in Journalism; Asn. Pub. Opinion Res; Law & Society Asn. Press and society and government and the press; newsman behavior and newsman-news source relations; economics of the mass media. Publ: The Supreme Court and the news media, Northwestern Univ, 68; Use of ideal types in newsman studies, Journalism Quart, spring 67; Interviewing at the court, Pub. Opinion Quart, summer 67. Address: Dept. of Communication, Stanford University, Stanford, Calif. 94305.

GREY, PROF. LOREN, Psychol, see 10th ed, Soc. & Behav. Vols.

GRIB, DR. THOMAS F(ELIX), b. Chicago, Ill, Aug. 25, 33; m. 60; c. 2. PSYCHOLOGY. B.A, Loyola (Ill), 55, M.A, 59, Ph.D.(psychol), 61. Staff psychologist, Mercy Hosp, Chicago, Ill, 60-61; asst. prof. PSYCHOL, ST. NORBERT COL, 61-64, ASSOC. PROF, 64-, CHMN. DEPT, 67- Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Psychological measurement; psychotherapy; experimental design; small group discussion techniques. Publ: Co-auth, Teaching process as a learning experience: the experimental use of student led discussion groups, St. Norbert Col, 68 & Pattern analysis, Brit. J. Statist. Psychol, 60. Address: Dept. of Psychology, St. Norbert College, West De Pere, Wis. 54178.

GRIBBONS, PROF. WARREN D(AVID), b. Worcester, Mass, June 23, 21; m. 47. PSYCHOLOGY, GUIDANCE. A.B, Boston, 55; fel, Harvard, 56-57, Ed.D.(counseling psychol), 59. Res. asst. soc. studies, Harvard, 56-57; instr. psychol, Regis Col.(Mass), 57-59; asst. prof. ed. & guid, Clark, 59-62; assoc. prof. PSYCHOL, REGIS COL.(MASS), 62-66, PROF, 66- U.S. Off. Ed. res. grants, 61-72. Consult, Ed. Testing Serv, 58-59. U.S.A.A.F, 42-45, Sgt. Psychol. Asn; Personnel & Guid. Asn. Career development of men and women. Publ: Co-auth, Career development, U.S. Off. Ed, 66 & Emerging careers, Teachers Col. Press, 68; articles in Personnel & Guid. J. & J. Counseling Psychol. Address: Dept. of Psychology, Regis College, Weston, Mass. 02193.

GRICE, DR. G(EORGE) ROBERT, b. Topeka, Kans, Aug. 16, 16; m. 41. PSYCHOLOGY. B.A, Washburn Col, 39; M.A, Iowa, 41, Ph.D.(psychol), 47. Instr. PSYCHOL, Illinois, Urbana, 47-48, asst. prof, 48-51, assoc. prof, 51-57, prof, 57-68; DISTINGUISHED PROF, NEW MEXICO, 68- U.S.A.A.F, 42-46. Psychol. Asn; Psychonomic Soc. Psychology of learning and motivation. Address: Dept. of Psychology, University of New Mexico, Albuquerque, N. Mex. 87106.

GRIEB, DR. KENNETH J, Latin Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GRIER, DR. JAMES BROWN, b. Charlotte, N.C, July 26, 36; m. 63; c. 1. PSYCHOLOGY. B.S, N.C. State, 58, M.S, 60; Ph.D.(psychol), Louisville, 65. ASST.PROF. PSYCHOL, NORTHERN ILLINOIS, 65- Psychol. Asn; Statist. Asn; assoc. Acoustical Soc. Development of quantitative and functional models for human performance. Publ: Reaction time to tone off, Psychonomic Sci, 66; co-auth, Probability matching in concept identification, J. Exp. Psychol, 66; co-auth, Prenatal auditory imprinting in chickens, Science, 67. Address: Dept. of Psychology, Northern Illinois University, De Kalb, Ill. 60115.

GRIER, DR. MARY E(LIZABETH) (MRS. RICHARD WALLEN), b. Waukesha, Wis, June 27, 12; m. 56. CLINICAL PSYCHOLOGY. A.B, Chicago, 36, M.S, 38, fel, 41-43, Ph.D.(human develop), 47. Res. assoc, div. psychiat, Chicago Med. Sch, 43-47; supv. clin. psychologist, Vet. Admin. Hosp, Hines, Ill, 47-54; asst. chief, Vet. Admin. Res. Hosp, Chicago, 54-56; clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Cleveland, Ohio, 56-64, staff psychologist, 64-68, coordinator day treatment center, 65-67; CLIN. PSYCHOLOGIST, AREA C COMMUNITY MENT. HEALTH CLIN, WASH, D.C, GEN. HOSP, DEPT. PUB. HEALTH, D.C, 68- Asst. prof, div. neurol. & psychiat, med. sch, Northwestern, 54-56. Psychol. Asn; Acad. Psychother; Soc. Proj. Tech. & Personality Assessment. Milieu and family therapy; community mental health; projective techniques; group psychotherapy. Publ: Co-auth, Alcohol as a preventive of experimental neuroses, Quart. J. Studies Alcohol; Effects of cerebral electroshock on experimental neuroses in cats, J. Psychiat; Relation of family position to attitudes in group therapy, J. Clin. Psychol. Address: 301 G St. S.W, Washington, D.C. 20024.

GRIESS, PROF. PHYLLIS RICE, b. Nebraska City, Nebr, Sept. 17, 00; m. 31. GEOGRAPHY. A.B, Smith, 22; fel, Nebraska, 23-25, A.M, 25; Ph.D.(geog), Pa. State, 48. Asst. instr. GEOG, Nebraska, 23-29; prof, Winthrop Col, 30-31; from instr. to asst. prof, PA. STATE, 43-48, assoc. prof, 48-62, prof, 62-66, EMER. PROF, 66- Ed, Prfnl. Geogr, 60-62. Asn. Am. Geog. Minerals, especially coal; petroleum industry of Latin American countries; economic geography of Latin America and Asia; coal mining industry of Pennsylvania. Publ: Co-auth, The world's nations: an economic and regional geography, Atlas of Pennsylvania coal and coal mining, part I, bituminous coal, part II, anthracite & Fuel competition in Pennsylvania's electric generating industry. Address: Dept. of Geography, 438 Deike Bldg, Pennsylvania State University, University Park, Pa. 16802.

GRIESSMAN, DR. BENJAMIN EUGENE, b. Spartanburg, S.C. Aug. 12, 34; m. 56; c. 3. SOCIOLOGY, ANTHROPOLOGY. B.A, Tenn. Temple Col, 56; M.A, Baylor, 58; B.D, New Orleans Baptist Theol. Sem, 62; Ph.D.(sociol), La. State, 66. Res. asst. sociol, La. State, 63-66; ASST. PROF. SOCIOL. & ANTHROP, N.C. STATE, 66-, PROJ. DIR. CENTER OCCUP. ED. & ASSOC. FORESTRY, 67- Instr, Col. William & Mary, summer, 65; participant, Nat. Teacher Training Inst. Adult Basic Ed, 67; report to subcmt. training, Nat. Manpower Adv. Cmn, 67. Sociol. Asn; Rural Sociol. Soc; Anthrop. Asn; African Studies Asn. Publ: Co-auth, Factors related to the communication of forest fire prevention messages in selected rural communities, Exp. Sta, La. State Univ. 67 & Forestry jobs in the rural South, Am. Forests, 68; auth, An approach to understanding riot and urban unrest, J. Human Rels, 68. Address: Dept. of Sociology & Anthropology, North Carolina State University, Raleigh, N.C. 27607.

GRIEVES, HOWARD C, b. Brooklyn, N.Y, Dec. 9, 10; m. 35; c. 2. ECONOMICS, STATISTICS. A.B, Columbia, 33; Brookings Inst, 34-35. Asst. dir. res. & statist, Works Progress Admin, 36-40; dir. surv. standards div, War Prod. Bd, 40-45; chief economist, U.S. Bur. Census, 45-47, asst. dir. econ. fields, 47-65, dep. dir, 65-67; RETIRED. President's award for distinguished civilian serv, 65. Fel. Statist. Asn. Address: 1001 S. Alhambra Circle, Coral Gables, Fla. 33146.

GRIFF, PROF. MASON, b. Waltham, Mass, Sept. 18, 24. SOCIOLOGY. B.A, Tulane, 51; M.A, Stanford, 52; Ph.D, Chicago, 58. Instr. sociol, Indiana, 55-56; lectr, Wayne, 56-57; instr, Washington (Seattle), 57-58; asst. prof, Montana State, 58-59; vis. asst. prof, Brandeis, 59-60; asst. prof. Montana, 60-63; vis. prof, Dartmouth Col, 64; PROF. SOCIOL. & CHMN. DEPT. SOCIOL. & ANTHROP, SOUTHEAST. MASS. TECH. INST, 64- U.S.A, 43-46. Sociol. Asn. Sociology of psychology and of art; population problems; occupations and professions. Publ: Advertising; Mass society and culture; Sociology of the film. Address: Dept. of Sociology & Anthropology, Southeastern Massachusetts Technological Institute, North Dartmouth, Mass. 02747.

GRIFFENHAGEN, EDWIN O, Pub. Admin, see 10th ed, Soc. & Behav. Vols.

GRIFFIN, ALBERT, b. Tampa, Fla, Aug. 16, 08; m. 32; c. 2. ECONOMICS. B.S. Pennsylvania, 30, A.M, 33. Instr. finance, Wharton Sch. Commerce & Finance, Pennsylvania, 30-39; asst. prof. bus. admin, Emory, 39-43, chmn. dept, econ, 41-46, assoc. prof. bus. admin, 43-58, secy. sch. bus. admin, 46-61, acting dean, lower div, col. arts & sci, 52-53, prof. bus. admin, 58-61; v.pres, EXCHANGE NAT. BANK, 61-65, PRES. & DIR, 65- Sears, Roebuck & Co. Found. Econ. Ed. fel, 53. Finance Asn. Financial history; financial consequences of Florida real estate boom; banking development in Florida. Address: 499 W. Lake Otis Dr, Winter Haven, Fla. 33880.

GRIFFIN, PROF. A(RTHUR) G(WYNN), b. Peachland, N.C, Feb. 17, 01. ECONOMICS. A.B, North Carolina, 21, A.M, 23; Chicago, 30-31, 33, 36. Prof. econ. Georgetown Col, 25-28; assoc. prof, Furman, 28-42; sr. training consult. U.S. Civil Serv. Cmn, 43; economist, War Labor Bd, Ga, 43-45; lectr. ECON, North Carolina, 46; assoc. prof, DAVIDSON COL, 46-51, prof, 51-67, EMER. PROF, 67- Chmn. wage bd. West. S.C, Nat. Recovery Admin, 33-34. Econ. Asn. Public finance. Address: Dept. of Economics & Business Administration, Davidson College, Davidson, N.C. 28036.

GRIFFIN, PROF. CLARE E(LMER), b. Allegan, Mich, Mar. 22, 92; m. 17; c. 2. ECONOMICS. A.B, Albion Col, 14; fel, Illinois, 15-16, A.M, 16, Ph.D, 18; Chicago, 17; Hopkins, 17-18. Assoc. prof. commerce & indust, MICHIGAN, 19-25, prof. mkt, 25-43, dean sch. bus. admin, 27-43, TAYLOR PROF. BUS. ECON, 43- Consult. Economist, Team Valuation Elec. Utilities Philippines, U.S. State Dept, 64-65. U.S.A, 18-19, Lt. Econ. Asn; Mkt. Asn. Principles of foreign trade; life history of automobiles; enterprise in a free society. Publ: The free society, Am. Enterprise Inst, 65. Address: School of Business Administration, University of Michigan, Ann Arbor, Mich. 48104.

GRIFFIN, DR. DOROTHY PARK, b. Chicago, Ill, Apr. 25, 03; m. 53. CLINICAL PSYCHOLOGY. A.B, Cotner Col, 22; M.A, Nebraska, 27, Wolf fel, 30-31; Ph.D, 37; summers, Wisconsin, 44, 46, 47, 48, Mexico, 45. Acting head dept. philos. & psychol, Tarkio Col, 31-32; teacher & prin, high schs, Nebr, 33-46; teacher psychol, Stephens Col, 46-48; head dept. psychol. & philos, Meredith Col, 48-51; acting dir. div. psychiat. & psychol. serv, State Bd. Pub. Welfare, N.C, 51-54, dir. div. psychol. serv, 54-67; CHIEF PSYCHOL. SERV. SECT, STATE DEPT. PUB. WELFARE, N.C, 67- Vis. lectr, N.C. State Col, 50. Consult, Raleigh Ment. Hyg. Clin, 49-51. Secy, N.C. Ment. Health Coun, 51-; mem, N.C. Coun. Ment. Retardation, 67- Psychol. Asn; Interam. Soc. Psychol; Int. Coun. Psychol.(treas, 55-59). Mental health; projective techniques; mental retardation. Publ: Psychometric scales for the Rorschach popular response, J. Clin. Psychol; Traveling clinics and the retarded child: the North Carolina story, Am. J. Ment. Deficiency; Movement responses and creativity, J. Consult. Psychol. Address: 3701 Western Blvd, Raleigh, N.C. 27606.

GRIFFIN, DR. JAMES B(ENNETT), b. Atchison, Kans, Jan. 12, 05; m. 36; c. 3. ANTHROPOLOGY, ARCHAEOLOGY. Ph.B, Chicago, 27, M.A, 30, Ph.D.(anthrop), Michigan, 36. Res. assoc, MUS. ANTHROP, MICHIGAN, 36-37, asst. curator, 37-42, assoc. curator, 42-45, CURATOR, 45-, DIR, 46-, PROF. ANTHROP, UNIV, 49-, assoc. prof, 45-49. Fulbright fel, Copenhagen, 63-64. Nat. Acad. Sci; fel. AAAS.(v.pres, sect. anthrop, 53; Viking Fund medal, 57); fel. Anthrop. Asn; Soc. Am. Archaeol.(asst. ed, 36-46; v.pres, 45, pres, 51, secy, 52). Prehistoric cultures of Eastern United States; cultural connection of the Eastern United States with the Southwest and Mexico; northern Eurasian origins of North American cultures; neutron activation analysis of trace elements in prehistoric artifacts and identification of their sources. Publ: Ed, & contrib, Archaeology of Eastern United States; Fort Ancient Aspect, its cultural and chronological position in Mississippi Valley archaeology; co-auth, Archaeological survey in the lower Mississippi Alluvial Valley, Papers Peabody Mus. Am. Archaeol. Ethnol. Address: Museum of Anthropology, University Museums Bldg, Ann Arbor, Mich. 48104.

GRIFFIN, PROF. JOHN A(NSLEY), Sociol, see 10th ed, Soc. & Behav. Vols.

GRIFFIN, PROF. JOHN I, b. New York, N.Y, Oct. 18, 16; m. 66. STATISTICS. A.B, Georgetown, 34, Presidential fel. & A.M, 35; Ph.D.(econ), Columbia, 39. Instr, Brooklyn Col, 37-40; statistician, Bur. Labor Statist, 45-46; from asst. prof. to assoc. prof. STATIST, SCH. BUS, CITY UNIV. NEW YORK, 46-62, PROF, 62- Res. assoc, Nat. Indust. Conf. Bd, 39; dir. N.Y. Regional Statist. Center, 66-67. U.S.A, 42-45. Econ. Asn; Am. Statist. Asn; Economet. Soc; Inst. Math. Statist; Royal Statist. Soc; Statist. Soc. Australian. Statistics as applied in economics and police administration. Publ: Port of New York; Statistics-methods and applications; co-auth, Fact Book N.Y. metropolitan region, N.Y. City Coun. Econ. Ed, 65. Address: 120 E. 34th St, New York, N.Y. 10016.

GRIFFIN, JOHN W(ALLACE), b. Connersville, Ind, Nov. 8, 19; m; c. 5. ARCHAEOLOGY, ANTHROPOLOGY. M.A, Chicago, 46. Archaeologist, Fla. Park Serv, 46-53; acting asst. prof. anthrop, Fla. State, 53-54; exec. historian, St. Augustine Hist. Soc, 54-58; regional archaeologist, NAT. PARK SERV, 58-67, CHIEF SOUTHEAST ARCHAEOL. CENTER, 67- Fel. Anthrop. Asn; Soc. Am. Archaeol. Prehistoric and historic archaeology of eastern United States; ecological anthropology. Publ: Co-auth, Here they once stood; ed, Florida Indian and his neighbors; auth, Prehistoric Florida, Archaeol. East. U.S. Address: 2922 Victoria Circle, Macon, Ga. 31204.

GRIFFIN, LEONARD L(EE), b. Raymond, Nebr, Jan. 26, 24; m. 48; c. 2. PHYSIOLOGICAL PSYCHOLOGY. A.B, George Washington, 50; M.A, Nebraska, 52; Colorado, 55-56. Psychologist, N.Mex. State Hosp, Las Vegas, 52-54, admin. asst. ther. prog, 54-55; exp. psychologist, U.S. DEPT. AIR FORCE, WRIGHT-PATTERSON AIR FORCE BASE, OHIO, 56-60, HUMAN ENG. PSYCHOLOGIST, 60- U.S.A.A.F, 42-46; U.S.A.R, 46-, Capt. Psychol. Asn. Psychodiagnostic testing and test battery composition; differential effects of psychopharmacological therapy for behavior disorders; human engineering in the design of complex systems. Publ: Experimental analysis of hunger drive satiation procedures; Effects of chlorpromazine in psychiatric therapy; co-auth, Assessment of crew station design and pilot performance, Tech. Documentary Report, Aeronaut. Systs. Div, U.S. Air Force, 4/63. Address: 15 Fair Ave, Medway, Ohio 45341.

GRIFFIN, PROF. MARVIN A, Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GRIFFIN, PROF. PAUL F(RANCIS), b. Pittsburgh, Pa, Aug. 2, 20; m. 44; c. 3. GEOGRAPHY. A.B, Pittsburgh, 41, M.L, 42; M.A, Columbia, 51, Ph.D, 52. Instr. geog, Stanford, 48-50; Columbia, 50-52; asst. prof, Stanford, 52-57, assoc. prof, 57-60; PROF. GEOG. & CHMN. DEPT. SOC. SCI, ORE. COL. ED, 60- Consult, Santa Clara County, Calif, 58-59; Nat. Defense Ed. Act Geog. Inst. for Inst. Dirs, U.S. Off. Ed, 66-67. U.S.N, 42-45. Asn. Am. Geog; Nat. Coun. Geog. Ed. Land use planning; economic geography; regional geography of Anglo America. Publ: California, the new empire state: a regional geography; Anglo America: a regional geography of the United States and Canada; Introductory college geography. Address: Dept. of Social Science, Oregon College of Education, Monmouth, Ore. 97361.

GRIFFIN, PROF. WILLIAM M(ELL), Polit Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

GRIFFITH, PROF. BARTON L, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

GRIFFITH, DR. BELVER C(ALLIS), b. Hampton, Va, Mar. 28, 31; m. 65; c. 2. PSYCHOLOGY. B.A, Virginia, 51; M.A, Connecticut, 53, Ph.D.(psychol), 57. Asst. psychol, Yale, 51-52; Connecticut, 54-56; mem. tech. staff, Bell Tel. Labs, 56-57; exten. faculty, N.J. State Col.(Trenton), 59; instr, Douglass Col, Rutgers, 60-61; assoc. dir. & prin. investr, NAT. SCI. FOUND. PROJ. SCI. INFO. EXCHANGE IN PSYCHOL, AM. PSYCHOL. ASN, 61-66, DIR. & PRIN. INVESTR, 66- Res. asst, Edw. R. Johnstone Training & Res. Center, 57-62, asst. dir. teaching mach. proj, 60-62; assoc, Annenberg Sch. Commun, Univ. Pennsylvania, 66-67; lectr, Drexel Inst. Consult, Center Appl. Ling, 66- Psychol. Asn; Psychonomic Soc. Verbal behavior; social science of science; scientific communication. Publ: Co-auth, Scientific communication as a social system, Science, 9/67; auth, Use of verbal mediation in concept formation by retarded subjects at different intelligence levels, Child De-

velop; co-auth, Discrimination of speech sounds within and across phoneme boundaries, J. Exp. Psychol. Address: American Psychological Association, 1200 17th St. N.W, Washington, D.C. 20036.

GRIFFITH, DR. CHARLES RAY, b. Bridgeport, Ohio, June 7, 27; m. 59; c. 1. CULTURAL ANTHROPOLOGY. B.A, Ohio State, 50; Ph.D.(anthrop), Harvard, 60. Res. asst. anthrop, human rels. area files, Yale, 55-56; soc. scientist, N.Mex. Dept. Pub. Health, 59-64; ASSOC. PROF. anthrop. & ed, New Mexico, 64-67; ANTHROP, NORTHERN ARIZONA, 67- Consult, Nat. Inst. Ment. Health res. grants, New Mexico Highlands, 61-65 & McKinley Family Consult. Serv, Inc, N.Mex, 63-68; div. ment. health, N.Mex. Dept. Pub. Health, 64-68; Kirschner Assocs, N.Mex, 66-67. U.S.N, 45-46. Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop. Medical and psychological anthropology; intercultural marriage and acculturation among Navajo Indians; community studies in fluoridation; alcoholism; mental health; acculturation. Publ: Co-auth, Population genetics and social anthropology, Cold Spring Harbor Symposia Quant. Biol, 50, People of Rimrock, Harvard, 66 & Developing mental health programs in areas lacking professional facilities: New Mexico, Community Ment. Health J, Vol. 2, No. 2. Address: Dept. of Anthropology, Northern Arizona University, Flagstaff, Ariz. 86001.

GRIFFITH, DR. COLEMAN R(OBERTS), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

GRIFFITH, PROF. E(DWIN) C(LAYBROOK), b. Hague, Va, May 24, 15; m. 40; c. 2. ECONOMICS. A.B, Hampden-Sydney Col, 36; M.A, Virginia, 39, Ph.D. (econ), 40. Asst. prof. ECON, Georgia, 40-42, assoc. prof, 42-46; WASHINGTON & LEE, 46-50, PROF, 50-, HEAD DEPT, 59- Pres, Stonewall Jackson Hosp. Labor arbitrator, Fed. Mediation & Conciliation Serv, 48-; summers, participant, London Sch. Econ, 53; prof, Va. Mil. Inst, 63-67. Mem. sch. bd, Lexington, 60- Econ. Asn. Economic systems; labor relations. Publ: Capitalism and deficit financing, South. Econ. J, 44; Labor unions and monopoly, Labor Law J; Arbitration awards, In: Labor arbitration awards. Commerce Clearing House. Address: Dept. of Economics, Washington & Lee University, Lexington, Va. 24450.

GRIFFITH, PROF. ERNEST S(TACEY), b. Utica, N.Y, Nov. 28, 96; m. 29; c. 5. POLITICAL SCIENCE & ECONOMY. A.B, Hamilton Col, 17; Rhodes scholar, Oxford, 17, Ph.D, 25; hon. Litt.D, W.Va. Wesleyan Col, 57; L.H.D, Hamilton Col, 58. Warden, univ. settlement, Liverpool, 23-28, hon. lectr. soc. sci, 26-28; assoc. prof. polit. sci, Syracuse, 28-29, prof. polit. sci. & dean lower div, 30-35; vis. prof. govt, Harvard, 29-30; prof. polit. sci. & dean grad. sch, American Univ, 35-40; dir. legis. ref. serv, Library of Cong, 40-58; dean, Sch. Int. Serv, AMERICAN UNIV, 58-65, EMER. DEAN, 65- Lectr, Swarthmore Col, 41; Stokes lectr, N.Y. Univ, 51; vis. prof, Oxford, 51-52; Fulbright vis. prof, Int. Christian Univ, Tokyo & Rikkyo Univ, Japan, 66-67. Mem, U.S. nat. cmn. UNESCO, 62-67. Polit. Sci. Asn.(v.pres, 58-59); Soc. Pub. Admin. Municipal problems; history and development of American city government; comparative government. Publ: Impasse of democracy; Congress: its contemporary role; American system of government. Address: 1941 Parkside Dr. N.W, Washington, D.C. 20012.

GRIFFITH, DR. RICHARD M(ARION), b. Paducah, Ky, Sept. 2, 21; m. 42; c. 2. PSYCHOLOGY. B.S, Kentucky, 43, M.A, 47, Ph.D.(psychol), 50. From clin. res. psychologist to CHIEF RES. PSYCHOL, VET. ADMIN. HOSP, 50- Lectr, Kentucky, 51-52. U.S.A.A.F, 43-46, Lt. Psychol. Asn. Phenomenology and existentialism; dreaming; probability. Publ: Co-ed, Conditio Humana, Springer Verlag, W. Germany, 66 & Phenomenology of will and action, Duquesne, 67; auth, Odds adjustments by American horse-race bettors, Am. J. Psychol. Address: Research Lab, Veterans Administration Hospital, Lexington, Ky. 40507.

GRIFFITHS, PROF. I(ORWERTH) ACE, b. McAlester, Okla, June 18, 17; m. 43. COUNSELING PSYCHOLOGY. B.S, Idaho, 42; Washington State, summer 43, 44; M.S, Arizona, 50; Minnesota, summer 51; Ed.D.(guid), Colo. State Col, 56. Teacher, high schs, Idaho & Wash, 42-48; dir. guid, East. Ariz. Jr. Col, 49-55; PROF. COUNSELING & GUID, FRESNO STATE COL, 56- Dean students, Reedley Col, 56-59. Psychol. Asn; Personnel & Guid. Asn; Voc. Guid. Asn. Address: Dept. of Advanced Studies, Fresno State College, Fresno, Calif. 93726.

GRIFFITHS, DR. KEITH S(EABURY), b. Walla Walla, Wash, Oct. 9, 19; m. 43; c. 2. SOCIOLOGY. B.A, Washington (Seattle), 47, M.A, 49, Livingston fel, 50-51, Ph.D, 52. Chief res. & statist, State Dept. Instns, Wash, 52-55, chief staff, 55-58; CHIEF RES, CALIF. YOUTH AUTHORITY, 58- Consult, President's Cmn. Law Enforcement & Admin. Justice, 65-66. U.S.A.A.F, 42-46, Capt. Sociol. Asn. Criminology; corrections; sociology; research management. Publ: The role of research in corrections, President's Cmn. Law Enforcement & Admin. Justice, 67; The future of youth corrections, Key Issues, 65; Research in the reception center, In: Delinquent children in juvenile correctional institutions, C.C. Thomas, 66. Address: 3320 Cottage Way, Sacramento, Calif. 95825.

GRIFFITHS, DR. ROY SCOTT, Neurophysiol, Psychol. See 11th ed, Phys. & Biol. Vols. & Suppl. II.

GRIFFITHS, PROF. THOMAS M(ELVIN), b. Wyandotte, Okla, Sept. 6, 10; m. 42; c. 2. GEOGRAPHY. A.B, Denver, 48, M.A, 49; Ph.D.(geog), Northwestern, 53. From asst. prof. to assoc. prof. GEOG, DENVER, 50-64, PROF, 64-, CHMN. DEPT, 65- Res. proj. supvr, Denver Res. Inst, 55-56, prin. investr, Proj. DUTY, 65- U.S.A.A.F, 41-46. Asn. Am. Geog. Geomorphology; economic geography. Publ: The Rocky Mountains; Davis Strait; The Colorado desert, In: Encyclop. Britannica. Address: Dept. of Geography, University of Denver, Denver, Colo. 80210.

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GRIFFITT, DR. WILLIAM B, b. Lyons, Kans, June 27, 42; m. 62; c. 1. PSYCHOLOGY. B.A, Kansas State, 64; Nat. Inst. Ment. Health fel, Texas, 65, univ. fel, 66, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, HAWAII, 67- Psychol. Asn. Personality and social psychology; interpersonal attraction; measurement. Publ: Interpersonal attraction as a function of self-concept and personality similarity-dissimilarity, 10/66 & co-auth, Attraction and similarity of personality characteristics, 1/67, J. Personality & Soc. Psychol; Reinforcement properties of attitude statements, J. Exp. Res. Personality, 12/66. Address: Dept. of Psychology, University of Hawaii, Honolulu, Hawaii 96822.

GRIFFITTS, PROF. C(HARLES) H(URLBUT), b. Ozawkie, Kans, Jan. 5, 89; m. 12; c. 3. PSYCHOLOGY. A.B, Campbell Col, 13; A.M, Kansas, 14; Ph.D.(psychol), Michigan, 19. Instr. PSYCHOL, Park Col, 14-16; asst, MICHIGAN, 16-17, instr, 17-22, asst. prof, 22-25, assoc. prof, 25-36, prof, 36-58, EMER. PROF, 58- U.S.A, 18-19, 1st Lt. AAAS; Psychol. Asn. Individual race differences; emotion; vocational and clinical psychology. Publ: Fundamentals of vocational psychology; Individual differences in imagery, Psychol. Monogr. Address: 1507 Charlton Ave, Ann Arbor, Mich. 48103.

GRIGG, DEAN AUSTIN E(ARNEST), b. Richmond, Va, July 24, 18; m. 52; c. 1. CLINICAL PSYCHOLOGY. B.A, Richmond, 40, M.A, 47; U.S. Pub. Health Serv. fel, Iowa, 55-57, Ph.D.(psychol), 57. Clin. psychologist, State Penitentiary, Va, 41-43, 46-47; instr. clin. psychol, Med. Col. of Va, 47-48; asst. prof. psychol, Richmond, 48-55; Texas, 57-60, dir, grad. prog. clin. psychol, 59-60; assoc. prof. psychol, RICHMOND, 60-63, prof. & chmn. dept, 63-66, DEAN COL, 67- Consult, Med. Col. of Va, 48-55; Tucker Hosp, 47-55; Vet. Admin, Tex, 57-60, regional training chmn, 59-60. Mem. Gov. Cmn. Ment. Health, 65-66. U.S.A.A.F, 43-46, 2nd Lt. AAAS; fel. Psychol. Asn. Variables that influence clinical judgement; response sets and deviant responses; scaling techniques with personality assessment; dyadic relationships. Address: Richmond College, University of Richmond, Richmond, Va. 23173.

GRIGG, PROF. CHARLES M(EADE), b. Nov. 1, 18; U.S. citizen; m. 47; c. 3. SOCIOLOGY. B.S, Col. William & Mary, 48; M.A, North Carolina, 50, Ph.D. (sociol), 52. Asst. prof. sociol. Brown, 52-54; assoc. prof. & dir. center soc. res, FLA. STATE, 55-60, PROF. SOCIOL. & DIR. INST. SOC. RES, 60- assoc. dean soc. sci, arts & sci, 66. U.S.A.A.F, 41-46, Capt. Sociol Asn; Pop. Asn. Population; race relations. Publ: Co-auth, Racial crisis in America, Prentice-Hall, 64; auth, Graduate education, Library of Ed, 65. Address: 1559 Cristobal Dr, Tallahassee, Fla. 32303.

GRIGG, DR. VERNON H(ERBERT), b. Vancouver, B.C, May 4, 21; nat; m. 51. INDUSTRIAL ECONOMICS. M.A, British Columbia, 49; Ph.D.(indust. econ), Mass. Inst. Tech, 54. Asst. to dir, B.C. Res. Coun, 44-49; EXEC. STANDARD OIL CO.(N.J), 51- Lectr, British Columbia, 47-48. Econ. Asn. International finance. Address: 138 Sawmill Rd, Stamford, Conn. 06903.

GRIGGS, PROF. HARRY H(UBERT), Journalism, Mass Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

GRIGSBY, PROF. SHAW E(ARL), b. Winnfield, La, Sept. 4, 12; m. 52; c. 2. SOCIOLOGY. B.S, La. State, 35, M.A, 37; Ph.D.(sociol), Cornell, 42; Harvard, 43. Asst. state supvr. rural res, Works Progress Admin, 37-39; soc. sci. analyst, bur. agr. econ, U.S. Dept. Agr, 42-43, 46-49; consult. soc. sci, Off. Mil. Govt, U.S. Dept. Army, Germany, 49-51; soc. economist, for. serv, U.S. Dept. State, 51-52; asst. prof. SOCIOL, FLORIDA, 53-60, assoc. prof, 60-67, PROF, 67-, ACTING HEAD DEPT. SOCIOL. & ANTHROP. & EXTEN. TRAINING SPECIALIST, AGR. EXTEN. SERV. 59- Consult, Florida-U.S. Agency Int. Develop, Costa Rica, 66; Florida-Agr. Develop. Coun. Colombia, 67-68. U.S.N, 43-46, Lt. Sociol. Asn: Soc. Appl. Anthrop: Personnel & Guid. Asn. Problem areas and rural research: research design. Publ: Gemeindestudie des instituts fur sozialwissenschtliche forschung; Industrial and labor problems, In: Social Problems; Rural social organization of Frederick County, Maryland, Univ. Maryland, Agr. Exp. Sta. Bull. Address: 4890 N.W. 20th Place, Gainesville, Fla. 32601.

GRIGSBY, PROF. WILLIAM G(ILCHRIEST), b. Sioux Falls, S.Dak, Jan. 23, 27; m. 53; c. 5. ECONOMICS, URBAN PLANNING. B.S, Colorado, 48; M.S, Columbia, 50, Ph.D, 58. Asst. bur. bus. & econ. res, California, Los Angeles, 54-55; RES. ASSOC. INST. URBAN STUDIES, PENNSYLVANIA, 55-, assoc. prof. finance, Wharton Sch, 61-66, PROF. CITY & REGIONAL PLANNING, 66- Vis. prof. polit. sci, Bryn Mawr Col, 67; real estate, California, Los Angeles, summer, 67. U.S.N, 44-46, 48-49, 52-54, Res, 54-, Lt. Econ. Asn; Regional Sci. Asn; Finance Asn. Housing: urban development and renewal; social welfare and poverty. Publ: Co-auth, Residential renewal in urban core & Demand for housing in racially mixed areas; auth, Housing markets and public policy, Univ. Pennsylvania, 63. Address: 711 Briarcliffe Rd, Upper Darby, Pa. 19082.

GRILICHES, PROF. H(IRSH) ZVI, b. Kaunas, Lithuania, Sept. 12, 30; nat; m. 53; c. 2. ECONOMICS. S.B, California, 53, Carr fel. & S.M. 54, univ. fel, Chicago, 54-55, A.M, 55, Soc. Sci. Res. Coun. fel. 55-56. Ph.D. 57. Asst. prof. ECON, CHICAGO, 56-59, assoc. prof, 60-64, PROF, 64- Nat. Sci. Found. res. grants, 56, 58, 61, 65, 68; res. assoc, Nat. Bur. Econ. Res. 59-60; vis. prof, Economet. Inst, Rotterdam & Hebrew Univ, Israel, 63-64. Consult, Nat. Sci. Found; Rand Corp; Brookings Inst; Fed. Reserve Bd. Am. ed, Rev. Econ. Studies, 67-68; co-ed, Econometrica, 68- Mem. exec. cmt, Conf. Res. Income Wealth; dir. Soc. Sci. Res. Coun, 67-69. Fel. AAAS; Am. Econ. Asn.(John Bates Clark Medal, 65); Agr. Econ. Asn.(awards, 57, 59-60); Economet. Soc; Am. Acad. Arts & Sci; fel. Statist. Asn; fel. Royal Econ. Soc. Econometrics; technological change; agricultural economics. Publ: On an index of quality change, J. Am. Statist. Asn; Hybrid corn: an exploration in the economics of technological change, Econometrica; Research expenditure, education and the aggregate agricultural production function, Am. Econ. Rev, 12/64. Address: 5631 Harper Ave, Chicago, Ill. 60637.

GRIM, DR. PAUL FREDERICK, b. Reading, Pa, Mar. 28, 29; m. 59; c. 2. PSYCHOLOGY. B.A, Chicago, 59, Ph.D.(psychol), 65. RES. PSYCHOLOGIST & INSTR. PSYCHOL, SCH. MED, PITTSBURGH, 65- U.S.A.F, 53-57. Psychol. Asn; Soc. Psychophysiol. Res. Experimental and psychophysiological approaches to psychotherapy and personality. Publ: Effects of stimulus change upon the GSR and reaction time, J. Exp. Psychol, 65; A system for recording the orienting reflex, Am. J. Psychol, 65; A sustained attention

comparison of children and adults using reaction time set and the GSR, J. Exp. Child Psychol, 67. Address: 3811 O'Hara St, Pittsburgh, Pa. 15213.

GRIMBERG, DR. JUAN CARLOS, Appl. Math, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GRIMES, PROF. ALAN P(ENDLETON), b. Staten Island, N.Y, Feb. 3, 19; m. 42; c. 4. POLITICAL SCIENCE. A.B, North Carolina, 41, A.M, 46, Ph.D, 48. Asst. prof, North Carolina, 48; POLIT. SCI, MICH. STATE, 48-51, assoc. prof, 51-57, PROF, 57- U.S.N.R, 41-45, Lt. Polit. Sci. Asn. American political theory. Publ: American political thought, Holt, 60; Equality in America, 64 & The Puritan ethic and woman suffrage, 67, Oxford Univ. Address: Dept. of Political Science, Michigan State University, East Lansing, Mich. 48823.

GRIMES, PROF. BLAINE E(AGLE), b. Kansas City, Kans, Apr. 16, 18; m. 40; c. 1. ECONOMICS. A.B, Kansas, 39, A.M, 41; Colorado, 44; Ph.D, Ohio State, 60. Asst. economist, U.S. Dept. Commerce, 42; asst. prof. ECON, OHIO WESLEYAN, 46-55, assoc. prof, 55-61, PROF. & CHMN. DEPT, 61- U.S.N, 42-46, Lt.(jg). Econ. Asn. Ethics and economic policy; economic theory. Publ: Co-auth, Values and policy in American society & Goals of economic policy; auth, Economic analysis of social policy evaluation. Address: Dept. of Economics, Ohio Wesleyan University, Delaware, Ohio 43015.

GRIMES, DR. F(RANCIS) VINCENT, Psychol, see 10th ed, Soc. & Behav. Vols.

GRIMM, DR. ELAINE R, b. New York, N.Y, Dec. 31, 21. PSYCHOLOGY. B.A, Columbia, 42, Ph.D, 53; M.A, Yale, 43; fel, William Alanson White Inst, 61-65, cert. psychoanal, 66. Asst. instr. psychol, Conn. Col, 43-44; intern, Menninger Found, 45-46; asst. child develop, Fels Inst, 46; psychometrician, prfnl. exam. serv, Am. Pub. Health Asn, 46-53, asst. dir, 53-55; res. assoc. psychol. in obstet, med. sch, Cornell, 55-61, consult, 64-65; res. psychologist, Health Ins. Plan Greater New York, 61-64; PRACTICING PSYCHOLOGIST, 62- Summer lectr, Columbia, 60 & 61; res. dir, family proj, Ed. Alliance-Hillside Hosp, 67- Consult, Nat. Inst. Neurol. Diseases & Blindness, 59-61. Psychol. Asn. Psychotherapy; psychosomatic and clinical psychological research; diagnostic testing; test construction. Address: 60 E. Ninth St, New York, N.Y. 10003.

GRIMMETT, DR. JOHN O(RSON), b. Paris, Idaho, May 24, 23; m. 48; c. 4. PSYCHOLOGY. B.S, Idaho, 48; M.A, Stanford, 50; Ph.D.(psychol), Pa. State, 54. STAFF CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, Tomah, Wis, 54-56, SALT LAKE CITY, 56- Mem, N.Am. Asn. Alcoholism Progs, 66. U.S.A, 43-46. Psychol. Asn. Evaluation of treatment in neuropsychiatric settings; Milieu therapy; program development for alcoholism treatment programs; drug and alcohol addiction. Publ: Personality diagnosis through music, Bull. Nat. Asn. Music Ther. Address: Veterans Administration Hospital, Salt Lake City, Utah 84113.

GRIMSHAW, DR. ALLEN D(AY), b. Jamaica, N.Y, Dec. 16, 29; m. 52; c. 3. SOCIOLOGY. A.B, Missouri, 50, M.A, 52; Harrison fel, Pennsylvania, 57-58, 58-59, Fels Fund fel, 58-59, Ph.D, 59. Asst. instr. SOCIOL, Missouri, 51-52; instr, Pennsylvania, 54-58; INDIANA, 59-61, asst. prof, 61-65, ASSOC. PROF, 65-, DIR. INST. COMP. SOCIOL, 66- Am. Inst. Indian Studies faculty res. fel, 62-63; vis. scientist, Am. Sociol. Asn-Nat. Sci. Found, 63-; Nat. Inst. Ment. Health res. grant, 64-66; instr, Pennsylvania, summer 59. Mem. cmt. comp. sociol. res. & cmt. sociolinguistics, Soc. Sci. Res. Coun, 67- U.S.A.F.R, 52-54, 1st Lt. Sociol. Asn; Anthrop. Asn; Asn. Asian Studies. Social processes in group relations, particularly social conflict and social violence; comparative sociology; sociolinguistics. Publ: Anglo-Indian community: the integration of a marginal group, J. Asian Studies; Urban racial violence in the United States: changing ecological considerations, Am. J. Sociol; Directions for research in sociolinguistics: suggestions of a nonlinguist sociologist, Sociol. Inquiry, 66. Address: Dept. of Sociology, Indiana University, Bloomington, Ind. 47401.

GRIMSLEY, DR. DOUGLAS L, b. San Diego, Calif, Sept. 18, 39; m. 65. PHYSIOLOGICAL PSYCHOLOGY. B.S, Fla. State, 61; Ph.D.(psychol), Syracuse, 64. Asst. prof. psychol, Fla. State, 64-66; RES. ASST, HUMRRO, GEORGE WASHINGTON, 66- AAAS; Psychol. Asn. Central nervous system mechanisms in food and water regulation; hyperphagia; preferences in adrenalectomized rats; polydipsia and fluid regulation. Publ: Co-auth, Effects of intracarotid injections of hypertonic saline on spinal reflex excitability, Nature, Vol. 197, 63; auth, Effect of water deprivation and injections of hypertonic saline on the activity of rats, Psychol. Report, Vol. 16, 65; Preoperative saccharine experience and postoperative fluid preference in adrenalectomized rats, Psychonomic Sci, Vol. 9, 67. Address: HumRRO, George Washington University, Box 5787, Presidio of Monterey, Calif. 93940.

GRIMSLEY, PROF. GLEN, b. Kidder Co, N.Dak, May 16, 11; m. 38; c. 2. PSYCHOLOGY. A.B, Southern California, 40, A.M, 42, Ph.D.(psychol), 47. Personnel technician, Lockheed Aircraft Corp, Calif, 42-43, personnel engr, 43-44, supvr. testing, 44-45; lectr. psychol, Southern California, 45-46, 47; asst. prof, Arizona, 46-47; asst. prof, Mich. State Col, 47-49; consult. psychologist, Gen. Motors Corp, 49-51; res. dir. & v.pres, Psychol. Serv, Inc, 51-57; assoc. prof. bus. admin, SOUTHERN CALIFORNIA, 55-60, MGT, 60-63, PROF, 63- Adv, Inst. Bus. Admin, Karachi, 60-, chief of party, 62-64. AAAS; fel. Psychol. Asn; Mgt. Asn. Industrial psychology; personnel selection; organizational behavior; employee morale. Publ: Psychological techniques in personnel research; co-auth, Employee aptitude survey, Psychol. Serv, Inc, 52, 53, 56, 57; auth, Comparison of Wherry-Doolittle and a multiple cutting score. Address: Graduate School of Business Administration, University of Southern California, University Park, Los Angeles, Calif. 90007.

GRIMWOOD, GORDON B, Econ, see 10th ed, Soc. & Behav. Vols.

GRINDER, DR. ROBERT E(UGENE), b. Rockford, Ill, June 24, 29; m. 57; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, California, 51; Ed.M, Harvard, 56, fel, 58, Ed.D.(ed. psychol), 60. Asst. instr. human rels, Boston, 56-58; ASST. PROF. psychol, Hawaii, 58-61; ED. PSYCHOL, WISCONSIN, 61- U.S.N, 51-53. Psychol. Asn; Soc. Res. Child Develop; Ed. Res. Asn. History of psychology. Publ: Studies in adolescence, Macmillan, 63; A history of genetic psychology, Wiley, 67. Address: 936 W. Johnson, Madison, Wis. 53715.

GRINGS, PROF. WILLIAM W(ASHBURN), b. Superior, Wis, Mar. 19, 18; m. 42; c. 4. PSYCHOLOGY. B.A, Dubuque, 40; M.A, Iowa, 41, Ph.D. (psychol), 46. Asst. PSYCHOL, Iowa, 40-42, instr, 46; asst. prof, Denver, 46-47; SOUTHERN CALIFORNIA, 47-51, assoc. prof, 51-60, PROF. & CHMN. DEPT, 60- U.S.A.A.F, 42-45. Fel. AAAS; fel. Psychol. Asn; Psychomet. Soc. Psychology of learning; laboratory psychology and experimental design. Address: Dept. of Psychology, University of Southern California, Los Angeles, Calif. 90007.

GRINNELL, DR. HAROLD C(LAYTON), b. Broadalbin, N.Y, July 7, 95; m. 22; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Cornell, 21, M.S, 30, Ph.D. (pub. admin), 41. Field agent, Fed. Farm Bd. & Univ. Vermont, 30-31, acting head dept. agr. econ, univ, 31-32; asst. prof, NEW HAMPSHIRE, 32-41, assoc. prof, 41-46, prof, 46-65, assoc. dean col. agr, 46-50, dean, 50-65, dir. agr. exp. sta, 46-58, coordinator instr, res. & exten, col. agr, 58-65, EMER. PROF. RESOURCE ECON. & EMER. DEAN COL. AGR, 65- Del, Constitutional Convention, N.H, 64; mem. State Legis, 65-66. U.S.A, 18-19, Lt. Farm management; cooperative marketing; local government and taxation; tax delinquency; rural education. Address: 24 Bagdad Rd, Durham, N.H. 03824.

GRINSTED, CAPT. ALAN D(OUGLAS), U.S.N.(RET), b. Orange, N.J, July 20, 05; m. 32; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Bucknell, 31; M.A, Florida, 33; Iowa, 35-37; Ph.D, La. State, 39. Instr. psychol, La. State, 39-40, acting head dept, 40-41; assoc. prof, R.I. State Col, 45-47; prof, N.C. State Col, 47-48; asst. dir. res. Sch. Aviation Med, Med. Serv. Corps, U.S. Navy, 48-52, coordinator res. staff, Naval Air Training Command, 52-55, head aviation psychol. br, Bur. Med. & Surg, 55-60, coordinator res, Naval Aviation Med. Center, 60-66, aviation exp. psychologist, Staff, Chief Naval Air Training, 66-67; LECTR. MGT, WEST FLORIDA, 67- Lectr, Armstrong Cork Corp, 54; Baptist Hosp, 54-55; Fla. Power & Light Co, 66; underwater sound reference div, Naval Res. Lab, 67; adj. prof, bd. regents, off. continuing ed, Fla. State Univ, 66-67. Consult, Vet. Admin. Clin, N.C, 47-48. U.S.N, 41-45. AAAS; Psychol. Asn; Soc. Training & Develop. Decision time; employee motivation and morale; employer-employee relationships. Publ: Naval aviation night vision instructors manual; Bodily movement as related to problem solving, J. Exp. Psychol; Aviation psychology, Aviation Med. Practice. Address: 7050 W. Fairfield Dr, Pensacola, Fla. 32506.

GRIP, PROF. CARL M(ANFRED), JR, b. May 21, 21; m; c. 3. PSYCHOLOGY, SOCIOLOGY. B.A, Beloit Col, 46; Illinois; Ph.D, Chicago, 56. Asst. dean men, Illinois, 47-50; dir. student housing, Chicago, 50-54, lectr. soc. sci, 54-56, assoc. dir. res. proj. community orgn, Wieboldt Found, 53; asst. prof. psychol, assoc. dept. psychiat. & dean men, Temple, 56-68; DEAN COL. LIBERAL ARTS, ILL. INST. TECH, 68- U.S.N, 44-45. Psychol. Asn; Personnel & Guid. Asn. Development, especially adolescence; personality; community organization. Publ: Social perception and role performance. Address: College of Liberal Arts, Illinois Institute of Technology, 3300 Federal St, Chicago, Ill. 60616.

GRIPP, PROF. RICHARD C, b. Cleveland, Ohio, Dec. 9, 22; m. 47; c. 2. POLITICAL SCIENCE. A.B, Whittier Col, 48; A.M, Southern California, 49, Ph.D.(polit. sci), 54. Asst. polit. sci, Southern California, 50-51; res. analyst, U.S. Govt, 52-58; asst. prof. POLIT. SCI, SAN DIEGO STATE COL, 58-62, assoc. prof, 62-66, PROF, 66- U.S.A, 43-45. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Government and politics of Soviet Union, Eastern Europe and Far East. Publ: Patterns of soviet politics, Dorsey, 63, 67. Address: 4441 Carmen Dr, La Mesa, Calif. 92041.

GRISSOM, DR. ROBERT J(OSEPH), b. New York, N.Y, May 13, 38; m. 63; c. 1. PSYCHOLOGY. A.B, Brown, 60; Walker fel, Princeton, 60, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, SAN FRANCISCO STATE COL, 63-67, ASSOC. PROF, 67-, faculty res. grant, 67-68; AAAS; Psychol. Asn. Experimental psychology; research design; learning; memory; sensory deprivation; sensation. Publ: Co-auth, The effects of sensory deprivation and social isolation on the performance of an unstructured cognitive task, 3/64, auth, Facilitation of memory by experiential restriction after learning, 12/66 & Group experiments in hearing, 3/67, Am. J. Psychol. Address: Dept. of Psychology, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

GRISWOLD, PRES. A(LFRED) WHITNEY, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 63.

GRISWOLD, DR. BARBARA B, b. Layland, W.Va, Apr. 11, 32; div; c. 2. PSYCHOLOGY. B.A, California, Berkeley, 58, U.S. Vet. Admin. fel, 59-60, 62-63, U.S. Pub. Health fel, 60-61, Ph.D.(psychol), 65. Asst. res. psychologist, California, Berkeley, 64-66; ASST. PROF. PSYCHOL, WEST VIRGINIA, 66- Participant, U.S. Childrens Bur. Battered Child Conf, 66. Consult, Volunteers in Serv. to Am, 67; Coun. South. Mountains, 67; Monongalia County Sch. Dist, 67; counseling serv, West Virginia Univ, 67; U.S. Peace Corp, Calif, summer, 66. AAAS; Psychol. Asn. Illegitimacy recidivism; child neglect and abuse; creativity; styles of attention deployment and incidental cue utilization. Publ: Co-auth, The differential use of incidental stimuli in problem solving as a function of creativity, J. Abnorm. & Soc. Psychol, 68: 431-436, Illegitimacy recidivism among AFDC clients, In: Social Work Practice, Columbia Univ, 67 & Anxiety and repression as predictors of the use of incidental cues in problem solving, J. Personality & Soc. Psychol, 6: 353-359. Address: Dept. of Psychology, West Virginia University, Morgantown, W.Va. 26506.

GRISWOLD, PROF. JOHN ALFRED, b. Cerro Gordo, Ill, Jan. 17, 07; m. 36. ECONOMICS. A.B, Millikin, 29; A.M, Columbia, 30, Ph.D.(econ), 36. Asst. prof. econ, sch. commerce, St. Louis, 34-37; assoc. prof. FINANCE, Oklahoma, 37-46; PROF. AMOS TUCK SCH, DARTMOUTH COL, 46-, instr, grad.

sch. credit & financial mgt. Consult, New Eng. Tel. & Tel. Co, 51; Investment Anal. Bur, Mo. U.S.A.A.F, 42-46. Econ. Asn; Finance Asn. Financial structure of business; capital budgeting. Publ: Use of funds in American manufacturing, 65 & Guide to merger analysis, 68, Credit Res. Found. Address: Dept. of Finance, Dartmouth College, Hanover, N.H. 03755.

GRISWOLD, DR. MANZER J(OHN), b. Missoula, Mont, Sept. 25, 16; m. 54; c. 2. SOCIOLOGY, DEMOGRAPHY. B.A, Montana State, 40; M.A, Washington (Seattle), 47, Ph.D, 52. Instr. sociol, Wayne State, 50-51; statistician, Seattle City Planning Cmn, 51-52; asst. prof. sociol, West. Wash. Col. Ed, 52-55; res. analyst, State Dept. Insts, Wash, 55-56, res. & statist. officer, 56-59; prog. analyst pub. health, State Dept. Health, 59-62; res. dir. delinquency prev. res. proj, Seattle Atlantic St. Center, 62-64; prin. investr. migrant res. proj, United Good Neighbors Fund Seattle & King County, 64-66; ASSOC. PROF. SOC. WORK RES, SCH. SOC. WORK, WASHINGTON (SEATTLE), 62-, RES. DIR, VOC. REHAB. RES. INST, 66- Sociol. Asn. Program evaluation and operations research in social welfare; social work research. Publ: Role of research in the total correctional program, Proc. Cong. Corrections; The effect of legal and policy restrictions on the availability of services to newcomers in King County, Washington, 65 & Newcomers to King County, 1870-1990, 65, United Good Neighbors of Seattle & King County. Address: 2726 N.E. 75th St, Seattle, Wash. 98115.

GRIVAS, DR. THEODORE, U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GROAT, DR. HARRY THEODORE, b. Sturgis, Mich, Oct. 10, 32; m. 61. SOCIOLOGY. B.A, Bowling Green State, 54, M.A, 58; Ph.D.(sociol), Brown, 62. Instr. SOCIOL, BOWLING GREEN STATE, 61-62, asst. prof, 63-65, ASSOC. PROF, 66- Fulbright prof, Rajshahi Univ, E.Pakistan, 64-65. U.S.A.F, 54-56, 1st Lt. Sociol. Asn; Pop. Asn. Demography; migration and fertility; social and psychological correlates of differential fertility. Publ: Internal migration patterns of a population subgroup, Am. J. Sociol, 1/64; co-auth, Social psychological correlates of urban fertility, Am. Sociol. Rev, 12/67. Address: Dept. of Sociology, Bowling Green State University, Bowling Green, Ohio 43402.

GROB, PROF. FRITZ, b. Uzwil, Switz, Nov. 5, 95; nat. POLITICAL SCIENCE. Zürich; Geneva; Berlin; J.U.D, Bern, 27; Carnegie fel, 32-33; S.J.D, 35. Res. fel. int. law, bur. int. res, Harvard-Radcliffe Col, 35-47; lectr, New Hampshire, 47-48; PROF. POLIT. SCI, OLIVET COL, 48- Swiss Army, 14-54, Lt. Polit. Sci. Asn. International law and relations; comparative government. Publ: Die Kompetenzen des Völkerbundsrates und der Völkerbundsversammlung zur Streitschlichtung und Kriegsverhütung; Relativity of war and peace, a study in law, history and politics. Address: Dept. of Political Science, Olivet College, Olivet, Mich. 49076.

GROB, DR. GERALD N, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GROB, DR. SAMUEL, b. New York, N.Y, Sept. 5, 13; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.S.S, City Col. New York, 35, M.S.E, 39; M.P.A, N.Y. Univ, 43; Ph.D.(clin. psychol), Harvard, 51. Clin. psychologist, Vet. Admin, Boston, Mass, 46-50, asst. chief clin. psychologist, Bedford, 51-55; dir. field serv, Mass. Asn. Ment. Health, 56-59, assoc. dir, 59-61, dir. demonstration res. rehab, 61; EXEC. DIR, CENTER HOUSE FOUND, 61- Res. asst, Harvard, 51-53; lectr, Boston, 66- Consult, fed. soc. security bd, Boston State Hosp. Mass. Asn. Ment. Health, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol, 53. U.S.A, 43-45, Lt. Psychol. Asn. Group process; personality dynamics; milieu therapy approach to the after-care and rehabilitation of ex-mental patients. Publ: Prevocational planning and work conditioning for seriously handicapped ex-mental patients, Ment. Hyg, 4/63; Book reviews: The mental patient comes home, fall 65 & Book review: Work and mental illness, summer 67, Community Ment. Health J. Address: 368 School St, Belmont, Mass. 02178.

GRODEN, DR. GERALD, b. Cambridge, Mass, Apr. 11, 31; m. 57; c. 1. PSYCHOLOGY. A.B, Vermont, 57, M.A, 59; Ph.D.(psychol), Purdue, 63. Instr. PSYCHOL, sch. med, Indiana, 63-64, asst. prof, 64-66; DIR. CHILD DEVELOP. CENTER, R.I. HOSP, 66- Lectr, Univ. Rhode Island & R.I. Col, 66-67. Consult, Ind. Dept. Correction. U.S.N.R, 52-54. AAAS; Soc. Res. Child Develop; Psychol. Asn. Child development; neuropsychology. Address: Child Development Center, Rhode Island Hospital, Providence, R.I. 02903.

GRODINSKY, PROF. JULIUS, Finance, see 10th ed, Soc. & Behav. Vols.

GRODOWITZ, WILLIAM, b. West Orange, N.J, Nov. 22, 17; m. 48; c. 3. STATISTICS. B.A, N.Y. Univ, 39; N.J. State Teachers Col, Montclair, 40; American Univ, 45-50; Air War Col, 65. Econ. statistician, aircraft div, War Prod. Bd, D.C, 43-44; anal. statistician, biomet. div, Nat. Cancer Inst, Md, 47-51; Off. Surg. Gen, U.S. AIR FORCE, D.C, 51-53, opers. analyst, Air Proving Ground Command, Eglin Air Force Base, Fla, 53-57, Germany, 57-60, sr. opers. analyst, off. opers. anal, hq, 60-64, sr. progs. analyst, spec. asst. prog. eval, Directorate Aerospace Progs, 64-67, ASSOC. DIR. AEROSPACE PROGS. EVALS. & TECH, PRIN. ANAL. SUPPORTING OFF. AEROSPACE PROG, 67- Mem. Wash. Opers. Res. Symposium. Opers. Res. Soc. Biometrics; cancer statistics; operations research; military weapons system analysis; nuclear and conventional weapons effects; tactical aircraft and ground defense systems. Publ: Cost effectiveness comparison of high performance and specialized aircraft in a limited war situation; Uses of cost effectiveness analysis in military decision making, 10/64; Vitilization of commercial and military transports, 8/67. Address: 4828 Randolph Dr, Annandale, Va. 22003.

GRODSKY, DR. MILTON ALFRED, b. Milwaukee, Wis, July 2, 32; m. 53; c. 5. PSYCHOLOGY. B.S, Wisconsin, 53; M.A, South Dakota, 54; Ph.D.(psychol), Emory, 63. Res. assoc. psychol, South. Ed. Res. Serv, 57; U.S. Army Air Defense Human Res. Unit, 57-58; design specialist, MARTIN MARIETTA CORP, BALTIMORE, 58-60, mgr. life sci, Apollo Prog, 60-61, tech. dir. psychol-human factors, 62 & 63-64, staff scientist, 62-63, prin. engr, 64-67, PROG. DIR. ENG, 67- Asst. prof, Va. Polytech, 66-67. Outstanding astronaut. achievement award, Md. Sect, Am. Rocket Soc, 62. AAAS; Psychol. Asn. Human performance in operational situations under both normal and adverse environmental situations. Publ: Co-auth, Hoarding in hamsters with systematically controlled pretest experience, J. Comp. & Physiol. Psychol, 6/58; auth, The use of full mission simulation for the assessment of complex operator performance, Human Factors, 8/67; Man-machine simulation, In: Prospects for simulation and simulators of dynamic systems, Spartin, 67. Address: 2313 Pot Spring Rd, Timonium, Md. 21093.

GRODZINS, PROF. MORTON, Polit. Sociol, see 10th ed, Soc. & Behav. Vols, deceased 64.

GROENNINGS, DR. SVEN, b. Martinez, Calif, Aug. 28, 34; m. 65. POLITICAL SCIENCE. A.B, Stanford, 56, Am-Scandinavian fel, 60, Ph.D.(polit. sci), 62; Nat. Woodrow Wilson fel, Fletcher Sch. Law, 56-57, M.A, 57. Instr. GOVT, INDIANA, 62-64, ASST. PROF, 64- Eagleton Inst-Nat. Center Ed. in Polit. Republican Nat. Convention fel, 64; summers, vis. asst. prof, Wisconsin, Milwaukee, 65, Ford Found. West. European res. grant, 66. Polit. Sci. Asn. Publ: Co-auth, Study of coalition behavior, Holt, 69; Scandinavia in social science literature: an English language bibliography, Indiana Univ, 68. Address: Dept. of Government, College of Arts & Sciences, Indiana University, Bloomington, Ind. 47401.

GROGAN, FRANCIS J(OSEPH), S.J, b. Westbury, L.I, June 12, 20. POLITICAL PHILOSOPHY. A.B, Loyola (Ill), 44; Ph.Lic, W. Baden Col, 46; M.A, Fordham, 48, Ph.D.(polit. philos), 50; Th.Lic, Woodstock Col, 54. Asst. prof. jurisp, polit. philos. & govt, Canisius Col, 55-61; Fordham, 61-64; POLIT. SCI, ST. PETER'S COL.(N.J), 64-67, ASSOC. PROF. & CHMN. DEPT, 67-, faculty fel, summer 65. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Christian, medieval and American political thought; theology of society. Address: Dept. of Political Science, St. Peter's College, Jersey City, N.J. 07306.

GROHSMEYER, PROF. F(REDERICK) A(NDREW), JR, b. Canton, Ohio, Apr. 7, 23; m. 49. PSYCHOLOGY. A.B, DePauw, 48; M.A, Northwestern, 49; Ph.D.(psychol), Purdue, 54. Instr. ed. & psychol, Earlham Col, 49-53, asst. prof, 53-56; psychologist, Rohrer, Hibler & Replogle, 56-57; staff psychologist, Booz, Allen & Hamilton, 57-58; assoc. prof, PSYCHOL, EARLHAM COL, 58-64, PROF, 64- Exec. dir. inst. exec. growth, Earlham Col, 58-, consult, 64- Indust. consult. U.S.A.A.F, 43-46, Sgt. AAAS; Psychol. Asn. Industrial selection and placement; industrial training; executive development. Address: Dept. of Psychology, Earlham College, Richmond, Ind. 47374.

GROLLE, DR. FLOYD A, b. Perrysburg, Ohio, Apr. 15, 24; m. 50; c. 4. PHARMACEUTICAL CHEMISTRY, MARKETING MANAGEMENT. B.S, Toledo, 49; M.S, Michigan, 50, M.B.A, 54, Ph.D.(mgt), 58. Teaching fel. pharm. & chem, Michigan, 49-56, instr. pharm. & pharm. admin, 56-58; med. serv. rep. pharmaceut. detailing, Upjohn Co, Mich, 58-59, prod. planner, 59-60, asst. to v.pres. mkt, 60-61, prod. mgr, 61-63, mgr. chem. mkt. res, 63-65; dir. proj. mgt, BECTON, DICKINSON & CO, 65-67, DIR. ECON. RES. & PLANNING, 67- Am. Pharmaceut. Asn; Soc. Hosp. Pharmacists; Acad. Pharmaceut. Sci.(v.chmn); Mkt. Asn; Chem. Soc; Soc. Plastic Eng; Air Pollution Control Asn; Nat. Planning Asn; Heart Asn. Economic and technical studies of emerging trends and markets, primarily in the health industry. Publ: Casebook in pharmacy management, 58 & Instructors guide—pharmacy management, 58, Edwards; Use of break-even graph procedures in pharmacy administration, J. Pharm. Ed, 56. Address: Becton, Dickinson & Co, Rutherford, N.J. 07070.

GROLLIG, FRANCIS XAVIER, S.J, b. Cincinnati, Ohio, July 9, 22. ANTHROPOLOGY. A.B, Loyola (Ill), 47, A.M, 52; Ph.L, West Baden Col, 49, S.T.B, 54; Indiana Univ. Found. & Buenos Aires Convention grants, Guatemala, 58; Ph.D.(anthrop), Indiana, 59. Teacher, high sch, Ohio, 44-45; Loyola Acad, Ill, 49-50; instr. hist, LOYOLA (ILL), 55-56, asst. prof. hist. & anthrop, 59-64, ASSOC. PROF. ANTHROP, 65-, CHMN. DEPT, 67- Fulbright res. grant, Peru, 61. Mem, Oriental Inst, Univ. Chicago, 64- Fel. Anthrop. Asn; Archaeol. Inst. Am. Archeology, ethnology, and linguistics in Central and South America. Publ: San Miguel Acatan, Huehuetenango, Guatemala: a modern Mayan village, Univ. Microfilms, 59; An urgent task of research in Guatemala, Bull. Int. Cmt. Urgent Anthrop. & Ethnol. Res, 60; Amulets, animism, demonology, fetishism, necromancy, occultism, taboo, voodooism, Catholic encyclopaedia for school and home, rev. ed, 68. Address: Dept. of Anthropology, Loyola University, 6525 N. Sheridan Rd, Chicago, Ill. 60626.

GROMAN, DR. WILLIAM D, b. New York, N.Y, Nov. 28, 13; m. 37; c. 2. PSYCHOLOGY. B.A, Miami (Fla), 56, M.S, 57; U.S. Pub. Health Serv. fel, Duke, 58-59, Ph.D.(psychol), 62. Chief asst. psychol, Duke, 60-61, instr, 61-62; staff clin. psychologist, Vet. Admin. Hosp, Richmond, Va, 62-64; asst. prof. PSYCHOL, Med. Col. Va, 63-64; ASSOC. PROF, RICHMOND PRFNL. INST, 64- Consult, dept. psychol, Cent. State Hosp, 65- Publ: Co-auth, Comparison of two longitudinally studied cases with the Ames' Rorschach norms for children, Zeitschrift für diagnostische Psychol. & Persönlichkeitsforschung, 59; auth, An apparatus for presenting continuously varing binocularly disparate views of an apparently single object, Quart. J. Exp. Psychol, 64. Address: Dept. of Psychology, Richmond Professional Institute, Richmond, Va. 23220.

GROMOLL, DR. HENRY F(RED), JR, b. Chicago, Ill, Dec. 31, 30; m. 54; c. 2. CLINICAL & EXPERIMENTAL PSYCHOLOGY. B.S, Illinois, 53, Ph.D, 61. Asst. psychol, Illinois, 54-55; trainee clin. psychol, Vet. Admin. Hosp, Danville, Ill, 55-60; instr, MILLIKIN, 60-64, ASSOC. PROF. PSYCHOL. & CHMN. DEPT, 64- Staff psychologist, Decatur Ment. Health Clin, 60-64; private clin. psychologist, 61- AAAS; Psychol. Asn. Physiological psychology, particularly with regard to relating theories of behavior and behavior disorders to neurophysiological and electrophysiological correlates; community mental health; behavior therapy. Address: Dept. of Psychology, Millikin University, Decatur, Ill. 62522.

GRONLUND, PROF. NORMAN E(DWARD), b. Dollar Bay, Mich, Apr. 25, 20; m. 42; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, North. Mich. Col. Ed, 42; M.A, Michigan, 47, Ph.D.(ed. psychol), 50. Asst. to dir. bur. appointments & occup. info, Michigan, 50-52; asst. prof. ED. PSYCHOL, ILLINOIS, UR-

BANA, 52-55, assoc. prof, 55-60, PROF, 60- U.S.C.G, 42-45. Psychol. Asn. Social relationships of children; social perception; sociometric measurement. Publ: Sociometry in the classroom; Measurement and evaluation in teaching, 65 & Readings in measurement and evaluation, 68, Macmillan. Address: College of Education, University of Illinois, Urbana, Ill. 61801.

GRONOUSKI, DR. JOHN A(USTIN), b. Dunbar, Wis, Oct. 26, 19; m. 48; c. 2. ECONOMICS. Ph.B, Wisconsin, 42, Ph.M, 37, Ph.D.(econ), 55. Teacher pub. finance, money & banking, Maine, 48-50; res. assoc, Fedn. Tax Adminstrs, 52-56; Wisconsin, 56-57; teacher pub, state & local finance & money & banking, Wayne State, 57-59; res. dir. civil serv, State Dept. Taxation, Wis. & exec. dir, Gov. Tax Impact Study & Continuing Revenue Surv. Cmn, 59-60; tax cmnr, Wis. State Dept. Taxation, 60-63; Postmaster Gen. U.S, 63-65; U.S. AMBASSADOR, POLAND, 65- Teacher, eve. sch, Roosevelt, 53-55; mem. res. staff, Mich. Tax Study, 57-58. U.S.A.A.F, 42-45, 1st Lt. Econ. Asn. Federal, state and local taxation; property valuation; fiscal policy. Publ: Dividend rate of capitalization and some refinements in the stock and debt evidence of value, Nat. Tax Asn. Proc. Address: 6133 33rd St. N.W, Washington, D.C. 20015.

GROOM, DR. JOHN L(OUIS), b. Corpus Christi, Tex, Apr. 22, 22; m. 44; c. 2. GOVERNMENT. A.B, Wheaton Col.(Ill), 42; Ph.D, Southern California, 55. Instr. govt, Dickinson Col, 50-52; res. analyst, U.S. Air Force Intel. Hq. Staff, D.C, 52-53; asst. prof. humanities & govt, REDLANDS, 53-60, ASSOC. PROF. GOVT, 60- Citizenship Clearing House scholar, St. Louis, 58; instr, Salzburg, Austria, 62-63; exchange prof, Delhi, 66-67. U.S.N, 45-46, Lt.(jg). Polit. Sci. Asn; Asn. Pub. Opinion Res. Contemporary theory; elections; ideological commitment; scientific measurement of public opinion. Address: Dept. of Humanities & Political Science, University of Redlands, Redlands, Calif. 92373.

GROOMS, DR. ROBERT ROY, b. Crucible, Pa, June 17, 24; m. 55; c. 6. PSYCHOLOGY. B.S, Pa. State, 53, M.S, 55, Ph.D, 61. Intern psychol, Vet. Admin. Hosp, Altoona, Pa, 53-54, Perry Point, Md, 54-55; asst. to dir, intermediate registrn. div, Pa. State, 55-57, counseling psychologist, 57-63; PROF. PSYCHOL. & HEAD DEPT, FROSTBURG STATE COL, 63- U.S.A, 43-49, Sgt. Psychol. Asn. Verbal behavior; verbally mediated behavior change; learning theory; personality theory; psychopathology; psychotherapy; child psychology; anxiety measurement; vocational and educational counseling. Publ: Effect of anxiety on academic achievement, J. Ed. Psychol; co-auth, Comparisons between cultural and individual associative response hierarchies, Learning & Verbal Behav, 65; Temporal stability of chains of word associations, J. Gen. Psychol, 66. Address: Dept. of Psychology, Frostburg State College, Frostburg, Md. 21532.

GROOT, DR. HENRIETTE, b. Enkhuizen, Netherlands, Apr. 28, 32; nat. CLINICAL PSYCHOLOGY. B.S, Munic. Univ. Amsterdam, Netherlands, 53; U.S. Pub. Health Serv. fel, California, Los Angeles, 57-59: Ph.D, 60. Asst. anthrop, California, Los Angeles, 54-55; trainee clin. psychol, Calif. Rehab. Center, 56-57; Vet. Admin, Long Beach & Brentwood Hosps, 59-60; instr. psychol, San Diego State Col, 60-61; CLIN. PSYCHOLOGIST, psychol. serv, Vet. Admin. Neuropsychiat. Hosp, Los Angeles, 61-67, DOMICILIARY PSYCHOL. SERV, VET. ADMIN. CENTER, 67- Psychol. Asn. Application of conditioning procedures to problems in clinical psychology; design of treatment programs based on learning theory and group behavior principles. Publ: An attempt to produce changes in attitude toward the self by means of verbal conditioning, J. Verbal Learning & Verbal Behav, 10/62; co-auth, What mental illness labels mean to schizophrenics, Psychol. Reports, 66 & The cluster lab as group therapy in a mental hospital, Newsletter Res. Psychol, 8/66. Address: Domiciliary Psychology Service, 183 D, Veterans Administration Center, Los Angeles, Calif. 90073.

GROPPER, DR. GEORGE L(EONARD), b. Boston, Mass, Aug. 22, 24. PSYCHOLOGY. A.B, Harvard, 46; M.A, California, 53; Ph.D.(psychol), Pittsburgh, 56. Asst. statist. & hist. psychol, California, 50-53; res. consult. psychol. res, Maynard Found, 53-56; ASST. PROG. DIR. PSYCHOL. RES, AM. INST. RES, 56- U.S.A, 43-46. Psychol. Asn; Ed. Res. Asn; Asn. Ed. Broadcasters. Education and industrial training; research on instructional methods, especially film, television and teaching machines. Publ: Who goes to graduate school; Studies in televised instruction. Address: 6344 Walnut St, Pittsburgh, Pa. 15206.

GROSE, PROF. ROBERT F(REEMAN), b. Norwood, Mass, July 12, 24; m. 47; c. 4. PSYCHOLOGY. B.A, Yale, 44, M.S, 47, Ph.D, 53. Instr. PSYCHOL, AMHERST COL, 50-51, asst. prof, 51-57, ASSOC. PROF, 57-, REGISTR, 56- Consult. registr, Silliman, Philippines, for United Bd. Christian Higher Ed. Asia, 63-64. U.S.N.R, 43-46, Lt.(jg). Psychol. Asn; Ed. Res. Asn; Asn. Instnl. Res. Educational psychology; verbal behavior; psychological testing; institutional research and records; higher education. Publ: Comparison of vocal and subvocal conditioning of galvanic skin response; co-ed, Transfer of learning, Van Nostrand, 63. Address: 147 Woodside Ave, Amherst, Mass. 01002.

GROSECLOSE, DR. ELGIN, b. Waukomis, Okla, Nov. 25, 99; m. 27; c. 4. POLITICAL SCIENCE, PUBLIC FINANCE. A.B, Oklahoma, 20; A.M, American Univ, 24, Ph.D.(hist, polit. sci), 28. Spec. agent, U.S. Dept. Commerce, 23-26, analyst, Guaranty Trust Co, N.Y, 27-30; assoc. ed, Fortune, 30-32; asst. prof, col. bus. admin, Oklahoma, 32-38; economist, bur. int. revenue, U.S. Treas. Dept, 38-43; treas, Gen. of Iran, 43; FINANCIAL CONSULT, 44- Lectr, City Col. New York, 30-32; Fulbright Adv. Res. fel, Teheran, 51. Consult, Small Bus. Admin, 54; asst. Secy. of Commerce, 55. Economist, in charge financial studies, spec. tel. invest, Fed. Commun. Cmn, 35-38. Pres, Welfare of Blind, Inc, Mid. East, 56- Exec. dir, Inst. Monetary Res, 60- Near East Relief medal, 26; Am. Booksellers award, 39; Found. Lit. award, 40. Nat. Asn. Bus. Econ. Monetary economics; Middle East affairs; financial analysis. Publ: Introduction to Iran, Oxford Univ, 47; Money and man, Ungar, 61 & 67; Fifty years of managed money, Books Inc, 66. Address: 4813 Woodway Lane N.W, Washington, D.C. 20016.

GROSOF, DR. ELLIOTT HOWARD, b. Brooklyn, N.Y, Sept. 9, 31; m. 52; c. 2. SOCIOLOGY. A.B, Columbia Col, 52; M.A, Pa. State, 56, fel, 57-58, Ph.D, 59. Asst. SOCIOL, Pa. State, 53-57; asst. prof. STATE UNIV. N.Y. BUFFALO, 58-64, ASSOC. PROF, 64-, CO-DIR. U.S. PUB. HEALTH SERV. TRAINING GRANTS FOR Ph.D. IN MED. SOCIOL, 67-; CO-DIR, U.S. PUB. HEALTH SERV. SOCIOL. RES. PROJ, 60- Fel. Sociol. Asn; Pub. Health Asn; Inst. Mgt. Influence of sociologic factors and complex organizational structure on individual behavior; evaluation and development of Ph.D. curriculum joining medicine and sociology; sociological factors in medical organization and labor turnover in hospitals. Publ: Social class background of college seniors and anticipated behavior in bureaucratic structures, Am. Catholic Sociol. Rev, fall 62; Status and organizational effectiveness, In: Focus on change and the school administrator, Sch. of Ed. Prog. Ed. Admin, State Univ. N.Y. Buffalo, 65; co-auth, Theory of labor turnover, In: Patient, physician and illness, Macmillan, (in press). Address: 227 Depew Ave, Buffalo, N.Y. 14214.

GROSS. DR. ALFRED, b. New York, N.Y, July 11, 28. CLINICAL PSYCHOLOGY. B.S.S, City Col. New York, 49, M.S, 53; Ph.D, Adelphi, 62. Intern psychologist, Springfield State Hosp, Sykesville, Md, 55-56, staff psychologist, 58-61, acting dir. psychol. serv, men's group, 61-64; staff psychologist, Spring Grove State Hosp, Catonsville, Md, 57-58; dir. psychol. training, CROWNSVILLE STATE HOSP, 64-65, CHIEF PSYCHOL. SERV, 65- Consult. psychologist, ment. hyg. clin, Wash. County Health Dept, Hagerstown, Md, 57-61; West. Md. State Hosp, 59-65; Charles County Health Dept, La-Plata, 61-64; psychotherapist consult, ed. clin, Cath. Bd. Ed, Baltimore, 63-64. Psychol. Asn. Verbal learning in schizophrenics. Address: 3120 St. Paul St, Baltimore, Md. 21218.

GROSS, ALVIN C(HARLES), b. Swanton, Ohio, Mar. 19, 24; m. 49; c. 3. ECONOMICS. A.B, Notre Dame, 49; Michigan, 49; Ohio State, 50-51; M.A, Pittsburgh, 68. Instr. econ, Portland, 49-51; analyst, Gen. Elec. Co, 51-58; sr. sales forecaster, Pittsburgh Plate Glass Co, 58-64, bus. economist, PPG Industs, 64-67; MGR. ECON. RES, COMMERCIAL PROD. GROUP, N.AM. ROCKWELL CORP, 68- U.S.A, 43-45. Mkt. Asn; Econ. Asn; Asn. Bus. Econ; Statist. Asn. Input-output analysis; regional analysis; corporate planning and development; techniques of short and long range economic forecasting; institutional factors affecting economic decision making. Address: North American Rockwell Corp, North American Rockwell Bldg, Pittsburgh, Pa. 15222.

GROSS, PROF. BERTRAM M(YRON), b. Philadelphia, Pa, Dec. 25, 12; m. 38; c. 4. POLITICAL SCIENCE, BUSINESS ADMINISTRATION. B.A, Pennsylvania, 33, M.A, 35. Exec-secy, President's Coun. Econ. Adv, 46-51; chmn, Nat. Capital Regional Planning Coun, 52-53; econ. adv, Off. Prime Minister, Israel, 53-55, Ministry of Finance, 55-56; vis. prof. pub. & bus. admin, Hebrew Univ, 56-60; PROF. POLIT. SCI. & DIR. NAT. PLANNING STUDIES PROG, MAXWELL SCH, SYRACUSE, 60- Res. fel, Center Adv. Study Behav. Sci, 61-62; Soc. Sci. Res. Coun. faculty fel. admin. theory; vis. prof, California, Berkeley, 62; Leatherbee lectr, Harvard Grad. Sch. Bus. Admin, 62-63. Consult, Korean Reconstruct. Agency, UN, 52; secy. & undersecy. of Dept. of Health, Ed. & Welfare, 66- Chmn. exec. cmt, Int. Group Studies Nat. Planning, 66- Polit. sci. Asn; Soc. Pub. Admin; Econ. Asn. Legislative process in the United States Congress; administrative process in various types of organizations in different countries and cultures; legislative processes; general systems theory; social accounting and change. Publ: The managing of organizations, Macmillan, 64; The state of the nation: social systems accounting, Tavistock, 66; co-auth. & ed, Action under planning, McGraw, 67. Address: Dept. of Political Science, Maxwell School, Syracuse University, Syracuse, N.Y. 13210.

GROSS, DR. CHARLES GORDON, b. New York, N.Y, Feb. 29; 36; m. 61; c. 1. PHYSIOLOGICAL PSYCHOLOGY. A.B, Harvard, 57; Ph.D.(psychol), Cambridge, 61. Lectr. PSYCHOL, Mass. Inst. Tech, 61-63, ASST. PROF, 63-65; HARVARD, 65-, vis. lectr, 63-65. Nat. Insts. Health fel, 61-63; res. grants, Nat. Insts. Health, Nat. Sci. Found. & United Cerebral Palsy Res. Found, 63- Ecol. Soc; Psychol. Asn; Psychonomic Soc. Neuropsychology; neurophysiology of the central nervous system; brain lesions; physiology of learning. Publ: Co-auth, Effects of stimulation of frontal cortex and hippocampus on behavior in the monkey, Brain, 85: 487-504, Some changes in behavior produced by lateral frontal lesions in the Macaque, In: The frontal granular cortex and behavior, McGraw, 64 & Single unit activity in temporal association cortex of the monkey, J. Neurophysiol, 30: 833-843. Address: Dept. of Psychology, Harvard University, Cambridge, Mass. 02138.

GROSS, CHARLES ROBERT, b. Chicago, Ill, Oct. 2, 31. INDUSTRIAL PSYCHOLOGY. B.A, Mich. State, 54, M.A, 56. Asst. indust. psychol, Mich. State, 55-56, spec. asst. hwy. traffic safety center, 56-57; staff psychologist, Fry Consult, Inc, Ill, 57-58, dir. field psychol. serv, 58-59, personnel serv, West. Div, Calif, 59-61, assoc, 61-64; dir. training & develop, Stater Bros, Inc, 64-66; PRIN. GEN. MGT. SERV, FRY CONSULTS, INC, 66- Res. psychologist, Detroit Edison Co, 55-56; assoc. prof, Los Angeles State Col, 60-61; lectr, Southern California, 61-64. Psychol. Asn; Mgt. Asn; Soc. Training & Develop. Leadership behavior; personnel assessment; social psychological factors in large organizations; management development; marketing, advertising and motivational research. Publ: Recent trends in assessment of executive personnel; Career development patterns of successful executives; Observational analysis of supervisory behavior. Address: 64 Levant St, San Francisco, Calif. 94114.

GROSS, CLIFFORD R(AY), b. Freeman, S.Dak, July 25, 15; m. 46. POLITICAL SCIENCE. B.A, South Dakota, 37, M.A.(polit. sci), 38; scholar, Syracuse, 38-40, M.S, 46, fel, 46-47. Budget analyst, SOC. SECURITY ADMIN, U.S. DEPT. HEALTH, ED. & WELFARE, 42-49, fiscal consult, 49-54, disability policy consult, 54-60, ADMIN. OFFICER, 60- Polit. Sci. Asn; Soc. Pub. Admin. Public budgeting and administration; state and federal relations. Address: RFD 2, Reed Lane, Ellicott City, Md. 21043.

GROSS, PROF. EDWARD, b. Rumania, Oct. 18, 21; nat; m. 43; c. 2. SOCIOLOGY. B.A, British Columbia, 42; California, Los Angeles; M.A, Toronto, 45; Ph.D.(sociol), Chicago, 49. Prof. sociol, Washington State, 47-51, 53-60; assoc. res. sociologist, Washington (Seattle), 51-53; PROF. SOCIOL, Minnesota, Minneapolis, 60-66; WASHINGTON (SEATTLE), 67-

Mem. panel counseling and selection, Nat. Manpower Adv. Cmt, 65- Sociol. Asn. Industrial sociology; social organization; sociology of professions; major national survey of administrators in all universities in the United States. Publ: Work and society; Experiments in teaching effectiveness; Industry and social life, W.C. Brown, 65. Address: Dept. of Sociology, University of Washington, Seattle, Wash. 98105.

GROSS, PROF. FELIKS, b. Cracow, Poland, June 17, 06. SOCIOLOGY. Magister Juris, Cracow, 29, Dr. Juris, 30, Carnegie scholar, Paris, 30. Ed, New Europe, 42-45; PROF. SOCIOL. & ANTHROP, BROOKLYN COL, 46- Adj. prof, N.Y. Univ, 45-; vis. prof. & dir. inst. int. affairs, Wyoming, 45-52; vis. prof, Woodrow Wilson Sch. For. Affairs, Virginia, 51, 54-56; vis. prof, Vermont, 57; Fulbright lectr, Rome, 57-58, 64-65; grants, N.Y. Univ. Pub. Affairs Found, 62-63, Sloane Found, 63, City Univ. New York, 66-67. Order of Phoenix, Govt Greece, 63. Sociol. Asn; Am. Acad. Polit. Sci; N.Y. Acad. Sci; Asn. Adv. Slavic Studies; Polish Inst. in Am; Inst. Studies Asn; Int. Acad. Polit. Sci. Values and political sociology; international affairs; East European area. Publ: Seizure of political power; World politics & tension areas, N.Y. Univ, 66; Essays on social values & structure, Univ. Rome, 67. Address: Dept. of Sociology, Brooklyn College, Brooklyn, N.Y. 11210.

GROSS, DR. FRANCES S(LOSMAN), b. Chicago, Ill, June 26, 24; m. 54; c. 1. CLINICAL PSYCHOLOGY. M.A, Chicago, 48; Ph.D, Buffalo, 58. Asst. psychol. lab. sch, Chicago, 45-46; psychologist, Lincoln State Sch, Ill, 47-48; State Ment. Hyg. Clins, N.Y, 49-50; instr, Buffalo, 54-55; dir. psychol. servs, Orchard Park Cent. Sch, 55-59; clin. psychologist, Guid. Inst. Berks County, 60-65; staff psychologist, BUTLER HOSP, 65-67, DIR. DAY HOSP. SERV, 67- Consult, psychol. clin, Univ. Buffalo, 48-50; pub. schs, N.Y, 53-56. Psychol. Asn. Relationship between perception and personality and its application to psychotherapy. Publ: Role of set in perception of the upright, J. Personality. Address: 99 Upton Ave, Providence, R.I. 02906.

GROSS, PROF. FRANZ BRUNO, b. Vienna, Austria, July 29, 19; nat; m. POLITICAL SCIENCE. Fel. & M.A, Harvard, 43, fel. & Ph.D, 52; Grad. Inst. Int. Studies, Switz, 47-50; summer, Heidelberg, 48. Lectr, Grinnell Col, 43-44; ed. writer, Des Moines Register & Tribune, 44; press officer, U.S. Mil. Govt, Germany, 46-47; press correspondent, UN Hq, Switz, 47-50; ed. writer, UN Bul, 50-51; lectr, Babson Inst. Bus. Admin, 51-52; asst, Russian Res. Center, Harvard, 52; lectr, Queens Col.(N.Y), 53; asst. prof. govt, City Col. New York, 53-54; acting chmn. dept. soc. sci, Bradford Jr. Col, 54-59; prof. POLIT. SCI, PMC COLS, 59-67, DISTINGUISHED PROF, 67-, HEAD DEPT, 67-, chmn. div. lib. arts, 61-67. Lectr, center adult ed, Cambridge Jr. Col, 51-54; res. fel, Harvard, 53; dir. European res, Am. Soc. Race & Caste, 54; vis. prof, grad. sch, Pennsylvania, 61-63; Inst. Indian Civilization, Mysore, 65; Univ. Dakar, 66-67. Summers, lectr, Trinity Col.(Conn), 57; res. assoc, Hague Acad. Int. Law, 58; ed. & writer, Sunday N.Y. Times, 60. Mem. adv. cmt, Inst. Mediterranean Affairs. U.S.A, 44-46. Polit. Sci. Asn; Soc. Int. Law; African Studies Asn; Asn. Asian Studies. International law; the United Nations; comparative government, especially the Soviet Union; Western & Eastern Europe; Middle East and West Africa; international economic relations. Publ: U.S. and the United Nations, Univ. Oklahoma Press, 64; The Suez crisis, Prentice-Hall, 66; chaps. in: Handbook of World History, 67. Address: Dept. of Political Science, PMC Colleges, Chester, Pa. 19013.

GROSS, DR. HELEN SHIMOTA, b. St. Paul, Minn, May 14, 31; m. PSYCHOLOGY. A.B, Col. St. Catherine, 52; Ph.D.(psychol), Minnesota, 56. Asst. psychol, Minnesota, 52-53; trainee clin. psychol, Vet. Admin, 53-56; clin. psychologist, Vet. Admin. Hosp, St. Cloud, Minn, 56-57; asst. prof. psychol. & clin. psychologist, Seattle, 57-59; res. clin. psychologist, ment. health res. inst, State Dept. Insts, Wash, 59-63, ed, jour, 60-61; sr. res. assoc, Youth Studies Center, Univ. Southern California, 63-65; coordinator community serv, RAINIER SCH, 65-66, CHIEF PSYCHOLOGIST, 66- Instr, Puget Sound, 60-63; clin. assoc. dept. pediat, sch. med, Washington (Seattle), 66- AAAS; Psychol. Asn; Asn. Ment. Deficiency. Relationship of perception and personality; evaluation of experimental treatment programs; development of evaluation instruments; diagnosis, training and rehabilitation of mentally retarded; rehabilitation and/or prevention of problems of culturally disadvantaged. Publ: Co-auth, Statistically speaking, C.C. Thomas, 64 & Relationship of psychiatry and occupational therapy as demonstrated by a survey of attitudes; Analysis of reading ability in emotionally disturbed adolescents. Address: Rainier School, Box 600, Buckley, Wash. 98321.

GROSS, PROF. HERBERT H(ENRY), b. Buckley, Ill, Mar. 14, 05; m. 31; c. 3. GEOGRAPHY. Ph.B, Chicago, 29, M.A, 34, Ph.D.(geog), 48. PROF. GEOG, CONCORDIA TEACHERS COL, 40- Consult. geogr. Ed, J. Geog. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed.(pres, 64). Educational geography; cartography; physical geography. Publ: Co-auth, Exploring regions near and far, 65 and Exploring regions of the western hemisphere, 66 & Exploring regions of Latin America and Canada, 68, Follett. Address: 909 N. Marion St, Oak Park, Ill. 60302.

GROSS, DR. HERBERT W(ILLIAM), b. Boston, Mass, Feb. 6, 31; m. 54; c. 1. CLINICAL PSYCHOLOGY. B.A, Brandeis, 52; Ph.D, Buffalo, 59. Psychologist, North Tonawanda Bd. Ed, 57-59; chief psychologist, Guid. Inst. Berks County, 59-64; lectr. psychol. Pa. State, 61-64; CHIEF PSYCHOLOGIST, BUTLER HOSP, 64- Consult, R.I. Col, 67- Psychol. Asn. Clinical psychology; mental health; psychotherapy; psychodrama. Address: 99 Upton Ave, Providence, R.I. 02906.

GROSS, PROF. IRMA H(ANNAH), b. Omaha, Nebr, July 21, 92. HOME ECONOMICS. S.B, Chicago, 15, M.A, 24, Richards fel, 29-30, Ph.D.(family econ), 31. From instr. to prof. HOME MGT, MICH. STATE, 21-58, EMER. PROF, 58- Vis. distinguished prof, Pa. State, 64; vis. lectr, Cornell, 64; vis. prof, San Diego State Col, 66-67. Regional field supvr, consumer purchases study, U.S. Bur. Home Econ, 36, war time study family incomes & expenditures, 42. Sociol. Asn; Home Econ. Asn; Nat. Coun. Family Rels. Home management and economics. Publ: Co-auth, Home management in theory and practice & Management for modern families; ed, Potentialities of women in the middle years. Address: 8522 Lemon Ave, La Mesa, Calif. 92041.

GROSS, PROF. JACK L(OUIS), b. New York, N.Y, Feb. 1, 25; m. 47; c. 3. BUSINESS ADMINISTRATION. A.B, Columbia Col, 47; M.S, Indiana, 48; M.B.A, N.Y. Univ, 50, Ph.D.(bus. admin), 65. Res. analyst, Lever Brothers Co, 48; sr. res. analyst, Nat. Broadcasting Co, 48-49; mgr. N.Y. Off. Broadcast Res, Am. Res. Bur. Div, C-E-I-R, Inc, 49-64; V.PRES. MKT-SALES, MEDIA STATIST, INC, 64-; PROF. BUS. ADMIN, GRAD. SCH. BUS. ADMIN, RUTGERS, 67- Assoc. prof, Hofstra, 65-66; prof, Long Island, 66-67; vis. prof, Temple, 67- U.S.A.A.F, 43-46. Statist. Asn; Econ. Asn; Mkt. Asn. Broadcast research methods; advertising research standards; operations research techniques applied to advertising; economic growth; Soviet Union income; management utilization of marketing intelligence; quantitative techniques in marketing; applied marketing behavior. Publ: Pricing policies; Short cut method of correlation. Address: Media Statistics, Inc, 509 Madison Ave, New York, N.Y. 10022.

GROSS, PROF. LEO, b. Krosno, Austria, Apr. 6, 03; nat. INTERNATIONAL LAW. Dr. rer. pol, Vienna, 27; Rockefeller fel, Harvard, 30-31, S.J.D, 31. PROF. INT. LAW & ORGN, FLETCHER SCH. LAW, TUFTS, 44- Vis. lectr, Harvard, 47, 51-52; vis. prof, New Sch. Soc. Res, 48; Yale, 49; chmn. int. law, U.S. Naval War Col, R.I, 54-55; lectr, For. Serv. Inst, U.S. Dept. State, 57-65; Fulbright prof, Copenhagen, 58; vis. prof, Columbia, 62; hon. vis. fel. & mem. adv. coun, Hansberry Col. African Studies, Univ. Nigeria, 63-; vis. prof, Harvard, 64-66; lectr, Asian Inst. Int. Studies, Manila, 66; Fulbright vis. prof, Tokyo & Hitotsubashi, 66; Carnegie lectr, Hague Acad. Int. Law, summer 67. U.S. Dept. State Am. specialist, Saigon & Vietnam, summer, 63 & India, 67. Consult, legal counsel, UNRRA, 44-45, legal dept, UN, 48-49, 52. Mem. adv. screening cmt. in law & int. law, Fulbright & Smith-Mundt grants, 58-61; nat. screening cmt, Fulbright grants, Scandinavia & Iceland, 60-61, chmn. cmt, 61-62. Polit. Sci. Asn; fel. Am. Acad. Arts & Sci. International organization; United Nations. Publ: The United Nations and the role of law, Int. Orgn, 65; Domestic jurisdiction, enforcement measures in the Congo, Australian Yearbook Int. Law, 65; The United Nations and the International Court of Justice, In: Recueil des Cours, Hague Acad. Int. Law, 67. Address: 127 Washington St, Belmont, Mass. 02178.

GROSS, PROF. L(LEWELLYN) Z(WICKER), b. U.S, July 13, 14; m. 36; c. 3. SOCIOLOGY. B.A, Minnesota, 36, M.A, 38, Ph.D, 47. Asst, Minnesota, 38-42; instr. sociol, anthrop. & soc. work, Idaho, 42-44; asst. prof. SOCIOL. & ANTHROP, STATE UNIV. OF N.Y. BUFFALO, 44-47, assoc. prof, 47-50, PROF, 50-, CHMN. DEPT. SOCIOL, 57-, acting chmn. dept, 51-52, 54-55. Prin. investr, U.S. Pub. Health Serv, 60-65; dir, Nat. Inst. Ment. Health Training Proj, 63-65; vis. prof, Inst. Am. Studies, Paris, France, 66-67; dir. Nat. Defense Ed. act fel. prog, State Univ, N.Y, 66- Indust. Consult. Mem. cmt. humanities, Am. Sociol. Soc-Am. Coun. Learned Socs, 63- Fel. Sociol. Asn; Philos. Sci. Asn; Wilderness Soc. Social theory; methodology; social psychology; philosophy of social science. Publ: Ed. & co-auth, Symposium on sociological theory, 59 and Sociological theory: Inquiries and paradigms, 67, Harper; co-auth, Social stratification in the U.S, Prentice-Hall, 69. Address: Dept. of Sociology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

GROSS, DR. NATHAN B, b. Mar. 14, 16. PSYCHOLOGY. B.S, Chicago, 38, M.S, Rochester, 44, Ph.D.(psychol), 46. Asst, Rochester, 40-44; spec. res. assoc, Harvard, 44-45; asst. prof. psychol, Lehigh, 46-51, assoc. prof, 51-63; PROF. PHYSIOL. PSYCHOL, KRESGE HEARING RES. INST, MED. SCH, MICHIGAN, 63- Nat. Insts. Health spec. fel, lab. neurophysiol, Wisconsin, 61-63. AAAS; Physiol. Soc. Physiological acoustics. Address: 3010 Geddes, Ann Arbor, Mich. 48104.

GROSS, PROF. N(EAL), b. San Antonio, Tex, Dec. 9, 20; m. 48; c. 3. SOCIOLOGY. Ph.B, Marquette, 41; fel. & M.S, Iowa State Col, 42, Soc. Sci. Res. Coun. fel. & Ph.D.(sociol), 46; Marshall Field fel, Chicago, 43; hon. M.A, Harvard, 56. Res. asst. prof. sociol, Iowa State Col, 46-48; from asst. to assoc. prof, Minnesota, 48-51; lectr. ed. & sociol. & res. assoc, grad. sch. ed, Harvard, 51-56, assoc. prof. ed. & sociol, 56-58, prof, 58-68; PROF. ED. & SOCIOL. & DEAN GRAD. SCH. ED, PENNSYLVANIA, 68- Soc. Sci. Res. Coun. fel, Michigan & Cornell, 48; fel, Center Adv. Study Behav. Sci, 57-58; Ford Found. spec. award, Europe & Africa, 63-64. Consult, Ford Found, 61-62; Inst. Ed. Develop, 67-; Dept. Ed, Commonwealth of P.R, 67- Mem. nat. adv. bd, center adv. study ed. admin, Univ. Oregon, 64- Sociol. Asn; Ed. Res. Asn; Sociol. Res. Asn. Sociological analysis of educational organizations and professional roles; diffusion of technological innovations; organizational transformation. Publ: Who runs our schools? co-auth, Staff leadership in public schools: a sociological inquiry, Wiley, 65; Explorations in role analysis: studies of the school superintendency role. Address: Graduate School of Education, University of Pennsylvania, Philadelphia, Pa. 19104.

GROSS, PROF. R(ICHARD) E(DMUND), b. Chicago, Ill, May 25, 20; m. 42; c. 4. SOCIAL SCIENCE. B.S, Wisconsin, 42, M.S, 46; fel, Stanford, 49, Ed.D.(soc. sci. ed), 51. Instr. soc. sci, Menlo Sch. & Col, 48-51; asst. prof. SOC. SCI. ED, Fla. State, 51-55; assoc. prof, STANFORD, 55-65, PROF, 65- Fulbright lectr, Wales, 61-62; dir, Nat. Sci. Found. Summer Inst. for Sociol. Teachers, Stanford, 68. Consult, numerous state, county & local sch. systs. & dists, 53-; soc. studies curriculum, San Francisco Pub. Schs, 55-57; state cent. cmt. soc. studies, Calif. State Dept. Ed, 57-60; Scholastic Multi-Texts Pub, 63-; co-dir, Field Ed. Pub, 67- Mem. adv. bd, Ed. Policies Cmn, 66- Nat. Coun. Soc. Studies (pres, 67); Acad. Polit. & Soc. Sci; Hist. Asn. Improvement in teaching social sciences and studies; correlations of history and other social sciences; problem solving and critical thinking competencies; teaching of government and citizenship education. Publ: Co-auth, Educating citizens for democracy, Oxford Univ, 58; Sociology of the school, Crowell, 60; Heritage of American education, Allyn & Bacon, 62. Address: School of Education, Stanford University, Stanford, Calif. 94305.

GROSS, PROF. WALTER, b. New York, N.Y, Aug. 17, 23; m. 50; c. 3. MARKETING, BUSINESS ADMINISTRATION. B.A, Brooklyn Col, 44; M.B.A, N.Y. Univ, 48, Ph.D.(bus. admin), 63. Instr. econ, City Col. New York, 46-48; mkt, Toledo, 48-49; asst. prof. econ, Arizona State, 50-53; assoc. prof. bus. admin, Tex. Col. Arts & Indust, 58-64; PROF. MKT, GEORGIA, 64- Mkt.

Asn; Econ. Asn. Marketing communications within the distributive channels, between sellers and business buyers and between sellers and the mass market; quantified policies for marketing science. Publ: Co-auth, Marketing handbook, 65 & Business policy, 67, Ronald; auth, Strategies used by major department stores, J. Retailing, 64. Address: College of Business Administration, University of Georgia, Athens, Ga. 30601.

GROSSACK, DR. IRVIN M, b. New York, N.Y, Apr. 25, 27; m. 56; c. 2. ECONOMICS, STATISTICS. A.B, City Col. New York, 52, fel, 52; Ph.D, Columbia, 62. Asst. econ, Nat. Bur. Econ. Res, N.Y, 54-55; statistician, U.S. Bur. Census, Md, 55-59; res. economist, C-E-I-R, Inc, 59-62; ASSOC. PROF. ECON, INDIANA, 62- Prog. economist, U.S. Agency Int. Develop. Mission, India, 66-68. Econ. Asn; Statist. Asn; Economet. Soc. Industrial organization; impact of market structure on policies of price, production, research and investment; application of econometric techniques; managerial economics. Publ: Co-auth, Measuring advertising effectiveness, Bus. Horizons, fall 63; auth, Toward an integration of static and dynamic measures of industrial concentration, Rev. Econ. & Statist, 8/65; Duopoly defensive strategies and the kinked demand curve, South. Econ. J, 4/66. Address: Graduate School of Business, Indiana University, Bloomington, Ind. 47405.

GROSSACK, PROF. MARTIN MYER, Psychol, see 10th ed, Soc. & Behav. Vols.

GROSSBERG, DR. JOHN M(ORRIS), b. Brooklyn, N.Y, Oct. 11, 27; m. 55; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 50; U.S. Pub. Health Serv. fel, Indiana, 53-54, M.A, 55, Ph.D, 56. Teaching assoc. psychol, Indiana, 54-55; instr, California, 55-57, asst. prof, 57-58; chief psychologist, Moundbuilders Guid. Center, 58-62; asst. prof. PSYCHOL, SAN DIEGO STATE COL, 62-65, ASSOC. PROF, 65- Res. grants, Voc. Rehab. Admin, 63-64 & Nat. Inst. Ment. Health, 66-68. U.S.N, 45-46. Psychol. Asn; Ed. Res. Asn. Behavior modification; psychophysiology. Publ: Behavior therapy: a review, Psychol. Bull, 8/64. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

GROSSCHMID, PROF. GEZA B(ENJAMIN), b. Budapest, Hungary, Oct. 29, 18; nat; m. 46; c. 1. ECONOMICS. J.U.D, Peter Pazmany Univ, Hungary, 43. Admin. asst, UNRRA, 46-47; asst. prof. mod. langs. & econ, DUQUESNE, 48-51, ECON, 51-52, assoc. prof, 52-54, PROF, 54-, DIR, INST. AFRICAN AFFAIRS, 59-, mem. & lectr, inst. communism, 54-59. Vis. prof, Mt. Mercy Col, 48; Fulbright-Hays fel, South Africa, 65; mem. Cambridge Univ. Summer Conf, King's Col, 61. Consult. & field reader, U.S. Off. Ed, 66- Hungarian Army, 44-45. Am. Econ. Asn; fel. African Studies Asn; Royal Econ. Soc; Int. Free Acad. Economic theory: soviet and satellite economies; heraldry: Spain's role in Africa; duration of the American patent grant. Publ: Co-auth, Principles of economics; contrib, Encyclop. Brittanica; Pesch's concept of the living wage, Rev. Soc. Econ. Address: 3115 Ashlyn St, Pittsburgh, Pa. 15204.

GROSSCUP, PROF. GEORGE C(HARLES), b. Wenonah, N.J, May 27, 12; m. 41; c. 4. ECONOMICS, STATISTICS. A.B, Beloit Col, 37; A.M, Miami (Ohio), 40; Ph.D.(econ), Wisconsin, 46. From asst. prof. to assoc. prof. econ, Vermont, 46-50, dir. for. study prog, 48-50; PROF. BUS, MIAMI (OHIO), 50-, DIR, MIAMI UNIV. ABROAD, 52- Lectr, Cincinnati, 50-61. U.S.A.A.F, 42-46, Capt. Econ. Asn; Statist. Asn. Economic theory; history of economic thought. Publ: Federal consumer agencies; Wartime food subsidies. Address: Silvoor Lane, Oxford, Ohio 45056.

GROSSCUP, DR. GORDON L(EONARD), b. San Francisco, Calif, Jan. 5, 27. ANTHROPOLOGY. B.A, California, Berkeley, 50, M.A, 59, Ph.D.(anthrop), Los Angeles, 64. Teaching asst. anthrop, California, Berkeley, 52-55; vis. instr, Utah, 60-61, instr, 61-64, mus. curator, 61-63; ASST. PROF. ANTHROP, WAYNE STATE, 64- Summer lectr, California, Los Angeles, 64. U.S.N, 45-46. AAAS; fel. Am. Anthrop. Asn; Soc. Am. Archaeol. Archaeology of western North America, especially California, Nevada and west Mexico. Publ: A bibliography of Nevada archaeology, 57 & The culture history of Lovelock Cave, Nevada, 60, Univ. California Archaeol. Surv; A sequence of figurines from west Mexico, Am. Antiq, 61. Address: Dept. of Sociology & Anthropology, Wayne State University, Detroit, Mich. 48202.

GROSSE, DR. ROBERT N(ATHAN), b. New York, N.Y, Feb. 4, 23; m. 52; c. 3. ECONOMICS. A.B, Columbia, 44; M.A, Harvard, 46, Ph.D.(econ), 48. Instr. econ, Bates Col, 46-47; Rutgers, 47-49; economist, econ. res. proj, Harvard, 49-51; off. statist. standards, U.S. Bur. Budget, 51-53; cost anal. dept, Rand Corp, 53-63; head econ. & costing dept, Res. Anal. Corp, 63-66; DEP. ASST. SECY, U.S. DEPT. HEALTH, ED. & WELFARE, 66- Lectr, grad. sch, U.S. Dept. Agr, 53; vis. prof, Armed Forces Indust. Col, 65-66; lectr, summer insts, Michigan, 66-67. Consult, weapons systs. eval. group. Off. Secy. Defense, 53. Pub. Health Asn; Opers. Res. Soc; Am. Econ. Asn; Royal Econ. Soc. Governmental program planning and budgeting; analysis of health programs; cost-benefit analysis. Publ: Introduction to cost effectiveness analysis, Res. Anal. Corp, 7/65; co-auth, Defense management, Prentice-Hall, 67; Capital requirements for the expansion of industrial capacity. Address: 9002 Honeybee Lane, Bethesda, Md. 20034.

GROSSER, DR. BERNARD I(RVING), b. Boston, Mass, Apr. 19, 29; m. 60; c. 3. PSYCHIATRY, NEUROENDOCRINOLOGY. B.A, Massachusetts, 50; M.S, Michigan, 53; M.D, Western Reserve, 59. Intern med, affiliated hosps, UNIV. UTAH, 59-60, fel. PSYCHIAT, 60-65, ASST. PROF, COL. MED, 67- U.S. Pub. Health Serv. grants, training, 60-62, co-investr, 61-64, prin. investr, 62-65 & 68, res. career develop. awards, 62-65 & 67- U.S.A.F, 65-67, Capt. Psychiat. Asn; Am. Med. Asn. Interrelationships between steroid hormones and the brain; role of these hormones in human behavior. Publ: Geographic and astronomic distance responses by rated officers, Aeromed. Rev, 5/66; co-auth, Metabolism of 11-hydroxysteroids by cerebral tissues in vitro, 8:915 & Acetylation of cortisol by neonatal rat brain in vitro, 9:229, Steroids. Address: Dept. of Psychiatry, University of Utah College of Medicine, Salt Lake City, Utah 84112.

GROSSER, DR. GEORGE H(ERBERT), b. Vienna, Austria, Dec. 10, 18; nat; m. 46; c. 1. SOCIOLOGY. Soc. Sci. Res. Coun. fel, Harvard, 46-47, Ph.D. (sociol), 51. Asst. sociol, Harvard, 44-46; lectr. sociol. & soc. psychol, Indiana, 52-53; instr. sociol, Queens Col.(N.Y), 53-56, asst. prof, 56-60; ASSOC. PROF. SOC. SCI, SCH. MED, TUFTS, 65- Res. assoc, Harvard Med. Sch, 59-65. Fel. Sociol. Asn; Psychol. Asn. Criminology; general field of deviant behavior; social institutions and psychiatry; studies in the treatment of depression and community mental health. Publ: Co-auth, Human reactions to the threat of impending disaster, M.I.T, 65; Contrib, Theoretical studies in social organization of the prison. Address: Tufts Mental Health Unit, 260 Tremont St, Boston, Mass. 02116.

GROSSER, DR. GEORGE S(AMUEL), b. Boston, Mass, Aug. 14, 29. PSYCHOLOGY. A.B, Harvard, 51; A.M. Boston, 52, Ph.D, 57. Exp. psychologist, U.S. Army Chem. Center, Md, 57-58; asst. prof. PSYCHOL, AM. INT. COL, 58-64, ASSOC. PROF, 64- AAAS; Psychol. Asn; N.Y. Acad. Behavioral effects of stimulating or surgically isolating the visual cortex of the rat; animal learning in relation to drugs; separation of factors influencing performance rate from those affecting retained information. Publ: Co-auth, General psychology: selected readings, Van Nostrand, 67; Solution of a detour problem by rats in elevated and ground mazes, 65 & Magnesium Pemoline: activation of extinction responding after continuous reinforcement, 67, Psychol. Reports. Address: Dept. of Psychology, American International College, Springfield, Mass. 01109.

GROSSHOLTZ, DR. (THELMA) JEAN, b. McKean, Pa, Apr. 17, 29. POLITICAL SCIENCE. B.A, Pa. State, 56; Soc. Sci. Found. fel, Denver, 56-57, M.A, 57; univ. fel, Mass. Inst. Tech, 57-58, Wilson grant, 60-61, Ph.D. (polit. sci), 61; Fulbright grant, Philippines, 59-60. Instr. POLIT. SCI, Boston, 58-59; MT. HOLYOKE COL, 61-62, asst. prof, 62-67, ASSOC. PROF, 67- Nat. Sci. Found. res. fel, 65-66; Four Col. Asia & African Studies Prog. summer travel grant, 64. W.A.C, 49-53, Sgt. Asn. Asian Studies: Polit. Sci. Asn. Political development; political parties and leadership in Southeast Asia. Publ: Politics in the Philippines, Little, 64. Address: Dept. of Political Science, Mt. Holyoke College, South Hadley, Mass. 01075.

GROSSLIGHT, PROF. JOSEPH H(ENRY), b. Detroit, Mich, Dec. 28, 21; m. 52; c. 2. PSYCHOLOGY. B.A, California, Los Angeles, 43; M.A, Yale, 45, Sterling fel, 46-47, Ph.D.(psychol), 57. Asst. prof. PSYCHOL, Pa. State, 47-52, assoc. prof, 52-57, prof, 57-61; prof. & head dept, Kent State, 61-66; PROF. & CHMN. DEPT, FLA. STATE, 66- Dir. lab. & asst. prof, Los Angeles State Col, 50-51. Consult, Naval Training Devices Center contract, Pa. State, 48-52; Naval Electronics Lab-Univ. Southern California Res. Prog, 52; TV proj, Pa. State, 54-59; psychopharmacol. serv. center, Nat. Inst. Ment. Health, 59. U.S.A, 42-44. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc; Ecol. Soc; Asn. Aviation Psychol. Extention of learning theory in human and animal behavior; speech acquisition in mynahs; reactive inhibition; imprinting in fish and birds; patterning in partial reinforcement; level of aspiration in children. Publ: Co-auth, Perceptual factor: quantity of food available and consummatory behavior in chickens, 4-66 & The effect of patterns of partial reinforcement upon the response to frustrative non-reward, 6-66, Psychonomic Sci. & Verbal behavior and the mynah bird, In: Research in verbal behavior, Academic, 67. Address: Dept. of Psychology, Florida State University, Tallahassee, Fla. 32306.

GROSSMAN, DR. ALVIN, b. Chicago, Ill, Sept. 18, 24; m. 48; c. 1. COUNSELING, PSYCHOLOGY. B.S, Illinois, 47; M.Ed. Georgia, 50; Ed.D, Washington (Seattle), 61. Voc. counsr, Chicago Dept. Welfare, Ill, 47-48; intern psychol, Elgin State Hosp, Ill, 48-49; asst. prof. ed, Georgia, 50-51; psychologist, pub. schs, Wash, 52-57; guid. & res. consult, Off. Supt. Pub. Schs, Napa County, Calif, 57-59; consult, pupil personnel serv, CALIF. STATE DEPT. ED, 59-62, dir. res. & develop. center, 62-65, ed. data processing proj, 65-67, CHIEF BUR. SYSTS. & DATA PROCESSING, 66- Spec. data processing consult, Dept. of Health, Ed. & Welfare, 64; data processing consult, Systs. Develop. Corp, 64-67; Oregon State Dept. Ed. & Colorado State Dept. Ed, 65. West. ed, Ed. Data Processing Newsletter, 61. Chmn. state adv. cmt. integrated data processing, Calif, 60-67. U.S.A.A.F, 43-46; Med. Serv.C, 51-52, 1st Lt. Psychol. Asn. Use of electronic computers to solve pupil personnel problems in public secondary schools. Publ: Co-auth, Data processing for educators, Ed. Methods, Inc, 65; Data processing: a challenge of the future today; Dilemma of paperwork, Bul. Nat. Asn. Sec. Sch. Prins. Address: 721 Capitol Mall, Room 126, Sacramento, Calif. 95814.

GROSSMAN, DR. BRUCE DAVID, b. New Haven, Conn, Feb. 1, 36; m. 67. PSYCHOLOGY, EDUCATION. A.B, Yale, 58, M.A, Duke, 61, Ph.D.(psychol), 64. Res. asst. psychol, Duke, 58-59; teaching fel, 61-63; intern, Mass. Ment. Health Center, 63-64; asst. prof. child develop, Tufts, 64-65; ASSOC. PROF. ED. HOFSTRA, 65- Spec. lectr. Boston & Simmons Col, 63-64. Mem. bd. dirs, Summerville Child Guid. Clin, 64-65; Staff psychologist, S.Shore Child Guid. Clin, 66- Psychol. Asn; Soc. Res. Child Develop. Child development; preschool education; parent-child relations. Publ: Early childhood education and the new frontiers, Elem. Sch. J, 3/68; Extra-curricular parent-child contact and children's socially reinforced task behavior & Anxiety and responsiveness to social reinforcement, J. Genetic Psychol, 9/68. Address: Dept. of Child Development, Hofstra University, Hempstead, N.Y. 11550.

GROSSMAN, DR. DAVID, b. Dallas, Tex, Dec. 20, 21; m. 56; c. 2. CLINICAL PSYCHOLOGY. B.A, California, Los Angeles, 42; Ph.D.(clin. psychol), Southern California, 49. Lectr, Southern California, 49-; co-dir, Los Angeles Psychol. Serv. Center, 50-58; private practice, 58-; behav. sci. consult, Los Angeles County Probtn. Dept, 66-67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 56. U.S.A.A.F, 42-45. Psychol. Asn; Group Psychother. Asn. Individual and group psychotherapy; human relations as applied to teaching. Publ: An experimental investigation of apsychotherapeutic technique, J. Consult. Psychol; Clinical psychology: comments and suggestions, Am. Psychologist, 63; Ego-activating approaches to psychotherapy, Psychoanal. Rev, fall 64. Address: 415 N. Camden Dr, Beverly Hills, Calif. 90210.

GROSSMAN, DR. GREGORY, b. Kiev, Russia, July 5, 21; nat; m. 52; c. 2. ECONOMICS. B.S, California, 41, M.A, 43; Ph.D.(econ), Harvard, 53. Asst. prof. ECON, CALIFORNIA, BERKELEY, 53-58, assoc. prof, 58-62, PROF, 62- Guggenheim fel, 64-65. U.S.A, 43-46. Econ. Asn. Soviet economy;

comparative economic systems; economic history. Publ: Ed, Value and plan; auth, Soviet statistics of physical output, Princeton, 60; Economic systems, Prentice-Hall, 67. Address: Dept. of Economics, University of California, Berkeley, Calif. 94720.

GROSSMAN, PROF. JULES, b. Wichita, Kans, Sept. 25, 25; m. 55; c. 2. PSYCHOLOGY. B.A, California, 47, M.A, 50, Ph.D.(psychol), 53. PROF. PSYCHOL, SAN FRANCISCO STATE COL, 52- Res. assoc, inst. indust. rels, California, 53-54; private practice, 54-; asst. clin. prof, sch. med, Stanford, 55-56. Dipl. Am. Bd. Exam. Prfnl. Psychol. U.S.A, 43-46. Psychol. Asn. Individual, group and family psychotherapy; child and abnormal psychology; personality theory; supervision and training of clinical and school psychologists. Address: 228 Corte Madera Ave, Mill Valley, Calif. 94941.

GROSSMAN, DR. MAURICE, Psychiat, see 11th ed, Phys. & Biol. Vols.

GROSSMAN, MORTON C, b. Akron, Ohio, Mar. 1, 19. ECONOMICS. B.S, Pennsylvania, 42; M.S, Ohio, 47; univ. fel, Wisconsin, 47-49, Ford Found. fel, 52-53. From asst. prof. to assoc. prof. econ, Washington State, 49-60; Ford Found. consult planning, Govt. of India, 60-66; SR. RES. ASSOC, CENTER INT. AFFAIRS, HARVARD, 66- Consult, UN Econ. Cmn. Asia & Far East. Chief econ. br, U.S. Agency Int. Develop. Mission to India, 58-60. Am. Econ. Asn; Royal Econ. Soc; Indian Econ. Asn. International economics and development; theory. Publ: Readings in current economics, Irwin, 64; Trade and payments cooperation in ECAFE region, ECAFE, 5/68. Address: Center for International Affairs, Harvard University, 1737 Cambridge St, Cambridge, Mass. 02138.

GROSSMAN, PHILIP, b. Utica, N.Y, May 1, 24; m. 56; c. 3. ECONOMICS. A.B, Syracuse, 49, M.A, 51. Statistician, div. manpower & employ. statist, bur. labor statist, U.S. Dept. Labor, 51-55; bur. census, U.S. Dept. Commerce, 55-57; ECONOMIST, U.S. GOVT, 57- U.S.A, 43-46. Econ. Asn. General labor economics. Address: 8708 Fox Run, Potomac, Md. 20854.

GROSSMAN, DR. SEARLES A(ARON), b. Gloucester, N.J, Aug. 3, 15; m. 46; c. 3. PSYCHOLOGY. B.A, Temple, 35; M.A, Pennsylvania, 36, Ph.D.(psychol), 50; Chicago, 47; Pa. State, 48. Pupil personnel dir, high sch, 37-42; personal adjust. counsr, Vet. Admin, Phila, Pa, 46-50, staff psychologist, VET. ADMIN. HOSP, Coatesville, 50-52, CHIEF PSYCHOL. SERV, WILMINGTON, DEL, 52- Lectr. from Pa. State, Valley Forge Gen. Hosp, 50-52. Counsr, 48-; clin. psychol. consult, Correctional Coun. Del, 58-; Wilmington Med. Center, 64- U.S.A.A.F, 42-46. Fel. Psychol. Asn; fel. Soc. Proj. Tech; fel. Acad. Psychother; Personnel & Guid. Asn. Psychological and group counseling; projective techniques. Publ: A study of changes in personal adjustment; Psychological studies in planning and evaluating psychotherapy on a case of recurring depression; co-auth, Developmental study of self-social constructs of normals and the neurotic personality, J. Clin. Psychol, 1/67. Address: 4004 Coleridge Rd, Wilmington, Del. 19802.

GROSSMAN, PROF. SEBASTIAN P(ETER), Biopsychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GROSSMAN, PROF. WILLIAM LEONARD, b. New York, N.Y, Apr. 4, 06; m. 29; c. 2. BUSINESS ADMINISTRATION. B.A, Harvard, 27, M.A, 28, LL.B, 32; J.S.D, N.Y. Univ, 36. Asst. prof. transportation & pub. utilities, N.Y. Univ, 43-48; chmn. dept. transportation, Tech. Inst. Aeronaut, Brazil, 48-52; assoc. prof, N.Y. UNIV, 52-59, PROF, 59-65, BUS. ADMIN, 65- Consult, transportation co. & govt. agencies. Transportation Res. Forum; Soc. Traffic & Transportation; Acad. Polit. & Soc. Sci. Publ: Air passenger traffic, Remsen, 47; Ocean freight rates, Cornell Maritime, 56; Fundamentals of transportation, Simmons-Boardman, 59. Address: Dept. of Business Administration, New York University School of Commerce, New York, N.Y. 10003.

GROSSNICKLE, DR. WILLIAM F(OSTER), b. Nutley, N.J, Mar. 19, 30; m. 52; c. 2. PSYCHOLOGY. B.A, Duke, 51; M.A, George Washington, 58, Nat. Sci. Found. fel, 63-64, Ph.D.(psychol), 65. Employ. interviewer, West. Elec. Co, 54-58; employ. mgr, Blue Bell, Inc, 58-62; instr. PSYCHOL, George Washington, 65; ASSOC. PROF, EAST CAROLINA, 65- U.S.A, 52-54, Sgt. Psychol. Asn. Organizational behavior; leadership; selection techniques; small group behaviors. Address: Dept. of Psychology, East Carolina University, Greenville, N.C. 27834.

GROSVENOR, DR. GILBERT H(OVEY), Geog, see 10th ed, Soc. & Behav. Vols, deceased 66.

GROSVENOR, DR. MELVILLE BELL, b. Washington, D.C, Nov. 26, 01; m. 24, 50; c. 5. GEOGRAPHY. B.S, U.S. Naval Acad, 23; hon. D.Sc, Miami (Fla), 54; LL.D, George Washington, 59. Asst. chief illustrations div, NAT. GEOG. MAG, 24-35, asst. ed, 35-51, sr. asst. ed, 51-54, assoc, ed, 54-57, pres. & ed, 57-67, ED-IN-CHIEF & CHMN. BD. TRUSTEES, 67- Asn. Am. Geog; Am. Geog. Soc; Nat. Audubon Soc; Royal Geog. Soc. Publ: Ed, Everyday life in Bible times; This England; Water, prey, and game birds of North America. Address: National Geographic Society, Washington, D.C. 20036.

GROSZ, DR. HANUS J(IRI), b. Brno, Czech, Feb. 16, 24; m. 54; c. 3. PSYCHIATRY, NEUROLOGY. B.Sc, Wales, 50, M.B, B.Ch, 53; dipl. psychiat. med, Royal Col. Physicians & Surgeons, 61. Intern surg, East Glamorgan Hosp, 53; internal med, Swansea Gen. Hosp, 54; resident, Morriston Hosp, Gt. Brit, 54-55; psychiat, Warren State Hosp, 55-56; U.S. Pub. Health Serv. fel. & resident neurol, Albert Einstein Col. Med, 58-60; resident psychiat, Maudsley & Bethlem Royal Hosp. London, 60-62; SR. CLIN. INVESTR, INST. PSYCHIAT. RES, 63-; ASSOC. PROF. PSYCHIAT, MED. CENTER, INDIANA, 65- Chief neurol. & psychiat, Vet. Admin. Hosp, 63- Consult, Cent. Ind. Alcoholism Clin, 63; St. Anthony Hosp, 64-65; Vigo County Adult & Child Guid. Clin. 64-66; Ind. Girls Sch, Ind. Dept. Corrections, 64-67. Dipl, Am. Bd. Neurol. & Psychiat, 67. Col. Physicians; Am. Med. Asn; Psychiat. Asn; Group Psychother. Asn; fel. Col. Physicians; Brit. Med. Asn; Royal Medico-Psychol. Asn. Clinical psychiatry; behavioral sciences; neuroanatomy; neurophysiology; neurochemistry; group psychotherapy; alcoholism; juvenile delinquency; hypnotherapy; behavior therapy and conditioning. Publ: The reduction-oxidation potential of blood as a function of pO_2, Nature, London, 66; The relation of serum ascorbic acid level to adrenocortical secretion during experimentally induced emotional stress in human Subjects, J. Psychosomatic Res, 61; Experimental analysis of hysterical blindness, Arch. Gen. Psychiat, 65. Address: Dept. of Psychiatry, Indiana University, Indianapolis, Ind. 46207.

GROTBERG, PROF. EDITH HENDERSON, b. Chicago, Ill, Feb. 5, 23; m. 46; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Northwestern, 38, Rockefeller Found. fel. & Ph.D.(ed. psychol), 58; A.M, Chicago, 40. Instr. hist, Puerto Rico, 43-45; mem. staff cultural rels, Mexico, 45-46; instr. ed, Northern Illinois, 55-57, asst. prof, 57-59, assoc. prof. psychol, 59-63; ED, AMERICAN UNIV, 63-67, PROF, 67- Res. assoc, Inst. Ed. Res, 66-67. Dir, Fel. Prog. Training Personnel in Learning Disabilities, 67- Consult, Fund Adv. Ed. & Ford Found, 57-60; proj. family schizophrenia, Nat. Inst. Ment. Health, 64-66; proj. head start, Off. Econ. Opportunity, 67- Psychol. Asn. Diagnostic and corrective work for children with learning disabilities; research on reading and the disadvantaged; developing research areas and programs for disadvantaged pre-school population. Publ: Co-auth, The teaching of reading—a developmental process, Heath, 66; auth, Progressive choice reading instruction in the Prince Edward County school system Inst. Ed. Res, 67; Learning disabilities and remediation in disadvantaged children, Rev. Ed. Res, 12/65. Address: Dept. of Education, American University, Washington, D.C. 20016.

GROTE, DR. MANFRED, b. Sulingen, Germany, Sept. 3, 38; m. 66; c. 1. POLITICAL SCIENCE. B.A, Kansas, 60, M.A, 62; Hamburg, 62-63; Ph.D.(polit. sci), Maryland, 67. ASST. PROF. POLIT. SCI, PURDUE, CALUMET CAMPUS, 67- Polit. Sci. Asn; Soc. Int. Law. International relations, law and organization; Eastern European political and economic developments; West German politics. Address: Dept. of Political Science, Purdue University, Calumet Campus, Hammond, Ind. 46323.

GROTEWOLD, PROF. ANDREAS, b. Berlin, Germany, July 15, 27; m. 54; c. 2. GEOGRAPHY. M.A, Clark, 51; Ph.D.(geog), Chicago, 55. Vis. asst. prof. GEOG, MISSOURI, 55-56, asst. prof, 56-62, assoc. prof, 62-66, PROF, 66- Vis. prof, Erlangen, 63. Asn. Am. Geog; Econ. Asn; Regional Sci. Asn. Regional economic analysis; location theory; international economics; Western Europe. Publ: Von Thünen in retrospect, 59 & Some aspects of the geography of international trade, 61, Econ. Geog; World exports of non-mineral primary products, Am. J. Econ. & Sociol, series of three papers, 66-67. Address: Dept. of Geography, University of Missouri, Columbia, Mo. 65201.

GROTH, DR. ALEXANDER J, b. Warsaw, Poland, Mar. 7, 32; U.S. citizen; m. 61; c. 2. POLITICAL SCIENCE. B.A, City Col. New York, 54; M.A, Columbia, 55, Ph.D.(polit. sci), 60. Instr. POLIT. SCI, City Col. New York, 60-61; asst. prof, State Univ. N.Y. Binghamton, 61-62; CALIFORNIA, DAVIS, 62-67, ASSOC. PROF, 67- Am. Coun. Learned Socs. & Soc. Sci. Res. Coun. grant, 65-66; Humanities Inst. summer res. grant, California, Davis, 67. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Comparative politics; International relations; Poland and Eastern Europe; Western Europe. Publ: Intelligence aspects of personal diplomacy, Orbis, 2/64; The isms in totalitarianism, Am. Polit. Sci. Rev, 12/64; Polish elections, 1919-1928, Slavic Rev, 12/65. Address: Dept. of Political Science, University of California, Davis, Calif. 95616.

GROTH, DR. HILDE, b. Pinneberg, Germany, July 30, 21; nat; m. 41; c. 1. PSYCHOLOGY. A.B, California, Los Angeles, 53, Ph.D, 57. Asst. aerodynamics, Aeronaut. Res. Inst, Germany, 41-43; from asst. psychologist to assoc. psychologist, California, Los Angeles, 54-65; res. psychologist, HAWAII, 65-66, ASSOC. PROF. PSYCHOL, 66- Dept. Health, Ed. & Welfare res. grant, Yugoslavia, summer, 64. Psychol. Asn; Human Factors Soc. (ed, bull, 58); Int. Coun. Psychol.(secy, 57). Perceptual-motor skills; developmental psychophysiology emphasizing early sensory development and responsivity. Publ: Measurement methodology for perceptual-motor performance under highly transient extreme heat stress, Human Factors, vol. 5, 63 & co-auth, Skill acquisition in multidimensional manipulator control, vol. 2, 67, Human Factors; Myoelectric and mechanical outputs of isolated muscles for skilled control applications, Ergonomics, vol. 8, 65. Address: 1777 Ala Moana Blvd, Apt. 1010, Honolulu, Hawaii 96815.

GROTJAHN, DR. MARTIN, Psychiat, see 11th ed, Phys. & Biol. Vols.

GROUT, HAROLD A(LDEN), Actuarial Sci, see 10th ed, Soc. & Behav. Vols.

GROVE, PROF. ARTHUR M, b. St. Paul, Minn, June 6, 09. GEOGRAPHY. B.Ed, Moorhead State Col, 39; M.S, Kentucky, 49, Ed.D.(geog), 52; McGill, 50. Cartographer, U.S. Govt. Agencies, 42-45; analyst, UNRRA, 46-47; PROF. GEOG, MANKATO STATE COL, 51- Vis. prof, African Workshop, E.Carolina State Col, Ft. Bragg, 63; Northeast Mo. State Teachers Col. Kirksville, 64; Fulbright grant & mem. ed. workshop team, Univ. Karachi, 59-60. Nat. Coun. Geog. Ed; Asn. Am. Geog. Minnesota; Asia; Africa. Address: Dept. of Geography, Mankato State College, Mankato, Minn. 56001.

GROVE, DR. DAVID L(AWRENCE), Finance, see 10th ed, Soc. & Behav. Vols.

GROVE, DR. ERNEST W(ILSON), b. New Kensington, Pa, June 14, 10; m. 47; c. 2. ECONOMICS. A.B, California, 32, Ph.D.(econ), 48. Agr. economist, U.S. DEPT. AGR, 36-41, 46-53, head farm income estimates sect, agr. econ. div. & ed, Farm Income Situation, 54-60, staff asst, price div, AGR. STABILIZATION & CONSERV. SERV, 61-63, STAFF ECONOMIST, 63- Perm. mem, conf. res. income & wealth, Nat. Bur. Econ. Res. U.S.A, 42-45, Lt. Col; Legion of Merit, 46. Fel. AAAS; Econ. Asn; Statist. Asn; Agr. Econ. Asn. National income analysis; farm prices and price supports; agricultural policy and programs; farm and land classification. Publ: The new dichotomy in agriculture, 5/63, State variations in farm program payments, 5/65 & Realized farm income: an outmoded concept?, 11/67, J. Farm Econ. Address: 5429 S. Fifth St, Arlington, Va. 22204.

GROVE, PROF. J(ACK) W(ILLIAM), b. London, Eng, Apr. 11, 20; m. 50; c. 2. POLITICAL SCIENCE. B.Sc, London, 49. Res. asst, Manchester, 50, asst. lectr. govt, 51-52, lectr, 52-62, sr. lectr, 62-64, reader, 64-65; PROF. POLIT. STUDIES, QUEEN'S (ONT), 65- Rockefeller traveling fel, U.S, 52-53; acad. adv, Inst. Pub. Admin, Zaria, Nigeria, 62-65. Ed, Monogr. Polit, Barnes & Noble, 63- Brit. Army, 40-46. Am. Polit. Sci. Asn; Inst. Pub. Admin. Can; Can. Polit. Sci. Asn; Polit. Studies Asn. U.K; Royal Inst. Pub. Admin; Hansard Soc. Modern political theory; public administration; science and public policy; government and industry. Publ: Co-auth, Central administration in Britian, 57 & auth, Government and industry in Britain, 62, Longmans Green, English regional government, Royal Inst. Pub. Admin, 50. Address: Dept. of Political Studies, Queen's University, Kingston, Ont, Can.

GROVE, DR. ROBERT D(UNKLE), b. West Milton, Pa, Apr. 6, 10; m. 39; c. 2. STATISTICS. A.B, Bucknell, 31; A.M, Syracuse, 33, Ph.D.(polit. sci), 38. Asst. statistician, Worcester State Hosp, 38; vital statistician, bur. census, U.S. Dept. Commerce, 38-43; chief anal. sect, div. statist, War Shipping Admin, 43-46; from prog. coordinator to asst. chief, nat. off. vital statist, U.S. PUB. HEALTH SERV, 46-63, DIR. DIV. VITAL STATIST, NAT. CENTER HEALTH STATIST, 63- Statist. Asn; fel. Pub. Health Asn; Pop. Asn. Political attitudes and techniques; vital statistics of birth and death. Publ: Co-auth, Vital statistics rates in the United States, 1900-40 & Vital statistics rates in the United States, 1940-1960, Govt. Printing Off, 67. Address: 2114 N. Powhatan St, Arlington, Va. 22205.

GROVE, DR. WILLIAM R(ICHARD), b. Bradford, Pa, June 21, 05; m. 31, 60; c. 1. CLINICAL PSYCHOLOGY. A.B, Muskingum Col, 28; A.M, Pittsburgh, 31, Ph.D.(psychol), 37. Asst. psychologist, West. Pa. Penitentiary, 30-37; psychologist, behav. clin, Criminal Court, Pittsburgh, 37-41; asst. prof. psychol, Pittsburgh, 41-44, assoc. prof, 44-47, prof, 47-48; dir. child study serv, pub. schs, Ariz, 48-51; chief clin. psychol. serv, Vet. Admin. Hosp, Palo Alto, Calif, 51-57; Vet. Admin. Center, Wadsworth, Kans, 57-58; psychologist, Vet. Admin. Hosp, Pittsburgh, Pa, 58-59; Behav. Clin. of Criminal Court, 59-63; psychologist, West. Pa. Geriat. Center, 63-67; CLIN. PSYCHOLOGIST, 67- Fel. Psychol. Asn. Psycho-clinical procedures; problems of aging. Address: 6519 Northumberland, Pittsburgh, Pa. 15217.

GROVER, DR. MORRIS LEE, Pub. Health, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

GROVER. DR. WAYNE C(LAYTON), b. Garland, Utah, Sept. 16, 06; m. 35; c. 4. POLITICAL SCIENCE. PUBLIC ADMINISTRATION. A.B, Utah, 30; A.M. American Univ. 37. Ph.D. 46; hon. L.L.D. Brown, 56. Bucknell, 60. Belmont Abbey Col. 64. Archivist, div. war dept. archives, Nat. Archives, 35-41; tech. asst. to bd. of analysts. Off. Strategic Serv, 41-43; chief records mgt. sect. U.S. Dept. War. 46-47; asst. archivist, U.S. Nat. Archives, 47-48, archivist. 48-65; CONSULT. 66- Consult, Can. Royal Cmn. Govt. Orgn, 61; Bishop Mus, Hawaii, 66; Lyndon Baines Johnson Presidential Library, Tex, 66- V.pres. Int. Coun. Archives, 50-53. Nat. Civil Serv. League award, 62. U.S.A. 43-46. Lt. Col; Legion of Merit, 46. Polit. Sci. Asn; Hist. Asn; fel. Soc. Archivists (pres. 54). Archival administration; war records administration program of the War Department. Address: 2303 Linden Lane, Silver Spring, Md. 20910.

GROVES, PROF. HAROLD M(ARTIN), b. Lodi, Wis, Oct. 3, 97. ECONOMICS. Ph.B, Wisconsin, 19, Ph.M, 20, Ph.D, 27; Harvard, 20-21. From asst. prof. to assoc. prof, ECON, WISCONSIN, MADISON, 32-37, PROF, 37- Mem, State Assembly, Wis, 30-32, state tax cmnr, 32, state senator, 34-; mem, cmt. intergovt. fiscal rels, U.S. Dept. Treas, 41-42; Cmt. Econ. Develop, 44; Milwaukee Econ. Surv, 48; chmn, Nat. Bur. Econ. Res, 61-63. Econ. Asn.(v.pres, 44). Public finance; taxation; public utility taxation in Wisconsin. Address: Dept. of Economics, Social Science Bldg, University of Wisconsin, 1180 Observatory Dr, Madison, Wis. 53706.

GROVES, PROF. JAY V(OELKER), b. Minneapolis, Minn, Aug. 4, 22; m. 48; c. 3. ECONOMICS. B.S, Minnesota, 43, M.A, 46; Nebraska, 48, 49; Wyoming, 50; Michigan, 52-54; M.A, West Virginia, 67. Prof. soc. sci, Nebr. Cent. Col, 49-52; polit. sci. & sociol, Potomac State Col, 54-58; asst. prof. econ, W.Va. Wesleyan Col, 58-65; lectr, West Virginia, 65-68; ASSOC. PROF. ECON. & SOC. SCI, W. VA. WESLEYAN COL, 68- Mem. Nat. Coun. Soc. Studies. Econ. Asn; Asn. Asian Studies; Mid. East Inst. Economic history; regional economics; economic policy; Asia. Address: 118 Barbour St, Buckhannon, W.Va. 26201.

GROVES, DR. M(ARION) H(ERBERT), b. Medicine Lodge, Kans, Feb. 18, 10; div; c. 1. PSYCHOLOGY. B.A, Phillips, 33; Ph.D.(psychol), Chicago, 50. Chief psychologist, Cook County Criminal Court, 43-45; instr, Chicago, 45-47; lectr. & dir. psychol. lab, California, 47-49; asst. prof. PSYCHOL, ILL. INST. TECH, 50-54, ASSOC. PROF, 54-, ASSOC. DEAN GRAD. SCH, 58-asst. dean, 51-58. Lectr, med. sch, Northwestern, 55- Consult, Ventura County Juvenile Court, Calif, 48-49. AAAS; Psychol. Asn; Soc. Eng. Ed; Nat. Asn. For. Student Affairs. Psychopathology; neuropathology; learning theory. Publ: Contrib, Neurological theory of learning, Behav. Sci; Some relationships among mental abilities and mental aberrations & co-auth, Personality, emotional and organic changes in patients with cardiac conditions and patients undergoing commissurotomies, Am. Psychologist. Address: Dept. of Psychology, Illinois Institute of Technology, Chicago, Ill. 60616.

GRUBB, DR. EDWARD L(EE), b. Wenatchee, Wash, May 16, 34; m. 55; c. 3. MARKETING. B.A, Washington (Seattle), 56, D.B.A, 65; M.S, Oregon, 60. Bursar, Wenatchee Valley Col, 57-59; instr. bus, West. State Col. Colo, 60-61; acting part-time instr. mkt, Washington (Seattle), 61-64; asst. prof. bus. orgn. & mgt, Nebraska, 64-66; MKT, PORTLAND STATE COL, 66-67, ASSOC. PROF, 67- Mkt. Asn. Behavioral sciences and marketing, particularly relationship of self-theory to consuming behavior; role and function of information to consumer decision process. Publ: Co-auth, Consumer self-concept, symbolism, and market behavior: a theoretical approach, J. Mkt, 10/67: auth, The consumer decision process: a key to successful advertising. Univ. Washington Bus. Rev, fall 67; co-auth, Perception of self, generalized stereotypes, and brand selection, J. Mkt. Res, 2/68. Address: Dept. of Marketing, School of Business Administration, Portland State College, Box 751, Portland, Ore. 97207.

GRUBB, DR. HERBERT W(ARREN), b. Wytheville, Va, Nov. 21, 36; m. 58; c. 2. AGRICULTURAL & RESOURCE ECONOMICS. B.S, Berea Col, 58; M.S, Okla. State, 60; Ph.D.(agr. econ), N.C. State, 64. Asst. prof. AGR. ECON, TEX. TECH. COL, 64-66, ASSOC. PROF, 66- Vis. prof, Alberta, 65-66; consult, Tex. Water Develop. Bd, 65- Agr. Econ. Asn. General agricultural, natural resource and production economics; farm management; econometrics. Publ: Co-auth, Dairy farm organization, Central and Northeast Oklahoma, Okla. State Univ, 61 & Benefits and costs of soil conservation in the South, N.C. Agr. Exp. Sta, 66; auth, Importance of irrigation water to the economy of the Texas high plains, Tex. Water Develop. Bd, 66. Address: Dept. of Agricultural Economics, Texas Technological College, Lubbock, Tex. 79409.

GRUBBS, DR. CLIFTON MADISON, b. Ft. Worth, Tex, July 4, 25; m. 52; c. 2. ECONOMICS. B.B.A, Texas, 49, M.A, 55; M.A, Harvard, 58, Ph.D.(econ), 63. Asst. prof. ECON, Massachusetts, 59-60; Colorado, 60-65; ASSOC. PROF, TEXAS, AUSTIN, 65- Mem. econ. cmt, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 67. U.S.M.C, 43-45 & 50-52, Res, 52-61, Maj. Econ. Asn; Statist. Asn. Highway development and financing. Address: Dept. of Economics, University of Texas, Austin, Tex. 78712.

GRUBBS, DR. DAVID HAROLD, b. Fairview, Pa, Nov. 15, 29; m. 53; c. 3. POLITICAL SCIENCE. B.A, Maryville Col.(Tenn), 51; M.A, Tennessee, 53; Ph.D, Pennsylvania, 61. Instr. govt, Colby Col, 55-57; asst. prof. polit. sci, Tennessee, 57-64; res. dir, Tenn. State Planning Cmn, 62-66; ASSOC. PROF. POLIT. SCI, MIDDLE TENN. STATE, 66- Polit. Sci. Asn; Soc. Pub. Admin. Publ: Approach to metropolitan problems, In: Tennessee planner; City-county cooperative agreements in our four metropolitan areas, In: Tennessee town and city; Legal aspects of city-country consolidation, Tenn. Law Rev, 63. Address: 310 Eventide Dr, Murfreesboro, Tenn. 37130.

GRUBBS, DR. FRANK E(PHRAIM), Math. statist, Opers. anal, see 11th ed, Phys. & Biol. Vols.

GRUBBS, DR. FRANK L(ESLIE), JR, Am. & Brit. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GRUBEL, DR. HERBERT G, b. Frankfurt, Germany, Feb. 26, 34; U.S. citizen; m. 58; c. 2. ECONOMICS. B.A, Rutgers, 58; Ph.D.(econ), Yale, 62. Asst. instr. econ, Yale, 61-62; asst. prof, Stanford, 62-63; Chicago, 63-66; ASSOC. PROF. FINANCE, PENNSYLVANIA, 66- Nat. Sci. Found. res. grant, 67-68. Econ. Asn; Royal Econ. Asn. International finance; migration of skilled manpower. Publ: Forward exchange, speculation, capital flows, Stanford, 66; The brain drain: United States policy dilemma, Science, 66; Intra-industry specialization and pattern of trade, Can. J. Econ, 67. Address: Dept. of Finance, University of Pennsylvania, Philadelphia, Pa. 19104.

GRUBER, ALAN R(ICHARD), Eng, Econs, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GRUBER, DR. ALIN, b. Lynn, Mass, June 10, 32; m. 56; c. 2. INDUSTRIAL & ENGINEERING PSYCHOLOGY. A.B, Dartmouth Col, 53; M.S, Purdue, 57, Ph.D, 59. Sr. psychologist, Dunlap & Assocs, Inc, 59-64; assoc. res. dir, Marplan, Interpub, Inc, 64-67; RES. DIR, McCANN-ERICKSON, INC, 67- Evening lectr, Bridgeport, 60-65. U.S.N, 53-55, Lt. Psychol. Asn; Human Factors Soc; Asn. Pub. Opinion Res. Design, conduct and application of research in the areas of market description and analysis; advertising and communications evaluation; new product consumer testing; consumer package design testing; consumer psychology. Publ: Sensory alternation and performance in a vigilance task, Human Factors, 6/64; co-auth, Sensitivity, reliability and consumer taste testing, J. Mkt. Res, 66; Position effects and the starch viewer impression studies, J. Adv. Res, 6/66. Address: 113 Westwood Rd, Stamford, Conn. 06902.

GRUBER, DR. HELMUT, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GRUBER, PROF. HOWARD E(RNEST), b. Brooklyn, N.Y, Nov. 6, 22; m. 53; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 43; Ph.D, Cornell, 50. Asst, Cornell, 46-50; asst. prof. PSYCHOL, Queen's (Can), 50-52; Colorado, 52-57, assoc. prof, 57-63, faculty fel, 58; prof. & chmn. dept, grad. faculty, New Sch. Soc. Res, 63-66; PROF, INST. COGNITIVE STUDIES, RUTGERS, 66- Vis. lectr, Univ. Col, London, 55; Fund Adv. Ed. fel, 55-56; vis. prof, Cornell, 62-65; Nat. Inst. Ment. Health spec. fel. & vis. mem, Int. Center for Genetic Epistemology, Geneva, 65; res. assoc, Harvard Prog. Tech. & Society, 66-68. Consult, Denver Pub. Sch. Syst, 60-62. Sig.C, U.S.A, 43-46. Fel. AAAS; Psychol. Asn; Hist. Sci. Soc; Psychonomic Soc; Soc. Psychol. Study Social Issues. Experimental and educational psychology; perception; thinking; history of science. Address: Institute for Cognitive Studies, Rutgers, The State University, Newark, N.J. 07102.

GRUBER, PROF. JACOB W(ILLIAM), b. Pittsburgh, Pa, Feb. 26, 21; m. 46; c. 3. ANTHROPOLOGY. A.B, Oberlin Col, 42, A.M, 47; Ph.D.(anthrop), Pennsylvania, 52. Instr. ANTHROP, N.Y. Univ, 47-48; TEMPLE, 48-52, asst. prof, 52-57, assoc. prof, 57-64, PROF, 64-, CHMN. DEPT, 63- Nat. Sci. Found. res. grant, 65. U.S.A, 42-45. Fel. AAAS; fel. Anthrop. Asn; Asn. Phys. Anthrop; Soc. Archaeol; Hist. Sci. Soc. American archaeology; history of science and anthropology; physical and cultural anthropology. Publ: Conscience in conflict: life of St. George Mivart & ed, Philadelphia anthropological society, 67, Columbia; auth, Horatio Hale and the development of American anthropology, Proc. Am. Philos. Soc, 67. Address: Dept. of Anthropology, Temple University, Philadelphia, Pa. 19122.

GRUBER, DR. W(ILLIAM) H(ARRIS), b. Boston, Mass, Mar. 6, 35; m. 62; c. 3. ECONOMICS, MANAGEMENT. B.S, Pennsylvania, 56; Ph.D.(econ), Mass. Inst. Tech, 65. Intern, prog. in tech. prod. dept, Gen. Elec. Co, 54-55, instrument dept, 56-57; asst. to dir. Scanlon Plan, Union-Mgt. Coop, 58-59; dir. mkt, Cambridge Commun. Corp, 60-61; ASST. PROF. MGT, SLOAN

SCH. MGT, MASS. INST. TECH, 62-, LECTR, 64- Res. grants, NASA, 63-, Harvard Univ. Prog. Tech. & Society, 67-; Nat. Sci. Found, 68. Econ. consult, cmt. govt. patent policy, fed. coun. sci. & tech, Exec. Off. of President, 66-; consult. & del, Atlantic Inst, 67- AAAS; Econ. Asn; Indust. Rels. Res. Asn; Inst. Mgt. Sci. Labor economics; management of research and development; management information. Publ: The use of labor force participation and unemployment rates as a test for structural difficulties, Proc. Indust. Rels. Res. Asn, 12/65; co-auth, The research and development factor in international trade and international investment of United States industries, J. Polit. Econ, 2/67; auth, Behavioral science, systems analysis, and the failure of top management, Indust. Mgt. Rev, fall 67. Address: Dept. of Management, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

GRUBERG, DR. MARTIN, b. New York, N.Y, Jan. 28, 35; m. 67. POLITICAL SCIENCE. B.A, City Col. New York, 55; Ph.D.(pub. law, govt), Columbia, 63. Agent & adjudicator, U.S. Dept. State, 60-61; instr. POLIT. SCI, Hunter Col, 61-62; from asst. prof. to ASSOC. PROF, WIS. STATE, OSHKOSH, 63- Wis. Regent's res. grants, 64-66, 67-68 & instnl. res. grant, 67-68. Polit. Sci. Asn; Law & Society Asn. Publ: Women in American politics, 4/68; The bolters: causes and consequences of party disloyalty, in prep. Address: Dept. of Political Science, Wisconsin State University, Oshkosh, Wis. 54901.

GRUCHY, PROF. ALLAN G(ARFIELD), b. Vancouver, B.C, Nov. 17, 06. ECONOMICS. B.A, British Columbia, 26; M.A, McGill, 29; Ph.D, Virginia, 32. Acting asst. prof, Virginia, 32-33; prof. econ, Col. of St. Thomas, 33-35; instr. finance, Ohio, 35-37; PROF. ECON, MARYLAND, 37- Res. assoc, Va. Inst. Res. Soc. Sci, 36. Econ. Asn. Economics of national planning; institutional economic thought; comparative economic systems. Publ: Supervision and control of Virginia state banks; Modern economic thought; Comparative economic systems, Houghton, 66. Address: 7011 Wake Forest Dr, College Park, Md. 20740.

GRUEHR, PROF. ANATOLE RUDOLPH, Econ, see 10th ed, Soc. & Behav. Vols.

GRUEN, DR. A(RNO), b. Berlin, Germany, May 26, 23; nat; m; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 46, fel, 47-48; M.A, N.Y. Univ, 48, Ph.D, 52. Intern psychol, Bellevue Psychiat. Hosp, New York, 48-49, staff psychologist, 49-52; instr. psychiat, col. med, State Univ. N.Y. Downstate Med. Center, 52-54; dept. psychol, Queens Col.(N.Y), 54-55; City Col. New York, 55-56; asst. prof, N.Y. Univ, 57-58; res. assoc. neurol, med. col, Cornell, 58-61; RES. CONSULT, DEPT. PSYCHIAT, MAIMONIDES HOSP, 61- Vis. prof, Rutgers, 64- Private practice, 54-; sr. clin. psychologist, adult counseling center, med. col, Cornell, 54-56, consult, 56-58; coordinator clin. psychol, Northside Center Child Develop, 56-60. Consult, State Dept. Ment. Hyg, N.Y, 57- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. U.S.A, 43-46. Psychol. Asn; Psychol. Asn. for Psychoanal. Psychoanalysis; psychotherapy; perception. Publ: Rorschach: some comments on predicting structured behavior from reactions to unstructured stimuli, J. Proj. Tech; Psychological aging as a pre-existing factor in strokes, J. Nervous & Ment. Disease; The couch or the man?, The Psychoanal. Rev, 67. Address: 310 W. 86th St, New York, N.Y. 10024.

GRUEN, DR. DOLORES COLEN, b. Erie, Pa, Aug. 6, 24; m. 48; c. 3. PSYCHOLOGY. B.S, Ohio State, 44, M.A, 45; Ph.D, Chicago, 52. Lectr. psychol, Roosevelt, 47-51, student counsr, 47-50; private consult, Ed. Diag. Serv, Ill, 56-60; SCH. PSYCHOLOGIST, DOWNERS GROVE PUB. SCHS, 60- Psychol. Asn. Diagnosis and treatment of children with perceptual handicaps; development of in-service training program with special educators. Publ: Adjustment of older physicians, In: Meaning of work. Address: 1324 W. 59th St, Downers Grove, Ill. 60515.

GRUEN, EDWARD D(IETRICH), b. Dayton, Ohio, July 16, 09; m. 42; c. 1. ECONOMICS. A.B, Dartmouth Col, 31; Duke, 40-41, 47-49, 55. Economist, War Prod. Bd, 41-47; asst. prof. finance, Cincinnati, 47-48; statist. & finance, Amos Tuck Sch, Dartmouth Col, 48-54; res. economist, Mach. Inst, 54-55; chief paper, printing & pub, U.S. Bur. Census, 56-63; Agency Int. Develop. econ. census adv, Bur. Census & Statist, Govt. Philippines, 63-64; supvry. statistician, U.S. BUR. CENSUS, 65-67, chief res. & develop. data br, 67-68, CHIEF COMMODITY & MAT. DATA BR, 68- Consult, Rand Corp, 51-52; chief technician for Census Bur, prep. of Census-Fed. Reserve benchmark indexes of prod. for 58 & 63. Econ. Asn; Statist. Asn. Industrial economics, production indexes and input-output analysis; forest economics and utilization. Publ: Wood flour & Hardwood pulp, Monthly Rev. Fed. Reserve Bank Boston; Economics of wood residue utilization, J. Forest Prod. Res. Soc. Address: U.S. Bureau of Census, Room 2119, Federal Office Bldg. 4, Washington, D.C. 20233.

GRUEN, DR. WALTER, b. Frankfurt, Germany, June 27, 20; nat; m. 54; c. 1. PSYCHOLOGY. M.B, London, 38; B.A, California, Los Angeles, 42; M.A, California, 49, Ph.D, 50. Res. assoc. personality res, Illinois, 50-52, asst. prof, inst. labor & indust. rels. & psychol. dept, 52-53; asst. prof. & res. assoc, cmt. human develop, Chicago, 53-55; asst. prof. psychol, Buffalo, 55-59; res. psychologist, Beth Israel Hosp, Boston, Mass, 59-61; res. soc. psychologist, Vet. Admin. Hosp, Canandaigua, N.Y, 61-66; COORDINATOR SOC. SCI. RES, R.I. HOSP, PROVIDENCE, 66- Res. assoc, Harvard, 59-61; lectr, Hobart & William Smith Cols, 61-66. Consult, Park Col, 54-55. Dipl, Am. Bd. Exam. Prfnl. Psychol, 63. U.S.A, 43-46. AAAS; fel. Psychol. Asn; Group Psychother. Asn; Soc. Gen. Syst. Res. Theory of personality; personality and culture and problems of national character; effect of group membership on human behavior. Publ: Behavioral correlates of some dimensions of the cognitive field, J. Personality; Rejection of false information about oneself as an indication of ego-identity, J. Consult. Psychol; co-auth, Determinants for verbal communication among strangers, Psychol. Reports. Address: Rhode Island Hospital, Providence, R.I. 02902.

GRUENBERG, FREDERICK P(AUL), b. Minneapolis, Minn, Nov. 19, 84; m. 09; c. 2. POLITICAL SCIENCE. B.C.S, N.Y. Univ, 11; Pennsylvania, 16-18. Pub. serv. cmnr, Pa, 31-37; in charge surv. govt. res, Soc. Sci. Res. Coun, 37-38; area rent dir, Off. Price Admin, 42-44; exec. officer, Samuel S. Fels. Fund, 44-59, secy-treas, 44-52, treas, 52-59; RETIRED. Polit. Sci. Asn; Soc. Pub. Admin; Govt. Res. Asn. Economics; sociology. Address: 1530 Locust St, Philadelphia, Pa. 19102.

GRUENBERG, DR. GLADYS W(ALLEMAN), b. Milwaukee, Wis, June 22, 20; m. 46; c. 3. ECONOMICS. A.B, Marquette, 40; A.M, St. Louis, 49, Ph.D, 52. Instr. econ, St. Louis, 47-53, asst. prof, 53-56; PRIVATE RES, 56- Econ. Asn; Indust. Rels. Res. Asn. Labor law and relations; union organization. Address: 801 Jackson St, St. Louis, Mo. 63130.

GRUENER, PROF. JENNETTE ROWE, b. New Haven, Conn, Oct. 5, 01. SOCIOLOGY. A.B, Wellesley Col, 23, A.M, 25; Harvard, 24, 27-28; Ph.D, Bryn Mawr Col, 35. Asst. prof, sch. soc. work, Boston, 39-42; mem. staff, Am. Red Cross, 42-45; sociol. & soc. work, Missouri, 46-50, assoc. prof. SOC. WORK, 50-55; SCH. SOC. WORK, ILLINOIS, 55-59, PROF, 59- Fulbright lectr, Soc. Serv. Acad, Ankara, Turkey, 64-65. Sociol. Asn; Nat. Asn. Soc. Workers. Publ: Community problems; Medical care for indigents in Missouri; co-auth, Licensing of family homes in child welfare, Wayne State, 65. Address: 2909 Sheridan Rd, Chicago, Ill. 60657.

GRUENEWALD, PROF. W(ENDELL) L(eROY), b. Stewardson, Ill, July 17, 16; m. 39; c. 3. POLITICAL SCIENCE. B.Ed, East. Ill. State Col, 38; M.A, Illinois, 43; univ. fel, Syracuse, 49-50, D.S.S.(polit. sci), 50. Teacher, high sch, Ill, 38-44, 46-47; asst. prof. hist. & govt, East. Ill. State Col, 47-48; POLIT. SCI, BALL STATE, 50-53, assoc. prof, 53-59, PROF, 59-, CHMN. DEPT, 65- U.S.A, 44-46. Polit. Sci. Asn; Soc. Pub. Admin; Pub. Personnel Asn. Public law and administration; collective bargaining in the civil service of United States, United Kingdom and Federal Republic of Germany. Publ: Co-auth, Civics for Americans, Macmillan, 65; Rutherford B. Hayes & Grover Cleveland, In: Encyclop. Britannica Jr. Address: Route 1, Box 358, Muncie, Ind. 47302.

GRUENFELD, DR. LEOPOLD W(ILHELM), b. Berlin, Germany, May 12, 27; nat; m. 59; c. 1. PSYCHOLOGY. B.A, Roosevelt, 56; M.S, Purdue, 57, Ph.D, 60. Asst. prof. psychol, Wabash Col, 58-62, consult. psychologist, inst. personal develop, 59-62; ASSOC. PROF. ORGN. BEHAV, NEW YORK STATE SCH. INDUST. & LABOR RELS, CORNELL, 62- U.S.A, 50-52, Sgt. Psychol. Asn. Industrial psychology; appraisal process; motivation; training. Publ: Selection of executives for a training program, Personnel Psychol. Address: Dept. of Organizational Behavior, New York State School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

GRUESSER, SISTER MARY JEANINE, O.S.F, b. Milwaukee, Wis, Apr. 12, 17. SOCIOLOGY. B.S, Cardinal Stritch Col, 38; M.A, Catholic Univ, 42, Ph.D. (sociol), 50. ASSOC. PROF. SOCIOL. & CHMN. DEPT, CARDINAL STRITCH COL, 49- Social theory; intergroup relations; Catholic social teaching. Publ: Categorical valuations of Jews among Catholic parochial school children; Catholic sociologist and the Catholic mind, Am. Cath. Soc. Rev. Address: Dept. of Sociology, Cardinal Stritch College, 6801 N. Yates Dr, Milwaukee, Wis. 53217.

GRUHN, DR. ISEBILL V, b. Germany, May 18, 38; U.S. citizen. POLITICAL SCIENCE. A.B, Dickinson Col, 60; M.A, Hopkins, 62; Ford Found. fel, 65-67; Ph.D.(polit. sci), California, Berkeley, 67. ASST. PROF. GOVT, OBERLIN COL, 67- Polit. Sci. Asn; African Studies Asn. Politics of developing nations, especially Africa; regional organization; functional integration. Address: Dept. of Government, Rice Hall, Oberlin College, Oberlin, Ohio 44074.

GRUMBINE, DR. CECILY GARDNER, b. Chicago, Ill, Aug. 9, 26; m. 43, 61; c. 5. PSYCHOLOGY. M.A, Chicago, 53, Ph.D.(clin. & ed. psychol), 57. Teacher, Univ. High Sch, Chicago, 51-56; clin. psychologist, Inst. Juvenile Res, Ill, 56-57; asst. prof. psychol. & dean women, Colo. State Col, 57-59; CLIN. PSYCHOLOGIST & DIR, COUNSELING SERV. NORTH. COLO, 59-; DIV. PSYCHOLOGIST, FT. LOGAN MENT. HEALTH CENTER, 66-, team psychologist, 65-66. Counsr, Ridge Farm Sch, Ill, 52; res. asst, Chicago, 55, instr, 55-60; participant, Cong. Career Women Leaders, 66, 67. Psychol. Asn; Int. Coun. Psychol.(ed, Newsletter, 60-65, Int. Understanding, 63-; int. pres, 65-67); Orthopsychiat. Asn. Individual diagnosis and therapy; family unit therapy; language and communication; educational psychology; personality development, measurement and change. Publ: Action therapy with adults, Proc. Am. Psychol. Asn, 66. Address: Counseling Service of Northern Colorado, Suite 326, First National Bank Bldg, 1025 Ninth Ave, Greeley, Colo. 80631.

GRUMM, PROF. JOHN GRANT, b. San Diego, Calif, Sept. 10, 22; m. 48; c. 1. POLITICAL SCIENCE. B.A, Occidental Col, 50; M.A, California, 52, Ph.D, 57. Analyst, bur. pub. admin, California, 52-54, asst. POLIT. SCI, 54-56; asst. prof, KANSAS, 56-61, assoc. prof, 61-65, PROF, 65-, asst. dean faculties, 63-65. Watkins fel, 57; Soc. Sci. Res. Coun. fel, 61. Res. consult, Citizens Conf. State Legis, 65-67; consult, off. ed, U.S. Dept. Health, Ed. & Welfare, 67- Polit. Sci. Asn. Application of quantitative methods to legislative behavior. Publ: Theories of electoral systems & A factor analysis of legislative behavior, 11/63, Midwest J. Polit. Sci; The systematic analysis of blocs in the study of legislative behavior, West. Polit. Quart, 6/65. Address: Dept. of Political Science, University of Kansas, Lawrence, Kans. 66044.

GRUMMON, PROF. DONALD LONGDEN, b. Quincy, Ill, July 6, 17; m. 47; c. 2. PSYCHOLOGY. B.A, DePauw, 39; M.A, Ohio State, 41; Ph.D.(psychol), Chicago, 50. From lectr. to asst. prof. psychol, Chicago, 47-53; from assoc. prof. to PROF. PSYCHOL, MICH. STATE, 53-, dir. counseling center, 53-66. Consult, Vet. Admin, 55- U.S.A, 44-46. Psychol. Asn; Personnel & Guid. Asn.(award, 55). Process and outcomes of counseling and psychotherapy; adolescent and early adult personality development. Publ: Co-auth, 4 chaps, In: Psychotherapy and personality change, Univ. Chicago, 54; Client centered theory, In: Theories of counseling, McGraw, 65. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

GRUMPELT, DR. HOWARD R(ANDALL), b. Washington Crossing, N.J, Sept. 26, 31; m. 60; c. 2. PSYCHOLOGY. B.A, Iowa, 54; M.A, Temple, 58; Ph.D.

(psychol), West Virginia, 65. Psychol. intern, Vet. Admin. Hosp, Wilkes-Barre, Pa, 60-61; instr. PSYCHOL, W.Va. State Col, 61-62; West Virginia, 62-64; WASHINGTON COL, 64-65, asst. prof, 65-67, ASSOC. PROF, 67- Clin. psychol. consult, East Shore State Hosp, Cambridge, Md, 67-68. U.S.A 54-56. Psychol. Asn. Motivation parameters such as rg-sg and the frustration effect; physiological antecedents of curiosity drives; drive and habit conflict; speed-listening for blind. Publ: Co-auth, Homosexuality and some MMPI measures of masculinity-femininity, J. Clin. Psychol, 61. Address: Dept. of Psychology, Washington College, Chestertown, Md. 21620.

GRUNBAUM, PROF. WERNER F(RANCIS), b. Giessen, Germany, May 31, 30; U.S. citizen; m. 58. POLITICAL SCIENCE. B.A, Rice Univ, 51; M.A, Chicago, 52, Ph.D.(polit. sci), 55. Instr. POLIT. SCI, Houston, 55-56, asst. prof, 56-59, assoc. prof, 59-64, PROF, 64-67; MISSOURI, ST. LOUIS, 67- Polit. Sci. Asn; Asn. Comput. Mach. Public law and administration. Publ: Factor study of Negro and white responses to advertising, J. Appl. Psychol; Computer simulation of Supreme Court cases, Frontiers of Judicial Behav; British security program, West. Polit. Quart. Address: Dept. of Political Science, University of Missouri at St. Louis, St. Louis, Mo. 63121.

GRUNBERG, PROF. EMILE, b. Baden, Austria, Aug. 1, 05; nat. ECONOMICS. Ph.D, Frankfurt, 30. Instr, Univ. Kansas City, 42-43; res. assoc, New Sch. Soc. Res, 43-46; asst. prof, Akron, 46-48; assoc. prof. ECON, Carnegie Inst. Tech, 48-56; PROF. & HEAD DEPT, AKRON, 56- Ford Found. res. fel, 58-59; Univ. Akron res. grants. Econ. Asn; Economet. Soc; Asn. Comp. Econ. Logical foundations of social science; prediction and verification; small-group experiments on bargaining behavior. Publ: Co-auth, Predictability of social events, J. Polit. Econ; The meaning of scope and external boundaries of economics, In: The structure of economic science, Prentice-Hall, 66; Some methodological observations on macro-economics, Konjunkturpolitik, 2/67. Address: Dept. of Economics, University of Akron, Akron, Ohio 44304.

GRUNDSTEIN, PROF. NATHAN D(AVID), b. Ashland, Ohio, Sept. 19, 13; m. 48; c. 4. PUBLIC ADMINISTRATION, LAW. A.B, Ohio State, 35, scholar, 35-36, M.S, 36; scholar. & fel, Syracuse, 36-39, Ph.D, 43; LL.B, George Washington, 51. Asst, Syracuse, 37-38; off. of solicitor, U.S. Dept. Agr, 39-40, jr. admin. technician, food & drug admin, 40-41; admin. asst. & analyst, labor div, Off. Prod. Mgt. & War Prod. Bd, 41-43, asst. to v.chmn. labor prod, 43-45, prin, policy analyst, off. exec. secy, 45-47; asst. prof. govt, Wayne, 47-49, assoc. prof. pub. admin, 49-54, prof. pub. law & pub. admin, 54-58; vis. prof, GRAD. SCH. PUB. & INT. AFFAIRS, Pittsburgh, 58-60, prof. pub. affairs, 60-64; prof. polit. sci. & dir. grad. prog. pub. mgt. sci, dept. polit. sci, CASE WESTERN RESERVE, 64-68, PROF. MGT. & DIR. GRAD. PROG. PUB. MGT. SCI, SCH. MGT, 68- Consult, Detroit Bur. Govt. Res, Mich, 48-, State Off. Civil Defense, 51; Consad Res. Corp, 62- Asst. proj. dir, Joint Legis. Cmt. Reorgn. State Govt, Mich, 50-51. Soc. Polit. & Legal Philos; Inst. Mgt. Sci; Soc. Gen. Syst. Res. Urban management; management systems; administrative law; executive development. Publ: Approaches to executive development in business and government; Presidential delegation of authority in wartime; co-auth, Administrative law and the regulatory system, Lerner Law, rev. ed, 68. Address: Dept. of Management, Case Western Reserve University, Cleveland, Ohio 44106.

GRUNDVIG, DR. JOHN LANCE, b. Salt Lake City, Utah, May 6, 34; m. 59; c. 3. PHYSIOLOGICAL & CLINICAL PSYCHOLOGY. B.S, Utah, 59, B.A, 61, M.A, 65, Ph.D.(clin. psychol), 66. Clin. psychol. trainee, Salt Lake Vet. Admin. Hosp, 61-66, res. assoc. fel, 66-68; vis. prof. psychol, Va. Mil. Inst, 68; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, 68- Chem.C, U.S.A, 60-61, Res, 61-, Capt. Sensory and perceptual processes, especially olfaction; development of sensory-perceptual examination for diagnosis of brain damage. Publ: Co-auth, Relationship of olfactory receptor stimulation to stimulus-environmental temperature, Exp. Neurol, 8/67. Address: Veterans Administration Hospital, Salt Lake City, Utah 84113.

GRUNES, DR. WILLA FREEMAN, b. Philadelphia, Pa, May 17, 25; m. 49; c. 3. PSYCHOLOGY. B.A, Swarthmore Col, 47; Mass. Inst. Tech, 47-48; M.A, California, 50, Ph.D.(psychol), 54; Colorado State, 59-60. Asst. soc. perception, inst. indust. rels, California, 49-50; sch. psychologist clin. psychol, State Training Sch, Mandan, N.Dak, 52-53; clin. psychologist, State Psychiat. Clin, Bismarck, N.Dak, 60-61; res. assoc, sch. hosp. admin, Cornell, 65-66; ASST. PROF. PSYCHOL, ITHACA COL, & CLIN. PSYCHOLOGIST, EWING SPEECH & HEARING CLIN, 66- Award, Am. Personnel & Guid. Asn, 58. Psychol. Asn. Clinical psychology; brain theory; group dynamics; social perception. Publ: On perception of occupations, Personnel & Guid, 56; Looking at occupations, J. Abnorm. & Soc. Psychol, 57; Secondary pseudoautism caused by physiological isolation, J. Consult. Psychol, 65. Address: 307 Salem Dr, Ithaca, N.Y. 14850.

GRUNEWALD, DEAN DONALD, b. New York, N.Y, Feb. 9, 34. BUSINESS ADMINISTRATION. A.B, Union Col, 54; A.M, Harvard, 55, M.B.A, 59, D.B.A, 62. Instr. BUS. ADMIN, col. bus, Kansas, 59-60; lectr, col. bus. admin, Boston, 61-62; asst. prof, grad. sch. bus, Rutgers, 62-65, assoc. prof, 65-67; PROF, GRAD. SCH. ADMIN, SUFFOLK, 67-, DEAN COL. BUS, 67- U.S.A.F, 55-57, Capt. Econ. Asn; Hist. Asn; Polit. Sci. Asn; Acad. Mgt. Business and government; business and its environment; business policy; finance. Publ: Co-auth, Business policy and its environment, Holt, 65; Business decision making and government policy, Prentice-Hall, 66; Public policy and the modern corporation, Appleton, 66. Address: College of Business Administration, Suffolk University, Boston, Mass. 02114.

GRUNWALD, DR. JOSEPH, b. Vienna, Austria, June 25, 20; nat; m. 49; c. 3. ECONOMICS. B.S, Hopkins, 43; Ph.D, Columbia, 50. Lectr. econ, Rutgers, 46-47; Columbia, 47; asst. prof, Adelphi Col, 47-50; econ. adv, Govt. P.R, 50-52; asst. prof. econ, City Col. New York, 52-54; prof. econ. & dir, Inst. Econ. Res, Chile, 54-63; DIR. ECON. & SOC. DEVELOP. STUDIES, BROOKINGS INST, 63- Faculty res. grant, Oslo, 49; acting dir. econ. div, P.R. Planning Bd, 51-52; Rockefeller Found. res. grant, Chile, 59-61; vis. prof, Yale, 61-63; lectr, sch. adv. int. studies, Hopkins, 63-64, 68. Consult, Puerto Rico, 50-52; Latin Am, Ford Motor Co. & W.R. Grace & Co, 55-63; Ford Found, 60-; U.S. Agency Int. Develop, 63-; Interam. Bank Develop. Ex-officio adv, Govt. Chile, 55-61; chmn. joint cmt. Latin Am. studies, Am. Coun. Learned Soc-Soc. Sci. Res. Coun, 65-; mem. alliance prog. cmt. Evaluate Develop. Plan Uruguay, 67. Econ. Asn; Inter-Am. Planning Soc. Economic development; economic integration in Latin America; economic planning. Publ: National economic budgeting in Norway, 50; Desarrollo económico de Chile, 1940-1956, 56; co-auth, Economic development of Puerto Rico 1940-1950; 1951-1960; Latin American trade patterns, 65. Address: 8206 Kenfield Court, Bethesda, Md. 20034.

GRUNZKE, MAJ. MARVIN E, U.S.A.F, b. Matawan, Minn, Nov. 1, 23; m. 49; c. 1. COMPARATIVE PSYCHOLOGY. B.S, Trinity (Tex), 54; M.A, Texas, 58; Ph.D.(exp. psychol), Baylor, 66. U.S. AIR FORCE, 47-, supvr. test admin. & scoring, Human Resources Res. Center, Lackland Air Force Base, Tex, 49-52, comdr. res. group psychol. testing, Sampson Air Force Base, N.Y. 52-53, exec. officer, res. & develop. lab, Tex, 53-54, res. psychologist, Personnel Training Res. Center, 55-57, aeromed. lab, Wright-Patterson Air Force Base, Ohio, 58-59, chief apparatus develop, 6571st Aeromed. Res. Lab, 59-63, comp. psychol. div, 65-66, RES. COORDINATOR PERSONNEL RES, DIRECTORATE OF PERSONNEL PLANS HQ, WASH, D.C, 66- Psychol. Asn. Psychometrics; test development and validation; personnel classification; human engineering; operant conditioning; teaching machines. Publ: Feeding devices for use with primates in space flight; co-auth, Behavior of the chimpanzee in a complex multiple schedule; Chimpanzee performance during the ballistic and orbital Project Mercury flights, J. Comp. & Physiol. Psychol, 2/63. Address: 8818 Skokie Lane, Vienna, Va. 22180.

GRUSEC, DR. JOAN E(LEANOR), b. Toronto, Ont, Aug. 31, 40; m. 62. PSYCHOLOGY. B.A, Toronto, 61; Ph.D.(psychol), Stanford, 65. ASST. PROF. PSYCHOL, Wesleyan, 65-66; WATERLOO, 66- AAAS; Psychol. Asn. Moral development; identification; behavior theory. Address: Dept. of Psychology, University of Waterloo, Waterloo, Ont, Can.

GRUSENDORF, PROF. ARTHUR AUGUST, b. Lexington, Tex. Oct. 1, 95; m; c. 2. SOCIOLOGY. B.A, Baylor, 22, M.A, 25, Ph.D. Texas, 38. Instr. Spanish, Sam Houston State Teachers Col, 25-26; head dept. for. languages, W.Tex. State Col, 26-29; pres. Blinn Col, 29-35; assoc. prof. ed, SOUTHWEST TEX. STATE COL, 37-42, registr, 38-42, PROF. SOCIOL, 46- Consult, Gary Job Corps Center, Tex, 65-66. U.S.A.A.F, 42-44; Med.Admin.C, 44-46, Maj. Sociol. Asn. Juvenile delinquency. Publ: Applied human relations for job corps centers, Gary Job Corps Center, 10/66; What American teen-agers believe concerning the causes of juvenile delinquency today; American youth speaks on delinquency causation, Tex. Outlook. Address: Dept. of Sociology, Southwest Texas State College, San Marcos, Tex. 78666.

GRUSKY, PROF. OSCAR, b. Newburgh, N.Y, July 10, 30; m. 52; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. A.B, Union (N.Y), 53; M.A, Michigan, 54, U.S. Pub. Health Serv. fel, 56-57, Ph.D. 58. Instr. SOCIOL. CALIFORNIA, LOS ANGELES, 57-57, asst. prof, 58-63, assoc. prof, 63-68, PROF, 68- Ford Found. faculty res. fel, 59-60; prin. investr, Nat. Sci. Found. res. proj, 62-66; vis. scholar, London Sch. Econ. & Polit. Sci, 66-67; prin. investr, Air Force Off. Sci. Res. proj. 66- Summers, vis. lectr, Michigan, 57, Ford Found. comparative studies fel, California, 66. U.S.A, 47-49. Fel. Sociol. Asn: Psychol. Asn. Administrative succession in complex organizations; effects of organizational size: small group behavior in large-scale organizations. Publ: Corporate size, bureaucratization and managerial succession, Am. J. Sociol; Chap. 3, In: The new military, Sage Pub, 64: Career mobility and organization commitment, Admin. Sci. Quart, 66. Address: Dept. of Sociology, University of California, Los Angeles, Calif. 90024.

GSCHAEDLER, DR. A(NDRE), Hist, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GUARDO, DR. CAROL J(OAN), b. Hartford, Conn. Apr. 12, 39. PSYCHOLOGY. B.A, St. Joseph Col, 61; fel, Detroit, 61-63, M.A, 63; univ. fel, Denver, 63-64, Nat. Inst. Ment. Health fel, 64-66, Ph.D.(psychol), 66. Asst. prof. psychol, Eastern Michigan, 66-68; ASST. PROF. PSYCHOL. & COUNSR, DENVER, 68- Psychol. Asn; Soc. Res. Child Develop. Personality development in children with special interest in self theory and the child's sense of self-identity; usage of personal space by children and their development of personal space schemas. Address: Counseling Center, University of Denver, Denver, Colo. 80210.

GUBA, DR. EGON G(OTTHOLD), b. Chicago, Ill, Mar. 1, 24; m. 47; c. 3. EDUCATIONAL RESEARCH. A.B, Valparaiso, 47; M.A, Kansas, 50; Ph.D. (ed), Chicago, 52. Instr. math. & physics, Valparaiso, 47-48; res. assoc. ed, Chicago, 51-53, instr. 53-55, asst. prof. & res. consult, Midwest. Admin. Center, 55-57; assoc. prof, Univ. Kansas City, 57-58; from assoc. prof. to PROF. ED. Ohio State, 60-66; dir. bur. ed. res. & serv. 61-65, asst. dir. sch. ed. 65-66; INDIANA, 66-, DIR. NAT. INST. STUDY ED. CHANGE, 66- Res. assoc, Community Studies, Inc. 57-58. C.Eng. U.S.A. 43-46. AAAS; Psychol. Asn; Statist. Asn; Sociol. Asn; Ed. Res. Asn. Educational change; research methodology and administration. Address: 825 E. Eighth St. Bloomington, Ind. 47401.

GUBAR, DR. GEORGE, b. West New York, N.J, Dec. 12, 21; m. 42; c. 3. PSYCHOLOGY. B.A, Rutgers, 62, Ed.M, 63, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, SETON HALL, 65-; CHIEF PSYCHOLOGIST, ST. DISMAS TREATMENT & REHAB. CENTER FOR DRUG ABUSE, 66- U.S.A. 42-45, Lt. Psychol. Asn. Individual and group techniques in the psychotherapeutic treatment of drug addiction based on previous research in areas of concept formation and laboratory judgement of facial expressions. Publ: Recognition of human facial expressions judged live in a laboratory setting, J. Personality & Soc. Psychol, 7/66; Family life cycle, J. Bus, 5/67; Problem of drug addiction: an overview, Pa. Psychiat. Quart, summer 67. Address: Dept. of Psychology, Seton Hall University, 151 Ellison St, Paterson, N.J. 07505.

GUBITZ, PROF. ALBERT C(ARL), b. Utica, N.Y, Nov. 6, 99. ECONOMICS. A.B, Colgate, 22; A.M, Indiana, 25; summers, Wisconsin, 29, 34, 35, 37. Instr. econ, Gettysburg Col, 22-23; Indiana, 23-25; assoc. prof. econ. &

Assoc. dir. personnel, Antioch Col, 25-26; prof. econ, OHIO, 26-65, EMER. PROF. & EMER. DEAN, 65- Chmn. dept. econ, Ohio, 29-46, dir. br. cols, 46-56, off-campus & pub. rels, 47-59, bur. appointments, 47-65, exec. dir, alumni sesquicentennial scholarship fund, 53-55, dir, Univ. Fund, Inc, 54-58, dean univ. brs, 56-65. Mem. staff, Rome State Sch. Ment. Defectives, summers 21-26. Consult, Columbia Gas Co, 66; dir, Pa. R.R. & Timken Roller Bearing Supvry. Training Progs, 49-54. Junior colonies for the feebleminded; labor movement; agricultural cooperation and the government. Address: Route 3, Box 516 J, Leesburg, Fla. 32748.

GUE, DR. RONALD L(EE), b. Washington, D.C, Sept. 12, 38; m. 66; c. 2. OPERATIONS RESEARCH. B.E.S, Hopkins, 60, Gilman fel, 61-63, univ. fel, 63-64, Ph.D.(opers. res), 64. Asst. prof. & dir. opers. res, J. Hillis Miller Health Center, Univ. Florida, 60-66, assoc. prof. opers. res, 66-67; PROF. & DIR. COMPUTER SCI. CENTER, INST. TECH. SOUTHERN METHODIST, 67- Res. asst, hosp, Hopkins, 60-64, instr, 61-64; prin. investr, U.S. Pub. Health Serv. res. grant, 66-68. Consult, dept. med. & surg, Vet. Admin, 66- Assoc. mem. Inst. Indust. Eng; Soc. Eng. Ed; Opers. Res. Soc. Systems engineering. Publ: Co-auth, Mathematical methods in operations research, Macmillan, 68; Modern engineering mathematics, Macmillan, (in press). Mathematical programming models for hospital menu planning, Indust. Eng. 8/66. Address: Computer Sciences Center, Institute of Technology, Southern Methodist University, Dallas, Tex. 75222.

GUEDRY, DR. F(REDERICK) E(RNEST), JR, Psychol, see 11th ed, Phys. & Biol. Vols.

GUEFFROY, DR. EDNA MAY, b. Bloomington, Ill, July 8, 97. GEOGRAPHY. B.Ed, Ill. State Nor. Univ, 26; M.A, Clark, 27; Ph.D. Washington (Seattle), 50. Teacher, high sch, Ill, 18-20; pub. schs, 20-22, teacher & asst. prin, 22-24; instr. geog, Southern Illinois, 27-29; asst. prof, Illinois State, 29-46, assoc. prof, 46-56, prof, 56-64; RETIRED. Asn. Am. Geog; Nat. Coun. Geog. Ed. Historical geography of New Zealand and the Pacific Islands; earth science. Publ: Bloomington: an urban community; Home gardening in Alaska, Sch. Sci. & Math. Address: 14 Fairview Acres, Normal, Ill. 61761.

GUEMPLE, DR. D. L(EE), b. Kansas City, Mo, July 10, 30; m. 52; c. 2. ANTHROPOLOGY. B.A, Chicago, 59, M.A, 61, Ph.D.(anthrop), 66; fel, Nat. Mus. Can, 62-63. Res. asst, Philippine studies prog, Univ. Chicago, 58-60; instr. soc. sci. & anthrop, Wright Jr. Col, Ill. 60-62 & 63-64; ASST. PROF. ANTHROP, Fla. State, 64-66; SOUTHERN ILLINOIS, 66- Summer res. fel. Nat. Mus. Can, 67. U.S.A, 52-54, Res. 54-56. Fel. AAAS; fel. Anthrop. Asn; assoc. Arctic Inst. N.Am. Social anthropology; ethnolinguistics; Arctic: Asia. Publ: Inuit spouse-exchange, occasional paper, dept. anthrop, Chicago, 61; Saunik: name sharing as a factor governing Eskimo kinship terms, Ethnol. Vol. 4: 323-35, 65; The Pacalik Kayak of the Belcher Islands, Nat. Mus. Can. Bull. 204: 152-218, 66. Address: Dept. of Anthropology, Southern Illinois University, Carbondale, Ill. 62901.

GUENTHER, PROF. H(ENRY) W(ILLIAM), b. San Antonio, Tex, Sept. 13, 93; m. 25; c. 2. PSYCHOLOGY. A.B, Sam Houston State Teachers Col, 20; M.A, Baylor, 22; Ph.D, Wisconsin, 30. Teacher, pub. schs, Tex, 16-19, prin, 19-20, supt, 21; from prof. to EMER. PROF. PSYCHOL. NORTHEAST. STATE COL, 22- U.S.A, 17-18. Publ: Co-auth, Treasure chest of ideas; contrib, Oklahoma teacher. Address: Dept. of Psychology, Northeastern State College, Tahlequah, Okla. 74464.

GUENTHER, DR. LOUIS C, b. Pittsburgh, Pa, Jan. 23, 05; m. 38; c. 1. PSYCHOLOGY, EDUCATION. A.B, Southwestern Col.(Kans), 34; M.A, Pittsburgh, 38, Ph.D.(ed), 58. Registrar, Howard Col, 38-43; Mary Washington Col, Virginia, 43-59; dir. admissions, Wake Forest, 59-60; registrar, Fla. Presby. Col, 60-67; REGISTRAR, DIR. ADMISSIONS & PROF. ED. & PSYCHOL, SAMFORD, 67- Functions of the collegiate registrar, and an evaluation of those functions by a jury of experts in the field; university administration; history of education. Publ: Functions performed by registrars in degree-granting institutions accredited by the North Central Association, Univ. Microfilms, 58. Address: Dept. of Education & Psychology, Samford University, Birmingham, Ala. 35209.

GUERNEY, PROF. BERNARD GUILBERT, JR, b. Brooklyn, N.Y, Feb. 28, 30; m. 53; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 51; M.S, Pa. State, 53, Ph.D, 56. Clin. supvr. & instr. psychol, Pa. State, 56; clin. psychologist, Lafayette Clin, Detroit, Mich, 56-57; asst. prof. PSYCHOL, RUTGERS, 57-61, assoc. prof, 61-68, PROF, 68- DIR. PSYCHOL. CLIN, 61-, acting dir, 57-61. Instr, Wayne State, 56-57. Consult, Head Start, 66- Dipl. Am. Bd. Exam. Prfnl. Psychol, 61. Psychol. Asn. Psychotherapy; application of learning theory; play and family therapy; child psychology; personality; concepts of self and others; interpersonal relationships and communication. Publ: Co-auth, Psychotherapy research: selected readings, Rand McNally, 66, Families of the slums, Basic Books, 67 & Effects on clients of a reflective and a leading type of psychotherapy, Psychol. Monogr. Address: Psychological Clinic, Rutgers University, Douglass College, New Brunswick, N.J. 08903.

GUERNSEY, DR. ELWOOD W(ILLARD), b. Newark, N.J, Mar. 21, 31; m. 60. SOCIOLOGY. B.A, Michigan, 53; M.S, Fla. State, 64, Ph.D.(sociol), 65. Instr. SOCIOL, Fla. State, 65-66; ASST. PROF, WASHINGTON STATE, 66- U.S.A, 54-56. Computer applications in sociology; occupational sociology. Address: 511 Water St, Pullman, Wash. 99163.

GUERNSEY, DR. JACKSON E(DWIN), b. Wilkes-Barre, Pa, May 13, 10; m. 46; c. 2. GEOGRAPHY. B.A, Williams Col, 31; M.A, Columbia, 38; Ph.D.(geog), Clark, 41. Instr. geog, Wilkes-Barre Acad, 32-38; asst. prof, Concord Teachers Col, W.Va, 39-41; Fredonia Teachers Col, N.Y, 41-42; chief Near E.Africa sect, map div, U.S. Dept. State, 46-47; assoc. prof. geog, George Washington, 47-48; GEOGR, U.S. GOVT, 48- U.S.A, 42-45. Asn. Am. Geog. Climatology; cartology. Address: 9707 Parkwood Dr, Bethesda, Md. 20014.

GUERNSEY, PROF. JAMES LEE, b. Henryville, Ind, June 22, 23; m. 48; c. 2. GEOGRAPHY. B.S, Ind. State Teachers Col, 47; M.A, Indiana, 48; Ph.D. (geog), Northwestern, 53. Instr. GEOG, Ind. State Teachers Col, 48-51, asst. prof, 51-53; Louisville, 53-56, assoc. prof, 56-57; INDIANA STATE, 57-60, PROF, 60-, DIR. SCI. EXP. STA, 61- Consult, Strip Mining & Reclamation Cmn, Ky, 55-56; adv, Wabash Valley Interstate Cmn, 66- U.S.A.A.F, 42-45. Asn. Am. Geog; Nat. Coun. Geog. Ed. Conservation of natural resources; reclamation of strip-mined lands; geography of Mexico. Publ: Our physical environment, Univ. Louisville, 57; co-auth, Principles of geography, 59 & Principles of physical geography, 64, Barron's. Address: Indiana State University, Science Experiment Station, Terre Haute, Ind. 47809.

GUERRANT, PROF. EDWARD O(WINGS), b. Danville, Va, Feb. 2, 11. POLITICAL SCIENCE. A.B, Davidson Col, 33; A.M, Southern California, 39, Ph.D, 42. Instr, Calif. Inst. Tech, 42-44; polit. analyst, Off. Inter-Am. Affairs, 44-45; div. asst, U.S. Dept. State, 45-46; assoc. prof. int. rels, Davidson Col, 46-54; from mem. faculty soc. sci. div. to PROF. HIST, CALIF. STATE COL. LOS ANGELES, 54-, CHMN. DEPT, 57-64, 66- Am. Soc. Int. Law; Hist. Asn. United States foreign policy; recent American foreign policy. Publ: Roosevelt's good neighbor policy; Modern American diplomacy; co-auth, Toward a more perfect union: the constitution in historic perspective, Heath, 67. Address: Dept. of History, California State College at Los Angeles, Los Angeles, Calif. 90032.

GUERTIN, DR. WILSON (HOWLAND), b. Bridgeport, Conn, July 26, 20; m. 56; c. 2. PSYCHOLOGY. B.A, Rutgers, 45; M.A, Iowa, 47; Ph.D.(psychol), Mich. State, 51. State intern clin. psychol, Ill, 47-48; acting chief psychologist, Lincoln State Sch, Ill, 48-49; chief psychologist, Beatty Mem. Hosp, Ind, 50-52; prof. psychol, Higher Teachers Col, Iraq, 55-57; supvr. res. unit clin. psychol, Vet. Admin. Hosp, Knoxville, Iowa, 57-60; ASSOC. PROF. ED. & PSYCHOL, FLORIDA, 60- Fulbright lectr, United Arab Repub, 66. Psychol. Asn; Ed. Res. Asn. Clinical assessment methodology; research design and analysis; factor analysis in establishing psychiatric classifications; educational research training. Publ: Medical and statistical-psychological models for research in schizophrenia, Behav. Sci; Empirical syndrome groupings of schizophrenic hospital admissions, J. Clin. Psychol; Factor analysis of geriatric attitudes, J. Consult. Psychol. Address: College of Education, University of Florida, Gainesville, Fla. 32601.

GUEST, PROF. B(UDDY) ROSS, b. Republican City, Nebr, Apr. 11, 20; m. 50; c. 2. GEOGRAPHY. B.A, Nebr. Wesleyan, 42; M.A, Nebraska, 47; Salisbury fel, Chicago, 47-50, Ph.D.(geog), 51. Instr. geog, Nebr. Wesleyan, 46-47; lectr, Rutgers, 50-51; res. analyst, U.S. Dept. Air Force, 51-58; assoc. prof. earth sci, NORTHERN ILLINOIS, 58-67, PROF. GEOG, 67- Award, U.S. Dept. Air Force, 56. U.S.A.A.F, 42-45, Res, 46- AAAS; Asn. Am. Geog. Aerospace education; geography of Union Soviet Socialist Republics; conservation of natural resources. Publ: Resource use and associated problems in the Upper Cimarron area. Address: 429 Fairmont Dr, DeKalb, Ill. 60115.

GUEST, DR. LESTER P(HILIP), b. Everett, Mass, Aug. 3, 13; m. 42; c. 2. PSYCHOLOGY. B.A, St. Lawrence, 37; M.A, Clark, 38; Ph.D.(psychol), Maryland, 41. Instr. psychol, Pa. State, 41-43, asst. prof, 43-47, assoc. prof, 47-53, prof, 53-67; PART TIME LECTR. BEHAV. SCI, SOUTH FLORIDA, 67- Assoc. prof, Denver, 47-48, res. consult, opinion res. center, 47-48. Fel. Psychol. Asn; fel. Mkt. Asn; fel. Asn. Pub. Opinion Res. Selection and training of public opinion interviewers; design of opinion surveys; market and advertising research methods. Publ: Beginning statistics; Brand loyalty: twelve years later, J. Appl. Psychol; Consumer analysis, In: Annual review of psychology. Address: 1540 N. Lake Mirror Dr, Winter Haven, Fla. 33880.

GUEST, DR. PEARL H(OAGLAND), b. Mercer, Pa, Dec. 13, 10; m. 42; c. 2. PSYCHOLOGY. B.S, Westminster Col, 31; M.A, Iowa, 34; Ph.D.(psychol), Pa. State, 54. Statistician, pub. schs, Pa, 31-32, teacher, 38-39; instr. psychol. & ed, Westminster Col, 32-38; asst, Pa. State, 39-42, asst. dir. psychol. clin, 42-43, instr. psychol. & ed, 42-57, asst. prof. psychol, 57-62, counseling psychologist, 58-67. Assoc. dir, Pa. Surv, 48-67. Psychol. Asn; Asn. Pub. Opinion Res. Mental measurement; public opinion research; counseling. Address: 1540 N. Lake Mirror Dr, Winter Haven, Fla. 33880.

GUEST, PROF. ROBERT H(ENRY), b. May 3, 16; m. 43; c. 4. INDUSTRIAL SOCIOLOGY. A.B, Amherst Col, 39; M.A, Columbia, 40, Ph.D, 60; hon. M.A, Dartmouth Col, 60. Dir. labor rels. Limerick Yarn Mills, Maine, 41-42; sr. field exam, Nat. Labor Rels. Bd, 46-47; assoc. dir. res, tech. proj, Yale, 47-60; PROF. ORGN. BEHAV, AMOS TUCK SCH, DARTMOUTH COL, 60- Lectr. New Haven Col, 56-59; vis. lectr, Leeds, 58. Partner, Charles R. Walker Assoc, 54- U.S.N.R, 42-45, Lt. Sociol. Asn; Soc. Appl. Anthrop. Industrial organization; technological change; leadership and job design. Publ: Co-auth, The man on the assembly line & America purpose and power, Quadrangle, 65; auth, Organizational change: the effect of successful leadership. Address: 8 Barrett Rd, Hanover, N.H. 03755.

GUETZKOW, PROF. HAROLD, b. Milwaukee, Wis, Aug. 16, 15; m. 44; c. 3. POLITICAL SCIENCE, PSYCHOLOGY. A.B, Chicago, 36; fel, Michigan, 40-41, 45-46, Ph.D.(psychol), 48. Ed. dir, Civilian Pub. Serv. Camp, Mich, 42-43; res. assoc, off. sci. res. & develop, med. sch, Minnesota, 43-46; instr. psychol, Michigan, 46-47, asst. prof, 47-50, proj. coordinator, off. naval res, 48-50; assoc. prof. indust. admin. & psychol, Carnegie Inst. Tech, 50-55, PROF, 55-57; POLIT. SCI, SOCIOL. & PSYCHOL, NORTHWESTERN, 57- Fel, Center Adv. Study Behav. Sci, 56-57; Ford Found. master fel, 58-63. Sr. indust. consult, Psychol. Serv. of Pittsburgh, 51-55; res. consult, center progs. govt. admin, Chicago, 58-62. Polit. Sci. Asn; Psychol. Asn; Sociol. Asn. International relations; organizational behavior; group psychology. Publ: Centralization vs. decentralization; Organizations; Use of simulation for study of international relations. Address: Dept. of Political Science, Northwestern University, Evanston, Ill. 60201.

GUHA, DR. DILIP KUMAR, b. Barisal, East Pakistan, Mar. 1, 36; m. 66. OPERATIONS RESEARCH. B.S, Calcutta, 54, M.S, 56; Ph.D.(opers. res), Case, 65. Technician, Indian Statist. Inst, India, 57; asst. dir. statist, Dept. Food, Relief & Supplies, Govt. W.Bengal, 58, statistician, State Statist. Bur,

59-61; asst. opers. res, Case, 61-64; RES. ENGR, PORT OF NEW YORK AUTHORITY, 64- Opers. Res. Soc. Am; Inst. Mgt. Sci; Economet. Soc; Statist. Asn; Soc. Indust. & Appl. Math. Application of operations research techniques to engineering and economic problems; development of new methods to solve problems which are yet to be solved. Address: Research & Development Division, Port of New York Authority, 111 Eighth Ave, New York, N.Y. 10011.

GUILD, PROF. FREDERIC H(OWLAND), b. Providence, R.I, July 19, 92; m. 30; c. 1. POLITICAL SCIENCE. A.B, Brown, 13; M.A, Indiana, 15; Ph.D, Illinois, 21. Instr. POLIT. SCI, Indiana, 20-21, asst. prof, 21-24; prof, Kansas, 24-63, chmn. dept, 24-41; VIS. PROF, SOUTHERN ILLINOIS, 63- Dir. res. dept, Kans. Legis. Coun, 34-63; pres, Nat. Legis. Conf, 52. Consult, P.R. Joint Cmt. Legis. Reorgn. & Procedure, 52; Ill. Cmn. Reorgn. Gen. Assembly, 65-67. U.S.A, 18-19. Polit. Sci. Asn. Legislation; public administration; public finance. Publ: State supervision and administration of charities; co-auth, Legislative procedure in Kansas; auth, Legislative councils after thirty years, Pub. Affairs Res. Bur, Southern Ill. Univ, 64. Address: 910 Skyline Dr, Carbondale, Ill. 62901.

GUILD, PROF. LAWRENCE R(IDGE), b. Cleveland, Ohio, Aug. 29, 01. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Yale, 22, A.M, 25, Soc. Sci. Res. Coun. fel, 26-27, Ph.D, 27. Asst. prof. econ, Carnegie Inst. Tech, 27-31, assoc. prof, 31-32, prof. mgt. eng. & head dept, 32-46; prof. mgt. & indust. eng. & head depts, SOUTHERN CALIFORNIA, 46-53, prof. bus. admin, 53-59, MGT, 59-, EMER. PROF, 66- Consult, U.S. Conciliation Serv. Econ. Asn; Acad. Arbit. Management policy in industrial relations. Publ: Co-auth, Labor problems; contrib, Effective foremanship. Address: 239 S. Van Ness Ave, Los Angeles, Calif. 90004.

GUILD, PROF. ROBERT EARL, b. Toledo, Ohio, Nov. 18, 20; m. 49; c. 2. EXPERIMENTAL PSYCHOLOGY. B.S, Willamette, 48; Wisconsin, 48-49; fel, Washington (Seattle), 50-53, M.S, 51, Ph.D, 54. Teaching asst. psychol, Wisconsin, 48-49; training specialist psychol, Rand Corp, 54-56; coordinator mgt. develop, Boeing Airplane Co, 57-58; asst. prof. psychol, WASHINGTON (SEATTLE), 59-61, res. assoc. prof. DENT. ED, 63-68, PROF, 68-, LECTR. PSYCHOL. & COORDINATOR INST. RES, 61- Psychol. Asn. Human and animal learning; symbolic behavior; research in higher education; programmed self-instruction. Publ: Test of the Hull-Miller hypothesis of acquired drive; Recent developments in psychology; Programmed instruction: a way of thinking, J. Dent. Ed, 62. Address: Dept. of Dental Education, University of Washington, Seattle, Wash. 98105.

GUILFORD, PROF. J(OY) P(AUL), b. Marquette, Nebr, Mar. 7, 97; m. 27; c. 1. PSYCHOLOGY. A.B, Nebraska, 22, A.M, 24, hon. LL.D, 52; Ph.D. (psychol), Cornell, 27; hon. Sc.D, Southern California, 62. Instr. psychol, Illinois, 26-27; asst. prof, Kansas, 27-28; assoc. prof, Nebraska, 28-33, prof, 33-40, dir. bur. instructional res, 38-40; prof. PSYCHOL, SOUTHERN CALIFORNIA, 40-67, EMER. PROF, 67-, DIR. APTITUDES RES. PROJ, 49- Vis. prof, Northwestern, 35-36; Bingham Mem. lectr, Stanford, 59. U.S.A, 18; U.S.A.A.F, 42-46, Col; Legion of Merit. Nat. Acad. Sci; fel. AAAS; fel. Psychol. Asn. (pres, 49-50, distinguished sci. award, 64; Richardson creativity award, 66); Psychomet. Soc. (pres, 38-39); Soc. Exp. Psychol; Soc. Multivariate & Exp. Psychol. Psychological measurement; statistics. Publ: Personality; co-auth. & co-ed, Fields of psychology, 3rd ed, Van Nostrand, 66; The nature of human intelligence, McGraw, 67. Address: Dept. of Psychology, University of Southern California, Los Angeles, Calif. 90007.

GUILLIAMS, DR. CLARK I(RVIN), b. Springfield, Mo, June 8, 38; m. 67; c. 1. PSYCHOLOGY. B.A, Missouri, 60, M.Ed, 61; Nat. Inst. Ment. Health fel, Washington (St. Louis), 63; Ed.D.(counseling), 66. Asst. prof. PSYCHOL, Kans. State Teachers Col, 65-67; ASSOC. PROF, MO. SOUTH. COL, 67- AAAS; Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed. Publ: Guilliams analogies for music education (the game), Bur. Ed. Measurement, Kans. State Teachers Col, 66. Address: Dept. of Psychology, Missouri Southern College, Joplin, Mo. 64801.

GUILLOT, DR. ELLEN ELIZABETH, b. Pontiac, Mich, Mar. 5, 08. SOCIAL SCIENCE. B.S, Simmons Col, 30; A.M, Pennsylvania, 38, Ph.D, 43. Med. soc. consult, State Crippled Children Cmn, Mich, 42-46; asst. prof. soc. work, Missouri, 46-52; Fulbright grant, Egypt, 52-53; consult. soc. work, Int. Coop. Admin, U.S. Oper. Mission, Asuncion, Paraguay, 55-57; assoc. prof. med. soc. work, North Carolina, 57-62; supvr. res. analyst, off. int. surv, Dept. Health, Ed. & Welfare, Wash, D.C, 62-64; ASSOC. PROF. SOCIOL, ARIZONA STATE, 64- Asn. Social Workers; Sociol. Asn. Social welfare. Publ: Patterns of help for post partum mothers, Children, 4-5/64; Social factors in crime as explained by American writers of the post Civil War Period; Person and situation, a study of medical social work in a cardiac clinic. Address: Dept. of Sociology, Arizona State University, Tempe, Ariz. 85281.

GUINAN, DR. JAMES F, b. Detroit, Mich, Dec. 23, 38; m. 63; c. 2. CLINICAL PSYCHOLOGY. A.B, Detroit, 61; M.A, Toledo, 63; Ph.D.(clin. psychol), Mich. State, 66. Psychologist, Toledo Ment. Hyg. Clin, Ohio, 62-63; asst. psychol, Mich. State, 63-64, asst. instr. counseling, 65-66; trainee Vet. Admin. Hosp, Ann Arbor, Mich, 64-65; ASST. PROF. PSYCHOL, BOWLING GREEN STATE, 66- U.S.A, 58-64. Acad. Psychother; Psychol. Asn. Psychotherapy; human growth experiences. Publ: Co-auth, Secondary reinforcement schedules, J. Comp. Physiol. Psychol, Reliability of human figure drawings, J. Proj. Tech, 65 & Marathon psychotherapy, J. Counseling Psychol. Address: 305 Campbell Hill Rd, Bowling Green, Ohio 43402.

GUINDON, PROF. HUBERT, b. Bourget, Ont, Oct. 10, 29. SOCIOLOGY. B.A, Ottawa, 48, Ph.L, 49, M.A, 50; Montreal, 50-51; Chicago, 54. Asst. prof. sociol, Montreal, 54-60; sr. res. sociologist, res. & planning dept, Ministry of Youth, 61-62; asst. prof. SOCIOL, SIR GEORGE WILLIAMS, 62-64, ASSOC. PROF, 64-, CHMN. DEPT, 66- Res. grant, Can. Soc. Sci. Res. Coun, 51-52, scholar, 52-53; Fed-Prov. Ment. Health Grants fel, 53-54; Can. Coun. scholar, Sorbonne, 60-61; Soc. Res. Group res. grant, 60-61. Can. Econ. Asn; Can. Sociol. & Anthrop. Asn. Political sociology. Publ: The social evolution of Quebec reconsidered; Social unrest, social class and Quebec's bureaucratic revolution, Queen's Quart, 7/64; Two cultures: an essay on nationalism, class and ethnic tension, In: Contemporary Canada, Duke Univ, 67. Address: Dept. of Sociology & Anthropology, Sir George Williams University, Montreal 25, Que, Can.

GUINN, DR. OLIVER F(RANKLIN), b. Meeker, Okla, Nov. 26, 28; m. 54; c. 2. ECONOMICS. B.B.A, Oklahoma, 52, M.B.A, 53; Southern fel, Texas, 60-61, Ph.D.(econ), 62. Asst. ECON, Texas, 55-58; instr, West Tex. State Col, 58-60, asst. prof, WASHBURN, 61-64, assoc. prof, 64-67, PROF, 67- U.S.A, 53-55. State government finance. Address: Dept. of Economics & Business, Washburn University, Topeka, Kans. 66621.

GUINN, DR. PAUL S(PENCER), JR, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GUION, PROF. ROBERT M(ORGAN), b. Indianapolis, Ind, Sept. 14, 24; m. 47; c. 4. INDUSTRIAL PSYCHOLOGY. B.A, Iowa, 48; M.A, Purdue, 50, Ph.D. (psychol), 52. Voc. counsr, sch. eng, Purdue, 48-51; asst, occup. res. center. 51-52; assoc. prof. PSYCHOL, BOWLING GREEN STATE, 52-64, PROF, 64-, CHMN. DEPT, 66- Found. Econ. Ed. fel, 55; vis. assoc. prof, California, Berkeley, 63-64. Consult, Nat. Employ. Asn, 62-; personnel res. lab, U.S. Air Force, 66- James McKeen Cattell Award, 65. U.S.A, 43-46. Psychol. Asn; Int. Asn. Appl. Psychol. Industrial motivation and morale; factorial classification of ability; supervision; tests and fair employment practices. Publ: Personnel testing, McGraw, 65; Employment tests and discriminatory hiring, Indust. Rels, 66; Criterion measurement and personnel judgements, Personnel Psychol. Address: Dept. of Psychology, Bowling Green State University, Bowling Green, Ohio 43402.

GUIORA, DR. ALEXANDER Z(EEV), b. Nyiregyhaza, Hungary, June 13, 25; m. 55; c. 1. CLINICAL PSYCHOLOGY. D.Univ.(psychol), Sorbonne, 51. Clin. psychologist, Stockton State Hosp, Calif, 63-64; asst. prof. PSYCHOL. & PSYCHIAT, MICHIGAN, 64-65, ASSOC. PROF, 65-, CHIEF PSYCHOLOGIST, NEUROPSYCHIAT. INST, 65- Psychol. Asn. Clinical process; research in teaching of psychotherapy. Publ: Co-auth, Perspectives in clinical psychology, Van Nostrand, 68 & Intuition—a preliminary statement, Psychiat. Quart. Suppl, 39:1; auth, Toward a systematic study of empathy, Comp Psychiat, 10/67. Address: Dept. of Psychiatry, University of Michigan, Ann Arbor, Mich. 48104.

GUITHUES, DR. HENRY JAMES, b. East St. Louis, Ill, Sept. 6, 23; m. 47; c. 2. FINANCE, BUSINESS ADMINISTRATION. B.S.B.A, Washington (St. Louis), 56, M.B.A, 59, Ph.D.(bus. admin), St. Louis, 62. ASSOC. PROF. FINANCE, ST. LOUIS, 59- Financial consult, 59- U.S.A.R, Capt. Financial operating efficiency of financial and educational institutions. Address: School of Commerce & Finance, St. Louis University, 3674 Lindell Blvd, St. Louis, Mo. 63108.

GULICK, PROF. CHARLES A(DAMS), b. Dallas, Tex, Sept. 13, 96; m. 19, 34; c. 1. ECONOMICS. A.B, Texas, 18, A.M, 19; fel, Columbia, 22-23, Ph.D, 24. Tutor Eng, Texas, 19-20; ECON, 20-21; instr, N.Y. Univ, 22-23; Columbia, 23-26; asst. prof, CALIFORNIA, BERKELEY, 26-29, assoc. prof, 29-38, prof, 38-63, EMER. PROF, 63- Grant in aid, Soc. Sci. Res. Coun, 36; inst. soc. sci, California, 36; Carnegie Corp, 39; vis. prof, N.Y. State Sch. Indust. & Labor Rels, Cornell, 51; guest prof, Inst. Adv. Studies, Vienna, Austria, 64. Prize, City of Vienna, 50. U.S.A, 18-19. Labor economics; labor history; theories of working-class movements. Publ: Labor policy of the U.S. Steel Corporation; co-auth, Trust and corporation problems; Austria from Habsburg to Hitler. Address: 490 Grizzly Peak, Berkeley, Calif. 94708.

GULICK, DR. JOHN, b. Newton, Mass, Apr. 18, 24; m. 46; c. 3. SOCIAL ANTHROPOLOGY. A.B, Harvard, 49, A.M, 51, fel, 51, 53, Ph.D.(anthrop), 53. Lectr. soc. anthrop, American Univ, Beirut, 52; instr. sociol, Adelphi Col, 53-55; asst. prof. ANTHROP, NORTH CAROLINA, 55-59, assoc. prof, 59-64, PROF, 64-, CHMN. DEPT, 65-, dir. cross-cultural lab, 55-59. U.S.A, 43-46. Fel. Anthrop. Asn; Soc. Appl. Anthrop; fel. Mid. East Studies Asn; Mid. East Inst. Social structure and acculturation in the Middle East; community social structure. Publ: Social structure and culture change in a Lebanese village; Cherokees at the crossroads; Tripoli: a modern Arab city, Harvard, 67. Address: 1029 Highland Woods, Chapel Hill, N.C. 27514.

GULICK, DR. LEWIS, b. Karuizawa, Japan, Sept. 5, 23; U.S. citizen. POLITICAL SCIENCE. B.A, DePauw, 45; M.A, Georgetown, 48, Ph.D.(govt), 55. REPORTER, WASH. BUR, ASSOCIATED PRESS, 51- U.S.A, 43-46. Polit. Sci. Asn. International relations. Address: 1415 N. Nash St, Arlington, Va. 22209.

GULICK, DR. LUTHER H(ALSEY), b. Osaka, Japan, Jan. 17, 92; U.S. citizen; m. 17; c. 2. PUBLIC ADMINISTRATION. A.B, Oberlin Col, 14, A.M, 15, Litt.D, 39; Ph.D.(pub. law), Columbia, 20, LL.D, 54; LL.D, Whitman Col, 52. Mem. staff, N.Y. Bur. Munic. Res, 16, dir, 22; pres, Inst. Pub. Admin, 23-50, 53-54; exec. dir, Mayor's Cmt. Mgt. Surv, 50-53; adminstr, City of New York, 54-55; pres, INST. PUB. ADMIN, 56-61, CHMN, 61- Eaton prof, Columbia, 31-42; Cook lectr, Michigan, 61; Dodge lectr, Yale; Wherrett lectr, Pittsburgh; lectr, Union Col; Pennsylvania; Virginia; Harvard; Mass. Inst. Tech; Buffalo. Consult. post defense planning, Nat. Resources Planning Bd, 41-43; orgn, Smaller War Plants Corp, 44-45. Dir, State Regents Inquiry, N.Y, 36; off. orgn. planning War Prod. Bd, 42-44; mem. staff, White House, 45-46; mem. State Cmn. Opers, N.Y, 58-61; dir. res, State Legis. Cmt, Mass; N.Y; Mich; Va; Tenn; Maine. U.S.A, 17-18, Capt. Fel. AAAS; Soc. Pub. Admin. (pres, 43); Polit. Sci. Asn.(pres, 51); Govt. Res. Asn; Planning Asn. Government; administration; education. Publ: Modern management for the city of New York; Education for American life; The metropolitan problem and American ideas. Address: Institute of Public Administration, 55 W. 44th St, New York, N.Y. 10036.

GULICK, DR. LUTHER H(ALSEY), JR, b. Brooklyn, N.Y, Sept. 23, 22; m. 48; c. 3. GEOGRAPHY. B.A, Oberlin Col, 43; M.A, Chicago, 48, Ph.D.(geog), 52. Asst. prof. geog, Fla. State, 48-49; with land use classification, Govt.

P.R, 50-51; from instr. to assoc. prof. GEOG, Winona State Col, 53-62; PROF, STATE UNIV. N.Y. COL. POTSDAM, 62- Fulbright res. grant, W.Pakistan, 59-60; Nat. Defense Ed. Act. fel. lang, Pennsylvania, 66-67. Sig.C, U.S.A, 43-46. Asn. Am. Geog. Latin America; Asia; economic geography. Publ: Rural occupance in Utuado and Jayuya Municipios, Puerto Rico; Cotton-wheat farm in Hyderabad district, West Pakistan, Pakistan Geog. Rev; Irrigation systems of the former Sind Province, West Pakistan, Geog. Rev, 63. Address: Dept. of Geography, State University of New York College at Potsdam, Potsdam, N.Y. 13676.

GULICK, DEAN ROBERT L, JR, b. Paradise, Calif, Oct. 6, 12; m. 50; c. 1. INTERNATIONAL STUDIES. B.A, Chico State Col, 33; M.A, California, Berkeley, 41, Ph.D.(ed), 48. Exam. aid, U.S. Customs Serv, Calif, 37-43; economist, Carnegie Endowment Int. Peace, 43-47; lectr. int. econ, California, Berkeley, 46-52, res. assoc, 52-53; asst. mgr. supv. & training, Tripoli Base Exchange, U.S. Govt, 54-57; master Eng, Govt. Libya, 58-64; DEAN ADMISSIONS & PROF. AREA STUDIES N. AFRICA & MID. EAST, AM. INST. FOR. TRADE, 64- Res. fel, Yale, 43-44. N.Africa prog. consult, Meals Millions Found, 57-64. Secy-treas, Cmt. Int. Econ. Policy, 44-47; Tripoli rep, Am. Friends Mid. East, 55-60; sponsor, Atlantic Union Coun, 62-; pres, Am. Literacy League, Inc, 67- Islamic civilization and the social problems of North Africa and the Middle East; promoting literacy in English wherever the American flag flies. Publ: Imports, the gain from trade, Carnegie Endowment Int. Peace, 45; Muhammad the educator, Inst. Islamic Culture, Pakistan, 55; American higher education—uncertain trumpet?, Ed. Press, Cairo, U.A.R, 60. Address: American Institute for Foreign Trade, Box 191, 59th Ave. & Greenway Rd, Phoenix, Ariz. 85001.

GULLAHORN, DR. JEANNE E(RARD), b. Springfield, Mass, Mar. 11, 32; m. 55; c. 2. SOCIAL PSYCHOLOGY. A.B, Radcliffe Col, 54; Rotary Found. fel, Paris, 54-55; M.A, Kansas, 58; univ. fel, Mich. State, 58-59, Nat. Sci. Found. fel, 59-61, Ph.D.(psychol), 64. Res. assoc, U.S. Dept. State, 54-55; asst, endocrine lab, Kansas, 55-56; staff asst, Trans World Airlines, 56-57; res. assoc, for. student leadership proj, U.S. Nat. Student Asn, 57-58; consult, artificial intel. staff, Syst. Develop. Corp, 61-65; ASST. PROF. PSYCHOL, MICH. STATE, 65- Asst, Kansas, 56-57. Consult, seminars int. commun, U.S. Agency Int. Develop, 61; vis. scientist, Syst. Develop. Corp, 65-66. Sociol. Asn; Psychol. Asn. Computer simulation of cognitive and social processes; cross-cultural education; small group interaction; role theory. Publ: The multivariate approaches in survey data processing, Multivariate Behavior. Res. Monogr, 67; co-auth, The computer as a tool for theory development, In: Uses of computers in anthropology, Mouton, 65 and Some computer applications in social science, Am. Sociol. Rev, 65. Address: 313 E. Brookfield Dr, East Lansing, Mich. 48823.

GULLAHORN, PROF. JOHN T(AYLOR), b. Roswell, N.Mex, July 13, 16; m. 55; c. 2. SOCIOLOGY. A.B, Southern California, 37, A.M, 45; fel, Harvard, 52-53, Ph.D.(sociol), 53. Asst, lab. soc. rels, Harvard, 50-52, res. assoc, 52-53; asst. prof. sociol, Ohio, 53-54; res. dir, Am. students, Paris, France, 54-55; asst. prof. soc. and human rels, Kansas, 55-58; SOCIOL, MICH. STATE, 58-60, assoc. prof, 60-64, PROF, DEPT. SOCIOL. & COMPUT. INST. SOC. SCI. RES, 64- Wertheim res. fel, Harvard, 53; Soc. Sci. Res. Coun. faculty training & res. fel, 61; vis. assoc. prof, California, Berkeley, 62-63; Nat. Sci. Found. sr. fel, 65-66 & res. grant, 65-69; Nat. Inst. Ment. Health res. grant, 68-70. Consult, Trans-World Airlines, 56-57; int. ed. exchange serv, U.S. Dept. State, 56-60; for. student leadership proj, U.S. Nat. Student Asn, 57-58; Syst. Develop. Corp, Calif, 61-67, vis. scientist, 65-66. U.S.A, 43-46. AAAS; Sociol. Asn; Soc. Appl. Anthrop; Asn. Comput. Mach; Soc. Study Social Probs; Soc. Gen. Systs. Res. Computer simulation of social behavior; cross-cultural education; small group interaction. Publ: Co-auth, The computer as a tool for theory development, In: The use of computers in anthropology, Mouton & Co, Netherlands, 65, Some computer applications in social science, Am. Sociol. Res, 65 and American students abroad: professional versus personal development, Ann. Am. Acad. Soc. & Polit. Sci, 66. Address: 313 E. Brookfield Circle, East Lansing, Mich. 48823.

GULLER, DR. IRVING B, b. New York, N.Y, July 27, 32; m; c. 2. CLINICAL, SOCIAL & INDUSTRIAL PSYCHOLOGY. B.A, City Col. New York, 54, M.S, 58; Ph.D.(clin. psychol), N.Y. Univ, 62. Placement counselor, N.Y. State Prfnl. Off, 56-58; clin. psychologist, N.Y. Univ-Bellevue Rehab, 59-62; dir. training & res. psychol, State of Maine Dept. Ment. Health, 62-63; asst. prof. psychol. & col. psychologist, Franklin & Marshall Col, 63-67; ASSOC. PROF. PSYCHOL, JOHN JAY COL, CITY UNIV. N.Y, 67- Consult. psychologist, Kennebec Ment. Health Clin. & Maine Women's Reformatory, 62-63; Lancaster Guid. Clin, 64-67; Am. Mgt. Psychologists, 67- Consult. psychologist-psychotherapist, 62- U.S.A, 54-56. Psychol. Asn; Acad. Polit. & Soc. Sci. Stability of self concept; etiology of schizophrenia; emotional problems of students; psychological correlates of political behavior; small group behavior. Publ: Clinical psychology guide and handbook, State of Maine, 63; Stability of self concept in schizophrenia, J. Abnorm. Psychol, 66; Institutional practice of psychology. Address: Dept. of Psychology, John Jay College of the City University of New York, 315 Park Ave S, New York, N.Y. 10003.

GULLIKSEN, PROF. HAROLD, b. Washington, D.C, July 18, 03; m. 30; c. 2. PSYCHOLOGY. B.A, Washington (Seattle), 26, M.A, 27; Ohio State, 27-29; Ph.D.(psychol), Chicago, 31. Asst. psychol, Washington (Seattle), 25-27; instr, Ohio State, 27-29; Chicago, 30-31, asst, 33-34, exam. soc. sci, bd. exams, 34-40, asst. prof. psychol, 38-42, assoc. prof, 42-45; res. assoc, Mooseheart Lab. Child Res, 31-33; res. secy, Col. Entrance Exam. Bd, N.J, 45-47; PROF. PSYCHOL, PRINCETON, 45-; RES. ADV, ED. TESTING SERV, 48- Managing ed, Psychometrika, 42-49. Dir, U.S. Navy & Nat. Defense Res. Coun. Projs, 42-45. Fel. Psychol. Asn; Psychomet. Soc.(pres, 43); fel. Statist. Asn; Inst. Math. Statist. Learning and transfer; psychological tests. Publ: Theory of mental tests; co-ed, Psychological-scaling; theory and practice, Wiley, 60 & Contributions to mathematical psychology, Holt, 64. Address: Dept. of Psychology, Green Hall, Princeton University, Princeton, N.J. 08540.

GUMBEL, PROF. EMIL J(ULIUS), Statist, see 11th ed. Phys. & Biol. Vols.

GUMENIK, DR. WILLIAM E, b. New York, N.Y, Sept. 1, 32; m. 60; c. 2. PSYCHOLOGY. A.B, Brooklyn Col, 53, A.M, 58; Ph.D.(psychol), N.Y. Univ, 62. Instr. PSYCHOL, Vassar Col, 61-62; Hunter Col, 62-63; asst. prof, TOLEDO, 63-66, ASSOC. PROF, 66- U.S.A, 54-57. Psychol. Asn; Psychonomic Soc. Experimental psychology, specifically in the areas of verbal learning, perception and research design. Publ: Verbal repetition and changes in meaning of synonyms: satiation or set?, J. Verbal Learning & Verbal Behav, 65; Verbal repetition, set, and decision latency, J. Exp. Psychol, 66; Effects of the relevance of interpolated stimuli on time-error in the comparative judgments of weights, Am. J. Psychol, 67. Address: Dept. of Psychology, University of Toledo, Toledo, Ohio 43606.

GUNDERSON, DR. E(LLSWORTH) K. ERIC, Psychol, see 11th ed, Phys. & Biol. Vols.

GUNDERSON, PROF. SHERMAN E, b. U.S. Sept. 3, 06; m. 28; c. 3. ECONOMICS. Ph.B, Ripon Col, 27; M.A. Columbia, 34; Ph.D. Iowa, 50. PROF. ECON. & CHMN. DEPT. WIS. STATE. OSHKOSH, 46-. V.PRES. PROG. DEVELOP. & STAFFING, 66- Mem. State Teachers Retirement Bd, Wis, 57-; chmn. local res. cmt, Wis. State. Oshkosh. Econ. Asn. Economic theory; international. labor and institutional economics. Address: Dept. of Economics, Wisconsin State University. 800 Algoma Blvd. Oshkosh. Wis. 54901.

GUNDLACH, DR. RALPH H(ARRELSON), b. Kansas City, Mo, June 17, 02; m. 26; 38; c. 3. CLINICAL PSYCHOLOGY. B.A. Washington (Seattle), 24, fel, 24-25, M.A, 25; Ph.D.(psychol), Illinois, 28. Asst, Illinois, 25-27; instr. psychol, Washington (Seattle), 27-30, asst. prof, 30-37, assoc. prof, 37-49; sr. psychologist, Postgrad. Center for Psychother, 53-67, ASSOC. DIR. res, 59-; PSYCHOLOGIST. PARTIAL HOSPITALIZATION PROG, COMMUNITY MENT. HEALTH CENTER. N.Y. MED. COL-METROP. HOSP. 67- Private practice. 53-. Psychologist. induction stas. U.S.A, 42; summer lectr. California, 39, 42-44. Southern California, 40. British Columbia. 44. Iowa. 45. N.Y. Univ, 46. Mem. Coun. Psychoanal. Psychother. Dipl. Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Orthopsychiat. Asn; Soc. Proj. Tech. Psychotherapy; social change. Publ: Co-auth. Homosexuality: auth. Group psychotherapy; new clinical and experimental approaches. In: Progress in clinical psychology; Psychological bases of permanent peace. J. Soc. Psychol. Address: 160 E. 84th. Apt. 2K. New York, N.Y. 10028.

GUNDLE, DR. SIGMUND, Psychiat, see 11th ed, Phys. & Biol. Vols.

GUNLICKS, DR. ARTHUR B, b. North Platte, Nebr, July 7, 36; m. 62. POLITICAL SCIENCE. B.A, Denver, 58; German Govt. grant, Freiburg, 58-59; Fulbright Found. fel, Gottingen, 64-65; Ph.D.(polit. sci), Georgetown, 67. ASST. PROF. POLIT. SCI. EAST TENN. STATE, 66- U.S.A, 59-61, 1st Lt. Polit. Sci. Asn. Comparative politics in Western Europe, particularly Germany; political parties in United States and Western Europe. Address: Dept. of Political Science, East Tennessee State University. Johnson City. Tenn. 37601.

GUNN, PROF. H(AROLD) D(ALE), b. Dallas, Tex, Aug. 3, 18; m. 46; c. 3. CULTURAL ANTHROPOLOGY. B.A. Southern Methodist, 41; M.A, London, 49. With U.S. War Dept, Wash, D.C, 42-43; Off. War Info, Wash, D.C, London & Paris, 43-46; res. anthropologist, Int. African Inst, London & Nigeria, 48-52; instr. anthrop, Connecticut, 52-57; ASST. PROF. ANTHROP. & HIST, LINCOLN (PA), 60-, CURATOR, AFRICAN COLLECTIONS, 62- Hays-Fulbright fel, 67-68. Consult, G. & C. Merriam Co, 55-60; Commercial Mus, Phila, Pa, 57-59. Fel. Anthrop. Asn; fel. African Studies Asn. Culture: change; West African ethnology, history and art; history of Nigerian middle belt; typology of graphic effects in African art. Publ: Co-auth, Peoples of the middle Niger region, Northern Nigeria, Int. African Inst.(London), 60, Pagan peoples of the central area of Northern Nigeria; Handbook of the African collections of the Commercial Museum, Philadelphia. Address: P.O. Box 22, Lincoln University, Pa. 19352.

GUNN, DR. ROBERT LEROY, b. Hartselle, Ala, Oct. 22, 14; m; c. 2. PSYCHOLOGY. B.A, Wayne State, 50, M.A, 51; Ph.D, Western Reserve, 56. Counseling psychologist, Vet. Admin, 57-61, RES. PSYCHOLOGIST, SEPULVEDA VET. ADMIN. HOSP, 61- Res. consult, nursing sch, Valley Jr. Col, 60- U.S.A, 44-46. Psychol. Asn. Construction and development of psychological measures; criteria and psychopathology research: problems of counseling psychiatric patients; management selection. Publ: Factor analysis of the job components check list; co-auth, Live presentation of dramatic scenes as stimulus to patient interaction in group psychotherapy, J. Group Psychother, 63 & Assessment of social functioning after hospitalization, Ment. Hyg, 67. Address: 17252 Van Gogh, Granada Hills, Calif. 91344.

GUNN, DR. THOMAS I(VER), b. Richfield, Utah, Dec. 7, 25; m. 53; c. 4. AGRICULTURAL ECONOMICS. B.S, Brigham Young, 51; M.S, Utah State, 53; Ph.D.(agr. econ), Cornell, 55. Asst. agr. econ, Utah State, 52-53; Cornell, 53-55, mkt. specialist, mkt. farm prods, 55-56; asst. prof. agr. econ, Washington State, 56-61; mgr. Sacramento State Col. Found, 61-66, exec. dir, 66-67; RES. COORDINATOR, FRESNO STATE COL, 67- Mem, Nat. Coun. Univ. Res. Adminstrs, 66. U.S.A, 45-46. Management problems of agricultural marketing businesses. Address: Fresno State College, Shaw & Ceder Aves, Fresno, Calif. 93726.

GUNNARSON, ARTHUR B(ERNARD), b. Minneapolis, Minn, May 15, 96; m. 24. ECONOMICS. A.B, Minnesota, 20; M.B.A, Harvard, 24. Instr, Minnesota, 20-22; Northeastern, 22-24; grad. sch. bus. admin, Harvard, 24-25; auditor, Washburn-Crosby Co, 25-28; controller, Red Owl Stores, Inc, 28-30; mem. admin. & res. staff, U.S. Chamber Commerce, 30-45; asst. secy, Nat. Asn. Acct, 45-48, secy, 48-61, consult, 61-63; observer, UN Nat. Lutheran Coun, 64-66. U.S.A, 18-19. Econ. Asn; Mkt. Asn; Am. Acct. Asn; Nat. Asn. Acct. Address: 281 Garth Rd, Apt. C-2-K, Scarsdale, N.Y. 10583.

GUNNERSON, DR. JAMES H(OWARD), b. Aurora, Nebr, Nov. 28, 22; m. 44; c. 1. ANTHROPOLOGY. B.S, Nebraska, 49, M.A, 50; Ph.D.(anthrop), Harvard, 63. Curator, mus. anthrop. & field dir. statewide archaeol. surv, Univ. Utah, 55-60; asst. prof. ANTHROP, NORTHERN ILLINOIS, 63-64, ASSOC. PROF, 64- Nat. Sci. Found. res. grants archaeol. invests, 64-68.

Assoc. Current Anthrop. C.W.S, U.S.A, 43-46. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol. Archaeology, ethnology and ethnohistory of the Plains, Southwest and Great Basin of North America, especially relationships between areas. Publ: Introduction to Plains Apache archaeology: the Dismal River aspect, Bur. Am. Ethnol, 60; Fremont culture: internal dimensions and external relationships, Am. Antiquity; co-auth, Spread of eight-rowed maize from the pre-historic Southwest, Harvard Bot. Mus. Leaflets, 63. Address: Dept. of Sociology & Anthropology, Northern Illinois University, DeKalb, Ill. 60115.

GUNNING, EMILY HELEN, b. Los Angeles, Calif, June 21, 21. SOCIOLOGY, ANTHROPOLOGY. B.A, Columbia, 42, M.A, 45; California, Los Angeles, 50- Asst. mkt. res, Facts Consol, 45-50; mgr. adv. & audience res, Audience Tested Prods, 50-55; assoc. producer & ed, Film Assocs. of Calif, 55-66; INSTR. SOCIOL. & CONSULT. AUDIO VISUAL INSTR. L.A. VALLEY COL, 66- Consult. TV teaching, L.A. County Schs, 67. Fel. Sociol. Asn; Asn. Ed. Broadcaster; Nat. Ed. Asn. Mass media films; content analysis; audience research; audio-visual education. Address: 1715½ Selby Ave, Los Angeles, Calif. 90024.

GUNTER, DR. CRAIG GLENN, b. Winnipeg, Man, Aug. 28, 20; m. 59; c. 3. POLITICAL SCIENCE. B.A, Illinois, 43; M.S, Wisconsin, 48 & 57; Ed.D. (polit. sci, higher ed), Washington State, 64. Asst. instr. polit. sci, Washington (Seattle), 46-47; capt. & instr. soc. sci, N.Mex. Mil. Inst, 55-56; instr. polit. sci, Yakima Valley Col, 58-62; asst. prof. & asst. dean, Laurentian Univ, 64-65; asst. prof. POLIT. SCI, Concord Col, 65-66; Wis. State, Oshkosh, 66-68; ASSOC. PROF, PUGET SOUND, 68- Polit. Sci. Asn. American presidency; legislative processes; Canadian government. Address: Dept. of Political Science, University of Puget Sound, Tacoma, Wash. 98416.

(GLIDDEN-) GUNTER, PROF. RALPH, Neurophysiol, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GUNTHER, DR. ERNA, b. Brooklyn, N.Y, Nov. 9, 96; m. 21; c. 2. ANTHROPOLOGY. A.B, Columbia, 19, A.M, 20, Ph.D.(anthrop), 28. Lectr. ANTHROP, Washington (Seattle), 23-24, asst. prof, 29-41, prof, 41-67; PROF. & CHMN. DEPT, ALASKA, 67- Dir, Wash. State Mus, 29-67. Anthrop. Asn; Ethnol. Soc. Publ: Further analysis of the first salmon ceremony; Art in the life of Northwest Coast Indians. Address: Dept. of Anthropology, University of Alaska, College, Alaska 99735.

GUNTHER, PAUL, Statist, see 10th ed, Soc. & Behav. Vols.

GUPPY, DR. WILLIAM ANTHONY, b. Seattle, Wash, June 30, 25; m. 52; c. 7. PSYCHOLOGY. Ph.B, Seattle, 50; M.A, Loyola (Ill), 54, Ph.D, 59. Instr. PSYCHOL, Seattle, 53-57; test consult, Scholastic Testing Serv, Ill, 57-58; asst, Illinois, 58-59; asst. prof, SEATTLE, 59-65, ASSOC. PROF, 65- Psychol. Asn. Child psychology; psychological and educational tests; college teaching. Address: 955 16th Ave. E, Seattle, Wash. 98102.

GUPTA, DR. NAIM CHAND, Ed. Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

GUPTA, PROF. RAGHUVIR, Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols.

GUPTA, PROF. RATANLAL N, b. Gulabganj, India, Oct. 10, 31; m. 53; c. 5. POLITICAL SCIENCE. B.A, Bombay, 52, M.A, 56; M.A, Howard, 64. Instr. polit. sci, Parsons Col, 64-65; Edward Waters Col, 65-66; ASSOC. PROF. SOC. SCI, FT. VALLEY STATE COL, 66- Polit. Sci. Asn. South Asia, India, Afghanistan, Pakistan & South East Asian countries; American national government; presidential politics; international relations. Address: Ft. Valley State College, Ft. Valley, Ga. 31030.

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GUPTILL, DR. CARLETON S(ANBORN), b. Limestone, Maine, Aug. 5, 29; m. 59; c. 1. SOCIOLOGY. A.B, Emory, 50, M.A, 51; Cokesbury fel, Duke, 60-61, Ph.D.(sociol), 65. Teacher, high sch, Ga, 51-52, elem. sch, 53-57; assoc. prof. sociol, La Grange Col, 57-60 & 62-64; instr. & res. asst, Duke, 64-65; RES. ASSOC. SOCIOL. & EPIDEMIOL, MICHIGAN, 65-; ASSOC. PROF. SOCIOL, EASTERN MICHIGAN, 66- Sociol. Asn. Social gerontology; racial and minority relations; social psychology; medical sociology. Publ: Co-auth, Retirement and self-ratings, Chap. In: The social aspects of aging, Duke, 66. Address: University of Michigan School of Public Health, 920 N. Main St, Ann Arbor, Mich. 48104.

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GURLAND, PROF. JOHN, Statist, see 11th ed, Phys. & Biol. Vols.

GURLEY, PROF. JOHN G(REY), b. Alameda, Calif, Feb. 25, 20; m. ECONOMICS. B.A, Stanford, 42, Ph.D, 51. From instr. to asst. prof, Princeton, 50-53; assoc. prof. ECON, Maryland, 53-58, PROF, 58-61; STANFORD, 61- Res. assoc, Brookings Inst, 54-58, mem. sr. staff, 58-61. U.S.A.A.F, 42-46. Econ. Asn.(ed, Am. Econ. Rev, 62-); Finance Asn. Money and banking; economic theory; public finance. Publ: Co-auth, Financial aspects of economic development, Am. Econ. Rev. & Financial structures and economic development, Econ. Develop. & Cultural Change, 4/67; National tax policy, Nat. Tax J, 9/67. Address: Dept. of Economics, Stanford University, Stanford, Calif. 94305.

GURMAN, DR. ERNEST B(ASIL), b. Jackson, Miss, Aug. 10, 33. INDUSTRIAL & SOCIAL PSYCHOLOGY. B.S, Southern Mississippi, 57; M.A, La. State, 59, Ph.D.(psychol), 62. Asst. prof. psychol, Southern Mississippi, 60-62, assoc. prof, 62-66; chmn. dept. human factors, INST. AEROSPACE SAFETY & MGT. SOUTHERN CALIFORNIA, 66-67, ASSOC. DIR. GRAD. PROGS, 67- Lectr, Maryland, 64-65. Psychol. Asn. U.S.A.F, 54-56, Res, 56-, Capt. Small group evaluation; leadership and organizational behavior; development group training. Publ: Co-auth, Subjective compared with objective measures of performance in groups, J. Abnorm. & Soc. Psychol; auth, Creativity as a function of orientation and group participation, Psychol. Reports, 22: 471-478. Address: Institute of Aerospace Safety & Management, University of Southern California, Los Angeles, Calif. 90007.

GURNEE, PROF. HERBERT, b. Providence, R.I, Nov. 3, 95; m. 19; c. 2. PSYCHOLOGY. A.B, Wesleyan, 22, M.A, 23; Boston, 22-23; Ph.D.(psychol), Harvard, 29. Instr. PSYCHOL, Yale, 26-28; asst. prof, Western Reserve, 28-43; assoc. prof, ARIZONA STATE, 43-47, prof, 47-66, EMER. PROF, 66- Fel. Psychol. Asn. Human learning in social situations. Publ: Maze learning in the collective situation, J. Psychol; Effect of electric shock for right responses on maze learning in human subjects; Group learning, Psychol. Mongrs, 62. Address: Dept. of Psychology, Arizona State University, Tempe, Ariz. 85281.

GURNEY, DR. MARGARET, b. Washington, D.C, Oct. 28, 08. MATHEMATICAL STATISTICS. A.B, Swarthmore Col, 30; A.M, Brown, 31, Ph.D, 34; Univ. Goettingen, Germany, 32-33. Teacher, private schs, 35-38; statist. consult, U.S. Bur. Budget, 38-40, economist, 40-44; MATH. STATISTICIAN, U.S. BUR. CENSUS, 44- Vis. lectr, Stanford, 52. Consult, Bur. Labor Statist, P.R, 61; agency int. develop, Am. Foreign Serv, Thailand, 62, Dominican Repub, 63; summer consult, Soc. Welfare Bd, Sweden, 53. Statist. Asn; Inst. Math. Statist; Math. Soc. Statistical sampling and response; planning and implementation of sample surveys in demographic and economic fields. Publ: Problem of optimum stratification: II; Sample design, In: Atlanta, a case study in household surveys, Bur. Census, 66. Address: Commerce Dept, Bureau of the Census, Washington, D.C. 20233.

GURR, DR. MURIEL NELSON, b. U.S; m. 40. GUIDANCE. B.S, Illinois, 39; M.S, Western Illinois, 49; Ph.D, Northwestern, 56. Counsr. & dir. testing, high schs, Ariz, 49-56, dir. guid, 56-59; supvr. guid. serv, Ariz. State Dept. Voc. Ed, 59-66; DIR. GUID. SERV, ARIZ. STATE DEPT. PUB. INSTR, 66- Vis. lectr, Arizona State, 59-; Arizona, 59- Mem. nat. conf. cmt. guid. supvrs, U.S. Off. Ed, 61. Psychol. Asn; Personnel & Guid. Asn. Student personnel services; occupational choices of adolescents; employment and utilization of womanpower. Address: 6802 N. Second Place, Phoenix, Ariz. 85012.

GURR, DR. TED (ROBERT), b. Spokane, Wash, Feb. 21, 36; m. 60; c. 2. POLITICAL SCIENCE. B.A, Reed Col, 57; univ. & Woodrow Wilson fels, Princeton, 57-58; Ph.D.(polit. sci), N.Y. Univ, 65. Res. assoc. to Prof. Alfred de Grazia, 58-59; asst. ed, Am. Behav. Scientist, 59-61; asst. to dir. off. res. serv, N.Y. Univ, 62-64; res. assoc, CENTER INT. STUDIES, PRINCETON, 65-67, ASST. PROF. POLIT. & ASSOC. DIR. WORKSHOP COMP. POLIT, 67- Vis. asst. prof, N.Y. Univ, 66-67. Polit. Sci. Asn; African Studies Asn; Int. Peace Res. Asn. Theoretical and quantitative, comparative longitudinal and cross-national studies of civil strife; comparative studies of authority patterns and political performance, especially in developing areas. Publ: Co-auth, American welfare, N.Y. Univ, 62; auth, The conditions of civil violence: first tests of a causal model, Center Int. Studies, Princeton, 67; Psychological factors in civil strife, World Polit, 1/68. Address: Center of International Studies, Princeton University, Princeton, N.J. 08540.

GURVITZ, DR. MILTON SOLOMON, b. Buffalo, N.Y, Nov. 27, 19; m. 48; c. 2. PSYCHOLOGY. B.S, State Univ. N.Y. Col. Buffalo, 41; M.A, N.Y. Univ, 48, Ph.D, 50. Psychologist & asst, U.S. Pub. Health Serv. Hosp, U.S. Penitentiary, Lewisburg, Pa, 43-46; psychologist, Hillside Hosp, 46-47, chief psychologist, 49-55; psychologist, Center Psychol. Serv, 47; private practice, 50- Dir, Brooklyn Asn. Rehab. Offenders, 50-54; instr, Nat. Psychol. Asn. for Psychoanal, 57-; dir, Great Neck Consult. Center, 62- Consult, State Cmn. on Alcoholism, Conn, 48-53; Jewish Community Serv. L.I, 53-60. Dipl, Am. Bd. Exam. Prfnl. Psychol, 55. Fel. Psychol. Asn; fel. Soc. Proj. Tech; Psychol. Asn. for Psychoanal. Psychological concomitants of aging; intelligence test construction; diagnostic psychological testing; crime and delinquency; play and group play therapy; psychoanalysis. Publ: Diagnostic psychological testing, Grune, 50. Address: 54 Gateway Dr, Great Neck, N.Y. 11021.

GUSFIELD, PROF. JOSEPH R, b. Chicago, Ill, Sept. 6, 23; m. 46; c. 3. SOCIOLOGY. B.Ph, Chicago, 46, M.A, 49, Ph.D, 54. Asst. soc. sci, Chicago, 47-49, instr, 49-51; asst. prof. SOCIOL, Hobart & William Smith Cols, 51-55; Illinois, Urbana, 55-59, assoc. prof, 59-64, prof, 64-68, res. assoc, inst. indust. rels, 58; PROF. & CHMN. DEPT, CALIFORNIA, SAN DIEGO, 68- Fulbright lectr, Patna Univ, India, 62-63, Am. Insts, Bangalore, 66; exchange prof, inst. mgt. & labor, Keio Univ, Japan, 67-68. Summers, asst. vis. prof, Chicago, 51-56. Med.Dept, U.S.A, 43-46. Sociol. Asn; Soc. Study of Social Probs. Social and political movements; sociology of education, occupations and organizations. Publ: Symbolic crusade; Tradition and modernity; Equality and education in India. Address: Dept. of Sociology, University of California, San Diego, La Jolla, Calif. 92038.

GUSHIN, HAROLD, Org. Chem, Eng. Econ, see 11th ed, Phys. & Biol. Vols. & Suppl. II.

GUSINDE, DR. MARTIN, Anthrop, see 10th ed, Soc. & Behav. Vols. Latest known address: St. Gabriel, Mödling bei Wien, Austria-Europe.

GUSKIN, DR. SAMUEL L(OUIS), b. Brooklyn, N.Y, June 17, 32; m. 59. PSYCHOLOGY. B.S, Brooklyn Col, 53; M.A, North Carolina, 55, Ph.D.(psychol), 58. Asst, inst. res. soc. sci, North Carolina, 56-57; disaster res. group, Nat. Acad. Sci-Nat. Res. Coun, 57-59, consult, 59; res. officer, Res. Servs, Ltd, Eng, 59-60; assoc. prof. soc. psychol, Peabody Col, 60-63; res. proj. dir, St. Louis County Health Dept, 63-65; ASSOC. PROF. ED, INDIANA, 65- Resident, Russell Sage Found, 58-59. Mem. Coun. Except. Children. Psychol. Asn; Ed. Res. Asn; Asn. Ment. Deficiency. Social psychology of learning; reactions to physically and mentally deviant persons; cognitive development of mentally retarded; attitude measurement and change. Publ: Social psychologies of mental deficiency; Percieved similarity among deviant types, Am. J. Ment. Deficiency, 63; co-auth, Educational research in mental retardation, Chap. in book, Academic, 68. Address: School of Education, Indiana University, Bloomington, Ind. 47401.

GUSSOW, DR. ZACHARY, b. Brooklyn, N.Y, May 18, 23; m. 61. CULTURAL ANTHROPOLOGY. B.A, New Mexico, 48; Ph.D, Columbia, 54; Nat. Psychol. Asn. for Psychoanal, 56-59; New Sch. Soc. Res, 57-59. Consult, anthropologist, Am. Indian land claims, U.S. Govt, 53-54, 55-56; res. assoc. ment. health ed, res. div, Bank St. Col. Ed, 56-61; instr. ANTHROP, DEPT. PSYCHIAT, Seton Hall Col. Med. & Dent, 61; asst. prof, SCH. MED, LA. STATE, 61-65, ASSOC. PROF, 65- Lectr, City Col. New York, 57-58; Adelphi Col, 60. Consult, U.S. Pub. Health Serv. Hosp, Carville, 61- U.S. Merchant Marine, 43-46. Anthrop. Asn; Ethnol. Soc. Social and emotional factors in psychiatric and medical illness; school and mental health; medical education. Publ: Piblotoq (hysteria) among the Polar Eskimo: an ethnopsychiatric study; Kayakangst among the Eskimo of West Greenland: a study in sensory deprivation. Address: Dept. of Psychiatry, Louisiana State University Medical Center, 1542 Tulane Ave, New Orleans, La. 70112.

GUSTAD, PROF. JOHN W(ILBERT), b. St. Paul, Minn, Oct. 28, 22; m. 45; c. 1. PSYCHOLOGY. B.A, Macalester Col, 43; M.A, Minnesota, 48, Ph.D. (psychol), 49. Asst. psychol, Minnesota, 46-47, instr, 47-49; asst. prof. & dir. univ. counseling serv, Vanderbilt, 49-52; assoc. prof, Maryland, 52-56, prof. & dir. counseling center, 56-60; dean col. lib. arts & prof. psychol, Alfred, 60-63; provost & dean, New Col, 63-66; PROF. PSYCHOL. & HIGHER ED. & ASSOC. DEAN COL. ARTS & SCI, OHIO STATE, 66- Analyst, opers. res. off, John Hopkins, 52; vis. prof, Harvard, 59; Ohio State, 65-66. Dir. col. teacher prog, New Eng. Bd. Higher Ed, 59-60. Consult, Vet. Admin, Wash, D.C, 53-60; sch. math. study group, Yale, 58-60. U.S.N, 43-46, Lt. Fel. AAAS; fel. Psychol. Asn; Psychomet. Soc; Asn. Higher Ed. Occupational choice; interview theory and methods; faculty personnel administration. Publ: Co-auth, Career decisions of college teachers; How to interview; Graduate education in psychology. Address: College of Arts & Sciences, Ohio State University, Columbus, Ohio 43210.

GUSTAFSON, DR. C(LOYD) V(ICTOR), b. Mar. 28, 97; m. 30. A.B, DePauw, 23; B.D, Garrett Biblical Inst, 28; M.A, Southern California, 40; Ph.D, Chicago, 56. Pres, Nat. Col. Christian Workers, 39-45; prof. sociol. & chmn. dept, Lewis & Clark Col, 47-65; part time instr, Portland State Col. & Linfield Col, 66-67; RETIRED. Sociol. Asn; Soc. Study Social Probs. Urban society; sociology of religion. Address: 5848 S.W. Texas St, Portland, Ore. 97219.

GUSTAFSON, DR. H(ERBERT) W(AYNE), b. Omaha, Nebr, July 5, 27; m. 54. SOCIOLOGY. B.A, Utah, 50, M.S, 51, Ph.D.(sociol), 55. Asst, bur. appl. soc. res, Columbia, 53-54; psychol, Utah, 55-56; res. psychologist, maintenance lab, Air Force Personnel & Training Res. Center, Colo, 56-58; personnel sub-syst. specialist, Air Force Ballistic Missile Div, Calif, 58; sr. res. scientist, Psychol. Res. Assocs, Inc, 58-60; asst. tech. dir. ed. sci. div, U.S. Industs, Inc, 60-63; consult, human factors & training, 63-64; staff assoc, inst. ed. tech, Teachers Col, Columbia, 64; MEM. TECH. STAFF, BELL TEL. LABS, MURRAY HILL, N.J, 64- Staff assoc, ment. health proj, West. Interstate Cmn. Higher Ed, 55-56. Statist. consult, Univ. Utah, 55-56. U.S.A, 45-47, 2nd Lt. AAAS; Psychol. Asn. Mathematical sociology; human factors engineering and training; automated teaching. Address: 3 Washington Square Village, New York, N.Y. 10012.

GUSTAFSON, DR. LAWRENCE, Physiol. Psychol, see 10th ed, Soc. & Behav. Vols, deceased.

GUSTAFSON, DR. L(EVARL) M(ERLE), b. Pulaski Co, Ind, July 13, 20; m. 44; c. 2. PSYCHOLOGY. Ph.D.(psychol), Illinois, 53. Asst, Illinois, 47-53; asst. prof. PSYCHOL, Okla. Agr. & Mech. Col, 53-60; assoc. prof, grad. col, Oklahoma, 60-63; ASST. PROF. PSYCHOL, CALIF. STATE COL. LOS ANGELES, 63- U.S.A, 43-46. Psychol. Asn. Human learning; experimental and clinical psychology. Publ: Co-auth, Reminiscence in bilateral transfer; Relationship of verbal communication to immediate and delayed retention and to acceptability of technical materials; Relationship of patterning to immediate retention and to acceptability of technical materials. Address: Dept. of Psychology, California State College, 5151 State College Dr, Los Angeles, Calif. 90032.

GUSTAFSON, DR. MONTY C(ARLTON), b. Minneapolis, Minn, Mar. 15, 28; m. 49; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, Nebr. State Teachers Col.(Wayne), 49; M.A, Nebraska, 50, Ed.D.(ed. psychol, measurements), 60. Instr. psychol, Sheridan Col, 56-60; asst. prof. Wyoming, 60-64; Vet. Admin. fel, clin. psychol, CENT. WYO. COUNSELING CENTER, 64-65, DIR, 65- Psychol. Asn; Personnel & Guid. Asn. Psychological measurement; prediction of academic achievement; interest variables as motivators of behavior; differential motivation; community mental health, behavior and group therapy. Publ: Relationships between scholastic aptitude scores and achievement of junior college freshmen, Jr. Col. J. Address: 3641 Carmel Dr, Casper, Wyo. 82601.

GUSTAFSON, DR. PAUL M(OODY), b. De Kalb, Ill, Oct. 11, 19. SOCIOLOGY. B.S, Northwestern, 46; Ph.D.(sociol), Minnesota, 64. Instr, North Dakota, 47-49; asst. prof. SOCIOL, Macalester Col, 49-64; ASSOC. PROF, HIRAM COL, 64- Sociol. Asn; Soc. Sci. Study Relig. Publ: Danish-American, In: One America; UO-US-PS-PO: a restatement of Troeltsch's church-sect typology, J. Sci. Study Relig, spring 67. Address: Dept. of Sociology, Box 184, Hiram College, Hiram, Ohio 44234.

GUSTAFSON, PROF. ROBERT L(LOYD), b. Norway, Mich, May 22, 20; m. 60; c. 1. ECONOMICS. B.S, Michigan, 41; Stein fel, Chicago, 49-50, univ. scholar, 50-51, A.M, 51, Ph.D, 58. Res. asst. econ, Chicago, 51-53, asst. prof, 54-58; instr, Northwestern, 53-54; assoc. prof, MICH. STATE, 59-67, PROF. AGR. ECON. & ECON, 67- U.S.N, 44-46, Lt.(jg). Econ. Asn; Statist. Asn; Economet. Soc; Agr. Econ. Asn. Econometrics; analytical methods in agricultural economics research. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

GUSTAFSON, DR. W(ILLIAM) ERIC, b. Pittsfield, Mass, Nov. 18, 33; m. 61. ECONOMICS. B.A, Williams Col, 55; A.M, Harvard, 57, Ph.D, 59. Economist, N.Y. Metrop. Region Study, 57-59; instr. ECON, univ. & res. assoc, grad. sch. pub. admin, Harvard, 59-63; res. adv, Pakistan Inst. Develop. Econ, 63-65; ASST. PROF, CALIFORNIA, DAVIS, 65- Econ. Asn. Publ: Co-auth, Made in New York: case studies in metropolitan manufacturing; Research and development, new products, and productivity change, Am. Econ. Rev. Address: Dept. of Economics, University of California, Davis, Calif. 95616.

GUSTAV, DR. ALICE, b. New York, N.Y, Jan. 2, 14; m. 43. PSYCHOLOGY. B.A, N.Y. Univ, 40, scholar, 40-41, M.A, 41, Ph.D.(psychol), 46; Columbia, 44-45; cert, William Alanson White Inst. Psychiat, 54. Intern. psychol, Worcester State Hosp, Mass, 41-42; asst. WASH. SQ. COL, N.Y. UNIV, 42-43, instr. PSYCHOL, 44-50, asst. prof, 50-60, ASSOC. PROF, 60-, STUDENT COUNSR, 44-55, 58- Consult. psychologist, rehab. bur, State Dept. Ed, N.Y, 42-44; voc. consult, soc. security admin. disability prog, U.S. Dept. Health, Ed. & Welfare, 62- Psychol. Asn; Personnel & Guid. Asn; N.Y. Acad. Sci; Interam. Soc. Psychol. Psychological tests and measurements; student counseling techniques; doctor-patient relationship. Address: Dept. of Psychology, New York University, New York, N.Y. 10003.

GUSTAVSON, PROF. CARL G(USTAV), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GUSTESON, PROF. RAYMOND H(ARRIS), b. Sioux City, Iowa, Sept. 19, 20. POLITICAL SCIENCE. A.B, Morningside Col, 42; A.M, Syracuse, 45, Ph.D, 51. Instr. polit. sci, Maxwell grad. sch. citizenship & pub. affairs, Syracuse, 46-47; asst. prof. GOVT, OHIO, 47-54, assoc. prof, 54-66, PROF, 66-, chmn. dept, 57-63. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Political parties; constitutional law; American national government. Publ: Challenge of politics; parties, politics and the Presidency. Address: Dept. of Government, Ohio University, Athens, Ohio 45701.

GUTEKUNST, PROF. JOSEF GRANT, b. Allentown, Pa, May 28, 17; m. 44; c. 2. EDUCATION, PSYCHOLOGY. B.S, Kutztown State Col, 41; M.A, Lehigh, 49; Ed.D, Temple, 59; Michigan, 60. Teacher, pub. schs, Pa, 41-42, 48-52; lithographer, U.S. Coast & Geod. Surv, 42-43; training facilities officer, Vet. Admin, 46-47; employer-adv, Pa. Dept. Pub. Instr, 47-48; assoc. prof. art. ed, KUTZTOWN STATE COL, 52-58, acting dir. sec. ed, 58-59, asst. to dean instr, 59-60, dir. grad. study & asst. to dean, 60-62, asst. dean acad. affairs, 62-65, dean undergrad. curricula, 65-67, PROF. ED. & PSYCHOL. & DEAN ACAD. AFFAIRS, 67- U.S.A.A.F, 43-46, S/Sgt. Psychol. Asn. Prediction of art achievement through standardized tests. Publ: The organization and administration of a guidance program for a four year junior high school, Lehigh Univ, 49; The prediction of art achievement of art education students by means of standardized tests, Temple Univ, 59. Address: Dept. of Education and Psychology, Kutztown State College, Kutztown, Pa. 19530.

GUTENBERG, DR. ARTHUR W(ILLIAM), b. Darmstadt, Germany, Nov. 10, 20; nat; m. 47; c. 5. BUSINESS ECONOMICS. B.A.S, California, 44, B.S, 46, M.B.A, 47, Standard Oil Co. of Calif. faculty fel, 53; Ph.D.(bus), Stanford, 55. Head econ. res. sect, Pac. Alaska div, Pan Am. Airways, 47-48; instr. bus, Fresno State Col, 48-51; asst. prof. econ. & dir. bur. bus. servs, Ariz. State Col, 51-60; ASSOC. PROF. MGT, GRAD. SCH. BUS. ADMIN, SOUTHERN CALIFORNIA, 60-, coordinator, Pakistan proj, 60-66. Consult, 51-62. Ed, Ariz. Bus. Bull. U.S.A, 42-45, Lt. Statist. Asn. Area development; industrial growth and industry analysis; management. Publ: Profitable studio management; Economics of the evaporative cooler industry in the American Southwest; co-auth, Dynamic business management, International, 3/68. Address: 1428 Santa Margarita, Arcadia, Calif. 91006.

GUTERMAN, DR. STANLEY S(ANFORD), b. Texarkana, Ark, Feb. 19, 34; m. 60; c. 2. SOCIOLOGY. A.B, Chicago, 56; Gottesberger fel, Nat. Inst. Ment. Health fels. & Ph.D.(sociol), Columbia, 67. ASST. PROF. SOCIOL, CARLETON (CAN), 65- Sociol. Asn. Personality and social structure. Publ: The Americanization of Norwegian immigrants, Sociol. & Soc. Res, 4/68. Address: Dept. of Sociology, Carleton University, Ottawa 1, Ont, Can.

GUTH, DR. SHERMAN LEON, Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

GUTHE, PROF. ALFRED K(IDDER), b. Detroit, Mich, Apr. 30, 20; m. 44; c. 6. ANTHROPOLOGY. B.A, Michigan, 41, Ph.D.(anthrop), 56; M.A, Chicago, 48. Jr. anthrop. curator, Rochester Mus. Arts & Scis, 49-56, curator anthrop, 56-61; PROF. ANTHROP. & CHMN. DEPT. & DIR. FRANK H. McCLUNG MUS, TENNESSEE, 61- Lectr, Rochester, 52-56. U.S.N, 42-45, Lt. Anthrop. Asn; Soc. Archaeol. Eastern United States archaeology and ethnology. Publ: The late prehistoric occupation of southwestern New York: an interpretive analysis, Rochester Mus. Arts & Sci. Res. Records; Cultural background of the Iroquois, In: Essays in the science of culture in honor of Leslie A. White. Address: Frank H. McClung Museum, University of Tennessee, Knoxville, Tenn. 37916.

GUTHE, DR. CARL E(UGEN), Anthrop, see 10th ed, Soc. & Behav. Vols.

GUTHE, DR. OTTO E(MMOR), b. Washington, D.C, Oct. 6, 04; m. 30; c. 1. GEOGRAPHY. A.B, Michigan, 27, M.A, 28, Ph.D.(geog), 33. Instr. geog, Michigan, 29-35; geog, land planning div, Tenn. Valley Authority, 35-37; soil conservationist, climat. & physiog. div, soil conserv. serv, U.S. Dept. Agr, 37-41; asst. chief div. geog. & cartog, U.S. Dept. State, 41-45, chief map intel. div, 46-47, geog. res, cent. intel. agency, 47-53, dir. res. & reports, 53-65; INDEPENDENT CONSULT, 66- Adv, UN Conf. Int. Orgn, San Francisco, 45, U.S. dep, Coun. For. Ministers, London & Paris, 46, U.S. cmnr, Cmn. Experts Invest. Italo-Yugoslav Boundary, Trieste, 46. V.chmn. div. geol. & geog, Nat. Res. Coun, 42-44; mem. cmt. geog. explor, Res. & Develop. Bd, 47-48, assoc. mem, cmt. geophys. & geog, 48; mem. U.S. Nat. Cmt, Int. Geog. Union, 47-55; v.chmn, U.S. Bd. Geog. Names, 51-53; chmn, U.S. Interagency Econ. Intel. Cmt, 53-65; Fulbright Adv. Selection Cmt, 54-56. U.S. Dept. State observer, Pan-Am. Consult. Cartog, Buenos Aires, 48, Cuidad Trujillo, 52, U.S. del, Rio de Janeiro, 44; Pan-Am. Consult, Geog, 49, Santiago, 50, Wash, D.C, 52; Nat. Res. Coun. del, Int. Geog. Cong, Lisbon, 49, Wash, D.C, 52. Asn. Am. Geog; Am. Geog. Soc. Administration of research; regional geographic and economic analysis. Address: 1707 34th St. N.W, Washington, D.C. 20007.

GUTHMANN, PROF. HARRY G(EORGE), b. East Syracuse, N.Y, Dec. 16, 96; m. 30. FINANCE. A.B, Syracuse, 17; M.B.A, N.Y. Univ, 21; Ph.D.(econ), Chicago, 29. Asst. prof. econ. & acct, Syracuse, 21-22; assoc. prof. bus. admin, Texas, 22-25; from asst. prof. to prof. FINANCE, NORTHWESTERN, 27-49, Morrison prof, 49-65, EMER. PROF, 65- Vis. prof, California, Berkeley, 50, 58, 65. Consult. finance & investments. Trustee, Teachers Ins. & Annuity Asn, 47-51. Econ. Asn; Finance Asn.(pres, 46). Investment finance. Publ: Auth, Analysis of financial statements, 53 & co-auth, Corporate financial policy, 62 & Investment principles and practices, 68, Prentice-Hall. Address: 718 Noyes St, Evanston, Ill. 60201.

GUTHRIE, PROF. GEORGE M(cRUER), b. Paris, Ont, Sept. 3, 24; nat; m. 49; c. 3. PSYCHOLOGY. B.A, Western Ontario, 46; Ph.D, Minnesota, 49. From assoc. prof. to PROF. PSYCHOL, PA. STATE, 49- Fulbright res. prof, Philippines, 59-60; sr. specialist, East-West Center, Honolulu, Hawaii, 66-67. Psychol. Asn. Clinical and social psychology; cross-cultural studies of personality. Publ: Co-auth, Child rearing and personality development in the Philippines, Pa. State Univ, 66; Common characteristic associated with frequent MMPI profile patterns, J. Clin. Psychol; Structure of abilities in a non-Western culture, J. Ed. Psychol, 63. Address: 4 Burrowes Bldg, Pennsylvania State University, University Park, Pa. 16802.

GUTHRIE, PROF. HAROLD W(OODSON), b. Detroit, Mich, July 8, 20; m. 45; c. 2. ECONOMICS. Ph.D.(econ), Michigan, 55. Study dir, surv. res. center, Michigan, 52-54; asst. prof. econ. & asst. dir, Cowles Found. Res. Econ, Yale, 54-58, 59-60; vis. prof, Univ. Wisconsin-Ford Found. Proj, Gadjah Mada Univ, Indonesia, 58-59; assoc. prof. ECON, Kentucky, 60-63; PROF, ILLINOIS, URBANA, 63- U.S.A.A.F, 43-45. Econ. Asn; Economet. Soc; Statist. Asn. Consumer behavior; econometrics. Publ: Statistical methods of economics, Irwin, 66; Consumer propensities to hold liquid assets, J. Am. Statist. Asn; Economic analysis of revenues from tourism. Address: Bureau of Economic & Business Research, 408 David Kinley Hall, University of Illinois, Urbana, Ill. 61801.

GUTHRIE, PROF. JOHN A(LEXANDER), b. Scotland, July 20, 07; nat; m. 38; c. 2. ECONOMICS. B.A, Manitoba, 29, A.M, Wisconsin, 32; Ph.D, Harvard, 39. PROF. ECON. & DIR. BUR. ECON. & BUS. RES, WASHINGTON STATE, 40- Charles Bullard forest res. fel, Harvard, 62-63. Econ. Asn; Regional Sci. Asn. Pulp and paper industry; regional economic analysis and price policy. Publ: Newsprint paper industry; Economics of pulp and paper; Western forest industry-an economic outlook. Address: Dept. of Economics, Washington State University, Pullman, Wash. 99163.

GUTHRIE, PROF. PETER M(ACDONALD), b. Seattle, Wash, Dec. 9, 26; m. 55; c. 2. EXPERIMENTAL PSYCHOLOGY. Sc.B, Washington (Seattle), 50; Sc.M, Brown, 53, Keen fel. & Ph.D.(psychol), 58. Vis. lectr. PSYCHOL, R.I. Col. Ed, 54; asst. prof, Col. of William & Mary, 55-59, assoc. prof, 59-60; CARLETON COL, 60-66, PROF, 66- Lectr, East State Hosp, Williamsburg, Va, 58; asst. prof, Washington (Seattle), 59; assoc. res. scientist, Am. Inst. Res, 60. U.S.A, 45-46. AAAS; Psychol. Asn. Avoidance learning in animals; human learning; problem solving. Address: Dept. of Psychology, Carleton College, Northfield, Minn. 55057.

GUTKIND, DR. PETER C. W, b. Berlin, Germany, Sept. 16, 25; m. 51; c. 4. ANTHROPOLOGY. B.A, Earlham Col, 50; M.A, Chicago, 52; Ph.D.(anthrop), Amsterdam, 63. Jr. res. fel. urban sociol, E.African Inst. Soc. Res, Kampala, Uganda, 53-55, sr. res. fel, 56-59; sr. staff tutor sociol. & soc. work, Univ. Col. of the West Indies, 59-60; asst. prof. sociol, Brandeis, 60-61; ASSOC. PROF, Inst. Soc. Studies, The Hague, 61-63; SOC. ANTHROP, McGILL, 63- Spec. consult, Bur. Soc. Affairs, UN, N.Y, 56. Fel. African Studies Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland, fel. Royal African Soc. Social anthropology; African studies; African urban studies; analysis of social change and modernization. Publ: Co-auth, Townsmen in the making: Kampala and its suburbs, E. African Studies, 9, E.African Inst. Soc. Res, 57; auth, The royal capital of Buganda, Mouton, The Hague, 63; co-ed, Anthropologists in the field, van Gorcum, Assen, 67. Address: Dept. of Sociology & Anthropology, McGill University, Montreal 2, Que, Can.

GUTMAN, DR. HERBERT GEORGE, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

GUTMAN, PROF. ROBERT, b. New York, N.Y, Aug. 3, 26; m. 50; c. 2. SOCIOLOGY. Soc. Sci. Res. Coun. fel, 52-54; Ph.D, Columbia, 55. Instr. SOCIOL, Dartmouth Col, 49-52, asst. prof, 54-57; assoc. prof, RUTGERS, 57-60, PROF, 60-, DIR. URBAN RES, 61- Lectr, seminar psychodyn, Columbia, 48-49; res. grants, Pop. Coun, 56-58, Soc. Sci. Res. Coun, 59-60, Russell Sage Found, 65-66 & Ed. Facilities Lab, 66-67; vis. prof, Stanford, 63-64; Bartlett Sch. Archit, London, 66. Sociol. Asn; Statist. Asn; Pop. Asn. Demography; urban and environmental sociology. Publ: Co-auth, The mark of oppression, Norton, 51; auth, Birth and death registration in Massachusetts, Milbank Mem. Fund, 60; Questions architects ask, Bartlett Soc. Transactions, 65-66. Address: 180 Jefferson Rd, Princeton, N.J. 08540.

GUTMANN, DR. DAVID LEO, b. New York, N.Y, Sept. 17, 25; m. 51; c. 2. CLINICAL & SOCIAL PSYCHOLOGY. Nat. Inst. Ment. Health fel. & M.A, Chicago, 56, Ph.D, 58. Res. assoc. soc. psychol, cmt. human develop, Chicago, 57-60; psychol, dept. psychiat, Harvard Med. Sch, 60-64, lectr. clin. psychol, dept. soc. rels, univ, 61-64; ASST. PROF. PSYCHOL, MICHIGAN, 64- Clin. instr, sch. med, Illinois, 59-60; fel, clin. psychol, psychosom. & psychiat. inst, Michael Reese Hosp, Chicago, Ill, 58-59; staff psychologist, Presby-St. Luke's Hosp, 59-60; Mass. Ment. Health Centers, Boston, 60-64. Consult, div. alcoholism, State of Ill, 58-60. Psychol. Asn. Projective techniques; culture and personality relationships; dimensions of psychological change in later life. Publ: Urban politics: grass roots level, Commentary; co-auth, Age sex role and personality in middle age: a thematic apperception study, Psychol. Monogr. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

GUTTENBERG, SAM, b. New York, N.Y, Dec. 10, 16; m. 50; c. 4. FOREST ECONOMICS. B.S.F, Michigan, 42; M.P.A, Harvard, 51. FOREST ECONOMIST, SOUTH. FOREST EXP. STA, FOREST SERV, U.S. DEPT. AGR, 46-U.S.A.A.F, 42-45. Soc. Foresters. Regional analyses of supply and demand for southern timber. Address: 5534 Pratt Dr, New Orleans, La. 70122.

GUTTENTAG, PROF. JACK M, b. Brooklyn, N.Y, Dec. 9, 23; m. 55; c. 2. ECONOMICS. B.S, Purdue, 48; M.S, Columbia, 49, Ph.D.(econ), 58. Mkt. analyst, Fed. Housing Admin, 52-54; economist, Fed. Reserve Bank N.Y, 54-61, chief, domestic res. div, 61-62; assoc. prof. FINANCE, PENNSYLVANIA, 62-67, PROF, 67- Consult, Cmn. Money & Credit, 59-60; Bur. Census, 60; Nat. Sci. Found, 65-; Comptroller of the Currency, 65- U.S.A, 43-46, Sgt. Econ. Asn; Finance Asn. Monetary theory and Federal Reserve policy; residential construction, mortgage finance and federal housing policy; commercial banking structure. Publ: Co-auth, Banking structure and performance, N.Y. Univ, 67; auth, Federal national mortgage association; The strategy of open market operations, Quart. J. Econ, 2/66. Address: 300 W. Sedgwick St, Philadelphia, Pa. 19119.

GUTTENTAG, DR. MARCIA, b. Brooklyn, N.Y, Nov. 9, 32; m. 55; c. 2. SOCIAL PSYCHOLOGY. B.A, Michigan, 53; Fulbright fel, Freiburg; Ph.D, Adelphi Col, 60. Intern psychol, Grasslands Hosp, 55-56; psychologist, Voc. Adv. Serv, 56-58; instr. psychol, QUEENS COL.(N.Y), 60-66, ASST. PROF. SOC. PSYCHOL, 66- Vis. fel, Yale, 65-66; mem. Fordham proj. urban ed, 67. AAAS; Psychol. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues; N.Y. Acad. Sci. Clinical and social psychological research; risk-taking; social psychology of organizations. Address: 23 Colony Lane, Rosyln Heights, N.Y. 11577.

GUTTMACHER, DR. MANFRED S(CHANFARBER), Psychiat, see 10th ed, Phys. & Biol. Vols, deceased 66.

GUTTMAN, PROF. IRWIN, Math. Statist, see 11th ed, Phys. & Biol. Vols.

GUTTMAN, PROF. LOUIS, b. New York, N.Y, Feb. 10, 16; m. 43; c. 3. SOCIAL PSYCHOLOGY. M.A, Minnesota, 39, Soc. Sci. Res. Coun. fel, 40, Ph.D. (sociol), 42. From instr. to assoc. prof. sociol. & statist, Cornell, 41-50; SCI. DIR, ISRAEL INST. APPL. SOC. RES, 48-; PROF. SOC. & PSYCHOL. MEASUREMENT, HEBREW UNIV, ISRAEL, 55- Soc. Sci. Res. Coun. fel, 47-48; Center Adv. Study Behav. Sci. fel, 55. Expert consult, secy. war, info. & ed. div, Army Serv. Forces, 41-45. Rothschild prize, 63. Fel. AAAS; Sociol. Asn; fel. Statist. Asn; Am. Psychol. Asn; fel. Inst. Math. Statist, Am. Asn. Pub. Opinion Res; Psychomet. Soc; Israel Psychol. Asn; World Asn. Pub. Opinion Res. Psychometrics; research methodology. Publ: Contrib, Mathematical thinking in the social sciences; co-auth, Prediction of personal adjustment & Measurement and prediction. Address: Israel Institute of Applied Social Research, 19 Washington St, Jerusalem, Israel.

GUTTMAN, DR. NEWMAN, Exp. Psychol, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

GUTTMAN, PROF. NORMAN, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

GUTTMAN, DR. SAMUEL ARNOLD, Psychiat, see 11th ed, Phys. & Biol. Vols.

GUY, DR. MARJORIE P, b. Dayton, Ohio, Dec. 18, 14; m. 44; c. 2. ECONOMICS. B.Sc, Ohio State, 37, scholar, 37-38, M.B.A, 38, fel, 38-39, Ph.D, 41. Asst. prof. econ, Bluffton Col, 39-41; statistician, state dept. welfare, Ohio, 41-42, state dept. health, 52-59, economist, state dept. econ. develop, 59-61; prof. econ, Webber Col, 42-46; statistician, Carlin & Carlin, 61-65; ASSOC. PROF. ECON, East Carolina, 65-67; STETSON, 67- Statist. Asn. Business organization; population estimates. Publ: Ohio population: growth and distribution. Address: School of Business, Stetson University, De Land, Fla. 32720.

GUYOL, NATHANIEL BOUTON, Geog, see 10th ed, Soc. & Behav. Vols.

GUYOT, DR. DOROTHY HESS, b. Chicago, Ill, Mar. 30, 37; m. 60; c. 3. POLITICAL SCIENCE. A.B.(lib. arts) & A.B.(polit. sci), Chicago, 57; London Sch. Econ, 57-58; fel, Yale, 58-59, M.A, 60, Ph.D.(int. rels), 66; Ford Found. fel, 59-63. Lectr. polit. sci, Calif. Inst. Tech, 64-66; ASST. PROF, San Fernando Valley State Col, 67-68; GOVT, COLUMBIA COL, COLUMBIA UNIV, 68- Asn. Asian Studies. Political mobilization in Burma; critique of government strategies to promote economic development in Malaysia. Publ: Co-auth, Southeast Asia in World War II, Yale, 66. Address: Columbia College, Columbia University, New York, N.Y. 10027.

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60-61; res. student pub. admin, U.S. Ed. Found. Burma, 61-63; ASST. PROF. POLIT. SCI, CALIFORNIA, LOS ANGELES, 63- Researcher, Human Ecol. Fund, 62; fel, Yale, 63; vis. scholar, Michigan, summer 65; part-time lectr, Univ. Malaya, 66-67; res. assoc, South. Asia Inst. & vis. lectr. pub. law & govt, Columbia, 68- Consult, Calif. Off. Admin. Procedure, 65. Chmn, polit. develop. seminar, Southeast Asia Develop. Adv. Group, Agency Int. Develop, 67- U.S.A.R, 57- Am. Polit. Sci. Asn; Am. Soc. Pub. Admin; Royal Asiatic Soc, Malaysian Br. Political behavior; international relations; psychological and sociological aspects of bureaucracy in various countries; Southeast Asian politics. Publ: Co-auth, Asian bureaucratic systems emergent from the British imperial tradition, Duke, 66. Government bureaucrats are different, Pub. Admin. Rev, 12/62; Urbanization and political development in Malaysia, Comp. Admin. Group. 67. Address: Dept. of Political Science, University of California, Los Angeles, Calif. 90024.

GUYTON, DR. PERCY L(OVE), b. Kosciusko, Miss, Sept. 29, 05; m. 30; c. 2. ECONOMICS. B.S, Miss. State, 27; M.B.A, Northwestern, 32; fel, Brookings Inst, 38-39; Ph.D, Duke, 52. Instr. hist. & econ, Miss. State, 28-29; asst. prof, 29-36; asst. econ, Duke, 36-38; assoc. prof. econ. & bus, Simpson Col, 39-43; dist. assoc. price exec, Off. Price Admin, Miss, 43-45; price specialist, southeast. region, Atlanta, Ga, 45; interim instr. econ, Northwestern, 45-46; prof. econ. & bus, King Col, 46-54; assoc. prof. econ, Memphis State, 54-58, prof, 58-60; economist & dir. mat. develop, Joint Coun. Econ. Ed, 60-66; PROF. ECON. & CHMN. DIV. BUS. ADMIN, JACKSONVILLE, 66-, DIR, CENTER ECON. ED, 66- Assoc. dir, Nat. Defense Fd. Act Inst. Econ. Nebraska, 67. Consult, res. projs, State Bank Jacksonville, Fla, 66; Duval County Taxpayers Asn, 66-67. Econ. Asn. Economic history and education; general theory; public finance; money and banking; labor economics. Publ: Our growing America (rev. filmstrip), 63 & co-auth, Suggestions for a basic economics library, 65, Joint Coun. Econ. Ed; co-auth. & ed, What everyone should know about the American economy and its problems, Channing L. Bete & Co, Inc, 65. Address: Division of Business Administration, Jacksonville University, N. University Blvd, Jacksonville, Fla. 32211.

GUZE, PROF. HENRY, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

GUZE, VIVIAN S(EGERMAN), b. New York, N.Y, May 23, 24; m. 45. PSYCHOLOGY. B.A, Brooklyn Col, 45. From clin. psychologist to prin. clin. psychologist, Essex County Overbrook Hosp, 49-65; DIR. ADULT GROUP THER, PLAINFIELD CONSULTATION CENTER, 63- Private practice, 62-; mem. exec. bd, Workshop Inst. for Living-Learning, 66- AAAS; Psychol. Asn; Sociol. Asn; Asn. Ment. Deficiency; Acad. Psychother; Group Psychother. Asn. Effects of suggestion on behavior; diagnostic procedures in psychopathology; body image. Publ: Co-auth, Relationship of androgens and estrogens to certain aspects of sexual behavior, Int. J. Sexology. Address: 66 Sunset Ave, Montclair, N.J. 07042.

GUZMAN, DR. LOUIS E(NRIQUE), b. Los Angeles, Calif, Oct. 29, 20; m. 42; c. 2. GEOGRAPHY. B.A, California, Los Angeles, 49, M.A, 51; Ph.D, Chicago, 56. Land use specialist, Inst. Inter-Am. Affairs, U.S. Mission to Panama, 53-58, agr. prog. officer, Int. Coop. Admin, 58-59; assoc. prof. geog, San Fernando Valley State Col, 59-66; cultural geogr, INTER-AM. GEOD. SURV, NAT. RESOURCES DIV, Ft. Clayton, C.Z, 66-67, AREA DEVELOP. ADV, U.S. AGENCY INT. DEVELOP, BRAZIL, 67- Cor. U.S. mem. cmt. basic natural resources, cmn. geog, Pan-Am. Inst. Geog. & Hist, 65-69. U.S.N, 42-46. Asn. Am. Geog. Agricultural systems and practices in Latin America; pre-Hispanic agricultural methods; role and procedures of agriculture in a developing economy. Publ: Farming and farmlands in Panama; Geographic regions of Panama; co-auth, Agriculture and soils in Cocle. Address: U.S. Agency for International Development, Rio de Janeiro, Brazil ARDO, APO New York 09676.

GWALTNEY, DR. HENRY O(LIVER), JR, b. Norfolk, Va, May 17, 31; m. 55. PSYCHOLOGY. B.S, Virginia, 55; M.S, Col. William & Mary, 57; M.Ed, Missouri, 57, Ed.D.(counseling psychol), 59. Counseling psychologist, State Hosp, Fulton, Mo, 57-58; dir. res. projs, Rehab. Inst, Kansas City, Mo, 58-60; asst. prof. psychol. depts. psychol. & occup. & environ. med. & coordinator rehab. res, Marquette, 60-62; psychol. consult, Rohrer, Hibler & Replogle, Wis, 62-65; clin. & counseling psychologist, Vet. Admin. Hosp, Richmond, Va, 65-66; chief clin. psychologist, U.S. Pub. Health Serv, Petersburg, Va, 66-67; ASSOC. PROF. PSYCHOL, RICHMOND, 67- Counsr. & practicum suprv, univ. counseling bur, Missouri, 57-58; adj. prof, Richmond Prfnl. Inst, Va, 65-67; private practice, 67- U.S.M.C, 48-51. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn. Personality theory and assessment; counseling and psychotherapy; administration of professional service and research programs. Address: 1114 West Ave, Richmond, Va. 23220.

GWINN, DR. GORDON T(ROWBRIDGE), b. Bronxville, N.Y, Dec. 1, 12; m. 39. PSYCHOLOGY. B.A, Arizona, 42; Ph.D.(psychol), Yale, 48. Instr. psychol, Wesleyan, 47-49; asst. prof, Clark, 49-54, assoc. prof, 54-65; RETIRED. Psychol. Asn. Learning; motivation; thinking. Address: 6835 N. La Canada Dr. N, Tucson, Ariz. 85704.

GWYN, PROF. WILLIAM B(RENT), b. Baltimore, Md, Oct. 10, 27; m. 56; c. 2. POLITICAL SCIENCE. B.A, Virginia, 50, M.A, 52, Du Pont fel, 52-54; Marshall scholar, London, 54-56, Ph.D, 56. Asst. prof. POLIT. SCI, Tennessee, 56-57; Bucknell, 57-66; ASSOC. PROF, TULANE, 66- U.S.A, 45-47. Polit. Sci. Asn. Financial aspects of politics, especially in the United Kingdom, including cost of elections and salaries for governmental personnel. Publ: Democracy and the cost of politics in Britain. Address: Dept. of Political Science, Tulane University, New Orleans, La. 70118.

GWYNN, DR. WILLIAM F(REDERICK), b. Atlanta, Ga, Apr. 9, 34; m. 53. CLINICAL PSYCHOLOGY. A.B, Tennessee, 56, Ph.D, 62. Psychol. trainee, Vet. Admin. Hosp, Gulfport, Miss, 57, trainee & intern, Salisbury, N.C, 58-59; clin. psychologist, Knoxville Cerebral Palsy Center, Tenn, 60; asst. prof. clin. psychol, Ft. Hays Kans. State Col, 60-63, assoc. prof. psychol, 63-66, clin. psychologist, psychol. serv. center, 60-62, dir, 62-66; clin. psychologist, HIGH PLAINS MENT. HEALTH CLIN, 66-67, CHIEF PSYCHOLOGIST, 67- Psychol. Asn. Behavior modification; community mental health education; use of non-professionals in mental health work. Address: High Plains Mental Health Clinic, 201 E. Seventh St, Hays, Kans. 67601.

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GYMAN, DR. HARRY, b. Philadelphia, Pa, Dec. 12, 26; m. 57; c. 2. SOCIOLOGY. A.B, Temple, 50; Ph.D.(sociol), Washington (St. Louis), 67. ASST. PROF. SOCIOL, State Univ. N.Y. Binghamton, 64-67; BOWLING GREEN STATE, 67- U.S.A, 45-46. Sociol. Asn. Interpersonal exchanges, especially the normative aspect of exchanges; conceptual analyses of the terms exchange and norms. Publ: Co-auth, Interaction of social class and deviant behavior, Am. Sociol. Rev, 62. Address: Dept. of Sociology, Bowling Green State University, Bowling Green, Ohio 43402.

GYNTHER, PROF. MALCOLM D(ONALD), b. Portland, Ore, Mar. 16, 27; m. 54; c. 4. PSYCHOLOGY. B.A, Stanford, 50, M.A, 51; Ph.D.(psychol), Duke, 56. Vet. Admin. clin. psychol. trainee, Duke, 53-56; asst. prof. psychol, South Carolina, 56-60; med. psychol, sch. med, Washington (St. Louis), 60-66; PROF. PSYCHOL, ST. LOUIS, 66- Clin. psychologist, S.C. State Hosp, 56-60; dir. psychol. servs, hosp. div, City of St. Louis, 60-66. Consult, Vet. Admin. Hosps. & Malcolm Bliss Ment. Health Center, 66- Dipl. Am. Bd. Exam. Prfnl. Psychol, 62. U.S.N.R, 45-46. Psychol. Asn. Personality assessment; test validation; relation between attitudes and behavior; graduate training of clinical psychologists. Publ: Co-auth, Age and MMPI performance, J. Consult. Psychol, 66, Schizophrenic responses to the proverbs test, J. Abnorm. Psychol, 67 & ECT-chlorpromazine and chlorpromazine compared in the treatment of schizophrenia, J. Nervous Ment. Disorders, 67. Address: Dept. of Psychology, St. Louis University, St. Louis, Mo. 63103.

GYORGY, PROF. ANDREW, b. Budapest, Hungary, Feb. 1, 17; nat; m; c. 2. POLITICAL SCIENCE. A.B, Budapest, 37, J.D, 38; M.A, California, 39; Ph.D, California, Los Angeles, 43. Instr. polit. geog, California, 43-44; asst. prof. polit. sci, New Hampshire, 46; Yale, 46-50; assoc. prof, Boston, 52-55, prof, 55-65; vis. prof. govt, Arizona, 65-66; PROF. INT. AFFAIRS, GEORGE WASHINGTON, 66- Res. assoc, Mass. Inst. Tech, 51-53. Consult, Naval War Col, 55-; U.S. Armed Forces Staff Col, 58- U.S.A, 44-45. Polit. Sci. Asn. Eastern Europe; Soviet government and foreign policy; international relations. Publ: Geopolitics: the new German science; Communism in perspective, Allyn & Bacon, 64; Ideologies in world affairs, Blaisdell, 67. Address: Institute for Sino-Soviet Studies, George Washington University, Washington, D.C. 20006.

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HAAG, PROF. HERMAN M(ARTIN), b. Poplar Bluff, Mo, June 19, 03; m. 33; c. 3. AGRICULTURAL ECONOMICS. B.S, Missouri, 30; Ph.D.(agr. econ), Cornell, 33. Asst. agr. econ, Cornell, 30-33; asst. dir. info, Farm Credit Admin, 33-36; asst. prof. agr. econ. & mkt. prices, Missouri, 36-38, assoc. prof, 38-45; dir. res, Mo. Farmers Asn, 45-57; adv. agr. ed. & develop, Ford Found, Burma, 57-59; PROF. AGR. ECON, SOUTHERN ILLINOIS, 59-, vis. prof, 58-59, acting dean sch. agr, 60-62. Grant. for study mkt. of grains, Yaqui Valley, Sonora, Mex, 63-65; Ford Found. travel & study grant, 65-66. Am. Agr. Econ. Asn; Can. Agr. Econ. Soc; Int. Asn. Agr. Econ. Economic policy affecting agriculture; marketing of farm products; farm policy, marketing and prices, especially problems of marketing of farm products in Mexico. Publ: El Mercadeo de los productos agropecuarios, privately pub, 61; co-auth. An analysis of weekly unloads of fruits and vegetables in Chicago, May 59-62, Pub. No. 20, 6/63 & Marketing of grains and other farm products in the Yaqui Valley, Sonora, Mexico, Pub. No. 21, 8/65, Southern Illinois Univ. Address: School of Agriculture. 226 Agriculture Bldg, Southern Illinois University. Carbondale. Ill. 62901.

HAAG, PROF. WILLIAM G(EORGE), b. Henderson, Ky, Aug. 15, 10; m. 37; c. 4. ANTHROPOLOGY. B.S, Kentucky, 32, M.S, 33; Ph.D.(ethnozool), Michigan, 48. Jr. archaeologist, Tenn. Valley Authority, 34, 36-37; asst. geol, Michigan, 35-36; curator, mus. anthrop, Kentucky, 37-49, asst. prof. ANTHROP, 38-49; assoc. prof, Mississippi, 49-52; LA. STATE, 52-55, PROF, 55- Asst. mammal, Michigan, 41-42. Sig.C, 42-45, 1st Lt. AAAS: fel. Anthrop. Asn; Soc. Am. Archaeol. Archaeology and ethnozoology of southeastern United States. Publ: Osteometric analysis of some aboriginal dogs, Anthrop. Reports, Univ. Kentucky; Early horizons of the southeast, Am. Antiquities; Prehistory of the Mississippi, J. Miss. Hist. Address: Dept. of Geography & Anthropology, Louisiana State University, Baton Rouge, La. 70803.

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HAAK, PROF. LEO A(RTHUR), b. Tipton, Iowa, Oct. 31, 03; m. 30; c. 2. SOCIOLOGY, SOCIAL SCIENCE. A.B, Cornell Col, 26, hon. Ed.D, 58; A.M, Iowa, 28; Ph.D, Harvard, 38. Lectr. sociol. & econ, McMaster, 34-38; asst. prof. sociol, Tulsa, 38-40, head dept, 38-44; assoc. prof, 40-43, prof, 43-44; prof. effective living & head dept, MICH. STATE, 44-53, PROF. SOC. SCI, 53- Exec. secy, Tulsa Coun. Soc. Agencies, 40-44. Consult. & res. analyst, Mich. Communications Study, 53-56. Sociol. Asn. Educational sociology; community organization; public opinion. Publ: Basic values and human relationships. Address: Dept. of Social Science, Michigan State University, East Lansing, Mich. 48823.

HAAKENSON, DR. ROBERT H(OWARD), b. Luverne, Minn, May 25, 20; m. 44; c. 3. BUSINESS COMMUNICATION. B.A, Augustana Col.(S.Dak), 42; M.A, Iowa, 48, Ph.D.(speech, broadcasting), 52. From instr. to asst. prof. speech,

Temple, 48-54; asst. prof, Missouri, 54-56; assoc. prof. & head dept, Minnesota, Duluth, 56-60; mgr. community ed, SMITH KLINE & FRENCH LABS, 60-62, COMMUNITY REL. MGR, 62- Mem. exec. cmt, bd. dirs, Pub. Affairs Coun, 66-67; nat. community adv. panel, U.S. Chamber of Commerce, 67. U.S.N.R, 42-, Lt. Comdr. Speech Asn; Soc. Study Commun. Public affairs council government and industry affairs. Publ: Public speaking in public relations, Pa. Speech Ann; Improving oral communication, Chem. Eng; A privately supported route to rehabilitation; Am. Inst. Archit. J. Address: Smith Kline & French Labs, 1500 Spring Garden St, Philadelphia, Pa. 19101.

HAALAND, DR. GORDON A, b. Brooklyn, N.Y, Apr. 19, 40; m. 63; c. 1. PSYCHOLOGY, SOCIAL PSYCHOLOGY. A.B, Wheaton Col.(Ill), 62; Ph.D.(psychol), State Univ. N.Y. Buffalo, 66. ASST. PROF. PSYCHOL, NEW HAMPSHIRE, 65-, ASST. CHMN. DEPT, 67- Psychol. Asn. Social influence, conformity and leadership; social reinforcement and elementary social behavior; information seeking in social behavior. Publ: Co-auth, Conformity and prior group support, 12/65 & Resistance to persuasive communications, spring 68, J. Personality & Soc. Psychol; auth, Information seeking behavior and sources of influence in conformity, Behav. Sci, spring 68. Address: Dept. of Psychology, University of New Hampshire, Durham, N.H. 03824.

HAAS, PROF. ERNST BERNARD, b. Frankfurt, Germany, Mar. 31, 24; nat; m. 45; c. 1. POLITICAL SCIENCE. B.S, Columbia, 48, M.A, 50, Ph.D.(polit. sci), 52; fel, Chicago, 50-51. Instr. POLIT. SCI, CALIFORNIA, BERKELEY, 51-53, asst. prof, 53-58, assoc. prof, 58-62, PROF, 62-, assoc. dir, inst. int. studies, 65-68, res. grant, 65-70. Res. grants, Soc. Sci. Res. Coun, 55-65, Rockefeller Found, 56-63. Consult. & Adv, U.S. Dept. State, 63- Mem. Cmn. Study Orgn. Peace, 60-; cmt. int. orgn, Soc. Sci. Res. Coun, 63- Mil. Intel, U.S.A, 43-46. Polit. Sci. Asn; Acad. Arts & Sci. International and comparative politics, especially the relationship between domestic political forms and international politics; impact of international organizations on national forms and beliefs; science, technology and planning in international relations. Publ: Uniting of Europe; co-auth, Dynamics of international relations; auth, Beyond the nation-state, Stanford Univ, 64. Address: Dept. of Political Science, University of California, Berkeley, Calif. 94720.

HAAS, PROF. GARLAND A(UGUST), b. Evansville, Ind, May 9, 19; m. 44; c. 2. POLITICAL SCIENCE. B.S, Indiana, 46, M.A, 48, fel, Washington (Seattle), 54, Ph.D.(polit. sci), 58. Instr. bus. & govt, Riverside Col, 48-52; asst. prof. polit. sci, East. Wash. Col, 52-54; asst, Washington (Seattle), 54-56, proj. dir. health servs. surv, dept. polit. sci, inst. pub. affairs, 56-58; prof. POLIT. SCI, Gordon Col, W.Pakistan, 58-61; assoc. prof, WHITWORTH COL, 61-63, PROF, 63-, acting dean faculty, 65-66. U.S.N, 40-42. State and local government; public administration; American government and politics; political theory. Address: W. 812 Westover Rd, Spokane, Wash. 99218.

HAAS, DR. HAROLD I(RWIN), b. Buffalo, N.Y, Sept. 26, 25; m. 52; c. 3. PSYCHOLOGY. B.A, Concordia Theol. Sem, 46, B.D, 49; M.A, Washington (St. Louis), 49; fel, Buffalo, 53-54, Ph.D.(psychol), 56. Instr. psychol, Buffalo, 54-56; pastor, Faith Lutheran Church, 56-57; asst. prof. PSYCHOL, CONCORDIA SR. COL, 57-59, assoc. prof, 59-66, PROF, 67-, dean students, 60-62. U.S. Pub. Health Serv. fel, 63-64. Consult, Bd. Higher Ed, Lutheran Church. Psychol. Asn; Personnel & Guid. Asn. Psychological investigation of learning processes and personality formation; clinical diagnosis, treatment and research. Publ: Mental illness, Concordia, 66. Address: Dept. of Psychology, Concordia Senior College, Ft. Wayne, Ind. 46805.

HAAS, PROF. J(OHN) EUGENE, b. Lancaster, Pa, Oct. 25, 26; m. 48; c. 2. SOCIOLOGY. A.B, Upland Col, 50; M.A, California, Los Angeles, 53; fel, Minnesota, 56-57, Ph.D, 57. Asst. prof. sociol, Upland Col, 52-54; instr, Minnesota, 56-57; asst. prof, Ohio State, 57-61, assoc. prof, 61-66, prof, 66-67, exec. dir, personnel res. bd, 61-63, dir, behav. sci. lab, 63-67, co-dir, disaster res. center, 63-67; PROF. SOCIOL, COLORADO, 67- Summer, vis. prof, Columbia, 61. Mem. geog. panel, cmt. Alaska earthquake, Nat. Acad. Sci, 64-; disaster relief cmt, Nat. Citizens Cmn. Int. Coop, 65; task group human dimensions atmosphere, Nat. Sci. Found, 66-67; cmt. adv. environ. sci. serv. admin, Nat. Acad. Sci-Nat. Acad. Eng, 67- With Civilian Pub. Serv, 43-46. Fel. Sociol. Asn. Sociology of complex organizations; analysis of small groups; sociology of disasters; socio-economic aspects of environmental problems. Publ: Role conception and group consensus, Ohio State Univ, 64; co-auth, Toward an empirically derived taxonomy of organizations, In: Studies on behavior in organizations, 66; co-auth, Organizational size, complexity and formalization, Am. Sociol. Rev, 67. Address: Dept. of Sociology, University of Colorado, Boulder, Colo. 80302.

HAAS, PROF. KENNETH B, Mkt, see 10th ed, Soc. & Behav. Vols.

HAAS, PROF. KURT, b. Sept. 18, 31; nat; m. 57; c. 1. CLINICAL PSYCHOLOGY. B.S, Brooklyn Col, 53; M.S, Pa. State, 55, U.S. Pub. Health Serv. fel, 56, Ph.D. (psychol), 60. Counsr, Pa. State, 57-58; asst. prof. PSYCHOL, Bowling Green State, 58-62; PROF. & CHMN. DEPT, STATE UNIV. N.Y. COL. NEW PALTZ, 62- Consult, Child Study Inst, 59; Fulton County Bd. Ed, 59; Wood County Ment. Health Clin, 62; Ulster County Ment. Health Clin, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn. Verbal learning and conditioning; educational devices and techniques and related motivational and incentive variables; industrial and related motivational and incentive variables: industrial and related motivational and incentive variables; industrial and consumer application of research. Publ: Understanding ourselves and others, Prentice-Hall, 65; Some personality correlates of verbal conditioning, J. Psychol; Verbal conditioning of affective responses, J. Genetic Psychol. Address: Dept. of Psychology, State University of New York College at New Paltz, New Paltz, N.Y. 12561.

HAAS, PROF. MARY R(OSAMOND), Ling, see 5th ed, Dir. Am. Scholars, Vol. III. For. Lang, Ling. & Philol.

HAAS, DR. MICHAEL, b. Detroit, Mich, Mar. 26, 38. POLITICAL SCIENCE. B.A, Stanford, 59, Ford fel, 60-63, Ph.D.(polit. sci), 64; Falk fel, Yale, 59-60, M.A, 60. Lectr. POLIT. SCI, San Jose State Col, 63-64; asst. prof, HAWAII, 64-67, ASSOC. PROF, 67-, res. assoc, Soc. Sci. Res. Inst, 65. Nat. Sci. Found. summer training grant, 65; Hawaiian Elec. Co. develop. grant & Biomed. Sci. grant, 66-68. Polit. Sci. Asn. Development of the field of international relations into a theoretical science, coupling general systems theory with multivariate analysis. Publ: Co-auth, Approaches to the study of political science, Chandler Pub, 68; auth, International conflict, Bobbs, 69; Statistical and quantitative methods, Northwestern Univ, 69. Address: Dept. of Political Science, 2550 Campus Rd, University of Hawaii, Honolulu, Hawaii 96822.

HAAS, DR. RAYMOND M(ICHAEL), b. Bordentown, N.J, Feb. 13, 35; m. 59; c. 4. MARKETING, BUSINESS ADMINISTRATION. B.S, Rider Col, 56; M.B.A, Lehigh, 58; D.B.A,(mkt), Indiana, 61. Asst. MKT, Lehigh, 56-58; teaching assoc, Indiana, 58-60, res. assoc, 60-61; asst. prof, WEST VIRGINIA, 61-65, ASSOC. PROF, 65-, ASST. DEAN & DIR. GRAD. PROG. BUS. ADMIN, 67- Am. Coun. Ed. intern acad. admin, Duke, 66-67. Air Nat. Guard, 53-61, Sgt. Mkt. Asn. Long-range new product planning for business; market analysis; tourism studies. Publ: Principles of marketing, a correspondence study course; Long-range new product planning in business, W.Va. Lib, 65; ed, Science, technology and marketing, Am. Mkt. Asn, 66. Address: College of Commerce, West Virginia University, Morgantown, W.Va. 26506.

HAAS, DR. WALTER ALEXANDER, Psychol, see 10th ed, Soc. & Behav. Vols.

HAAS, DR. WARD J(OHN), Biochem, see 11th ed, Phys. & Biol. Vols.

HABBE, DR. STEPHEN, b. Indianapolis, Ind, Aug. 13, 03; m. 38; c. 4. PSYCHOLOGY. Ph.D.(psychol), Columbia, 36. Psychologist, U.S. Pub. Health Serv, 41-43; res. assoc, Life Ins. Agency Mgt. Asn, 43-47; SR. RES. SPECIALIST, NAT. INDUST. CONF. BD, 47- Dipl, Am. Bd. Exam. Prfnl. Psychol. Selection of employees; appraisal of employees; employee attitude surveys. Publ: Employment of college graduates; Appraisal of job performance; Communicating with employees. Address: National Industrial Conference Board, 460 Park Ave, New York, N.Y. 10022.

HABENSTEIN, PROF. ROBERT W(ESLEY), b. Cleveland, Ohio, Dec. 16, 14; m. 42; c. 3. SOCIOLOGY. A.B, & B.S, Bowling Green State, 41; M.A, Chicago, 49, Ph.D.(sociol), 54. Lectr. SOCIOL, Indiana, 48-49; instr, MISSOURI, 50-54, asst. prof, 55-58, assoc. prof, 58-63, PROF, 64- Ed, Sociol. Quart, 69. U.S.A, 41-45. Sociol. Asn; Soc. Study Social Probs. Sociological theory; occupations and professions; marriage and the family. Publ: Co-auth, History of American funeral directing; co-auth, Professionalizer, traditionalizer, utilizer; co-auth, Family in various cultures. Address: Dept. of Sociology, University of Missouri, Columbia, Mo. 65201.

HABER, DR. AUDREY, b. New York, N.Y, Feb. 4, 40. PSYCHOLOGY. A.B, Adelphi, 60, U.S. Pub. Health Serv. fel, 61-63, Ph.D.(exp. psychol), 63. Instr. & sr. res. assoc. psychiat, N.Y. Med. Col, 63-64; asst. prof. PSYCHOL, C.W. POST COL, LONG ISLAND, 64-67, ASSOC. PROF, 67- Lectr, Hunter Col. & mem. grad. faculty, Adelphi, 64-65; res. assoc, dept. pediat, L.I. Jewish Hosp, 64-66. Consult, N.Y. State Dept. Ed, 64-; ed. clin, Hunter Col, 67- AAAS; Psychol. Asn. Statistics; research design; learning theory; child development. Publ: Co-auth, Fundamentals of behavioral statistics, 67, General statistics, 69 & Readings in statistics, 69, Addison-Wesley. Address: Dept. of Psychology, C.W. Post College, Long Island University, Greenvale, N.Y. 11548.

HABER, DR. LEONARD, b. New York, N.Y, Mar. 21, 33; m. 64; c. 2. CLINICAL PSYCHOLOGY. A.B, City Col. New York, 54, M.S, 56; Ph.D.(clin. psychol), Adelphi, 60. Res. asst. psychol, N.Y. State Psychiat. Inst, 55-56; trainee clin. psychol, Vet. Admin. Hosps, Northport & Bronx, 57-60, supvr, Bronx, 60-63; instr. psychol, Hunter Col, 63-64; secy, N.Y. State Bd. Exam. Psychologists, 64-65; DIR. PSYCHOL. SERV, PSYCHOL. ASSOCS. MIAMI, 65- Consult, Nat. Parkinson Found. & Dodge Mem. Hosp, 66-; S.Fla. State Hosp, 67- Chmn, legal issues cmt, Am. Asn. State Psychol. Bd, 65-66. Psychol. Asn; Rehab. Asn. Psychotherapy; group and child psychology. Publ: Article 153, N.Y. State Psychologist, 2-4-6/65; co-auth, Status maintenance in communications from dyads with high and low interpersonal comparability, J. Personality & Soc. Psychol, 6/65. Address: Psychological Associates of Miami, 326 N.E. 26th St, Miami, Fla. 33137.

HABER, PROF. RALPH NORMAN, b. Lansing, Mich, May 15, 32; m. 61. PSYCHOLOGY. B.A, Michigan, 53; Ford Found. fel, Wesleyan, 53-54, M.A, 54; Ph.D.(psychol), Stanford, 57. Res. psychologist, Stanford Res. Inst, 56-57; instr. PSYCHOL, San Francisco State Col, 57-58; asst. prof, Yale, 58-64; assoc. prof, ROCHESTER, 64-67, PROF. & CHMN. DEPT, 67- Res. assoc. inst. commun. res, Stanford, 57-58. AAAS; Psychol. Asn; Psychonomic Soc. Visual perception; information processing; recognition processes. Publ: Current research on motivation, 66 & Contemporary theory and research in visual perception, 68, Holt. Address: Dept. of Psychology, University of Rochester, Rochester, N.Y. 14627.

HABER, DR. SHELDON (EDWARD), b. New York, N.Y, Nov. 26, 32; m. 55; c. 2. ECONOMICS, STATISTICS. A.B, City Col. New York, 54; Rockefeller fel, Hopkins, 57-58, Ph.D.(labor econ), 58. Economist, Rand Corp, 58-59, consult, 59; res. scientist, LOGISTICS RES. PROJ, GEORGE WASHINGTON, 59-60, sr. scientist, 60-67, DEP. PRIN. INVESTR, 67-, ASSOC. PROF. LECTR, UNIV, 65-, lectr, 61-65. Econ. Asn. Economic theory; labor economics; economics of growth; military supply logistics. Publ: Co-auth, A polaris logistics model, Naval Res. Logistics Quart, 12/64; co-auth, Military essentiality of naval aviation repair parts, Mgt. Sci, 4/67; auth, A comparison of usage data among different types of aircraft, Naval Res. Logistics Quart, 9/67. Address: 10202 Leslie St, Silver Spring, Md. 20902.

HABER, PROF. WILLIAM, b. Rumania, Mar. 6, 99. LABOR ECONOMICS, INDUSTRIAL RELATIONS. A.B, Wisconsin, 23, A.M, 25, Ph.D, 27; fel, Harvard, 25-26; L.H.D, Hebrew Union Col, 61. Assoc. prof. indust. rels, Mich. State Col, 27-35; PROF. ECON, MICHIGAN, 35-, chmn. dept, 62-63, dean col. lit, sci. & arts, 63-68, adv. exec. officers, 68-69. State emergency relief adminstr, Mich, 33-36; state dir. Nat. Youth Authority, 36-37; dept. dir, Works Progress Admin, 36-37; exec. dir, Nat. Refugee Serv, 39-41; spec. asst. to dir. budget, D.C, 41-42; dir. planning, War Manpower Cmn, 42-44; pres, Am. ORT Fedn, 50-, pres. cent. bd, World ORT Union, 55- Adv. to dir, Off.

War Mobilization & Reconversion, 44-45; spec. adv. to comdr-in-chief, Germany & high cmnr, Austria, 48; consult, U.S. Secy. Labor, D.C, 50. Chmn, State Soc. Security Study Cmt, Mich, 39-42; cmt. soc. security, Soc. Sci. Res. Coun, 41-42; Fed. Adv. Coun. Employ. Security, 47-56; citizens adv. cmt, State Legis. Cmt. Govt. Reorgn, Mich, 50-; mem. Pub. Adv. Cmt. Area Redevelop, 61. Statist. Asn; Econ. Asn; Soc. Pub. Admin; Indust. Rels. Res. Asn.(pres, 60); Acad. Arbit. Social security and insurance; unemployment and old age security; labor and industrial relations. Publ: Co-auth, Michigan in the 1970's; an economic forecast, 64; ed, Labor in a changing America, 66; co-auth, Unemployment insurance in the American economy, 66. Address: College of Literature, Science and the Arts, 1017 Angell Hall, University of Michigan, Ann Arbor, Mich. 48104.

HABER, DR. WILLIAM B, b. New York, N.Y, Nov. 27, 06; m. 29. CLINICAL PSYCHOLOGY. B.A, City Col. New York, 47; M.A, N.Y. Univ, 53, Ph.D. (clin. psychol), 54. Staff supvr, Mt. Sinai Hosp, New York, 52-56; chief psychologist, Hosp. Joint Diseases, 52-57; panel psychologist, Jewish Child Care, 55-56; supv. psychologist, div. voc. rehab, State Dept. Ed, N.Y, 56-58; instr, N.Y. Univ, 55-57. Private practice, 50- Consult, Nat. Amputation Found, N.Y, 53- AAAS; Psychol. Asn; Soc. Proj. Tech; Acad. Psychother. Sensory deprivation. Publ: Observations on phantom limb phenomena, Arch. Neurol. & Psychiat; Reaction to loss of limb, physiological and psychological aspects, Ann. N.Y. Acad. Sci; contrib, New international year book, Funk, 53-66. Address: Apt. 30-E, 185 E. 85th St, New York, N.Y. 10028.

HABERER, DR. JOHN F(REDERICK), b. Zurich, Ont, Dec. 15, 33; m. 60. ECONOMICS. B.A, Western Ontario, 56; fel, Duke, 56-59, Ph.D.(econ), 60. Econ. analyst, New Eng. Mutual Life Ins. Co, 59-63; ECONOMIST, INT. BUS. MACH. CO. LTD, 63- Lectr, Boston, 62-63; Toronto, 67. Econ. Asn; Asn. Bus. Econ. International economics; statistics and econometrics; business conditions. Address: 285 St. Leonard's Ave, Toronto 12, Ont, Can.

HABERER, DR. JOSEPH, b. Villingen, Germany, Jan. 31, 29; U.S. citizen; m. 60; c. 2. POLITICAL SCIENCE. B.A, San Francisco State Col, 50; M.A, Columbia, 54; Newhouse Found grant, California, Berkeley, 61-63, univ. fel, 63-65, Ph.D, 65. Mem. staff, WQXR, New York Times, 52-56; Dept. Welfare, New York, 56-57; Dept. Welfare, San Francisco, 58-60; instr. POLIT. SCI, California, 65-66; ASST. PROF, RUTGERS, 66- Res. Coun. grant, 67-68. AAAS; Polit. Sci. Asn. Science and its impact on and relationship to the political process, government and public policy making, modernization and the underdeveloped nations, and futuribles. Publ: Politics and the community of science, Am. Behav. Scientist, 5/67. Address: Dept. of Political Science, Rutgers, The State University, New Brunswick, N.J. 08903.

HABERLAND, DR. JOHN ANDREW, b. Chicago, Ill, Apr. 16, 18. CLINICAL PSYCHOLOGY. A.B, Hope Col, 48; M.A, Northwestern, 49, Ph.D, 56. Asst. prof, Colo. State Col, 57-58; Arizona, 58-61; clin. psychologist, Rancho Los Amegos Hosp, 61-65; PSYCHIAT. UNIT, ORANGE COUNTY MED. CENTER, 65-67, CHIEF PSYCHOLOGIST, 67- Clin. instr. med. psychol, Calif. Col. Med. & California, Irvine, 66- U.S.A.A.F, 43-46. Psychol. Asn. Publ: School and society, J. Ed. Res. Address: 1881 E. Mitchell, Apt. 1-D, Santa Ana, Calif. 92705.

HABERLER, PROF. GOTTFRIED, Econ, see 10th ed, Soc. & Behav. Vols,

HABERSTROH, PROF. CHADWICK J(OHN), b. Livingston, Mont, July 19, 27; m. 59. MANAGEMENT SCIENCE. B.A, Minnesota, 48, Ph.D, 58; M.A, Columbia, 50; fel, Carnegie Inst. Tech, 54-57. Teacher, pub. schs, Mont, 48-49; labor economist admin, wage & hour & pub. contracts divs, U.S. Dept. Labor, 50-52; instr. econ, Minnesota, 53-54; asst. prof. indust. mgt, Mass. Inst. Tech, 57-62; prof. mgt, col. bus. admin, Denver, 62-65; assoc. prof. econ, Case, 65-67; PROF. BUS. ADMIN. & POLIT. SCI, WISCONSIN, MILWAUKEE, 67- Fulbright lectr, Cuenca, Ecuador, 59; expert, bur. tech. asst. opers, UN, Argentina, 61; Fulbright researcher, Barcelona, Spain, 65-66. Participant, Conf. Tax Admin, Argentina, 61. U.S.N.R, 45-46. AAAS; Econ. Asn; Sociol. Asn; Soc. Appl. Anthrop; Soc. Gen. Systs. Res; Inst. Mgt. Sci. Organization theory; behavioral science and organizations, including human relations, control processes, institutional structure and interaction with the economic, social and political environment. Publ: Co-auth, Some theories of organization, Irwin, 66; auth, Administration of safety in the steel industry, Mgt. Sci; Organization design and system analysis, In: Handbook of organizations, Rand McNally, 65. Address: School of Business Administration, University of Wisconsin, Milwaukee, Wis. 53201.

HABIB, NATHAN, b. New York, N.Y, Feb. 11, 15; m. 42; c. 2. ECONOMICS, GEOGRAPHY. B.S.S, City Col. New York, 36, M.S, 38. Chief prog. officer, Works Prog. Admin, 37-42; econ. intel, U.S. Bd. Econ. Warfare, 42-43; port analyst & economist, U.S. Maritime Cmn, 43-45; economist & statistician, U.S. Bur. Census, 45-52; chief economist, Econ. Coop. Admin. & Mutual Security Agency, 52-53; economist & mgt. analyst, Nathan Habib & Assocs, 53-54; securities, Am. Financial & Develop. Corp, 55; financier & invest. analyst, Whitney & Co, 55; financial consult, Arthur M. Krensky, 56-61; CHIEF ECONOMIST, NATHAN HABIB ASSOCS, 61- Lectr, Nat. Inst. Pub. Affairs on Housing. Pres, Pyramid Develop. Corp; Foremost Develop. Corp. Statist. Asn. Economic development; finance; foreign trade; real estate investments. Address: 11106 Easecrest Dr, Wheaton, Md. 20902.

HABIBY, DR. RAYMOND N, b. Cairo, Egypt, Nov. 11, 21. POLITICAL SCIENCE. B.A, American Univ. Beirut, 41; law dipl, Jerusalem Law Sch, 46; M.P.A, Minnesota, 63, Ph.D.(int. rels), 65. Attorney at law, 46-48; polit. analyst, Am. Embassy, Cairo, 50-61; asst. prof. POLIT. SCI, OKLA. STATE, 65-67, ASSOC. PROF, 67- Sub-ed, Egyptian Gazette, 48-57. Polit. Sci. Asn; Soc. Pub. Admin; Middle East Inst. International institutions and communications and Middle East politics and administration. Address: Dept. of Political Science, Oklahoma State University, Stillwater, Okla. 74074.

HABLUTZEL, DR. PHILIP NORMAN, b. Flagstaff, Ariz, Aug, 23, 35. POLITICAL SCIENCE, LAW. B.A, La. State, 58; Rotary Found. fel, Heidelberg, 59-60, law, 62-64; A.M, Chicago, 61, J.D, 67. Dep. dir, Great Lakes region, legal serv. prog, U.S. Off. Econ. Opportunity, summer 66, acting dir, 67; RES. ATTORNEY, AM. BAR FOUND, 67-; ASST. PROF. POLIT. SCI, CHICAGO CITY COL, FENGER CAMPUS, 68- Consult, spec. cmt. housing & urban develop. law & standing cmt. commerce, Am. Bar Asn, 68- Polit. Sci. Asn. Law reform and modernization in developing countries. Address: 5637 S. Kenwood Ave, Chicago, Ill. 60637.

HACK, GEORGE D(ONALD), b. Chicago, Ill, Sept. 17, 26; m. 55; c. 4. GEOGRAPHY, ECONOMICS. B.S, Eastern Illinois, 49; Chicago, 50; M.S, Illinois, 51. Res. assoc. meteorol. div, State Water Surv, Ill, 51-53; asst, State Div. Resources & Develop, Mo, 53-55; asst. dir. water invest, State Geol. Surv, Fla, 55-56, admin. asst, State Develop. Cmn, 57-59; res. analyst, State Div. Commerce & Indust. Develop, Mo, 59-63; location consult, Fantus Co, 63-66; economist, Off. State & Regional Planning & Community Develop, 66-67, RESOURCE COORDINATOR, 67; DEPT. COMMUNITY AFFAIRS, 67- Asn. Am. Geog; Econ. Asn; Inst. Planners. Location economics, especially industrial; comprehensive state and regional planning utilizing planning-programming-budgeting system and task force approach; economic development of smaller communities. Publ: Missouri economic growth, 61 & Industrial location in the rural areas of Missouri, 62, Mo. Div. Commerce & Indust. Develop; Economic development study of Pulaski County (Little Rock) Arkansas, Fantus Co, 67. Address: Dept. of Community Affairs, Jefferson Bldg, Jefferson City, Mo. 65101.

HACKENBERG, DR. ROBERT A, b. Fargo, N.Dak, Mar. 12, 28; m. 63; c. 1. ANTHROPOLOGY. B.A, Minnesota, 50, M.A, 51; Rockefeller Found. fel, Cornell, 51-53, Ph.D, 61. Res. assoc, Arizona, 53-54, instr. anthrop, 54-66, asst. dir. bur. ethnic res, 58-66; ASSOC. PROF. ANTHROP, COLORADO, 66- Fel. Anthrop. Asn. Anthropological theory, method, demographic studies; problems of political and economic change in underdeveloped areas; Southeast Asian studies. Publ: Culture and history in the future of the Mekong Basin; Economic and political change among the Gila River Pima Indians; Indian administration and social change. Publ: An anthropological study of demographic transition: the Papago information system; The parameters of an ethnic group; A method for studying the total tribe. Address: Institute of Behavioral Science, University of Colorado, Boulder, Colo. 80302.

HACKER, PROF. ANDREW, b. New York, N.Y, Aug. 30, 29; m. 55; c. 1. POLITICAL SCIENCE. A.B, Amherst Col, 51; B.A, Oxford, 53; Soc. Sci. Res. Coun. fel, Michigan, 54-55; Ph.D.(polit), Princeton, 55. Instr. GOVT, CORNELL, 55-56, asst. prof. 56-61, assoc. prof, 61-66, PROF, 66- Vis. prof, Salzburg Sem. Am. Studies, Austria, 60. Consult, Fund for Repub, Inc, 58-59; Brookings Inst, 62-64; Rockefeller Bros. Fund, 63-64; Attorney-Gen. of State of N.Y, 64-65; Dept. Health, Ed. & Welfare, 67- Polit. Sci. Asn; Soc. Polit. & Legal Philos. American politics; political sociology. Publ: Congressional districting, Brookings, 2nd ed, 64; The study of politics, McGraw, 63; Political theory: philosophy, ideology, Science. Address: Dept. of Government, Cornell University, Ithaca, N.Y. 14850.

HACKER, PROF. LOUIS M(ORTON), b. New York, N.Y, Mar. 17, 99; m. 21; 53; c. 2. ECONOMICS. A.B, Columbia, 22, A.M, 23; M.A, Oxford, 48, fel, 48-49; LL.D, Hawaii, 53. Asst. ed, New Int. Encyclop, 23-25, 28-29; Encyclop. Soc. Sci, 32-34; lectr. ECON, COLUMBIA, 35-42, asst. prof, 42-44, assoc. prof, 44-48, prof, 48-67, EMER. PROF, 67-, dir. sch. gen. studies, 49-52, dean, 52-58. Lectr, New Sch. Soc. Res, 40, 43-48; Am. Inst. Banking, 40-43; Harmsworth prof, Queen's Col, Oxford, 48-49; Guggenheim fel, 48, 59; lectr, Cambridge, 52; Army War Col, 52-54, 58, 61; distinguished vis. prof, Pa. State, 59-60; Bode Mem. lectr, Ohio State, 60; vis. distinguished prof, Fairleigh Dickinson, 67- Ed, Mod. World Series; Am. Econ. Hist. Series. Exec. secy, Acad. Freedom Proj. U.S.A, 18. Econ. Asn; Hist. Asn; Econ. Hist. Asn; Soc. Hist. Publ: Shaping of American tradition, Columbia, 47; Triumph of American capitalism, Simon & Schuster, 40 & Columbia, 47; World of Andrew Carnegie, 1865-1901, Lippincott, 68. Address: 430 W. 116th St, New York, N.Y. 10027.

HACKER, DR. WALTER R(UDOLF), Geog, see 11th ed, Phys. & Biol. Vols.

HACKETT, DR. CHARLES W(ILSON), JR, b. Austin, Tex, Oct. 26, 21; m. 53; c. 2. FINANCE, ECONOMICS. B.A, Texas, Austin, 42, M.B.A, 48; D.B.A. (indust. mgt), Washington (Seattle), 55. Mgt. eng, Gulf Oil Corp, 48-50; instr. prod, Washington (Seattle), 50-55; asst. prof. bus. orgn, Ohio State, 55-56; credit mgr, U.S. Steel Corp, 56-66; ASST. PROF. FINANCE, TEXAS, AUSTIN, 66- U.S.A.A.F, 44-46. Finance Asn; Acad. Mgt; Econ. Asn. Investment portfolio management; government and business; security analysis; business finance. Publ: A techno-fundamental portfolio management simulation with computer applications, Univ. Texas, 67. Address: Dept. of Finance, University of Texas, Austin, Tex. 78712.

HACKETT, DR. CLARENCE G(ORDON), b. Walworth Co, Wis, Feb. 8, 13; m. 46; c. 4. PSYCHOLOGY. Ph.D.(psychol), Purdue, 50. CHIEF PSYCHOLOGIST, Upper Miami Valley Guid. Center, Ohio, 50-54; EL PASO GUID. CENTER, 54- Instr, Texas, El Paso, 54- Fel. Psychol. Asn; fel, Orthopsychiat. Asn; Acad. Relig. & Ment. Health. Psychology of parent-child relationships; clinical psychology. Publ: Study of parent-child relationships; Let's listen to youth. Address: 1501 N. Mesa St, El Paso, Tex. 79902.

HACKETT, DR. EDWARD V(INCENT), b. Cape Girardeau, Mo, Feb. 19, 28; m. 60; c. 3. PSYCHOLOGICAL MEASUREMENT. B.S, St. Louis, 52, M.S, 54; Purdue, 54-56; Ph.D.(psychol), Washington (St. Louis), 67. Instr. indust. psychol, St. Louis, 56-60, counsr, 57-60; res. psychologist, Off. Naval Res. Contract, Washington (St. Louis), 60-62; asst. prof. psychol, Memphis State, 62-67, dir. testing & guid. center, 63-66; ASSOC. PROF, BUR. ED. RES, KENT STATE, 67- Counsr, Vet. Admin. Guid. Center, 57-60. U.S.N, 46-47. Psychol. Asn; Ed. Res. Asn. Industrial psychology, especially training methods; developing learning tests in the analysis of gains in learning technical skills; multivariate correlational techniques; personality research. Publ: Co-ed, Conference on over- and underachievement. Address: 1994 Hastings Dr, Kent, Ohio 44240.

HACKETT, DR. JOHN THOMAS, b. Ft. Wayne, Ind, Oct. 10, 32; m. 54; c. 3. ECONOMICS. B.S, Indiana, 54, M.B.A, 58; Ph.D, Ohio State, 61. Instr. finance, Ohio State, 58-61; economist, Fed. Reserve Bank Cleveland, 61-64;

dir. long range planning, CUMMINS ENGINE CO, INC, 64-65, V.PRES. FINANCE, 65- Mem. adv. bd. int. finance, Int. Chamber Commerce. U.S.A, 54-56, 1st Lt. Econ. Asn; Finance Asn. Banking; monetary theory and policy; related areas of financial economics. Address: Cummins Engine Co, Inc, 432 Washington St, Columbus, Ind. 47201.

HACKMAN, DR. J(OHN) RICHARD, b. Joliet, Ill, June 14, 40; m. 62; c. 1. PSYCHOLOGY. A.B, MacMurray Col, 62; M.A, Illinois, 65, Ph.D.(psychol), 66. ASST. PROF. ADMIN. SCI. & PSYCHOL, YALE, 66- Consult, tri-col. study student persistence, U.S. Off. Ed, 64-67. Psychol. Asn. Social psychology, including study of task and situational effects on individuals and small groups; research methods; administrative psychology. Publ: Co-auth, A set of dimensions for describing the general properties of group generated written passages, Psychol. Bull, 67 & The strength, relevance and source of beliefs about object in Fishbein's attitude theory, J. Soc. Psychol, 68; auth, Effects of task characteristics on group products, J. Exp. Soc. Psychol, 68. Address: 2 Hillhouse Ave, Yale University, New Haven, Conn. 06520.

HACKMAN, PROF. JOSEPH P(HILIP), b. Poland, Oct. 5, 08. ECONOMICS. Ph.B, Chicago, 31, A.M, 38. Dean, Austin Eve. Jr. Col, 37-41; regional training officer, Off. Price Admin, 41-44; dir. res, Aldens Mail Order Co, Ill, 45; assoc. prof. ECON, ROOSEVELT, 45-67, PROF, 67-, CHMN. DEPT, 65- Econ. Asn; Indust. Rels. Res. Asn; Acad. Polit. & Soc. Sci. Labor economics and legislation; fair labor standards act; junior college adult education. Address: Dept. of Economics, Roosevelt University, Chicago, Ill. 60605.

HACKMAN, DR. RAY C(ARTER), b. Kansas City, Mo, July 15, 13; m. 43; c. 2. PSYCHOLOGY. B.A, Nebraska, 35, M.A, 36; Ph.D.(psychol), Minnesota, 40. Instr. psychol, Maryland, 40-42, asst. prof, 46-48, from assoc. prof. to prof, 48-57; v.pres, Psychol. Res. Assocs, 57-58; RES. DIR, PSYCHOL. SERV. OF PITTSBURGH, 58- Lectr, Duquesne, 60- Assoc. cryptanalyst, U.S. Navy Dept, 42-43, consult, 46-48; psychologist, Naval Med. Res. Inst, 50-56. Mem. cmt. field testing, adv. bd. mil. personnel supplies, Nat. Res. Coun, 62- Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. U.S.N.R, 43-46. Psychol. Asn; fel. Biomet. Soc. Attitude measurement; vocational selection; motivation. Address: Psychological Service of Pittsburgh, 233 Oliver Ave, Pittsburgh, Pa. 15222.

HACKMAN, PROF. ROY B(AMFORD), b. Hastings, Nebr, Nov. 9, 08; m. 33; c. 2. PSYCHOLOGY. A.B, Nebraska, 33, M.A, 34; Ph.D.(psychol), Minnesota, 38. Lab. asst. PSYCHOL, Nebraska, 33-35; asst, Minnesota, 35-38; instr, TEMPLE, 38-41, assoc. prof, 46-50, PROF, 50-; PA. COL. OPTOM, 48- Res. consult, Minneapolis Adult Ed. Dept, 35-38; chmn. dept, Pa. Area Cols, 47-48; consult. psychologist, United Cerebral Palsy, 55- U.S.N, 42-45, Comdr. Fel. Psychol. Asn; Personnel & Guid. Asn. Vocational and personnel psychology; clinical psychology; human relations; measurement of vocational interests and their relationships with personality and values. Publ: Co-auth, Hackman-Gaither vocational interest inventory, Palmer Assoc. Inc, 64; auth, The problem of vocational choice in vocational guidance, Macmillan, 65; Counseling adolescents, Allyn & Bacon, 67. Address: Dept. of Psychology, Temple University, Philadelphia, Pa. 19122.

HADAR, DR. JOSEF, b. Potsdam, Germany, Mar. 6, 23. ECONOMICS. B.A, Washington State, 57; Earhart fel, Minnesota, 59, univ. fel, 60, Ford Found. fel, 61, Ph.D.(econ), 62. Asst. prof. ECON, Mich. State, 62-65; ASSOC. PROF, CASE WESTERN RESERVE, 65- Brit. Army, 42-46; Israel Defense Forces, 48-55, Capt. Econ. Asn; Economet. Soc. Various aspects of microeconomic theory, particularly those arising under conditions of imperfect competition; optimality and stability properties. Publ: Elementary theory of economic behavior, Addison-Wesley, 66; Comparative statics of stock-flow equilibrium, J. Polit. Econ, 65; Stability of oligopoly with product differentiation, Rev. Econ. Studies, 66. Address: Dept. of Economics, Case Western Reserve University, Cleveland, Ohio 44106.

HADCOCK, PROF. EDITHA, Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

HADDAD, DR. RAEF K(URT), Psychol, see 11th ed, Phys. & Biol. Vols.

HADDAN, DR. EUGENE E, b. Greencastle, Ind, Mar. 31, 18; m. 43, 65; c. 5. EDUCATIONAL PSYCHOLOGY. B.A. & fel, N.Tex. State Col, 58, M.A, 60; Ed.D.(ed. psychol), North Texas State, 66. Radio operator, East. Airlines, 43-48; broadcast engr, KRLD AM-FM-TV, Tex, 48-63; res. assoc. ed. res, Univ. Michigan, 63-65; ASST. PROF. ED. PSYCHOL, EASTERN MICHIGAN, 65- U.S. Dept. Health, Ed. & Welfare res. grant. U.S.A, 37-40. Ed. Res. Asn. Effect of emotions on cognitive learning. Publ: Co-auth, Systematic application of psychology, Macmillan, 64; auth, The man-machine and the library, Teaching Aids News, 11/64. Address: Dept. of Psychology, Eastern Michigan University, Ypsilanti, Mich. 48197.

HADDEN, DR. SAMUEL (BERNARD), b. Dunmore, Pa, May 19, 00; m. 24; c. 3. NEUROPSYCHIATRY. M.D, Pennsylvania, 24. Intern & asst. chief res. physician, Phila. Gen. Hosp, 24-26; asst. neurologist, Presby Hosp, 26-36, chief neuropsychiat. serv, 36-67; RETIRED. Asst. instr. neurol, sch. med, Pennsylvania, 26-30, instr, 30-33, assoc, 37-41, assoc. prof. psychiat, 55-67; asst. prof, sch. med, Temple, 35-36, prof, 36-37; instr, Woman's Med. Col, Phila. Vis. consult. & attend. neurologist & psychiatrist, hosps, 26-; asst. vis. neurologist, Phila. Gen. Hosp, 26-32, vis. neurologist, 37-44, vis. psychiatrist, 32-37, 44-47, consult. psychiatrist, 47-, dir. group psychotherapy, 50-52; civilian consult, Surgeon Gen, U.S. Dept. Army, 47- 4th Earl D. Bond award, Ment. Health Asn, 67. U.S.A, 18; U.S.N.R, 35-39, Lt. Comdr. Fel. Neurol. Asn. (asst. secy, 47, past pres); fel. Psychiat. Asn; Am. Med. Asn; fel. Group Psychother. Asn.(past pres); fel. Col. Physicians; World Fedn. Ment. Health. Utilization of group psychotherapy in emotionally disturbed states, especially in the treatment of homosexuality. Publ: Treatment of male homosexuals in groups, Int. J. Group Psychother, 1/66; Male homosexuality, Pa. Med, 2/67; Group psychotherapy in homosexuality, Psychiat. Opinion, 67. Address: 135 S. 19th St, Suite 504, Philadelphia, Pa. 19103.

HADDOX, PROF. BENJAMIN EDWARD, b. Orlando, Fla, Dec. 11, 23; m. 42; c. 3. SOCIOLOGY. A.B, Stetson, 45; B.D, South. Baptist Theol. Sem, 50; M.A, Florida, 60, U.S.Steel Found. fel, 60-62, Ph.D.(sociol. of Latin Am), 62. Asst. prof. SOCIOL, Miss. State, 62-64; Stetson, 64-66; PROF. & HEAD DEPT, BUTLER, 66- Miss. rep, Regional Tech. Cmt. Study of Low-Income Rural Families in South, 62-64. AAAS; Sociol. Asn. Sociology of Latin American area, especially social organization; sociology of the family; population and urban sociology. Publ: Sociedad y Religión en Colombia, Bogotá: Ediciones Tercer Mundo & Facultad de Sociologia Universidad Nacional, 65; Joint decision-making patterns and related factors among low-income rural families, South. Coop. Series Bull. 109, 12/65. Address: Dept. of Sociology, Butler University, Indianapolis, Ind. 46208.

HADLEIGH-WEST, PROF. FREDERICK, b. Atlanta, Ga, Mar. 15, 28; m. 50; c. 3. ANTHROPOLOGY, ANTHROPOGEOGRAPHY. B.A, Tulane, 51; M.A, La. State, 56, Ph.D, 63. Asst. geog, La. State, 55-57; assoc. prof. anthrop, geog. & ed, Anthrop. Papers, Univ. Alaska, 57-65; vis. lectr, Wisconsin, Madison, 65-66; ASSOC. PROF. ANTHROP, ALASKA METHODIST, 66- Summer instr, La. State, 57. Ed, Studies of North. Peoples, 61-65. U.S.M.C.R, 45-46. AAAS (secy. Alaska div, 64-65); Soc. Am. Archaeol; Arctic Inst. N.Am; Geog. Soc. E.Pakistan. Ecology of hunting peoples, especially in arctic and subarctic regions; North American prehistory, particularly early phases; human biology and evolution. Address: Lab. of Anthropology, Alaska Methodist University, Anchorage, Alaska 99504.

HADLEY, DR. ELEANOR M(ARTHA), b. Seattle, Wash, July 17, 16. ECONOMICS. B.A, Mills Col, 38; fel, Radcliffe Col, 41-43; M.A, 43, Ph.D.(econ), 49. Mem. staff President Truman's Cmn. Migratory Labor, 50-51; Senate Cmt. Labor & Pub. Welfare, 51-52; Wash. rep, Nat. Consumers League, 53; Am. Asn. Soc. Workers, 53-55, Nat. Asn. Soc. Workers, 55-56; vis. lectr, Smith Col, 56-57, assoc. prof. econ, bus. orgn, govt. & bus, prob. econ. security, underdevelop. areas & mod. Japan econ, 57-65, dean class, 62; ECONOMIST, U.S. TARIFF CMN, 67- Fulbright res. scholar, Japan, 62-63; Asia Found. grant, 64. Econ. Asn; Asn. Asian Studies. Far Eastern economics, especially industrial organization: migratory agricultural labor; social security. Publ: Antitrust in Japan, Princeton, (in press); Housing for migratory workers while on the job; Japan: competition or private collectivism?, Far East. Surv. Address: 4200 Cathedral Ave, N.W, Washington, D.C. 20016.

HADLEY, PROF. GEORGE F(RANCIS), Physics, see 11th ed, Phys. & Biol. Vols.

HADLEY, PROF. JOHN M(ILLARD), b. Alton, Kans, Apr. 5, 15; m. 39; c. 2. CLINICAL PSYCHOLOGY. A.B, Ft. Hays Kans. State Col, 37, M.A, 38; Ph.D.(psychol), Iowa, 39. Asst. prof. psychol. & speech, Utah State Agr. Col, 39-43; asst. chief psychol, human eng. sect, spec. devices center, Off. Naval Res, N.Y, 46; assoc. prof. PSYCHOL, PURDUE, 46-49, PROF, 49-, DIR. PSYCHOL. CLINS. & GRAD. TRAINING IN CLIN. & COUNSELING PSYCHOL, 47-, interim head dept. psychol, univ, 64-68. Consult, Vet. Admin, 47- Mem. ment. health grants to community prog. cmt, Nat. Inst. Ment. Health, 63-67, chmn, 65-67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 53. U.S.N.R, 43-46, Lt. Fel. Psychol. Asn. Behavior disorders; counseling and therapy; the exceptional child; training of non-professional mental health workers; community mental health. Publ: Clinical and counseling psychology. Address: Dept. of Psychology, Purdue University, West Lafayette, Ind. 47907.

HADLEY, DR. LOREN S, b. Clinton Co, Ohio, Mar. 5, 00; m. 23; c. 2. PSYCHOLOGY. A.B, Wilmington Col, 21; M.A, Ohio State, 38, Ph.D.(ed. personnel), 41. Supv. prin, Ohio, 25-28, 32-38; secy. & camp dir, YMCA, Ohio, 29-32; lectr, Govt. Sch. Recreational Leaders, 39-40; asst. prof. psychol. & ed, Whittier Col, 40-42; prof. ed. & head dept, Wilmington Col, 42-43; asst. prof. psychol, Ohio State, 43-45; dir. univ. testing serv, Bucknell, 45-48; student adv, Kent State, 48-58; sch. psychologist, Orange Co, 58-65; RETIRED. Teacher, Rollins Col. Consult. U.S.M.C, 18. Patterns of adult recreation; techniques of effective study; effects of testing and counseling on performance in college. Address: Route 1, Box 169, Mt. Dora, Fla. 32757.

HADLEY, PROF. S(AMUEL) TREVOR, b. Punxsutawney, Pa, July 27, 16; m; c. 5. PSYCHOLOGY. B.S, Pa. State Teachers Col, 37; M.Ed, Pittsburgh, 41, Ed.D.(psychol), 52. PROF. PSYCHOL, INDIANA UNIV. PA, 46-, DEAN STUDENTS, 55-, ed, Annual Res. Bull, dir. psycho-ed. bur, 46-55. Psychol. Asn; Nat. Soc. Study Ed. Group dynamics; personality and aptitude testing. Address: 490 Ben Franklin Rd, Indiana, Pa. 15701.

HADSEL, DR. FRED L(ATIMER), b. Oxford, Ohio, Mar. 11, 16. INTERNATIONAL POLITICS. A.B, Miami (Ohio), 37; A.M, Clark, 38; Freiburg, 38; Ph.D, Chicago, 42. Instr. hist. & polit. sci, Rutgers, 46; mem. staff, U.S. DEPT. STATE, 46-49, int. affairs officer, Bur. German Affairs, 49-51, Bur. Near East, S.Asian & African Affairs, 52-54, dept. dir, Off. African Affairs, 55-56, dir, Off. South. African Affairs, 56, secy, Am. Embassy, London, Eng, 57-61, dep. chief mission, Addis Ababa, 61-62, DIR. OFF. INTER-AFRICAN AFFAIRS, 62- Lectr, George Washington, 46-57, 62-; asst. tech. secy. U.S. delegation, Coun. For. Ministers, 49; tech. secy. & documents officer, For. Ministers Meeting, 50. U.S.A, 44-46. International organization; propaganda in the funnies; specialized agencies of the United Nations; international relations; African affairs. Address: Bureau of African Affairs, U.S. Dept. of State, 2201 C St. N.W, Washington, D.C. 20520.

HADWIGER, DR. DON FRANK, b. San Bernardino, Calif, Apr. 3, 30; m. 53; c. 4. POLITICAL SCIENCE. B.A, Oklahoma, 53; M.A, Nebraska, 54; Ph.D, Iowa, 56. ASSOC. PROF. polit. sci, Southwest Mo. State Col, 56-66; GOVT, IOWA STATE, 66- U.S.A, 50-52. Polit. Sci. Asn.(Congressional fel, 58-59). Agricultural policy. Publ: Co-auth, Pressures and protests, Chandler Pub, 65; Effects of declining agricultural force, Farm Policy Forum; Political aspects of changes in the farm labor force, In: Labor mobility and population in agriculture. Address: Dept. of Government, Iowa State University, Ames, Iowa 50010.

HADY, DR. THOMAS FRANK, b. Brookings, S.Dak, Apr. 30, 33; m. 59; c. 2. ECONOMICS. B.A, Minnesota, 55, Ford Found. fel, 58-59, Ph.D.(econ), 61. Instr. econ, Minnesota, 56-58, 59-60; economist, farm taxation & rural govt. group, ECON. RES. SERV, U.S. DEPT. AGR, 62-64, group leader, 64-65, CHIEF COMMUNITY FACILITIES BR, 65- Faculty mem, U.S. Dept. Agr. Grad. Sch, 64- U.S.A.F, 60-62, Res, 55-63, Capt. Econ. Asn; Agr. Econ. Asn. Public finance, especially state and local government services, finances and organization; rural housing; capital and credit. Publ: The incidence of the personal property tax, Nat. Tax J, 12/62; co-auth, Congressional townships as incorporated municipalities, Midwest J. Polit. Sci, 11/64 & Taxation of farmland on the rural-urban fringe, Monogr, U.S. Dept. Agr, 9/67. Address: Economic Development Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

HAEFNER, DR. DON P(AUL), b. Albany, N.Y, Mar. 7, 28; m. 51; c. 3. PSYCHOLOGY. A.B, Clark, 51; Ph.D, Rochester, 56. Asst. soc. psychol, Rochester, 51-55; trainee psychol, Vet. Admin. Center, Bath, N.Y, 55-56, chief soc. psychologist, 56-57; res. soc. psychologist, Vet. Admin. Hosp, Brockton, Mass, 57-60; res. psychologist, div. hosp. & med. facilities, U.S. Pub. Health Serv, 60-62; res. assoc.& lectr. PUB. HEALTH ADMIN, SCH. PUB. HEALTH, MICHIGAN, 62-65, ASSOC. PROF, 65- Vis. instr. & res. assoc, Rochester, 56-57; lectr. & assoc, Boston, 58-60. U.S.A, 46-47, Sgt. Psychol. Asn. Attitude formation and change; motivational determinants of social behavior; factors affecting health behavior. Publ: Co-auth, Some effects of situational threat on group behavior, J. Abnorm. & Soc. Psychol, 7/54; auth, Physicians' attitudes toward chemotherapy as a factor in psychiatric patients' responses to medication, J.Nerv.& Ment. Disease, 7/60; Arousing fear in dental health education, J. Pub. Health Dent, fall 65. Address: 1221 Wines Dr, Ann Arbor, Mich. 48103.

HAEFNER, PROF. JOHN H(ENRY), b. Muscatine, Iowa, Aug. 13, 13; m. 41; c. 5. SOCIAL STUDIES. A.B, Iowa, 35, A.M, 39, Ph.D, 42. Teacher, pub. schs, Iowa, 35-36; instr. soc. studies & acting head dept, univ. high sch, IOWA, 36-42, asst. prof. hist, UNIV, 45-50, assoc. prof. SOC. STUDIES ED, 50-54, PROF, 54-, HEAD DEPT, 50- Ford Found. faculty fel, 54-55; assoc. teacher, CBS Col. of the Air, 63-64. Consult, U.S. Dept. War, Germany, 47; ed. consult, Am. Newspaper Publishers Asn, 65- V.pres, Nat. Coun. Soc. Studies, 51, pres, 53; midwest regional rep, Joint. Coun. Econ. Ed, 66- U.S.N, 42-45. Ed. Res. Asn; Nat. Ed. Asn. The American west; methods of instruction and secondary curriculum in social studies. Publ: Co-auth, Our living government, Scott, 60. Address: University High School, University of Iowa, Iowa City, Iowa 52240.

HAERTZEN, DR. CHARLES ANTHONY, b. Minneapolis, Minn, Aug. 17, 25; m. 55; c. 3. CLINICAL PSYCHOLOGY. B.A, Minnesota, 49, M.A, 50; Ph.D. (clin. psychol), Kentucky, 61. Asst. diag. testing, child study center, Minnesota, 49, intel. testing, 49-50; state psychologist psychother. testing, Rochester State Hosp, Minn, 50-53; diag. testing, bur. psychol. servs, State Dept. Pub. Welfare, 53-56; RES. PSYCHOLOGIST, NAT. INST. MENT. HEALTH ADDICTION RES. CENTER, U.S. PUB. HEALTH SERV. HOSP, KY, 56-U.S.M.C, 43-46. Psychol. Asn. Prognosis with electroshock therapy; determination of subjective responses to drugs; difficulty level of English words; personality studies of mentally ill and drug addicts; use of anagrams; test of factor analytic assumptions; psychopharmacology. Publ: Follett vest pocket anagram dictionary, Follett, 64; co-auth, Addiction research center inventory and Effects of morphine and pentobarbital on differential MMPI profiles, J. Clin. Psychol. Address: National Institute of Mental Health Addiction Research Center, U.S. Public Health Service Hospital, Lexington, Ky. 40501.

HAFER, JAMES S, b. Twin Falls, Idaho, Sept. 20, 18; m. 47; c. 5. POLITICAL SCIENCE. B.A, Shepherd Col, 50; Georgetown, 52-53; M.A, American Univ, 56. Assoc. prof. hist. & polit. sci, Shepherd Col, 56-67; DEP. CHIEF, SPEC. FACILITIES DIV, OFF. EMERGENCY PLANNING, EXEC. OFF. OF THE PRESIDENT, 67- Consult, Off. Emergency Planning, W.Va, 65- Mem, Gov. Civil Defense Adv. Cmt, W.Va, 66- U.S.A, 34-38, 41-47, 50-53, Res, 53-, Lt. Col. Military policy, especially of the United States, and its relation to foreign policy. Publ: Problem of proper relationship between military and national policy in U.S. foreign policy. Address: Office of Emergency Planning, Special Facilities Division, Room 125, Executive Office Bldg. Annex, Washington, D.C. 20504.

HAFERBECKER, DR. GORDON M(ILTON), b. Antigo, Wis, July 19, 12; m. 37; c. 2. ECONOMICS. B.E, Wis. State Col.(Stevens Point), 39; M.A, Northwestern, 42; Ph.D.(econ), Wisconsin, 52. Instr. soc. sci, Wis. State Col.(La Crosse), 45-46; from assoc. prof. to prof. econ, Wisconsin, Milwaukee, 46-56; dean of instr, WIS. STATE, STEVENS POINT, 56-63, V.PRES. ACAD. AFFAIRS, 63- Vis. lectr, Wisconsin, 52-53; Found. Econ. Ed. fel, Allis-Chalmers Corp, 54. Mem, Governor's Tax Adv. Cmt, 59-60. Econ. Asn; Indust. Rels. Res. Asn. Labor economics and legislation; public finance; labor arbitration. Publ: Wisconsin labor laws; Wisconsin idea in safety legislation, Pamphlet, Univ. Wisconsin. Address: 600 Clayton Ave, Stevens Point, Wis. 54481.

HAFFAR, PROF. AHMAD R, b. Tripoli, Lebanon, Mar. 10, 29; m. 56; c. 2. POLITICAL SCIENCE. B.A, Utah, 54, M.A, 56; M.A, Princeton, 58, Ph.D, 61. Asst. to Philip K. Hitti, Princeton, 59-60; asst. prof. near east & African studies, STATE UNIV. N.Y. COL. NEW PALTZ, 61-65, ASSOC. PROF. POLIT. SCI, 65-, RES. FOUND. GRANT, 62- Res. assoc, Center Mid. East. Studies, Harvard, 66-71. Polit. Sci. Asn; Mid. East Inst. Comparative politics and institutions; western and non-western political behavior. Publ: Middle East cultures and institutions; Comparative analysis of the response to introduced French political institutions in Lebanon and the Cameroun; Frankish kingdom of Jerusalem. Address: Dept. of Political Science, State University of New York College, New Paltz, N.Y. 12561.

HAFFNER, DR. ALDEN NORMAN, b. New York, N.Y, Oct. 3, 28. PUBLIC ADMINISTRATION, OPTOMETRY. A.B, Brooklyn Col, 48; O.D, Pa. Col. Optom, 52; M.P.A, N.Y. Univ, 60, Ph.D, 64; hon. D.O.S, Mass. Col. Optom, 60. EXEC. DIR. OPTOM. CENTER NEW YORK, 57- Mem, Mayor's Cmt. Study Aging, New York, 58; consult, cent. labor coun, commun. serv. inst, Am. Fedn. Labor-Cong. Indust. Orgns, 59-61; mem, Gov. Med. Adv. Cmt. for Title XIX Prog, N.Y, 67- Prof. Frederic A. Woll Mem. award, 61; Albert Fitch Mem. award, 62. Med.Serv.C, U.S.A.R, 53-55, 1st Lt. AAAS; fel. Acad. Optom; Pub. Health Asn; Sch. Health Asn; Pub. Welfare Asn; Soc. Pub. Admin; Rehab. Asn; Illum. Eng. Soc; Optom. Asn; Geront. Soc; N.Y. Acad. Sci. Institutional administration; public administration of health and welfare services; administration of public social policy. Publ: The definition of optometry—self concepts vs. public concepts in an era of seven decades of change, Optical J. & Rev. Optom, 11/66; The role of voluntary philanthropy, Science, fall 67; A social study of a profession: the study of optometry in New York State, Am. J. Optom. & Arch. Am. Acad. Optom, 11/67. Address: Optometric Center of New York, 351 W. 48th St, New York, N.Y. 10036.

HAFNER, DR. A(DOLF) JACK, b. Milwaukee, Wis, Feb. 21, 27; m. 51; c. 2. CLINICAL PSYCHOLOGY. B.A, Lawrence Col, 50; M.A, Indiana, 53, Ph.D. (psychol), 55. Instr. med. psychol, Washington (St. Louis), 55-58; asst. prof. psychol, MINNESOTA, 58-64, ASSOC. PROF. CLIN. PSYCHOL, 64- Consult, Nat. Center Health Statist, 64-; field selection officer, Peace Corps, 65-U.S.A.A.F, 45-46. AAAS; Psychol. Asn; Soc. Res. Child Develop. Psychology of exceptional child; assessment of abnormal personality. Address: Box 393 Mayo, University of Minnesota, Minneapolis, Minn. 55455.

HAFTER, DR. ERVIN R(ALPH), b. Dallas, Tex, Mar. 3, 36; m. 57; c. 2. PSYCHOPHYSICS. B.S, Purdue, 58; Ph.D.(psychol), Texas, 64. Res. asst. behav. genetics, R.B. Jackson Mem. Lab, Bar Harbor, Maine, 58-59; res. sci. assoc. psychophys, defense res. lab, Univ. Texas, Austin, 60-64; ENGR.& SCIENTIST, TRACOR, INC, 64- Asst. & lectr, dept. psychol, Texas, 61-63. AAAS; Acoustical Soc. Am. Man-machine interaction; physiological psychology and psychophysics of hearing; visual perception; engineering psychology. Publ: Lateralization of tones and clicks. Address: Tracor, Inc, 1701 Guadalupe St, Austin, Tex. 78701.

HAGAN, PROF. ALBERT ROSS, b. Mercer, Mo, Jan. 2, 10; m. 37; c. 2. AGRICULTURAL ECONOMICS. B.S, Missouri, 35, M.S, 50; Farm Found. fel, Mich. State, 57-58, Ph.D.(agr. econ), 63. County agent, Mo, 35-40; exten. economist, Univ. Missouri, 40-46; asst. mgr, Krehbiel's, 46-47; exten. economist, MISSOURI, COLUMBIA, 47-57, PROF. AGR. ECON, 59-Agr. Econ. Asn; Soc. Farm Mgr. & Rural Appraisers. Agricultural adjustments to meet the impact of changing economic conditions; financial management; economic analyses of farm enterprises and operating systems. Publ: Co-auth, Part-time farming—its role in a changing agriculture SB807, Economic potential for beef cows SB827 & Economic analysis of alternative beef cattle systems RB895, Univ. Missouri, 65. Address: Room 223-B Munford Hall, University of Missouri, Columbia, Mo. 65201.

HAGAN, PROF. CHARLES B(ANNER), b. Irwin, Va, Jan. 27, 05; m. 38; c. 2. POLITICAL SCIENCE. A.B, Emory and Henry Col, 26; A.M, Virginia, 28; fel, Duke, 29-30, Ph.D, 33; Carnegie fel, Harvard, 31-32. Mem. faculty, Emory & Henry Col, 28-29; Duke, 30-31; Illinois, 34-35; Smith Col, 35-37; from asst. prof. to PROF. POLIT. SCI, Illinois, 37-67, HOUSTON, 67- Vis. lectr, Harvard, 42-44; Fulbright lectr, Sydney, Australia, 57-58; Australian-Am. Ed. Found. lectr, New South Wales, 66. With U.S. Dept. State, 52-53. Polit. Sci. Asn. Government and business; process of policy formation. Publ: Co-auth, Blueprint for our democracy. Address: Dept. of Political Science, University of Houston, Houston, Tex. 77004.

HAGANS, DR. JAMES A(LBERT), Med. Biostatist, Clin. Pharmacol, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

HAGE, DR. DONALD H(ERMAN), b. Arapahoe Co, Colo, Dec. 8, 21. MARKETING. B.S.C, Denver, 43, M.B.A, 47; Ph.D, Illinois, 62. From instr. to asst. prof. bus, Valparaiso, 47-51; asst. mkt, Illinois, 52-54; assoc. prof, North Dakota, 54-56; asst. prof, Colorado, 56-60; mkt. & res. dir, Broyles Allebaugh & Davis, Inc, 60-65; ASSOC. PROF. MKT, DENVER, 65- U.S.N, 44-45, Lt.(jg). Mkt. Asn. Marketing and advertising research. Address: Dept. of Marketing, University of Denver, Denver, Colo. 80210.

HAGE, DR. JERALD, b. St. Paul, Minn, Sept. 27, 32; m. 66. SOCIOLOGY. B.B.A, Wisconsin, 55; Ph.D.(sociol), Columbia, 63. Fel, WISCONSIN, MADISON, 63-64, ASST. PROF. SOCIOL, 64- U.S.N, 55-58, Lt.(jg). Testing theories about organizations; social change; methodology. Publ: Co-auth, Social change in complex organizations, Random, (in press); auth, An axiomatic theory of organizations, Adv. Sci. Quart, 12/65; co-auth, Program change and other organizational properties, Am. J. Sociol, 3/67. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

HAGEDORN, DR. HOMER J, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HAGEDORN, DR. ROBERT (BRUCE), b. Menlo Park, Calif, Nov. 2, 25; m. 62; c. 2. SOCIOLOGY. B.A, San Francisco State Col, 50; M.A, Washington (Seattle), 53; California, Los Angeles, 57; Ford grant, Texas, 60, Nat. Inst. Ment. Health fel. & Ph.D, 63. Instr. sociol, City Col. San Francisco, 54-55; psychol. & sociol, Ventura Jr. Col, 55-60; asst. prof. SOCIOL, Washington State, 63-66; ASSOC. PROF, CALIF. STATE COL. FULLERTON, 66- Res. grants, Washington State Univ, 63-64 & Nat. Sci. Found, 65-66. Consult, Fairview State Hosp, 66- U.S.A.A.F, 44-46, Sgt. Sociol. Asn. Formal organizations; industrial sociology; social psychology. Publ: Analysis of community and professional participation among occupations, Soc. Forces, 6/67; A cross-cultural assessment of official reaction to deviant behavior, Brit. J. Criminol, 10/67; co-auth, Participation in community associations by occupation: a test of three theories, Am. Sociol. Rev, 4/68. Address: Dept. of Sociology, California State College at Fullerton, Fullerton, Calif. 92631.

HAGEN, PROF. C(LARENCE) LARRY, b. Seabeck, Wash, May 19, 17; m. 40; c. 3. PSYCHOLOGY. S.B, Harvard, 39; M.A, Utah, 55, Ph.D.(psychol), 57. Instr. PSYCHOL, Ore. State Col, 47-49, asst. prof, 49-51; COL. OF IDAHO, 56-59, assoc. prof, 59-63, PROF, 63- Psychol. Asn. Mental health; surveys and opinion polling. Address: College of Idaho, Caldwell, Idaho 83605.

HAGEN, PROF. ELIZABETH (PAULINE), b. Md, Dec. 2, 15. PSYCHOLOGY. B.A, West. Md. Col, 36; M.A, Columbia, 48, Ph.D.(psychol), 52. Res. assoc, TEACHERS COL, COLUMBIA, 50-56, instr. PSYCHOL. & ED, 51-56, asst. prof, 56-59, assoc. prof, 59-63, PROF, 63- U.S.N, 43-46, Lt. Test construction; prediction of vocational success. Publ: Co-auth, Measurement and evaluation in psychology and education and 10,000 careers. Address: 525 E. 86th St, New York, N.Y. 10028.

HAGEN, PROF. EVERETT E(INAR), b. Holloway, Minn, July 5, 06; m. 37. ECONOMICS. A.B, St. Olaf Col, 27; M.A, Wisconsin, 32, Ph.D, 41. Instr. econ, Mich. State Col, 37-42; economist, Nat. Resources Planning Bd, D.C, 42-43; Fed. Reserve Bd, 43-45; Off. War Mobilization & Reconversion, 45-46; fiscal analyst, fiscal div, U.S. Bur. Budget, 46-48; prof. econ, Illinois, 48-51, chmn. dept, 50-51; econ. adv, Govt. Union Burma, 51-53; vis. prof. econ. & staff mem, CENTER INT. STUDIES, MASS. INST. TECH, 53-59, PROF. ECON, 59- Guggenheim mem. fel, 63-64. Consult, Econ. Coop. Admin, 48; U.S. Treas, 49; Govt. of Japan, 56; Govt. El Salvador, 63. Econ. Asn; Royal Econ. Soc. Capital and monetary theory; economic development. Publ: On the theory of social change: how economic growth begins, Dorsey, 62; Planning economic development, 63 & The economics of development, 68, Irwin. Address: Center for International Studies, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

HAGEN, DR. JOHN W, b. Minneapolis, Minn, May 11, 40. PSYCHOLOGY. B.A, Minnesota, 62; Woodrow Wilson fel, Stanford, 62-63, U.S. Pub. Health fel, 63-65, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, MICHIGAN, 65- Horace Rackham res. grant, Michigan, 66-67; summer lectr, Minnesota, 67. Standard Oil Found. award, 67. Psychol. Asn; Soc. Res. Child Develop. Development of cognitive processes; interaction between cognition and personality factors; undergraduate teaching. Publ: Co-auth, Effects of distraction upon central versus incidental recall: developmental trends, J. Exp. Child Psychol, 9/65; Developmental study of selective attention, Merrill-Palmer Quart, 4/67; auth, Effect of distraction on selective attention, Child Develop, 9/67. Address: Dept. of Psychology, University of Michigan, 6625 Haven Hall, Ann Arbor, Mich. 48104.

HAGENSICK, PROF. A. CLARKE, b. Milwaukee, Wis, Nov. 27, 33; m. 61. PUBLIC ADMINISTRATION. B.A, Wisconsin, 55, M.A, 56; Ph.D, Hopkins, 60. Asst. prof. POLIT. SCI, Milwaukee, 60-64; ASSOC. PROF. & ASSOC. DIR, INST. GOVT. AFFAIRS, WISCONSIN, MILWAUKEE, 64- Asst. dir. bur. govt, Wisconsin, 60- Soc. Pub. Admin. State and local political behavior, especially upon voting behavior and the legislative process. Publ: Maryland legislators as bureaucrats, Nat. Civic Rev, 10/64; Influences of partisanship and incumbency on a nonpartisan election system, West. Polit. Quart, 3/64; Chief administrative officers in Wisconsin counties, Wis. counties, 4/65. Address: Institute of Governmental Affairs, University of Wisconsin, Milwaukee, Wis. 53201.

HAGENSTEIN, DR. PERRY R(EGINALD), b. St. Paul, Minn, Sept. 25, 31; m. 56; c. 4. NATURAL RESOURCES ECONOMICS. B.S, Minnesota, 52; M.F, Yale, 53; Ph.D.(forest econ), Michigan, 63. SENIOR POLICY ANALYST, Fordyce Lumber Co, Ark, 56-58; Northeast. Forest Exp. Sta, U.S. Forest Serv, Pa, 60-66; U.S. PUB. LAND LAW REV. CMN, WASH, D.C, 66-U.S.A, 53-56. Soc. Am. Foresters; Econ. Asn. Resources policy analysis. Publ: The location decision for wood-using industries in the North Appalachians, 64 & Timber industry opportunities in selected areas of West Virginia, 64, U.S. Forest Serv; Projecting regional timber products production, Proc. Soc. Am. Foresters, 65. Address: 9600 Accord Dr, Potomac, Md. 20854.

HAGER, DR. CHARLES W, b. Mancos, Colo, June 28, 18; m. 44, 58; c. 4. PSYCHOLOGY. B.A, Southern Methodist, 45; B.D, Southwest. Baptist Theol. Sem, 51; Ph.D.(psychol), Texas, 61. Dir. guid. serv, Williamson County Schs, 54-60; Georgetown Pub. Schs, 60-61; ASSOC. PROF. PSYCHOL, TEX. WESLEYAN COL, 61-, DIR. TESTING & COUNSELING, 62- Psychol. Asn; Personnel & Guid. Asn. Personality traits correlated with academic achievement; religion and its relationship to personality; use of religion by personality to achieve significance or stability. Address: Dept. of Psychology, Texas Wesleyan College, Ft. Worth, Tex. 76105.

HAGER, PROF. DON J, b. Dayton, Ohio, Apr. 21, 15; m. 42; c. 3. SOCIOLOGY, ANTHROPOLOGY. B.A, Ohio State, 41, Ph.D, 48. Instr. sociol, Ohio State, 46-48; asst. prof, Princeton, 48-53; dir. res. soc. sci, Am. Jewish Cong, N.Y, 53-57; PROF. SOCIOL. & HEAD DEPT, CALIF. STATE COL. LOS ANGELES, 57- Lectr, Columbia; N.Y. Univ; New Sch. Soc. Res. Consult, UNESCO, 51; Regional Off, Off. Econ. Opportunity, San Francisco, Calif, 66- U.S.A, 42-45. Fel. Sociol. Asn; Soc. Study Social Probs. European sociological theory; sociology of religion; intergroup relations; civil rights. Address: Dept. of Sociology, California State College at Los Angeles, Los Angeles, Calif. 90032.

HAGGARD, DR. ERNEST A(LEXANDER), b. Alhambra, Calif, Dec. 3, 16; m. 51; c. 3. PSYCHOLOGY. A.B, Southern California, 39; univ. fel, Northwestern, 39-41; M.S, 41; univ. fel, Harvard, 41-42, Sheldon fel, 45-46, Ph.D. (ed. psychol), 46. Res. assoc, inst. child welfare, California, 46-48; from asst. prof. to assoc. prof. ed. psychol, Chicago, 48-56, res. consult, inst. psychoanal, 56; PROF. PSYCHOL. COL. MED, ILLINOIS, 56- Vis. lectr, Sarah Lawrence Col, 47; summer vis. prof, Southern California, 62. Psychol. consult. & statistician, Family Soc. Boston; consult, cmt. human develop, Chicago, 46-48, law sch, 55-; cmt. undersea warfare, Nat. Res. Coun, 47-49; res. cmt, Group Adv. Psychiat, 60-66. Mem. ment. health study sect, Nat. Inst. Ment. Health, 57-63, res. career award cmt, 66-68; bd. dirs, Found. Fund Res. in Psychiat, 64-67. Civilian with Off. Sci. Res. & Develop. AAAS; fel. Psychol. Asn; Psychomet. Soc. Experimental-clinical psychology; quantification and measurement; intraclass correlation; decision-making; psychotherapy research; learning and personality theory; social isolation and personality development. Publ: Intraclass correlation and the analysis of variance. Address: Dept. of Psychiatry, University of Illinois College of Medicine, Chicago, Ill. 60612.

HAGLUND, PROF. BYRON E, b. Dodson, Mont, May 7, 18; m. 48. ACCOUNTING. B.B.A, Minnesota, 40, M.A, 46. Certified pub. acct, 47-55; ASSOC. PROF. ECON, WEST. WASH. STATE COL, 56- U.S.C.G.R, 42-46, Comdr. Am. Acct. Asn. Publ: Punched card and punch tape accounting; Punched card accounting, J. Acct. Address: Dept. of Economics, Western Washington State College, Bellingham, Wash. 98225.

HAGMAN, DR. ELMER R(OBERT), b. Priest River, Idaho, Apr. 26, 04; m. 31; c. 2. PSYCHOLOGY. B.S, Idaho, 27, M.S, 28; Ph.D.(psychol), Iowa, 31. Res. asst. child psychol, Iowa Child Welfare Res. Sta, 29-31; clin. psychologist, Hartley-Salmon Clin, Hartford, Conn, 32-42; chief psychologist, Bd. Ed, Hartford, 42-47; EXEC. DIR. RES. & GUID, BD. ED, GREENWICH, 47-Inst. Child Guid. fel, New York, 32; lectr, Hillyer Jr. Col, 41-47. Consult, Conn. Jr. Republic, 32-42. Chmn, State Bd. Exam. Psychol, Conn, 59-U.S.N, 43-46, Comdr. Fel. Psychol. Asn; fel. Orthopsychiat. Asn. Student personnel evaluation; clinical psychology; administration. Address: Board of Education, Greenwich, Conn. 06830.

HAGOOD, DR. MARGARET JARMAN, Sociol, Statist, see 10th ed, Soc. & Behav. Vols, deceased 63.

HAGOPIAN, DR. ELAINE CATHERINE, b. Cambridge, Mass, Jan. 29, 33. SOCIOLOGY. A.B, Boston, 54, A.M, 56, fel, 57-59, Ph.D.(sociol. & anthrop), 62. Lectr. sociol. & anthrop, Boston, 57-59; asst. prof, Smith Col, 62-67; ASSOC. PROF. SOCIOL, SIMMONS COL, 67- Four Col. Asian-African Prog. summer reading grant, 63 & summer fel, 64. Sociol. Asn; fel. African Studies Asn. Comparative sociology, especially problems of modernization in emergent areas; North Africa and the Near East. Publ: Islam and society—formation in Morocco past and present, J. Sci. Study Relig, fall 63; Status and role of Marabout in pre-protectorate Morocco, Ethnology, 1/64; Conceptual stability, the monarchy and modernization in Morocco, J. Develop. Areas, 1/67. Address: Dept. of Sociology, Simmons College, The Fenway, Boston, Mass. 02115.

HAGSTROM, DR. EARL CLIFFORD, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

HAGSTROM, DR. WARREN O(LAF), b. Minneapolis, Minn, May 27, 30; m. 56; c. 2. SOCIOLOGY. B.A, Minnesota, 52, M.A, 54; Ph.D.(sociol), California, Berkeley, 63. Instr. SOCIOL, California, Berkeley, 61-62, res. assoc, 61-63; asst. prof, WISCONSIN, 62-65, ASSOC. PROF, 65- U.S.A, 54-56. AAAS; Sociol. Asn; Anthrop. Asn; Soc. Study Social Probs. Sociology of science, education and the family. Publ: The scientific community, Basic Books, 65; Anomy in scientific communities, Soc. Probs, 64; co-auth, Sponsored and contest mobility of...scientists, Sociol. Ed, 67. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

HAHN, PRES. ARVIN W, b. Milwaukee, Wis, May 11, 23; m. 46; c. 3. GEOGRAPHY. B.S, Concordia Teachers Col.(Ill), 45; S.M, Chicago, 47; Ph.D, Northwestern, 52. Teacher, St. John Lutheran Sch, Ill, 45-50; asst. prof. geog, Concordia Teachers Col.(Ill), 51-55, dir. placement, 56-61, assoc. prof, 55-65, prof, 65-67, chmn. div. soc. sci, 61-67; PRES, BETHANY COL. (KANS), 67- Summer asst. prof, North Dakota, 51; Ill. State Normal Univ, 55. Asn. Am. Geog; Nat. Coun. Geog. Ed. Agricultural and economic geography. Publ: Asia; Horticultural supply of Chicago, J. Geog; South Holland onion set industry, Sci. Monthly. Address: Bethany College, Lindsborg, Kans. 67456.

HAHN, CLIFFORD P(AUL), b. Milwaukee, Wis, June 30, 24; m. 50; c. 3. PSYCHOLOGY. B.B.A, Wisconsin, 49; M.S, Pittsburgh, 51. Res. scientist, Am. Insts. Res, 49-54; res. analyst, Prudential Ins. Co. Am, 54-55; res. scientist, AM. INSTS. RES, 55-61, sr. res. scientist, 61-67, EXEC. SCIENTIST, 67- U.S.A, 43-46, Res, 46-53. AAAS; Psychol. Asn. Selection, classification and training procedures; motivation and job satisfaction; leadership and small group dynamics; automotive and industrial safety. Publ: A guide for evaluating formal enlisted technical training programs, 64 and A guide for the consideration of new training devices and procedures, 66, Am. Inst. Res. Address: American Institutes for Research, 8555 Sixteenth St, Silver Spring, Md. 20910.

HAHN, DR. FRED, b. Czech, May 28, 06; U.S. citizen; m. 49; c. 2. POLITICAL SCIENCE, HISTORY. Cert, Sorbonne, 28; Dr. law & polit. sci, Univ. Prague, 29; M.A, Columbia, 51. Attorney, Prague, 29-39; self-employed, N.Y, 41-62; instr. HIST, Fairleigh Dickinson, 62-64; ASSOC. PROF, TRENTON STATE COL, 64- Guest prof, Frankfurt, 68-69; Fulbright grant, 68-69. Hist. Asn; Polit. Sci. Asn; Econ. Asn; Asn. Asian Studies; Asn. Adv. Slavic Studies. Nationality and minority questions. Publ: Marxist and utopian socialists, Monarch, 65; History of Russia, Am. R.D.M. Corp, Vols. I & II, 68. Address: 780 West End Ave, New York, N.Y. 10025.

HAHN, DR. HANS, b. Mar. 12, 00. PSYCHOLOGY. Ph.D, Heidelberg, 23. Private practice, 22-33; spec. res. asst, Postgrad. Inst. Belgium, 33; prof. psychol. & dir. inst. exp. psychol, Trujillo, Peru, 38-39; prof. appl. psychol. & anthrop, Lima, 39-50, head dept. appl. psychol. & anthrop. & inst. geog, 46-50, dept. exp. psychol, Nat. Inst. Andean Biol, 40-50, nat. inst. exp. pedag, 42-49; prof. PSYCHOL. & head dept, TRANSYLVANIA COL, 50-65, EMER. PROF, 65-; DIR. CLIN. PSYCHOL. & RES, WOODBRIDGE STATE SCH, N.J, 65- Head psychotech. inst, Peruvian Police, Army, Navy & Air Force, 43-50; dept. voc. guid. & appl. exp. psychol, Brit-Peruvian High Sch. Syst, 44-50; Brit-Peruvian Textile Indust, 47-50; acting dir. dept. psychol, N.J. State Hosp, Trenton. Consult, Brit-Peruvian Rwys. & Am. Peruvian Oil Indust, 45-50. AAAS; fel. Acad. Psychosom. Med; Psychol. Asn; Asn. Ment. Deficiency; Acad. Polit. & Soc. Sci; Nat. Ed. Asn; N.Y. Acad. Sci; fel. Int. Coun. Psychol; fel. Asn. Humanistic Psychol; German Soc. Psychol. Applied experimental psychology in industry; altitude research; empathy and perception; apperception in normal neurotic and psychotic individuals; objective tests of specific personality traits; accident proneness; influence of advertising on children; applied anthropology. Publ: Richtige Reklame; Influence de la publicite sur l'emfant, Le Travail Humain; Antropologia aplicada; Desarrollo de metodos soucillos papa el estudio sistematico de los habitantes del Peru, Revista de Ciencias in Lima-Peru. Address: Dept. of Psychology, New Jersey State Hospital, Trenton, N.J. 08625.

HAHN, DR. HARLAN D(EAN), b. Osage, Iowa, July 9, 39. POLITICAL SCIENCE. B.A, St. Olaf Col, 60; Woodrow Wilson fel, Harvard, 63, 64, univ. fel. & M.A, 63, Robert A. Taft fel. & Ph.D.(polit. sci), 64. Budget exam, U.S. Bur. Budget, Exec. Off. President, 62; prog. analyst, dept. health, ed. & welfare, U.S. Off. Ed, 64; asst. prof. POLIT. SCI, Michigan, 64-67, res. assoc, sch. pub. health, 64-67, gen. res. support, 65-67, Rackham res. grant, 66-67, univ. spec. res. grant, 67; ASST. PROF, CALIFORNIA, RIVERSIDE, 67- Mich. Dept. Health res. grant, 65; U.S. Pub. Health Serv. res. grant, 65-67. Asst. in res, U.S. Senator Eugene J. McCarthy, 59. Polit. Sci. Asn. Urban conflict; civil disorders; referendum voting behavior; comparative state and local politics. Publ: President Taft and the discipline of patronage, J. Polit, 5/65; co-auth, Nature of party competition in five Indian states, Asian Surv, 10/66; auth, Turnover in Iowa state party conventions: an exploratory study, Midwest J. Polit. Sci, 2/67. Address: Dept. of Political Science, University of California, Riverside, Calif. 92502.

HAHN, DR. IRVING NATHAN, b. Brooklyn, N.Y, Oct. 1, 25; m. 55; c. 2. CLINICAL PSYCHOLOGY. B.S. & B.A, Kent State, 49; M.S, Oklahoma, 51, Ph.D.(psychol), 55. Psychologist clin. psychol, Griffin Mem. State Hosp, 53-55; chief psychologist, West. State Hosp, 55-57; PSYCHOLOGIST-PSYCHOTHERAPIST, LANCASTER GUID. CLIN, 57- Instr, exten. div, Oklahoma, 56-57; lectr, exten. div, Pa. State, 58-59, 61, 62- Consult, Phillips Univ, 55-57; Lancaster County Prison, 64-65; Off. Probation & Parole, Lancaster County, 65-66; Lancaster City Sch. Syst, 67- U.S.A, 44-46. Psychol. Asn; Orthopsychiat. Soc. Psychotherapeutic processes involved in adult and parent-child psychotherapy, especially therapist's attitudes and behavior; family therapy; a child centered approach to parent-child. Publ: Success and failure experiences upon chronic schizophrenic patients; Age group identifications in the aged; Relationship disturbances, Pa. Psychiat. Quart, summer 64. Address: Lancaster Guidance Clinic, Lancaster, Pa. 17601.

HAHN, PROF. JOHN F(RANCIS), Psychol, see 11th ed, Phys. & Biol. Vols.

HAHN, PROF. MILTON E, b. Galion, Ohio, Oct. 15, 03; m. 28; c. 1. PSYCHOLOGY. B.A, Hamline, 27; M.S, Minnesota, 38, Ph.D.(psychol), 42. Coordinator voc. orientation, Minnesota, 38-41; dir. psychol. servs. center, Syracuse, 45-48; PROF. PSYCHOL, CALIFORNIA, LOS ANGELES, 48-, dean students, 48-60. Lectr, Ceylon, 59, consult, specialist & dir. ed, 59-60. Indust. consult, 48-; consult, bur. med. surg, Vet. Admin, 53-; Off. Voc. Rehab, 54-55. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.M.C.R, 42-45, Res, 45-52, Maj. Psychol. Asn; Personnel & Guid. Asn. Selection, counseling and psycho-evaluation of normal individuals. Publ: Psychoevaluation: adaptation-distribution adjustment, McGraw, 63; California Life goals evaluation schedules, 66 and Planning ahead after 40, 67, West. Psychol. Serv. Address: 1493 La Linda Dr, Lake San Marcos, Calif. 92069.

HAHN, PROF. PAUL G(ENE), b. Portales, N.Mex, Dec. 28, 27; m. 49; c. 1. ANTHROPOLOGY. B.A, Florida, 52; Ph.D, Yale, 61. Curator ANTHROP, Southeast Mus. N.Am. Indians, 57-59; ASST. PROF, Mississippi, 59-62, assoc. prof, 62-63; interim asst. prof, Florida, 63-64; exec. dir. community develop, Seagle Mem. Found, 65-67; ASST. PROF. HIST.(ANTHROP), LOYOLA (ILL), 67- Nat. Inst. Ment. Health sr. fel, 64-65. U.S.A.F, 46-49, Sgt. Fel. Anthrop. Asn; Ethnol. Soc; Soc. Appl. Anthrop; Soc. Am. Archaeol. Archaeology and ethnology of the Southeastern United States and the Caribbean. Address: Division of Anthropology, Loyola University, 6525 Sheridan Rd, Chicago, Ill. 60626.

HAHN, DR. PHILIP J(EROME), b. Sewickley, Pa, Feb. 1, 17; m. 50; c. 2. ECONOMICS. B.S, Juniata Col, 38; M.B.A, Harvard, 40; Ph.D.(econ), Western Reserve, 65. Asst. prof. ECON, YOUNGSTOWN STATE, 50-65, assoc. prof, 65-68, PROF, 68- Found. Econ. Ed. summer fel, Firestone Tire & Rubber Co, 65. Econ. Asn; Finance Asn. Quantitative and qualitative variables influencing college enrollments; models the real factors influencing quantity and quality of bank capital in the United States. Publ: The demand for higher education, Col. & Univ, winter 63; The capital adequacy of commercial banks, American, 67; The conflict in standards of bank capital, Bankers Mag, fall 65. Address: Dept. of Economics, Youngstown State University, Youngstown, Ohio 44503.

HAHN, PROF. WALTER L(EO), b. Passaic, N.J, Jan. 1, 09. ECONOMICS. B.C.S, N.Y. Univ, 34, M.C.A, 35. Instr, Union Jr. Col, 36-37; from instr. to PROF. ECON, COL. OF ST. ROSE, 37-, DIR. DEVELOP, 61- Sr. assoc, Econsults Assocs, 66- U.S.A.A.F, 41-45, Lt. Col. Econ. Asn; Finance Asn. United States banking and development of economic thought of Western world; limitation of loans and investments of domestic commercial banks. Address: Dept. of Economics, College of St. Rose, Albany, N.Y. 12203.

HAHNE, F(REDERICK) W(ILLIAM), b. Schaller, Iowa, July 4, 23; m. 49; c. 1. POLITICAL SCIENCE. B.A, Grinnell Col, 48; Syracuse, 48-49. Pub. admin. intern, State Dept. Audit & Control, N.Y, 49-50; jr. mgt. asst, U.S. Dept. Treasury, 50-51; budget exam, U.S. Dept. Agr, 51-53, orgn. & methods exam, 53-55; budget exam, Nat. Sci. Found, 55-58; budget officer, Develop. Loan Fund, 58-60, asst. secy-treas, 61-62; dep. dir. OFF. MGT, BUR. FOR AFRICA, AGENCY INT. DEVELOP, 62-63, DIR, 63- U.S.A.A.F, 42-46. Soc. Pub. Admin. Budgeting for support of scientific research; state-local fiscal relations; personnel and general administration; international lending. Address: 2311 Glasgow Rd, Alexandria, Va. 22307.

HAIGH, DR. GERARD (VICTOR), b. New York, N.Y, July 12, 21; m. 43; c. 4. PSYCHOLOGY. B.S.S, City Col. New York, 42; Ph.D.(human develop), Chicago, 50. Assoc. prof. psychol, Springfield Col, 50-55; fel. clin. psychol, Menninger Clin, 55-57, assoc. psychologist, 57-58; assoc. prof, psychol, Arizona State, 58-63, PARTNER, PSYCHOL. SERV. ASSOCS, 63- Lectr, Am. Int. Col, 55; California, Los Angeles, 65- Dir, Human Rels. Inst, Univ. Alberta, 67. Consult, Vet. Admin, 60. Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn; Acad. Psychother. Psychotherapy. Publ: Psychology and retreats: frontier for experimentation, In: Call to adventure, Abingdon, 67; Psychotherapy as interpersonal encounter, In: Challenges of humanistic psychology, McGraw, 67; The residential basic encounter group as a medium for personal growth, Grossman, 68. Address: 1314 Westwood Blvd, Los Angeles, Calif. 90024.

HAIMAN, PROF. FRANKLYN SAUL, b. Cleveland, Ohio, June 23, 21; m. 55; c. 2. SOCIAL PSYCHOLOGY. A.B, Western Reserve, 42; M.A, Northwestern, 46, Ph.D.(speech, psychol), 48. Lectr. psychol, Northwestern, 47-48, instr. speech, 48-51, asst. prof, 51-55; Maryland, 55-56; assoc. prof, NORTHWESTERN, 56-61, PROF. GROUP COMMUNICATION, 61-, CHMN. DEPT. PUB. ADDRESS & GROUP COMMUN, 65- Assoc, Nat. Training Labs, 60- U.S.A.A.F, 42-43, 2nd Lt. Psychol. Asn. Small group dynamics and leadership; social-psychological aspects of freedom of speech. Publ: Group leadership and democratic action; Dynamics of discussion; Freedom of speech: issues and cases, Random, 65. Address: 1822 Sheridan Rd, Evanston, Ill. 60201.

HAIMANN, PROF. THEO, b. Koblenz, Germany, Nov. 17, 11; nat; m. 41; c. 2. MANAGEMENT SCIENCE. Ph.D, Bonn, 34; M.B.A, Washington (St. Louis), 55. Pres. & gen. mgr. indust, Lennox Mfg. Co, 56-57; asst. prof. mgt, Arizona, 57-58; BUS. ADMIN, ST. LOUIS, 58-60, assoc. prof, 60-63, PROF, 63- Econ. Asn. Theory of management. Publ: Professional management: theory and practice; Supervisory management for hospitals and related health facilities. Address: Dept. of Management Science, St. Louis University, St. Louis, Mo. 63103.

HAIMOWITZ, DR. M(ORRIS) L(OEB), b. New York, N.Y, June 5, 18; m. 48; c. 3. SOCIAL PSYCHOLOGY. Univ. fel. & A.B, Florida, 41, M.A, 42; univ. fel, Chicago, 47, Soc. Sci. Res. Coun. fel, 48-50, Ph.D, 51. Consult, indust. rels. center, Chicago, 50-54, dir. human rels. center, 55-58; asst. dir. human rels, Chicago Pub. Schs, 60-62, DIR, 62-67; ADULT ED, CHICAGO CITY COL, 67- Soc. psychologist, Wright Jr. Col, 50-54; prof. State Univ, N.Y, 54-55. U.S.A.A.F, 42-46. Sociol. Asn; Int. Transactional Anal. Asn. Group dynamics; community development; teaching methods. Publ: Human development; Selected readings; co-auth, Education—answer to poverty, Dept. Health, Ed. & Welfare, 66; Using Rorschach to measure change in psychotherapy, In: Success in psychotherapy. Address: 1101 Forest Ave, Evanston, Ill. 60202.

HAIMOWITZ, DR. NATALIE R(EADER), b. New York, N.Y, Mar. 27, 23; m. 48; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 44; M.A, Ohio State, 45; Ph.D.(human develop), Chicago, 48. Lectr. psychol, Brooklyn Col, 47-48; fel. clin. psychol, Vet. Admin, 49-51; chief clin. psychologist, Women's & Children's Hosp, Chicago, Ill, 53-60; psychologist, Milwaukee Psychiat. Servs, Wis, 60-65. Lectr, Chicago, 55-59; private practice. Psychol. Asn. Clinical psychology; psychotherapy; group and family therapy; transactional analysis. Publ: Co-auth, Human development, Reducing ethnic hostility through psychotherapy, J. Soc. Psychol. & Personality changes in client-centered therapy, In: Success in psychotherapy. Address: 1101 Forest Ave, Evanston, Ill. 60202.

HAIN, DR. JACK DOYLE, Psychol, see 10th ed, Soc. & Behav. Vols.

HAINES, PROF. DONALD B, Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

HAINES, PROF. FRANCIS D, b. Buckhannon, W.Va, June 3, 99; m. 22; c. 3. SOCIAL SCIENCE. B.S, Mont. State Col, 23; A.M, Mont. State, 32; Ph.D, California, 38. Instr. hist, Boise Jr. Col, 39-43, Navy progs, 43-46; prof, hist, North. Idaho Col. Ed, 46-51; SOC. SCI, ORE. COL. ED, 51-63, EMER. PROF, 63- U.S.A, 17-19. Hist. Asn; Acad. Polit. & Soc. Sci. Northwest history; western horses. Publ: Nez Perce Indians; Appaloosa horse; Story of Idaho. Address: Dept. of Social Science, Oregon College of Education, Monmouth, Ore. 97361.

HAINES, PROF. G(EORGE) H, b. Hanover, Pa, Apr. 25, 03; m. 32; c. 1. ECONOMIC STATISTICS. A.B, Ursinus Col, 27; M.A, Clark, 30, Ph.D.(econ), 46. Assoc. prof. bus. admin, Grove City Col, 37-42; asst. prof. econ. statist, Col. William & Mary, 42-45; assoc. prof. bus. statist, Miami (Ohio), 45-47; econ. statist, Indiana, 47-50; PROF. BUS. & ECON. STATIST, DETROIT, 50-, ASST. DEAN COL. COMMERCE & FINANCE, 66- Qual. control consult, Ohio, 45-46; private consult, 50- Econ. Asn; Statist. Asn; Mkt. Asn; Soc. Qual. Control; Opers. Res. Soc; Inst. Mgt. Sci. Business statistics; economic analysis; quality control. Publ: Workbook for business and economic statistics; History of the Virginia State Federation of Labor; Introductory business statistics. Address: 10844 La Salle Ave, Huntington Woods, Mich. 48070.

HAINES, DR. GEORGE H, JR, b. Syracuse, N.Y, Sept. 17, 37; m. 61; c. 2. ECONOMICS, MARKETING. S.B, Mass. Inst. Tech, 58; M.S, Carnegie Inst. Tech, 60, Ph.D.(econ), 64. ASST. PROF. BUS. ADMIN, California, Los Angeles, 64-66; ROCHESTER, 66- Consult, Pittsburgh Regional Planning Asn, 61-62; Blue Haven Swimming Pool Corp, 65; R.F. Commun, Inc, 66-67. Ord.C, U.S.A.R, 62-64, Capt. Econ. Asn; Mkt. Asn; Econmet. Soc. Individual and small group decision making, especially descriptive models. Publ: The rote marketer, Behav. Sci, 10/61; A theory of market behavior after innovation, Mgt. Sci, 7/64; co-auth, A political approach to a theory of public expenditure, Nat. Tax J, 9/66. Address: College of Business, University of Rochester, Rochester, N.Y. 14627.

HAINES, DR. J(OEL) L(EOPOLD), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HAINES, DR. RICHARD F(OSTER), b. Seattle, Wash, May 19, 37; m. 61; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Pacific Lutheran, 60; M.A, Mich. State, 62, Nat. Insts. Health fel, 63-64, Ph.D.(exp. psychol), 64. Nat. Acad. Sci-Nat. Res. Coun. resident res. assoc. visual perception, NASA, AMES RES. CENTER, MOFFETT FIELD, 64-67, RES. SCIENTIST VISUAL PSYCHOPHYSICS, 67- Consult, dept. prev. med, Stanford, 66-67; mem. cmt. vision, Nat. Acad. Sci-Nat. Res. Coun, 67- Psychol. Asn; Optical Soc; Astronaut. Soc. Psychophysics and psychophysiology of vision in extremely high luminance environments; physiological optics; photometry; retinal and other neural coding of visual stimuli; whole body orientation to the vertical in and out of water. Publ: Justifications and philosophy of the space age, Taylor Pub, 63; Effects of high luminance sources upon the visibility of point sources, Advances Astronaut. Sci, 65; A study of certain visual effects occasioned by factors of so-called glare, J. Psychol, 66. Address: 3854 Corina Way, Palo Alto, Calif. 94303.

HAINES, DR. RICHARD LAURENCE, b. Hollywood, Calif, Oct. 27, 34; m. 64. POLITICAL SCIENCE. A.B, California, Riverside, 61; Nat. Defense Ed. Act. fel, Oregon, 61-64, M.A, 63, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, Calgary, 65-68; PURDUE, 68- U.S.N.R, 55-57. Am. Polit. Sci. Asn; Can. Polit. Sci. Asn. Political socialization; student political activism; voting behavior analysis; contemporary analytical theory. Address: Dept. of Political Science, Purdue University, Lafayette, Ind. 47907.

HAINES, PROF. WALTER W(ELLS), b. Stamford, Conn, Dec. 1, 18; m. 45; c. 6. ECONOMICS. A.B, Pennsylvania, 40, A.M, 41; fel, Harvard, 41-43, A.M, 42, Ph.D.(econ), 43. Instr, Kenyon Col, 46-47; asst. prof. ECON, UNIV. COL. ARTS & SCI, N.Y. UNIV, 47-49, assoc. prof, 49-60, PROF, 60-, CHMN. DEPT, 56- Bus. fel, Chase Nat. Bank, 54; Fulbright lectr, Peshawar, Pakistan, 62-63. Econ. Asn. International economics; money and banking; environmental economics; effects of tariff reductions. Publ: Bank for international settlements; Money, prices and policy; The economic effect of trade liberalization in benzenoid chemicals, Am. Importers Asn, 68. Address: Skyview Acres, Pomona, N.Y. 10970.

HAINLINE, DR. LYDIA JANE, b. Ft. Bliss, Tex, Oct. 30, 31; div; c. 2. ANTHROPOLOGY. B.A, California, Riverside, 60, M.A, Los Angeles, 62, Woodrow Wilson fel. & Ph.D.(anthrop), 64. Lectr. ANTHROP, CALIFORNIA, RIVERSIDE, 62-63, asst. prof, 63-65, res. asst. prof, 65-66, ASST. PROF, 66- Res. grants, Soc. Sci. Res. Coun, summer, 64 & Nat. Sci. Found, 65-67. Chmn. task force anthrop. data processing, human adaptability sect, Int. Biol. Prog, 67- AAAS; fel. Anthrop. Asn; Brit. Soc. Study Human Biol. Population genetics and human ecology; Pacific Islands peoples and culture; demography and population studies. Publ: Genetic exchange: model construction and a practical application, Human Biol, 63; Culture and biological adaptation, Am. Anthropologist, 65; Population and genetic (serological) variability in Micronesia, Annals N.Y. Acad. Sci, 66. Address: Dept. of Anthropology, University of California, Riverside, Calif. 92502.

HAINSWORTH, DR. GEOFFREY B, b. Yorks, Eng, Sept. 30, 34; m. 60; c. 3. ECONOMICS. B.Sc, London Sch. Econ, 55; Ph.D.(econ), California, Berkeley, 60. Teaching asst. ECON, California, 55-58; instr, Harvard, 58-61; res. fel, inst. adv. studies, Australian Nat. Univ, 61-65; ASST. PROF, WILLIAMS COL, 65- Econ. Asn. Asian economic development, economic history and history of economic thought. Publ: Ed, Elements of Japan's economic revolution, Random, 69; auth, Economic development in South East Asia, Heath, 69. Address: Dept. of Economics, Williams College, Williamstown, Mass. 01267.

HAIRE, DR. MASON, b. Ft. Dodge, Iowa, Mar. 21, 16; m. 47; c. 1. PSYCHOLOGY. A.B, Swarthmore Col, 37; M.A, Harvard, 39, Ph.D.(psychol), 42. Res. assoc, sch. bus, Harvard, 42; sr. psychologist, U.S. Air Force Sch. Aviation Med, 46; asst. prof. indust. rels, Mass. Inst. Tech, 46-49; assoc. prof. psychol. & res. assoc, inst. indust. rels, California, Berkeley, 49, prof. psychol, 49-66; vis. prof. ALFRED P. SLOAN SCH. MGT, MASS. INST. TECH, 66-67, PROF, ORGN. PSYCHOL. & MGT, 67- U.S.A.A.F, 42-46. AAAS; Psychol. Asn. Managerial psychology; industrial organization. Publ: Psychology in management; Social science research in business; ed. Modern organization theory. Address: Alfred P. Sloan School of Management, Massachusetts Institute of Technology, Cambridge, Mass. 02138.

HAIT, DR. KENNETH BLAISDELL, b. Patchogue, N.Y, Apr. 18, 00; m. 36; c. 1. PSYCHOLOGY. A.B, Florida, 24; Ph.D.(psychol), Peabody Col, 36. Teacher, pub. schs, Fla, 24-27, supv. prin, 27-31, 33-37; instr. psychol, Peabody Col, 31-33; psychologist, P.K. Yonge Lab. Sch, Florida, 37-38; prof. psychol, Southwestern Louisiana, 38-68; private practice, 68- Counseling psychologist, La. Psychol, Inc; consult, E.La. Hosp, 54-58. U.S.A.A.F, 42-43, Capt. Fel. Psychol. Asn; Soc. Clin. Hypnosis; Acad. Psychother. Personal and vocational counseling; psychotherapy; learning and higher mental processes; testing. Publ: Alter-ego technique, Newsletter, Am. Acad. Psychother, 1/64; Hypnoautism, Psychotherapy, 5/64. Address: P.O. Box 114, University of Southwestern Louisiana, Lafayette, La. 70501.

HAITH, DR. MARSHALL M(YRON), b. Chillicothe, Mo, Apr. 23, 37; m. 62; c. 2. PSYCHOLOGY. B.A, Missouri, 59; M.A, California, Los Angeles, 62, Nat. Insts. Health trainee, 62-63, Ph.D.(psychol), 64. U.S. Pub. Health Serv. fel. DEVELOP. PSYCHOL, Yale, 64-66; asst. prof, HARVARD, 66-67, LECTR, 67- U.S. Pub. Health Serv. res. grant, 67-71. Soc. Res. Child Develop; Psychol. Asn. Attention and visual scanning in newborn infants; short-term visual memory in preschool children. Publ: Note on the innately negative reinforcement value of stimuli, Psychol. Reports, 63; The response of the human newborn to visual movement, 66 & A semi-automatic technique for measuring changes in position, 66, J. Exp. Child Psychol. Address: 33 Kirkland St, Room 504, Cambridge, Mass. 02138.

HAITHCOX, DR. JOHN PATRICK, b. Gaffney, S.C, Feb. 6, 33; m. 57; c. 1. POLITICAL SCIENCE. B.A, Oberlin Col, 55; M.A, California, Berkeley, 59, Ph.D.(polit. sci), 65; Carnegie fel, Chicago, 63-64; Ford Found. fel, India, 61-63. Asst. prof. polit. sci, Dearborn Campus, Michigan, 64-67; sr. fel, Res. Inst. Communist Affairs, Columbia, 67; ASST. PROF. POLIT. SCI, CARLETON COL, 67- Faculty res. grant, Rackham Sch. Grad. Studies, Michigan, 65-66. U.S.A, 55-57. Asn. Asian Studies; Am. Polit. Sci. Asn; Asia Soc. South Asian area studies; comparative government, Asia; politics of developing areas; international relations. Publ: Roy's contribution to the Comintern's national and colonial thesis, Radical Humanist, Calcutta, 5-6/62; The Roy-Lenin debate on colonial policy: a new interpretation, 11/63 & Nationalism and Communism in India: the impact of the 1927 Comintern failure in China, 5/65, J. Asian Studies. Address: Dept. of Government & International Relations, Carleton College, Northfield, Minn. 55057.

HAJDA, DR. JAN, b. Policky, Czech, Mar. 2, 27; m. 56. SOCIOLOGY. B.A, Willamette, 52; M.A, Chicago, 57, Ph.D.(sociol), 63. Lectr. sociol, univ. exten, Indiana, 57-58; asst. study dir. sociol. res, nat. opinion res. center, Chicago, 58-59; asst. prof. SOCIOL, Hopkins, 59-63; California, Riverside, 63-67; ASSOC. PROF, PORTLAND STATE COL, 67- Fulbright res. grant, Germany, 66-67. Sociol. Asn. Structure of East German elites; book reading public in a metropolis. Publ: Co-auth, Stipends and spouses, Univ. Chicago, 62; Alienation and integration of student intellectuals, Sociol. Rev; Study of contemporary Czechoslovakia. Address: Dept. of Sociology, Portland State College, P.O. Box 751, Portland, Ore. 97207.

HAJDA, DR. JOSEPH, b. Policky, Czech, Nov. 4, 25; nat; m. 53; c. 6. POLITICAL SCIENCE. A.B, Miami (Ohio), 51, M.A, 52; Ph.D.(polit. sci), Indiana, 55. Asst, bur. govt. res, Indiana, 52-54, instr. govt, 54-57; asst. prof. govt, KANSAS STATE, 57-60, ASSOC. PROF. POLIT. SCI, 60- DIR. INT. PROGS, OFF. INT. ACTIVITIES, 65- Ford Found. fel, 56. Int. economist, Off. Spec. Rep. Trade Negotiations, Wash, D.C, 64-65. Consult, Off. Secy. Agr, 62. Polit. Sci. Asn. International politics; comparative government. Publ: Contrib, Dictionary of political science, 64 and Handbook of world history, 67, Philosophical Library; contrib, Czechoslovakia: past and present, Mouton, 67. Address: 1817 Alabama Lane, Manhattan, Kans. 66502.

HAKALA, DR. DONALD RICHARD, b. Princeton, Mich, Feb. 19, 32; m. 57; c. 2. ECONOMICS. B.S, Northern Michigan, 54; M.A, Wayne State, 59; Ph.D.(econ), Indiana, 66. Instr. econ, Stout State, 60-62; asst. prof, Northern Michigan, 63-64; consult, Regional Manpower Develop. Prog, Northern Michigan, 64-65; economist, Fed. Reserve Bank, Cleveland, Ohio, 66-67; ASST. PROF. ECON. & FINANCE, CLEVELAND STATE, 67- U.S.A, 55-57. Econ. Asn; Asn. Bus. Econ. Industrial, regional, and financial economics. Publ: Co-auth, Manpower problems and economic opportunities in an adjusting regional economy, North. Michigan Univ, 65; auth, Municipals at midyear, 10/66 & Economic profile of Toledo, 6/67, Econ. Rev. Address: Dept. of Economics, Cleveland State University, Cleveland, Ohio 44115.

HAKE, DR. DON FRANKLIN, b. St. Louis, Mo, June 28, 36; m. 60; c. 2. PSYCHOLOGY. B.A, DePauw, 58; M.A, Southern Illinois, 62, Ph.D.(psychol), 63. MED. RES. ASSOC. III PSYCHOL, ANNA STATE HOSP, 62-; ASST. PROF. REHAB, SOUTHERN ILLINOIS, 65- Psychol. Asn. Operant conditioning; punishment; social behavior. Publ: Conditioned punishment, 65, The effects of punishment intensity on squirrel monkeys, 67 & Social facilitation of responses during a stimulus paired with shock, 67, J. Exp. Anal. Behav. Address: Behavior Research Lab, Anna State Hospital, Anna, Ill. 62906.

HAKE, PROF. HAROLD W(ESLEY), b. Wauwatosa, Wis, June 11, 19; m. 53; c. 2. PSYCHOLOGY. B.S, Wisconsin, 46, M.S, 48, Ph.D.(psychol), 50. Instr. PSYCHOL, Hopkins, 50-51, asst. prof, 51-56; assoc. prof, ILLINOIS, URBANA, 56-60, PROF, 60- U.S.M.C, 43-46. AAAS; Psychol. Asn; Psychomet. Soc; Optical Soc. Perception; statistics; communication. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61801.

HAKEREM, DR. GAD, b. Schwerte, Germany, Apr. 22, 19; U.S. citizen; m. 50; c. 2. PSYCHOLOGY. B.S, Columbia, 54, M.A, 55, Ph.D.(psychol), 62. From assoc. res. scientist to RES. SCIENTIST, N.Y. STATE DEPT. MENT. HYG, 56-; ASST. PROF, QUEENS COL.(N.Y), 65- U.S. Pub. Health Serv. res. grant, 58-67. AAAS; Psychol. Asn. Experimental psychopathology; physiological psychology. Address: Dept. of Psychology, Queens College, Flushing, N.Y. 11367.

HAKMAN, DR. NATHAN, b. Dorchester, Mass, July 2, 21; m. 55; c. 1. POLITICAL SCIENCE. A.B, Ohio, 39; summer, Harvard, 39; M.A, Syracuse, 47; assistantships, Illinois, Urbana, 48-50, 54, Ph.D.(polit. sci), 54. Instr. polit. sci, Alabama, 47-48; labor & indust. rels. analyst, U.S. Govt, 50-54; instr. polit. sci, Mich. State, 54-56; asst. prof. pub. admin, Denver, 56-60, dir. citizenship clearance house, 56-59; ASSOC. PROF. POLIT. SCI, STATE UNIV. N.Y. BINGHAMTON, 60- State Univ. N.Y. res. fels, 62, 64, 65. Consult, Jefferson County, Colo, 58-59. U.S.A.A.F, 43-45, Sgt. Polit. Sci. Asn. Labor law, relations and history; public administration; scope and method; American politics; public law. Publ: Survey of Illinois Labor Relations Law, Ill. Law Rev, 6/51; Bentley's transactional view of politics, Soc. Sci, 1/58; Lobbying the Supreme Court, Fordham Law Rev, 11/66. Address: Dept. of Political Science, State University of New York at Binghamton, Binghamton, N.Y. 13901.

HAKMILLER, DR. KARL LEONARD, b. Antioch, Calif, July 9, 35; m. 58; c. 3. SOCIAL PSYCHOLOGY. B.A, California, Berkeley, 58; Ph.D.(psychol), Minnesota, Minneapolis, 63. Res. psychologist, U.S. Pub. Health Serv, 62-63; asst. prof. SOC. PSYCHOL, CONNECTICUT, 63-67, ASSOC. PROF, 67- Nat. Sci. Found. grant studies soc. comparison, 65-67. AAAS; Psychol. Asn. Social comparison processes; cognitive organization. Publ: Threat as a determinant of downward comparison, 9/66 & Need for self-evaluation, similarity and comparison choice, 9/66, J. Exp. Soc. Psychol. Address: Dept. of Psychology, University of Connecticut, Storrs, Conn. 06268.

HALAAS, PROF. EUGENE T, b. Hickson, N.Dak, Apr. 9, 98; m. 33; c. 2. FINANCE. B.A, Concordia Col.(Moorhead, Minn), 19; M.A, Chicago, 24, Ph.D. (finance, econ), 33. Prin, pub. schs, Minn, 19-23; supt, pub. schs, N.Dak, 24-28; assoc. prof. gen. bus, Gustavus Adolphus Col, 28-30; Drake, 33-34; PROF. FINANCE, DENVER, 34- Consult, City of Wichita, Kans, 56-57; City of Canton, Ohio, 58-59; Gov. Colo, 59-60. Dir. studies, City of Denver, 50-51, 55-56; State of Colo, 59-60. U.S.A, 18-19; U.S.N.R, 42-46, Comdr. Government finance and banking; feasibility of starting banks; tax studies. Publ: Readings in commercial bank management, Univ. Denver, 60; co-auth, Financing municipal government in Denver, City of Denver, 55; Financing Government in Colorado, State of Colorado, 59. Address: Dept. of Finance, University of Denver, Denver, Colo. 80210.

HALAMAY, PROF. STEPHEN, b. Ivachiv, Ukraine, Nov. 13, 13; U.S. citizen; m. 37; c. 1. ECONOMICS, LAW. M.A, King Kasimir Univ, 37; Ph.D.(law), 41; M.A, Seton Hall, 58; M.L.S, Rutgers, 63. Asst. admin. law, Ukraine Free Univ, 48-50; asst. prof. econ, Seton Hall, 64-66, cataloger for. lang, 60-62, ed-in-chief, Bus. J, 60-64, reference librn. bus. & ed, 63-66; PROF. ECON, W.VA. INST. TECH, 66- Asn. Adv. Slavic Studies. Ethnology; East European economic relationships. Publ: Co-auth, Administrative law, Ukraine Free Univ, 49. Address: Dept. of Economics, West Virginia Institute of Technology, Montgomery, W.Va. 25136.

HALAS, PROF. EDWARD S(TEVEN), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

HALASZ, DR. MICHAEL F(RANCIS), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HALBERSTAM, DR. JACOB L(EO), b. Poland, Aug, 12, 28; nat. CLINICAL PSYCHOLOGY. B.A, City Col. New York, 53; fel. & Ph.D.(clin. psychol), Columbia, 58. Intern clin. psychol, Albert Einstein Col. Med, Yeshiva & Bronx Munic. Hosp. Center, 55-56; asst. psychiat, Albert Einstein Col. Med, Yeshiva, 56-57; mem. staff. & res. psychologist, GOLDWATER MEM. HOSP, 58-61, CHIEF PSYCHOL. SERVS, 61- Instr. phys. med. & rehab, N.Y. Univ. Med. Center, 58-61, asst. prof. rehab. med, 65-; lectr, Queens Col.(N.Y), 58-61; res. coordinator, Inst. Int. Ed, 61- Dipl, Am. Bd. Exam. Prfnl. Psychol, 67. AAAS; Psychol. Asn; assoc. fel, N.Y. Acad. Med. Physiological correlates of personality; geriatric problems, especially in the areas of learning and conditioning; psychological diagnosis and psychotherapy. Publ: Some personality correlates of conditioning, generalization and extinction, Psychosom. Med; Foreign and U.S. residents in university affiliated teaching hospitals: an investigation of United States graduate medical education, Bull. N.Y. Acad. Med, 3/66; Rating reliability and affective value of words as a function of age and brain damage, J. Geront, 10/66. Address: Psychological Services, Goldwater Memorial Hospital, Welfare Island, New York, N.Y. 10017.

HALBERT, MICHAEL, b. Philadelphia, Pa, Mar. 21, 26; m. 59; c. 7. OPERATIONS ANALYSIS. A.B, Pennsylvania, 49. Staff specialist opers. res, res. & develop. labs, Franklin Inst, 46-53; sr. analyst & staff specialist, Alderson & Sessions, 53-56; res. assoc, Case, 56-58; opers. res. specialist, E.I. du Pont de Nemours & Co, 58-62; TECH. DIR, MKT. SCI. INST, 62-; PRES, INST. STUDY INQUIRING SYSTS, 67- Oper. res. consult, 58- Opers. Res. Soc; Inst. Mgt. Sci; Mkt. Asn; Soc. Indust. & Appl. Math; Sociol. Asn; Acad. Polit. & Soc. Sci; Statist. Asn; Mkt. Asn. Operations research in communication, advertising and marketing. Publ: The meaning and sources of marketing theory, McGraw, 65; co-auth, Men, motives and marketing, Prentice-Hall, 68 & Operations research study of the dissemination of scientific information, Proc. Int. Conf. Sci. Info, Nat. Acad. Sci. Address: Marketing Science Institute, 3401 Market St, Philadelphia, Pa. 19104.

HALCOMB, DR. CHARLES GROVER, b. Tulsa, Okla, Apr. 26, 36; m. 60; c. 2. HUMAN FACTORS & EXPERIMENTAL PSYCHOLOGY. A.B, Oklahoma Baptist, 58; Ph.D.(psychol), Baylor, 64. Asst. prof. PSYCHOL, Murray State, 62-64; TEX. TECH. COL, 64-66, ASSOC. PROF, 67- Psychol. Asn. Influence of environmental and organismic variables on monitoring or vigilance behavior. Address: Dept. of Psychology, Texas Technological College, Lubbock, Tex. 79409.

HALCROW, PROF. HAROLD G(RAHAM), b. Bowesmont, N.Dak, Oct. 11, 11; m. 41; c. 5. AGRICULTURAL ECONOMICS. B.S, N.Dak. State, 37; M.S, Mont. State Col, 38; Farm Found. fel, Chicago, 41-42, Ph.D.(econ), 48. Prof. agr. econ, Mont. State Col, 46-49; Connecticut, 50-57; PROF. AGR. ECON. & HEAD DEPT, COL. AGR, ILLINOIS, 57- U.S.N.R, 43-46, Lt. Agr. Econ. Asn; Econ. Asn. Government finance; farm credit; state and local tax problems. Publ: Agricultural policy of the United States; Contemporary readings in agricultural economics. Address: Dept. of Agricultural Economics, College of Agriculture, University of Illinois, Urbana, Ill. 61820.

HALD, DR. EARL C(ARLSEN), Econ, see 10th ed, Soc. & Behav. Vols.

HALDI, DR. JOHN, b. Ann Arbor, Mich, July 16, 31. ECONOMICS. A.B, Emory, 51; M.A, Stanford, 56, Ph.D, 61. Asst. prof. econ, grad. sch. bus, Stanford, 59-66; chief prog. eval. staff, Bur. Budget, Wash, D.C, 66-67; PRES. JOHN HALDI ASSOCS, 67- Dir, off. planning, Post Off. Dept, Wash, D.C, 66-67. Econ. Asn; Economet. Soc; Inst. Mgt. Sci. Economic development; econometrics; optimal investment patterns under conditions of increasing return; theory of the firm; planning-programming-budgeting systems. Publ: Co-auth, Simulated economic models, Irwin, 64, A computer code for integer solutions to linear problems, Opers. Res, 11-12/65 and Economics of scale in industrial plants, J. Polit. Econ, 8/67. Address: 444 E. 82nd St, Apt. 14-P, New York, N.Y. 10028.

HALE, DR. CHARLES A(DAMS), Latin Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HALE, DR. CLARA B(UCKLAND), b. Colo, May 26, 04; m. 22; c. 3. PSYCHOLOGY, SOCIOLOGY. A.B, Whittier Col, 42, M.A, 43; Chicago, 43; Claremont Col, 46-49; Ed.D.(family life ed), California, Los Angeles, 54. Family life specialist, Long Beach Bur. Pub. Assistance, 43-45; counsr. & teacher, Orange City Schs, Calif, 45-46; counsr. & instr. soc. scis, Santa Ana Col, 46-48; lectr. & counsr, Am. Inst. Family Rels, 48-65. Psychologist & dir. family life ed, Corona City Schs, 49-51; specialist family life ed, exten, California, 53-61; assoc, Johnston Gendel Med. Clin, Anaheim, Calif, 54-61. AAAS; Psychol. Asn; Int. Coun. Psychol. Parent education; family life problems; child guidance. Publ: Youth's greatest need, Wholesome attitudes & Twoness of life, Baptist Leader. Address: 2332 N. Olive Lane, Santa Ana, Calif. 92706.

HALE, PROF. E(DWARD) E(VERETT), Econ, see 10th ed, Soc. & Behav. Vols.

HALE, PROF. E(LMORE) ALAN, b. Bison, S.Dak, Sept. 15, 21; m. 49; c. 3. ECONOMICS. B.A, Gustavus Adolphus Col, 43; M.A, Illinois, 48, Ph.D. (econ), 53; Leeds, 48. Asst, Illinois, 47-51; price economist, U.S. Bur. Labor Statist, 51-53; opers. analyst, Convair Div, Gen. Dynamics Corp, Tex, 53-55, nuclear economist, gen. atomic div, Calif, 55-57; PROF. MKT. & DIR. BUR. BUS. & ECON. RES, SAN DIEGO STATE COL, 57- Prof, eve. col, Texas Christian, 54-55. U.S.N, 43-46, Lt. Econ. Asn; Opers. Res. Soc; Statist. Asn. Nuclear and industrial economics; productivity measurement. Address: Dept. of Marketing, San Diego State College, San Diego, Calif. 92115.

HALE, DR. GERRY A, b. Los Angeles, Calif, Apr. 24, 33; m. 60. GEOGRAPHY. B.A, California, Los Angeles, 55, M.A, 62, Ph.D.(geog), 66; American Univ. Beirut, 57-58. California-Khartoum ed. exchange prog. vis. lectr. GEOG, Khartoum, 61-64; vis. asst. prof, Southern California, 64-65; assoc, CALIFORNIA, LOS ANGELES, 65-66, ASST. PROF, 66- California, Los Angeles-African Studies Center Nat. Defense Ed. Act res. grant field work, Sudan, 66; African Studies Center-Ford Found. non-Western res. grant, 66-67; Nat. Sci. Found. Instnl. grant, 67. Geog. consult, Sudan transportation study, Lockheed Aircraft Corp, Int, 66. Asn. Am. Geog; Am. Geog. Soc; Mid. East Inst; Mid. East Studies Asn. N.Am; Sudan Philos. Soc. Cultural geography of the Republic of Sudan, especially sedentarization of nomads, rural landscape abandonment, evolution of settlement patterns and persistence of traditional culture in areas of economic development. Publ: Co-auth, Nature, origin and distribution of agricultural terracing, Pac. Viewpoint, 3/61; auth, Terrasseagerbrug i Jebel Marra, Darfur, Sudan, Kulturgeografi, 4/64. Address: Dept. of Geography, University of California, Los Angeles, Calif. 90024.

HALE, PROF. GIFFORD G(RAHAM), b. Philadelphia, Pa, Sept. 19, 14; m. 42; c. 4. BEHAVIORAL SCIENCES. B.S, West Chester State Col, 32; M.S, Pennsylvania, 40; Ed.D.(higher ed), Columbia, 50. Teacher, elem. schs, Pa, 36-37, N.Y, 46-47, teaching prin, Pa, 37-42, prin, N.J, 47-50; head dept. ed. & dir. student teaching, Newark State Col, 50-56; from assoc. prof. to prof. gen. prfnl. ed, FLA. STATE, 56-63, head dept, 56-63, PROF. SOC. STUDIES ED. & BEHAV. SCI, 63- Fulbright exchange prof, Loughborough Col. Tech. & pres, Am. Exchange Teachers in U.K, 55-56. Mem. & v.pres, N.J. Sch. Bd, 52-55; bd. trustees, New Col, 60-; v.chmn, Fla. State Univ. Exp. Col. Bd. & consult, Southeast. Residential Cols. Group, 65- U.S.A, 42-46, Capt. Nat. Ed. Asn; Comp. Ed. Soc; Nat. Soc. Study Ed. Social studies education. Publ: Co-auth, A guidebook for student teaching, N.J. State Cols, 54; auth, Elementary school social studies, W.C. Brown, 66; An American looks at English education, Training Col. J. Eng, 56. Address: Dept. of Social Studies Education, Florida State University, Tallahassee, Fla. 32306.

HALE, DR. HARRY J, JR, b. Fresno, Calif, June 3, 33; m. 57; c. 1. SOCIOLOGY. B.A, Fresno State Col, 59; Nat. Defense Ed. Act fel. & Ph.D. (sociol), Tennessee, 63. Instr. SOCIOL, Tennessee, 62-63; asst. prof, Fresno State Col, 63-66; assoc. prof, Western Kentucky, 66-67; lectr, Fresno State Col, 67-68; PROF, EASTERN KENTUCKY, 68- U.S.N.R. Sociol. Asn. Social stratification; industrial sociology. Address: Dept. of Sociology, Eastern Kentucky University, Richmond, Ky. 40475.

HALE, DR. JOHN FRANCIS, b. Pawtucket, R.I, Dec. 31, 35; m. 57; c. 2. PSYCHOLOGY. A.B, Brown, 57, M.A, 59; Ph.D.(psychol), Carnegie-Mellon Univ, 63. Assoc. res. scientist, AM. INST. RES, 63-64, res. scientist, 64-66, SR. RES. SCIENTIST, 66- Instr, eve. div, Carnegie-Mellon Univ, 63-67. Psychol. Asn. Performance under stress; human factors; systems analysis. Publ: Laboratory investigations of shelter management factors, Am. Inst. Res, 65; co-auth, Dyadic interaction as a function of amount of feedback and instructional orientation, Human Rels, 63; auth, On the interaction effect between early experience, later response to a terminal stressor, and intervening stress, J. Comp. & Physiol. Psychol, 64. Address: 945 Fredericka Dr, Pittsburgh, Pa. 15236.

HALE, PROF. KENNETH L(OCKE), b. U.S, Aug. 15, 34; m. 55; c. 1. ANTHROPOLOGICAL LINGUISTICS. B.A, Arizona, 55; M.A, Indiana, 56, Ph.D, 59; New Mexico, 56-57. Asst. anthrop, Indiana, 58-59; fel. ling, Nat. Sci. Found, 59-61; asst. prof. anthrop. & ling, Illinois, 61-64; ASSOC. PROF, anthrop, Arizona, 64-67; LING, MASS. INST. TECH, 67- Fel. Anthrop. Asn; Ling. Soc. Aboriginal languages of America and Australia; comparative linguistics and language typology; structural linguistics and its application to unwritten languages. Publ: Typological and comparative grammer of Uto-Aztecan: I; Jemez and Kiowa correspondences in reference to Kiowa-Tanoan and Internal diversity in Uto-Aztecan: I, Int. J. Am. Ling. Address: Dept. of Linguistics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

HALE, PROF. MYRON Q, b. Oakley, Idaho, Sept. 17, 21; m. 47; c. 3. POLITICAL SCIENCE. B.A, Utah, 47, M.A, 49; fel, City Col. New York, 54-55; Ph.D, Columbia, 59. Lectr. POLIT. SCI, Columbia, 53-56; instr, Texas, 56-58; asst. prof, Ohio State, 59-64, assoc. prof, 64-68; PROF. & HEAD DEPT, PURDUE, 68- U.S.N.A.F, 42-46, Lt. Polit. Sci. Asn. American institutions and ideas; political theory; public law; formulation and administration of foreign policy. Publ: The cosmology of Arthur F. Bentley, Am. Polit. Sci. Rev, 12/60; Computers in districting, In: Reapportioning legislatures: a consideration of criteria and computers, Merrill, 66; The Ohio fair housing law, In: The politics of fair housing, Chandler, 68. Address: Dept. of Political Science, Purdue University, West Lafayette, Ind. 47907.

HALE, PROF. ORON JAMES, Modern European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HALE, PRES. WILLIAM H(ENRI), b. Krebs, Okla, Aug. 8, 14; m. 40; c. 3. SOCIOLOGY. B.S, Langston, 40; M.A, Wisconsin, 41; Marshall Field fel. & Ph.D, Chicago, 49; hon. L.H.D, Okla. Sch. Relig, 64. Prof. soc. sci. & acting registr, Langston, 42, 43; prof. soc. sci. & admin. dean, Bethune-Cookman Col, 43-46; prof. sociol. & chmn. dept. soc. sci, Clark Col, 48-60; PRES, LANGSTON, 60- Carnegie fel, 49-50. Mem, Okla. State Cmn. Human Rights, 63-; cmn. college & univ, N.Cent. Asn. Col. & Sec. Schs, 65-; adv. cmt, U.S. Coast Guard Acad, 65-; Okla. State-wide Planning Cmt. Voc. Rehab. Prog, 66-; Okla. Small Bus. Adv. Coun, 66- Sociol. Asn. Race and culture; occupations and professions. Publ: They also serve; Negro lawyer and his clients, Phylon. Address: Langston University, Langston, Okla. 73050.

HALES, DR. WILLIAM M(ANSFIELD), b. Park City, Utah, July 9, 02; m. 23; c. 1. PSYCHOLOGY. B.A, Utah, 30, M.A, 31; Victor scholar, Stanford, 31; Thompson Mem. scholar, California, 31; Ph.D.(psychol), Minnesota, 49. Asst, dept. psychol, Utah, 30-31; Minnesota, 31-33; psychologist, div. res, State Bd. Control, Minn, 33-36, Dept. Pub. Insts, 36-42; chief clin. psychologist, Vet. Admin. Hosp, St. Cloud, 46-49; Minneapolis, 49-53; area chief

psychologist, Vet. Admin. Area Med. Off, St. Paul, Minn, 53-56; consult. psychologist, region VII, U.S. Pub. Health Serv, 56-65; CLIN. PROF. PSYCHOL, SOUTHWEST. MED. SCH, TEXAS, 62- Lectr, Minnesota, 32-33, asst. clin. prof, 49. Consult, State Youth Cmn, Minn, 48-53. U.S.A, 42-46, Lt. Col. Fel. Psychol. Asn. Clinical and physiological psychology; delinquency. Publ: Recent advances in rehabilitation of the delinquent individual; Minnesota multiphasic personality patterns before and after insulin shock therapy, Am. J. Psychiat; co-auth, Capacity of skeletal muscle in rats to maintain work out-put, Am. J. Physiol. Address: 629 Kirkwood Place, La Jolla, Calif. 92037.

HALEY, ANDREW GALLAGHER, Law, see 10th ed, Soc. & Behav. Vols, deceased 66.

HALEY, PROF. B(ERNARD) F(RANCIS), b. St. John, N.B, Aug. 26, 98; nat. ECONOMICS. A.B, Stanford, 22, A.M, 23; A.M, Harvard, 26, Ph.D, 33. Instr. ECON, STANFORD, 24-25, asst. prof, 26-31, assoc. prof, 31-34, prof, 34-63, EMER. PROF, 63-, head dept, 31-41, 45-48. Lectr, California, 34-35; vis. prof. California, Berkeley, 63-65, prof. Santa Cruz, 65-68. With Off. Price Admin, 42-43; U.S. Dept. State, 43-45. Econ. Asn.(managing ed, Am. Econ. Rev, 52-62); Royal Econ. Soc. Economic theory; business cycles. Publ: Ed, Survey of contemporary economics, Vol. II; auth, Value and distribution, In: Survey of contemporary economics, Vol. I. Address: 638 Salvatierra St, Stanford, Calif. 94305.

HALEY, RUSSELL I(RVING), b. Cleveland, Ohio, May 1, 22; m. 48; c. 2. MARKETING, STATISTICS. M.B.A, Columbia, 48, A.B, Col. Wooster, 46. Mkt. analyst, Cowan & Assocs, 48; sr. res. analyst econ. res, Fed. Reserve Bank, 49-51; mkt. analyst, Elec. Storage Battery Co, 51-53; mkt. res. dir, Am. Greetings Corp, 53-57; v.pres. & assoc. res. dir. dept. mkt. & res, Grey Advert, Inc, N.Y, 56-67; V.PRES. & CORP. RES. DIR. MKT. RES, D'ARCY ADVERT. CO, NEW YORK, 67- U.S.A, 43-46. Statist. Asn.(secy-treas, 55, pres, 56); Mkt. Asn; Asn. Pub. Opinion Res. Economics. Address: 55 Orchard Dr, Greenwich, Conn. 06830.

HALFOND, DR. MURRAY M(ICHAEL), Speech Pathol, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

HALL, DR. ALBERT C(HARLES), b. Jackson, Mich, Feb. 13, 12; m. 40; c. 2. ENGINEERING PSYCHOLOGY. A.B, Asbury Col, 34; M.A, Kentucky, 38; Ed.D.(ed. psychol), California, Los Angeles, 56. Prin, New Bethel Indian Sch, 34-35; teacher, pub. sch, N.C, 35-36; Ky, 36-43; res. psychologist, U.S. Navy Electronics Lab, 46-51, sect. head, human eng. br, 51-57; HUMAN FACTORS ENGR, INT. BUS. MACH. CORP, 57-, MGR. HUMAN FACTORS ENG, 60- Instr, Lafayette Trade Sch, 42-43. U.S.N.R, 43-46, Res, 46-, Lt. Comdr. Psychol. Asn; Opers. Res. Soc; Human Factors Soc; Inst. Elec. & Electronics Eng. Electronic training devices; data processing systems; problem-solving; military psychology; human engineering; computer programming; automated teaching; keyboard input devices. Address: 2650 Thrasher Lane, San Jose, Calif. 95125.

HALL, DR. ALFRED EDWARD, b. Jersey City, N.J, May 11, 36; m. 59; c. 3. PSYCHOLOGY. B.A, Rutgers, 58; M.A, Iowa, 60; M.A, Princeton, 62, Ph.D. (psychol), 63. ASST. PROF. PSYCHOL, Carnegie Inst. Tech, 63-66; COL. WOOSTER, 66- Psychol. Asn; Ed. Res. Asn. Psychometrics; mathematical psychology; cognition; educational and psychological measurement. Publ: Co-auth, Comparison of three inices of item discrimination over groups of different average ability levels, Am. Ed. Res. J, 63-64. Address: Dept. of Psychology, College of Wooster, Wooster, Ohio 44691.

HALL. PROF. A(RCHIBALD) STUART, b. Springfield, Ill, Oct. 2, 07; m. 47; c. 2. ECONOMICS. B.S, Illinois, 46, M.S, 49, Ph.D, 51. From asst. to asst. prof. ECON, Illinois, 47-56; PROF. & CHMN. DEPT, NEBRASKA, 56-Woods fel. 65-66; lectr. Switz. & Italy, 65. U.S.A, 42-45. Taxation; business finance; evolution of economic systems. Publ: Faith and fact in economics & On the regressiveness of the Illinois revenue system, Current Econ. Comment; Malthus and money, J. Econ. & Bus, 11/66. Address: Dept. of Economics, University of Nebraska, Lincoln, Nebr. 68508.

HALL, BENNY B, Electronic Eng, Polit. Sci, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HALL, PROF. BERNARD, b. Brooklyn, N.Y, May 7, 25; m. 54. ECONOMICS. B.A, Brooklyn Col, 48; Ph.D.(econ), California, 55. Asst. econ. statist, California, 48-51, inst. indust. rel, 51-53; asst. prof. econ, Humboldt State Col, 53-57; asst. prof. mgt, Kent State, 57-58; asst. prof. bus. admin. & ed, Fresno Facts & Trends, Fresno State Col, 58-60; assoc. prof. econ. statist, KENT STATE, 60-66, PROF, 66-, DEAN COL. BUS. ADMIN, 65-, acting head dept. indust. prog, 60-61, dir. bur. econ. & bus. res, 60-62, dir. master bus. admin. prog, 62-64, chmn. dept. econ, 64-65. U.S.A, 43-46. Econ. Asn; Statist. Asn. Relationship between state spending, taxation and economic growth. Publ: Real income growth in the United States, California, and Fresno County; Trend of state spending in California, 1942-1956, Fresno Facts & Trends. Address: College of Business Administration, Kent State University, Kent, Ohio 44240.

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HALL, PROF. CARL R(AY), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

HALL. PROF. CHALLIS A(LVA), JR, b. Kansas City, Kans, Sept. 1, 17; c. 39. ECONOMICS. B.S, Kansas, 38; A.M. & Ph.D, Harvard, 43. Asst. instr. ECON, Kansas, 38-39; instr, Harvard, 39-43, 46-47; asst. prof, YALE, 47-54, assoc. prof, 54-63, PROF, 63- Fund Adv. Ed. faculty fel, 53-54; res. assoc, Nat. Bur. Econ. Res, 61-62. Consult, tax anal. staff, U.S. Treasury Dept, 51-58. U.S.A, 43-46, Capt. Econ. Asn; Tax Inst; Royal Econ. Soc. Government finance; theory. Publ: Fiscal policy for stable growth; Effects of taxation: executive compensation and retirement plans, Harvard Bus. Sch. Address: Dept. of Economics, Yale University, New Haven, Conn. 06471.

HALL, DR. CHARLES P(OTTER), JR, b. Milwaukee, Wis, July 7, 32; m. 56; c. 4. ECONOMICS, INSURANCE. B.B.A, Wisconsin, 54; Ph.D.(econ), Pennsylvania, 61. Asst. prof. risk & ins. Washington (Seattle), 61-64; asst. dir. dept. econ, Am. Med. Asn, 64-66; ASSOC. PROF. INS, TEMPLE, 66- Life Ins. Agency Mgt. Asn. fel, 63; co-prin. investr, Loman Found. Consult, John Liner Assocs, Inc, 67. U.S.A.F, 54-57, Capt. Econ. Asn. Health insurance and economics. Publ: Special risks health insurance; partial solution to growing bodily injury awards?, 3/64 & Deductibles in health insurance: an evaluation, 6/66, J. Risk & Ins; The future of health insurance prepayment and medicine: a view of 1985, Mich. Med, 1/67. Address: Dept. of Insurance, School of Business Administration, Temple University, Philadelphia, Pa. 19122.

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HALL, DR. DAVID S(TANLEY), b. Glenville, W.Va, Aug. 14, 35; m. 59; c. 2. SOCIOLOGY. A.B, Glenville State Col, 59; M.A, Kent State, 61; Ph.D. (sociol), Kentucky, 66. Teacher, high sch, 59-60; instr. MED. SOCIOL, MED. CENTER; KENTUCKY, 64-66, ASST. PROF, 66- Med.C, U.S.A. 55-57 Sociol. Asn. Professionalization of dental and medical students; communication within medical settings; social stratification. Address: Dept. of Behavioral Science, University of Kentucky Medical Center, Lexington, Ky. 40506.

HALL, DR. DOUGLAS THOMPSON, b. Plainfield, N.J, June 30, 40; m. 65. MANAGEMENT SCIENCE. B.S, Yale, 62; S.M, Mass. Inst. Tech, 64, Ph.D. (mgt), 66. ASST. PROF. ADMIN. SCI, YALE, 66- Psychol. Asn. Role transitions into professional careers and subsequent post-transitional career development. Publ: Co-auth, Socialization of managers: effects of expectations on performance, Admin. Sci. Quart, 9/66; Student image of the teacher, Appl. Behav. Sci, fall 67; Examination of Maslow's need hierarchy in an organizational setting, Orgn. Behav. & Human Performance, 2/68. Address: Dept. of Administrative Sciences, Yale University, 1303A Yale Station, New Haven, Conn. 06520.

HALL, DR. EDWARD T(WITCHELL), b. Webster Groves, Mo, May 16, 14; m. 46; c. 2. ANTHROPOLOGY. A.B, Denver, 36; M.A, Arizona, 38; Ph.D. (anthrop), Columbia, 42. Staff dendrochronologist, Awatovi exped, Harvard, 38-39; west. rep, dept. anthrop, Columbia, 40, exped. dir, 41; anthropologist econ. surv, U.S. Commercial Co, 46; chmn. dept. anthrop, Denver, 46-48; mem. soc. studies faculty, Bennington Col, 48-50; prof. anthrop, for. serv. inst, U.S. Dept. State, 50-55; pres, Overseas Training & Res, Inc, 55-60; dir. commun. res, Wash. Sch. Psychiat, 60-63, fel, 50-56; PROF. ANTHROP, Ill. Inst. Tech, 63-67; NORTHWESTERN, 67- Res. grants, Nat. Inst. Ment. Health, 60-, Wenner-Gren Found, 61-65, Human Ecology Fund, 64-65. Dep. dir. Wash. Off, Human Rel. Area Files, 55-57. Mem. staff, Monument Valley exped, Rainbow Bridge, 35; small grants cmt, Nat. Inst. Ment. Health, 62-65, cmt. metrop. ment. health, 66-; liaison mem, bldg. res. adv. bd, Nat. Acad. Sci, 64- C.Eng, U.S.A, 42-45. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; fel. Soc. Appl. Anthrop.(secy, 60-63); fel. Soc. Am. Archaeol; fel. Tree-Ring Soc. Intercultural communication; selection and training of Americans for foreign service; theory of culture; proxemics, man's perception and use of space. Publ: The silent language; The hidden dimension, Doubleday, 66; Silent language in overseas business, Harvard Bus. Rev. Address: 1218 Astor St, Chicago, Ill. 60610.

HALL, DR. EVERETTE E(ARL), JR, b, Miami, Fla, Dec. 16, 25. PSYCHOLOGY. B.B.A, Miami (Fla), 52; Off. Voc. Rehab. fel, Florida, 59-60, M.R.C, 60, Ph.D.(psychol), 63. Acct. mgr, Claughton Theatres, Fla, 52-55; res. asst. soc. sci, family study center, Chicago, 57-59; teaching asst, FLORIDA, 60-61, res. assoc. PSYCHOL, STUDENT MENT. HEALTH PROJ, 62-66, CO-DIR. PROJ, 66-, ASSOC. PROF, UNIV, 67-, asst. prof, 66-67. U.S.A, 55-57, Sgt. AAAS; Am. Psychol. Asn; Interam. Soc. Psychol. College mental health; developmental psychology; late adolescence; family constellation; ordinal position. Publ: Co-auth, Attitudinal structures of older and younger siblings, 20: 59-63, 64 & auth, Ordinal position and success in engagement and marriage, 21: 154-58, 65, J. Individual Psychol; The role of research in prevention, J. Am. Col. Health Asn, 10/66. Address: 1128 S.W. Sixth Ave, Gainesville, Fla. 32601.

HALL, DR. FRANKLIN P(ORTER), b. Grand Rapids, Mich, June 26, 07; m. 37; c. 1. ECONOMICS. A.B, Oregon, 29; scholar, Wisconsin, 30-31, A.M, 31, fel, 32-33, Ph.D, 45. Asst. econ, Oregon, 29-30; Wisconsin, 31-32, 33-34; field rep, div. corrections, State Dept. Pub. Welfare, Wis, 34-38, statistician, 39; dir. tax res, State Dept. Commerce, 38-39; vital statist. index, State Bd. Health, 39-40; assoc. prof. econ, Franklin Col, 40-42; Miami (Ohio), 42-43; economist, bur. agr. econ, U.S. Dept. Agr, D.C, 43-45; econ. analyst, Bur. For. & Domestic Commerce, 45-46; assoc. prof. econ, Clark, 46-48; prof, Conn. Col, 48-51; chief economist, Off. Price Stabilization, 51-53; economist, Fed. Reserve Bank, Mass, 53-55; econ. adv, Fed. Power Cmn, 55-60, financial economist, 60-61, economist, 61-62; economist & head natural gas div, Nat. Coal Asn, 62-63; minerals economist, U.S. Bur. Land Mgt, U.S. DEPT. INTERIOR, 64-66, ECONOMIST, U.S. BUR. MINES, 66- Vis. prof, Trinity Col.(Conn), 52-53; Boston, 54-55; prof. lectr, George Washington, 57-61. Consult, State Develop. Cmn, Conn, 53. Econ. Asn; Asn. Evolutionary Econ; Inst. Min, Metall. & Petrol. Eng. Employment expansion; New England foreign trade; regulation of the natural gas industry; oil and gas depletion allowances under Federal income taxation; state en-

ergy balances in electric utility industry. Publ: Taxation in Indiana; New England economy; Natural gas field prices. Address: 10332 Parkman Rd, Silver Spring, Md. 20903.

HALL, DR. GEORGE R(OBERT), b. Pasadena, Calif, Sept. 30, 30; m. 60. ECONOMICS. B.A, Claremont Cols, 51; M.A, Harvard, 53, fel, 57-59, Ph.D. (econ), 60. Asst. prof. econ, Virginia, 59-63; ECONOMIST, Bd. Gov, Fed. Reserve Syst, 63-64; RAND CORP, 64- U.S.N, 54-57, Lt.(jg). Econ. Asn. Public policy towards business, particularly those industries exempted from anti-trust laws; defense procurement and the defense industries. Publ: Conservation as a public policy goal, Yale Rev; co-auth, Good faith, discrimination and market organization, 10/63 & auth, Bank holding company regulation, 4/65, South. Econ. J. Address: Rand Corp, 1700 Main St, Santa Monica, Calif. 90406.

HALL, PROF. H(ARRY) LAWRENCE, b. Riverside, Calif, Oct. 9, 15; m. 41; c. 1. BUSINESS MANAGEMENT, ECONOMICS. B.S, Columbia, 39, M.A, 43; Ph.D.(econ), Southern California, 60. Indust. engr, Merck & Co, Inc, N.J, 43-44; Trans World Airlines, Inc, Mo, 44-45; Sr. indust. engr, methods eng. coun. div, H.B. Maynard & Co, Inc, Pa, 45, 47-49; personnel mgr, H.D. Lee Co, Inc, Mo, 46; assoc. prof. indust. eng. & head dept, Wichita, 49-54; assoc. prof. indust. mgt, Southern California, 54-61; Los Angeles State Col, 61-67; PROF. MGT, CALIF. STATE COL. LOS ANGELES, 67- Consult, human factors div, sch. dent, Southern California, 58-60; grad. sch. bus. admin, Karachi, Pakistan, 61. Econ. Asn; Inst. Indust. Eng; Soc. Adv. Mgt; Acad. Mgt; Acad. Polit. & Soc. Sci. Industrial management; worker interest in non-money-wage factors; status as a management tool in wage differential considerations. Publ: Report on the coliseum and sports arena, Los Angeles. Address: Dept. of Business & Economics, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

HALL, DR. HARRY S(AMUEL), b. West New York, N.J, May 8, 22; m. 48; c. 1. POLITICAL SCIENCE. A.B, Harvard, 43; California, Los Angeles, 49-51; M.A, Chicago, 53, cmt. behav. sci. fel, 53-54, Ph.D.(polit. sci), 61. Res. asst, soc. sci. div, Rand Corp, 48-51; instr. polit. sci, Temple, 58-61, asst. prof, 61-65; GOVT, CALIF. STATE COL. LOS ANGELES, 65-67, ASSOC. PROF. & CHMN. DEPT, 67- U.S.N, 43-46, Lt.(jg). Polit. Sci. Asn. Science and government; labor and politics; religion and politics. Publ: Scientists and politicians, Bull. Atomic Scientists, 2/56. Address: 1212 S. Sierra Vista, Alhambra, Calif. 91801.

HALL, DR. JAY b. Houston, Tex, Oct. 18, 32; m. 64; c. 2. PSYCHOLOGY. B.A, Texas, 59, M.A, 61, Ph.D.(psychol), 63. Assoc. dir. decision-making training, Nat. Parole Inst, 63-64; dir. law & behav. sci, Southwest Center Law & Behav. Sci, 64-66; ASSOC. PROF. MGT, TEXAS, 66- U.S.A, 55-58, 1st.Lt. Psychol. Asn; Acad. Polit. & Soc. Sci. Group decision making; social perception; conflict resolution; concept formation; test construction. Publ: Co-auth, The decision-making grid, Calif. Mgt. Rev. 12/64, A comparison of the decision-making performance of established and ad hoc groups, J. Personality & Soc. Psychol, 2/66 & The challenge of correctional change: the interface of conformity and commitment, J. Criminal Law, Corrections & Police Sci, 2/67. Address: B.E.B. 501, University of Texas, Austin, Tex. 78712.

HALL, PROF. JOHN D(ANFORTH), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

HALL, DR. JOHN DAVID, b. Birmingham, Ala, Mar. 22, 32; m. 56; c. 1. PSYCHOLOGY, RELIGION. B.S, Alabama, 54, B.D, Memphis Theol. Sem, 56; M.A, George Peabody Col, 59, Ed.D.(psychol), 64. Instr. ed, Fisk, 59-60; intern psychol, Nashville Ment. Health Center, 60-61, consult. relig. & ment. health, 61-62; prof. psychol. & dean students, BETHEL COL.(TENN), 62-65, V.PRES, 65- Consult, 61-62. Psychol. Asn. Psychological testing; student attitudes; clinical psychology. Address: Bethel College, McKenzie, Tenn. 38201.

HALL, PROF. JOHN F(RY), b. Philadelphia, Pa, Apr. 24, 19; m. 43; c. 1. PSYCHOLOGY. B.S, Ohio, 46; M.A, Ohio State, 47, Ph.D, 49. Asst. prof. PSYCHOL, PA. STATE, 49-53, assoc. prof, 53-58, PROF, 58- Summers, asst. prof, Virginia, 52, res. assoc, Wisconsin, 54, prof, California, Berkeley, 62. Prog. dir, Nat. Sci. Found, 66-67. U.S.A, 43-45, Sgt. Psychol. Asn. Areas of learning and motivation. Publ: Psychology of motivation; Psychology of learning, Lippincott, 66. Address: Dept. of Psychology, Pennsylvania State University, University Park, Pa. 16802.

HALL, PROF. J(OHN) OLIVER, b. Belle Fourche, S.Dak, Dec. 3, 05; m. 27; c. 5. SOCIAL SCIENCE. A.B, Cornell Col, 27; M.A, Northwestern, 33; summers, Chicago, 34, Minnesota, 39; Ed.D, Mich. State, 51. Instr. soc. sci, Ely Jr. Col, Minn, 36-43; dir. civil serv, St. Louis County, Minn, 43-44; indust. rels. analyst, Oliver Iron Mining Co, 44-45; PROF. SOC. SCI, MICH. STATE, 45- Dir. div. gen. studies & head dept. soc. sci, Univ. Nigeria, U.S. Agency Int. Develop. coop. contract, 66-67. Mem, Nat. Coun. Soc. Studies. Polit. Sci. Asn; Int. African Inst. Social science background of students; decision-making process; development in west Africa. Publ: Co-auth, American democracy; Social sciences series, Mich. State, 62; auth, Note on relationships between attitudes toward the scientific method and the background of seminarians, Social Forces. Address: 4556 S. Hagadorn Rd, East Lansing, Mich. 48823.

HALL, PROF. NASON E, b. San Francisco, Calif, Mar. 14, 34; m. 58. SOCIOLOGY. A.B, Sacramento State Col, 55; Nat. Inst. Ment. Health fel. & M.A, California, Los Angeles, 59, Ph.D, 62. Asst. SOCIOL, California, Los Angeles, 57-60; asst. prof, Illinois, 61-63; OHIO STATE, 63-67, ASSOC. PROF, 67- Statist. Asn; Sociol. Asn. Urban and political sociology. Address: Dept. of Sociology, Ohio State University, Columbus, Ohio 43210.

HALL, DR. OGDEN HENDERSON, b. Clayton, La, Nov. 8, 22; m. 48; c. 3. MANAGEMENT SCIENCE. B.S, La. State, 48, M.B.A, 61, Nat. Defense Ed. Act fel. & Ph.D.(mgt), 64. ASSOC. PROF. MGT, VA. POLYTECH, 63- U.S.A, 43-44; U.S.A.A.F, 44-45, 2nd Lt. Acad. Mgt; Inst. Mgt. Sci; Inst. Gen. Semantics. Organization theory; economics of firm; communications. Address: 1212 Highland Ave, Blacksburg, Va. 24060.

HALL, PROF. OSWALD, b. Can, Jan. 18, 08. SOCIOLOGY. B.A, Queen's (Ont), 35; M.A, McGill, 37; Ph.D, Chicago, 44. Instr, Brown, 39-44; res. assoc, Can. Dept. Labor, 44-46; PROF. sociol, McGill, 46-58; POLIT. ECON, TORONTO, 56- Vis. prof, Tulane, 55-56. Res. supvr, Royal Cmn. Bilingualism & Biculturalism, 64-66. Sociol. Asn; Can. Polit. Sci. Asn. Professions and social institutions. Publ: Stages of medical career and Types of medical career, Am. J. Sociol. Address: Dept. of Sociology, University of Toronto, Toronto, Ont, Can.

HALL, DR. RICHARD HAMMOND, b. Philadelphia, Pa, Oct. 6, 34; m. 58; c. 1. SOCIOLOGY. A.B, Denison, 56; M.A, Ohio State, 58, Ph.D.(sociol), 61. From Instr. to assoc. prof. SOCIOL, Indiana, 61-67; ASSOC. PROF, MINNESOTA, Minneapolis, 67- Sociol. Asn. Complex organizations, occupations and professions; bureaucracy. Publ: The concept of bureaucracy: an empirical assessment, Am. J. Sociol, 7/63 & translated for J. Sociol, Nihon Univ, Japan, 64; co-auth, Organizational size, complexity, and formalization, Am. Sociol. Rev, 12/67; auth, Professionalization and bureaucratization, Am. Sociol. Rev, 2/68. Address: Dept. of Sociology, University of Minnesota, Minneapolis, Minn. 55455.

HALL, DR. RICHARD LEE, b. Chickasha, Okla, Sept. 26, 31. PSYCHOLOGY, COUNSELING. B.A, Oklahoma, 53, Ed.M, 59, Ed.D.(ed. psychol), 65. Teacher, pub. schs, Okla, 56-60, counsr, 60-63, asst. prin. & counsr, 63-64, asst. res. dir, 64-65; asst. prof. PSYCHOL, SOUTHEAST. STATE COL, 65-, PROJ. DIR. UPWARD BOUND, 66- Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. Underachievement, including personality; disadvantaged youth and their educational progress; leisure; test anxiety. Publ: Co-auth, Temperament factors in high and low achieving high school seniors, Psychol. Reports, 60; auth, Follow-up study, class of 1960, Tulsa Sch. Rev, 64; co-auth, Chap, In: Psychology of Leisure, Philos. Library, (in press). Address: Dept. of Psychology, Southeastern State College, Durant, Okla. 74701.

HALL, RICHARD N(ORTH), b. Paw Paw, Mich, Dec. 21, 07; m. 28; c. 5. GEOGRAPHY. B.A, West. Mich. Col. Ed, 32; M.A, Michigan, 34. CHIEF REGIONAL RES, OFF. GEOG, U.S. DEPT. INTERIOR, 44- Chmn. bd. expert exams, U.S. Civil Serv. Cmn, 51- Asn. Am. Geog; Am. Name Soc. Geographic names and regional settlement. Publ: Guide to geographical names in Korea. Address: 5914 Wilmett Rd, Bethesda, Md. 20034.

HALL, PROF. ROBERT B(URNETT), Geog, see 10th ed, Soc. & Behav. Vols.

HALL, DR. ROBERT DILWYN, b. Philadelphia, Pa, Jan. 19, 29. PSYCHOLOGY. A.B, Dartmouth Col, 56; Nat. Sci. Found. fel, Brown, 56-59, M.A, 58, Ph.D.(psychol), 60. Instr. psychol, Brown, 59-60; Nat. Inst. Ment. Health res. fel, MASS. INST. TECH, 60-63, res. assoc. elec. eng, 63-68, MEM. STAFF, RES. LAB. ELECTRONICS, 68- Ord.C, 51-53, Sgt. AAAS; Psychol. Asn. Conditioning; role of the central nervous system in conditioning; sensory processes. Address: Research Lab. of Electronics, Room 20B-221, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

HALL, PROF. ROBERT L(ATANE), b. Atlanta, Ga, Feb. 25, 24; m. 57; c. 3. SOCIAL PSYCHOLOGY. B.A, Yale, 47; Stockholm, Sweden, 47-48; Scandinavian Area fel, Minnesota, 49-50, M.A, 50, Ph.D, 53. Asst. lab. res. soc. rel, Minnesota, 50-52, from asst. prof. to assoc. prof. sociol, univ, 57-62; res. soc. psychologist, crew res. lab, Air Force Personnel & Training Res. Center, Tex, 52-54, crew res. field unit, Fla, 54-56, systs. operator res. unit, Tex, 56-57; prog. dir. sociol. & soc. psychol, Nat. Sci. Found, 62-65; assoc. prof. sociol. & psychol, ILLINOIS, CHICAGO, 65-66, PROF, SOCIOL. & HEAD DEPT, 66-, asst. to dean faculties, 65-66. Participant, Summer Inst. Math. for Soc. Scientists, Michigan, 55. U.S.A.A.F, 43-45, T/Sgt. AAAS; Sociol. Asn; Psychol. Asn. Social interaction and learning; experimental sociology. Publ: Social influence on the aircraft commander's role; Group performance under feedback that confounds responses of group members; Educational influence of dormitory roommates, Sociometry, 63. Address: Dept. of Sociology, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

HALL, DR. ROBERT LEONARD, b. Green Bay, Wis, Feb. 8, 27; m. 58; c. 4. ANTHROPOLOGY. B.A, Wisconsin, 50, M.A, 51, Knapp fel, 54-55, Ph.D. (anthrop), 60; Thayer scholar, Harvard, 51-52. Curator anthrop, Wis. State Hist. Mus, 51-53; dir. & curator, Rock County Hist. Soc, Wis, 55-59; dir. Inst. Indian Studies, Univ. South Dakota, 59-61; res. assoc, Ill. State Mus. Soc, 61-62; curator ANTHROP, Ill. State Mus, 62-67; ASSOC. PROF, MARQUETTE, 67- Nat. Sci. Found. grants, 61-66. Lapham medal archaeol. res, 53. U.S.N.R, 45-46. Soc. Am. Archaeol.(asst. ed, Am. Antiquity, 63-67); fel. Anthrop. Asn. Archaeology and ethnology of Missouri and northern Mississippi valleys and Circum-Caribbean area; historic archaeology; prehistoric ceramics; demography, radiocarbon dating; cultural frontiers; the spread of nuclear civilization. Publ: The archeology of Carcajou Point, Univ. Wisconsin, 62; co-ed, Hopewellian studies, Ill. State Mus. Sci. Papers, Vol. 12, 65; A style analysis of Wisconsin Woodland pottery, Wis. Archeologist, 31: 1-42. Address: Dept. of Sociology & Anthropology, Marquette University, Milwaukee, Wis. 53233.

HALL, DR. R(OBERT) MEREDITH, b. Brooklyn, N.Y, Aug. 6, 37; m. 62; c. 1. CLINICAL PSYCHOLOGY. B.A, Texas, 60; cert, Austin State Hosp, 62; Dept. Health, Ed. & Welfare grant, Richmond Prfnl. Inst, 62-63, M.S, 64; Ph.D.(counseling), Maryland, 66. Psychiat. soc. worker, Austin State Hosp, Tex, 60-62; asst, Maryland, 63-65; instr. psychol, Frostburg State Col, 65-66, asst. prof, 66-67, psychotherapist, 65-67; CLIN. PSYCHOLOGIST, SALISBURY VET. ADMIN. HOSP, 67- Lectr. & consult, Pfieffer Col, 68- Personnel & Guid. Asn; Psychol. Asn. Psychotherapy; attitudinal relationships of therapist and client; personality theory; self theory; philosophy of science. Address: Salisbury Veterans Administration Hospital, Salisbury, N.C. 28144.

HALL, PROF. RUFUS G(EORGE), JR, b. Sherman, Tex, Dec. 12, 10; m. 44; c. 2. GOVERNMENT. B.A, Texas, 33, M.A, 35; Ph.D.(govt), Harvard, 48. Instr. GOVT, OKLAHOMA, 46-48, asst. prof, 48-52, assoc. prof, 52-58, PROF, 59-, chmn. dept, 50-58. Faculty adv, U.S. Dept. State, 67. U.S.A.A.F, 42-46. Polit. Sci. Asn. American foreign policy; international organization and relations. Publ: A lecture outline for American govern-

ment, McCutchan, 65; University of Oklahoma liberal studies program for adults, Cmt. Study Liberal Ed. Adults, 66. Address: 1031 Grover Lane, Norman, Okla. 73069.

HALL, DR. WALLACE B(ELDEN), b. Wallace, Idaho, Nov. 21, 14. PSYCHOLOGY, ANTHROPOLOGY. B.A, California, 50, M.A, 52, Ph.D.(psychol), 60. Asst. psychol, CALIFORNIA, BERKELEY, 50-53, grad. res. psychologist, INST. PERSONALITY ASSESSMENT & RES, 53-60, ASST. RES. PSYCHOLOGIST, 60- U.S.N.R, 42-46. AAAS; Psychol. Asn; Anthrop. Asn. Assessment of personality; personality correlates of creativity; personality and culture; ecological factors affecting personality, socialization processes; aesthetic values; prediction of performance in fields of architecture and medicine. Address: Institute of Personality Assessment Research, University of California, 2240 Piedmont Ave, Berkeley, Calif. 94720.

HALL, DR. WARREN CLAYTON, JR, b. Columbia, Mo, July 3, 32; m. 61; c. 2. ECONOMICS. B.S, Missouri, 54, A.M, 55, Ph.D.(econ), Illinois, 64. ASST. PROF. ECON, Ohio, 60-66; Ill. INST. TECH, 66- Econ. Asn; Statist. Asn. Resource allocation by local governments. Address: Dept. of Economics, Illinois Institute of Technology, Chicago, Ill. 60615.

HALL, DR. WILLIAM EDWARD, Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

HALL, PROF. W(ILLIAM) SCOTT, b. St. Davids, Pa, May 21, 05. ECONOMICS. A.B, Swarthmore Col, 27; A.M, Pennsylvania, 28; Ph.D, Hopkins, 34. Asst. prof. econ, West. Md. Col, 29-31; instr. Allegheny Col, 34-39; PROF. ECON. & SOCIOL. & HEAD DEPT. ECON, PSYCHOL. & SOCIOL, TRANSYLVANIA COL, 39-, dir, counseling, 46-62. Consult, Cmt. for Ky, 45-50. Econ. Asn. Manufacturing, especially in Kentucky. Address: Dept. of Economics, Transylvania College, Lexington, Ky. 40508.

HALL, PROF. WILLIS HERBERT, b. Quaker City, Ohio, July 7, 02; m. 41. POLITICAL SCIENCE. A.B, Wilmington Col, 24, hon. LL.D, 58; univ. scholar. & M.A, Cincinnati, 25; Biddle scholar. & univ. grants & Dr.polit. sci, Geneva, 38. PROF. HIST. & POLIT. SCI, WILMINGTON COL, 26-, chmn. dept, 28-63. Hist. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci. History of the Quakers; League of Nations and the United Nations; American foreign policy. Publ: Quaker international work in Europe since 1914, Am. Friends Serv. Cmt. Address: Dept. of History & Government, Wilmington College, Wilmington, Ohio 45177.

HALLAM, DR. JAMES A, b. Campus, Ill, June 18, 31; m. 53; c. 4. BUSINESS MANAGEMENT. B.S, Illinois State, 53, M.S, 55; Ford. Found. fel, Indiana, summer, 60; Ph.D.(bus), Iowa, 65. Teacher, high sch, Ill, 54-58; from instr. to assoc. prof. mgt, Eastern Illinois, 58-66, chmn. dept, 65-66; ASSOC. PROF. BUS. ADMIN, ILLINOIS STATE, 66- Consult, Carr Enterprises, Ill, 58- Data Processing Mgt. Asn; Soc. Automation Bus. Ed. Business education. Publ: Co-auth, Determining training needs, J. Am. Soc. Training Dirs, 6/62 & A training device—the cardizat—a simulated assembly line, Training Dirs. J. 1/64; auth, New dimensions for research in business education, J. Bus. Ed, 12/67. Address: Dept. of Business Administration, College of Business, Illinois State University, Normal, Ill. 61761.

HALLBERG, DR. MILTON C(HARLES), b. Monmouth, Ill, Apr. 14, 36; m. 55; c. 1. AGRICULTURAL ECONOMICS. B.S, Illinois, 60, M.S, 61; Ph.D.(agr. econ), Iowa State, 65. ASST. PROF. AGR. ECON, PA. STATE, 65- Agr. Econ. Asn; Economet. Soc; Econ. Asn. Econometrics as applied to agricultural marketing and price analysis. Address: Dept. of Agricultural Economics, Pennsylvania State University, University Park, Pa. 16802.

HALLE, PROF. LOUIS J(OSEPH), Govt, see 10th ed, Soc. & Behav. Vols.

HALLENBECK, DR. CHARLES EDWARD, b. Hudson, N.Y, Oct. 1, 30; m. 55; c. 2. PSYCHOLOGY. B.A, Union (N.Y), 52; M.A, Western Reserve, 57, Ph.D.(psychol), 60. Intern clin. psychol, Cleveland State Hosp, 56-58; res. psychologist, Highland View Hosp, 58-61, chief psychologist, 64-67; res. psychologist, Western Reserve, 61-64; RES. FEL. COMPUT. SCI, WASHINGTON (ST. LOUIS), 67- Psychol. Asn. Computer applications in psychological research; rehabilitation of the chronically ill; effects of aging or brain damage on intellectual processes, especially time perception. Publ: Evidence for a multiple process view of mental deterioration, J. Geront, 7/64; co-auth, Importance of time and its subjective speed, J. Perceptual & Motor Skills, 65; auth, Measurement of intellectual inefficiency, Psychol. Reports, 65. Address: Apt. 1 N, 705 Interdrive Ave, St. Louis, Mo. 63130.

HALLENBECK, DR. PHYLLIS NEWTON, b. New York, N.Y, Nov. 15, 21; m. 55; c. 2. PSYCHOLOGY. B.S, Kent State, 44; M.A, Western Reserve, 55, Ph.D.(psychol), 64. Asst. psychol, Western Reserve, 57-59; instr, exten. prog, Kent State, 59; Lake Erie Col, 60-61; res. asst, Western Reserve, 61-62; res. assoc. rehab, Voc. Guid. & Rehab. Serv, Cleveland, Ohio, 64-66; CLIN. PSYCHOLOGIST & RES. DIR, LAKE COUNTY MENT. HEALTH CLIN, MENTON, 66- Dir, Flowerledge Sch. Retarded, 46-; clin. psychologist, Lake County Ment. Health Clin, 59-64; lectr, Cuyahoga County Community Col, 65-66; Lake Erie Col, 67-; Lakeland Community Col, 67- Psychol. Asn; Asn. Ment. Deficiency. Brain damage in children and adults; projective techniques; acceptance of chronic disease or disability. Publ: Special clothing for the handicapped, Rehab. Lit, 66; co-auth, A conceptual framework for work adjustment training, J. Counseling Psychol, 66; auth, Dogmatism and visual loss, Res. Monogr. 17, Am. Found. Blind, 67. Address: 4805 Wood St, Willoughby, Ohio 44094.

HALLENBECK, PROF. WILBUR C(HAPMAN), b. New York, N.Y, Dec. 9, 02; m. 18; c. 1. SOCIOLOGY. B.A, Occidental Col, 15; Princeton Theol. Sem, 18; B.D, San Francisco Theol. Sem, 31; M.A, Columbia, 34, Ph.D, 35. Asst. prof. ED, TEACHERS COL, COLUMBIA, 35-40, assoc. prof, 40-46, prof, 46-58, EMER. PROF, 58- Vis. prof. British Columbia, 60-61, Michigan, spring, 63; Wisconsin, spring, 64. Consult, 42-55; LAQUEMAC Can. Training Community Leaders, summers, 41-47; U.S. Army Mil. Govt. Korea, June 48; inst. soc. res, Natal, 55. Emer. fel, Sociol. Asn; Adult Ed. Asn. American cities; adult education; the community. Publ: Urban organization of Protestantism; American urban communities; co-auth, American society, urban or rural patterns. Address: 36 Seapit Rd, East Falmouth, Mass. 02536.

HALLER, PROF. ARCHIBALD O(RBEN), b. San Diego, Calif, Jan. 15, 26; m. 47; c. 2. SOCIOLOGY. B.A, Hamline, 50; M.A, Minnesota, 51; univ. fel, Wisconsin, 52-53, Knapp fel, 53-54, Ph.D.(sociol), 54. Asst. rural sociol, Minnesota, 51; Wisconsin, 51-52, proj. assoc, 54-56; assoc. prof. sociol. & anthrop, Mich. State, 56-62, PROF, sociol, 62-65; RURAL SOCIOL. & SOCIOL, WISCONSIN, 65- Fulbright prof, Rural Univ, Brazil, 62-63. Consult, Inter-Am. Inst. Agr. Sci, 59; Orgn. Am. State consult, Brazil, 63; consult, U.S. Dept. Labor, 64; U.S. Off. Ed, 64-67; Brazilian Inst. Agrarian Reform, 65; Nat. Cmn. Rural Poverty; Nat. Insts. Health, 67. U.S.N.R, 43-46. Fel. Sociol. Asn; Rural Sociol. Soc.(v.pres, 65-66); Psychol. Asn; Soc. Int. Develop; Soc. Psychol. Study Social Issues. Social psychology; rural sociology; psychology of social mobility; social structure and personality; social stratification. Publ: Co-auth, Occupational aspiration scale: theory, structure and correlates, Mich. State Exp. Sta, 63, A program of research on food for peace, Econ. & Agr. Res. Inst, Mich. State, 66 and Hypothesis of intersocietal similarity in occupational prestige hierarchies, Am. J. Sociol. 9/66. Address: Dept. of Rural Sociology, University of Wisconsin, Madison, Wis. 53706.

HALLER, DR. WILLIAM, JR, b. New York, N.Y, Aug. 11, 14; m. 37; c. 2. ECONOMICS. A.B, Amherst Col, 36; M.A, Columbia, 38, Ph.D.(econ), 49. Instr. hist. & econ, Newcomb Col, Tulane, 39-41; ECON, Vermont, 41-43; asst. prof, Massachusetts, 46-56; prof, Dickinson Col, 56-58; ASSOC. PROF, RHODE ISLAND, 58- Ed, Consumer News, 55-56. U.S.N.R, 43-46, Lt.(jg). Economic history of the United States; government and business. Publ: The Puritan frontier, town-planning in New England colonial development, 1630-1660, Columbia, 51. Address: Dept. of Economics, University of Rhode Island, Kingston, R.I. 02881.

HALLETT, DR. GEORGE H(ERVEY), JR, b. Philadelphia, Pa, May 24, 95; m. 22, 32; c. 2. POLITICAL SCIENCE. B.A, Haverford Col, 15; Cope fel. from Haverford Col. & M.A, Harvard, 16; Harrison fel. & Ph.D.(math), Pennsylvania, 18. Assoc. secy, Nat. Munic. League, 32-33; EXEC. SECY, CITIZENS UNION, 34-, LEGIS. REP, 67- Instr, Brooklyn Col, Hunter Col, City Col. New York & N.Y. Univ, 40-43. Consult, N.Y. State Joint Legis. Cmt. Multiple Dwellings, 44-46; Uniform County Laws Cmn, 51-52; State Cmn. Govt. New York City, 53-54, 60. Asst. secy, Proportional Representation League, 19-26, exec. secy, 26-; mem. prep. cmt. of 1938 N.Y. State Constitutional Convention, 37-38, res. assoc, N.Y. State Convention, 67-; dir. res, Citizens Union Res. Found, 49-; mem, Mayor's Cmt. Mgt. Surv, New York, 50-53. Polit. Sci. Asn; Govt. Res. Asn. Election methods, especially proportional representation; city charter and legislative drafting; housing standards. Publ: Proportional representation, the key to democracy; co-auth, Proportional representation. Address: 235 E. 22nd St, New York, N.Y. 10010.

HALLETT, DR. WINSLOW N(ICHOLS), b. Lansdowne, Pa, Dec. 5, 07; m. 29; c. 1. PSYCHOLOGY, MATHEMATICS. A.B, Pennsylvania, 28, A.M, 30, Ph.D.(psychol), 32; Muhlenberg Col, 38-39; N.Y. State Teachers Col, 40-41. Asst. instr. psychol, Pennsylvania, 28-31, instr, 31-32; prof. psychol. & math. & head dept. math, Cedar Crest Col, 32-35; teacher adult ed, Lehigh County Adult Ed. Prog, Pa, 36-39; intern, psychol. clin, pub. schs, Allentown, Pa, 39; mem. staff, Citizens Bur. Govt. Res, Inc, N.Y, 39-41; instr. elem. ed. & math, Md. State Teachers Col.(Frostburg), 41-42; civilian mil. govt. officer, Germany, 47-49; historian, hist. div, European Command, 49-50; acad. adv, U.S. Air Force Acad, Germany, 50-51; dir. training & testing, Goodwill Industs, Pa, 53-54; ed. counsr, encyclop. div, Sears, Roebuck & Co, 54-59; FIELD UNDERWRITER, PITTSBURGH GEN. OFF, N.Y. LIFE INS. CO, 60- U.S.A, 42-47, Capt. Psychol. Asn; Math. Soc; Math. Asn. Gestalt psychology; government; military psychology; insurance. Address: Suite 340, Four Gateway Center, Pittsburgh, Pa. 15222.

HALLEY, PROF. DONALD M(ACDOUGALL), Bus. Admin, Finance, see 10th ed, Soc. & Behav. Vols.

HALLIBURTON, PROF. RUDIA, JR, Am. Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HALLIDAY, DR. ROBERT W(AYNE), b. Cleveland, Ohio, Apr. 18, 18; m. 39; c. 5. PSYCHOLOGY. B.Sc, Ohio State, 39, M.A, 41, Ph.D.(psychol), 48. From instr. to asst. prof. psychol, Col. Wooster, 46-48; instr, Ohio State, 48-51, dir. res, occup. opportunities serv, 48-51; counseling clin, Ohio Penitentiary, 51-58; counseling psychologist, Vet. Admin. Hosp, Chillicothe, Ohio, 58-60; vis. lectr. PSYCHOL, Ohio Wesleyan, 60-61; ASSOC. PROF, WILMINGTON COL.(OHIO), 61- Personnel consult, U.S.A, 42; U.S.A.A.F, 42-45. Psychol. Asn. Interviewing. Address: 321 High St, Wilmington, Ohio 45177.

HALLIN, DR. RICHARD RAY, b. Mt. Clemens, Mich, Nov. 30, 40; m. 64; c. 1. POLITICAL SCIENCE. B.A, Occidental Col, 62; Rhodes scholar, Oxford, 62-64, B.A. & M.A, 64; Danforth fel, Columbia, 64-68, Herbert H. Lehman fel, 66-67, Ph.D.(polit), 68. ASST. PROF. POLIT. & ASST. DEAN COL, FORDHAM, 68- Polit. Sci. Asn. Politics of metropolitan areas, especially in relation to the provision of urban transportation services. Address: 51 Fieldstone Dr, Apt. 61, Hartsdale, N.Y. 10530.

HALLINAN, DR. TIMOTHY, b. London, Eng, July 31, 24; U.S. citizen; m. 58; c. 1. ECONOMICS, POLITICAL SCIENCE. A.B, Harvard, 46; Carnegie Commonwealth grant, Oxford, 52-53, D.Phil, 54. Tutor int. orgns, Ruskin Col, Oxford, 54-56; lectr. polit. sci. & hist, Univ. Maryland European Div, Heidelberg, Germany, 56-59 & asst. prof, Far East Div, Tokyo, Japan, 59-63; prog. economist, U.S. Aid Mission, Seoul, Korea, 63-65, chief finance sect, Saigon, Vietnam, 65-66; spec. asst. int. security affairs, Far East. Bur, Agency Int. Develop, Dept. State, D.C, 66-67; MEM. STAFF ECON. DEPT, RAND CORP, 67- Lectr. & participant seminars, Korean Res. Center, Seoul, 60, Univ. Tokyo, Japan, 60, Univ. Kyoto, 61, Nat. Univ. Korea, 65, nat. interdept. seminar, For. Serv. Inst, Dept. State, D.C, 67. Acad. Polit. & Soc. Sci; Acad.

Polit. Sci; Am. Polit. Sci. Asn; Am. Econ. Asn; Nat. Planning Asn; Asn. Study Soviet-Type Econ; Asn. Comp. Econ; Agr. Econ. Asn; Rural Sociol. Soc; Am. Econ. Hist. Asn; Asn. Asian Studies; Hist. Asn; Inst. Strategic Studies; Royal Econ. Soc; Brit. Econ. Hist. Soc; Int. Polit. Sci. Asn. National security affairs; international relations; theory of economic development; comparative economic history; economic and political development of Asia; American foreign policies and air programs. Publ: English land-ownership: the new gentry of the sixteenth and early seventeenth centuries, 61 & Insurgency and protest as a function of the developmental process, Tochiseidoshigakai; The rise of commercial agriculture in England, 1465-1600, Meiji Univ. Hist. J, 3/61. Address: Economics Dept, Rand Corp, 1700 Main St, Santa Monica, Calif. 90406.

HALLMAN, PROF. G(EORGE) H(ARLAN), b. Moose Lake, Minn, July 8, 13; m. 41; c. 2. SOCIAL SCIENCE. B.S, Minnesota, 34, M.A, 46, Ph.D, 57. Instr. soc. sci, LOUISVILLE, 46-57, asst. prof. 57-60, assoc. prof, 60-63, SOCIOL, 61-63, PROF, 63-, CHMN. DIV. SOC. SCI, 66- Mem. Nat. Coun. Soc. Studies. U.S.A, 43-45. Sociol. Asn; Acad. Polit. & Soc. Sci. General and teacher education in social sciences; population problems; urban and educational sociology. Publ: Co-auth, An evaluation of the Louisville community action program, urban studies center, Univ. Louisville, 67; University of Louisville: progress report on social science, In; Social science in general education. Address: 434 Windemere Rd, Clarksville, Ind. 47130.

HALLOCK, DR. GEORGE A, b. North Branch, Mich, Nov. 12, 15; m. 40; c. 4. PSYCHOLOGY. B.A, Carleton Col, 37; M.Ed, Wayne State, 48, Ed.D.(counseling & guid), 58. Teacher, Marion Bd. Ed, Mich, 37-38, prin, 38-43; teacher, Detroit Bd. Ed, Mich, 43-44; psychologist, Highland Park Bd. Ed, Mich, 46-50; DIR. PUPIL PERSONNEL, Highland Park Bd. Ed, Mich, 51-64; BIRMINGHAM BD. ED, MICH, 64- U.S.N, 44-45. Psychol. Asn; Personnel & Guid. Asn; Coun. Except. Children; Royal Soc. Health. Education; attitudes affecting school achievement; educational programs for emotionally disturbed and socially maladjusted; vocational training for mentally retarded; educational planning in changing communities. Publ: Coordinated counseling at Highland Park; Mentally retarded have special abilities; Special services in Highland Park schools. Address: 80 Farrand Park, Highland Park, Mich. 48203.

HALLOWELL, PROF. A(LFRED) IRVING, b. Philadelphia, Pa, Dec. 28, 92; m. 42. ANTHROPOLOGY. B.S, Pennsylvania, 14, M.A, 20, Harrison fel, 22-23, Ph.D.(anthrop), 24, hon. Sc.D, 63. Instr. ANTHROP, Pennsylvania, 22-27, asst. prof, 27-36, assoc. prof, 36-39, prof, 39-44, chmn. dept, 41-44; PROF, Northwestern, 44-47, PENNSYLVANIA, 47-, PROF. ANTHROP. IN PSYCHIAT, MED. SCH. & CURATOR SOC. ANTHROP, UNIV. MUS, 56- Guggenheim fel, 40-41; Walker-Ames lectr, Washington (Seattle), 59; vis. prof, Wisconsin, 65-66; Mary Helen Marks vis. prof, Chatham Col, 67-68. Ed, pubs, Wenner-Gren Found, 50-55. Chmn. div. anthrop. & psychol, Nat. Acad. Sci, Nat. Res. Coun, 46-49; mem. corp, Soc. Sci. Res. Coun. Viking medal & award gen. anthrop, Wenner-Gren Found, 55. Nat. Acad. Sci; Philos. Soc; Anthrop. Asn.(secy, 27-30, pres, 49); Soc. Appl. Anthrop; Soc. Proj. Tech.(pres, 50). Personality and culture; American Indians; social organization. Publ: Bear ceremonialism in the Northern Hemisphere; Role of conjuring in Saulteaux society; Culture and experience. Address: 401 Woodland Ave, Wayne, Pa. 19087.

HALLOWELL, PRES. BURTON C(ROSBY), b. Orleans, Mass, May 2, 15; m. 41; c. 1. ECONOMICS. A.B, Wesleyan, 36, A.M, 38; Soc. Sci. Res. Coun. fel, Princeton, 40-41, Ph.D, 49. Asst. prof. econ, Wesleyan, 46-50, assoc. prof, 50-56, prof, 56-67, v.pres, 61-65, exec. v.pres, 65-67; PRES, TUFTS, 67- Economist, Off. Strategic Servs, D.C, 42. Econ. consult, Conn. Gen. Life Ins. Co, 49-61; Cmt. Econ. Develop, 53-54; Cmn. on Money & Credit, N.Y, 60-61. Soc. Sci. Res. Coun. demobilization award, 46-47; Merril Found. res. award, 55-56. U.S.A, 42-46, Capt. Econ. Asn; Finance Asn; Statist. Asn; Can. Polit. Sci. Asn; Royal Econ. Soc. Federal debt management; international finance; money and banking. Publ: A study of British interest rates, 1929-1950, 50. Address: Ballou Hall, Tufts University, Medford, Mass. 02155.

HALLOWELL, DR. DOROTHY K(ERN), b. Philadelphia, Pa, Dec. 25, 92. PSYCHOLOGY. B.A, Pennsylvania, 22, A.M, 24, Ph.D.(clin. psychol), 28. Psychologist, Pa. Children's Aid Soc, 23-31; Phila. Children's Bur, 23-38; supvr. psychol, Jr. Employ. Serv, 38-42, counsr, Bd. Ed, 42-58; PRACTICING PSYCHOLOGIST, 40- Lectr. Pa. Sch. Soc. Workers, 25-27; Harcum Jr. Col, 37-38. Clin. psychologist, Inst. Pa. Hosp, 33-35. Consult, Sleighton Farm Sch. Girls, 36-57. Dipl, Am. Bd. Exam. Prfn. Psychol. Fel. Psychol. Asn. Clinical psychology; preschool tests; vocational guidance. Publ: Ed, Mental tests for pre-school children Psychol Cl & Stability of mental test ratings for pre-school children J. Gen. Psychol. Address: 608 Pardee Lane, Haddonfield, N.J. 08033.

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HALLWORTH, DR. H(ERBERT) J, b. Middleton, Eng, June 29, 17; m. 42; c. 1. PSYCHOLOGY, EDUCATION. B.A, King's Col, London, 39; M.A, London, 51; Dept. Sci. & Indust. Res. Eng. res. grant, Birmingham, 62-65, Ph.D.(ed. psychol), 65; Nat. Inst. Res. Nuclear Sci. Eng. res. grant, 64-65. Teacher, Middlesex, Eng, 39-50; lectr. ed. psychol, col. ed, Sheffield, 50-54; psychol. & ed. psychol, Birmingham, 54-65; PROF. ED. PSYCHOL. & HEAD DIV. MEASUREMENT & EXP. DESIGN, CALGARY, 65- Vis. prof, Illinois, Urbana, summers 63 & 65. Co-ed, Ed. Rev, 57-67; ed. comput. sect, Brit. J. Math. & Statist. Psychol, 65- Consult. mkt. res, 65- Fel. Brit. Psychol. Soc; Can. Psychol. Asn; Am. Psychol. Asn; Ed. Res. Asn. Publ: A system of computer programs for use in psychology and education, Brit. Psychol. Soc, 67; Dimensions of personality and meaning, Brit. J. Soc. Clin. Psychol, 4: 161-168; Dimensions of personality among children of school age, Brit. J. Math. Statist. Psychol, 18: 45-56. Address: Dept. of Educational Psychology, University of Calgary, Calgary, Alta, Can.

HALM, PROF. G(EORGE) N(IKOLAUS), b. Munich, Germany, Sept. 10, 01. ECONOMICS. D.Pub.Econ, Munich, 24. Instr. Munich, 27-28; PROF. ECON, Wuerzburg, 28-36; TUFTS, 37-, INT. ECON. REL, FLETCHER SCH. LAW & DIPLOMACY, 44- Econ. Asn; Am. Acad. Arts & Sci. Money and banking; economic systems; international economic relations and monetary cooperation. Publ: Economic systems; Economics of money and banking; The band proposal: the limits of permissible exchange rate variations, Princeton, 65. Address: Fletcher School of Law & Diplomacy, Tufts University, Medford, Mass. 02155.

HALPER, PROF. DONALD GENE, b. Chicago, Ill, Jan. 29, 28; m. 54; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. A.B, Illinois, 48, M.S, 50; Lane fel. & Ph.D, Stanford, 58. Asst. prof. bus. admin, Fresno State Col, 55-59, assoc. prof, 59-65, prof. mkt. & mgt. & chmn. dept, sch. bus, 65-67; VIS. PROF. & ACADEMIC COORDINATOR, INT. CENTER ADV. MGT. ED, GRAD. SCH. BUS, STANFORD, 67- Ford Found. fel, California, 60; Chicago, 62; Fulbright lectr, Peru & Ecuador, 63-64; summers, Ford Found. fel, N.Y. Univ, 64, Found. Econ. Ed. fel, C. Brewer & Co, 64, Fulbright lectr. & consult, Guatemala, 66. Consult, Bank of Tokyo, Calif, 61; City of Fresno, 61-62. Participant, Nat. Mkt. Theory Seminar, Colorado, 61. U.S.A, 51-53, Sgt. Mkt. Asn; Asn. Ed. Int. Bus.(secy, 66-68). Higher education for business administration abroad; theory in marketing; public policy toward business; business administration: its place in the academic community of sciences, arts and humanities. Publ: The newer developments and the older faculty; International business: newer frontier for the business school?; The environment for marketing in Peru, J. Mkt, 7/66. Address: Graduate School of Business, Stanford University, Stanford, Calif. 94305.

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HALPERIN, DR. SAMUEL, b. Chicago, Ill, May 10, 30; m. 54; c. 2. POLITICAL SCIENCE. A.B. & A.M, Washington (St. Louis), 52, fel. & Ph.D, 56; Columbia, 54. Instr. polit. sci, Wayne State, 56-58, asst. prof, 58-60, Univ. Res. Coun. & Am. Fedn. Labor-Cong. Indust. Orgns. res. fel, 58, 60; legis. specialist, U.S. Off. Ed, 61-64, dir. legis. serv. br, 64-65, asst. cmnr. for legis. & dir. off. legis. & congressional rels, 65-66; DEP. ASST. SECY. FOR LEGIS, DEPT. HEALTH, ED. & WELFARE, 66- Am. Polit. Sci. Asn. congressional fel, 60-61; legis. asst. to Congressman C.M. Bailey, 61; prof. lectr, American Univ, 62-63; adj. prof, teachers col, Columbia, 66-; Alfred N. Whitehead fel, grad. sch. ed, Harvard, 69. Consult, cmt. labor & pub. welfare, U.S. Senate, 61; Carnegie Found, 61. Contrib. ed, Encyclop. Judaica. Superior serv. awards, Dept. Health, Ed. & Welfare, 64, 66, distinguished serv. award, 68. U.S.A.R, 50, 2nd Lt. Polit. Sci. Asn; Nat. Ed. Asn. Political processes, particularly politics of education; public policy decision making. Publ: Political world of American Zionism; University in the web of politics; Ideology or philanthropy, West. Polit. Quart. Address: 6812 Sixth St. N.W, Washington, D.C. 20012.

HALPERIN, DR. SIDNEY L, b. Orsha, Russia, Dec. 23, 08; nat; m. 44; c. 1. CLINICAL PSYCHOLOGY. B.A. & M.A, Ohio State, 31, univ. scholar, 38-39, Ph.D.(human genetics), 46. Clin. psychologist, neuropsychiat. inst, Michigan, 45-48; clin. psychologist & assoc. prof. psychol, Hawaii, 48-49; HEAD CLIN. PSYCHOL. SECT, TRIPLER U.S. ARMY HOSP, 49- Lectr, exten. serv, Michigan, 47, res. assoc, inst. human genetics, 47-48; head, dept. clin. psychol, Territorial Hosp, Hawaii, 48-52; sr. clin. psychologist, Territorial Bd. Health, 48-52. Hon. consult, Queens Hosp, 53-59. U.S.A, 42-45. Soc. Human Genetics; Soc. Projective Tech; Psychol. Asn. Human genetics; projective techniques; genetics of mental defect. Publ: Human heredity and mental deficiency, Am. J. Ment. Deficiency, 51: 153; co-auth, Heredity and mental traits, Am. J. Psychiat, 108: 54; auth, Is mental illness inherited?, Hawaii Med. J, 15: 458. Address: 1710 Makiki, Honolulu, Hawaii 96822.

HALPERIN, DR. SILAS, b. Glens Falls, N.Y, Mar. 18, 41; m. 61; c. 3. STATISTICS. B.A, Buffalo, 62; Ed.M, State Univ. N.Y. Buffalo, 63, Ph.D.(ed. statist), 66. ASST. PROF. ED. & PSYCHOL. STATIST, SYRACUSE, 66- Ed. Res. Asn; Psychomet. Soc; Statist. Asn. Statistical tests on Markov chains. Publ: Co-auth, Applications of stochastic models in research on career development, J. Counseling Psychol, 66. Address: 301 Huntington Hall, Syracuse University, Syracuse, N.Y. 13210.

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HALPERN, DR. BRUCE P(ETER), Physiol, Psychophysiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HALPERN, HENRY, b. Sept. 11, 22; m. 48; c. 2. GOVERNMENT. B.S, Columbia, 44. Acct. exec, George Gallup Orgns, 41-49; copy res. supvr, Young & Rubicam, Inc, 49-50; res. dir, Ward Wheelock Co, 50-52; dir. mkt. & res, MacManus, John & Adams, Inc, 52; Norman, Craig & Kummel, Inc, until 61; V.PRES. MKT. SERV, SUDLER & HENNESSEY, INC, N.Y, 61- Sr. res. analyst, for. serv, U.S. Dept. State, 46-47. U.S.A.A.F, 43-44; staff officer, Off. Secy. Defense, 51-52. Mkt. Asn; Asn. Pub. Opinion Res; Polit. Sci. Asn; Int. Advert. Asn. Public opinion in political behavior; advertising effectiveness; consumer research in marketing. Address: 24 Clover Lane, Princeton, N.J. 08540.

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HALPERN, DR. JOSEPH, b. New York, N.Y, Oct. 10, 40; m. 63; c. 2. PSYCHOLOGY. B.A, City Col. New York, 63; M.S, Massachusetts, 65, Ph.D. (psychol), 66. ASST. PROF. PSYCHOL, DENVER, 66- Res. consult, Ft. Logan Ment. Health Center & Denver Opportunity, 67- AAAS; Psychol. Asn. Mathematical learning theory; human discrimination learning and perception; statistics and quantitative methods in the social sciences. Publ: Co-auth, A Fortran II program for computation of nth order conditionals, Behav. Sci, 66; Three stimulus-two choice discrimination learning with blank trials, 67 & Two choice discrimination learning as a function of stimulus similarity, 67, J. Exp. Psychol. Address: Dept. of Psychology, University of Denver, Denver, Colo. 80210.

HALPERN, PROF. MANFRED, b. Mittweida, Germany, Feb. 1, 24; nat; m. 48; c. 4. COMPARATIVE GOVERNMENT. B.A, California, Los Angeles, 47; M.A, Hopkins, 48, fel, 48-49, Ph.D, 60. Intel. res. specialist, div. res. west. Europe, U.S. Dept. State, 48, div. res. Near East, S.Asia & Africa, 50-53, spec. asst. to chief, 53-58; assoc. prof. POLIT, PRINCETON, 58-67, PROF, 67- Lectr, George Washington, 52-54; Hopkins, 56- Consult, Rand Corp, 58- U.S.A, 44-46. Polit. Sci. Asn; fel. African Studies Asn; fel. Mid. East Studies Asn; Royal Cent. Asian Soc. Comparative politics and international relations; studies of the Near East, South Asia and Africa; political modernization. Publ: Politics of social change in the Middle East and North Africa, 63 & co-auth, Communism and revolution, 64, Princeton; Revolution, Atherton, 66. Address: 27 McLean Circle, Princeton, N.J. 08540.

HALPERN, DR. NAOMI MIMI, Physiol. Psychol, Anat, see Suppl. V to 11th ed, Phys. & Biol. Vols.

HALPERN, DR. RICHARD S, b. New York, N.Y, Jan. 23, 27; m. 54; c. 3. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Union Col, 50; Ph.D.(sociol), Columbia, 58. Mgr. mgt. surv. div, Res. Inst. Am, 56-58; acct. res. mgr, J. Walter Thompson Co, 58-61; group res. assoc, Gen. Foods Co, 61-63; assoc. res. dir, MARPLAN, INC, 63-65, v.pres, 65-67, V.PRES. & MGR, 67- U.S.N.R, 45-46. AAAS; Asn. Pub. Opinion Res; Sociol. Asn. Application of opinion and attitude and survey research methodology to consumer research problems and marketing. Publ: Applications of pupil measures to before and after experiments, J. Mkt.Res, 8/67; Some observations about attitudes, attitude measurement and behavior, In: Attitude research on the rocks, Am. Mkt. Asn,(in press); Understanding McLuhan: some implications for advertising research, J. Mkt, (in press). Address: Marplan Inc, 605 Third Ave, New York, N.Y. 10017.

HALPERT, DR. HAROLD P(AUL), b. New York, N.Y, Apr. 22, 13; m. 37. PUBLIC & MENTAL HEALTH. B.A, N.Y. Univ, 32; M.A, Illinois, 33; M.P.H, Hopkins, 64, D.P.H, 66. Info. specialist, Dept. Army, 42-44, tech. writer, U.S. Qm. Corps, 44-48; ed. specialist, bur. personnel, Dept. Navy, 48-52; chief pub. & reports, NAT. INST. MENT. HEALTH, 52-61, pub. health adv. & consult. commun, 61-66, CHIEF SYSTS. RES. SECT. MENT. HEALTH, 66- Instr, George Washington, 43-46 & 47-48. Consult, State Ment. Health Info.& Ed. Personnel, 61-66. Fel. Pub. Health Asn; Orthopsychiat. Asn; Soc. Gen. Syst. Res; Asn. Sci. Writers. Systems approach to organization, coordination and evaluation of mental health and other helping services; effects of communications activities on planning and implementation of mental health programs. Publ: Public opinions & attitudes about mental health: implications for communications, Pub. Health Serv. Pub. 1045, 63 & Comprehensive mental health planning in six states, Pub. Health Serv. Pub. 1686, 67, U.S. Govt. Printing Off; Communications as basic tool in promoting utilization of research findings, Community Ment. Health J, fall 66. Address: 4606 Bayard Blvd. N.W, Washington, D.C. 20016.

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HALTER, PROF. ALBERT N(ELSON), Agr. Econs, Statist, see 11th ed, Phys. & Biol. Vols.

HALTERMAN, PROF. JEAN C, b. Chicago, Ill, Sept. 7, 21. MARKETING. B.S, Illinois, 43, M.S, 48; D.B.A, Indiana, 54. From asst. prof. to PROF. MKT, INDIANA, 49-, ACTING CHMN. DEPT, 65-66. U.S.A, 42-46. Econ. Asn; Mkt. Asn; Acad. Advertising; Asn. Ed. Journalism. Communications; radio and television; advertising. Publ: Co-auth, Market potentials and the use of census data; auth, How to write better business letters, Ind. Bur. Bus. Res, 65; contrib, Marketing handbook, Ronald, 65. Address: Graduate School of Business, Indiana University, Bloomington, Ind. 47401.

HALTERMAN, PROF. J(OHN) FRED(ERICK), b. New York, N.Y, July 19, 98; m. 22. ECONOMICS. B.S, California, 29, M.S, 30, Ph.D.(econ), 35. Instr. econ, St. Mary's Col, 34-35; State Col. Wash, 35-36; soc. sci, CALIFORNIA, SANTA BARBARA, 36-37, asst. prof. ECON, 37-38, assoc. prof, 38-40, prof. 40-65, EMER. PROF, 65-, head univ. exten, tri-counties area, 59-61, chmn. dept. econ, 60-63. Bus. economist, Off. Price admin, Wash, D.C, 42, asst. regional acct, Calif, 43, regional acct. exec, 44. Cmnr, Santa Barbara County Planning Cmn, 60-66, v.chmn, 62-66. Econ. Asn; fel. Royal Econ. Soc. Labor, especially public employee associations; economic history; area economic analysis. Publ: Industrial relations policy, Arthur Guinness, Son & Co, Ltd, Dublin, Eire, 1914-1937; Elementary Statistics. Address: 17 Pueblo Vista Rd, Santa Barbara, Calif. 93103.

HALTMIER, ROBERT FRANK, b. New York, N.Y, July 19, 25. ECONOMICS. B.A, Hofstra Col, 50; M.A, Columbia, 51. Economist, Standard Oil Co.(N.J), 51-67; commodity trader, New York Produce Exchange, 67-68; COMMODITY ANALYST, HORNBLOWER & WEEKS-HEMPHILL, NOYES, 68- Instr, Hofstra Col, 58-59. U.S.A, 44-46. Econ. Asn; Agr. Hist. Soc; Econ. Hist. Asn; Econ. Hist. Soc, Brit; Royal Econ. Soc; Scottish Econ. Soc. Business fluctuations and forecasting; international trade and finance; commodity price forecasting. Address: 97-25 118th St, Richmond Hill, N.Y. 11419.

HALVERSON, DR. CHARLES F(LOHR), JR, b. Denver, Colo, Jan. 9, 38; m. 61; c. 3. DEVELOPMENTAL PSYCHOLOGY. B.A, New Mexico, 61; Ph.D.(psychol), Syracuse, 66. ACTING CHIEF SECT. INFANT DEVELOP, NAT. INST. MENT. HEALTH, 66- AAAS; Soc. Res. Child Develop. Early infant and child personality development. Address: Child Research Branch, National Institute of Mental Health, Bethesda, Md. 20014.

HALVORSON, DR. LLOYD C(HESTER), b. Swift Co, Minn, Feb. 7, 18; m. 42; c. 4. ECONOMICS. B.S, Minnesota, 39; Iowa State Col, 39-40; fel, Minnesota, 40-41, Ph.D.(econ, polit. sci), 43. ECONOMIST, Farm Credit Admin, 42-45; Nat. Grange, 45-57; COOP. STATE EXP. STAS. SERV, U.S. DEPT. AGR, 57- Agr. Econ. Asn. Agricultural policy; livestock marketing. Address: 934 Douglass Dr, McLean, Va. 22101.

HAM, CHARLES HERMAN, b. Cottonton, Ala, Oct. 1, 19; m. 43; c. 1. OPERATIONS RESEARCH. B.M.E, Auburn, 41; M.B.A, Fla. State, 63. Tech. dir. plans & requirements off, air proving ground center, Air Force Systems Command, U.S. AIR FORCE, 57-64, chief plans div, 64-67, CHIEF OPERS. ANAL. OFF, TACTICAL AIR WARFARE CENTER, TACTICAL AIR COMMAND, 67- Inst. Elec. & Electronics Eng; Ord. Asn; Armed Forces Mgt. Asn. Research and development and operational testing of military systems and equipments; management of military testing facilities; operations analysis of tactical operations. Address: Box 102, Shalimar, Fla. 32579.

HAM, DR. CLIFFORD C(ARMICHAEL), JR, b. Lynn, Mass, Apr. 25, 24; m. 51; c. 3. CITY PLANNING. B.C.P, Mass. Inst. Tech, 48; B.D, Andover Newton Theol. Sch, 52; M.S.T, Boston, 52; Ph.D.(city planning), Pennsylvania, 62. Pastor, Methodist Church, Md, 52-58; asst. prof. urban develop, Wesley Theol. Sem, 59-63; URBAN AFFAIRS, GRAD. SCH. PUB. & INT. AFFAIRS, PITTSBURGH, 63-66, ASSOC. PROF, 66- Community orgn. specialist, Baltimore Urban Renewal & Housing Agency, 59-61. Consult, Nat. Coun. Churches, 67- Mem. policy cmt, Planners Equal Opportunity, 66- U.S.A.A.F, 42-46, Capt. Theology; integration in white suburban areas of Pittsburgh; goal formulation in long range planning. Publ: The role of the neighborhood church in urban extension, Action-Housing, Pittsburgh,

8/64; Urban renewal: a case study in emerging goals in an intergovernmental setting, Annals, 5/65; The planning process and goal evaluation, Info. Serv, Nat. Coun. Churches, 12/67. Address: Dept. of Urban Affairs, University of Pittsburgh, Pittsburgh, Pa. 15213.

HAM, PROF. ELTON W(ALLIS), b. Pontiac, Mich, Oct. 18, 18; m. 48; c. 3. POLITICAL SCIENCE. A.B, Chicago, res. grant, 66-67, Ph.D, 68; M.A, Kalamazoo Col. ASSOC. PROF. POLIT. SCI. & CHMN. DEPT, KALAMAZOO COL, 51-, DIR, BUR. MUNIC. RES, 52- Consult, Southwest. Mich. Inst. Govt; metrop. area study cmt, Greater Kalamazoo Home Improv. Cmn, 51-52; Upjohn Inst, 55; Downtown Kalamazoo Asn, 59- U.S.A, 41-45, Capt. Polit. Sci. Asn; Soc. Pub. Admin; Int. City Mgrs. Asn. Political theory; public administration. local government. Publ: City-township consolidation; National municipal review; Public management, In: Merit raises for municipal pay plans. Address: Dept. of Political Science, Kalamazoo College, Kalamazoo, Mich. 49001.

HAM, DR. F. GERALD, Am. Hist, Arch. Admin, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HAM, DR. GEORGE C(AVERNO), Psychiat, see 11th ed, Phys. & Biol. Vols.

HAMBACHER, DR. WILLIAM O(TTO), b. Bloomfield, N.J, May 13, 25; m. 50; c. 3. PSYCHOLOGY. B.A, Upsala Col, 49; M.A, Pennsylvania, 52, Ph.D. (psychol), 56. Asst. instr. psychol, Pennsylvania, 53-55; res. psychologist, Phila. Naval Base, 55-56; head dept. psychol, Juniata Col, 56-58; assoc. prof. & head dept, Augustana Col, 58- Supv. psychologist, East Moline State Hosp, 61-63; mgr. behav. systs. br, HRB-Singer, Inc, 63-67; DIR. ED. & TRAINING SCI. DEPT, NAVAL MED. RES. INST, NAT. NAVAL MED. CENTER, 67- Supv. psychologist, East Moline State Hosp, 61-; private practice, 63-67. Psychol. consult, Altoona, Centre County & Pa. Socs. Crippled Children & Adults & Skills Inc, Altoona & Bellefonte, Pa, 63-67. U.S.A, 43-46. Psychol. Asn. Human engineering; perception, motivation, personality dynamics and experimental design; group and individual therapy, guidance and counseling; community education in mental health; education; training. Publ: Self concepts of psychiatric and normal subjects on the WAY test, J. Clin. Psychol. Address: 11414 Rolling House Rd, Rockville, Md. 20852.

HAMBERG, PROF. D(ANIEL), b. Philadelphia, Pa, Apr. 25, 24; m. 49; c. 1. ECONOMICS. B.S, Pennsylvania, 45, M.A, 47, Ph.D.(econ), 52; Princeton, 47-48; summer, Chicago, 48. Asst. prof. ECON, Maryland, 52-55, assoc. prof, 55-59, PROF, 59-61; STATE UNIV. N.Y. BUFFALO, 61-, CHMN. DEPT, 66- Fulbright lectr, Netherlands Sch. Econ, 56-57; Sch. Adv. Int. Studies, Hopkins, Bologna, Italy, 65-66. Award, Soc. Sci. Res. Coun, 52. Econ. Asn; Royal Econ. Soc. Business cycles; role of technological progress in economic growth; investment and economic growth. Publ: Business cycles; Economic growth and instability; Essays on the economics of research and development, Random, 66. Address: Dept. of Economics, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HAMBLEN, DR. JOHN W(ESLEY), Comput. Sci, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

HAMBLEY, WILLIAM ARTHUR, JR, b. Creighton, Ont, July 16, 25; U.S. citizen; m. 49, 65. POLITICAL SCIENCE, ECONOMICS. B.S, Wisconsin, 50; M.A, Minnesota, 53, Tozer fel, 63. Indust. engr, Proctor & Gamble, 52-53; res. asst, Off. Secy. Defense, D.C, 53-54; commercial officer, asst. attache, U.S. For. Serv, Korea, 54-55; intel. officer, Cent. Intel. Agency, D.C, 55-56; asst. to U.S. Senator Patrick V. McNamara, 56-57; mgt. analyst, mgt. off, Govt, D.C, 57; asst. polit. sci. & instr, Minnesota, 57-60; instr, Macalester Col, 60; admin. fel. freshman scholar prog, bur. student loans & scholarships, Minnesota, 61-62, asst. to v.pres. ed. develop, 62-64; asst. prof. polit. sci, Northern Michigan, 64-65; res. assoc, off. dean, col. med. sci, Minnesota, 65-66; mgt. intern, off. chief staff, U.S. DEPT. ARMY, 66-67; MGT. ANALYST DOCTRINE DISSEMINATION OFF, DIR. MGT. OFF, COMPTROLLER OF THE ARMY, 67- Citizenship Clearing House Nat. fel, 61-62; hon. lectr. mgt, U.S. Army Mgt. Sch, 68. U.S.A, 43-46, Res, Maj. Polit. Sci. Asn; Soc. Pub. Admin. American government including budget and fiscal administration; political theory, parties and politics; international relations; public administration; military management. Publ: The army resource management system, Army Digest, 7/67. Address: 2000 S. Second St, Arlington, Va. 22204.

HAMBLIN, PROF. ROBERT L(EE), Sociol, see 10th ed, Soc. & Behav. Vols.

HAMBLY, DR. WILFRID DYSON, Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 62.

HAMBURG, PROF. M(ORRIS), b. Philadelphia, Pa, June 1, 22; m. 53; c. 2. STATISTICS, ECONOMICS. A.B, Pennsylvania, 43, A.M, 48, Ph.D.(econ), 52. Instr. statist, PENNSYLVANIA, 46-53, asst. prof, 53-57, assoc. prof, 57-63, PROF. STATIST. & OPERS. RES, 63-, chmn. grad. group econ, Grad. Sch. Arts & Sci, 61-63. Res. assoc. consumer expenditures study, Wharton Sch. Finance & Commerce, 54-59, securities res. unit, 49-54. Dir, Urban econ. planning & develop. in Pa, Dept. Internal Affairs, Commonwealth Pa. 62-63, consult, Dept. of Justice, 64-65; Fels Inst. Local & State Govt, 64-65; Pharmaceut. Cos, 64- U.S.A.A.F, 43-46, Lt. Statist. Asn.(ed, 55-); Econ. Asn; Soc. Qual. Control; Inst. Mgt. Sci; Regional Sci. Asn; Economet. Soc; Inst. Math. Statist. Consumption economics; securities, business and economic research; economic statistics. Publ: Co-auth, Over the counter securities markets; auth, Statistical decision theory and benefit-cost analysis for preferredness of choice among alternative projects, Psychol. Mgt. Decision, Lund, 67; co-auth, Computer model for new product demand, Harvard Bus. Res, 3/67. Address: 314 Willings Alley, Philadelphia, Pa. 19106.

HAMBURG, DR. ROGER P, b. Davenport, Iowa, June 19, 34; m. 59; c. 2. POLITICAL SCIENCE. A.B, Michigan, 56; M.A, Chicago, 58; Ph.D.(polit. sci), Wisconsin, 65. ASST. PROF. POLIT. SCI, East. Wash. State Col, 65-66; MARQUETTE, 66- Travel grant from Marquette, Library Cong, 66. U.S.A.R, 59-64. Polit. Sci. Asn. Soviet and American foreign and military policies; international relations. Publ: Review of Codo's guerrillas tras la cortina de hierro, Soviet Studies, 4/68; The study of Latin America in the Soviet Union, J. Inter-Am. Studies, 68. Address: Dept. of Political Science, Marquette University, Milwaukee, Wis. 53233.

HAMBURGER, PROF. WILLIAM, b. Frankfurt, Germany, Oct. 27, 27; nat; m. 61. ECONOMICS. A.B, Chicago, 48, A.M, 50, Hillman fel. & Ph.D.(econ), 51. Instr. econ, Stanford, 52-54; assoc. soc. scientist, Rand Corp, 54-56; economist, United Res, Inc, 56-61; ASSOC. PROF. ECON, North Carolina, 61-67; GRAD. FACULTY, NEW SCH. SOC. RES, 67- U.S.A, 46-47. Econ. Asn; Economet. Soc. Econometrics; macro-economics; consumer choice; operations research; transportation economics. Publ: Determinants of aggregate consumption, Rev. Econ. Studies; Relation of consumption to wealth and the wage rate, Econometrica. Address: Graduate Faculty, New School for Social Research, New York, N.Y. 10011.

HAMELIN, PROF. LOUIS-EDMOND, Phys. Geog, see 11th ed, Phys. & Biol. Vols.

HAMID, PROF. M. KHALIL, b. Palestine, Jordan, Mar. 31, 32; U.S. citizen; m. 62; c. 2. ECONOMICS. B.S, Chicago, 57; Texas & Roosevelt, 53-57; M.A, Illinois, Urbana, 59; Ph.D.(econ), Iowa, 66. Indust. engr, Oscar Mayer & Co, 55-58; statistician, state water surv, res. center, Univ. Illinois, 58-59; lectr. math, Northwestern, 59-60; mathematician, Burroughs Electrodata, Calif, 60-61; comput. anal. researcher, Nat. Cash Register Co, Calif. 61-64; asst. prof. statist, sch. bus. & tech, Oregon State, 64-65; ECON, American Univ. Beirut, 66-67; assoc. prof. & chmn. dept, W.Va. Inst. Tech, 67-68; PROF. & CHMN. DEPT, MILLERSVILLE STATE COL, 68- Asn. Comput. Mach; Econ. Asn; Statist. Asn; Opers. Res. Am. Statistics; computer technology; mathematics. Publ: Statistical function generators, 60 & co-auth, Forecasting by exponentially weighted moving averages, 60, Burroughs Co. Address: Dept. of Economics, Millersville State College, Millersville, Pa. 17551.

HAMILL, DR. LOUIS, b. Monaghan, Ireland, Aug. 22, 25; U.S. citizen; m. 47; c. 2. GEOGRAPHY, FORESTRY. B.S, State Univ. N.Y. Col. Forestry, Syracuse, 49, M.S, 51; Ph.D.(geog), Washington (Seattle), 63. Instr. bus. admin, Oregon, 59-62, GEOG, 62-63; asst. prof, CALGARY, 63-66, ASSOC. PROF, 66- Study grants, Weyerhaeuser Co, 60-61; Can. Nat. Cmt. Geog. Res, 66-68; Can. Coun, 67-69. Consult, City Calgary, 67-68. U.S.A, 44-46. Asn. Am. Geog; Soc. Am. Foresters; Can. Asn. Geog. Multiple use of wildlands, with emphasis on recreation; urban planning for parks, recreation and related amenities; use of information in making decisions and in environmental planning; operational analysis of scientific theories. Publ: A forecast of the forest resource and forest industry of Douglas & Lane Counties, Oregon, Univ. Oregon Bur. Bus. Res, 63; Are formal theories needed in marketing geography?, Prfnl. Geogr, 3/65; The process of making good decisions about the use of the environment of man, Nat. Resources J, 1968. Address: Dept. of Geography, University of Calgary, Calgary 44, Alta, Can.

HAMILTON, DR. CHARLES G(RANVILLE), b. Homestead, Pa, July 18, 05; m. 39. POLITICAL SCIENCE. A.B, Berea Col, 25; fel, Nat. Univ. Mexico, 46; M.A, Mississippi, 47; Danforth fel, Columbia, 55-56; Rockefeller grant, Vanderbilt, 56-57, Ph.D, 58. Prof. soc. studies, Okolona Col, 32-40; rep, Miss. Legis, 40-44; prof. soc. studies, Prairie High Sch, 44-47; chmn. soc. studies, Wood Jr. Col, 47-48; prof. polit. sci, Memphis State Col, 50-53; chmn. polit. sci, Col. Ozarks, 53-58; head dept. hist. & polit. sci, Dillard, 58-63; prof. polit. sci, Pikeville Col, 63-64; Jacksonville Col, 65; Southwest. Col, 65-67; res. & writing, 67-68. Lectr, Ga. State Col. Women, 38; Pa. State, 50; Hamline, 52; pres, Town & Country Sch, Emory Univ, 53; lectr, Arkansas, 58; Danforth fels, Pomona Col, 58, Indiana, 59 & Col. Pacific, 60; fel. to Gt. Brit, 61; Ford Found. grant, 62; Truman Library grant, 63. Ed, J. Miss. Hist, 41-53; Crossroads, 58- Mem, Tenn. Constitutional Rev. Cmt, 51-53; White House Traffic Safety Cmn, 58, Census Cmn, 60. Radio commentator, 41-; Civil War Round Table, 58-65. U.S.A, 40-44, Lt. Polit. Sci. Asn; Hist. Asn. Presidential elections; political parties; state legislation; Civil War; Progressive Period; Mississippi legislation; Supreme Court. Publ: Co-auth, Election of a president, Stackpole, 51, rev. ed, 53; auth, Lincoln and the know nothings, Pub. Affairs, 54; co-auth, Thunder in the wilderness, Augsburg, 65. Address: 115 Highland Ave, Aberdeen, Miss. 39730.

HAMILTON, PROF. C(HARLES) HORACE, b. Tex, June 10, 01; m. 28; c. 2. RURAL SOCIOLOGY. A.B, Southern Methodist, 23; M.S, Agr. & Mech. Col, Tex, 25; Chicago, 25; Harvard, 30-31; Ph.D.(sociol), North Carolina, 32. Instr, Lon Morris Col, 25-26; res. sociologist, Va. Agr. Exp. Sta, 27-31; assoc. prof. rural sociol, N.C. State Col, 31-36; economist rural life, exp. sta, Texas, 36-39; sr. soc. scientist, U.S. Dept. Agr, 39-40; prof. RURAL SOCIOL. & head dept, N.C. STATE, 40-60, WILLIAM N. REYNOLDS DISTINGUISHED PROF, 60-; VIS. PROF. SOCIOL. & BIOSTATIST. & ASSOC. DIR. CAROLINA POP. CENTER, NORTH CAROLINA, 67- Vis. prof, Wisconsin, Madison, 59-60. State supvr. rural res, Fed. Emergency Res. Admin. & Works Progress Admin, N.C, 34-36; dir. soc. res, Cmn. Hosp. Care, 45-46. Consult, Res. Triangle Inst, N.C, 65- Mem. cmt. pub. health methods, res. grants div, Nat. Insts. Health, 46-49; adv. cmt. pop, U.S. Bur. Census, 48-54; chmn. subcmt. statist. studies & secy. subcmt. rural health, State Hosp. & Med. Care Cmn, N.C, 44-45. Mem, Nat. Defense Exec. Reserve, D.C, 63- Gardner award, 58. Rural Sociol. Soc.(managing ed, Rural Sociol, 40-50, pres, 58); fel. Sociol. Asn; fel. Statist. Asn; Pop. Asn.(pres, 61); Int. Union Sci. Study Pop; Sociol. Res. Asn; Biomet. Soc. Educational selectivity in internal migration; population projections and estimates; methodology in population study; community colleges; enrollment and future enrollment in North Carolina colleges and universities. Publ: Continuity and change in southern migration, In: The South in continuity and change, Duke, 65; Practical and mathematical considerations in the formulation and selection of net migration rates, 2: 429-443 & Effect of census errors on the measurement of net migration, 3: 393-415, Demography. Address: Carolina Population Center, 123 W. Franklin St, Chapel Hill, N.C. 27514.

HAMILTON, DR. CHARLES L, Psychol, Physiol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HAMILTON, PROF. CHARLES V, b. Muskogee, Okla, Oct. 19, 29; m. 56; c. 2. POLITICAL SCIENCE. B.A, Roosevelt, 51; J.D, Loyola (Ill), 54; M.A, Chicago, 57, Ph.D.(polit. sci), 64. Asst. prof. POLIT. SCI, Tuskegee Inst, 58-60; instr, Rutgers, 63-64; PROF, Lincoln (Pa), 64-67; ROOSEVELT, 67- Summer vis. prof, California, Los Angeles, 64 & 67. U.S.A, 48-49. Polit. Sci. Asn. Role of constitutional law in political change; application of theories of political modernization and social change to political development in America, especially of Negro Americans. Publ: Minority politics in black-belt Alabama, Eagleton Inst, McGraw, 62; co-auth, Black power: the politics of liberation in America, Random, 67; auth, Southern judges and Negro voting rights: the judicial approach to the solution of controversial social problems, Wis. Law Rev, 65. Address: Dept. of Political Science, Roosevelt University, 430 S. Michigan, Chicago, Ill. 60605.

HAMILTON, DR. DANIEL C(ORNING), Econ, see 10th ed, Soc. & Behav. Vols.

HAMILTON, PROF. DAVID BOYCE, JR, b. Pittsburgh, Pa, Aug. 31, 18; m. 46; c. 2. ECONOMICS, SOCIOLOGY. A.B, Pittsburgh, 40, M.A, 41; Ph.D, Texas, 51. Instr. ECON, Pittsburgh, 46-47; Texas, 47-49; asst. prof, NEW MEXICO, 49-56, assoc. prof, 56-62, PROF, 62- Carnegie intern & vis. prof, Columbia, 56-57. U.S.A.F, 41-46, 51-52, Maj. Econ. Asn; Asn. Evolutionary Econ. Economic theory; consumer economics; economic history. Publ: Newtonian classicism and Darwinian institutionalism, Univ. New Mexico, 53; Consumer in our economy, Houghton, 62; A primer on the economics of poverty, Random, 68. Address: Dept. of Economics, University of New Mexico, Albuquerque, N.Mex. 87106.

HAMILTON, PROF. EARL J(EFFERSON), b. Houlka, Miss, May 17, 99; m. 23; c. 1. ECONOMICS. B.S, Miss. State Col, 20; A.M, Texas, 24; Thayer fel, Harvard, 25-26, A.M, 26, Sheldon traveling fel, 26-27, Ph.D, 29; hon. Dr, Paris, 52, Madrid, 67; hon. LL.D, Duke, 66. Football coach & athletic dir, sec. schs, 20-24; asst. prof. econ, Duke, 27-29, prof, 29-44, dir. grad. studies, 39-44, dir. civilian instr, mil. govt. fiscal sch, 43-44; prof. econ, Northwestern, 44-47; Chicago, 47-67; DISTINGUISHED PROF. ECON. HIST, STATE UNIV. N.Y. BINGHAMTON, 66- Soc. Sci. Res. Coun. fel, 29-30; Guggenheim fel, 37-38; Ford Found. faculty fel, 56-57. Ed, J. Polit. Econ, 48-54. Rapporteur, cmt. world regions, Soc. Sci. Res. Coun, Nat. Res. Coun. & Am. Coun. Learned Socs, 43; rapporteur, Cong. Sci. Hist, 60. Fel. AAAS; Econ. Asn.(v.pres, 55); Econ. Hist. Asn.(v.pres, 41, pres, 51-52); Am. Acad. Arts & Sci; fel. Royal Econ. Soc. Economic history; money and banking; history of economic thought. Publ: American treasure and the price revolution in Spain, 1501-1650, 34 & War and prices in Spain, 1651-1800, 47, Harvard; co-ed, Landmarks in political economy. Address: Dept. of Economics, State University of New York at Binghamton, Binghamton, N.Y. 13901.

HAMILTON, DR. EDITH L, b. Philadelphia, Pa, Jan. 2, 14; m. 62. MEDICAL SOCIOLOGY. B.A, Chicago, 47, M.A, 49; Ph.D.(sociol), Cornell, 55. Assoc. secy, Friends Soc. Order Cmt, 43-45; res. asst, cmt. human rels. in indust, Chicago, 45-50; field dir, study of human rels. in hosps, Cornell, 50-55; asst. prof. hosp. admin, Minnesota, 55-58, assoc. prof, 58-65; WRITER & LECTR. MED. SOCIOL, 65- Soc. Sci. Res. Center fel, Cornell, 55-56. Consult, U.S. Pub. Health Serv, 57-58; WHO & Govt. Philippines, summer, 62. McKinsey Found-Acad. Mgt. book award, 65. Fel. Sociol. Asn; fel. Soc. Appl. Anthrop. Human relations in the healing professions, industry and community life. Publ: Co-auth, The give and take in hospitals, Putnam, 56; Actions research for management, Dorsey, 65. Address: 12 Samoset Rd, South Duxbury, Mass. 02374.

HAMILTON, DR. ELEANOR LEIGH, b. Portland, Ore, Oct. 6, 09; m. 32; c. 4. PSYCHOLOGY. A.B, Oregon, 30; M.A, Columbia, 36, Ph.D, 55. Dir. girl reserve prog, Y.W.C.A, 30-32; DIR. HAMILTON SCH, INC, 33- Private practice, 55- Psychol. Asn; Soc. Sci. Study Sex; Asn. Marriage Counsr; Acad. Psychother; Int. Coun. Psychol. Emotional factors in pregnancy; love and sex in marriage; development of capacity to love. Publ: Partners in love, A.S. Barnes, 61; Are you ready for marriage, Mod. Bride Mag; Chap. In: Marriage counseling in medical practice, W. Wilkins. Address: 200 E. 78th St, New York, N.Y. 10028.

HAMILTON, PROF. FORREST SIDNEY, b. Portland, Maine, Mar. 26, 12; m. 34; c. 2. EDUCATIONAL PSYCHOLOGY, SOCIOLOGY. B.S, North Texas State, 36, M.S, 37; Ed.D, N.Y. Univ, 48. Instr. ed. psychol, NORTH TEXAS STATE, 37-40, asst. prof, 40-46, assoc. prof, 46-50, PROF. PSYCHOL, 50- Summer lectr, N.Y. Univ, 47. U.S.N, 43-45, 50-52, Res, 52-, Capt. Psychol. Asn; Soc. Proj. Tech; Asn. Marriage Counsr. Clinical psychology; marriage counseling; human development. Publ: Workbook in courtship, marriage and parenthood; co-auth, Workbook in adolescent psychology & Workbook in adolescent development. Address: Dept. of Psychology, North Texas State University, Denton, Tex. 76203.

HAMILTON, PROF. H(ENRY) G(LENN), b. Humboldt, Tenn, Mar. 29, 95; m. 23; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Florida, 21, M.S.A, 23; Ph.D.(agr. econ), Cornell, 28. Asst, FLORIDA, 21-23, instr. farm mgt, 23-26, asst. prof. mkt, 26-27, assoc. prof, 28-34, prof, 34-50, prof. AGR. ECON. & head dept, 50-65, EMER. PROF, 65-; ECON. CONSULT, 65- Economist, War Food Admin, 43-44. U.S.A, 17-19. AAAS; Econ. Asn; Agr. Econ. Asn; Agr. Hist. Soc; Int. Asn. Agr. Econ. Marketing of agricultural products; cost of marketing citrus fruits; organization and management of cooperatives. Address: 505 S.W. Tenth St, Gainesville, Fla. 32601.

HAMILTON, HENRY R, b. Woburn, Mass, July 30, 32; m. 59; c. 2. INDUSTRIAL MANAGEMENT, ECONOMICS. B.S, Lowell Tech. Inst, 54; S.M, Mass. Inst. Tech, 59. Indust. analyst, BATTELLE MEM. INST, 59-65, DIV. CHIEF ECON, 65- U.S.A.F, 54-57, Lt. Business and market research; economic models; systems analysis. Publ: Co-auth, Systems simulation for regional analysis, Mass. Inst. Tech, 68. Address: Dept. of Economics, Battelle Memorial Institute, 505 King Ave, Columbus, Ohio 43201.

HAMILTON, DR. HERBERT, b. Chicago, Ill, Apr. 11, 29; m. 53; c. 3. SOCIOLOGY. B.A, Roosevelt, 52; A.M, Chicago, 60, fel, 60-61, Ph.D.(sociol), 63. Asst. prof. SOCIOL, Illinois, Urbana, 61-66; ASSOC. PROF, BRADLEY, 66- AAAS; Sociol. Asn. Diffusion of innovations; survey research methods; sociology of complex organizations; sociology of education; sociology of mass communication and public opinion. Publ: Co-auth, Traditions of research on the diffusion of innovations, Am. Sociol. Rev, 4/63. Address: Dept. of Sociology, Bradley University, Peoria, Ill. 61606.

HAMILTON, DEAN HERBERT ALFRED, b. Lake Charles, La, July 25, 13; m. 44. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Southwest. La. Inst, 32; fel, Louisiana, 32-33, M.S, 33; Ph.D, N.Y. Univ, 50; London Sch. Econ, 55 & 64. Asst. prof. bus. admin, Southeast. La. Col, 39-40; SOUTHWESTERN LOUISIANA, 40-42, PROF. BUS. ADMIN. & ECON, 45-, head dept, 45-51, DEAN COL. COMMERCE, 51- Ed, La. Commerce Teacher, 40-42. U.S.N.R, 42-45, Lt. Comdr. Business education; relationships of success in beginning general clerical occupations to achievement in the information and skill aspects of the general office clerical division of the national business entrance test series. Address: College of Commerce, University of Southwestern Louisiana, Lafayette, La. 70501.

HAMILTON, PROF. HOWARD D(EVON), b. Greenfield, Ind, Dec. 18, 20; m; c. 3. POLITICAL SCIENCE. B.S, Purdue, 42; Maxwell fel, Syracuse, 42; Ph.D.(polit. sci), Illinois, 50. Lectr, Albion Col, 50-51; res. analyst, Mich. Dept. Admin, 51-53; res. dir, Mich. Dept. Revenue, 53-55; from asst. prof. to prof. POLIT. SCI, Ind. State Col, 55-64; vis. prof, Indiana, 64-65; PROF, BOWLING GREEN STATE, 65- Polit. Sci. Asn; Soc. Pub. Admin. Publ: Political institutions, 62; Legislative apportionment, 64; Reapportioning legislatures, 66. Address: 805 Napoleon Rd, Bowling Green, Ohio 43402.

HAMILTON, PROF. HUGHBERT C(LAYTON), b. Cedar Rapids, Iowa, Mar. 6, 03; m. 40. PSYCHOLOGY. A.B, Cornell Col, 25; Roberts fel, Columbia, 25-27, M.A, 26, Ph.D.(psychol), 29. Instr. PSYCHOL, TEMPLE, 28-32, asst. prof, 32-38, assoc. prof, 38-46, PROF, 46-, ED, UNIV. PUBS, 45-, CHMN. DEPT. 62- Res. grants, Am. Philos. Soc, Am. Med. Asn. & Temple Univ. Cmt. on Res. AAAS; Psychol. Asn; Psychonomic Soc. Factors such as drugs, body temperature and fatigue affecting learning ability and emotional stability; physiological and psychological effects of stress. Publ: Effect of the administration of sodium bromide on the behavior of the offspring. IV. Emotionality (timidity) and esperimentally induced seizures' and co-auth, Fear conditioning as a function of the number and timing of reinforcements, J. Psychol; Effects of angularity of contour in the surround on critical flicker frequency, Perceptual & Motor Skills. Address: Dept. of Psychology, Temple University, Philadelphia, Pa. 19122.

HAMILTON, DR. JAMES WILLIAM, b. Clarksville, Ohio, Mar. 27, 30; m. 52; c. 1. ANTHROPOLOGY. B.A, San Jose State Col, 54; M.A, Stanford, 56; Chicago, 55-57; Ford Found. fel, Michigan, 59-62, Ph.D.(anthrop), 65. Instr. ANTHROP, Washington State, 63-65; ASST. PROF, MISSOURI, 65- U.S.N, 47-50. AAAS; fel. Anthrop. Asn; Asn. Asian Studies. Culture change, development and ecology; origin and development of the state and tribal cultures in Southeast Asia; comparative social organization. Publ: Thai culture and American foreign policy, 68; Effects of the Thai market on Karen life, Practical Anthrop, 9-10/63; Ban Hong: a Pwo Karen village in transition from tribal to peasant status, In: Thai villages, 68. Address: Dept. of Anthropology, 210 Switzler Hall, University of Missouri, Columbia, Mo. 65201.

HAMILTON, DR. MARSHALL LEE, b. El Centro, Calif, Aug. 2, 37; m. 58; c. 2. PSYCHOLOGY. B.A, Calif. State Col. Long Beach, 59, M.A, 61; Ph.D. (clin. psychol), Texas, 64. ASST. PROF. psychol, San Jose State Col, 65-66; CHILD DEVELOP, WASHINGTON STATE, 66- Psychol. Asn. Personality development; social learning, especially imitative behavior in children. Publ: Co-auth, Personality research: a book of readings, Prentice-Hall, 66; auth, Affiliative behavior as a function of approach and avoidance affiliation motives, opinion evaluation and birth order, J. Soc. Psychol, 67. Address: Dept. of Child & Family Studies, Washington State University, Pullman, Wash. 99163.

HAMILTON, PROF. MILDRED ECKHARDT, b. Allentown, Pa, May 31, 15; m. 40. PSYCHOLOGY. B.A, Temple, 38; M.A, Columbia, 39, Ph.D.(psychol), 43. Sr. youth counsr, Nat. Youth Admin, 41; assoc. prof. PSYCHOL, Cedar Crest Col, 43-49; asst. prof, QUEENS COL.(N.Y), 49-50, ASSOC. PROF, 60- AAAS; fel. Psychol. Asn; Soc. Res. Child Develop. Mental measurement; contribution of practice differences to group variability; child development. Address: Dept. of Psychology, Queens College, Flushing, N.Y. 11367.

HAMILTON, DR. RANDY H(ASKELL), b. New York, N.Y, Dec. 27, 21; m. 60; c. 2. PUBLIC ADMINISTRATION, POLITICAL SCIENCE. B.A, North Carolina, 43, M.A, 47, M.C.R.P, 49; Ph.D.(polit. sci), Zurich, 63. City mgr, Carolina Beach, N.C, 49-52; Wash. dir, Am. Munic. Asn, 52-56; munic. mgt. & local govt. adv, Royal Govt. Thailand, 57-64; urban studies proj. dir, UN-Inst. Pub. Admin, 64-65; EXEC. DIR, INST. LOCAL SELF-GOVT, 65- Consult, adv. local govt. cmt, President's Coun. Econ. Adv, 52-56; adv. cmt, govt. div, bur. census, U.S. Dept. Commerce, 52-56, bur. pub. rd. & hwy. res. bd, 52-56; adv. cmt, water pollution adv. bd, U.S. Pub. Health Serv, 52-56; local govt. consult, Cmt. Econ. Develop, 52-56; Chamber Commerce of U.S, 52-56. U.S.A.F, 42-46. Soc. Pub. Admin; Polit. Sci. Asn. Local government public administration; manpower resources utilization and development. Publ: Comparative municipal government, Thammasat Univ, 62. Address: Institute for Local Self-Government, Claremont Hotel Bldg, Berkeley, Calif. 94705.

HAMILTON, DR. RICHARD EDWARD, b. Toronto, Ont, Apr. 21, 39; m. 66. ECONOMICS. B.A, Toronto, 61; univ. fels, 62 & 63, Duke, Am. Inst. Indian Studies jr. fel & Univ. Commonwealth Centre fel, 64, Ph.D.(econ), 66. ASST. PROF. ECON, YORK (ONT), 65- Mem, Can. Inst. Int. Affairs. Am. Econ. Asn. Economic development in underdeveloped countries; economics of government corporations in India. Address: Dept. of Economics, York University, Toronto 12, Ont, Can.

HAMILTON, DR. ROBERT V(ICTOR), b. Ponca City, Okla, Nov. 1, 20; m. 49; c. 4. PSYCHOLOGY. B.A, Oklahoma, 41, M.S, 43; fel. & Ph.D.(psychol), Nebraska, 52. Personnel mgr, Rheem Mfg. Co, Ill, 43-45; consult. psychol-

ogist, Donohue & Co, 45-48; assoc. prof. psychol, Nebr. Wesleyan, 48-50; res. assoc, Nebraska, 50-52; asst. prof. psychol, Wichita, 52-56; clin. psychologist, Adams, Newsom & Morrow Psychiat. Clin, 54-56, dir. dept. soc. & indust. psychol, 56-60; PROF. PSYCHOL, MASS. STATE COL, NORTH ADAMS, 60-, DIR. GRAD. & CONTINUING STUDIES PROG, 61-, CHMN. DEPT. PSYCHOL. & ED. DIV, 63- Dir. mgt. res. & serv, Boeing Airplane Co, 57-59, exec. rels. dir, 59-60; chief psychologist, North. Berkshire Ment. Health Asn, 60-63. Consult. psychologist, Mass. Rehab. Cmn, 62-; div. child guardianship, Mass. Welfare Dept, 62-; North. Berkshire Child Guid. Center, 63-; private practice, 65- Psychol. Asn. Personality; psychotherapy; learning disabilities. Publ: Psycholinguistic analysis, J. Soc. Psychol; Television in the social matrix, Pub. Opinion Quart. Address: Dept. of Psychology, Massachusetts State College at North Adams, North Adams, Mass. 01247.

HAMILTON, PROF. ROGER S(TANTON), b. Thurman, N.Y, Aug. 9, 04. ECONOMICS. A.B, Pittsburgh, 29; Braker fel, Tufts Col, 29-31, A.M, 31; Ph.D, Harvard, 40. Instr. econ, NORTHEASTERN, 31-33, asst. prof, 33-38, assoc. prof, 38-42, prof. & chmn. dept, 42-67, dean col. bus. admin, 44-67, EMER. PROF. ECON, 66-; PROF, NEW ENG. COL, 66- Address: Bradford Rd, Henniker, N.H. 03242.

HAMILTON, DR. RUTH SIMMS, b. Savannah, Ga, June 21, 37; m. 65; c. 1. SOCIOLOGY. B.A, Talladega Col, 58; M.A, Northwestern, 62, African studies fel. & travel grant, 62-65, Ph.D.(sociol), 66. Soc. worker, dept. urban renewal, City of Savannah, Ga, 59-60; teaching asst. SOCIOL, Northwestern, 60-62; ASST. PROF, IOWA STATE, 65- Sociol Asn. Urbanization and social change, particularly countries undergoing rapid social transformation; cross-cultural application of theoretical models. Publ: Urbanization in West Africa: a review of current literature, Northwestern Univ, 65; The Savannah story: education and desegregation, In: Our children's burden, Random, 68. Address: Dept. of Sociology, Iowa State University, Ames, Iowa 50010.

HAMILTON, PRES. THOMAS HALE, b. Marion, Ind, Aug. 4, 14; m. 40; c. 2. SOCIAL SCIENCE. A.B, DePauw, 36, hon. LL.D, 61; A.M, Chicago, 40, Ph.D, 47; hon. L.H.D, Alfred, 60; hon. LL.D, Rollins Col. & Colgate, 61, Southern California, 67; hon. D.H, Oakland, 67. Prof. polit. sci. & v.pres, Chatham Col, 48-53; dean basic col, Mich. State, 54-56, v.pres. acad. affairs, 56-59; PRES, State Univ. N.Y. Albany, 59-63; HAWAII, 63- Consult, Coun. Study Higher Ed, Fla, 55; South. Regional Ed. Bd, 56; Philippines, 58-59. Mem. U.S. del, U.S.-Japan Conf. Cultural & Ed. Interchange, Tokyo, 66; int. adv. cmt, Center Int. Exchange Int. Tech, 67-; dir, Am. Coun. Ed, 60-63, 66- U.S.N, 43-46. Polit. Sci. Asn; Soc. Pub. Admin. Higher education; content analysis. Publ: Co-auth, Armed services and adult education, Am. Coun. Ed, 48 & Basic college of Michigan state, Mich. State Col, 55; auth, The democracy of excellence, Univ. Hawaii, 65. Address: University of Hawaii, Honolulu, Hawaii 96822.

HAMILTON, DR. WILLIAM C(OWLES), b. New Britain, Conn, July 23, 22; m. 46. INTERNATIONAL RELATIONS. B.A, Yale, 47, M.A, 49, Ph.D.(int. rels), 55. Intel. res. specialist, U.S. Dept. State, 51-55, for. serv. officer, 55-62, first secy, Am. Embassy, Vientiane, Laos, 62-64; dep. dir. far east region, off. asst. secy. defense for int. security affairs, U.S. Dept. Defense, 64-66; country dir. Laos, U.S. DEPT. STATE, 66-67, COUNSELOR POLIT. AFFAIRS, AM. EMBASSY, BANGKOK, THAILAND, 67- Sig.C, U.S.A, 43-46. Southeast Asia politics; public opinion. Address: American Embassy, APO San Francisco 96346.

HAMISTER, DR. RICHARD C(ARLTON), b. Cleveland, Ohio, Aug. 10, 19; m. 42; c. 2. CLINICAL PSYCHOLOGY. A.B, Kenyon Col, 42; M.A, Stanford, 48, Ph.D.(psychol), 50. Chief for psychodiagnosis, VET. ADMIN. HOSP, 49-55, asst. chief psychologist, 55-58, CHIEF CLIN PSYCHOLOGIST, 58- Consult, San Mateo County Probtn. Dept, 51-56. U.S.A.A.F, 42-45, Lt. Psychol. Asn. Selection of psychiatric aids; psychotherapy with schizophrenics. Publ: Test retest reliability of the Wechsler-Bellevue intelligence scale; An investigation of patient and staff opinions relative to the effectiveness of neuropsychiatric hospital staff members. Address: Veterans Administration Hospital, Palo Alto, Calif. 94304.

HAMLETT, DR. IONA C, b. Austin, Tex, Dec. 12, 01; div; c. 2. PSYCHOLOGY. Ph.D, Indiana, 34. DIR. PSYCHOL. SERV, FT. WAYNE STATE HOSP. & TRAINING CENTER, 34- Psychol. Asn; Asn. Ment. Deficiency. Publ: Co-auth, Constancy of the I.Q. with mentally deficient patients as measured by the time appreciation test, Comparison of mental defectives and normal children in ability to handle clock and calendar situations & Mental health analyses of furlough patients. Address: Box 5131, Station A, Ft. Wayne, Ind. 46805.

HAMLIN, PROF. C(HARLES) H(UNTER), b. Burkeville, Va, Nov. 16, 90. SOCIAL SCIENCE. A.B, Col. William & Mary, 14; A.M, Virginia, 17; Chicago, 22; Ph.D, Peabody Col, 41; hon. Litt.D, Atlantic Christian Col, 68. Mem. dept. hist, Culver-Stockton Col, 20-25; PROF. SOC. SCI. & HEAD DEPT, ATLANTIC CHRISTIAN COL, 25- Soc. Sci. Res. Coun. grant-in-aid, 33. Dir, South. Ed. Fund, Inc. Hist. Asn. Lobbyists and lobbying in the North Carolina legislature; ninety bits of North Carolina biography; disciples of Christ and the war between the states. Publ: War myth in U.S. history; A scrap book of reflections, Braun-Brumfield, 67. Address: Dept. of Social Science, Atlantic Christian College, Wilson, N.C. 27893.

HAMLIN, DR. ROY M(ILLER), b. Hannibal, Mo, Feb. 19, 08; m. 40; c. 4. PSYCHOLOGY. A.B, Pittsburgh, 29; M.A, Columbia, 34, Ph.D, 44. Psychologist, res. dept, Letchworth Village, N.Y, 36-41; Norristown State Hosp, Pa, 41-42; Suffolk County Ment. Hyg. Clin, Riverhead, N.Y, 42-44; State Bur. Ment. Hyg, Hartford, Conn, 44-45; chief psychologist, Vet. Ment. Hyg. Clin, Pittsburgh, Pa, 46-51; PROF. PSYCHOL, Pittsburgh, 51-60; ILLINOIS, 60-; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, 60- Vis. prof, Brooklyn Col, 62-63. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 45-46, Lt.(jg). AAAS; Psychol. Asn. Psychopathology; symbolical behavior; intellectual deficit; schizophrenia; personality. Publ: The clinician as judge: implications of a series of studies, J. Consult. Psychol, 54; co-auth, Effect of enriched input on schizophrenic abstraction, J. Abnorm. Psychol, 65; auth, A utility theory of old age, Gerontologist, 67. Address: Veterans Administration Hospital, Danville, Ill. 61832.

HAMMEL, PROF. EUGENE A(LFRED), b. New York, N.Y, Mar. 18, 30; m. 51; c. 3. ANTHROPOLOGY. A.B, California, 51, Kofoid fel, 55-57, Soc. Sci. Res. Coun. fel, 57-58, Ph.D.(anthrop), 59. Asst. prof. ANTHROP, New Mexico, 59-61; CALIFORNIA, BERKELEY, 61-66, PROF, 66- Fel, Center Adv. Study Behav. Sci, 62-63; Guggenheim fel, 65-66. U.S.A, 51-54. AAAS; fel. Anthrop. Asn; Soc. Archaeol; fel. Royal Anthrop. Inst. Gt. Brit. Linguistics; social structure; peasant societies of Europe and Latin America; formal analysis; computer applications. Publ: Wealth, authority and prestige in the Ica Valley, Peru, Univ. N.Mex. Pubs. in Anthrop; Family cycle in a coastal Peruvian slum and village, Am. Anthropologist; Some models for the analysis of marriage-section systems, Oceania. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

HAMMEL, DR. ROBERT WARREN, b. Praire du Chien, Wis, May 7, 25; m. 48; c. 3. PHARMACY ADMINISTRATION. B.S, Wisconsin, 48, M.B.A, 56, Ph.D. (admin), 59. Asst. prof. PHARM. ADMIN, WISCONSIN, 58-62, ASSOC. PROF, 62- Nat. Sci. Found. vis. scientist, 65- Mem. adv. cmt. Smith Kline & French Labs, 66- U.S.N, 44-46, 52-54, Res, 54-, Lt. Comdr. Acad. Pharmaceut. Sci; Asn. Cols. Pharm; Mkt. Asn. Pharmaceutical marketing and marketing research; economic, legal and professional aspects of drug distribution and utilization. Publ: Co-auth, Physician owned pharmaceutical companies—a wrong without a remedy, Food-Drug-Cosmetic Law J, 66, Insuring families against the cost of prescribed drugs, J. Am. Pharmaceut. Asn, 67 & Pharmacy schools' services to student health clinics and related activities, Am. J. Pharmaceut. Ed, 67. Address: School of Pharmacy, University of Wisconsin, Madison, Wis. 53706.

HAMMEN, PROF. OSCAR J(OHN), Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HAMMER, DR. CHARLES HOWARD, b. Newark, N.J, Apr. 3, 33; m. 58. PSYCHOLOGY. A.B, Connecticut, 55; M.S, Purdue, 56, Ph.D, 58. Res. psychologist, personnel res, U.S. Army Personnel Res. Off, 58-60, proj. dir, 60-61, sr. proj. dir, 61-65; sr. soc. sci. analyst, U.S. Info. Agency, 65-68; PROG. OFFICER, U.S. OFF. ED, 68- Psychol. Asn. Personnel measurement and evaluation. Publ: A survey of women's aptitudes for army jobs, Personnel Psychol, summer 63; The effects of amount of information provided and feedback of results on decision making efficiency, 12/65 & Information assimilation from coded and uncoded individual and group displays, 6/65, Human Factors. Address: 13518 Collingwood Terr, Silver Spring, Md. 20904.

HAMMER, DR. DARRELL P, b. Burlington, Iowa, Nov. 18, 30; m. 63; c. 1. POLITICAL SCIENCE. A.B, Wichita State, 52; A.M, Washington (Seattle), 54; Leningrad State, 59-61; Ford Found. Fel. & Ph.D.(polit. sci), Columbia, 62. Lectr. GOVT, INDIANA, 61-62, asst. prof, 62-64, ASSOC. PROF, 64- Soc. Sci. Res. Coun. fel, 65-66; vis. assoc. prof, Columbia, 68. Polit. Sci. Asn. Comparative politics; politics in the Union of Soviet Socialist Republics; political decision making. Address: Dept. of Government, Indiana University, Bloomington, Ind. 47401.

HAMMER, DR. EMANUEL F(REDERICK), b. Brooklyn, N.Y, Aug. 15, 26; m. 50; c. 2. CLINICAL PSYCHOLOGY. B.A, Syracuse, 48; Ph.D.(clin. psychol), N.Y. Univ, 51. Dir. intern training, Lynchburg State Colony, 51-52; PRIVATE PRACTICE, 52-; CHIEF PSYCHOLOGIST, LINCOLN INST. PSYCHOTHER, 60- Psychologist, Child Guid. League, 52-62; sr. res. scientist psychol, N.Y. Psychiat. Inst, 52-55; dir, Manhattan Psychol. Center, 54-56; supvr, grad. sch. arts & sci, N.Y. Univ, 64-; faculty mem. & dir. res, Metrop. Inst. Psychoanal. Studies, 65-; faculty, Nat. Psychol. Asn. for Psychoanal, 66- Consult, Home-Term Court Alcoholic Clin, New York; psychol. consult, high schs; Center Creative Living, 64- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 62. U.S.A.A.F, 45-46. Fel. Psychol. Asn; fel. Anthrop. Asn; Soc. Proj. Tech. & Personality Assessment. Social and cultural influences on personality; developmental personality studies of children; psychotherapeutic and psychoanalytic process; the use of interpretation and insight in treatment. Publ: Clinical application of projective drawing, C.C. Thomas, 58; Creativity, Random, 61; Interpretation in treatment—technique and art, Grune, 68. Address: 381 West End Ave, New York, N.Y. 10025.

HAMMER, DR. LOIS REEL, b. Jenera, Ohio, Feb. 2, 35; m. 57; c. 1. PSYCHOLOGY. B.A, Bowling Green State, 57; M.A, Minnesota, 59; Nat. Sci. Found. fel, Harvard, 61-63, Ph.D.(psychol), 65. Staff fel, Nat. Inst. Ment. Health, 63-65; ASST. PROF. PSYCHOL, GEORGE WASHINGTON, 65- Psychol. Asn. Learning and motivation; reinforcement theory. Publ: Perception of the visual vertical under reduced gravity, Aerospace Med. Lab, 62; co-auth, Weightlessness, In: Unusual environments and human behavior, Macmillan, 63; auth, Saccharin and sucrose intake in rats: long and short-term tests, Psychonomic Sci, 67. Address: Dept. of Psychology, George Washington University, Washington, D.C. 20006.

HAMMER, DR. LOWELL CLARKE, Speech Path, Audiol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HAMMER, DR. MURIEL, b. New York, N.Y, Nov. 7, 27; m. 48; c. 2. CULTURAL ANTHROPOLOGY. B.A, Ohio, 47; M.A, Columbia, 48, Ph.D, 61. Asst. res. scientist anthrop, biomet. res. unit, Columbia, 57-59, res. scientist, 59-62, sr. scientist, 62-66; ASSOC. RES. SCIENTIST, BIOMET. RES. UNIT, N.Y. STATE DEPT. MENT. HYG, 66- Lectr, City Col. New York, 58-59, 60-61; fel, N.Y. State Dept. Ment. Hyg, 64-65; prin. investr, Nat. Sci. Found. grant, 64-66; asst. prof, dept. anthrop, N.Y. Univ, 66-67; res. assoc, dept. psychiat, Columbia, 67- AAAS; Anthrop. Asn. Social organization; mental illness; sociolinguistics. Publ: Influence of small social networks as factors in mental hospital admission, Human Orgn, winter, 63-64; Some comments on formal analysis of grammatical and semantic systems, Am. Anthrop, 4/66; co-auth, Evolution, culture and psychopathology, J. Gen. Psychol, in press. Address: Psychiatric Institute, 722 W. 168th St, New York, N.Y. 10032.

HAMMER, PROF. PRESTON C(LARENCE), Math, Comput. Sci, see 11th ed, Phys. & Biol. Vols.

HAMMERSCHMIDT, DR. WILLIAM W(ARNER), Pub. Policy, see 11th ed, Phys & Biol. Vols.

HAMMES, DR. JOHN ANTHONY, b. Sault St. Marie, Mich, Nov. 1, 24. PSYCHOLOGY. B.A, Duquesne, 48; M.A, Catholic Univ, 50; Ph.D, Pa. State, 53. Voc. appraiser, guid. center, Catholic Univ, 49-50; res. assoc, HumRRO, Ga, 53-56; asst. prof. PSYCHOL, GEORGIA, 56-62, assoc. prof, 62-68, PROF, 68-, DIR. CIVIL DEFENSE RES, 62- U.S.N, 43-46, Lt.(jg). Psychol. Asn. Group dynamics; personality; motivation; fallout shelter studies. Publ: Personal distance effect as a function of esthetic stimulus, anxiety, and sex, 64 & co-auth, Fallout shelter survival research, 66, J. Clin. Psychol; co-auth, Survival research in group isolation studies, J. Appl. Psychol, 66. Address: 235 Davis Estates Rd, Athens, Ga. 30601.

HAMMING, PROF. EDWARD, b. Warfum, Netherlands, Mar. 2, 15; nat; m. 46; c. 2. GEOGRAPHY. B.S, Minn. State Teachers Col, St. Cloud, 47; M.S, Chicago, 48, Ph.D.(geog), 52. From assoc. prof. to PROF. GEOG, AUGUSTANA COL, 49- U.S.A, 43-46. AAAS; Asn. Am. Geog; Coun. Geog. Ed. Publ: The port of Milwaukee. Address: 3114 18th Ave, Rock Island, Ill. 61201.

HAMMOCK, PROF. JOSEPH, b. Cullman Co, Ala, Sept. 20, 26; m. 47; c. 3. EXPERIMENTAL PSYCHOLOGY, PSYCHOMETRICS. B.S, South Carolina, 48, M.A, 50; Ph.D.(psychol), Tennessee, 53. Instr. psychol, South Carolina, 49-50; psychometrician, state testing off, Univ. Tennessee, 51-52; res. psychologist, HumRRO, George Washington, 52-55; asst. prof. psychol, Georgia, 55-56; dir. res, human res. unit, U.S. Army Air Defense, Ft. Bliss, Tex, 56-59; res. psychologist, communications soc. sci. res. lab, Bell Tel. Labs, Inc, 59-62; PROF. PSYCHOL. & HEAD DEPT, GEORGIA, 62- U.S.N, 44-47, Res, 47-57, Lt.(jg). AAAS; Psychol. Asn. Analysis of knowing and instructing behavior, development of behavioral technologies and cultures. Publ: Marksmanship as a function of stress and anxiety & Criterian measures: selection versus instructional research, Am. Psychologist; co-auth, Books as teaching machines: some data, In: Applied programmed instruction. Address: Dept. of Psychology, University of Georgia, Athens, Ga. 30601.

HAMMOND, DR. CHARLES, b. Canton, Ill, Nov. 14, 27. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Illinois, 49, M.A, 54, Ph.D.(econ), 58. Asst. prof. bus. admin, Muskingum Col, 57-58; lectr. econ, overseas br, Maryland, 58-60; int. economist, European regional affairs staff, U.S. Dept. Commerce, 60-63, int. economist, U.K. desk officer, 63-66; FINANCIAL ECONOMIST, EXPORT IMPORT BANK, 66- U.S.A, 51-53. Econ. Asn. Factors influencing economic growth of underdeveloped and developed areas. Publ: Basic data on the economy of Belgium, World Trade Info. Serv; EFTA offers a challenging market to U.S. business, 10/63 & British government launches new program for export incentives, 2/65, Int. Commerce. Address: 1705 Harvard St. N.W, Washington, D.C. 20009.

HAMMOND, PROF. EDWIN H(UGHES), Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HAMMOND, PROF. JAMES D(ILLARD), b. Maitland, Mo, Nov. 14, 33; m. 60. ECONOMICS. A.B, Northwest Mo. State Col, 55; Huebner Found. fel, Pennsylvania, 55-58, Ph.D.(econ), 61. Instr. ins, Wharton Sch. Finance, Pennsylvania, 58-59; asst. prof. econ, Ohio State, 59-64; ASSOC. PROF. BUS. ADMIN, PA. STATE, 64- Res. staff, ins. panel, Nat. Adv. Cmn. Civil Disorders, 67-68. Econ. Asn. Insurance. Publ: Co-auth, Essentials of life insurance, Scott, 68; auth, Research and development activities of life insurance companies, 3/66 and co-auth Determinants of household life insurance premium expenditures, 9/67, J. Risk & Ins. Address: College of Business Administration, Pennsylvania State University, University Park, Pa. 16802.

HAMMOND, DR. JEROME W, b. Lisbon, N.Dak, Aug. 9, 33; m. 57; c. 3. AGRICULTURAL ECONOMICS. B.A.B.A, Minnesota, 58; M.S, Wisconsin, 60, Ph.D.(agr. econ), 63. Res. asst. mkt. res, Wis. Coun. Agr. Coop, 59-60; asst. prof. AGR. ECON, N.Dak. State, 63-64; res. assoc, MINNESOTA, ST. PAUL, 64-67, ASST. PROF, 67- Consult, Nat. Cmn. Food Mkt, 65-66. U.S.A, 52-55. Agr. Econ. Asn. Agricultural prices; the structure of agricultural markets. Address: Dept. of Agricultural Economics. University of Minnesota, St. Paul, Minn. 55101.

HAMMOND, DR. LEIGH HUGH, b. West Union, S.C, July 4, 29; m. 57; c. 4. AGRICULTURAL ECONOMICS. B.S, Clemson, 50; M.S, Tennessee, 55; Ph.D. (agr. econ), N.C. State, 61. Mgt. trainee, sampling dept. Deering Millikin Corp, S.C, 50-52; res. asst. agr. econ, Tennessee, 54-55; asst. prof, Texas A&M, 55-57; res. asst, N.C. State, 57-58; economist, U.S. Dept. Agr, N.C, 58-62; dir. statist. & econ, Nat. Canners Asn, Wash, D.C, 62-64; ASSOC. PROF. ECON, N.C. STATE, 64- Consult, Grocery Mfrs. Am, N.Y, 66; Lemark Res, Inc, 66-; U.S. Dept. Agr, Alaska, 67; Agri Res, Inc, Manhattan, Kans, 67- Qm.C, U.S.A, 52-54, 1st Lt. Econ. Asn; Agr. Econ. Asn; Mgt. Asn. Food marketing; business management systems; investment feasibility analysis; regional economic development; management and quality control systems; market entry strategy. Publ: Ed, Competition in food marketing, Agr. Policy Inst, N.C. State Univ, 5/67; co-auth, The feasibility of producing and processing certain vegetables in southeastern N.C, 8/67 & An economic analysis of preserving facilities for roadside market, 8/67, Dept. Econ. N.C. State Univ. Address: Dept. of Economics, North Carolina State University, Box 5576, Raleigh, N.C. 27607.

HAMMOND, DR. PAUL YOUNG, b. Salt Lake City, Utah, Feb. 24, 29; m. 50; c. 4. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Utah, 49; M.A, Harvard, 51, Ph.D.(polit. sci), 53; Fulbright scholar, London Sch. Econ, 52-53. Instr. govt, Harvard, 53-55; acad. consult. int. rel, Naval War Col, 55; Forrestal fel. naval hist, U.S. Naval Acad, 56; lectr. POLIT. SCI, Columbia, 56-57; asst. prof, Yale, 57-62; res. assoc, Wash. Center For. Policy Res, Hopkins, 62-64; SR. STAFF MEM, RAND CORP, 64- Rockefeller fel, 62-63. Consult, Inst. Defense Anal, 61-63; Hudson Inst, 61-64; Systs. Develop. Corp, 62-64; joint cmt. atomic energy, U.S. Cong, 62-64; Dept. of Defense, 63-64. Polit. Sci. Asn. United States foreign relation, politics, administration, policy; international politics; organization theory; research and development administration; comparative foreign policy formulation and execution; United States military assistance programs; military strategy. Publ: Organizing for defense, Princeton, 61; Strategy, politics and defense budgets, Columbia, 62; The United States in a disarmed world, Johns Hopkins, 66. Address: Rand Corp, 1700 Main St, Santa Monica, Calif. 90406.

HAMMOND, DR. PETER B, b. Glendale, Calif, Aug. 7, 28; m. 60; c. 1. ANTHROPOLOGY. A.B, Univ. of the Americas, 51; French Ministry For. Affairs fel, Ford Found. fel. & Ph.D, Northwestern, 62. Asst. prof. ANTHROP, Pittsburgh, 57-62; assoc. prof. Indiana, 62-66; RES. & WRITING, 66- Anthrop. Asn; African Studies Asn. Ethnological theory African ethnography, especially of the former French territories, and those of Spain and Portugal; Negroes in the new world; Indian-Negro-white acculturation; comparative technology. Publ: Cultural and social anthropology, 64, Physical anthropology and archaeology, 64 and Yatenga, technology in the culture of a West African Kingdom, 66, Macmillan. Address: Institute of Southern History, Johns Hopkins University, Baltimore, Md. 21218.

HAMMOND, DR. PHILLIP E(VERETT), b. Salem, Ore, Feb. 14, 31; m. 57; c. 2. SOCIOLOGY. B.A, Willamette, 52, M.A, 54; M.A, Columbia, 57; Ph.D. (sociol), 60. Instr. SOCIOL, Yale, 60-62, asst. prof, 62-65; WISCONSIN, 65-66, ASSOC. PROF, 66- Danforth Found. res. fel, 64-65. Sociol. Asn; Soc. Sci. Study Relig. Sociology of religion, especially religious professionals, church organizations and the relationship between religion and law. Publ: Ed, Sociologists at work, 64 & auth, Campus Clergyman, 66, Basic Books; co-auth, Religion in social context, Random, 68. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

HAMMOND, RICHARD J, b. London, Eng, Mar. 4, 11; m. 40; c. 2. ECONOMIC HISTORY, PUBLIC ADMINISTRATION. B.A, London Sch. Econ, 31, M.A, 34. Prof. Eng, Inst. Econ. & Finance, Lisbon, 35-38; sr. mem. staff, civil sect, United Kingdom Off. War Hist, 42-59; economist & prof, food res. inst, Stanford, 59-66; CONSULT, STANFORD RES. INST, 66- Application of the historical method to contemporary economic questions: history of Portugal in ninteenth and twentieth centuries. Publ: Official history of wartime food policy and administration in U.K, Vols. I, II & III: Portugal and Africa, 1815-1910, Stanford, 66; Convention and limitation in benefit-cost analysis, Natural Resources J, 4/66. Address: 1654 Portola Ave, Palo Alto, Calif. 94306.

HAMMOND, ROSS W, b. New York, N.Y, Mar. 20, 18; m. 46. INDUSTRIAL ENGINEERING, ECONOMIC DEVELOPMENT. B.S, Texas, 51, M.S, 52. Area develop. engr, Tex. Elec. Serv. Co, 51-60; indust. mgr, Chamber Commerce, Lubbock, Tex, 60-61; head northwest Ga. br, indust. develop. div, Ga. Inst. Tech, 61-62; exec. dir, Am. Inst. Indust. Engrs, 62-63; dir. area develop, GA. INST. TECH, 63-65, CHIEF INDUST. DEVELOP. DIV, 65- Mem, South. Indust. Develop. Coun, 59- U.S.A.A.F, 43-46, 2nd Lt. Inst. Indust. Eng.(pres, 66-67). Economic development including economic research, identification of manufacturing opportunities and technical and management assistance to industry. Publ: Your future in industrial engineering, Richards Rosen, 65. Address: Engineering Experiment Station, Georgia Institute of Technology, Atlanta, Ga. 30309.

HAMMOND, DR. THOMAS TAYLOR, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HAMMOND, DEAN WILLIAM ROGERS, b. Atlanta, Ga, Oct. 19, 20; m. 47; c. 2. BUSINESS MANAGEMENT. B.S, Ga. State Col, 41; M.B.A, Harvard, 43; D.B.A, Indiana, 54. Assoc. prof. acct, GA. STATE COL, 46-51, prof. & chmn. dept, 51-56, assoc. dean SCH. BUS. ADMIN, 56-58, DEAN GRAD. STUDIES, 58- A.U.S, 43-46, Capt; Bronze Star Medal. Acad. Mgt; Risk & Ins. Asn. Organization; organization control. Publ: Co-auth, How to solve accounting problems intermediate and advanced, Prentice-Hall, 61; Organization and enterprise, Nexus Pub, 64; Insurance accounting-fire and casualty, Chilton, 65. Address: School of Business Administration, Georgia State College, 33 Gilmer St. S.E, Atlanta, Ga. 30303.

HAMMONDS, DR. ANDRÉ DON, b. Chattanooga, Tenn, Oct. 1, 36; m. 60. SOCIOLOGY. B.A, Morehouse Col, 59; cert. French studies, Grenoble, 58; Nat. Defense fel. Tennessee, 59-62, Ph.D.(sociol), 63. Assoc. prof. SOCIOL, Winston-Salem State Col, 63-64; asst. prof, INDIANA STATE, 64-67, ASSOC. PROF, 67- Rural Sociol. Soc. Respondent bias in survey research; Anomia and socio-economic status. Publ: Co-auth, Effect of racial characteristics of investigator on self-enumerated responses to a Negro prejudice scale, Soc. Forces, 6/66. Address: Dept. of Sociology, Indiana State University, Terre Haute, Ind. 47802.

HAMNER, PROF. HOMER H(OWELL), b. Lamont, Okla, Oct. 22, 15; m. 43, 47; c. 2. ECONOMICS. A.B, Southern California, 38, J.D, 41, fel. & scholar, 45-48, A.M, 47, Ph.D, 49. Asst. econ, Southern California, 45-49; prof. & chmn. dept, Baylor, 49-55; prof. econ. & bus. admin. & chmn. dept, PUGET SOUND, 55-63, Edward L. Blaine Chair, econ. hist, 63-67, EDWARD L. BLAINE PROF. BUS. ADMIN. & ECON, 67-, dir. sch, 59-63. Fel, Found. Econ. Ed, 53; Inst. Free Enterprise, 55; fel, Fed. Reserve Bank San Francisco Seminar, 64. Consult, State Tax Adv. Coun, Wash, 57-58; State Expenditures Adv. Coun, 60. Mem. bd. dirs, Am. Triad Corp, 65- U.S.A, 41-44. Econ. Asn; Finance Asn. Public finance; population change in metropolitan Waco. Address: School of Economics & Business Administration, University of Puget Sound, Tacoma, Wash. 98416.

HAMORI, DR. PAUL, b. Budapest, Hungary, Apr. 21, 27; U.S. citizen, m. 58; c. 4. POLITICAL SCIENCE, LAW. B.A, Pazmany Peter Univ, Hungary, 47, M.L, 50, S.J.D, 51, Ph.D.(polit. sci), 53; Ph.D.(polit. sci), Michigan, 64. Instr. POLIT. SCI, Flint Community Jr. Col, 61-66; ASST. PROF, BALL STATE, 66- Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Am. Soc. Int. Law. Coalition government as a means of Soviet foreign policy; modern strategic concepts; reasons for military regimes in underdeveloped countries; Hungarian revolution. Address: Dept. of Political Science, Ball State University, Muncie, Ind. 47306.

HAMP, PROF. E(RIC) P(RATT), Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

HAMPSON, C(HARLES) M(ARLOWE), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

HAMPTON, PROF. PETER J(AN), b. Warwarowka, Russia, Oct. 18, 09; nat; m. 43; c. 4. PSYCHOLOGY. B.A, Manitoba, 38, M.A, 40; Minnesota, 41-47; Ph.D, Western Reserve, 50. Asst. prof. PSYCHOL, Brandon Col, 40-43; Western Col, 43-44, assoc. prof, 44-45, acting head dept, 43-45; asst. prof, Western Reserve, 45-53; prof. & chmn. dept, Muskingum Col, 53-54; ASSOC. PROF. & DIR. PSYCHOL. SERVS, AKRON, 54- Civilian army psychologist, Can. Army, 41-42. Consult, Utley Assocs, Ohio, 44-45; Personnel Res. Inst, 45-53; private practice, 45- Psychol. Asn; Can. Psychol. Asn. Alcoholism; psychotherapy; industrial and clinical psychology. Publ: Development of a personality questionnaire for drinkers, Genetic Psychol. Monogr; Emotional element in music, J. Gen. Psychol; contrib, Psychology of the alcoholic, In: Psychology for law enforcement officers. Address: 1416 Delia, Akron, Ohio 44320.

HAMPTON, DR. RICHARD JOHN, b. Spencer, Iowa, May 22, 22; m. 45; c. 2. PHARMACEUTICAL ECONOMICS & MARKETING. B.S, Washington State, 47, M.S, 48, M.A, 56; Am. Found. Pharmaceut. Ed. fel, Wisconsin, 57-58, Ph.D.(pharm. admin), 61. Instr. pharm, Washington State, 48-56, asst. prof, 56-59; assoc. prof. pharmaceut. econ, Florida, 59-66; DIR. PHARMACEUT. ED. DIV, LEA ENTERPRISES, INC, 66- Vis. scientist, Am. Asn. Cols. Pharm, 64-65. U.S.N.R, 44-46. Acad. Pharmaceut. Sci. Pharmaceutical marketing especially advertising and promotion by industry and community pharmacy management. Publ: Merchandise control in the retail pharmacy, Washington State Univ, 57; Relationship of variations in sales and promotion of ethical pharmaceutical products, Mod. Med. Topics, 4-8/62. Address: Pharmaceutical Education Division, Lea Enterprises, Inc, Ambler, Pa. 19002.

HAMSTRA, R(OBERT) H(OLLIS), b. Rochester, N.Y, Apr. 7, 17; m. 39; c. 5. INDUSTRIAL PSYCHOLOGY. B.A, Yankton Col, 38; M.A, Iowa, 39. Res. supvr, Iowa, 39-42; personnel dir, Johns Manville Corp, 42-44; v.pres, Robert N. McMurry & Co, 44-48; PRES, McMurry, Hamstra & Co, 48-58; HAMSTRA & CO, 58- Psychol. Asn; Indust. Rels. Res. Asn. Human affairs in industry; market research; public relations; personnel administration; labor relations; management organization. Address: Hamstra & Co, 434 N. Rodeo Dr, Beverly Hills, Calif. 90210.

HAN, DR. PAUL B, b. Korea, May 27, 27; U.S. citizen; m. 61; c. 1. ECONOMICS, MATHEMATICS. B.B.A, Emory, 55; Ph.D.(econ), Duke, 60. Asst. economist, eng. exp. sta, GA. INST. TECH, 58-60, asst. prof. indust. mgt, 60-64, assoc. prof, 64-66, ASSOC. RES. PROF. INFO. SCI, 67- Proj. mgt. specialist, Marshall Space Flight Center, NASA, 66; vis. assoc. prof, Chicago, 66. Proj. mgt. consult, Delta Corp, 66-67. Econ. Soc; Econ. Asn; Inst. Mgt. Sci. Control theory and operations research; design of an automatic credit transfer system. Publ: Tin cans: manufacturing opportunities for Georgia, 59 & co-auth, Research design to forecast demand,64, Ga. Inst. Tech; The burden of corporate income tax, Nat. Tax J, 57. Address: School of Industrial Management, Georgia Institute of Technology, Atlanta, Ga. 30332.

HANANIA, PROF. FARID, b. Jerusalem, Dec. 25, 08. POLITICAL SCIENCE, LAW. B.B.A, American Univ. Beirut, 31; B.A, Cambridge, 35, M.A. & LL.B, 39. Private practice, Eng, 40-45; adj. prof. commerce & econ, AMERICAN UNIV, BEIRUT, 45-46, assoc. prof. LAW, 46-51, PROF, 51-, CHMN. DEPT. POLIT. SCI. & LAW, 48-, dean faculty arts & sci, 54-65. Vis. prof, Virginia, 52-53. International law and organization. Address: Dept. of Political Science & Law, American University of Beirut, Beirut, Lebanon.

HANAWALT, PROF. ELLA MAY, b. Knox Co, Ill, Apr. 7, 89. PSYCHOLOGY. A.B, Michigan, 15, M.A, 27, fel, 28-29, Ph.D.(psychol), 29. Teacher, Ginling Col, Nanking, China, 21-26; asst. psychol, Michigan, 27-28; prof. psychol. & ed. & head dept, Milwaukee-Downer Col, 29-59; vis. prof. psychol, Northern Illinois, 59-62; vis. prof, Wartburg Col, 62-66; RETIRED. AAAS; Psychol. Asn. Animal and human learning; whole and part methods in trial and error learning. Address: 1725 N. Prospect Ave, Apt. 508, Milwaukee, Wis. 53202.

HANAWALT, DR. NELSON G(ILBERT), b. Lewistown, Pa, May 9, 06; m. 36; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Juniata Col, 27; A.M, Columbia, 31, Ph.D.(exp. psychol), 37. Asst. psychol, Columbia, 34-36; instr, DOUGLASS COL, RUTGERS, 36-40, asst. prof, 40-47, assoc. prof, 47-55, dir. clin. training, 54-62, chmn. dept. PSYCHOL, 54-66, chmn. grad. faculty psychol, 55-60, prof, 55-66, EMER. PROF, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 53. U.S.N.R, 43-46, Lt. Fel. Psychol. Asn. Memory; perception; personality. Publ: Memory trace for figures in recall and recognition, Arch. Psychol, 37; co-auth, Chap. 4, In: Current psychological issues, Holt, 58 & The effect of recall upon recognition, J. Exp. Psychol, 65. Address: Dept. of Psychology, Douglass College, Rutgers, The State University, New Brunswick, N.J. 08901.

HANCE, PROF. KENNETH G(ORDON), Speech, see 5th ed. Dir. of Am. Scholars, Vol. II, Eng, Speech & Drama.

HANCE, PROF. WILLIAM A(DAMS), b. New York, N.Y, Dec. 29, 16; m. 40; c. 2. ECONOMIC GEOGRAPHY. A.B, Columbia, 38, M.S, 41, Ph.D, 49. Asst. dean, Columbia Col, COLUMBIA, 46-49, assoc. prof. ECON. GEOG, GRAD. SCH. BUS, 49-59, PROF, 59-, CHMN. DEPT. GEOG, 63- Grants, Carnegie Corp, 52; Rockefeller Found, 62-63. Mem, Coun. For. Rels, 52; faculty adv. cmt, Am. Assembly, 62-; Cmn. Col. Geog, 63-68; adv. cmt, Columbia Univ. Press, 64- U.S.N.R, 44-46. Asn. Am. Geog; African Studies Asn.(pres, 66-67); Royal Geog. Soc; Royal African Soc. Transport and industrial development in Africa and Madagascar. Publ: African economic development; The geography of modern Africa, 64 & Southern Africa and the United States, 68, Columbia Univ. Press. Address: 106 Morningside Dr. New York, N.Y. 10027.

HANCHETT, DR. GERTRUDE ABY, b. Iowa City, Iowa, July 23, 91; m. 19; c. 2. SOCIAL PSYCHOLOGY. Ph.B, Chicago, 14; M.A, Syracuse, 35, Ph.D. (soc. psychol), 39. Resident doctor, Cornell, 43-44; INDEPENDENT RES, 44- Dir, child placement for summer rehab, Herald-Tribune Fresh Air Fund, N.Y, 51-55; Soc. Sci. Res. Center, Southeast Asia prog, India Proj, Cornell, 55; asst. to registr, Mt. Holyoke Col, 56; lectr, Col. Our Lady of the Elms, 64- Sociol. Asn. Measurement of attitudes toward the British; multiple scale. Publ: War producing behavior of citizens; Attitude toward the British; Multiple scale of attitudes toward the British. Address: 136 The Knolls, South Hadley, Mass. 01075.

HANCHETT, PROF. WALTER SIDNEY, JR, Russian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HANCOCK, DR. M. DONALD, b. McAllen, Tex, Aug. 20, 39; m. 65. POLITICAL SCIENCE. B.A, Texas, 61; Woodrow Wilson fel. & M.A, Columbia, 62, Ph.D.(polit. sci), 66; Swedish State Govt. grant, Stockholm, 63-64. Instr. GOVT, Columbia, 65; ASST. PROF, TEXAS, 65-, Res. Inst. grants, summer, 66 & 67-68. Univ. Denver res. assocs. prog. grant, 67-68; summers, vis. prof, Columbia, 67 & Relm Found. grant, 68. Am. Polit. Sci. Asn; Int. Polit. Sci. Asn. European comparative politics with special emphasis on Germany and Scandinavia; American foreign policy; Atlantic Community relations. Publ: Co-auth, Politics in the post-welfare state: a comparison of the United States and Sweden, Indiana Univ, 67; auth, Sweden: a multiparty system in transition?, Univ. Denver, 68. Address: Dept. of Government, University of Texas, Austin, Tex. 78712.

HANCOCK, DEAN ROBERT SPENCER, b. Lakota, N.Dak, Nov. 4, 17; m. 49; c. 3. MARKETING, ECONOMICS. B.S, N.Cent. Col.(Ill), 47; M.S, Illinois, 49, Ph.D.(econ), 56. Asst. prof. mkt, Illinois, 48-57; assoc. prof. mkt. & mkt. res. Minnesota, Minneapolis, 57-60, prof, 60-67; DEAN SCH. BUS, SOUTHERN ILLINOIS, 67- Small Bus. Admin. grant, 59-60. Consult, Mid Continent Surv, Minn, 60-67; comput. serv. center, Data Mgt, Inc, 59-65. U.S.A.A.F, 41-46, 51-52, Res, 52-, Lt. Col. Econ. Asn; Mkt. Asn. Legal framework of marketing, especially impact of antitrust laws on marketing behavior. Publ: Co-auth, Franchise system of distribution; The environment of marketing behavior, 64 & Marketing in a changing environment, 67, Wiley. Address: Southern Illinois University School of Business, Carbondale, Ill. 62901.

HANCOCK, DR. WALTON MILTON, b. Pittsburgh, Pa, Feb. 21, 29; m. 51; c. 3. INDUSTRIAL ENGINEERING, HUMAN FACTORS. B.E, Hopkins, 51, M.S, 52, D.E, 54. Asst. prof. prod. eng, U.S. Air Force Inst. Tech, 54-56; instr. indust. eng, Hopkins, 56-59; lectr, MICHIGAN, 59, assoc. res. engr. opers. res, 59-60, assoc. prof. INDUST. ENG, 60-62, PROF, 62-, CHMN. DEPT, 63- Instr, Wittenberg Col, 54-56; dir, Lord Baltimore Press, 56-59. Consult, div. hosp. med. facilities, Dept. Health, Ed. & Welfare, 64- U.S.A.F, 54-56, 1st Lt. Inst. Indust. Eng; Methods-Time Measurement Asn. for Standards & Res.(ed-in-chief, MTM Jour, 63-); Inst. Mgt. Sci. Prediction of behavior for people performing manual operations in industrial and service type organizations; prediction of rate and how people learn manual operations, selection tests, information processing capacity, and effects of environment. Publ: Co-auth, Learning curve research on short-cycle operations—phase I, Lab. Experiments Report 112, 63, Learning curve research on manual operations, phase II, Indust. Studies Report 113, 65 & Factors in manual skill training, 66, Methods-Time Measurement Association for Standards & Res. Address: 3440 Cottontail Lane, Ann Arbor, Mich. 48103.

HANCOCK, DR. WILLIAM O, b. Princeton, Ill, Dec. 23, 25. AGRICULTURAL ECONOMICS. B.S, Illinois, 51, M.Ed, 58; Ph.D.(agr. econ), Purdue, 66. Voc. agr. instr, pub. schs, Ill, 51-63; ASST. PROF. AGR. ECON, WESTERN ILLINOIS, 65- U.S.N.R, 44-46. Production economics. Address: Dept. of Agricultural Economics, Western Illinois University, Macomb, Ill. 61455.

HANCZARYK, DR. EDWIN W(ALTER), b. West Warwick, R.I, Oct. 7, 19; m. 47; c. 2. ECONOMICS. A.B, Brown, 41, M.A, 47; Ph.D, Northwestern, 55. Instr. econ, Brown, 46-47; bus. statist, Northwestern, 47-51; from asst. prof. to assoc. prof. econ. & statist, West Virginia, 51-58; asst. prof, Massachusetts, 58-61; economist, U.S. Dept. Commerce, 61-66; SR. ECONOMIST, U.S. TREAS. DEPT, 66- U.S.A.A.F, 42-46, Lt. Econ. Asn; Statist. Asn; Finance Asn. Economic theory; statistics. Publ: Labor force in West Virginia; Economic impact of the tax structure in West Virginia; Growth and performance of common trust funds in 1966, Nat. Banking Rev, 6/67. Address: 3331 Fairhill Dr. S.E, Washington, D.C. 20023.

HAND, PROF. GEORGE H(ENRY), b. Wheeling, W.Va, Feb. 22, 03. ECONOMICS. A.B, West Virginia, 28; summers, Columbia, 29, 30, 31; A.M, Princeton, 33, Ph.D, 39. Asst. prof. econ, Denison, 34-39; assoc. prof. econ. & bus, Ohio Wesleyan, 39-42, prof, 43-44; state price exec, Off. Price Admin, W.Va, 42-43; prof. econ. & bus. & chmn. dept, Vermont, 44-45; pres, Fairmont State Col, 45-52; prof. econ. & v.pres. bus. affairs, SOUTHERN ILLINOIS, 52-59, prof. econ. & higher ed. & chmn. dept, higher ed, 59-65, PROF. ECON, 65- Econ. Asn. Address: Dept. of Economics, Southern Illinois University, Carbondale, Ill. 62901.

HAND, PROF. JACK, b. Anderson, S.C, Sept. 6, 22; m. 51; c. 2. PSYCHOLOGY. B.A, South Carolina, 50, M.A, 51; Ph.D.(psychol), Fla. State, 54. Asst. psychol, Fla. State, 51-53; dir. psychol. serv, Indust. Sch. Boys, Fla, 54-55; assoc. prof. psychol. & consult, speech clin, Baylor, 55-59; assoc. prof. PSYCHOL, SOUTH CAROLINA, 60-64, PROF, 65- U.S.N.R, 42-45. Psychol. Asn. Personality structure and dynamics; development of personality. Publ: A method of weighting attitude scale items from subject responses, J. Clin. Psychol; Predicting the institutional adjustment of delinquent boys, J. Criminal Law & Criminol; Educational achievement of industrial school pupils under an individual assignment system, J. Correction Ed. Address: Dept. of Psychology, University of South Carolina, Columbia, S.C. 29208.

HAND, DR. JOHN H, b. Columbus, Ohio, May 6, 40. ECONOMICS. B.A, Swarthmore Col, 62; Woodrow Wilson fel, Mass. Inst. Tech, 62, Soc. Sci.

Res. Coun. fel, 65, Ph.D.(econ), 68. ASST. PROF. ECON, MISSOURI, ST. LOUIS, 68- Econ. Asn; Finance Asn. Monetary theory; financial institutions and markets. Publ: The demand for agricultural credit & Government lending agencies, In: Financial institutions and markets, 69. Address: Dept. of Economics, University of Missouri, St. Louis, Mo. 63121.

HAND, DR. PAUL E(DGAR), b. Carmel, Maine, Jan. 14, 31; m. 50; c. 5. MARKETING, AGRICULTURAL ECONOMICS. B.S, Maine, 52, Hood Dairy Found. fel. & M.S, 55; Ph.D, Pa. State, 60. Instr. agr. econ, Pa. State, 55-57; ECONOMIST & ASST. SECY-TREAS, INTERSTATE MILK PROD. COOP, INC, 57- Consult, Phila. Price Study Cmt, 59. Mem, Mid-Atlantic Class I Price Cmt, 66-67. U.S.A, 52-54, Res, 54-, Maj. Agr. Econ. Asn. Dairy price policy; agricultural farm policy and operations of federal milk marketing orders, especially research in prices and demand for fluid milk. Publ: Developments in international trade theory by the English mercantilists and the classical school; Cost studies of receiving and transporting market milk in the Philadelphia area; Beware of marketing margin myths. Address: 401 N. Broad St, Philadelphia, Pa. 19108.

HAND, DR. QUENTIN L(AMOIN), b. Akron, Ind, Dec. 8, 24; m. 44; c. 2. PSYCHOLOGY OF RELIGION. A.B, Indiana, 45; B.D, Garrett Theol. Sem, 48; Ph.D.(psychol, pastoral counseling), Boston, 60. Minister, Methodist Churches, Ind. & N.H, 45-61; asst. prof. PASTORAL PSYCHOL, CANDLER SCH. THEOL, EMORY, 61-67, ASSOC. PROF, 67- Pastoral consult. & group therapist, Ga. Clin. Alcoholics, Ga. State Bd. Health, 61- Psychol. Asn. Pastoral psychology; religion in personality development and functioning; career patterns of clergymen. Address: Dept. of Pastoral Psychology, Candler School of Theology, Emory University, Atlanta, Ga. 30322.

HANDEL, GERALD, b. Cleveland, Ohio, Aug. 8, 24; m. 56; c. 2. SOCIOLOGY, PSYCHOLOGY. A.B, Chicago, 47, A.M, 51, fel, 51-52; U.S. Pub. Health Serv. fel, Michael Reese Hosp, 51-52; Ph.D.(human develop), Chicago, 62. Res. assoc. human develop, Chicago, 52-54, instr, 54-56; res. assoc, SOC. RES, INC, 56-62, asst. dir, 62-64, v.pres, 65-66; sr. res. psychologist, Center Urban Ed, 66-67; ASSOC. PROF. SOCIOL. & DIR. SOC. RES. LAB, CITY COL. NEW YORK, 67- U.S.A, 43-44. Psychol. Asn; Soc. Proj. Tech; Sociol. Asn; Soc. Study Soc. Probs. Human development; social psychology of the family and of consumer behavior; psychological factors in social organization; sociology of social welfare. Publ: Co-auth, Family worlds and Workingman's wife: her personality, world and life style; ed, Psychosocial interior of the family: a sourcebook for the study of whole families, Aldine, 67. Address: Dept. of Sociology, City College of New York, New York, N.Y. 10031.

HANDEL, DR. STEPHEN J, b. New York, N.Y, Apr. 29, 42; m. 67. PSYCHOLOGY. Ph.D.(psychol), Hopkins, 66. ASST. PROF. PSYCHOL, KANSAS STATE, 66- Perception and cognition. Publ: Co-auth, Structure of visual pattern associates and pattern goodness, Perception & Psychophys, 66; auth, Classification and similarity of multidimensional stimuli, Perceptual & Motor Skills, 67; co-auth, Reasoning and spatial representations, J. Verbal Learning & Verbal Behavior, 68. Address: Dept. of Psychology, Kansas State University, Manhattan, Kans. 66502.

HANDELMAN, DR. NORMAN S(IDNEY), b. Brooklyn, N.Y, July 14, 23; m. 61. CLINICAL PSYCHOLOGY. B.B.A, City Col. New York, 43; M.A, N.Y. Univ, 48, Ph.D.(clin. psychol), 55; cert. psychother. & psychoanal, Postgrad. Center Ment. Health, 65. Trainee clin. psychol, Vet. Admin, 47-51; psychologist, rehab. dept, Kings County Hosp, 51-53; sr. psychologist, court intake proj, Domestic Rels. Court, New York, 53-54; chief psychologist, Bellevue Proj, Voc. Adv. Serv, 54-55; ward psychologist, Vet. Admin. Hosp, Montrose, N.Y, 56-57; ment. hyg. clin, Vet. Admin. Regional Off, 57-61; assoc. staff mem, POSTGRAD. CENTER PSYCHOTHER, 61-65, ASSOC. SUPVR, CENTER & ASST. DIR, PASTORAL COUNSELING PROG, 65- U.S.A.A.F, 43-45, Sgt. Psychol. Asn. Psychoanalytic psychotherapy; projective techniques. Address: Postgraduate Center for Mental Health, 124 E. 28th St, New York, N.Y. 10016.

HANDLER, PROF. A(RNOLD) BENJAMIN, b. Kingston, Ont, Mar. 15, 11; nat; m. 36; c. 2. URBAN ECONOMICS. B.A, Queen's (Can), 31; M.Sc, London, 35. Lectr. polit. sci, Queen's (Can), 35-37; statistician, Imperial Econ. Cmt, 37-39; res. assoc. econ, Twentieth Century Fund, 39-46; Soc. Sci. Res. Coun, 46-48; fel, Harvard, 48-50; assoc. prof. PLANNING, MICHIGAN, 50-59, PROF, 59- Fulbright lectr, Australia, 64. Consult, Joint Congressional Cmt. Housing, 47-48, Cmt. Econ. Report, 48. Mem, Bldg. Res. Inst, Nat. Acad. Sci, 60-, chmn, cmt. community planning, 61- Economics of housing and urban development; economic planning; cultural and intellectual history; environmental influences on human behavior. Publ: Economic planning for better schools; High cost of housing; co-auth, America's needs and resources. Address: Dept. of Architecture, University of Michigan, Ann Arbor, Mich. 48104.

HANDLER, DR. JEROME S(IDNEY), b. New York, N.Y, Sept. 3, 33; m. 59; c. 2. ANTHROPOLOGY. B.A, California, Los Angeles, 56, M.A, 59; Ph.D. (anthrop), Brandeis, 65. Staff archaeologist, New World Archaeol. Found, 57; instr. ANTHROP, SOUTHERN ILLINOIS, 62-64, ASST. PROF, 64- Res. grants, Nat. Insts. Health, 65, Nat. Sci. Found, 66-67 & Am. Philos. Soc, 67-68. Consult, Southern Illinois Contract Team, Agency Int. Develop, Ed. Proj. Mali, French-Speaking W.Africa, 64. Fel. Anthrop. Asn. Social anthropology and ethnology of the Caribbean and West Africa; peasant and plantation societies; history of the Negro in the New World. Publ: Pottery making in rural Barbados, Southwest. J. Anthrop, 63; Some aspects of work organization on sugar plantations in Barbados, 65 & Small-scale sugar cane farming in Barbados, 66, Ethnol. Address: Dept. of Anthropology, Southern Illinois University, Carbondale, Ill. 62901.

HANDLER, DR. JOEL S(TANLEY), Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HANDLER, DR. LEONARD, b. New York, N.Y, Sept. 6, 36; m. 61; c. 1. CLINICAL PSYCHOLOGY. B.A, Brooklyn Col, 58; univ. scholar, City Col. New York, 58-60, New York Bd. Higher Ed. fel, 60; M.A, Mich. State, 63, Ph.D. (psychol), 64. ASST. PROF. CLIN. PSYCHOL, TENNESSEE, 64- Consult, Daniel Arthur Rehab. Center, Oak Ridge, Tenn, 66- Soc. Psychophysiol. Res; Psychol. Asn; Soc. Proj. Tech. & Personality Assessment. Personality assessment; process studies in psychotherapy. Publ: Co-auth, The effects of stress on the draw-a-person test, J. Consult. Psychol, 28: 259-264; co-auth, Anxiety indices in the draw-a-person test: a review of the literature, 29: 305-313 & auth, Anxiety indexes in projective drawings: a scoring manual, 31: 46-57, J. Proj. Tech. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37916.

HANDLON, PROF. JOSEPH H(AROLD), b. San Francisco, Calif, Apr. 13, 20. PSYCHOLOGY. B.A, California, Los Angeles, 48; Ph.D.(psychol), California, 53. Instr. psychol, Princeton, 53-55; fel. clin. psychol, U.S. Pub. Health Serv, 55-57, res. clin. psychologist, lab. psychol, Nat. Inst. Ment. Health, 57-61; ASSOC. PROF. psychiat, sch. med, Stanford, 61-65; ORGN. BEHAV, CASE WESTERN RESERVE, 65- AAAS; Psychol. Asn. Psychological theory construction; psychodiagnostics; personality development and learning. Publ: Co-auth, Towards a general theory of behavior, Methodos; Language of perceptual theory, Psychol. Rev; Metatheoretical view of assumptions regarding the etiology of schizophrenia: implications for research, Arch. Gen. Psychiat. Address: Dept. of Psychology, Case Western Reserve University, University Circle, Cleveland, Ohio 44106.

HANDLON, DR. MARION W(IEMAN), b. Calif, July 8, 18; m. 57. PSYCHOLOGY. A.B, Antioch Col, 40; Ph.D.(psychol), California, 55. Asst. prof, col. med, Illinois, 55-57; staff psychologist, Chestnut Lodge, Inc, Rockville, Md, 57-61; chief psychologist, Children's Hosp, D.C, 61; res. assoc. psychol, sch. med, Stanford, 61-65; PSYCHOLOGIST, BEECH BROOK, 65- Mem. faculty, Wash. Sch. Psychiat, 57-61; res. assoc, inst. human develop, California, Berkeley, 62-65. Psychol. Asn. Thinking processes; psychotherapy; childhood psychosis. Publ: Co-auth, Origins of psychosomatic and emotional disorders, Harper, 62. Address: 2637 Edgehill Rd, Cleveland Heights, Ohio 44106.

HANDLON-LATHROP, DR. BRITOMAR, b. New York, N.Y, Feb. 17, 21; m. 47; 59; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, California, Los Angeles, 47, U.S. Pub. Health Serv. fel, Berkeley, 52-54, Ph.D.(psychol), 54. Asst. prof. psychol, Rockford Col, 54-55; psychol. & ed, Mt. Holyoke Col, 55-60; Vet. Admin. clin. training fel, Northwestern, 60-62; psychologist, Inst. Juvenile Res, Ill, 62-66; ASST. DIR, ROCKFORD ZONE, ILL. DEPT. MENT. HEALTH, 66- Vis. res. fel, Radcliffe Col, 59. Psychol. Asn. Experimental studies in the personality development of children; attitude measurement; statistics. Address: 2222 Ridge Ave, Rockford, Ill. 61103.

HANDSAKER, PROF. MORRISON, b. Portland, Ore, Nov. 20, 07; m. 34; c. 1. ECONOMICS. A.B, Reed Col, 29; Ph.D, Chicago, 39. Code adv. & researcher, Nat. Recovery Admin, 34-36; instr, Washington (Seattle), 37-38; from instr. to assoc. prof, Occidental Col, 38-43; mediation officer, Nat. War Labor Bd, 43-44; personnel rep, Lockheed Aircraft Corp, 44-45; economist, Off. Price Admin, 45-46; lectr. ECON, California, Los Angeles, 46; PROF. & HEAD DEPT, LAFAYETTE COL, 46- Specialist labor rels, U.S. Dept. State, W.Germany, 53; Fulbright lectr, Sheffield, Eng, 57-58, Waseda Univ, Japan & Yokohama Nat. Univ, 64-65. Mem. President's Emergency Adv. Bds, 55, 57, 59-61. Econ. Asn; Arbit. Asn; Indust. Rels. Res. Asn; Acad. Arbit; Int. Indust. Rels. Asn. Labor relations; social insurance; arbitration; collective bargaining. Publ: The submission agreement in contract arbitration; Labor arbitration in Great Britain, Indust. Rels; International Labor Organization and Japanese public employee unions, Indust. Rels, 10/67. Address: Dept. of Economics, Lafayette College, Easton, Pa. 18042.

HANDY, DR. E(DWARD) S(MITH) C(RAIGHILL), Anthrop, see 10th ed, Soc. & Behav. Vols.

HANEK, DR. MICHAEL, b. Brownsville, Pa, June 8, 28; m. 57; c. 2. PSYCHOLOGY. B.S, Pa. State, 53, M.S, 54, U.S. Pub. Health Serv. fel, 56, Ph.D. (clin. psychol), 60. Instr. psychol. & coordinator psychol. clin, Pa. State, 58-60, psychologist in div. counseling, 62-65; asst. prof. psychol. & counsr, Kansas State, 60-62; DIR. CLIN. & COUNSELING PSYCHOL, CENTER PSYCHOL. SERV, OHIO, 65- Field selection officer, summer 65. U.S.A.F, 46-49, Sgt. Psychol. Asn. Behavior conflict; psychopathology; psychotherapy; career and educational counseling. Address: Center for Psychological Services, Ohio University, Athens, Ohio 45701.

HANER, PROF. CHARLES F(REDERICK), Psychol, see 10th ed, Soc. & Behav. Vols.

HANER, DR. F(REDERICK) T(HEODORE), b. Detroit, Mich, Sept. 29, 29; m. 54; c. 2. ECONOMICS, GEOLOGY. B.S, Michigan, 51; M.B.A, Pittsburgh, 55, Ph.D, 59. Commercial res, U.S. Steel Corp, 55-58; dir. res, Regional Indust. Develop. Corp, 58-59; mgr. mech. & construct. econ, Stanford Res. Inst, 59-62; dir. int. develop, Am. Cement Corp, 63-66; V.PRES, LITTON INT, 67- C.Eng, U.S.A, 51-53. Analysis to determine financial incentive to explore for oil and gas; multiple correlation analysis through computer experimentation on lead-lag factors which would enable accurate prediction on contract awards. Publ: Determining the feasibility of foreign ventures & Business investment negotiations in developing countries, Bus. Horizons; Environmental risk index for 42 countries. Address: Litton Industries, Avenida 24 de Julho, 128-5º, Lisbon 2, Portugal.

HANES, DR. LISBURN CLARENCE, JR, Med, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HANES, DR. R(ANDALL) M(ELVILLE), b. Chambersburg, Pa, Aug. 18, 20; m. 41; c. 2. PSYCHOLOGY. A.B, Franklin & Marshall Col, 45; M.A, Hopkins, 47, Ph.D.(psychol), 49. Res. asst. to res. contract dir. psychol, Hopkins, 46-52; res. psychologist, Pittsburgh Plate Glass Co, 52-55; res. scientist & proj. dir, Am. Inst. Res, 55-56; mem. sr. staff, APPL. PHYSICS LAB, HOPKINS, 56-65, PRIN. PRFNL. STAFF HUMAN FACTORS, 65- Dir, Inter-Soc. Color Coun, 62-66, ed, News Letter, 66- Consult, U.S. Army, 49; Glenn L. Martin Co, 51-52. Mem. vision cmt, U.S. Armed Forces-Nat. Res. Coun; subcmt, U.S. Am. Standards Inst, 66- AAAS; Psychol. Asn. Human

engineering; facts of color; industrial psychology; decision processes. Publ: Color engineering manual; Color: a guide to basic facts and concepts; co-auth, The computer's role in command decision, Proc. U.S. Naval Inst, 9/66. Address: Applied Physics Lab, Johns Hopkins University, 8621 Georgia Ave, Silver Spring, Md. 20910.

HANESSIAN, PROF. JOHN, JR, b. Syracuse, N.Y, Feb. 18, 25; m. 50; c. 4. POLITICAL SCIENCE. B.S, Syracuse, 47; Strasbourg, 50-51; Hopkins, 52-53; Cambridge, 58-60. Exec. officer regional progs, Nat. Acad. Sci. Staff Int. Geophys. Year, 54-58; fel. int. affairs, Inst. Current World Affairs, 58-60; mem. assoc. prof. staff, field staff, American Univ, 60-64; assoc. prof. polit. sci, Alabama, 64-65; vis. assoc. prof, Hawaii, 65-66; acting dir. arms control studies group, Calif. Inst. Tech, 66-67; ASSOC. PROF. LECTR. POLIT. SCI, GEORGE WASHINGTON, 67- Vis. prof, American Univ. Beirut, 61-63. Consult, U.S. Dept. State, 65-; Jet Propulsion Labs, Calif. Inst. Tech, 66-; arms control proj, Hoover Inst, Stanford, 67- Sig.C, U.S.A, 44-46. Polit. Sci. Asn; Soc. Int. Law; Int. Studies. Asn. Arms control studies; policy studies in science and technology; Middle East, especially Iran, Turkey and Union of Soviet Socialist Republic policy; polar affairs. Publ: Co-auth, Rockets and satellites, Pergamon, 58; auth, International controls over Antarctica, Stevens, London, 68; Revolutionary reform in Iran, Hoover Inst, Stanford, 68. Address: Dept. of Political Science, George Washington University, Washington, D.C. 20006.

HANEY, DR. LEWIS H(ENRY), b. Eureka, Ill, Mar. 30, 82; m. 06, 45; c. 1. ECONOMICS. A.B, Dartmouth Col, 03, A.M, 04, Parker traveling fel, 05; Ph.D, Wisconsin, 06. Instr. econ, Iowa, 06-08; asst. prof, Michigan, 08-10; assoc. prof, Texas, 10-12, prof, 12-16; economist & mem. econ. adv. bd, Fed. Trade Cmn, 16-19; dir. bur. res. & publicity, South. Wholesale Grocers' Asn, 19-20; chief cost of mkt. div, bur. agr. econ, U.S. Dept. Agr, 20-21; dir. bur. bus. res, N.Y. Univ, 21-32; consult. econ. probs. & bus. conditions, Nat. Asn. Purchasing Agents, 34-64; Chicopee Mills, Inc, 56-64; RETIRED. Lectr, N.Y. Univ, 08; prof, 20-55; lectr, inst. int. affairs, Wyoming, 55; Pittsburgh, 60; spec. exam, Interstate Commerce Cmn, 09. Financial columnist, New York Evening J, 28-57. Award, Freedoms Found, Inc, 50. Fel. Statist. Asn. Economic theory; business forecasting; price control. Publ: Value and distribution; History of economic thought; How you really earn your living. Address: 18 Argyle Rd, Port Washington, N.Y. 11050.

HANEY, PROF. WILLIAM V(ALENTINE), b. Blue Island, Ill, Apr. 11, 25; m. 52; c. 5. BEHAVIORAL SCIENCE, COMMUNICATIONS. B.S, Northwestern, 49, M.A. & Ph.D.(commun. psychol), 50. Instr. speech, Beloit Col, 50-51; from instr. to asst. prof. speech & indust. psychol, DePaul, 53-57; asst. prof. ORGN. BEHAV, NORTHWESTERN, 57-61, assoc. prof, 61-65, PROF, 65- Fels, Found. Econ. Ed, 56 & Ford Found. faculty workshop, Carnegie Inst. Tech, 65. Consult. commun. & orgn. behav, govt. & indust, 52-; adv. Sch. Adv. Commercial Study, Jouy en Josas, Paris, France, 67. U.S.A, 43-46. Acad. Mgt; Int. Soc. Gen. Semantics; Inst. Gen. Semantics. Organizational behavior with emphasis upon interpersonal communication in an organizational setting; development of the Uncritical Inference Test, designed to measure tendency to confuse inference for fact. Publ: Communication: patterns and incidents, 60 & Communication and organizational behavior, 67, Irwin; co-auth, Organizational relations and management action, McGraw, 66. Address: School of Business, Northwestern University, Evanston, Ill. 60201.

HANF, DR. CONSTANCE, b. Brooklyn, N.Y, May 21, 17. PSYCHOLOGY. B.A, N.Y. Univ, 38, M.A, 43; M.A, City Col. New York, 53; Ph.D.(psychol), Pa. State, 61. Fel. psychol, med. sch, Oregon, 61-62; instr, sch. med, Washington (St. Louis), 62-63; ASSOC. PROF. MED. PSYCHOL, MED. SCH, OREGON, 63- AAAS; Psychol. Asn; Asn. Adv. Behav. Ther. Use of operant conditioning and modeling procedures to modify problem behaviors in mother-child interactions. Publ: Co-auth, The Edwards personality preference scale and the nursing personality, Ed. Tests & Measurement; auth, Intensity of the voice and the theory of activation, Am. J. Psychol, 66. Address: Crippled Children's Divisions, University of Oregon Medical School, Sam Jackson Park Rd, Portland, Ore. 97201.

HANFMANN, DR. EUGENIA, b. St. Petersburg, Russia, Mar. 3, 05; nat. PSYCHOLOGY. Dr.phil.nat, Jena, 27. Asst, psychol. inst, Jena, 28-30; asst. prof, res. lab, Smith Col, 30-32; res. assoc, Worcester State Hosp, 32-35; res. in dementia praecox, North. Masonic Jurisdiction of Scottish Rite, 35-39; from instr. to asst. prof. psychol, Mt. Holyoke Col, 39-46; lectr. clin. psychol, Harvard, 46-52; assoc. prof. PSYCHOL, BRANDEIS, 52-56, PROF, 56- Consult, Russian Res. Center, Harvard, 50-54. Sr. instr, assessment sch, Off. Strategic Serv, D.C, 44-46. Fel. Psychol. Asn; Acad. Psychother. Development and pathology of thinking; methods of personality study; national character. Publ: Co-auth, Conceptual thinking in schizophrenia, Nervous & Ment. Disease Monogr; Case Lanuti: extreme concretization of behavior due to damage of the brain cortex & interpersonal attitudes of former Soviet citizens as studies by a semiprojective method, Psychol. Monogr. Address: Dept. of Psychology, Brandeis University, Waltham, Mass. 02154.

HANFMANN, DR. GEORGE M(AXIM) A(NOSSOV), Classical Archaeol, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HANFORD, DR. DANA B(RUCE), b. Scranton, Pa, Jan. 1, 29; m. 53; c. 3. COMMUNITY MENTAL HEALTH, PSYCHOLOGY. B.S, Union (N.Y), 52; A.M, Kansas, 55, Ph.D.(psychol, human rels), 58. Res. asst, guid. bur, Kansas, 53, Vet. Admin. clin. psychol. trainee, 53-58; clin. psychologist, Vet. Admin. Hosp, Topeka, Kans, 58-61; consult. psychologist, North. State Hosp, Sedro Wooley, Wash, 61-62, co-dir, Northwest Wash. Hosp-Community Pilot Prog, 62-65; DIR. ED. & PROG. DEVELOP, OLYMPIC CENTER MENT. HEALTH & MENT. RETARDATION, 65- Instr, Kansas, 58-61; lectr, Washington (Seattle), 67- Vet. Admin. award, 60. Psychol. Asn. Community mental health and mental retardation program planning; psychotherapy and behavior modification; human relations. Publ: Life crisis viewed as opportunity, 65 & Ecological psychology and treatment, 67, Bull, Div. Ment. Health, Dept. Insts, State Wash; Community evaluation of a demonstration program in psychiatric hospitalization, Proc. 74th Annual Convention Am. Psychol. Asn, 66. Address: Olympic Center for Mental Health & Mental Retardation, Sixth & Marion Sts, Bremerton, Wash. 98310.

HANITCHAK, PROF. JOHN J(OSEPH), b. Canaan, Pa, June 10, 24; m. 46; c. 1. EDUCATIONAL PSYCHOLOGY. Ph.D.(ed. psychol), Cornell, 53. Supvr. counseling, Saranac Rehab. Guild, 53-54; res. assoc, personnel res. bd, Ohio State, 54-55; from asst. prof. to assoc. prof. ed. psychol. & counseling, Univ. Kansas City, 55-61; assoc. prof. guid. & counseling, col. ed, Arizona, 61-62; VIS. ASSOC. PROF. ed. psychol, U.S. Agency Int. Develop-Indiana, Panjab, 62-66, INT. ED, INDIANA, 66-, Human Resources Develop. Cmt. res. grant, Indiana, 66- U.S.A, 42-45. Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. International education; technical assistance in education research. Address: 3437 Longview Dr, Bloomington, Ind. 47401.

HANKS, JAMES J(UDGE), b. Madison, Wis, Sept. 15, 07; m. 39; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Wisconsin, 29; M.B.A, Harvard, 31. Economist, Pub. Serv. Cmn. Wis, 31-39; asst. to exec. secy, Am. Paper & Pulp Asn, 39-41; economist, War Prod. Bd, 41-43; assoc. econ, Robert R. Nathan Assocs, 46-47; asst. to v.pres, Henry J. Kaiser Co, 47-54; Wash. indust. rep, 54-62; engr, Trident Labs, Inc, 62-64; ASSOC. ECON, RESOURCES DEVELOP. ASSOCS, 64- U.S.N, 43-46, Res, 46-50, Lt. Econ. Asn. Problems and opportunities in the control of air and water pollution; economic values derived from various uses of the radio spectrum; management of the radio spectrum. Publ: Ready-made consumer analyses, J. Land & Pub. Utility Econ, 8/34; The paper industry in the emergency, winter 41 & co-auth, Industry action to combat pollution, 9-10/66, Harvard Bus. Rev. Address: 5503 Chevy Chase Pkwy, N.W, Washington, D.C. 20015.

HANKS, DR. JANE RICHARDSON, b. Berkeley, Calif, Aug. 2, 08; m. 38; c. 3. ANTHROPOLOGY. A.B, California, Berkeley, 30; Ph.D.(anthrop), Columbia, 39. Staff instr. ANTHROP, Bennington Col, 44; RES. ASSOC, SOUTHEAST ASIA PROG, CORNELL, 53- Nat. Sci. Found. grant & assoc. dir, Bennington Col-Cornell Exped. N.Thailand, 63-64. Fel. Anthrop. Asn; Asn. Asian Studies. Ethnology of the plains Indians of the United States; ethnology of southeast Asia, particularly Thailand. Publ: Co-auth, Tribe under trust, Toronto; auth, Maternity and its rituals in Bang Chan, Cornell Univ. Southeast Asia Prog. Data Papers; Law and status among Kiowa Indians, Am. Ethnol. Soc. Monogr. Address: North Bennington, Vt. 05257.

HANKS, DR. LUCIEN M(ASON), JR, b. Madison, Wis, Mar. 25, 10; m. 38; c. 3. PSYCHOLOGY. B.A, Wisconsin, 31; Ph.D.(psychol), Columbia, 36. Jr. psychologist, State Bd. Control, Wis, 36-37; INSTR. psychol, Illinois, 37-42; PSYCHOL. & ANTHROP, BENNINGTON COL, 42- Psychologist, Off. Strategic Serv, D.C, 44-45; res. scholar, U.S. Ed. Found, Thailand, 54-55; dir, Cornell Res. Center, Bangkok, 54-55; dir. exped. tribal res. S.E. Asia & dir. ethnol. exped. to Upland Thailand for Bennington Col. & Cornell Univ. on Nat. Sci. Found. res. grant, 63-65. Anthrop. Asn; Asn. Asian Studies; Soc. Psychol. Study Social Issues. Ethnology of Northern Blackfoot; prediction from personal histories to personality test data; ethnology of Southeast Asia. Publ: Merit & power in the Thai social order, Am. Anthrop, 62; co-auth, A report on tribal peoples in Chiengrai Province, Siam Soc, 64; auth, The corporation and the entourage, Catalyst, 66. Address: Division of Social Sciences, Bennington College, Bennington, Vt. 05257.

HANLEY, PROF. CHARLES, b. Phoenix, Ariz, May 2, 20; m. 49; c. 4. PSYCHOLOGY. B.A, Ariz. State Col, Tempe, 46; M.A, California, 50, Ph.D. (psychol), 54. Asst. psychol, Inst. Child Welfare, Berkeley, Calif, 50-52; res. psychologist, San Francisco State Col. Found, 52-54; instr. PSYCHOL, MICH. STATE, 54-59, assoc. prof, 59-64, PROF, 64- Asst, Inst. Personnel Assessment & Res, 53-54; vis. prof, Hollins Col, 60-61. U.S.N.R, 41-45, Lt. Comdr. AAAS; Psychol. Asn; Soc. Res. Child Develop. Child development; personality testing and measurement. Publ: Physique and reputation of junior high school boys, Child Develop; co-auth, Personality development in infancy and the pre-school years, Rev. Ed. Res. & Care and carelessness in psychology, Psychol. Bull. Address: 1203 W. Grand River, East Lansing, Mich. 48823.

HANLEY, PROF. THEODORE D(EAN), b. Carpinteria, Calif, July 19, 17; m. 46; c. 2. SPEECH PATHOLOGY. B.A, Santa Barbara Col, 40; M.A, Iowa, 42, Ph.D.(speech), 49. From asst. prof. to PROF. SPEECH, Purdue, 49-63; CALIFORNIA, SANTA BARBARA, 63- Mem, speech path. rev. panel, Voc. Rehab. Admin, Dept. Health, Ed. & Welfare, 66-68. U.S.N.R, 42-46. Fel. Speech & Hearing Asn. Experimental phonetics; psycho-acoustics and bio-acoustics; prosodic features of regional dialects and languages. Publ: Analysis of vocal frequency and duration characteristics of selected samples of speech from three American dialect regions, Speech Monogrs; co-auth, Instruments of diagnosis, therapy and research, In: Handbook of speech pathology & In: Developing vocal skills. Address: Dept. of Speech, University of California, Santa Barbara, Calif. 93106.

HANLEY, DR. W(ILBUR) M(ATTHEW), Geog, see 10th ed, Soc. & Behav. Vols.

HANLON, DR. JOHN WILLIAM, b. Aitkin, Minn, June 27, 37; m. 61; c. 2. AGRICULTURAL ECONOMICS. B.S, Minnesota, 59, M.S, 62, fel, 64-65, Ph.D.(agr. econ), 66. Res. asst, Minnesota, 61-63, ASST. PROF. econ, DePauw, 66-68; MKT, NORTHERN ILLINOIS, 68- Vis. asst. prof, Purdue, summer 67. Econ. Asn; Agr. Econ. Asn. Agricultural marketing; undergraduate education in general economics. Address: Dept. of Marketing, Northern Illinois University, DeKalb, Ill. 60115.

HANLON, DR. THOMAS E(VERETT), b. Wilmington, Del, June 19, 26; m. 54; c. 3. EDUCATIONAL PSYCHOLOGY, GUIDANCE. B.A, Catholic Univ, 51, M.A, 53, Ph.D.(guid), 58. Intern psychol, counseling center, Catholic Univ, 52-53; counseling psychologist, Georgetown, 53-54; res. assoc, Psychol. Res. Assocs, D.C, 54-55; res. psychologist, SPRING GROVE STATE HOSP, 55-58, CHIEF PSYCHOL. SERV. RES, 58- U.S.N, 44-46. Psychol. Asn; Col. Neuropsychopharmacol. Measurement and evaluation of change in hospitalized psychiatric patients due to various treatment interventions; prognostic indicators of treatment success; psychopharmacology. Publ: Co-auth, The comparative validity of several MMPI indices of severity of psychopathology, J. Clin. Psychol, 64; The comparative effectiveness of eight phenothiazines, Psychopharmacologica, 65; auth, The individual case in the interpretation of regression effects, J. Perceptual & Motor Skills, 66. Address: Research Dept, Spring Grove State Hospital, Catonsville, Md. 21228.

HANNA, PROF. FRANK A(LLAN), b. Oklahoma City, Okla, Oct. 3, 07; m. 53. ECONOMICS. A.B, Oklahoma, 33, Ph.M, Wisconsin, 34, Ph.D, 41. Sr. statistician, State Planning Bd, Wis, 35-39; chief statistician, State Tax Cmn, 39; dir. res, Wis. income study, Univ. Wisconsin, 39-41; economist, War Prod. Bd, 41-43; U.S. Bur. Census, 44-48; assoc. prof. ECON, DUKE, 48-51, PROF, 51- Dir, State Income Tax Study, Wis, 36-39; UN indust. statist. expert, Greece, 60-61; prin. investr, Nat. Sci. Found. res. grant rels. econ. variables, 62-68. Consult, indust. div, U.S. Bur. Census, 50- Econ. Asn; Statist. Asn. Differences in state per capita incomes; distribution of income by size; national income analysis. Publ: State income differentials, 1919-1954; Compilation of manufacturing statistics. Address: Dept. of Economics, Duke University, Durham, N.C. 27706.

HANNA, DR. JOSEPH F(ORD), Philos. of Sci, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

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HANNA, PROF. PAUL L(AMONT), b. Paisley, Ont, May 9, 13; nat; m. 36; c. 2. SOCIAL SCIENCE. A.B, George Washington, 35; A.M, Stanford, 36, Ph.D, 39. Asst. prof. SOC. SCI, FLORIDA, 39-44, assoc. prof, 44-46, PROF, 46- Spec. res. analyst, Anglo-Am. Cmt. Inquiry on Palestine & polit. adv, Cmt. on Palestine, U.S. Cabinet, 46. Managing ed, J. Polit, 44-46. Hist. Asn; Mid. East Inst. British Empire; Middle East; British policy in Palestine. Address: 1523 N.W. 12th Rd, Gainesville, Fla. 32601.

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HANNA, DR. WILLIAM S, JR, Colonial Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HANNAFORD, PROF. JOHN W(ILLIAM), b. Fairfield, Ill, Apr. 11, 18; m. 43; c. 1. ECONOMICS. A.B, Wabash Col, 47; M.A, Harvard, 50, Ph.D, 52. Instr. econ, BALL STATE, 50-52, asst. prof, 52-55, assoc. prof, 55-59, prof, 59-61, PROF. ECON, 61-, CHMN. DEPT, 67- Lectr, exten. serv, Indiana, 57, 59-60; Tri-State Col, 58; Delco Remy Div, Gen. Motors Inst. Consult, City of Muncie, 58-59. U.S.A.A.F, 43-46, Sgt. Econ. Asn. International monetary relations; labor-management relations; economics of communities and community planning. Publ: Economic inventory of Muncie and Delaware County; Student guidebook to Heilbroner, Prentice-Hall, 68; Experiment in general education at the graduate level. Address: Dept. of Economics, Ball State University, Muncie, Ind. 47306.

HANNAH, PROF. H(AROLD) W(INFORD), b. White Heath, Ill, Jan. 16, 11; m; c. 5. AGRICULTURAL ECONOMICS. B.S, Illinois, 32, LL.B, 35. Dist. supvr. agr. exten. serv, Illinois, 36-37, asst. to dean & to dir. col. agr, 37-39, assoc. farm mgt, 39-40; exec. secy, State Soil Conserv. Dists. Bd, Ill, 39-41; asst. prof. agr. econ, ILLINOIS, URBANA, 41-45, assoc. prof, 45-49, PROF. AGR. LAW, 49-, ASSOC. DEAN COL. AGR, 54-, dir. div. spec. serv. for war vet, 45-47. Field staff coordinator from Illinois, India, 55-57. U.S.A, 41-45, Lt. Col. Agr. Econ. Asn. Local government. Publ: Law on the farm; Resource book for rural universities in the developing countries, 66 & co-auth, The legal base for universities in developing countries, 67, Univ. Illinois. Address: University of Illinois College of Agriculture, Urbana, Ill. 61801.

HANNAWALD, EMMETT B(ENJAMIN), b. Kans, Aug. 10, 15; m. 41; c. 3. AGRICULTURAL ECONOMICS. B.S, Kans. State Col, 39. Agr. statistician, bur. agr. econ, U.S. DEPT. AGR, Kans, 39-42, Wyo, 42, Mo, 46-48, D.C, 48-53, head livestock sect, agr. mkt. serv, 54-62, chief livestock & poultry statist. br, 63-66, CHIEF LIVESTOCK, DAIRY & POULTRY STATIST. BR, STATIST REPORTING SERV, 67- U.S.A, 42-45. Econ. Asn; Agr. Econ. Asn; Statist. Asn. Agricultural statistics. Address: 1102 Chillum Manor Rd, Hyattsville, Md. 20783.

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HANNI, DR. JOHN W, Med, see 11th ed, Phys. & Biol. Vols.

HANNUM, DR. T(HOMAS) E(DWARD), b. Boone, Iowa, May 8, 19; m. 42; c. 4. PSYCHOLOGY. B.S, Iowa State Col, 41, M.S, 49; Ph.D.(ed. psychol), Nebraska, 52. PROF. PSYCHOL, IOWA STATE, 52- Consult, bd. control women's reformatory, 59- U.S.A, 42-46, Maj. Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Crime & Delinquency; Asn. Correctional Psychol. Counseling; correctional psychology; adjustment. Publ: Use of the strong vocational interest blank for prediction in veterinary medicine, J. Appl. Psychol; Differential responses on veterinarians to the strong vocational interest blank for men & Identification and measurement of the arithmetical concepts and abilities of pre-school and primary grade school children, Proc. Iowa Acad. Sci. Address: Dept. of Psychology, Iowa State University, Ames, Iowa 50010.

HANNUM, DR. WILLIAM H, b. Columbus, Ohio, Aug. 15, 32; m. 57; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. B.A, Col. Wooster, 54; M.B.A, Michigan, 59, Ph.D.(bus. admin), 63. Instr. econ, Ind. Inst. Tech, 56-57; bus. statist, Michigan, 59-60, asst. res. economist, Inst. Sci. & Tech, 60-62; ASST. PROF. BUS. ECON. & STATIST, SYRACUSE, 63- U.S.A, 54-56. Econ. Asn; Statist. Asn; Inst. Mgt. Sci. Application of mathematical probability theory and statistics in business and economics; operations research and management science. Publ: Co-auth, Interpretation and use of available price indexes, Proc. Am. Statist. Asn, 65; auth, Profit maker by design, educator by circumstance, J. World Bus, 9-10/67; co-auth, General adjustments and price level measurement, Acct. Rev, 4/68. Address: College of Business Administration, Syracuse University, Syracuse, N.Y. 13210.

HANRAHAN, DR. GEORGE DONALD, b. Milwaukee, Wis, Aug. 22, 28; m. 66. ECONOMICS. B.S, Marquette, 54; M.A, Minnesota, 58, Ph.D.(econ), 64. Instr. ECON, Minnesota, 56-60; asst. prof, ST. LOUIS, 60-65, ASSOC. PROF, 65- Consult, Human Develop. Corp, Mo, 65. U.S.A, 51-52. Econ. Asn; Economet. Soc; Statist. Asn; Inst. Mgt. Sci. Monetary research; urban problems; information systems. Address: 7545 Wellington Way, St. Louis, Mo. 63105.

HANSBURG, DR. HENRY G, b. New York, N.Y, Apr. 9, 10; m. 32; c. 2. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 30, M.S, 31; Ph.D. (psychol, ed), Columbia, 39. Sch. psychologist, ed. clin, City Col. New York, 31; res. psychologist, bur. ref. res. statist, bd. ed, N.Y, 31, clin. psychologist, bur. child guid, 35-49, chief psychologist, Borrough Brooklyn, 46-49, lectr. ment. health, 35-49, asst. to bd. exam, 51-52; lectr. psychol, Brooklyn Col, 47-55, asst. prof. ed. & chief psychologist, ed. clin, 49-55, prof, grad. sch, 52-55; private practice, 49- Psychologist, Probationary Sch, 32-35; lectr, Queens Col.(N.Y), 52; chmn. psychol. serv, Inst. Brooklyn, 65- Consult, Ramaz Acad, N.Y, 39-49. Mem, Jewish Child Care Asn. Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. Fel. Psychol. Asn; fel. Orthopsychiat. Asn. Clinical psychology, diagnosis and treatment; developmental problems of childhood; parent education; separation and residence placement problems of adolescents. Publ: Ed, Where psychologists work in Brooklyn; auth, Neurotic child with oral disturbance; A reformulation of the problem of reading disability, Am. J. Child Psychiat. Address: 359 Parkside Ave, Brooklyn, N.Y. 11226.

HANSEN, PROF. ALVIN H(ARVEY), b. Viborg, S.Dak, Aug. 23, 87. ECONOMICS. A.B, Yankton Col, 10, LL.D, 36; A.M, Wisconsin, 15, Ph.D, 18. Prin, high sch, S.Dak, 10-12, supt. schs, 12-13; asst. instr. econ, Wisconsin, 15-16; instr, Brown, 16-19; assoc. prof, Minnesota, 19-23, prof, 23-37; Littauer prof. POLIT. ECON, HARVARD, 37-62, EMER. PROF, 62- Guggenheim fel, 28-29; economist, U.S. State Dept, 34-35. Adv, Prairie Provs, Royal Cmn. Dom-Prov. Rels, 37-38; spec. adv, Fed. Reserve Bd, 40-45. Dir. res. & secy, Cmn. Inquiry of Nat. Policy in Int. Econ. Rels, 33-34; Am. Rep, Int. Conf. Scientists, Eng, 41. Econ. Asn.(pres, 38); Economet. Soc; Statist. Asn.(v.pres, 37); Acad. Polit. & Soc. Sci. Business cycles; fiscal policy; monetary theory. Address: 56 Juniper Rd, Belmont, Mass. 02178.

HANSEN, PROF. ASAEL T(ANNER), b. Collinston, Utah, Nov. 21, 03; m. 28. SOCIAL ANTHROPOLOGY. B.S, Utah State Agr. Col, 27; Ph.D.(anthrop, sociol), Wisconsin, 31. Field staff mem, Carnegie Inst, 31-34; from asst. prof. to assoc. prof. sociol, Miami, 35-47; asst. prof. sociol. & anthrop, Mich. State Col, 47-49; PROF. ANTHROP, ALABAMA, 49- Field dir, Ford Found. & Nat. Sci. Found. res. grants, interuniv. proj. behav. sci. training in Yucatan, Mex, 64-66. Community analyst, War Relocation Authority, 44-46. Fel. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop. Dynamics of social-cultural systems in stability and change; ethnic minorities; culture and personality; recent and contemporary Yucatan, Mexico. Publ: Co-auth, Impounded people: Japanese Americans in relocation centers, Govt. Printing Off, 46; auth, Community analysis at Heart Mountain relocation center, Appl. Anthrop, summer 47; Teaching about caste in intra-caste and in cross-caste situations, Human Orgn, summer 60. Address: Dept. of Anthropology, University of Alabama, University, Ala. 35486.

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HANSEN, DR. DOUGLAS B(RAYSHAW), b. Neenah, Wis, Apr. 30, 29; m. 57; c. 3. PSYCHIATRY, PHYSIOLOGY. A.B, Antioch Col, 51; M.D, Rochester, 55. Res. assoc. appl. chem, Nat. Cash Register Co, Ohio, 49-51; assoc. med, univ. & intern, Barnes Hosp, Washington (St. Louis), 55-56; res. assoc. cerebral metab, Nat. Insts. Health, 56-58; resident psychiat. & child psychiat, Columbia Univ. & N.Y. State Psychiat. Inst, 58-62, instr. PSYCHIAT, Columbia, 62-64; ASST. PROF, COL. MED, BAYLOR, 64- Psychoanal. trainee, Columbia Psychoanal. Clin, 59-64; New Orleans Psychoanal. Inst, 65- Summers, res. assoc, Rochester, 52-54. Dipl. Am. Bd. Psychiat. & Neurol, 65, cert. child psychiat, 66. U.S. Pub. Health Serv, 56-58, Sr. Asst. Surgeon. Psychiat. Asn; Orthopsychiat. Asn; Am. Med. Asn. Psychoanalysis; cerebral circulatory physiology in man and animals; learning disorders in children; early development; communication disorders, parent-child. Publ: Co-auth, Effects of low O_2 and high CO_2 concentrations in inspired air in local cerebral circulation, Fedn. Proc, 57 & Effects of aging on cerebral circulation and metabolism in man, In: Human aging, U.S. Pub. Health Serv. Pub. 986, 61; auth, Symptoms of organic brain disorders, Houston

State Psychiat. Inst. Bull, 65. Address: Baylor University College of Medicine, 1200 Moursund Ave, Houston, Tex. 77025.

HANSEN, DR. ERNST W(ALTER), b. Rahway, N.J, May 3, 32; m. 57; c. 4. PSYCHOLOGY. B.A, Rutgers, 58; Wis. Alumni Res. Found. fel, Wisconsin, 58-60, Nat. Inst. Ment. Health fel, 60-62, M.A, 61, Ph.D.(psychol), 62. Instr. PSYCHOL, RUTGERS, 62-63, asst. prof, 63-65, ASSOC. PROF. & CHMN. DEPT, 65- Res. grants, Nat. Insts. Health, 65-68 & Rutgers Res. Coun, 66-67. U.S.N, 50-54. Psychol. Asn. Social behavior of rhesus monkeys; parent-squab interactions in ring doves. Publ: Squab induced prolactin secretion in ring doves, & sr. auth, Interactions of rhesus monkeys to familiar and unfamiliar peers, 66, J. Comp. Physiol. Psychol; auth, The development of maternal and infant behavior in rhesus monkeys, Behavior, 66. Address: Dept. of Psychology, Conklin Hall, Rutgers, the State University, 175 University Ave, Newark, N.J. 07102.

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HANSEN, PROF. GERALD EDWIN, Polit. Sci, Econ, see 10th ed, Soc. & Behav. Vols.

HANSEN, DR. HUGH G(ROVES), Econ, see 10th ed, Soc. & Behav. Vols.

HANSEN, DR. IRVIN ARTHUR, JR, b. Glendale, Calif, Aug. 27, 30; m. 67; c. 2. PSYCHOLOGY. A.B, Pacific (Calif), 53, M.A, 55; Ph.D, Portland, 59. Clerkship, clin. psychol, Stockton State Hosp, 53; intern, Calif. Youth Authority, 54; clin. psychologist, Porterville State Hosp, 54-56; instr. psychol, Fresno State Col, 56; counsr. & psychologist, Maclaren Sch. Boys, 56-57; instr. psychol. & clin. psychologist, Portland, 57-59; from lectr. to asst. prof. psychol, Immaculate Heart Col, 59-65; CLIN. PSYCHOLOGIST, 59- Lectr, Los Angeles Valley City Col, 65- Psychol. Asn; Soc. Proj. Tech. Clinical diagnosis and psychotherapy; perceptual processes in personality research; interventions in psychoanalytically oriented psychotherapy. Address: 18740 Ventura Blvd, Tarzana, Calif. 91356.

HANSEN, MORRIS H(OWARD), b. Thermopolis, Wyo, Dec. 15, 10; m. 30; c. 4. STATISTICS. B.S, Wyoming, 34, hon. LL.D, 59; M.A, American Univ, 40. Statistician, State Emergency Relief Admin, Wyo, 34-35; U.S. BUR. CENSUS, 35-41, asst. chief div. statist. res, 41-43, statist. asst. to dir, 44-51, asst. dir. statist. standards, 51-60, ASST. DIR. RES. & DEVELOP, 61- Consult, UNESCO, 49; Food & Agr. Orgn, 52. Rockefeller pub. serv. awards, 62. Civilian with U.S.A.A.F; U.S.N, 44. AAAS; fel. Statist. Asn.(v.pres, 51-53, pres, 60); Pop. Asn; fel. Inst. Math. Statist.(v.pres, 47, pres, 53); Inst. Mgt. Sci; Inter-Am. Statist. Inst. Sample survey methods and theory. Address: U.S. Bureau of the Census, Washington, D.C. 20233.

HANSEN, DR. NILES M(AURICE), b. Louisville, Ky, Jan. 2, 37; m. 59. c. 2. ECONOMICS. B.A, Centre Col, 58; M.A, Indiana, 59, Ph.D.(econ), 63. Res. staff mem. econ, State Univ. Ghent, 61-62; asst. prof, Texas, 63-66, assoc. prof, 66-67; assoc. prof. ECON, KENTUCKY, 67-68, PROF, 68-, ASSOC. DIR. CENTER DEVELOP. CHANGE, KENTUCKY, 67- Nat. Sci. Found. fel, 65-66; consult, sociometrics div, Tracor, Inc, Tex, 66- Econ. Asn; Asn. Comp. Econ. Structure and determinants of public investment expenditures; determinants of rational economic behavior; systems approaches to regional economic planning. Publ: French regional planning, Indiana Univ, 68; France, Van Nostrand, 68; The structure and determinants of local public investment expenditures, Rev. Econ. & Statist, 65. Address: Dept. of Economics, University of Kentucky, Lexington, Ky. 40506.

HANSEN, PROF. REED ROBERT, b. Seattle, Wash, Oct. 23, 18; m. 45; c. 2. ECONOMICS. B.A, Washington, 43, M.A, 52; Ph.D, Wisconsin, 60. Instr. ECON, Cent. Wash. Col, 50-52; from asst. prof. to assoc. prof, WASHINGTON STATE, 56-67, PROF, 67- Acting chief personal income tax sect, off. tax anal, U.S. Treas, Wash, D.C, 66-67. Consult, Washington State Tax Adv. Coun, 57-59. Mem, Can. Tax Found. U.S.N.R, 43-55, Lt. Econ. Asn. Financial problems of state and local governments; inequities in tax structures of all governments; tax treatment of family income; federal fiscal policy problems; economic impact of sales and income taxes. Publ: Vertical and horizontal inequities found in the retail sales tax, Proc. West. Econ. Asn; Empirical analysis of the retail sales tax with policy recommendations, Nat. Tax J. Address: Dept. of Economics, Washington State University, Pullman, Wash, 99163.

HANSEN, DR. RICHARD W, b. St. Paul, Minn, July 8, 33; m. 53; c. 4. MARKETING. B.B.A, Minnesota, 58, M.S, 60, Ph.D.(mkt), 64. Asst. prof. MKT, Wisconsin, 62-66; ASSOC. PROF, Fla State Univ, 66-67; ARIZONA, 67- U.S.A.F, 52-56. Mkt. Asn. Application of behavioral science concepts to marketing. Publ: An evaluation of a simple management game in an undergraduate course, 1/68 & co-auth, The realtionship of brand switching to preference strength, 4/68, South. J. Bus; Co-auth, A prescription for improving student attitudes toward business, Personnel J, 3/68. Address: College of Business, University of Arizona, Tucson, Ariz. 85721.

HANSEN, PROF. W(ILLIAM) LEE, b. Racine, Wis, Nov. 8, 28; m. 55; c. 2. ECONOMICS. B.A, Wisconsin, 50, M.A, 55; fel, Brookings Inst, 57-58; Ph.D, Hopkins, 58. Asst. ECON, Wisconsin, 54-55; instr, Hopkins, 55-56; asst. prof, California, Los Angeles, 58-63, assoc. prof, 63-65; WISCONSIN, MADISON, 65-66, PROF, 66- Fel. polit. econ, Chicago, 61-62; sr. staff economist, President's Coun. Econ. Adv, D.C, 64-65. U.S.A, 51-53, Sgt. Econ Asn; Statist. Asn; Pop. Asn; Indust. Rels. Res. Asn. Investment in human resources; rates of return on human investment; labor supply; economics of the professions. Publ: Labor force and occupational projections, Proc. Indust. Rels. Res. Asn, 66; Economics of scientific and engineering manpower, J. Human Resources, spring 67; co-auth, Economics of the military draft, Quart. J. Econ, 8/67. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

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HANSON, PROF. ARTHUR W(ARREN), Acct. Finance, see 10th ed, Soc. & Behav. Vols.

HANSON, DR. BERTIL L(ENNART), b. Chicago, Ill, Sept. 8, 32; m. POLITICAL SCIENCE. B.Sc, Northwestern, 53; M.A, Chicago, 56, Ph.D, 59. ASSOC. PROF. POLIT. SCI, OKLA. STATE, 59- Fulbright prof, Norway, 66-67. U.S.A, 53-55. Polit. Sci. Asn. Empirical and normative political theory; Scandinavian politics; state and local politics. Publ: Stockholm municipal politics; co-auth, Urban politics in the Southwest, Ariz. State Univ. Inst. Pub. Admin, 67. Address: Dept. of Political Science, Oklahoma State University, Stillwater, Okla. 74074.

HANSON, DR. DAVID LEE, Statist, see 11th ed, Phys. & Biol. Vols.

HANSON, EARL PARKER, b. Berlin, Germany, Mar. 16, 99; U.S. citizen; m. 38; c. 2. GEOGRAPHY. B.S, Wisconsin, 22; Chicago, 33. Engr, Chile Copper Co, 22-25; independent invests, Iceland, 27, sub-arctic Can, 29; dir. magnetic surv. exped, Amazon Basin & north. S.Am, Carnegie Inst, 31-33; res. technician, Nat. Resources Cmt, 34-35; planning consult, P.R. Reconstruct. Admin, 35-36; ed. & coordinator of Inter-Am. Affairs, 41-43; dir, U.S. Econ. Mission to Liberia, 44-46; vis. lectr. & res. assoc, Maryland, 48-49; chmn. dept. geog. & geol, Delaware, 49-56; CONSULT, DEPT. STATE, P.R, 56- Expert consult, U.S. Dept. Army, 42-44. Ed, Index-Gazeteer to Latin Am. Knight Off, Humane Order of African Redemption, Liberia, 46; Knight, Order of the Falcon, Iceland, 53. U.S.N, 17. Fel. Am. Geog. Soc. Geography of Latin America and Amazon; regional planning; Puerto Rico. Publ: Transformation: the story of modern Puerto Rico; ed, New world guides to Latin American republics; auth, South from the Spanish Main, Dell, 67. Address: Atlantic 3, Santurce, P.R. 00911.

HANSON, PROF. E(RIC) J(OHN), b. Alfta, Sweden, Oct. 14, 12. ECONOMICS. B.A, Queen's (Ont), 42; M.A, Alberta, 46; Wisconsin, 48; fel, Clark, 49-50, Ph.D, 52. Teacher, pub. & high schs, Can, 32-46; instr. econ, ALBERTA, 46-57, lectr, 47-49, asst. prof, 50-53, assoc. prof, 53-57, PROF. ECON. & HEAD DEPT. POLIT. ECON, 57-, assoc. dean faculty grad. studies, 64-67. NATO vis. prof. Can, Norwegian Sch. Econ. & Bus, 62. Consult, 47- Mem, Can. Tax Found; Royal Cmn. Health Serv, Can, 62-64. Econ. Asn; Can. Polit. Sci. Asn; Inst. Pub. Admin. Can; Can. Inst. Int. Affairs; Fel. Royal Soc. Can. Public finance and utilities; Alberta economy; government expenditures. Publ: Public finance aspects of health services in Canada, Queen's Printer Can, 64; Financing education in Alberta, Alta. Teachers Asn, Edmonton, 66; Federal-provincial implications of the Carter report, CCH Can. Ltd, 67. Address: Dept. of Economics, University of Alberta, Edmonton, Alta, Can.

HANSON, DR. FRANCES M(AE), b. Oak Park, Ill, Aug. 19, 13. GEOGRAPHY. A.B, Chicago, 29, S.M, 41; Ph.D.(geog), Pittsburgh, 48. Instr. geog, Pittsburgh, 46-48, asst. prof, 48, assoc. prof, 50-52; dir. training prog, Army Map Serv, 51-54; asst. prof. geog, Wilson Teachers Col, 54-56, assoc. prof, D.C. Teachers Col, 56-61, prof, 61-62; SUPVR. SOC. STUDIES & GEOG, MONTGOMERY COUNTY, MD. PUB. SCHS, 62- Asn. Am. Geog; Nat. Coun. Geog. Ed. Regional and historical geography of United States: cartography; geographic education. Publ: Co-auth, Map symbols and geographic terms charts, Nystrom, 64; auth, Applied cartography & Map intelligence, Army Map Serv. Pub. Address: 5909 Kingswood Rd, Bethesda, Md. 20014.

HANSON, DR. F(RIDOLF) ALLAN, b. Dixon, Ill, May 17, 39; m. 62; c. 2. ANTHROPOLOGY. A.B, Princeton, 61; Nat. Sci. Found. fel, Chicago, 61-66, M.A, 63, Ph.D.(anthrop), 66. ASST. PROF. ANTHROP, KANSAS, 66- Fel. Anthrop. Asn; Polynesian Soc; French. Soc. Oceanists; French Soc. Oceanic Studies. Social organization; ideology; social change; Polynesian ethnology. Address: Dept. of Anthropology, University of Kansas, Lawrence, Kans. 66044.

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HANSON, DR. HARLEY M(YLES), b. Akron, Ohio, Mar. 24, 31; m. 52; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Akron, 52; Ph.D.(exp. psychol), Duke, 56. U.S. Pub. Health Serv. fel, Duke, 56-57; res. assoc. physiol, MERCK INST. THERAPEUT. RES, 57-65, sr. res. fel, 65-67, DIR. NEUROPSYCHOPHARMACOL, 67- Psychol. Asn. Behavioral pharmacology; operant conditioning. Address: Merck Institute for Therapeutic Research, West Point, Pa. 19486.

HANSON, DR. IVAN, b. Brookings, S.Dak, Nov. 19, 34. ECONOMICS, JOURNALISM. B.S, S.Dak. State, 56, M.S, 57; Ph.D.(econ), Wisconsin, 63. Staff asst, int. wheat surplus utilization conf, S.Dak. State, 57-58; res. asst, agr. econ, Wisconsin, 58-62; res. agr. economist ECON. RES. SERV, U.S. DEPT. AGR, 63-65, ASST. BR. CHIEF, 66- Air Nat. Guard, 57-63, S/Sgt. Int. Asn. Agr. Econ; Agr. Econ. Asn; Soil Conserv. Soc. Am. Multidisciplinary research on organizations and other institutional aspects of resource development. Pub: Evaluating enabling laws for special districts—a case study in Oklahoma, Econ. Res. Serv, U.S. Dept. Agr, 66. Address: Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

HANSON, DR. JAMES ARTHUR, b. Bridgeport, Conn, Aug. 29, 40; m. 65. ECONOMICS. B.A, Yale, 61, M.A, 63, Ford Found, Cumins Diesel Engine & Earhart fels. & Ph.D.(trade & econ. growth), 67; Bridgeport, 58. Asst. prof. econ, Brown, 65-66; res. assoc, Yale, 66, res. staff economist, 67-68; ASST. PROF. ECON, BROWN, 68- Econ. Asn. International economics; economic growth: macroeconomic theory. Address: Dept. of Economics, Brown University, Providence, R.I. 02912.

HANSON, DR. JAMES W(ARREN), b. Wakefield, Nebr, Apr. 20, 27; m. 49; c. 4. ECONOMICS. B.S, Nebraska, 47, M.A, 49; Goodyear fel, Mass. Inst. Tech, 49-50, Bemis Found. fel, 51-52, Ph.D.(econ), 52. Mem. staff, off. pres, Goodyear Tire & Rubber Co, 52-55; indust. economist, STANDARD OIL CO.(N.J), 55-60, investments adv, 60-67, MGR. COORD. & PLANNING DEPT, 67- U.S.N, 45-46. Econ. Asn. Industrial organization and public policy; price theory; fiscal policy. Publ: Boston home mortgage market. Address: 44 Colonial Dr, Manhasset, N.Y. 11030.

HANSON, DR. JOHN A(NDREW), b. Boston, Mass, June 11, 26; m. 50; c. 5. PSYCHOLOGY. B.A, North Carolina, 49; M.S, Tufts, 56, Ph.D.(psychol), 63. Res. asst. PSYCHOL, TUFTS, 51-56. RES. ASSOC, 56- U.S.N.A.F, 44-45. AAAS; Psychol. Asn; Human Factors Soc. Areas of vision; visual perception; motor coordination; visual factors in highway safety. Publ: Co-auth, The movement pattern as an index of fatigue, U.S. Army Tech. Report, 66; auth, Studies on dark-adaptation. VII Effect of pre-exposure color on foveal dark adaptation, J. Optical Soc. Am, 60; co-auth, Time-space pattern in a gross body movement, Perceptual & Motor Skills, 61. Address: Research Bldg, Tufts University. Medford, Mass. 02155.

HANSON, JOHN C(HARLES), Statist, Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

HANSON, DEAN KERMIT O(SMOND), b. Eagle Grove, Iowa, May 14, 16; m. 40; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. A.B, Luther Col, 38; M.S, Iowa State, 40, Ph.D, 50. Asst, Iowa State, 38-40; opers. analyst, Fed. Land Bank, Nebr, 41-43; exam. br. off, War Assets Admin, Wash, 46; chief statistician, Vet. Admin, 46-47; asst. prof, col. bus. admin, WASHINGTON (SEATTLE), 48-51, assoc. dean bur. bus. res, 51-53, assoc. prof, 52-53, prof, 54. exec. officer, dept. acct. finance & statist. & lectr, adv. mgt. seminar, 55-60, assoc. dean col. bus. admin, 59-64, DEAN GRAD. SCH. BUS. ADMIN, 64- Instr, eve. sch, Munic. Univ. Omaha, 41-43. Ed. adv, Pac. Coast Banking Sch, Seattle, 49-, dir, 64-; dir, Journey for Perspective Found, San Francisco, 64-; Leckenby Co, Seattle, 65-; Wash. Fed. Savings & Loan Asn, 66-; Safeco Fund, Inc, 67- U.S.N.R, 43-45, Lt. Statist. Asn; Finance Asn; Am. Acct. Asn; Financial Exec. Inst. Administration; statistics; finance. Publ: Managerial statistics, auth, 1st ed, co-auth, 2nd ed; co-auth. American financial institutions. Address: Graduate School of Business Administration, University of Washington, Seattle, Wash. 98105.

HANSON, DR. LINCOLN FLINT, b. Lincoln, Mass, June 13, 20; m. 51; c. 4. EXPERIMENTAL PSYCHOLOGY. A.B, Brown, 42; Ph.D, Columbia, 52. Lab. asst. psychol, Brown, 46-47; instr, Buffalo, 47-48; Columbia, 48-50; Middlebury Col, 50-52; analyst, opers. res. off, Hopkins, 52-57; head dept. sci, Tatnall Sch, 47-61; ED, J. PROGRAMED INSTR, 61- Adj. prof, Columbia, 64- Mem. sec. sci. cmt, Independent Schs. Ed. Bd. Sig.C, 42-46, Capt. Fel. AAAS; Psychol. Asn; Opers. Res. Soc. Am. Interdisciplinary research; motivation; learning theory, especially as applied to educational processes. Address: 453 Strawtown Rd, West Nyack, N.Y. 10994.

HANSON, DR. PHILIP GERALD, b. Brooklyn, N.Y, Sept. 28, 23; m. 60; c. 2. BEHAVIORAL SCIENCE. B.A, Massachusetts, 50, M.S, 53; fel, Texas, Austin, 58-60, Ph.D, 60. Res. psychologist, Vet. Admin. Hosp, Houston, 60; coordinator psychiat. eval. proj. unit, 12 Vet. Admin. Hosps. & Cent. Off, Wash. D.C, 60-64; DIR. HUMAN RELS. TRAINING LAB, VET. ADMIN. HOSP, 64- Asst. prof, col. med, Baylor, 64-; Houston, 66-; assoc, Nat. Training Labs. Appl. Behav. Sci. Inst, 67- Psychol. consult, Tex. Res. Inst. Ment. Sci. & Tex. Alcoholic Found. Inst, 64- U.S.N, 41-46. Psychol. Asn. Post hospital vocational adjustment of psychiatric patients; small group theory and research; problem centered versus mental illness model in conceptualizing psychiatric difficulties. Publ: Co-auth, The fate of role stereotypes in two performance appraisal situations, J. Personnel Psychol, 16: 269-280; Employment after psychiatric hospitalization: an orientation for Texas employment commission personnel, Ment. Hyg, 48: 142-151; Autonomous groups in human relations training for psychiatric patients, J. Appl. Behav. Sci, 2: 305-324. Address: 5451 Lymbar, Houston, Tex. 77035.

HANSON, DR. RAPHAEL, Psychol, see 11th ed, Phys. & Biol. Vols.

HANSON, PROF. RAUS M(cDILL), b. Marshall Co, Kans, Aug. 28, 89; m. 20; c. 2. GEOGRAPHY. B.Sc, Nebraska Wesleyan, 17; A.M, Nebraska, 27. Prof. GEOG, MADISON COL, 28-59, EMER. PROF, 59- U.S.A, 18-19. Asn. Am. Geog; fel. Am. Geog. Soc; Nat. Coun. Geog. Ed. Meteorology; local economic geography. Publ: Virginians at work; Frankly facing temperatures. Sci. Teacher; Environment of viewpoints, Soc. Studies. Address: 715 S. Main St, Apt. 1, Harrisonburg, Va. 22801.

HANSON, PROF. ROBERT C(ARL), b. Wichita, Kans, Nov. 5, 26; m. 50; c. 3. SOCIOLOGY. A.B, California, 49, M.A, 51, Ph.D.(sociol, soc. instrs), 55; Harvard, 51-52. From instr. to asst. prof. soc. sci, Mich. State, 55-60; asst. prof. SOCIOL, COLORADO, 60-62, assoc. prof, 62-64, PROF, 65-, DIR. PROG. RES. SOC. PROCESSES, INST. BEHAV. SCI, 65-, res. assoc, 60-62, dir. bur. sociol. res, 62-64. Vis. asst. prof, Colorado, 58-59, faculty fel, 63-64; Russell Sage Found. residency, 60-62. Consult, migrant health br, U.S. Pub. Health Serv, 64. U.S.A, 44-46. Sociol. Asn. Methodology; comparative institutions; medical sociology. Publ: Co-auth, Society, personality, and deviant behavior, Holt, 68; auth, Evidence and procedure characteristics of reliable propositions in social science, Am. J. Sociol; Predicting a community decision, Am. Sociol. Rev. Address: Dept. of Sociology, University of Colorado, Boulder, Colo. 80302.

HANSON, ROBERT H(AROLD), b. Minn, Aug. 12, 18; m. 49; c. 2. STATISTICS, MATHEMATICS. B.A, Luther Col, 40; M.S, Iowa, 41. STATISTICIAN, CENSUS BUR, U.S. DEPT. COMMERCE, 46- U.S.A, 42-46, Capt. Statist. Asn; Inst. Math. Statist. Probability sampling; statistical methods. Address: Statistical Methods Division, U.S. Bureau of Census, General Federal Office Bldg. 3, Suitland, Md. 20233.

HANSON, PROF. ROYCE, b. Oklahoma City, Okla, Sept. 2, 31; m. 58; c. 3. POLITICAL SCIENCE. A.B, Cent. State Col.(Okla), 53; A.M, American Univ, 57, Ph.D.(govt), 63. Instr. GOVT, AMERICAN UNIV, 57-59, asst. prof, 59-63, assoc. prof, 63-67, PROF, 67-, PRES, WASH. CENTER METROP. STUDIES, 67-, res. assoc, 60-65, assoc. dir, 65-66. Mem. prinl. staff, Munic. Manpower Cmn, 61, consult, 61-62; consult, Dept. Housing & Urban Develop, 65. U.S.A, 53-55. Polit. Sci. Asn; Soc. Pub. Admin. Representative government; metropolitan politics. Publ: The political thicket, Prentice-Hall, 66; Metropolitan councils of governments, U.S. Adv. Cmt. Intergovt. Rels, 67; The anatomy of the federal interest, Wash. Center Metrop. Studies, 67. Address: 7804 Cindy Lane, Bethesda, Md. 20034.

HANURAV, DR. THOGARRATHI VENKATA, b. Vizianagaram, India, Dec. 15, 37; m. 63; c. 1. STATISTICS, MATHEMATICS. B.A, Andhra, India, 57; M.Statist, Indian Statist. Inst, Calcutta, 60, Ph.D.(statist), 67. Spec. tutor math, M.R. Col, Vizianagam, 57-58; res. scholar statist, Indian Statist. Inst, Calcutta, 60-65; vis. lectr. probability & statist, Sheffield, 65-66; vis. asst. prof. Mich. State, 66-67; VIS. ASSOC. PROF. STATIST, Texas A&M, 67-68; MINNESOTA, MINNEAPOLIS, 68- Co-investr, Nat. Insts. Health summer contracts, 66 & 67. Inst. Math. Statist. Sampling theory of finite populations; information theory and coding theory; genetic statistics; estimation and statistical inference. Address: Dept. of Statistics, University of Minnesota, Minneapolis, Minn. 55455.

HANUS, DR. JEROME J(AY), b. Ellensburg, Wash, Sept. 21, 34; m. 62; c. 2. POLITICAL SCIENCE. B.A, Seattle, 59; San Francisco, 59-60; M.A, Washington (Seattle), 61; Ph.D. (polit. sci), Maryland, 66. Instr. hist. & econ, Notre Dame (B.C), 61-63; ASST. PROF. POLIT. SCI, Mankato State Col, 65-66; AMERICAN UNIV, 66- U.S.M.C, 53-56, Sgt. Polit. Sci. Asn. American national government; constitutional law, political theory; international relations. Publ: Denial of certiorari and supreme court policy-making. American Univ. Law Rev, 12/67; Certiorari and policy making in English history, Am. J. Legal Hist, 68; Political development of certiorari in the United States, J. Constitutional and Parliamentary Studies, 69. Address: Dept. of Political Science, American University. Massachusetts & Nebraska Aves. N.W, Washington, D.C. 20016.

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HAPALA, PROF. MILAN E(RNEST), b. Hranice, Czech, Sept. 19, 19; nat; m. 47; c. 2. POLITICAL SCIENCE. A.B, Beloit Col, 40; A.M, Nebraska, 41; Ph.D.(polit. sci), Duke, 56. Instr. POLIT. SCI, SWEET BRIAR COL, 47-49, asst. prof, 49-56, assoc. prof, 56-59, PROF, 59-, HEAD DEPT, 51- Univ. fel. Asian Studies, Michigan, 61-62; Fulbright fel, India, 62; Nat. Ed. For. Lang. fel, Univ. Pennsylvania, 64-65. U.S.A.A.F, 42-45. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Asn. Asian Studies. Political parties; comparative government. Address: Box S, Sweet Briar College, Sweet Briar, Va. 24595.

HAPP, PROF. GEORGE B(IPPUS), Syst. Bot, see 11th ed, Phys. & Biol. Vols.

HAQUE, DR. WAHIDUL, b. Noakhali, East Pakistan, Jan. 1, 34; m. 63; c. 1. ECONOMICS, STATISTICS. B.A, Dacca, 55, M.A, 56; Fulbright scholar, Stanford, 59-60, M.S, 61, Rockefeller Found. scholar, 60-62, Ph.D.(econ), 64. Lectr. commerce & econ, Dacca, 56-59; acting asst. prof. bus admin, California, Berkeley, 62-63; asst. prof. econ, Alberta, 63-66; ASSOC. PROF. ECON. & MATH, TORONTO, 66- Ford Found. faculty res. fel, 65-66. Economet. Soc. Mathematical economics; econometrics; economic development and growth. Publ: Intertemporal optimality and Von Neumann equilibrium in nonlinear activity analysis, Metroeconomica, 64; A Pseudo-classical dynamic programming model of capital accumulation, 65 & Dynamic programming in a multi-product model of economic development, 66, Int. Econ. Rev. Address: Dept. of Mathematics, University of Toronto, Toronto, Ont, Can.

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HARAWAY, DR. MAURY MARTIN, b. Memphis, Tenn, Feb. 22, 42; m. 62; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Mississippi, 64, M.A, 66, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, NORTHEAST LA. STATE COL, 67- Motivational effects on learning. Address: Dept. of Psychology, Northeast Louisiana State College, Monroe, La. 71201.

HARBAUGH, DR. JANE WORTH, Diplomatic Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HARBERGER, PROF. ARNOLD C(ARL), b. Newark, N.J, July 27, 24; m. 58; c. 2. ECONOMICS. Hopkins, 41-43; Ph.D, Chicago, 50. Asst, Cowles Cmn. Res. in Econ, 49; asst. prof. polit. econ, Hopkins, 49-53, assoc. prof. ECON, CHICAGO, 53-59, PROF, 59-, CHMN. DEPT, 64-, DIR, CENTER LATIN AM. ECON. STUDIES, 65- Faculty res. fel, Soc. Sci. Res. Coun, 52-55; Guggenheim fel, London & Cambridge, 58; Ford Found. faculty res. fel, 68-69. Consult, Int. Monetary Fund, 50; President's Mat. Policy Cmn, 51; U.S. Treas. Dept, 62-; Int. Bank Reconstruction & Develop, 63-; U.S. Dept. State, 63-; Dept. Planning, Govt. Panama, 66- Mem. res. cmt, off. sci. personnel, Nat. Acad. Sci, 61-65; res. adv. bd, Cmt. Econ. Develop, 66- Econ. Asn; fel. Economet. Soc. Public finance; economic development; cost benefit analysis of economic development projects; dynamics of inflation; Latin American economics; international economics. Publ: Taxation, resource allocation and welfare, Brookings Inst, 64; The dynamics of inflation in Chile, Stanford Univ, 63; The incidence of the corporation income tax, J. Polit. Econ, 62. Address: Dept. of Economics, University of Chicago, Chicago, Ill. 60637.

HARBESON, PROF. ROBERT W(ILLIS), b. Mansfield, Ohio, Aug. 6, 03; m. 36; c. 1. ECONOMICS. A.B, Western Reserve, 25; A.M, Harvard, 26, univ. fel, 29-30; Lee Mem. fel, 30-31, Ph.D, 31. Acting asst. prof. econ, Vermont, 26-27; instr, St. Lawrence, 27-28, asst. prof. & acting head dept, 28-29; instr, State Col. Iowa, 31-34; asst. prof, 34-35; vis. prof, Rutgers, 35-36, asst. prof, 36-43; chief transportation priorities sect, transportation div, War Food Admin, 43-44; chief spec. studies sect, off. administr, Off. Price Admin, 44-45; prin. economist, bur. transport econ. & statist, Interstate Commerce Cmn, 45-47; assoc. prof. ECON, ILLINOIS, URBANA, 47-54, PROF, 54- Econ. Asn; Transportation Res. Forum (v.pres, 64). Economic problems of transportation; public policy relating to competition and monopoly. Publ: The Clayton Act: sleeping giant of antitrust?, Am. Econ. Rev, 3/58; Some allocational problems in highway finance, in: Transportation economics, Nat. Bur. Econ. Res, 65; Recent trends in the regulation of intermodal rate competition in transportation, Land Econ, 8/66. Address: Dept. of Economics, University of Illinois, Urbana, Ill. 61801.

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HARBISON, PROF. FREDERICK H(ARRIS), b. Sewickley, Pa, Dec. 18, 12; m. 41; c. 3. ECONOMICS. A.B, Princeton, 34, Ph.D, 40. Prof. econ. & exec. officer indust. rels. center, Chicago, 45-55; PROF. ECON. & DIR. INDUST. RELS. SECT, PRINCETON, 55- Mem, bd. trustees, American Univ. Cairo, 59-; Nat. Manpower Policy Task Force, 67- Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit; Nat. Acad. Ed. Labor economics; management organization; economic development. Publ: Co-auth, Management in the industrial world & Industrialism and industrial man; co-auth, Education, manpower and economic growth, McGraw, 64. Address: 114 Fitz Randolph Rd, Princeton, N.J. 08540.

HARCUM, PROF. E(UGENE) RAE, b. Cambridge, Md, Mar. 1, 27; m. 52; c. 2. PSYCHOLOGY. B.S, Col. William & Mary, 50; M.A, Hopkins, 52; fel, Michigan, 53-54, Ph.D.(psychol), 55. Jr. instr. & asst, PSYCHOL, Hopkins, 50-52; asst, Michigan, 52-53, 54-57, res. assoc, 57-58; asst. prof, COL. WILLIAM & MARY, 58-61, assoc. prof, 61-65, PROF, 65- Vis. scholar, inst. human learning, California, Berkeley, 67-68. Consult, HumRRO, George Washington, 61. Mem. vision cmt, Nat. Acad. Sci-Nat. Res. Coun, 60. U.S.N, 45-46. AAAS; Psychol. Asn. Human verbal learning; visual pattern and form discrimination; reading disability. Publ: Verbal transfer of overlearned forward and backward associations, Am. J. Psychol; co-auth, Visual perception of binary patterns by preschool children and by school children, J. Ed. Psychol; auth, The parallel functions of serial learning and tachistoscopic pattern perception, Psychol. Rev, 67. Address: 103 Plantation Dr, Williamsburg, Va. 23185.

HARDBECK, PROF. GEORGE W, b. Edwardsville, Ill, Dec. 18, 25; m. 47. LABOR ECONOMICS. B.S, Illinois, 54, univ. fel. & M.S, 56, Earhart fel, 57-58, Ph.D, 58. Asst. labor econ, Illinois, 55-58; assoc. prof, La. Polytech. Inst, 58-59; asst. prof, St. Louis, 59-61; assoc. prof, Kansas State, 61-64; resident dir. grad. prog. bus, Missouri, 64-66; PROF. ECON. & ASSOC. DEAN COL. BUS. ADMIN, CREIGHTON, 66- Consult, Manpower Develop. Training Act, Dept. Health, Ed. & Welfare, 65. U.S.A, 44-46, Sgt. Econ. Asn; Indust. Rels. Res. Asn; Arbit. Asn; Admin. Mgt. Soc. Labor economics and law; economics of social insurance. Publ: Occupational trends in the United States, 1900 to 1960, and their implications, 5/62 & Unionism again at a crossroads, 2/65, Labor Law J; Medical care under the Kerr-Mills Plan, Quart. Rev. Econ. & Bus, 11/62. Address: 4225 Terrace Dr, Omaha, Nebr. 68134.

HARDEE, DR. J(OSEPH) GILBERT, b. Allsbrook, S.C, June 2, 24; m. 53; c. 3. SOCIOLOGY. B.S, Clemson Col, 48; M.S, Kentucky, 50, Ph.D.(sociol), 58; Fulbright res. grant, Melbourne, 51-52. Asst. rural sociol, agr. exp. sta, Kentucky, 48-51; community develop. specialist, Near East Found, Iran, 54-56; asst. prof. rural sociol. & exten. eval. specialist, N.C. State Col, 57-61, asst. prof. sociol. & anthrop, 61-63; community develop. adv, Agency Int. Develop, Philippines, 63-65, Nepal, 65-66; POP. COUN. SOC. SCI. RES. ADV, NAT. RES. INST. FAMILY PLANNING, KARACHI, 66- Mem. planning & coordinating cmt, Nat. Family Planning Impact Surv-Pakistan, 1968, U.S.N, 44-45. Am. Sociol. Asn; Pop. Asn. Am; Rural Sociol. Soc; Pakistan Sociol. Soc. Communities; social organization; fertility and family planning; social factors in family planning adoption; the family; social change. Publ: Social structure and participation in an Australian rural community & Planned change and systematic linkage in a five-year program with part-time farm families, 12/64, Rural Sociol; Rationality and advancing standards and levels of living—a theoretical model on socio-cultural change, Philippine Sociol. Rev, 1-4/64. Address: Population Council, c/o Ford Foundation, Box 7282, Karachi 3, West Pakistan.

HARDEE, PROF. MELVENE DRAHEIM, b. Clarion, Iowa, Nov. 30, 15; m. 48. COUNSELING, GUIDANCE. B.A, State Col. Iowa, 34; M.A. & Roberts fel, Columbia, 37; univ. fel, Chicago, 45-46, Ph.D, 48. Counsr, Stephens Col, 43-48; dir. counseling, FLA. STATE, 48-59, PROF. HIGHER ED, 59- Resident head, Chicago, 45-46; summer, intern supvr, State Col. Iowa, 42-43; vis. prof, Mich. State, 55 & 62; Brigham Young, 58; dept. counseling & guid, Nat. Defense Ed. Act Inst, Michigan State, 67-68. Chmn, Nat. Cmt. Gen. Ed, 59-60; pres, Am. Col. Personnel Asn, 62-63; mem. exec. coun, Am. Asn. Higher Ed. & Am. Personnel & Guid. Asn, 66-68. Alumni achievement award, State Col. Iowa, 67. Psychol. Asn. Student personnel work in higher education; relationship of faculty advising to professional counseling; coordination of instructional and student personnel areas. Publ: Faculty and college counseling; ed, Counseling and guidance in general education; co-auth, Personnel services in education. Address: 402 Education Bldg, Florida State University, Tallahassee, Fla. 32303.

HARDEN, CLYDE, b. Verdon, Nebr, Aug. 13, 20; m. 50; c. 1. INDUSTRIAL PSYCHOLOGY. B.A, Grinnell Col, 47; M.A, Drake, 52. Employ. mgr, Meredith Pub. Co, Iowa, 47-53; employ. supvr, Quaker Oats Co, 54-55, sales training supvr, 55-60; staff psychologict, Vernon Psychol. Lab, Ill, 60-61; sales training mgr, QUAKER OATS CO, 61-66, MGR. ORGN. DEVELOP, 66- U.S.N, 38-45, Ens. Psychol. Asn. Management development programs; psychological testing for selection, placement and development at all levels; utilization of programmed instruction in company training programs; organization analysis and development activities. Publ: Selection tests: how to develop your own scoring key, Personnel; Counseling skill: a universal training aid, J. Training; co-auth, Programmed instruction for supermarket employees, Training & Develop. J, 6/66. Address: Quaker Oats Co, Merchandise Mart Plaza, Chicago, Ill. 60654.

HARDENBERGH, PROF. WILLIAM S(PENCER), b. Evanston, Ill, July 10, 28. POLITICAL SCIENCE. B.A, M.A. & Ph.D.(polit. sci), Illinois, 54. Asst. POLIT. SCI, Illinois, 54; instr, Akron, 54-56, asst. prof, 56-60; SOUTHERN ILLINOIS, 60-66, ASSOC. PROF, 66- Fulbright lectr, Univ. Dacca, E.Pakistan, 58-59. Polit. Sci. Asn. Comparative government, international relations; political parties. Address: Dept. of Government, College of Liberal Arts & Science, Southern Illinois University, Carbondale, Ill. 62901.

HARDER, DEAN DONALD F(REDERICK), b. Independence, Mo, Apr. 20, 19; m. 46; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Kansas, 47, M.S, 49, Ed.D.(ed. psychol), 52. Instr, sch. ed, Kansas, 49-52; sr. counsr, student counseling center, California, Los Angeles, 52-55, lectr. psychol, 53-55, asst. prof. ed. & supvr. testing & guid, Davis, 55-60; COORDINATOR COUNSELING, SAN DIEGO STATE COL, 60-, DEAN COUNSELING & TESTING, 61- Consult, Screen Writers Guild, 53. U.S.N.R, 42-46, Lt.(jg). AAAS; Psychol. Asn; Personnel & Guid. Asn. Classification and selection of personnel; development of interest patterns; theory and technique of psychological counseling. Publ: Suggestion pertaining to a more sensitive indication of change of attitude as measured by the MTAI, Psychol. Report; Comparison of the achievement of three academic groups: initial exploration, Calif. J. Ed. Res; Differentiation of curricular groups based upon responses to unique items of the MMPI, J. Counseling Psychol. Address: 6541 Hillgrove Dr, San Diego, Calif. 92120.

HARDER, PROF. VIRGIL E, b. Ness City, Kans, July 19, 23; m. 51; c. 2. COMMUNICATIONS, BUSINESS ADMINISTRATION. B.S.C. & M.A, Iowa, 50; Ph.D.(commun), Illinois, 58. Instr. bus. letter & report writing, Illinois, 50-55; asst. prof. BUS. COMMUN. & ADVERT, WASHINGTON (SEATTLE), 55-59, assoc. prof, 59-66, dir. undergrad. prog, 66-67, PROF. & ASSOC. DEAN UNDERGRAD. PROG, 67- U.S.A, 43-45, Sgt. Business communication; marketing research; direct mail advertising. Publ: Co-auth, Building favorable impressions by mail, Am. Savings & Loan Inst, 61, Marine fuel tax refund study, State Wash, 66 & Using PERT in marketing research, Bus. Horizons, spring 66. Address: 6025 50th Ave, N.E, Seattle, Wash. 98115.

HARDERT, DR. RONALD ALBERT, b. Cincinnati, Ohio, Apr. 24, 38. SOCIOLOGY. B.A, Cincinnati, 60, M.A, 62; univ. fel, Indiana, 64-65, Nat. Sci. Found. grant, 65-66, Ph.D.(sociol), 67. ASST. PROF. SOCIOL, ARIZONA STATE, 66- Sociology of medicine; social psychological aspects of the urbanization of lower class white Appalachian migrants; theoretical interest in symbolic interactionism. Publ: Instructor's manual to accompany sociology, Harper, 68; co-auth, Trainer interventions and normative patterns in the T group, J. Appl. Behav. Sci, 4/66. Address: 1427 S. Mill Ave, Tempe, Ariz. 85281.

HARDESTY, DR. DONALD LEE, b. Mulberry, Kans, Dec. 10, 36; m. 61; c. 3. INDUSTRIAL PSYCHOLOGY. A.B, Wichita, 60; M.S, Kansas State, 63, Dunlap fel, 63, Ph.D.(indust. psychol), 64. Staff psychologist, Standard Oil Co, Ohio, 64-66; CHMN. DEPT. PSYCHOL. & DIR. INSTNL. RES, WASHBURN, 66- Consult, div. indust. ment. health, Menninger Found. & Vet. Admin. Hosps, 66-; Dept. Econ. Develop, State of Kans. & Kans. Cmn. Civil Rights, 67- Psychol. Asn. Experimental industrial psychology; manpower utilization; organization and institutional research. Publ: Co-auth, Influence of knowledge of results on monitoring performance, Perceptual & Motor Skills, 63; Response latency as a function of the temporal pattern of stimulation, Psychol. Record, 65; Characteristics of judged high potential management personnel, Personnel Psychol, spring 68. Address: Dept. of Psychology, Washburn University, Topeka, Kans. 66621.

HARDGRAVE, DR. ROBERT L(EWIS), JR, b. Greensburg, Pa, Feb. 6, 39. POLITICAL SCIENCE. B.A, Texas, 60; M.A, Chicago, 62, Woodrow Wilson, Carnegie & Ford fels. & Ph.D.(polit. sci), 66. ASST. PROF. GOVT, Oberlin Col, 66-67; TEXAS, AUSTIN, 67- Polit Sci. Asn; Asn. Asian Studies; Anthrop. Asn. Theory and method in comparative politics; political development and anthropology; politics of India and Ceylon; caste and politics in India; state politics in South India. Publ: The Dravidian movement, Bombay: Popular Prakashan, 65; The Nadars of Tamilnad, Univ. California, (in press); The DMK and the politics of Tamil nationalism, Pac. Affairs, winter 65. Address: Dept. of Government, University of Texas, Austin, Tex. 78712.

HARDIE, DR. IAN W, b. Modesto, Calif, Mar. 5, 38; m. 67. AGRICULTURAL ECONOMICS. B.S, California, Davis, 60; Ph.D.(agr. econ), California, Berkeley, 66. ASST. PROF. AGR. ECON, CONNECTICUT, 64- Nat. Sci. Found. grant, to Nat. Sci. Found. Summer Inst. Math. of Optimization Tech, Univ. Missouri, 65. Agr. Econ. Asn; Econ. Asn; Inst. Mgt. Sci. Price theory; linear programming; extensions of linear programming. Address: U21, University of Connecticut, Storrs, Conn. 06268.

HARDIE, PROF. ROBERT S(AMUEL), b. Kearney, Nebr, Nov. 16, 12; m. 54; c. 1. ECONOMICS. B.S, Nebr. State Teachers Col, Kearney, 33; B.A, Cambridge, 51, M.A, 56. Assoc. prof. ECON, SOUTHWEST MO. STATE COL, 55-66, PROF, 66- U.S.A, 41-46, Capt. Econ. Asn. Land tenure reform. Publ: Philippine land tenure reform. Address: Dept. of Economics, Southwest Missouri State College, Springfield, Mo. 65802.

HARDIN, PROF. CHARLES M(EYER), b. Lander, Wyo, Aug. 29, 08; m. 33; c. 1. POLITICAL SCIENCE. A.B, Wyoming, 30; M.A, Colorado, 38; fel, Harvard, 40-42, Ph.D, 42. Instr. govt, Harvard, 42-45; asst. prof. polit. sci, Chicago, 45-50, assoc. prof, 50-58, prof, 58-60; assoc. dir. soc. sci, Rockefeller Found, 61-64; PROF. POLIT. SCI. & DIR. INT. AGR. INST, CALIFORNIA, DAVIS, 64- Res. assoc, Cmn. Financing Higher Ed, 50-51. Vis. prof, Illinois, 47; Agr. & Mech. Col, Tex, 55; Pa. State; Colorado, 59; Ford prof, Chicago, 60. Consult, U.S. Dept. Agr, 45, 49; Tenn. Valley Authority, 48; Int. Bank Reconstruct. & Develop, 59; Nat. Adv. Cmn. Food & Fiber, 66-67. Polit. Sci. Asn; Agr. Econ. Asn; Agr. Hist. Soc. Government and the economy; political parties; public opinion; international economic development. Publ: Politics of agriculture, Macmillan, 52; Freedom in agricultural education, Univ. Chicago, 55; Food and fiber in the nation's politics, Nat. Adv. Cmn. Food & Fiber, 67. Address: Dept. of Political Science, University of California, Davis, Calif. 95616.

HARDIN, DR. CLARA A(LBERTA), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 64.

HARDIN, DR. CLIFFORD M(ORRIS), b. Knightstown, Ind, Oct. 9, 15; m. 39; c. 5. AGRICULTURAL ECONOMICS. B.S, Purdue, 37, M.S, 39, Ph.D.(agr. econ), 41; hon. Sc.D, Purdue, 52; LL.D, Creighton, 56; hon. Dr, Nat. Univ. Colombia, 68. Instr. agr. econ, Wisconsin, 41-42, asst. prof, 43-44; assoc. prof, Mich. State Col, 44-46, prof. & chmn. dept, 46-48, asst. dir, agr. exp. sta, 48-49, dir. & asst. dean, 49-53, dean, 53-54; CHANCELLOR, NEBRASKA, 54- Pres, Asn. Land-Grant Cols. & Univs, 59-60; dir, Fed. Reserve Bank of Kansas City, Omaha, Nebr, 61. Chmn. finance cmt, Fund Int. Conf. Agr. Economists, Inc, 55-; mem. & trustee, Rockefeller Found, 61; mem. exec. cmt, Coun. Higher Ed. Am. Republics, 63-; bd. dirs, Am. Coun. Ed, 63-66; bd, Nat. Sci. Found, 66- Agricultural marketing. Address: 308 Administration Bldg, University of Nebraska, Lincoln, Nebr. 68508.

HARDIN, PROF. EINAR, b. Ystad, Sweden, Nov. 1, 22; nat; m. 49; c. 1. ECONOMICS, INDUSTRIAL RELATIONS. B.A, Gothenburg Sch. Econ, Sweden, 45; M.A, Minnesota, 47, Ph.D.(econ), 57. Asst, indust. rels. center, Minnesota, 47-49, instr. indust. rels, 48-50, econ, 54-56; lectr, MICH. STATE, 56-57, asst. prof, 57-61, assoc. prof, 61-66, LABOR & INDUST. RELS, SCH. LABOR & INDUST. RELS, 66-67, PROF, 67-, ASSOC. DIR. RES, 68-, 62-64, res. assoc, 56-61, 65-66, acting assoc. dir. res. & planning, 61-62. Res. fel, Indust. Utredn, Inst, Sweden, 50-53; prin. investr. & dir, res. proj. econ. benefits & costs of retraining courses in Mich. Econ. Asn; Indust. Rels. Res. Asn. Manpower economics; benefit cost analysis; technological change; quantitative methods. Publ: Michigan's employment problem and the elasticity of substitution, J. Bus, 10/65; Full employment and workers education, Monthly Labor Rev, 5/67; Economic benefits and costs of retraining courses in Michigan, Sch. Labor & Indust. Rels, Mich. State Univ, 68. Address: School of Labor & Industrial Relations, Michigan State University, East Lansing, Mich. 48823.

HARDIN, DR. FRANCES S(TEELE), b. Kimball, Nebr, Aug. 3, 15; m. 43; c. 1. ECONOMICS. B.Sc, Nebraska, 38, M.A, 48; fel, Colorado, 52-54, Ph.D. (econ), 54. Assoc. prof. BUS, Colo. Woman's Col, 49-55; asst. prof, Ball State Teachers Col, 55-57; ASSOC. PROF, WESTERN MICHIGAN, 57- Am. Econ. Found. fel, 55; Ford fel, 59; Fulbright lectr, Abo Univ. & Turun Sch. Econ, Finland, 67-68. W.A.C, 42-45, Capt. Mkt. Asn. International trade in agricultural products. Publ: Any sputniks for retailing, J. Bus. Ed. Address: 930 Westmoreland Ave, Kalamazoo, Mich. 49007.

HARDIN, DR. LOWELL S(TEWART), b. Knightstown, Ind, Nov. 16, 17; m. 40; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Purdue, 39; Ph.D.(agr. econ), Cornell, 43. Asst. land econ. & farm mgt. Cornell, 39-41, asst. instr. farm mgt, 41-43; instr. agr. econ, Purdue, 43-44, asst. prof, 44-46, assoc. prof, 46-50, prof, 50-65, acting head dept, 54-57, head dept, 57-65; PROG. OFFICER AGR, FORD FOUND, 65- Dir, Agr. Develop. Coun, N.Y, 63-66; mem. agr. bd, Nat. Acad. Sci, 66-; panel world food supply, President's Sci. Adv. Cmt, 66-67. Agr. Econ. Asn.(secy-treas, Farm Econ. Asn, 54-59, v.pres, 60, pres, 64-65); Int. Conf. Agr. Econ. Production economics; farm management; international economic development. Publ: Co-auth, Farm work simplification. Address: Ford Foundation, 320 E. 43rd St, New York, N.Y. 10017.

HARDIN, DR. RECTOR R(OEMILT), b. Rutherford Co, N.C, Dec. 26, 02; m. 35; c. 2. ECONOMICS. A.B, Berea Col, 29; A.M, Duke, 32, fel, 34-35, Ph.D, 35; Harvard, 36, 40; C.L.U, Am. Col. Life Underwriters, 59. Prof. econ. & dean men, Chickasaw Col, 32-33; lab. asst. acct, Duke, 33-34; assoc. prof. econ. & polit. sci, Berea Col, 35-40, prof. econ, 40-46, acting dean labor, 42, chmn. dept. econ. & bus. admin, 42-46; prof. econ. hist, Arkansas, 46-47; prof. econ. & head dept. econ. & bus. admin, Howard Col, 47-57; prof. mgt, Col. William & Mary, 57-58; prof. bus. admin. & chmn. dept, SOUTHERN MISSISSIPPI, 58-66, PROF. FINANCE & COORDINATOR GRAD. STUDIES, SCH. BUS, 66- Life Ins. Mgt. vis. fel, 52. Chmn, State Cmn. Interstate Trade Barriers, Ky, 39-40. Econ. Asn. Finance; economic theory; insurance. Publ: Decentralization in Southern Appalachia; Conservation of manpower in Alabama; Contributions of life insurance to capital formation in the South. Address: Dept. of Finance, University of Southern Mississippi, Hattiesburg, Miss. 39401.

HARDING, DR. FRANCIS D(AVID), b. Salem, Mass, Sept. 24, 23; m. 50; c. 3. PSYCHOLOGY. B.S, Boston, 47; M.A, Illinois, 48; fel. & Ph.D.(psychol), Purdue, 53. Training supvr, Kaiser Aluminum & Chem. Corp, 53; exec. recruitment supvr, Spiegel, Inc, 54; res. psychologist, personnel res. lab, Air Force Personnel Training Res. Center, 55-65; dir. classification div, off. selection, Peace Corps, 65-67; CHIEF ASSESSMENT DIV, PERSONNEL DIV, AGENCY INT. DEVELOP, 67- Psychol. Asn. Selection and classification; training research. Publ: Incentives for hazardous work; co-auth, Analysis of a job evaluation system & Effects of personal characteristics on relationships between attitudes and job performance. Address: 8631 Buckboard Dr, Alexandria, Va. 22308.

HARDING, DR. GEORGE FRANKLIN, b. Rochester, Ind, May 23, 24; m. 61; c. 4. PSYCHOLOGY. B.S, Purdue, 47, M.S, 49, Ph.D, 52. Adminstr. psychol. serv, div. ment. health, State Bd. Health, Hawaii, 56-61, CLIN. PSYCHOLOGIST, counseling clin, 61-67; PSYCHOL. CONSULT. SERV, 67- Lectr, Hawaii, 56- Consult, Nat. Soc. Crippled Children, 57- U.S.N, 42-46; U.S.A, 49-56, Res, 56-, Lt. Col. Psychol. Asn. Psychological aspects of lysergic acid diethylamide treatment; social dependency relative to personality traits; neurological conditions and compensatory adaptive mechanisms. Publ: Maturation and the spiral aftereffect; Differentiation of schizophrenic reactions from similar conditions; Military clinical psychology. Address: Psychological Consultation Service, 1163 S. Beretania St, Suite 203-205, Honolulu, Hawaii 96814.

HARDING, PROF. HAROLD F, b. Niagara Falls, N.Y, July 30, 03; m. 35; c. 3. SPEECH. A.B, Hamilton Col, 25, L.H.D, 62; M.A, Cornell, 29, Ph.D.(rhet. & pub. address), 37. Inst. speech, Iowa State, 25-27; asst. Eng, Harvard, 27-28; instr, SPEECH, Cornell, 28-31; from asst. prof. to prof, George Washington, 31-46; Ohio State, 46-66; H.Y. BENEDICT PROF, TEXAS, EL PASO, 66- Rockefeller Found. fel, 46; lectr, U.S. Mil. Acad, 53; U.S. Army War Col, 50, mem. nat. strategy seminars, 56-57, 59; vis. prof, California, Santa Barbara, 65-66. Summers, vis. prof, Missouri, 38, City Col. New York, 39, Michigan, 52, 56, British Columbia, 64; lectr, U.S. Army Infantry Sch, 67. Consult, U.S. Army Command & Gen. Staff Col, 48-56; Battelle Mem. Inst, 60- Adv. ed, J. Creative Behav, 67- U.S.A, 41-46, Res, 46-64, Maj. Gen; Bronze Star Medal; Legion of Merit & Oak Leaf Cluster. AAAS; Speech Asn.(ed, Quart. J. Speech, 48-51); Inst. Strategic Studies. Rhetorical theory; British and American public address; political speaking; national security studies. Publ: A source book for creative thinking; The age of danger; ed, Lectures on rhetoric and Belles Lettres, Southern Ill. Univ, 64. Address: Dept. of Speech, University of Texas at El Paso, El Paso, Tex. 79999.

HARDING, DR. THOMAS G, b. Detroit, Mich, May 20, 37; m. 58; c. 2. ANTHROPOLOGY. A.B, Michigan, 58, M.A, 60, Ph.D.(anthrop), 65. Instr. ANTHROP, California, Santa Barbara, 61-63; res. assoc, Michigan, 63-64, vis. asst. prof, 65; ASST. PROF, CALIFORNIA, SANTA BARBARA, 66- Nat. Sci. Found. fel, 65-66. Anthrop. Asn; Ethnol. Soc. Primitive economics; political organization and change in non-Western societies; cultural evolution. Publ: Co-auth, Evolution and culture, Univ. Michigan, 60; auth, Voyagers of the Vitiaz Strait, Univ. Washington, 67. Address: Dept. of Anthropology, University of California, Santa Barbara, Calif. 93106.

HARDMAN, DR. DALE G, b. Malad, Idaho, Nov. 1, 17; m. 44; c. 5. SOCIOLOGY, SOCIAL WORK. B.S, Brigham Young, 42; M.A, Chicago, 51; Ed.D. (counseling), Illinois, 64. Probtn. officer, Juvenile Court, Salt Lake Co, Utah, 44-46; caseworker, Utah State Indust. Sch, 46-49, placement supvr, 51-55; child welfare worker, Child Welfare Dept, Salt Lake County & Utah County, 49-50; dist. supvr, Div. Voc. Rehab, 55-57; asst. prof. soc. work, Missouri, 58-63; Wisconsin, Milwaukee, 63-65; ASSOC. PROF. SOCIOL, WIS. STATE, OSHKOSH, 65- Lectr, insts. in Mo. Wis, Minn, Nebr, Ill, Ky. & Mich, 58-67; Delinquency Inst, St. Louis Univ, 62; Inst. Delinquency Supv, Minneapolis, 63; Insts. for Teachers of Disadvantaged Children, 65-66. Consult, Mayor's Conf. Juvenile Delinquency, St. Louis, 60-61; Joint Cmn. Correctional Manpower, 66. Med.C, U.S.A, 42-43. Asn. Social Workers; Nat. Coun. Crime & Delinquency; Soc. Criminol. Juvenile delinquency; juvenile gangs; juvenile corrections. Publ: Some aspects of authority, Nat. Coun. Crime & Delinquency, 63; The case for eclecticism, Crime & Delinquency, 7/64; Historical perspectives of gang research, J. Res. Crime & Delinquency, 1/67. Address: Dept. of Sociology, Wisconsin State University, Oshkosh, Wis. 54902.

HARDMAN, J(ACOB) B(ENJAMIN) S(ALUTSKY), Econ, Soc. Sci, see 10th ed, Soc. & Behav. Vols.

HARDT, DR. JOHN PEARCE, b. Seattle, Wash, June 16, 22; m. 53; c. 4. ECONOMICS. B.A, Washington (Seattle), 45, M.A, 48; A.M, Columbia, 50, Ph.D, 55. Instr. econ, Air Univ, 53-56; mem. staff, Coun. Econ. & Indust. Res, Inc, 56-60; PROF. ECON, MARYLAND, 60-; DEPT. HEAD, STRATEGIC STUDIES DEPT, RES. ANAL. CORP, 60- Lectr, Huntingdon Col, 53-60. Consult, res. prog. on U.S.S.R, Ford Found, 51-52. Rockefeller award, Columbia, 50. U.S.A, 42-46, Capt. Econ. Asn. Soviet economics; labor economics; economic theory. Publ: Economics of the Soviet electric power industry; Cold war economic gap: an increasing threat to American supremacy; ed, Mathematics and computers in social planning, Yale, 67. Address: 8028 Cindy Lane, Bethesda, Md. 20034.

HARDT, DR. ROBERT H, b. Rensselaer, N.Y, Aug. 27, 27; m; c. 2. SOCIOLOGY. B.A, State Univ. N.Y. Albany, 49; M.A, Indiana, 57; Ph.D.(sociol), Syracuse, 64. Sr. sociologist, State Ment. Res. Unit, N.Y, 54-59; ASSOC. PROF. SOCIOL, SYRACUSE, 59-, ACTING DIR, YOUTH DEVELOP. CENTER, 65-, res. assoc, 59-61, sr. res. assoc, 61-65. U.S.A, 45-46. Cancer Soc; Sociol. Asn; Soc. Study Social Probs. Juvenile delinquency; research methods. Publ: Co-auth, Development of self-report instruments in delinquency research, 65 & National characterization of Upward Bound programs, 67, Youth Develop. Center, Syracuse Univ. Address: Youth Development Center, Syracuse University, 940 S. Crouse Ave, Syracuse, N.Y. 13210.

HARDTKE, DR. ELDRED F(REDERICK), Psychiat, Neurol, see 11th ed, Phys. & Biol. Vols.

HARDWICK, PROF. C(LYDE) T(HOMAS), Econ, see 10th ed, Soc. & Behav. Vols.

HARDY, PROF. BENJAMIN ANDREW, b. Monticello, Ark, July 19, 07; m. 44; c. 2. BUSINESS ECONOMICS. B.A, Hendrix Col, 50; LL.B, Ark. Law Sch, 51; M.A, Arkansas, 52. From gen. mgr. to secy-treas, Drew Cotton Seed Oil Mill, Ark, 29-44; self-employed, real estate & construct, 45-48; from instr. to asst. prof. BUS. ECON, LITTLE ROCK, 48-52, ASSOC. PROF, 52- Dir. Commercial Loan & Trust Co; city treas, Monticello, 30. U.S.N, 44-45. Address: Dept. of Business Economics, Little Rock University, Little Rock, Ark. 72204.

HARDY, PROF. DOUGLAS W(OODFORD), b. Salt Lake City, Utah, June 28, 18; m. 48; c. 9. SOCIOLOGY. B.A, Utah, 41, fel, 46-47, M.A, 47; Chicago, 46-48. From instr. to ASSOC. PROF. SOCIOL, SAN JOSE STATE COL, 48- San Jose State Col. Found. res. grant, 66-67. Nat. Coun. Family Rels; Sociol. Asn; Acad. Polit. & Soc. Sci. Courtship and marriage, family life; population; recreation. Address: 957 Arnold Way, San Jose, Calif. 95128.

HARDY, PROF. HAROLD E(RNEST), b. Mason City, Iowa, Mar. 2, 03; m. 32; c. 1. BUSINESS ADMINISTRATION. A.B, Pomona Col, 25; Ph.D, Minnesota, 48. Asst. prof, Missouri, 42-46; lectr, Minnesota, 46-47; assoc. prof, Washburn, 47-48; PROF. BUS. ADMIN, MASSACHUSETTS, AMHERST, 48- Econ. Asn; Mkt. Asn. Channels of distribution of consumer goods. Publ: Industrial attractions of Pioneer Valley; Population trends and characteristics in western Massachusetts. Address: Dept. of Marketing, School of Business Administration, University of Massachusetts, Amherst, Mass. 01002.

HARDY, PROF. KENNETH R(ALPH), b. Salt Lake City, Utah, Apr. 3, 24; m. 44; c. 6. PSYCHOLOGY. B.A, Utah, 48, M.A, 49; fel, Michigan, 51-54, Ph.D.(psychol), 54. Asst. study dir, surv. res. center, Michigan, 49-51; instr. PSYCHOL, BRIGHAM YOUNG, 54-56, asst. prof, 56-59, assoc. prof, 59-63, PROF, 63- Consult, Univ. Utah, 61-62. U.S.A, 43-47. AAAS; Psychol. Asn. Leadership training; motivation; attitude change; group dynamics. Publ: The interpersonal game, Brigham Young, 67; An appetitional theory of sexual motivation, Psychol. Rev, 1/64. Address: Dept. of Psychology, Brigham Young University, Provo, Utah 84601.

HARDY, PROF. LEROY CLYDE, b. Okla, Mar. 29, 27. POLITICAL SCIENCE. B.A, California, Santa Barbara, 49, Haynes Found. fel, 52-53, Ph.D.(polit. sci), California, Los Angeles, 55. Instr. POLIT. SCI, CALIF. STATE COL. LONG BEACH, 53-55, asst. prof, 55-59, assoc. prof, 59-63, PROF, 63-, head dept, 56. Asst, State Reapportionment Cmn, Calif, 50-51, consult, 60-61. Consult, Calif. Gov, 64-65; Calif. Democratic Congressional Del, 65; Calif. Congressional Del, 66-67; City of Newport Beach, 67. U.S.N, 45-46. Am. Polit. Sci. Asn; Hansard Soc; Polit. Studies Asn. U.K. Comparative and American politics; political theory; reapportionment; introductory course of political science and the legislature. Publ: California government, Harpers, 2nd ed, 64; co-auth, Politics in California, Dickenson, 67. Address: California State College at Long Beach, 6101 E. Seventh St, Long Beach, Calif. 90804.

HARDY, DR. MARTHA C(RUMPTON), b. Coles Creek, Miss, Jan. 15, 91. PSYCHOLOGY. Ph.B, Chicago, 17, M.A, 18, Ph.D.(psychol), 28. Prof. psychol. & ed, Baylor Col, 18-19; sch. psychologist, child study bur, Chicago Schs, 19-20; from instr. to asst. prof. ed. psychol, Texas, 20-22; staff psychologist, Elizabeth McCormick Mem. Fund, 23-35, asst. dir. in charge child res, 36-55; coordinator training prog, ILL. VISUALLY HANDICAPPED INST, 56-62, dir. personal serv, 62-65, clin. serv, 66-67, EMER. DIR, 67- Award, Am. Ed. Res. Asn, 39. AAAS; Am. Psychol. Asn; Soc. Res. Child Develop; Int. Coun. Psychol. Publ: Healthy growth, a study of the influence of health education on growth and development of school children; Frequent illness in childhood, physical growth and final size, Am. J. Phys. Anthrop; Socio-economic background of children with impaired hearing, Child Develop. Address: 100 Bay Place, Apt. 1715, Oakland, Calif. 94610.

HARDY, DR. MILES WILLIS, b. Ft. Fairfield, Maine, Dec. 28, 26; m. 49; c. 3. BEHAVIORAL SCIENCE, CLINICAL PSYCHOLOGY. B.S, Ball State, 51; M.S, Fla. State, 55, Ph.D.(clin. psychol), 60. Clin. psychol. trainee, Vet. Admin. Neuropsychiat. Hosp, Gulfport, Miss, 55-57, Vet. Admin. Hosp, Biloxi, 57-58, Vet. Admin. Regional Off, Atlanta, Ga, 58; staff psychologist, McDonald Training Center Found, Tampa, Fla, 58-60; asst. prof. psychol, SOUTH FLORIDA, 60-67, ASSOC. PROF. BEHAV. SCI, 67- Consult, McDonald Training Center Found, 60-62; consult. dir, Assoc. Psychol. Serv, 60- U.S. Merchant Marine, 45-47. Psychol. Asn; Nat. Rehab. Asn. Social deprivation; use of teaching machines with the retarded; new techniques in psychotherapy; diagnostic techniques with the brain damaged. Publ: Co-auth, Perception of binaural beats in organic and non-organic patients, Am. Arch. Neurol. & Psychol, 58, Automated instruction for retarded children, Am. J. Ment. Deficiency, 64 & Programmed instruction for retarded children, In: Programmed teaching, Philos Library, 67. Address: Dept. of Behavioral Science, University of South Florida, Tampa, Fla. 33620.

HARDY, DR. MIRIAM PAULS, b. St. Louis, Mo, Feb. 4, 12; m. 60. AUDIOLOGY, SPEECH PATHOLOGY. A.B, Harris Teachers Col, 32; dipl. Washington, 34; A.M, Wayne State, 39; Ph.D.(audiol), Northwestern, 49. Teacher, N.J. State Sch. Deaf, 34-41; instr. deaf ed, Mich. State Col, 41-42; clin. supvr. hearing ther, Spec. Ed. Clins, Indiana State, 42-44; lectr, audiol, Northwestern, 48-49; asst. prof. OTOLARYNGOL. & ENVIRON. MED, HOPKINS UNIV. & HOSP, 49-55, ASSOC. PROF, 55- Instr, Am. Acad. Ophthalmol. & Otolaryngol, 50-, award of merit, 64. Consult, Md. State Health Dept, 50- Mem, subcmt. hearing, lang. & speech exams, perinatal collab. proj, Nat. Inst. Neurol. Diseases & Blindness, 59-, commun. sci. study sect, 62-66, task force II, Neurol. Impaired Child, 65-66; Secy. Health, Ed. & Welfare's Adv. Cmt. on Ed. of Deaf in U.S, 64-65; seminar. Nat. Standards Teachers of Brain Injured Child, 65. U.S.N.R, 44-48, Lt. Fel. Speech & Hearing Asn.(v.pres, 59); Acoustical Soc. Am. Human communication and communicative disorders; differential diagnosis and management of children with problems; development of hearing, language and speech in normal and aberrant children. Publ: Speech reading, In: Hearing and deafness, Murray Hill, 47 & rev. ed, 59; co-auth. An analysis of language development in children with impaired hearing, Acta-Oto-Laryngologica, Suppl. 141, 58; auth, The evaluation of communicative disorders in young children, In: Trends in audiologic assessment and rehabilitation of children, Syracuse Univ, 66. Address: 2533 Pickwick Rd, Baltimore, Md. 21207.

HARDYCK, DR. CURTIS D(ALE), b. Mitchell, S.Dak, July 5, 29; m. 62. PSYCHOLOGY. A.B, California, 52, Ph.D, 60. Asst. prof. PSYCHOL, med. center, CALIFORNIA, San Francisco, 60-67; RES. ASSOC, INST. HUMAN LEARNING, BERKELEY, 67- AAAS; Psychol. Asn; Soc. Psychophysiol. Res; Soc. Res. Child Develop. Personality assessment; statistical methods; language development. Publ: Co-auth, Weak measurement vs. strong statistics: an empirical critique of S.S. Stevens' proscriptions on statistics, Ed. & Psychol. Measurement, 66; Feedback of speech muscle activity during silent reading: rapid extinction, Science, 66; Hypotheses concerning personality and motor activity relationships; some emp. evidence, J. Personnel & Soc, 66. Address: Institute of Human Learning, University of California, Berkeley, Calif. 94720.

HARE, PROF. A(LEXANDER) PAUL, b. Washington, D.C, June 29, 23; m. 47; c. 4. SOCIOLOGY. B.A, Swarthmore Col, 47; B.S, Iowa State Col, 48; M.A, Pennsylvania, 49; Ph.D.(sociol), Chicago, 51; Michigan, 55. Asst. study ed, Princeton, 51-52; instr. sociol, Wellesley, 52-53; Nat. Inst. Ment. Health fel, Harvard, 53-55; instr. sociol, sch. pub. health, 55-58, lectr. soc. rels, 58-60; assoc. prof. SOCIOL, HAVERFORD COL, 60-66, PROF, 66-, CHMN. DEPT, 65- Assoc. sociologist, Mass. Gen. Hosp, 55-56. U.S.A, 43-46, Lt. Sociol. Asn. Small groups. Publ: Co-ed, Small groups; auth, Handbook of small group research, Macmillan, 62. Address: 715 Brooke Rd, Wayne, Pa. 19087.

HARE, DR. NATHAN, b. Slick, Okla, Apr. 9, 34; m. 56. SOCIOLOGY, RACE RELATIONS. A.B, Langston, 54; M.A, Chicago, 57, Ph.D.(sociol), 62; Northwestern, 59. Instr. sociol, Va. State Col, 57-58; Howard, 61-63, asst. prof, 63-67; CONSULT. & LECTR. RACE RELS, 67-; DIR, BLACK STUDIES CURRICULUM, SAN FRANCISCO STATE COL, 68- Consult, teachers col, Columbia, 66-67; Urban League, Wash, D.C. & Cmn. Civil Disorders, 67- U.S.A.R, 58-64. Social. Asn. Demography; Negro occupational change; crime; collective behavior; urban sociology; social problems. Publ: The Black Anglo-Saxons, Marzani, 65; Recent trends in the occupational mobility of Negroes: an intracohort analysis, Soc. Forces, 12/65; Understanding the causes of the black rebellion, London Times, 7/67. Address: 685 44th Ave, San Francisco, Calif. 94121.

HAREVEN, DR. TAMARA K, Mod. U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HARGREAVES, DR. WILLIAM A(LFRED), b. Portland, Ore, Apr. 13, 33; m. 56; c. 3. PSYCHOLOGY. A.B, Chicago, 53, M.A, 55, Ph.D, 59. RES. PSYCHOLOGIST, LANGLEY PORTER NEUROPSYCHIAT. INST, 59-; ASST. PROF. IN RESIDENCE, SCH. MED, CALIFORNIA, SAN FRANCISCO, 66-, lectr. med. psychol, 59-66. Asst. prof, San Francisco State Col, 61-62; res.

scientist develop. award, Nat. Inst. Ment. Health, 67-72. AAAS; Psychol. Asn. Interpersonal interaction processes; symptom evolution in psychosis; clinical observation and rating methods in psychiatric hospital care. Address: Langley Porter Neuropsychiatric Institute, 401 Parnassus Ave, San Francisco, Calif. 94122.

HARGROVE, DEAN M(ERWIN) M(ATTHEW), b. Enid, Okla, Jan. 22, 10; m. 32; c. 2. BUSINESS ADMINISTRATION. A.B, Omaha, 32; A.M, Iowa, 34; LL.D, Phillips, 51. Instr, Omaha, 34; registr. & instr, Lincoln Jr. Col, 35-36; from instr. to PROF. BUS. ADMIN. & DEAN, TULSA, 37- Consult, Econ. Opportunity Prog, Tulsa, 67- Industrial testing on retail level. Publ: Co-auth, Business policy cases with behavioral implications, Irwin, 66. Address: College of Business Administration, University of Tulsa, Tulsa, Okla. 74104.

HARIK, DR. ILIYA F, b. Lebanon, July 20, 34; U.S. citizen; m. 59; c. 1. POLITICAL SCIENCE. B.A, American Univ. Beirut, 56, M.A, 58; Brit. Coun. fel, London Sch. Econ, 59-60; Ph.D.(polit. thought), Chicago, 64. ASST. PROF. POLIT, INDIANA, 64-, Ford Found. res. grant, int. affairs center, 66. Consult, Am. Res. Center in Egypt, 66-67. Polit. Sci. Asn; Mid. East Studies Asn. N.Am; Mid. East Inst. Comparative study of political change, especially developing countries; comparative theory and methodology; analysis of field research data on politics of social and economic change in rural Egypt. Publ: Politics and change in a traditional society, Princeton, 68; The Iqra system in Lebanon: a comparative political view, Mid. East J, 8/65; Maronite church and political change, In: Politics in Lebanon, Wiley, 66. Address: Dept. of Government, College of Arts & Sciences, Indiana University, Bloomington, Ind. 47405.

HARING, PROF. (HARRY) ALBERT, (JR), b. Cleveland, Ohio, June 11, 01; m. 25; c. 2. MARKETING. A.B, Yale, 22, A.M, 23, Ph.D, 25. Instr. econ, Yale, 25-26; asst. prof, sch. commerce, North Carolina, 26-29; col. bus. admin, Lehigh, 29-35, assoc. prof, 35-39; PROF. MKT, SCH. BUS, INDIANA, 39- Expert wholesale div, Census of Bus, 35-38; dir. installment res, Consumer Credit Inst. Am, Inc, 38-40; mem. faculty, Nat. Sales Execs. Grad. Sch. Sales Mgt. & Mkt, 53-55. Consult, Nat. Retail Furniture Asn, 39-V.cmn. mkt. cmt, Cmt. Econ. Develop, 43-47. Mkt. Asn.(secy, 37-42, pres, 43-); Econ. Asn. Credit and consumer problems; sales incentives, management and research. Publ: Co-auth, Retail price cutting and its control by manufacturers: Trading stamp practice and pricing policy; Survey of special incentives for salesman. Address: School of Business, Indiana University, Bloomington, Ind. 47401.

HARING, PROF. DOUGLAS G(ILBERT), b. Watkins Glen, N.Y, Aug. 6, 94; m. 18; c. 1. ANTHROPOLOGY. B.S, Colgate, 14, D.Sc, 62; B.D, Rochester Theol. Sem, 23; Dipl, Sch. Japanese Lang. & Culture, Tokyo, 21, Dipl, 25; A.M, Columbia, 23; LL.D, Syracuse, 62. Acting prof. hist, Tokyo Gakuin, 25-26; lectr. sociol, Columbia, 26-27; from asst. prof. sociol. to assoc. prof, SYRACUSE, 27-46, prof. ANTHROP, 46-61, EMER. PROF, 61-, coordinator Asian studies, 54-61. Vis. lectr, Harvard, 44-46, Viking Fund fel, 48; res. assoc. Pac. Sci. Bd, Nat. Res. Coun, 51-52. Consult, off. asst. secy, U.S. Dept. Army, D.C, 49. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; fel. Sociol. Asn; Asn. Asian Studies; Japanese Soc. Ethnol; Asiatic Soc. Japan. Ethnography, especially of eastern Asia and Japan; translations and editing of Japanese source materials; relation of personality and cultural milieu; Ryūkū Islands. Publ: Co-auth, Order and possibility in social life, Richard Smith, 40, co-auth. & ed, Japan's prospect, Harvard, 46 & auth. & ed, Personal character and cultural milieu, Syracuse Univ, 56. Address: 117 Euclid Terr, Syracuse, N.Y. 13210.

HARING, DR. JOSEPH E(MERICK), b. Mansfield, Ohio, July 19, 31; m. 56; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Ohio State, 52; Munich, Germany, 55; univ. & Danforth Found. fels. & Ph.D, Columbia, 59. Lectr. econ, City Col. New York, 57; Columbia, 57-58, instr, Barnard Col, 58-59; asst. prof, OCCIDENTAL COL, 59-63, Brookings res. prof, 61-62, ASSOC. PROF. ECON, 63-, RICHARD W. MILLAR ASSOC. PROF. ECON. & FINANCE, 64- CHMN. DEPT. ECON, 62- Vis. assoc. prof, California, Los Angeles, 65. U.S.A, 53-55, Res, 55-60. Econ. Asn; Economet. Soc; Royal Econ. Soc. International trade; economic theory; decision theory; trade and development; economics of national security. Publ: Dynamic trade theory and growth in poor countries, Kyklos, 63; Utility theory and profit maximization, Am. Econ. Rev, 59; Financial policy in postwar Thailand; external equilibrium and domestic development, Asian Surv, 5/68. Address: Dept. of Economics, Occidental College, Los Angeles, Calif. 90041.

HARING, PROF. PHILIP S(MYTH), b. White Plains, N.Y, Oct. 7, 15; m. 52; c. 1. POLITICAL SCIENCE. B.A, Harvard, 37; M.A, Chicago, 53, Ph.D. (polit. sci), 54. Asst. prof, Boston, 48-51; lectr, Northwestern, 53-54; from asst. prof. to ASSOC. PROF. POLIT. SCI, KNOX COL.(ILL), 54- U.S.N.R, 40-42. Polit. Sci. Asn. Political, economic and social theory; intellectual history. Address: 30 Hillcrest Dr, Galesburg, Ill. 61401.

HARING, PROF. ROBERT C(HARLES), b. Bethlehem, Pa, Dec. 23, 33; m. 54; c. 4. MARKETING, RESOURCE ECONOMICS. B.A, Indiana, 54, M.B.A, 58, Ph.D.(econ. & bus), 62. Instr. econ. & bus, Indiana, 58-60; asst. prof. MKT. & FINANCE, Montana, 60-64; assoc. prof, ALASKA, 64-67, PROF, 67- Summers, Found. Econ. Ed. fel, Bank Am. San Francisco, 63, Ford Found. Faculty fel. regional econ, Washington (Seattle), 64, Ayres Faculty fel, Stonier Grad. Sch. Banking, Rutgers, 66 & Faculty Workshop Int. Bus, N.Y. Univ, 67. Mem, Gov. State Adv. Cmn. Manpower Develop, Alaska, 67- Capt, U.S.A.F, 54-57. Econ. Asn; Asn. for Ed. Int. Bus; Mkt. Asn; Regional Sci. Asn. Quantitative marketing and logistics; developing regions and economies; quantitative models of regional development, production-marketing systems analysis and marketing forecasting; feasibility of natural resource-based industries. Publ: Marketing of household refrigerators, Montana State Univ, 63; co-auth, The economics of the Montana forest products industry, the upper midwest economic study, Univ. Minnesota, 64; auth, Prices and costs in the North Star borough, Alaska, Univ. Alaska, 65. Address: College of Business, Economics and Government, University of Alaska, College, Alaska 99701.

HARITON, DR. THEODORE, Personnel Psychol, see 10th ed, Soc. & Behav. Vols.

HARKAVY, DR. OSCAR, b. New York, N.Y, May 28, 23; m. 50; c. 2. ECONOMICS. A.B, Columbia, 44; Harvard & Mass. Inst. Tech, 45; M.B.A, Syracuse, 48, Ph.D.(econ), 52; Pennsylvania, 50. From instr. to assoc. prof. bus. admin, Syracuse, 46-53; asst. to dir, div. econ. develop. & admin, FORD FOUND, 53-55, prog. assoc, prog. econ. develop. & admin, 55-61, assoc. dir, 61-63, PROG. OFFICER IN CHARGE POP. OFF, 63- Consult, Dept. Health, Ed. & Welfare, 67- U.S.A.A.F, 43-46, Lt. Econ. Asn; Finance Asn; Pop. Asn. Research and training in population problems and family planning administration; economic and business research; corporation finance. Publ: Relation of retained earnings to common stock prices, J. Finance; Population growth & economic development, Clin. Obstet. & Gynec, 9/64; Family planning programs: effect on the birthrate, Int. Planned Parenthood Fedn, 4/67. Address: Ford Foundation, 320 E. 43rd St, New York, N.Y. 10017.

HARKER, DR. GEORGE S(TANLEY), b. Milwaukee, Wis, Oct. 2, 18; m. 42; c. 3. EXPERIMENTAL PSYCHOLOGY. B.S, Temple, 41; M.A, New Hampshire, 47; Ph.D.(exp. psychol), Iowa, 50. Asst, lab. appl. exp. psychol, Tufts, 47-48; PSYCHOPHYSIOLOGIST & HEAD VISION SECT, PSYCHOL. DEPT, U.S. ARMY MED. RES. LAB, FT. KNOX, 50- U.S.A, 42-45, Lt. Psychol. Asn; Optical Soc. Vision; perception; learning. Publ: Instrument for the study of binocular vision, J. Optical Soc. Am; Delay of reward and performance of an instrumental response, J. Exp. Psychol; co-auth, Some observations and measurements of the Panum phenomenon, Perception & Psychophysics, 9/67. Address: 10016 Prairie Dr, Valley Station, Ky. 40272.

HARKINS, DR. PAT GARET, b. Houston, Tex, Feb. 20, 33; m. 59; c. 3. PSYCHOLOGY. B.S, Houston, 56, M.A, 61, Ph.D.(psychol), 66. Psychologist, Houston Speech & Hearing Center, 59-61; lectr. PSYCHOL, United Col, Winnipeg, 63-66, ASST. PROF, 66-67; GUELPH, 67- Psychol. Asn. Psychology of values; psychological ecology; general systems theories. Address: Dept. of Psychology, University of Guelph, Guelph, Ont, Can.

HARKNESS, DR. JAMES P(ERRY), b. Detroit, Mich, 26; m; c. 2. SOCIOLOGY, MEDICAL SOCIOLOGY. B.A, Mich. State, 50, M.A, 52, Ph.D.(sociol, anthrop), 61. Sociologist, inst. community develop. & serv, Mich. State, 56-59, asst. proj. dir. hosp-community rels. study dept. sociol. & anthrop, 59-61; sociologist, behav. sci. sect, div. community health serv, U.S. Pub. Health Serv, Wash, D.C, 61-64; asst. prof. sociol, dept. hosp. admin, sch. med, North Carolina, 64-66; ASST. TO PRES. COMMUNITY AFFAIRS, N.J. COL. MED. & DENT, 66-, ACTING CHMN. DEPT. PREV. MED, 67-, ACTING ASST. DIR, N.J. REGIONAL MED. PROG, 67- U.S.A, 44-46. Sociol. Asn. Sociology of organizations; community organization. Address: New Jersey College of Medicine & Dentistry, 88 Ross St, East Orange, N.J. 07018.

HARL, PROF. NEIL E(UGENE), b. Appanoose Co, Iowa, Oct. 9, 33; m. 52; c. 1. ECONOMICS, LAW. B.S, Iowa State, 55, Ph.D.(econ), 65; J.D, Iowa, 61. Field ed, Wallaces Farmer, 57-58; res. assoc. law, Iowa, 58-61; agr. economist, U.S. Dept. Agr, 58-64; assoc. prof. ECON, IOWA STATE, 64-67, PROF, 67-, summer exten. asst, 55. Consult, U.S. Treas. Dept, 67. U.S.A, 55-57, Res, 57-62, Capt. Agr. Econ. Asn. Identification and measurement of economic effects of the legal framework and impact on decision making at the level of the individual, family and firm. Publ: Modifying institutional-legal relations to facilitate adjustments in agriculture, J. Farm Econ, 64; Selected aspects of employee status in small corporations, Kans. Law Rev, 64; Considerations in incorporating farm businesses, Fla. Law Rev, 65. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50010.

HARLAN, PROF. HOWARD, b. Washington, D.C, July 28, 11. SOCIOLOGY, CRIMINOLOGY. A.B, Richmond, 33; Ph.D, Virginia, 41. From instr. to assoc. prof. SOCIOL, Alabama, 36-46; prof, Birmingham-South. Col, 46-63; North Carolina, Charlotte, 63-66; PROF. & CHMN. DEPT, DELAWARE, 66-U.S.N.R, 43-46, Lt. Sociol. Asn. Human ecology; leadership. Address: Dept. of Sociology & Anthropology, University of Delaware, Newark, Del. 19711.

HARLAN, PROF. WILLIAM H(ARRELL), b. Independence, Kans, Jan. 24, 17; m. 46; c. 4. SOCIOLOGY. A.B, Nebraska, 38, M.A, 40; Ph.D.(sociol), Chicago, 50. Asst. prof, Southern Illinois, 46-48, assoc. prof, 49-52; assoc. prof. SOCIOL, OHIO, 53-58, PROF, 58-, chmn. dept, 53-66. U.S. Pub. Health Serv. res. fel, 52-53; vis. prof, Punjab Univ, India, 62-63; res. scholar, U.S. Ed. Found, India, 67. U.S.N.R, 42-46, Lt. Fel. Sociol. Asn; fel. Geront. Soc; Anthrop. Asn; Asn. Pub. Opinion Res; Asn. Asian Studies. Social psychology. Address: Dept. of Sociology, Ohio University, Athens, Ohio 45701.

HARLESS, WILLIAM, b. Birmingham, Ala, Nov. 20, 33; m. 58; c. 1. PSYCHOLOGY, BIOSTATISTICS. B.S, Alabama, 58, M.S, 60; Oklahoma, 65-68. Systs. analyst res. comput, U.S. Steel Corp, 60-63; dir. opers, med. center, Alabama, 63-64, mgr. ED. COMPUT, 64-65; SCH. MED, OKLAHOMA, 66-67, ASST. DIR, 67- Sig.C, U.S.A, 54-56. Computing; learning. Publ: General principles of computer systems, Clin. Pharmacol. & Therapeut, 65; Development of CAI in medical center environment, J. Med. Ed, 67; Computer-assisted instruction at the University of Oklahoma Medical Center, Proc. Conf. Comput-Assisted Instr. Med. Ed, 2/68. Address: 800 N.E. 13th St, Oklahoma City, Okla. 73069.

HARLEY, DR. G(EORGE) W(AY), Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 66.

HARLEY, PROF. HARRISON L(eROY), Psychol, see 10th ed, Soc. & Behav. Vols.

HARLEY, PROF. J(OHN) EUGENE, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

HARLEY, PROF. WILLARD, SR, b. Pa, Oct. 8, 13; m. 38; c. 3. PSYCHOLOGY. M.A, Pennsylvania, 39; Southern California, 46-50. From assoc.

prof. to PROF. PSYCHOL. & DIR. TESTING & COUNSELING, WESTMONT COL, 45- Psychol. Asn; Am. Sci. Affiliation. Counseling; mental hygiene; learning. Address: 955 La Paz St, Santa Barbara, Calif. 93103.

HARLEY, DR. WILLARD FERRIS, JR, b. Philadelphia, Pa, Sept. 6, 41; m. 62; c. 2. PSYCHOLOGY. B.A, Westmont Col, 62; Ph.D.(psychol), California, Santa Barbara, 67. Lectr. PSYCHOL, California, Riverside, 67-68; ASST. PROF, WESTMONT COL, 68- Am. Sci. Affiliation; Psychol. Asn. Influence of motivation on decision making and organizing processes in human learning. Publ: Monetary incentive in paired-associate learning and its effect on learning strategies, Univ. Microfilms, 67; The effect of monetary incentive on paired-associate learning using a differential method, 6/65 & The influence of perceptual organizing responses on recall, 6/68, Psychonomic Sci. Address: 300 Valdez Ave, Goleta, Calif. 93017.

HARLOW, PROF. HARRY F, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

HARLOW, DR. MARGARET K(UENNE), b. St. Louis, Mo, Aug. 29, 18; m. 48; c. 2. PSYCHOLOGY. A.B, Washington (St. Louis), 39, A.M, 40; Ph.D, Iowa, 44. Clin. psychologist, West. State Psychiat. Inst, Pa, 44-45; instr. child psychol, child welfare inst, Minnesota, 45-46; asst. prof. psychol, Wisconsin, 46-49; managing ed. pubs, Am. Psychol. Asn, 50-51; PROJ. ASSOC, PRIMATE RES. CENTER, WISCONSIN, MADISON, 61-, LECTR. ED. PSYCHOL, 65- Asst. ed, J. Comp. & Physiol. Psychol, 51-62. Psychol. Asn; Psychonomic Soc; Soc. Res. Child Develop. Child psychology; learning; primate psychology. Publ: Experimental investigation of the relation of language to transposition behavior in young children, co-auth, Learning motivated by a manipulation drive, J. Exp. Psychol. & Performance of infant rhesus monkeys on discrimination learning, delayed response and discrimination learning set, J. Comp. & Physiol. Psychol. Address: 2005 Jefferson St, Madison, Wis. 53711.

HARLOW, DR. REX (FRANCIS), b. Winfield, Mo, June 19, 92; m. 20; c. 3. SOCIOLOGY, PUBLIC RELATIONS. B.S, Cent. State Teachers Col, Okla, 34; A.M, Texas, 35; Ed.D, Stanford, 37. Asst. prof. ed, Stanford, 37-38, assoc. prof, 38-40, soc. sci. & pub. rels, 40-44, dir. sch-press rels. invest, 38-39, farm-city rels. invest, 50-51; PRES, PUB. RELS. INST. OF WEST, 44- Founder & ed, Pub. Rels. J, 45-47; ed. & publisher, Soc. Sci. Reporter, 53- Dir, 18th Annual Soc. Sci. Seminar Pub. Rels. Leaders, Palo Alto, Calif, 68. U.S.A, 18-28, Maj. Social Health Asn. Psychology; anthropology. Publ: The daily newspaper and higher education; Social science in public relations; Minority group problems. Address: 850 Webster St, Suite 600, Palo Alto, Calif. 94301.

HARLOW, DR. ROBERT G, b. Lowell, Mass, June 2, 27; m. 57; c. 2. CLINICAL PSYCHOLOGY. B.A, Harvard, 49; Ph.D.(psychol), Clark, 56. Chief psychologist, Cambridge Guid. Center, Mass, 55-56; supv. psychologist, East. Pa. Psychiat. Inst, 56-57; sr. instr. psychiat, sch. med. & dent, Rochester, 57-62, asst. prof, 62-63; dir, Lochland Sch, N.Y, 63-64; vis. prof, inst. child develop, MINNESOTA, 64-65, LECTR. PSYCHOL. & CONSULT, INST. CHILD DEVELOP, 65- Supv. psychologist, Strong Mem. Hosp, Rochester, N.Y, 57-63; private practice, 64- U.S.A.A.F, 44-47. Psychol. Asn; fel. Orthopsychiat. Asn. Psychoanalytic theory and therapy; developmental psychology. Address: 2530 W. Lake of Isles Blvd, Minneapolis, Minn. 55405.

HARMAN, HARRY H(ORACE), b. Vilna, Poland, June 5, 13; nat; m. 35; c. 2. STATISTICS, PSYCHOMETRICS. S.B, Chicago, 34, S.M, 36. Asst, ed. dept, Chicago, 35-39, res. assoc, 39-41; supvr. res. & statist, Ill. Dept. Pub. Welfare, U.S. Employ. Serv, 46; verification statistician, U.S. Bur. Employ. Security, Wash, D.C, 47; res. assoc, Nat. Res. Coun, 47; chief statist. res, personnel res. br, Adj. Gen. off, U.S. Dept. Army, 48-53; soc. scientist & head prod, Rand Corp. & Syst. Develop. Corp, 53-59, mgr. systs. simulation res. lab, Syst. Develop. Corp, 59-66; DIR. OFF. COMPUT. SCI, ED. TESTING SERV, 66- Consult, Nat. Res. Coun, 49-50. Statist. Asn; Psychomet. Soc.(pres. elect, 67-68); Opers. Res. Soc; Psychol. Asn; Asn. Comput. Mach; Soc. Multivariate & Exp. Psychol. Factor analysis; psychological statistics; computer sciences; system analysis in education. Publ: Modern factor analysis; Simulation: a survey, Proc. West. Joint Comput. Conf; The computer as a research instrument in the behavioral sciences, Proc. Tri-Serv. Conf. Selection Res. Address: 63 Caldwell Dr, Princeton, N.J. 08540.

HARMATZ, DR. MORTON G(ERALD), b. New York, N.Y, Mar. 25, 39; m. 60. PSYCHOLOGY. B.A, Ohio State, 60; M.S, Washington (Seattle), 62, Ph.D. (psychol), 63. Res. asst. psychol, Washington (Seattle), 60-63; Nat. Inst. Ment. Health fel. med. psychol, med. sch, Oregon, 63-64; ASST. PROF. PSYCHOL, MASSACHUSETTS, 64- Consult, VISTA, Off. Econ. Opportunity, 65- Psychol. Asn. Research on behavior modification techniques, experimental psychopathology and the behavioral analysis of interpersonal relationships. Publ: Co-auth, Sex differences and experimental conditions in serial learning, 65, Test anxiety and experimental conditions, 65 & auth, Verbal conditioning and personality change, 67, J. Personality & Soc. Psychol. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01003.

HARMON, DR. ELMER M(EREDITH), b. Des Moines, Iowa, Nov. 19, 27; m. 49; c. 3. ECONOMICS, STATISTICS. A.B, Harvard, 50; Mendelsohn fel, Columbia, 54-55, Ph.D.(econ), 56. Instr. econ. & finance, City Col. New York, 55-57; secy. res. coun, Am. Bankers Asn, 57-59; V.PRES. & TREAS, SECURITIES INVESTMENT DEPT. & ECON. & STATIST. DEPT, BOWERY SAVINGS BANK, 59- U.S.A.A.F, 45-47. Econ. Asn; Statist. Asn; Finance Asn. Publ: Commodity reserve currency. Address: Bowery Savings Bank, 110 E. 42nd St, New York, N.Y. 10017.

HARMON, DR. LINDSEY R(ICHARD), b. Spokane, Wash, Mar. 22, 14; m. 37; c. 4. PERSONNEL PSYCHOLOGY. B.A, Minnesota, 35, M.S, 38, Ph.D.(psychol), 52. Psychologist, Am. Red Cross, Mo, 37-41; from asst. to instr. psychol, Minnesota, 41-43; psychologist, Vet. Admin, 43-49; res. psychologist, Adj. Gen's. Off, U.S. Army, 50-54; DIR. RES, OFF. SCI. PERSONNEL, NAT. ACAD. SCIS, 54- Psychol. Asn. Selection of scientific personnel; high level manpower research; programmed learning; career patterns of doctorate holders; human resources. Publ: Profiles of Ph.D.'s in the sciences, 65, High school ability patterns: a backward look from the doctorate, 65 & Fourteen years of fellowship selection research, 66, Nat. Acad. Sci. Address: 6105 22nd St. N, Arlington, Va. 22205.

HARMON, PROF. M(ONT) JUDD, b. Tremonton, Utah, Aug. 7, 17; m. 36; c. 2. POLITICAL SCIENCE. B.S, Utah State Agr. Col, 48; M.S, Wisconsin, 50, fel, 51, Ph.D, 53. Asst. prof. POLIT. SCI, UTAH STATE, 51-56, assoc. prof, 56-61, PROF, 61-, HEAD DEPT, 64-, faculty honor lectr, 64. U.S.N, 44-46. Polit. Sci. Asn. American and European political thought. Publ: Political thought: from Plato to the present, McGraw, 64; co-auth, Dictionary of political science, Philos. Library, 64; auth, The search for consensus, Utah State Univ, 65. Address: 320 Lauralin Dr, Logan, Utah 84321.

HARMS, DR. ERNEST, b. Alsfeld, Germany, Sept. 12, 95; nat; m. CLINICAL PSYCHOLOGY. Ph.D.(psychol), Würzberg, 19; Paris, 21-23; London, 24-26; fel, Harvard & Duke, 27-28. Dir, Int. Voelkerpsychol. Inst, 29-34; adv, U.S. Govt, 37-38; dir. child guid. clin, St. Vincent Hosp, New York, 44-47; Beth David Hosp, 47-51; private practice, 51-; clin. psychologist, Grant Cent. Hosp, 54-59; Brooklyn Clin, 61-62; psychotherapist, Creedmoor State Hosp, L.I, 60-63; counsr, N.Y. State Div. Voc. Rehab, 65- Ed, Nervous Child & J. Child Psychiat, 42-58; Int. Series Monogr. Child Psychiat, 61-65; Adolescence, 66- Fel. AAAS; Psychol. Asn; Coun. Except. Children; affil. fel. Royal Soc. Med. Abnormal and social psychology. Publ: Ed, Drug addiction of youth, Pergamon, 65; auth, Origins of modern psychiatry, C.C. Thomas, 67; ed, Pathogenesis of mental and nervous diseases, Libra, 68. Address: 158 E. 95th St, New York, N.Y. 10028.

HARMS, PROF. LOUIS (HENRY) T(HEODORE), b. Can, Sept. 6, 16; nat; m. 42; c. 2. ECONOMICS. B.S, Temple, 39, M.Ed, 40; Ph.D, Pennsylvania, 55. Asst. statistician, Girard Trust Co, Pa, 40-42, 45-46; from instr. to PROF. ECON. & ASSOC. DEAN SCH. BUS, TEMPLE, 46- Grants, Penjerdel Plan for manpower, 61, Ford Found. fel. math, 62, Area Redevelop. Admin. fel. & Pa. manpower projection, 63, U.S. Dept. Labor manpower proj, 64-66 & manpower res. study, 66-69. Mem. exec. cmt, Asn. Univs. Bur. Bus. & Econ. Res, 65. U.S.A.A.F, 42-45. Econ. Asn; Regional Sci. Asn. Economic theory and development; regional analysis. Publ: Economic development; co-auth, Case study: manpower projection, U.S. Dept. Labor & Manpower in Pennsylvania, Pa. Dept. Community Affairs, 67. Address: School of Business Administration, Speakman Hall, Temple University, Philadelphia, Pa. 19122.

HARMSTON, PROF. FLOYD K(ENNETH), b. Roosevelt, Utah, Sept. 22, 17; m. 41; c. 4. ECONOMICS, STATISTICS. B.S, Utah State, 40; M.S, Wyoming, 55; Ph.D.(econ), Missouri, Columbia, 66. Critical analyst, census bur, U.S. Dept. Commerce, 40-42; anal. statistician, mkt. serv, U.S. Dept. Agr, 42-43, 45-50; res. assoc. econ. anal, col. commerce & indust, Wyoming, 50-55, dir. div. bus. & econ. res, 55-65; PROF. ECON, BUS. & PUB. ADMIN. SCH, MISSOURI, COLUMBIA, 66-, PROG. DIR, RES. CENTER, 65- Consult, Northwestern R.R. Co; Sperry & Hutchinson Co; Sperry Rand Corp. U.S.A.A.F, 43-46, Sgt. Mkt. Asn; Econ. Asn. Travel market analysis; economic development; input-output analyses. Publ: Co-auth, Application of an input-output framework to a community economic system, Univ. Missouri, 67 & The interindustry structure of the Missouri economy, Res. Center, Univ. Missouri, 67; Study of Teton County. Address: School of Business & Public Administration, University of Missouri, Columbia, Mo. 65201.

HARMSWORTH, PROF. HARRY C(LAYTON), b. Aurora, Mo, May 4, 02; m. 25; c. 2. SOCIOLOGY. A.B, Colo. State Col, 28, A.M, 32; Ph.D, Southern California, 43. Asst. prof. SOCIOL, Tex. West. Col, 41-44; from assoc. prof. to prof. & chmn. dept, Idaho, 44-67; PROF, WINONA STATE COL, 67- Sociol. Asn. Population; family; alcohol. Publ: Survey of the alcohol and narcotics problem in Idaho; co-auth, Non-statutory causes of divorce; Human resources, relations and problems on the Fort Hall Indian reservation. Address: Dept. of Sociology, Winona State College, Winona, Minn. 55987.

HARNED, DR. LOUISE, b. Philadelphia, Pa, July 8, 28. POLITICAL SCIENCE. A.B, Bryn Mawr Col, 46; A.M, Yale, 52, Ph.D, 57. Instr. polit. sci, Bryn Mawr Col, 57-58; Colby Col, 58-59; asst. prof, Gettysburg Col, 59-61; prog. secy, League Women Voters, U.S, 61-68; MANPOWER DEVELOP. SPECIALIST, MANPOWER ADMIN, U.S. DEPT. LABOR, 68- Polit. Sci. Asn. Political behavior; American national government and political parties. Publ: Authoritarian attitudes and party activity, Pub. Opinion Quart; Prospects for education and employment, 9/64 & Jobs and hard cash, 12/67 League Women Voters of U.S. Address: 1100 Sixth St. S.W, Washington, D.C. 20024.

HARNER, DR. MICHAEL JAMES, b. Washington, D.C, Apr. 27, 29; m. 66; c. 2. ANTHROPOLOGY. A.B, California, 53, univ. fel, 57-58; Doherty Found. grant, Ecuador, 56-57; Soc. Sci. Res. Coun. fel, 59; Ph.D.(anthrop), California, Berkeley, 63. Asst. anthrop, California, 55-56; asst. prof, Arizona State, 58-61; sr. mus. anthropologist, Lowie Mus. Anthrop, California, Berkeley, 61-63, asst. res. anthropologist, 63-66, asst. dir, 64-67, assoc. res. anthropologist, 66-67; vis. assoc. prof. ANTHROP, COLUMBIA, 66-68, ASSOC. PROF, 68- Assocs. Trop. Biogeog. grant Jivaro Indians, Ecuador, 64. Lectr, California, Berkeley, summers 62-64. Contrib. ed, Handbook of Latin Am. Studies, 60-62. Mem, Am. Mus. Natural Hist. exped. Peru, 60-61. Mem. Ecuadorian Inst. Anthrop. & Geog. AAAS; Anthrop. Asn; Ethnol. Soc; Soc. Am. Archaeol; Soc. Gen. Systs. Res; Soc. Sci. Study Relig; Latin Am. Studies Asn. Causality in socio-cultural evolution; ethnology of South America, particularly the Upper Amazon basin; the role of hallucinogens in shamanism, witchcraft and religion. Publ: Co-auth, Art of the northwest coast, Lowie Mus, Univ. California, 65; Jivaro Souls, Am. Anthropologist, 62; The sound of rushing water, Natural Hist, 6/68. Address: Dept. of Anthropology, Columbia University, New York, N.Y. 10027.

HARONIAN, DR. FRANK (JOHN, JR), b. Durham, N.C, Oct. 11, 22; m. 57; c. 2. PSYCHOLOGY. B.S, City Col. New York, 43, M.S.Ed, 49; Human Ecol. Fund grant, 61-63, Ph.D.(psychol); New Sch. Soc. Res, 63. Clin. psychologist, Ment. Hyg. Bur, N.J. State Hosp, Trenton, 51-56; sch. psychologist, N.J, 56-61; RES. SCIENTIST, BUR. RES. NEUROL. & PSYCHIAT, 64- U.S.A, 43-46, S/Sgt. Psychol. Asn; Soc. Sci. Study Relig; Acad. Relig. & Ment. Health.

Personality; constitutional psychology; religion; psychotherapy; hypnosis; psychosynthesis; community mental health programs. Publ: The ethical relevance of a psychotherapeutic technique, J. Relig. & Health, 4/67; co-auth, Fixed and mobile field independence: review of studies relevant to Werner's dimension, Psychol. Reports, 67; Some intellectual correlates of physique: a review and a study, J. Psychol. Studies, 67. Address: 2807 Princeton Pike, Trenton, N.J. 08638.

HAROOTUNIAN, DR. BERJ, b. Pawtucket, R.I, Nov. 19, 28; m. 52; c. 3. EDUCATIONAL PSYCHOLOGY & MEASUREMENT. B.S, Pennsylvania, 50, M.S, 51, Ph.D.(ed. measurements), 59. Teacher, pub. schs, Pa, 51-53; dean students, pub. schs, Pa, 53-57; lectr. ed. measurement, Pennsylvania, 57-58; asst. prof. ed. psychol, Delaware, 58-61, assoc. prof. ed. measurement, 61-67, asst. dean grad. sch, 65-66; ASSOC. PROF. ED. PSYCHOL, SYRACUSE, 67- Lectr, Pennsylvania, 60-61; participant, Stanford Conf. Learning & Ed. Process, summer, 64. Consult, Coop. Res. Proj, Pennsylvania, 59-60; pub. schs, Md, 65-66; Manhattenville Col, 65-66. Psychol. Asn; Psychomet. Soc; Ed. Res. Asn; Statist. Asn. Educational and psychological measurement; educational psychology; problem solving abilities and decision making processes of children and teachers; identification and manipulation of social-psychological variables relevant to instruction. Publ: Co-auth, Differences between good and poor problem solvers, Univ. Pennsylvania, 59; Relationship of certain selected variables to problem solving ability, J. Ed. Psychol, 60; Structure of teaching, Sci. Res. Assocs, 67. Address: Teacher Education Center, Syracuse University, 423 Huntington Hall, Syracuse, N.Y. 13210.

HARP, PROF. ELMER, JR, b. Cleveland, Ohio, Apr. 13, 13; m. 39; c. 4. ARCHAEOLOGY, ANTHROPOLOGY. B.S, Harvard, 38, M.A, 47, Ph.D. (anthrop), 53. Asst. prof. ANTHROP, DARTMOUTH COL, 51-57, PROF, 57-, CHMN. DEPT, 60-, DIR. MUS, 61-, curator, 47-52. Fulbright res. fel, Denmark, 59-60. U.S.N.R, 43-46, Lt.(jg). Fel. Anthrop. Asn; Soc. Archaeol; fel. Arctic Inst. N.Am. Archaeology of Yukon Territory, Northwest Territories, Labrador and Newfoundland. Publ: Prehistory in the Dismal Lake area, N.W.T, Canada & Archaeology of the Lower and Middle Thelon, Northwest Territories, Tech. Series, Arctic Inst. N.Am; Cultural affinities of the Newfoundland Dorset Eskimo, Bull. 200, Nat. Mus. Can, 64. Address: 28 Maple St, P.O. Box 856, Hanover, N.H. 03755.

HARPER, DR. A(RTHUR) EDWIN, JR, b. Lahore, Pakistan, Jan. 3, 19; U.S. citizen; m. 48; c. 4. PSYCHOLOGY. A.B, Princeton, 41; M.A, Iowa, 42; Ph.D.(ed. measurement, guid), Columbia, 49. Psychologist psychomet, neuropsychiat. clin, Greenwich Hosp, Conn, 45-47; Psychiat. Serv. in Community, 47-48; MISSIONARY, UNITED PRESBY. CHURCH, 48-; DIR. NORTH INDIA SYNOD TESTING & COUNSELING PROG. & BUR. ED. RES, EWING CHRISTIAN COL, INDIA, 57-, head dept. psychol. & ed, 48-53. Instr, Brothers Col, Drew, 46; jr. counsr, Voc. Counseling Serv, Conn, 47-48; vis. assoc, Ed. Testing Serv, N.J, 53-54; head psychomet. unit, Indian Statist. Inst, 54-57. Consult, Ed. Testing Serv, N.J, India, 61- Mem, exec. cmt, U.S. Ed. Found, India, 59 & 62, 67 & 68; Indian Sci. Cong. Asn. Psychol. Asn; Psychomet. Soc; Indian Psychol. Asn. Vocational and educational guidance; educational and psychological measurement, especially aptitude tests and examination methods and reform. Publ: Differential patterns in schizophrenia on the Wechsler-Bellevue intelligence test; co-auth, Note on the validity of a medical college selection program, Sankhya Indian J. Statist; auth, Ninety marking ten: a study of examinations, Indian Ed. Rev, 1/67. Address: Bureau of Educational Research, Ewing Christian College, Allahabad, U.P, India.

HARPER, DR. CHARLES P(RICE), b. Upper Tract, W.Va, Nov. 12, 97. POLITICAL SCIENCE. A.B, West Virginia, 23, A.M, 32; Ph.D, Hopkins, 37. Prin, high schs, W.Va, 23-33; dist. dir, Nat. Youth Admin, 35-36; instr, Glenville State Col, 36-42; supvr, State Occup. Info. & Guid, 42-46; from assoc. prof. to prof. polit. sci. & dir. Americanization prog, Marshall, 46-67; RETIRED. Chmn. State Historic Cmn, W.Va, 61- State highway transportation in West Virginia. Publ: Administration of the Civilian Conservation Corps; West Virginia, W.Va. Blue Book; Historic and prehistoric sites, tri-state area, W.Va. Hist. Mag. Address: 203 W. Ninth Ave, Huntington, W.Va. 25701.

HARPER, PROF. DEAN, b. Ames, Iowa, Jan. 5, 29; m. 58; c. 4. SOCIOLOGY. B.S, Iowa State Col, 51, M.S, 53; Lydia Roberts fel, Columbia, 58-60, Ph.D. 61. Instr. math, Iowa State, 51-52, sociol, 52-53; ASST. PROF. PSYCHIAT, ROCHESTER, 64-, ASSOC. PROF. SOCIOL, 65-, CHMN. DEPT, 67-, asst. prof, 58-65. U.S. Pub. Health Serv. fel, 63-64. Consult, N.Y. State Dept. Ed, 65- U.S.A, 53-55. AAAS; Sociol. Asn; Statist. Asn. Application of mathematics and statistics to sociology; sociology of mental illness. Publ: Co-auth, Work behavior in a service industry, Soc. Forces, 12/63; auth, Misclassification in epidemiological surveys, Am. J. Pub. Health, 11-64; Aftermath of a long hot summer, Trans-Action, 8/65. Address: Dept. of Sociology, University of Rochester, Rochester, N.Y. 14627.

HARPER, DR. DEE WOOD, JR, b. Dothan, Ala, Aug. 15, 40. SOCIOLOGY. B.A, George Peabody Col, 62; M.A, La. State, 65, Ph.D.(sociol), 67. ASST. PROF. SOCIOL, MISS. STATE, 67- Sociol. Asn. Sociology of education and aging; sociological theory. Address: Dept. of Sociology, Drawer C, Mississippi State University, State College, Miss. 39762.

HARPER, PROF. DONALD V(ICTOR), b. Chicago, Ill, Mar. 27, 27; m. 52; c. 3. TRANSPORTATION. B.S, Illinois, 50, Relm Found. fel, 55-56, Ph.D, 57. Lectr. TRANSPORTATION, SCH. BUS. ADMIN, MINNESOTA, MINNEAPOLIS, 56, asst. prof, 56-59, assoc. prof, 59-65, PROF, 65- Practitioner, Interstate Commerce Cmn, 65- Private bus. consult, 57- U.S.N, 45-46. Econ. Asn; Mkt. Asn; Transportation Res. Forum. Transportation, especially physical distribution management, traffic management, regulation of transportation, pricing in marketing and transportation. Publ: Economic regulation of the motor trucking industry by the states; Price policy and procedure, Harcourt, 66; Basic planning and the transportation function in small manufacturing firms, Small Bus. Admin. Mgt. Res.Report. Address: School of Business Administration, University of Minnesota, Minneapolis, Minn. 55455.

HARPER, DR. EDWARD O'NEIL, Med, Psychiat, see 11th ed. Phys. & Biol. Vols.

HARPER, PROF. ERNEST B(OULDIN), Soc. Work, see 10th ed, Soc. & Behav. Vols.

HARPER, DR. F(LOYD) A(RTHUR), b. Middleville, Mich, Feb. 7, 05; m. 30; c. 4. ECONOMICS. B.S, Mich. State Col, 26; Ph.D.(econ), Cornell, 32. Asst. & instr, Cornell, 28-31, instr, 31-34, asst. prof. mkt, 34-35, prof, 35-46; economist, Found. Econ. Ed, 46-58; dir. res, William Volker Fund, 58-62; vis. lectr, Wabash Col, 62-63; exec. v.pres, INST. HUMANE STUDIES, INC, 63-66, PRES, 66- Field agent, Fed. Farm Bd, 30-31; bus. analyst, bank coops, Farm Credit Admin, 34; acting head dept. agr. econ, Puerto Rico, 37. Fel. AAAS; Econ. Asn; fel. Int. Inst. Arts & Letters. Philosophy of science; science of society; political science; economic education. Publ: Liberty: a path to its recovery, 49; Morals and liberty, 65; Why wages rise, 66. Address: Institute for Humane Studies, Inc, Box 727, Menlo Park, Calif. 94025.

HARPER, DR. FLOYD H(ENRY), b. Raleigh, N.C. TRANSPORTATION ECONOMICS, STATISTICS. B.S, Maryland, 24, Ph.D, 28; M.S, North Carolina, 25, M.Agr, 27. Mem, bur. soc. & econ. res, N.C. State Col, 24-26, asst. instr. econ. & statist, 25-26; commodity prod. & mkt. invests, N.C, 26; Tariff Cmn. rep, Mex, Cuba, Isle of Pines, 27-28; tariff writing, Latin Am. trade & inter-Am. rels, U.S. Congress, 28-30; economist, U.S. Dept. Agr, 30-41; ECON. ADV, Off. Prod. Mgt. & War Prod. Bd, Qm. Corps, 41-44; U.S. DEPT. COMMERCE, 44- Dir. Land-Value Surv, N.C, 25. Water resources; transportation; correlation and variance analysis; natural resources. Publ: Elements of practical statistics; Variance analysis in paired and replicate series. Address: 303 Summers Dr, Alexandria, Va. 22301.

HARPER, DR. FRANK B(ERRYMAN) W(ILSON), b. Greenock, Scotland, Mar. 29, 27; U.S. citizen; m. 56; c. 2. PSYCHOLOGY. M.A, Glasgow, 52; Ph.D. (psychol), California, Berkeley, 61. Voc. counsr, City Edinburgh, Scotland, 52-54; clin. psychologist, Prov. Alta, Can, 54-56; asst. prof. DEVELOP. PSYCHOL, Minnesota, 61-65; ASSOC. PROF, WESTERN ONTARIO, 65- R.A.F, 45-48. Psychol. Asn; Soc. Res. Child Develop. Personality development in children and adolescents; problems of adjustment at puberty; social-peer influences on children and adolescents. Publ: The California psychological inventory as a predictor of yielding behavior, 64 & co-auth, The sociometric composition of the group as a determinant of yielding, 64, J. Psychol; co-auth, Young children's yielding to false adult judgments, Child Develop, 65. Address: Althouse College, University of Western Ontario, London, Ont, Can.

HARPER, PROF. HEBER R(EECE), II, b. Pittsburgh, Pa, June 3, 20. POLITICAL SCIENCE. B.S, Haverford Col, 42; M.A, Michigan, 48. Instr. POLIT. SCI, Haverford Col, 51-52; Wells Col, 53-54; asst. prof, DICKINSON COL, 54-61, ASSOC. PROF, 61- U.S.A, 42-46. Polit. Sci. Asn. American government; comparative government; international politics. Address: Dept. of Political Science, Dickinson College, Carlisle, Pa. 17013.

HARPER, PROF. ROBERT A(LEXANDER), b. Chicago, Ill, Apr. 16, 24; m. 44; c. 3. GEOGRAPHY. Ph.B, Chicago, 46, S.B, 47, S.M, 48, Ph.D.(geog), 50. Res. assoc. GEOG, Chicago, 49; asst. prof, Southern Illinois, 50-54, assoc. prof, 54-59, PROF. & CHMN. DEPT, 59-67; MARYLAND, 67- Vis. lectr, Manchester, 61-62. U.S.A.F, 43-45, Res, 45-50, 2nd Lt. Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic geography, especially urban and manufacturing; geographic writing. Publ: Co-auth, Learning about Latin America, Silver-Burdett, 62, 67; co-ed, Metropolis on the move, Wiley, 67. Address: 13705 Creekside Dr, Silver Spring, Md. 20904.

HARPER, DR. ROBERT A(LLAN), b. Dayton, Ohio, Apr. 25, 15. PSYCHOLOGY. A.B, Ohio State, 38, A.M, 39, Ph.D, 42. Instr. sociol, Kent State, 42-43; assoc. prof, Wagner Col, 43-45; asst. prof. & dir. marriage counseling clin, Ohio State, 46-50; chmn. family life dept. & dir. marriage counseling serv, Merrill-Palmer Sch, 50-53; MARRIAGE COUNSELOR & PSYCHOTHERAPIST, 53- Econ. analyst, War Manpower Cmn, 43; psychiat. soc. worker, U.S. Dept. Army, 45-46. Psychol. Asn; Asn. Marriage Counsr. (secy, 54-58, pres, 60-62); Group Psychother. Asn; Acad. Psychother.(pres, 61-63); Soc. Sci. Study Sex; Soc. Clin. & Exp. Hypnosis; Int. Coun. Psychol. Psychotherapy; sex education. Publ: Creative marriage; Psychoanalysis and psythotherapy: 36 systems; Guide to rational living. Address: 3000 Connecticut Ave. N.W, Washington, D.C. 20008.

HARPER, PROF. ROBERT S(TEVENS), b. Ithaca, N.Y, Feb. 4, 22; m. 44; c. 2. PSYCHOLOGY. B.A. & M.S, Oklahoma, 43, Fund Adv. Ed. fel, 51-52, Ph.D. (psychol), 52; M.A, Harvard, 49. From instr. to PROF. PSYCHOL, KNOX COL.(ILL), 49-, col. exam, 50-56, registr, 57-61. U.S.A, 44-46. Psychol. Asn; Psychonomic Soc. Perception; history of psychology. Publ: Introductory psychology; The first psychological laboratory, Isis; Perceptual modification of colored figures, Am. J. Psychol. Address: 1071 Florence Ave, Galesburg, Ill. 61401.

HARPER, DR. ROLAND M(c MILLAN), Bot, Geog, see 11th ed, Phys. & Biol. Vols.

HARR, DR. JOHN ENSOR, b. Chicago, Ill, Aug. 1, 26; m. 47; c. 5. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Beloit Col, 49; M.A, Chicago, 60; Fund Adult Ed. fel, California, Berkeley, 60, Ph.D.(polit. sci), 67. Reporter, Chicago bur, United Press, 49-51; info. officer, U.S. Info. Agency, Tel Aviv, 51-54; acct. exec, Collins Orgn, Ill, 54-57; dir. pub. rels, Univ. Col, Chicago, 57-59; dir. commun. progs, exten, California, 59-61; res. assoc, Cmt. For. Affairs Personnel, 61-63; dir. diplomacy & mgt, off. mgt. planning, U.S. Dept. State, 63-67; PHILANTHROPY ASSOC, JOHN D. ROCKEFELLER, III, 67- U.S.A.A.F, 44-45. Soc. Pub. Admin; Polit. Sci. Asn. Diplomacy; management; organizational behavior; urbanology. Publ: The professional diplomat, Princeton, 69; The anatomy of the foreign service, Carnegie Endowment Int. Peace, 65; co-auth, PPBS visits foreign affairs, Inter-Univ. Case Prog, 68. Address: 35 Highland Ave, Glen Ridge, N.J. 07028.

HARRELL, DR. C(HARLES) A(DAIR), b. Wakefield, Va, Aug. 1, 93; m. 28; c. 1. PUBLIC ADMINISTRATION. A.B, Randolph Macon Col, 14, LL.D, 55; M.A, Columbia, 20; C.E, Cincinnati, 24, LL.D, 63; M.S, Syracuse, 27. Exec. asst. city mgr, Cincinnati, Ohio, 28-29; city mgr, Portsmouth, 30-31; Binghamton, N.Y, 32-37; Schenectady, 37-46; Norfolk, Va, 46-51; San Antonio, Tex, 52-53; chmn. dept. indust. econ, Southwest Res. Inst, 53-54; city mgr, Cincinnati, 54-63; VIS. PROF. MUNIC. GOVT, CINCINNATI, 63- Consult, Nat. Defense Cmn, 41; War Prod. Bd, 42. Del, Inter-Am. Cong. Municipalities, Cuba, 38, Panama, 56; del. & mem. coun, Int. Union Local Authorities, Germany, 59. U.S.A, 18-19, Res, 28-29, 1st Lt. Econ. Asn; Soc. Adv. Mgt; Int. City Mgr. Asn; Soc. Civil Eng; Govt. Res. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. Publ: Co-auth, Fiscal problems of city school administration, New York State. Address: Dept. of Government, University of Cincinnati, Cincinnati, Ohio 45221.

HARRELL, PROF. CLEON, b. Princess Anne, Va, May 9, 23. ECONOMICS. B.S, Virginia, 44, M.A, 46. Instr. statist, Virginia, 47-49; res. assoc. agr. econ, Chicago, 50-51; asst. prof. ECON, N.C. STATE, 51-56, ASSOC. PROF, 56- Lectr, Inst. Textile Tech, Va, 48-49. Econ. Asn; Statist. Asn; Economet. Soc; Inst. Mgt. Sci. Econometrics; statistics; mathematical economics. Publ: Intuitive probability and economic behavior, Va. J. Sci; co-auth, Inventories in the meat-packing industry & Extensions of benefit-cost analysis, Am. Econ. Rev. Address: Dept. of Economics, North Carolina State University, Raleigh, N.C. 27607.

HARRELL, PROF. LESTER EDWARD, JR, b. Dallas, Tex, Feb. 21, 21; m. 45; c. 3. DEVELOPMENTAL PSYCHOLOGY. B.S, Baylor, 42; M.A, Texas, 47; Ph.D.(psychol), Minnesota, 56. Asst. prof. psychol, Trinity (Tex), 52-55; dir. student counseling center, Baylor, 55-60, assoc. prof. psychol, 55-61, dir. off. inst. res, 60-61; prog. exam, Tex. Cmn. Higher Ed, 61-62, dir, 62-65; acting cmnr. HIGHER ED, coord. bd, Tex. Col. & Univ. Syst, 65-66, asst. cmnr, 66-67; VIS. PROF, TEXAS, AUSTIN, 67- Res. fel, South. Regional Ed. Bd, 59-60. U.S.N.R, 42-46. AAAS; Psychol. Asn; Soc. Res. Child Develop; Am. Acad. Arts & Sci. Language and personality development in children; institutions of higher education; development and organization of statewide higher education; higher education and government relations; higher education administration. Address: Room 315, Sutton Hall, College of Education, University of Texas, Austin, Tex. 78712.

HARRELL, PROF. RUTH F, b. Americus, Ga, Apr. 19, 00; m. 28; c. 1. PSYCHOLOGY. B.S, Wesleyan Col, 20; M.A, Columbia, 24, Ph.D.(ed), 42. Practicing psychologist, 36-46; res. assoc, teachers col, Columbia, 45-54; assoc. prof. PSYCHOL, Col. William & Mary, 55-57; PROF, OLD DOM. COL, 57- AAAS; Psychol. Asn. Learning process in human beings as related to nutrition factors; re-education of aphasic patients; growth of oysters and of chicks. Publ: Effect of added thiamine on learning; Further effects of added thiamine on learning and other processes; co-auth, Effect of mothers diets on intelligence of offspring. Address: 6411 Powhatan Ave, Norfolk, Va. 23508.

HARRELL, PROF. THOMAS W(ILLARD), b. West Point, Ga, Sept. 8, 11; m. 41; c. 2. APPLIED PSYCHOLOGY. A.B, Georgia, 32, M.S, 33; Ph.D. (psychol), Hopkins, 36. Asst. psychol, Hopkins, 33-36; instr, Illinois, 36-39, asst. prof, 39-40, assoc. prof, 45-52; PROF. APPL. PSYCHOL, GRAD. SCH. BUS, STANFORD, 52- With personnel res, Callaway Mills, Ga, 35; Bibb Mfg. Co, 36; res. assoc, Psychol. Corp, 36-49; fel, eng. exp. sta, Georgia, 37; Ford Found. faculty res. fel, 58-59. Res. consult, Roche, Williams & Cleary, 39-40; consult, U.S. Dept. Air Force, 48-49, 51-54; Standard Oil Co, Calif, 55-58; Klein Inst. Aptitude Testing, 55-67; Imp. Chem. Industs. Australia & N.Z, 65-67. Dipl, Am. Bd. Exam. Prfnl. Psychol, 49- U.S.A, 42-45, Lt. Col. Fel. Psychol. Asn. Nature of mechanical aptitude; validity of selection procedures for business management. Publ: Industrial psychology, Holt, 58; Managers performance and personality, South-Western Pub, 61; co-auth, The accounting process, McGraw, 63. Address: Graduate School of Business, Stanford University, Stanford, Calif. 94305.

HARRELL, DR. WILLIAM ASBURY, b. Americus, Ga, Apr. 21, 22; m. 47; c. 2. HISTORY, EDUCATION. B.A, Emory, 45, B.D, 48; M.A, Scarritt Col, 50; Ph.D.(hist), Florida, 64. Pastor, Methodist Church, Ga, 47-49; missionary, Brazil, 49-62; specialist ed. in west. hemisphere, U.S. Off. Ed, 64- Rector, Granbery Inst, Brazil, 56-62. U.S.M.C, 43-44. Latin Am. Studies Asn; Conf. Latin Am. Hist; Hist. Asn; Comp. Ed. Soc. Latin American area studies, especially the empirial period of Brazilian history, Brazilian education and Latin American education. Address: 6218 N. 35th St, Arlington, Va. 22213.

HARRIGAN, DR. ARTHUR W(ASHINGTON), b. Brooklyn, N.Y, Mar. 18, 19; m. 41; c. 2. ECONOMICS. B.S, N.Y. Univ, 42, M.B.A, 49, Ph.D, 59. Ed. Tel. & Tel. Age, 38-41; purchasing analyst, West. Elec. Co, 46-53; purchasing agent, Teletype Corp, 53-55, asst. supt. personnel & labor rels, 55-56; supt. col. rels. & personnel res, WEST. ELEC. CO, 56-60, mfg. opers, 60-61, comptroller purchasing & traffic div, NEW YORK, 61-64, comptroller, 64-65, corp. anal. dir, 66-68, V.PRES. FINANCE, 68- U.S.N, 41-46, Lt. Econ. Asn. Economic criteria of wage determination; mangerial economics. Address: 3 Buxton Rd, Chatham, N.J. 07928.

HARRIMAN, PROF. ARTHUR E(RNEST), b. Greensboro, N.C, May 7, 25; m. 52; c. 2. PSYCHOLOGY. A.B, Bucknell, 48; Sage fel, Cornell, 48-49, Dallenbach Mem. fel, 50-51, U.S. Pub. Health Serv. fel, 51-52, Ph.D.(psychol), 52. Asst. prof. PSYCHOL, Trinity (Tex), 52-54; from asst. prof. to assoc. prof, Franklin & Marshall Col, 54-60; prof. & chmn. dept, Ripon Col, 60-66; RES. PROF, OKLA. STATE, 66- Am. Psychol. Asn. vis. prof, 66-67. U.S.A, 43-46. Psychol. Asn; Animal Behavior Soc; Psychonomic Soc. Animal learning and motivation. Publ: Co-auth, Physiological tolerance for hypertonic saline in starlings, purple grackles, and herring gulls, 66 & auth, Laughing gulls offered saline in preference and survival tests, 67, Physiol. Zool; auth, Intakes of NaC1 by rats in extended two-bottle drinking preference tests, J. Psychol, 67. Address: Dept. of Psychology, Oklahoma State University, Stillwater, Okla. 74074.

HARRIMAN, DR. B(YRON) LYNN, b. Manchester, N.H, Mar. 30, 16; m. 42; c. 1. PSYCHOLOGY. B.A, New Hampshire, 38, M.Ed, 39; M.A, Pennsylvania, 41; Ph.D.(psychol), Pa. State, 56. Counsr, Phila. Vet. Center, Bd. Ed. & Temple, 46-50; asst. prof. psychol, Lebanon Valley Col, 50-53; counseling psychologist, Lebanon Vet. Admin. Hosp, Pa, 53-56; psychologist, Fed. Reformatory, Okla, 56-58; chief, psychol. serv, Fed. Correctional Instn, Colo, 58-63; Fed. Reformatory, Okla, 63-64; U.S. Pub. Health Serv. Hosp, Ky, 64-67; SCIENTIST DIR, NAT. INST. MENT. HEALTH CLIN. RES. CENTER, 67- Instr, med. center, Kentucky, 64- U.S.A, 42-46; U.S.P.H.S, 58-, Capt. Soc. Proj. Tech; Psychol. Asn; Asn. Correctional Psychol. Correctional psychology; group and individual psychotherapy; drug addiction. Publ: Influence of group-centered therapy and mental health films on attitudes of prisoners. Address: National Institute of Mental Health Clinical Research Center, P.O. Box 2000, Lexington, Ky. 40507.

HARRIMAN, PROF. PHILIP LAWRENCE, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 68.

HARRINGTON, DR. DAVID N(OBLES), b. Greenville, N.C, Oct. 26, 13; m. 41; c. 3. AGRICULTURAL ECONOMICS. B.S, Missouri, 51, M.S, 52; Iowa State, 52, Ph.D.(agr. econ), 62. Instr. agr. econ, Missouri, 52; res. assoc, Iowa State Col, 52-55; asst. prof, Missouri, 55-66; AGR. ECONOMIST, TENN. VALLEY AUTHORITY, 66- Agr. economist, Weitz-Hettelsatter Engrs, 62-65. U.S.A, 39-45, Sgt. Agr. Econ. Asn. Agricultural marketing and farm management statistics; agricultural resource development. Publ: Co-auth, Economic and engineering study of marketing facilities for grain and tuberous crops—Brazil, Weitz-Hettelsatter Engrs, 63; auth, Costs of storing reserve stocks of corn; Quality price study of wheat at the country elevator level. Address: 905 Dearborn, Muscle Shoals, Ala. 35660.

HARRINGTON, DR. GORDON M(acKENZIE), Psychol, see 11th ed, Phys. & Biol. Vols.

HARRINGTON, DR. M(ARK) R(AYMOND), b. Ann Arbor, Mich, July 6, 82; m. 27, 49; c. 1. ANTHROPOLOGY. B.S, Columbia, 07, A.M, 08; L.H.D, Occidental Col, 56. Field ethnologist, Heye Mus, 08-10; asst. curator in charge Am. sect, mus, Pennsylvania, 11-14; archaeologist & ethnologist, Mus. of Am. Indian, Heye Found, 15-17, 19-28; dir. res, Southwest Mus, 28-30, curator, 30-64; RETIRED. Res. assoc, Carnegie Inst, 31-60. Consult, Nat. Park Serv, 36-43. In charge expeds, U.S, Can, Mex. & Cuba. U.S.A. 17-19, Lt. AAAS; fel. Soc. Am. Archaeol.(v.pres, 35). Ethnography of Sauk-and-Fox, Iroquois and Lenape Indians; archaeology of Cuba and United States. Publ: Ozark bluff-dwellers; Dickon among the Lenapes: The Iroquois trail. Address: 11039 Memory Park Ave, Mission Hills, Calif. 91340.

HARRINGTON, PROF. ROBERT W(ARD), b. 14; m. 43; c. 2. ECONOMICS, PHILOSOPHY. B.A, Brooklyn Col, 48; M.A, Columbia, 49. From instr. to ASSOC. PROF. SOC. SCI, NEW YORK COMMUNITY COL, 49- Lectr, Brooklyn Col, 49-52; Ford Found. fel, Princeton, 61-62. U.S.A, 41-46, Capt. Econ. Asn; Philos. Asn. Price policy and competition; moral philosophy. Publ: New York City community college program of higher education, High Point Mag. Address: 169-01 32nd Ave, Flushing, N.Y. 11358.

HARRINGTON, DR. ROBERT WILLARD, b. Vernon, Mich, Nov. 30, 24; m. 53; c. 3. PSYCHOLOGY. B.A, Miami (Ohio), 48; M.A, Mich. State, 50, Ph.D. (clin. psychol), 53. Clin. psychologist, Vet. Admin. Hosp, Marion, Ind, 55-57; soc. scientist, SYST. DEVELOP. CORP, 57-59, head manual syst. training br, 59-60, sr. human factors scientist, 60-61, mgr. bio-med. systs. dept, 61-64, applns. develop. dept, 64-65, ASST. MGR. ADV. SYSTS. DIV, 65- U.S.N.R, 42-46, Ens. AAAS; Psychol. Asn; Human Factors Soc. Juvenile delinquency; thought processes; automatic data processing in biomedical science. Publ: Simulation and public health, 66; Patient data—a computer-based system, Hosp. Progress, 5/62; First hurdle in ADP: discovering its hospital potentials, Hosps. J. Am. Hosp. Asn, 64. Address: 504 Marquette St, Pacific Palisades, Calif. 90272.

HARRINGTON, DR. WELLS, Statist, see 10th ed, Soc. & Behav. Vols.

HARRIS, PROF. A(BRAM) L(INCOLN), Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

HARRIS, DR. ALBERT J(OSIAH), b. Chelsea, Mass, Aug. 13, 08; m. 30; c. 2. PSYCHOLOGY. A.B, Harvard, 28, fel, 29-30, A.M. & Ph.D.(psychol), 30. Instr. psychol, Purdue, 30-31; Simmons Col, 31-34; asst. psychologist, Worcester State Hosp, 34-35; from instr. psychol. to asst. prof. ed, City Col. New York, 35-49; assoc. prof. ed, Queens Col.(N.Y), 49-51, prof, 51-64, dir. ed. clin, 49-64; dir. off. res. & eval, div. teacher ed, City Univ. New York, 64-68; pres, Nat. Conf. Res. Eng, 68. Dipl. Am. Bd. Exam. Prfnl. Psychol. Civilian with U.S. Army. AAAS; fel. Psychol. Asn; fel. Orthopsychiat. Asn; Ed. Res. Asn. Reading disabilities. Publ: How to increase reading ability; Effective teaching of reading; sr. auth, Macmillan reading program, Macmillan, 65-68. Address: 345 E. Grand St, Mt. Vernon, N.Y. 10552.

HARRIS, DEAN A(RVIL) E(RNEST), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 64.

HARRIS, PROF. BERNARD, Math. Statist, see 11th ed, Phys. & Biol. Vols.

HARRIS, PROF. BRITTON, b. East Orange, N.J, June 7, 14; m. 40; c. 3. PLANNING. B.A, Wesleyan, 35; M.A, Chicago, 51. Planner, Chicago Housing Authority, 50; economist-planner, P.R. Planning Bd, 50-51; dir. econ. res, Econ. Develop. Admin, Govt. P.R, 51-54; lectr. city planning & proj. dir. inst. urban studies, PENNSYLVANIA, 54-62, assoc. prof. city planning, 62-64, PROF. CITY & REGIONAL PLANNING & RES. COORDINATOR INST. ENVIRON. STUDIES, 64- Chief econ. & finance sect, Pa-N.J. Transportation Study, 59-64. Mem. Delhi master planning team, Ford Found, 57-59. AAAS; Regional Sci. Asn.(pres, 66-67); Econ. Asn; Inst. Planners; Statist. Asn; Opers. Res. Soc. Planning and decision-making, especially quantitative method and mathematical models; relationship of design to analysis in social affairs and the use of computers in these areas. Publ: Inventing the future metropolis, Harvard-M.I.T. Press, (in press); Some problems in the theory of intra-urban location, Opers. Res, 9-10/61; The limits of science and

humanism in planning, J. Am. Inst. Planners, 9/67. Address: 114 W. Rittenhouse St, Philadelphia, Pa. 19144.

HARRIS, DR. CHARLES S(AMUEL), b. New York, N.Y, May 18, 37; m. 61; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Swarthmore Col, 59; Nat. Sci. Found. fels, Yale, 59-62, M.S, 61; Nat. Inst. Ment. Health fel, Harvard, 62-63, Ph.D.(exp. psychol), 63. Nat. Sci. Found. fel. PSYCHOL, Pennsylvania, 63-64, asst. prof, 64-66; MEM. TECH. STAFF, BELL TEL. LABS, 66- Psychonomic Soc. Human perception, especially visual proprioceptive and spatial perception, attention. Publ: Co-auth, Selective attention and coding in visual perception, J. Exp. Psychol, 63; auth, Perceptual adaption to inverted, reversed, and displaced vision, Psychol. Rev, 65; co-auth, Vision and touch, Sci. Am, 67. Address: Behavioral Research Lab, Bell Telephone Labs, Murray Hill, N.J. 07974.

HARRIS, PROF. CHARLES W, b. Auburn, Ala, Sept. 12, 28; m. 54; c. 2. POLITICAL SCIENCE. A.B, Morehouse Col, 49; M.A, Pennsylvania, 50; James Fund fel, Wisconsin, 56-57, Ph.D, 59; Hopkins, 65-66. Instr. hist. Tex. Col, 51-53; asst. prof. polit. sci. & hist, Tuskegee Inst, 55-57; assoc. prof. polit. sci, Grambling Col, 59-61; Coppin State Col, 61-64, prof, 64-66; assoc. dir. gen. mgt. training center, U.S. Civil Serv. Cmn, 66-67; PROF. POLIT. SCI. & CHMN. DIV. SOC. SCI, COPPIN STATE COL, 67- Vis. scholar, surv. res. center, Michigan, 65; Ford Found. grant metrop. coun. of govt, 68-69. Consult, gen. mgt. training center, U.S. Civil. Serv. Cmn, 67. U.S.A, 47-48. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Int. Law. International law and organization; United States treatment of alien enemy property seized during the time of war and treatment of enemy aliens. Publ: The Stoics' universal community and its relationship to modern international law, Soc. Sci, summer 55; International relations and the disposition of alien enemy property... during World War II..., J. Polit, 11/61; The alien enemy hearing board as a judicial device during World War II, Brit. J. Int. & Comp. Law, 10/65. Address: 4103 Fernhill Ave, Baltimore, Md. 21215.

HARRIS, PROF. CHAUNCY D(ENNISON), b. Logan, Utah, Jan. 31, 14; m. 40; c. 1. GEOGRAPHY. A.B, Brigham Young, 33; Rhodes scholar, Oxford & London, 34-37, B.A, Oxford, 36, M.A, 43; univ. fel, Chicago, 37-39, Ph.D. (geog), 40; hon. D.Econ, Catholic Univ. Chile, 56. Instr. GEOG, Indiana, 39-41; asst. prof, Nebraska, 41-43; CHICAGO, 43-46, assoc. prof, 46-47, PROF, 47-, CHMN. DEPT. 67-, DIR. CENTER INT. STUDIES, 66-, dean soc. sci, 54-60. With U.S. Dept. State, 42-43; Off. Strategic Servs, 44-45; vis. prof, Frankfurt, 50-51; Columbia, 54. V.pres, Int. Geog. Union, 56-64; dir, Soc. Sci. Res. Coun, 59-, mem. joint cmt. slavic studies, Soc. Sci. Res. Coun. & Am. Coun. Learned Socs. 54-65; div. behav. sci. Nat. Res. Coun. 65-68; Inter-Univ. Cmt. Travel Grants, 56-65. Distinguished Serv. Award, Geog. Soc. Chicago, 65. AAAS: Asn. Am. Geog.(secy, 46-48, v.pres, 56, pres, 57); Asn. Adv. Slavic Studies (pres, 62); Inst. Brit. Geog; Asn. French Geog. Economic and urban geography; geography of Union Soviety Socialist Republics. Publ: International list of Geographical serials; ed. Economic geography of the USSR and Soviet geography: accomplishments and tasks. Address: Dept. of Geography, University of Chicago, Chicago, Ill. 60637.

HARRIS, PROF. CHESTER W(ILLIAM), b. Denver, Colo, Apr. 27, 10; m. 66; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Denver, 31; Ph.D, Chicago, 46. Teacher, pub. schs, Colo, 34-42; asst. prof. ED, Chicago, 46-48; PROF, WISCONSIN, MADISON, 48- U.S.A.A.F, 42-46, Maj. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc.(pres, 66-67); Inst. Math. Statist; Ed. Res. Asn.(pres, 60-61). Educational measurement; design of experiments; factor analysis. Publ: Ed, Encyclopedia of educational research; Problems in measuring change. Address: Dept. of Educational Psychology, University of Wisconsin, 936 W. Johnson St, Madison, Wis. 53706.

HARRIS, PROF. CURTIS C(LARK), JR, b. Cape May, N.J, Aug. 6, 30; m. 55; c. 3. ECONOMICS. B.S, Florida, 56; fel, Harvard, 58-59, A.M, 59, Ph.D, 60. Asst. prof. agr. econ, California, Davis, 59-64; economist, U.S. Dept. Commerce, 64-67; ASSOC. PROF. ECON, MARYLAND, 67- Econ. Develop. Admin. grant & prin. investr, U.S. Dept. Commerce, Bur. Bus. & Econ. Res, Univ. Maryland, 67-69. U.S.C.G, 51-53. Econ. Asn. Regional and urban economics; economic forecasting and theory. Publ: Suburban development as a stochastic process, Univ. Calif. Berkeley, 66; Free trade in Corn: a statistical study of the prices and production of wheat in Great Britain from 1873 to 1914, Quart. J. Econ; Parity income prices, J. Farm Econ. Address: 7008 Wells Pkwy, Hyattsville, Md. 20782.

HARRIS, PROF. DALE B(ENNER), b. Elkhart, Ind, June 28, 14; m. 35; c. 4. PSYCHOLOGY. A.B, DePauw, 35; M.A, Minnesota, 37, Ph.D.(ed. psychol), 41. Dir. ed, Minn. State Training Sch. for Boys, 36-38; instr. child welfare, inst. child welfare, Minnesota, 39-42, asst. prof, 42-46, assoc. prof, 46-48, prof, 48-59, dir, inst, 54-59; PROF. PSYCHOL, PA. STATE, 59-, head dept, 62-67. U.S.M.C, 44-46, Capt. AAAS; Psychol. Asn; Soc. Res. Child Develop. (secy, 56-60); Statist. Asn. Juvenile delinquency; personality development and adjustment in children; psychology of children's drawings. Publ: Ed, The concept of development; co-auth, Child care and training; auth, Children's drawings as measures of intellectual maturity, Harcourt, 63. Address: 317 W. Ridge Ave, State College, Pa. 16801.

HARRIS, DR. DANIEL H(ENRY), b. New York, N.Y, June 16, 07; m. 41; c. 4. PSYCHOLOGY. A.B, Columbia, 27, M.A, 28, Ph.D.(psychol), 31. Psychiat. soc. worker, Hebrew Sheltering Guardian Soc, 28-29; instr. psychol, Lehigh, 30-35; ed. adv, Civilian Conserv. Corps, 35-36; asst. psychologist, Northeast. Fed. Penitentiary, U.S. Pub. Health Serv, 36-37; consult. psychologist, 37-42; voc. adv, U.S. Vet. Admin, N.Y, 46-47, rehab. specialist, cent. off, D.C, 47-49; res. dir, Saranac Lake Rehab. Guild, 49-52; clin. psychologist, Marine Corps Recruit Depot, 53-58; clin. psychologist, SAN DIEGO COMMUNITY MENT. HEALTH SERV, 62-65, SUPV. CLIN. PSYCHOLOGIST, 65- Private practice, 57-; counselor (prof), student counseling serv, San Diego State Col, 66-67. Voc. consult, bur. hearings & appeals, soc. security admin, U.S. Dept. Health, Ed. & Welfare, 63- Med.Serv.C, 42-46, Comdr. Fel. Psychol. Asn; Personnel & Guid. Asn. Social attitudes and behavior; neuropsychiatric screening; rehabilitation. Publ: Questionnaire and interview in neuropsychiatric screening, J. Appl. Psychol, 12/46; Social and psychological factors in the rehabilitation of the tuberculous, In: Groups, leadership and men, Carnegie, 51; Brief psychotherapy and enuresis, J. Consult. Psychol, 55. Address: 4665 Denwood Rd, La Mesa, Calif. 92041.

HARRIS, DEAN DAVID LLOYD, b. Fostoria, Ohio, Jan. 8, 19; m. PSYCHOLOGY. A.B, Chicago, 40, A.M, 41; Litt.M, Pittsburgh, 46. Assoc. prof. psychol, Hillsdale Col, 46-49; assoc. prof. psychol. & dean students, Henderson State Teachers Col, Ark, 49-54; ASSOC. PROF. PSYCHOL. & DEAN MEN, RIPON COL, 54- U.S.A, 42-45. Psychol. Asn. Client-centered counseling, personality theory and dynamics. Address: Dept. of Psychology, Ripon College, Ripon, Wis. 54971.

HARRIS, DR. DOUGLAS H(ERSHEL), b. Indianapolis, Ind, Oct. 7, 30; m. 56; c. 1. PSYCHOLOGY, STATISTICS. B.S, Iowa State, 52; Purdue Res. Found. fel, Purdue, 56-57, M.S, 57, Ph.D.(indust. psychol), 59. Res. psychologist & proj. dir, Human Factors Res, Inc, 58-62; GROUP SCIENTIST, HUMAN FACTORS DEPT, AUTONETICS DIV, N.AM. ROCKWELL CORP, 62- Lectr, Southern California, 62-65. U.S.N, 52-55, Res, 55-, Lt. Human Factors Soc; Psychol. Asn. Human performance in industrial systems; factors in the effectiveness of professional personnel. Publ: The impact of microelectronics on the training and utilization of maintenance personnel, Human Factors, 67; co-auth, Human factors in quality assurance, Wiley, 68; auth, Development and validation of a test of creativity in engineering, J. Appl. Psychol. Address: 4820 River Ave, Newport Beach, Calif. 92660.

HARRIS, DR. EDWIN FRANCIS, b. Detroit, Mich, Jan. 24, 25; m. 49; c. 1. PSYCHOLOGY. B.A, Wayne State, 49, M.A, 50; fel, Ohio State, 51-52, Ph.D. (indust. psychol), 52. Asst. psychol, Wayne State, 49-50; Ohio State, 50-51; asst. proj. dir, Air Force Personnel & Training Res. Center, 53-54; asst. prof. personnel, Cornell, 54-55; MGR. PERSONNEL PLACEMENT, RECRUITMENT & DEVELOP, CHRYSLER CORP, 55- Mem. adj. staff, Univ. Detroit, 66. U.S.A.A.F, 43-45. Psychol. Asn. Leadership; employee motivation. Publ: Co-auth, Leadership and supervision in industry, Bur. Ed. Res, Ohio State Univ, 55, Human relations training and the stability of leadership patterns, Appl. Psychol, 55 & Leadership behavior related to employee grievances and turnover, Personnel Psychol, 62. Address: 2441 Brenthaven Dr, Bloomfield Hills, Mich. 48013.

HARRIS, PROF. E(LEANOR) CURETON, Econ, Statist, see 10th ed, Soc. & Behav. Vols.

HARRIS, PROF. EVELYN L. K, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

HARRIS, DR. FRANK J(AMES), b. Boston, Mass, Dec. 8, 17; m. 46; c. 1. PSYCHOLOGY. B.A, Suffolk, 40; M.S, Connecticut, 42; fel, Purdue, 47-48, Ph.D.(indust. psychol), 48. Res. psychologist, U.S. Pub. Health Serv, 48-52; opers. analyst, opers. res. off, Hopkins, 52-61; SR. RES. PSYCHOLOGIST, STANFORD RES. INST, 61- Prof. lectr, American Univ, 49-52. Dipl, Am. Bd. Exam. Prfnl. Psychol, 51. U.S.A.A.F, 42-46, 1st Lt. Psychol. Asn; Opers. Res. Soc. Operation research; systems analysis; field experimentation. Address: Stanford Research Institute, 333 Ravenswood Ave, Menlo Park, Calif. 94025.

HARRIS, DR. FREDERICK H, JR, b. Raleigh, N.C, Feb. 1, 13; m. 48; c. 2. POLITICAL SCIENCE. A.B, Randolph-Macon Col, 34; A.M, North Carolina, 43, Ford Found. fel, 53-54, Ph.D, 57; Harvard, 48. Instr. polit. sci, Purdue, 47; lectr, Boston, 48; instr. soc. sci, North Carolina, 50-55; asst. prof. POLIT. SCI, Univ. of the South, 55-56; ASSOC. PROF, Ga. State Col, 57-67; VA. POLYTECH, 67- U.S.A, 43-46, 1st Lt. Polit. Sci. Asn. Political behavior in local communities, both small town and metropolitan areas; twentieth-century political theory and methodology. Publ: Study of political participation in two North Carolina counties, Res. Revs. Address: Dept. of Political Science, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

HARRIS, DR. GEORGE TAYLOR, b. Waterloo, Iowa, Mar. 15, 17; m. 45; c. 3. FINANCE. B.A, Iowa State Teachers Col, 47; M.A, Iowa, 50, Ph.D.(econ), 53. Asst. prof. finance, sch. bus, Indiana, 53-55; assoc. prof. BUS. ADMIN, NEBRASKA, OMAHA, 55-58, PROF, 58-, FREDERICK W. KAYSER PROF. FINANCE, 67- Econ. Asn; Finance Asn. Economics; banking; investment principles, analysis and management of securities. Address: Dept. of Business Administration, University of Nebraska, Omaha, Nebr. 68101.

HARRIS, DR. HAROLD JOSEPH, b. Del Rio, Tex, Aug. 18, 20; m. 46; c. 4. CHILD PSYCHIATRY, PSYCHOANALYSIS. B.A, Texas, 46; M.D, Long Island Col. Med, 49. Intern, Mt. Zion Hosp, San Francisco, Calif, 49-50; adult psychiat. trainee, Menninger Found, 50-52; fel. child psychiat, Mass. Gen. Hosp, 52-53; N.C. Mem. Hosp, Chapel Hill, 55-56; instr. PSYCHIAT, sch. med, North Carolina, 56-59, asst. prof, 59-60; ASSOC. PROF, MED. CENTER, DUKE, 60- Med.C, U.S.A.F, 53-55, Capt. Fel. Psychiat. Asn; Acad. Child Psychiat. Outcome of psychotherapy; psychological crises during pregnancy. Address: Division of Child Psychiatry, Duke University Medical Center, Durham, N.C. 27706.

HARRIS, PROF. HOWARD L(EROY), b. Hereford, Tex, Oct. 9, 17; m. 43; c. 6. ANTHROPOLOGY. B.A, Iowa, 40; M.A, Missouri, 42; B.D, Hartford Sem. Found, 47; Merrill-Palmer Inst, 54-55. Asst. prof. biol, Friends, 47-50; minister, Iowa, 50-51, Ohio, 51-53 & N.Y, 53-54; counsr, Livonia Pub. Schs, Mich, 55-58 & 59-62; lectr. ANTHROP, San Fernando Valley State Col, 62-64, ASSOC. PROF, 64-65; WEST. WASH. STATE COL, 66- Ecology; socialization, education and child development; comparative religion. Address: Dept. of Sociology & Anthropology, Western Washington State College, Bellingham, Wash. 98225.

HARRIS, DR. J. DONALD, b. Brownsburg, Pa, May 12, 14; m. 46; c. 5. PSYCHOLOGY. B.A, Maryville Col, 35; scholar, Vanderbilt, 35-36, M.A, 36; fel, Colorado, 39-40; fel, Rochester, 40-42, Ph.D.(psychol), 42. Instr. psychol, Rochester, 42-43; head auditory res. br, MED. RES. LAB, SUBMARINE BASE, 43-66; SCI. MGR. BEHAV. SCI. DIV, 66- Adj. prof. City Col. New York, 65-; prof, Connecticut, 67- Dir. res, C.W. Shilling Auditory Res. Center, Inc, 57- Ed, J. Auditory Res, 59- Med.Serv.C, 43-45, Res, 45-, Lt.(jg). Fel. AAAS; fel. Psychol. Asn; fel. Acoustical Soc; fel. Speech & Hearing Asn; Psychonomic Soc. Psychology of learning; animal hearing;

psychoacoustics; psychophysiological acoustics; audiology. Address: Medical Research Lab, Submarine Base, Groton, Conn. 06340.

HARRIS, JAMES A(RTHUR), SR, Econ, see 10th ed, Soc. & Behav. Vols.

HARRIS, PROF. JAMES M(AURICE), b. Ogden, Utah, July 29, 26; m. 53; c. 4. EDUCATIONAL & CHILD PSYCHOLOGY. B.S, Utah State, 52, M.S, 53; Ph.D.(ed. psychol), Cornell, 55. Asst. counsr, Utah State, 51-52; admin. asst. testing & serv. bur, Cornell, 53-55; PROF. ED. PSYCHOL, BRIGHAM YOUNG, 55-, DIR. ED. CLIN, 67- Psychologist, Jefferson County Sch. Dist, Colo, 61-62. Mem, Coun. Except. Children. U.S.A.A.F, 45-46, Res, 46-, 1st Lt. Evaluation of the need for counseling services at the elementary school level; children's reading interests. Address: Dept. of Educational Psychology, Brigham Young University, Provo, Utah 84601.

HARRIS, DR. JANICE WINIFRED (MRS. REX D. HOPPER), b. Fairfield, Conn, June 11, 18; m. 61. SOCIOLOGY. B.A, Hunter Col, 39, fel, 39-40; scholar, New Sch. Soc. Res, 52-54, Halle fel, 54-55, Ph.D, 56. Admin. asst. & teacher Eng, U.S. Dept. State Cultural Center, Brazil, 42-47; researcher, encyclop. div, P.F. Collier & Son, 48-52; res. div, New Sch. Soc. Res, 52-54; instr. sociol, Hobart & William Smith Cols, 55-56; Am. Found. for Blind, 55-58; asst. for. student adv, New Sch. Soc. Res, 58-59; lectr. polit. sci, Brooklyn Col, 59-60; admin. officer, Am. Sociol. Asn, 60-65; SR. RES. ASSOC. SOCIOL, INST. CROSS-CULTURAL RES, OPER. & POLICY RES, INC, 65- Lectr, N.Y. Univ, 60-63; Georgetown, 68- Consult. Mem. cmt. psychol. oper. Vietnam, Simulmatics Corp, 67. Sociol. Asn; Polit. Sci. Asn; Latin Am. Studies Asn. Social change and development; psychological operations; American social theory; mass communications. Publ: Ed. & translator, Indians of Brazil in the twentieth Century, Inst. Cross-Cultural Res, D.C, 67. Address: 824 25th St. N.W, Washington, D.C. 20037.

HARRIS, PROF. JESSE G(RAHAM), JR. b. Jacksonville, Fla, Jan. 5, 26; m. 53; c. 2. CLINICAL PSYCHOLOGY. B.A, Harvard, 46; Ph.D.(psychol), Duke, 55. Asst. prof. psychol, Connecticut, 58-60; assoc. prof. clin. psychol, Col. Med. & assoc. prof. PSYCHOL, Univ. KENTUCKY, 60-63, PROF, 63-, chmn. dept, 63-67. Vis. lect, Hawaii, 68; field selection officer, Peace Corps, 68- Consult, Vet. Admin. Hosps, 60-; Cmn. Handicapped Children, Ky, 61; Nat. Inst. Ment. Health Clin. Res. Center, 61- Mem, Ky. Ment. Health Manpower Cmn, 63-; Ky. State Bd. Psychol, 66-70. Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. U.S.N, 44-45, Med.Serv.C, 55-58, Res, 58- Fel. Psychol. Asn. Psychopathology; perception; clinical diagnosis; tests and measurements; psychotherapy; cross cultural research. Publ: Size estimation of pictures as a function of thematic content for schizophrenic and normal subjects, J. Personality, 57; Validity: the search for a constant in a universe of variables, In: Rorschach psychology, 60; Judgmental versus mathematical prediction: an investigation by analogy of the clinical versus statistical controversy, Behav. Sci, 63. Address: Dept. of Psychology, University of Kentucky, Lexington, Ky. 40506.

HARRIS, DR. JOHN REES, b. Rockford, Ill, Feb. 7, 34; m. 54; c. 3. ECONOMICS. A.B, Wheaton Col.(Ill), 55; Nat. Defense Ed. Act fel. & M.A, Northwestern, 64, Soc. Sci. Res. Coun-Am. Coun. Learned Socs. fel. & Ph.D.(econ), 67. Assoc. res. fel. ECON, Nigerian Inst. Soc. & Econ. Res, 65; ASST. PROF, MASS. INST. TECH, 66- U.S.A, 55-57, Res, 60-65, Capt; Nat. Guard, 57-60. Econ. Asn. Economic development in sub-Sahara Africa; socio-economic determinants of entrepreneurship; economics of containerization in ocean shipping. Publ: Co-auth, Puerto Rican shipping and the U.S. maritime laws: an economic appraisal, Northwestern Univ. Transportation Center, 68 & Entrepreneurial patterns in the Nigerian sawmilling industry, Nigerian J. Econ. & Soc. Studies, 3/66. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

HARRIS, PROF. JOHN SHARP, b. Richmond, Va, Aug. 5, 17; m. 48; c. 2. POLITICAL SCIENCE. B.S, Richmond, 39, M.A, Col. William & Mary, 41; M.S, Syracuse, 42; Ph.D.(polit. sci), Chicago, 51. Res. asst, State Div. Budget, Va, 39-40; advert. asst, Reynolds Metal Co, Richmond, 41-42; instr. polit. sci, Cincinnati, 46-47; asst. prof. pub. admin, Southern California, 49-51; assoc. prof. polit. sci, Tennessee, 51-52; asst. prof, Wayne State, 52-56; prof. GOVT, MASSACHUSETTS, 56-58, COMMONWEALTH PROF, 58-, head dept, 56-63. Rockefeller Found. res. grants, Britain, 64-65, summer 67. Lt, U.S.N.R, 42-46. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; comparative government and politics; Asian and African studies. Publ: British government inspection as a dynamic process, Praeger, 55; co-auth, The permanent secretaries: Britain's top administrators, Pub. Admin. Rev, 3/66; auth, Government support of the arts: how British experience may be relevant to American problems, In: Public policy, Harvard, 67. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

HARRIS, DR. JOSEPH E, African Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HARRIS, DR. JOSEPH JERRY, b. Dubois, Pa, Feb. 1, 26; m. 50; c. 3. CLINICAL PSYCHOLOGY. B.A, Pa. State, 50; M.S, Pittsburgh, 54, Ph.D.(psychol), 57. Exam. psychol. tests, Psychol. Serv. of Pittsburgh, 51-52; psychologist, West. State Penitentiary, 52-57; clin. psychol. trainee, LEECH FARM VET. ADMIN. HOSP, 57-58, CLIN. PSYCHOLOGIST, 58- U.S.A, 44-46. Psychol. Asn. Criminal psychology; attitudes toward mental illness. Address: 147 Ritzland Rd, Pittsburgh, Pa. 15235.

HARRIS, PROF JOSEPH P(RATT), b. Sulphur Springs, N.C, Feb 18, 96; m. 18. POLITICAL SCIENCE. A.B, Kansas, 18; Ph.D, Chicago, 23. Instr. polit. sci, Wisconsin, 23-25, asst. prof, 25-27, assoc. prof, 27-30; prof, Washington (Seattle), 30-34; assoc. dir, President's Cmt. Econ. Security, 34-35; dir. res, cmn. pub. admin, Soc. Sci. Res. Coun, 35-39; PROF. POLIT. SCI, California, 39-40; Northwestern, 40-41; CALIFORNIA, BERKELEY, 41- Soc. Sci. Res. Coun. fel, 26-27; Fulbright fel, 56; Guggenheim fel, 56-57; Brookings Instn. fel, 58-60; lectr, American Univ, 37-39; dir, personnel & training, UNRRA, 44-45. Consult, McGraw Hill Book Co, 40- U.S.A, 18-19 42-44, Col. Polit. Sci. Asn.(v.pres, 55); Soc. Pub. Admin.(v.pres, 42); Int. City Mgr. Asn. Election administration in the United States; legislative process; public administration. Publ: Advice and consent of the Senate; California politics; Congressional control of administration. Address: Dept. of Political Science, University of California, Berkeley, Calif. 94707.

HARRIS, DR. K(ATHERINE) S(AFFORD), b. Lowell, Mass, Sept. 3, 25; m. 52; c. 2. PSYCHOLOGY. B.A, Radcliffe Col, 47, Ph.D, 54; fels, Harvard, 49-50. Asst. perception proj, dept. soc. rel, Harvard, 47, psychol, 49-52; RES. PSYCHOLOGIST, HASKINS LABS, 52-; PROF. SPEECH, HUNTER COL, 66- Fel. Acoustical Soc; Speech & Hearing. Psychoacoustics; speech production and perception; auditory nervous system. Address: Haskins Labs, 305 E. 43rd St, New York, N.Y. 10017.

HARRIS, DR. LAUREN, b. Chicago, Ill, July 9, 40. DEVELOPMENTAL PSYCHOLOGY. B.S, Illinois, 61; Nat. Inst. Ment. Health fel, Minnesota, 62-65, M.A, 63, Ph.D.(child psychol), 65. Lectr. child psychol, Minnesota, 64-65; ASST. PROF. PSYCHOL, MICH. STATE, 65- Summer res. psychologist, Nat. Inst. Ment. Health, 62. Res. consult, Head-Start Eval. Prog, Mich. State, 66- AAAS; Psychol. Asn; Soc. Res. Child Develop; Psychonomic Soc. Learning and perceptual development. Publ: The effects of relative novelty on children's choice behavior, 9/65, The effects of the stimulus setting and of variability in delayed reinforcement on children's visual orientation and speed of lever movement, 9/67 & Looks by preschoolers at the experimenter in a choice-of-toys game: effects of experimenter and age of child, (in press) 68, J. Exp. Child Psychol. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

HARRIS, LOUIS, b. New Haven, Conn, Jan. 6, 21; m. 43; c. 3. SOCIOLOGY, POLITICAL SCIENCE. A.B, North Carolina, 42. Partner, Elmo Roper & Assocs, 47-56; PRES, LOUIS HARRIS & ASSOCS, INC, 56- Faculty assoc, Columbia, 54-64; adj. prof, North Carolina, 65- U.S.N.R, 43-46. Asn. Pub. Opinion Res; Statist. Asn; Mgt. Asn; Mkt. Asn; Indust. Rels. Res. Asn; Sociol. Asn; Polit. Sci. Asn. Economics; decision making in voting; marketing and motivation; public relations. Publ: Is there a Republican majority, 54; co-auth, The Negro revolution in America, 64; Black and white, 67. Address: Room 3301, 1 Rockefeller Plaza, New York, N.Y. 10020.

HARRIS, PROF. LOUIS K, b. St. Clairsville, Ohio, Mar. 11, 23; m. 46; c. 3. POLITICAL SCIENCE. A.B, Ohio State, 45, M.A, 46; Ph.D.(polit. sci), California, Los Angeles, 56. Instr. polit. sci, Kent State, 47-50, asst. prof, 50-56, assoc. prof, 56-61; prof. pub. admin, Agency Int. Develop, Univ. Panama, 62-63; Fulbright prof, POLIT. SCI, Nat. Univ. Mexico, 64; PROF, KENT STATE, 64-, CHMN. DEPT, 66- Polit. Sci. Asn; Asn. Latin Am. Studies. Latin American politics and governments. Publ: Co-auth, Political forces in Latin America, Wadsworth, 68; auth, Panama, Praeger, 68. Address: 3566 Dayton Ave, Kent, Ohio 44240.

HARRIS, DR. MARSHALL (DEES), b. Hempridge, Ky, Sept. 22, 03; m. 34; c. 2. AGRICULTURAL ECONOMICS. B.S, Kentucky, 26; M.S, Illinois, 32; Ph.D, 42. Asst, Illinois, 30-34; AGR. ECONOMIST, div. land econ, bur. agr. econ, U.S. DEPT. AGR, 34-54, agr. res. serv, 54-61, ECON. RES. SERV, 61-, RES. PROF, COL. LAW, IOWA, 54- Land tenure in agricultural economics; legal aspects of land tenure; vertical coordination contracts; locus of entrepreneurship in agriculture; installment land contracts. Publ: Origin of the land tenure system; co-auth, Installment land contracts in Iowa, Univ. Iowa, 65; auth, Vertical coordination via contract farming, U.S. Dept. Agr, 67. Address: Agricultural Law Center, University of Iowa, Iowa City, Iowa 52240.

HARRIS, PROF. MARVIN, b. Brooklyn, N.Y, Aug. 18, 27; m. 53; c. 2. ANTHROPOLOGY. A.B, Columbia, 48, Soc. Sci. Res. Coun. fel, 50-51, Ph.D, 53. Asst, COLUMBIA, 52-53, asst. prof. ANTHROP, 53-59, assoc. prof, 59-63, PROF, 63-, chmn. dept, 63-66. Ford Found. fel, 56-57; lectr, For. Serv. Inst, 66-; Nat. Sci. Found. grant, 66-67. U.S.A, 45-47. Anthrop. Asn. Community studies; Latin America, especially Brazil; ethnology of Africa, especially Mocambique. Publ: Town and country in Brazil, Columbia, 56; Nature of cultural things, Random, 64; Rise of anthropological theory, Crowell, 68. Address: Dept. of Anthropology, Columbia University, New York, N.Y. 10027.

HARRIS, DR. PHILIP, Counseling Psychol, see 10th ed, Soc. & Behav. Vols.

HARRIS, DR. ROBERT, b. Brooklyn, N.Y, July 2, 32; m. 61. SPECIAL EDUCATION, SPEECH PATHOLOGY. B.A, Brooklyn Col, 54, M.A, 55; Ph.D. (ed), Pennsylvania, 62. Speech therapist, Henderson Rehab. Center, Ga, 55-56; audiologist, Hosp. Univ. Pennsylvania, 59-62; asst. prof. HEARING, Kansas State, 62-63; ASSOC. PROF, TRENTON STATE COL, 63-, SUPVR. GRAD. PROG. SPEECH PATH, 65- U.S. Off. Voc. Rehab. trainee, 56; U.S. Pub. Health Serv. res. grant, 61-62; Spanish Govt. travel grant, Spain, 65. Consult. audiol, Mercer Hosp, Trenton, N.J, 65- U.S.A, 56-58. Speech & Hearing Asn. Audiology; central auditory functions in children; the small encounter group and its use in training speech therapists. Publ: Central auditory functions in children, Perceptual & Motor Skills, 63. Address: Trenton State College, Trenton, N.J. 08625.

HARRIS, PROF. ROBERT E(UGENE), b. Crookston, Minn, Jan. 21, 15; m. 41; c. 3. MEDICAL PSYCHOLOGY. B.A, Minnesota, 35, Ph.D.(psychol), 39. Asst, Minnesota, 35-38, instr. psychol, 38-42, clin. psychologist, 38-42; from lectr. to PROF. MED. PSYCHOL, DEPT. PSYCHIAT, SCH. MED, CALIFORNIA, SAN FRANCISCO, 43-, SR. ATTEND. PSYCHOLOGIST, LANGLEY PORTER NEUROPSYCHIAT. INST, 60- Carnegie interdisciplinary fel, Columbia, 40-41; lectr, dept. psychol, California, Berkeley, 43- Consult, Vet. Admin, 47-; U.S. Pub. Health Serv, 49-60; U.S. Dept. Army, 49- Psychol. Asn. Psychosomatic medicine; psychotherapy; personality assessment. Address: Dept. of Psychiatry, University of California School of Medicine, San Francisco, Calif. 94122.

HARRIS, PROF. ROBERT J(ENNINGS), b. Wilson Co, Tenn, Oct. 25, 07; m. 37. POLITICAL SCIENCE. A.B, Vanderbilt, 30; scholar, Illinois, 30-31, A.M, 31; fel, Princeton, 32-34, Ph.D, 34. Instr. polit. sci, Cincinnati, 34-36; asst. prof. govt, La. State, 36-38, assoc. prof, 38-43, prof, 43-54, head

dept, 41-54; prof. polit. sci, Vanderbilt, 54-63, chmn. dept, 62-63; PROF. GOVT, VIRGINIA, 63-, dean faculty arts & sci, 63-68. Edward Douglass White lectr, La. State, 59. Ed, J. Polit, 39-45. Polit. Sci. Asn.(v.pres, 50). American constitutional law and political theory; government and the economic order. Publ: Judicial power of the United States; The quest for equality: the Constitution, Congress, and the Supreme Court; collab, The Constitution of the United States, analysis and interpretation. Address: 416 Cabell Hall, University of Virginia, Charlottesville, Va. 22903.

HARRIS, DR. RUBY DEAN, b. Stephens, Mo, May 12, 04. PSYCHOLOGY, GUIDANCE. B.S, Missouri, 28; M.A, Columbia, 30; Ed.D, Stanford, 49. Teacher, pub. schs, Mo, 24-26; teacher & dean girls, acad, William Woods Col, 26-28, dir. health & phys. ed, 30-34; teacher, high sch, Nebr, 28-29; group worker, YWCA, Fresno, Calif, 34-37; teacher & counsr, pub. schs, 37-43; asst. supt, Ventura Sch. Delinquent Girls, Calif. Youth Authority, 43-47;asst. leader, 4H Club prog, AGR. EXTEN. SERV, CALIFORNIA, BERKELEY, 49-56, SPECIALIST FAMILY RELS. LEADERSHIP TRAINING, 56-Summer, lectr, guid. workshop, Stanford, 49. Consult, Peninsula YWCA; prog. family life ed, 6th Dist. Cong. Parent Teachers; Oakland, Calif. City Schs, 67-68. Mem. res. cmt. child develop. & family rels, fed. exten. serv, U.S. Dept. Agr, 58-; U.S. del. to Int. Union Family Orgn. Annual Conf, New Delhi, India, 67. Alumnae award distinction, William Woods Col, 64. Psychol. Asn; Personnel & Guid. Asn; Adult Ed. Asn. Effects of teen-age credit cards on learning the handling of money. Publ: Pre-schooler's advice to parents, Univ. California, 67; Guidance in California schools, Calif. J. Secondary Ed; Hi-4H'ers set their guideposts. Address: 233 University Hall, University of California, Berkeley, Calif. 94720.

HARRIS, PROF. SEYMOUR E(DWIN), b. New York, N.Y, Sept. 8, 97; m. 23. ECONOMICS. A.B, Harvard, 20, Ph.D, 26; hon. LL.D, Monmouth Col, 61, Massachusetts, 63. Instr. econ, Harvard, 22-27, lectr, 27-33, asst. prof, 33-36, assoc. prof, 36-46, prof, 46-57, chmn. dept, 55-59, Littauer prof. polit. econ, 57-64; PROF. ECON, CALIFORNIA, SAN DIEGO, 64- Asst. prof, Cornell, 27; vis. prof, Stanford, 48. Adv, policy cmt, Bd. Econ. Warfare; dir. off. export import price control, Off. Price Admin, 42-43; chmn, New Eng. Governors' Textile Cmt, 55-; econ. adv, Secy. Treas, 61- Wells prize, Harvard, 27; Hamilton award, U.S. Treas, 67. AAAS; Econ. Asn. (v.pres). Money and finance; international and regional economics and education. Publ: Economics of American medicine, 62; Higher education: resources & finance, McGraw, 62; Economics of Kennedy years, 64. Address: Dept. of Economics, University of California, San Diego, La Jolla, Calif. 92037.

HARRIS, PROF. STUART ARTHUR, Geog, Soil Sci, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HARRIS, DR. VIRGINIA N(ORENE), b. Brashear, Mo, Nov. 6, 11. PSYCHOLOGY. A.B, Harris Teachers Col, 34; M.A, Washington (St. Louis), 48, univ. fel, 48-50, Ph.D.(ed, psychol), 53; Western Reserve, 57-58. Teacher, pub. schs, Mo, 36-48; assoc. prof. psychol. & psychologist, ed. clin, St. Cloud State Col, 50-53; psychologist, pub. schs, Ohio, 53-60, dir, psychol. serv, 60-61; chief psychologist & dir. spec. ed, State Dept. Pub. Instr, Ill, 61-65; ASSOC. PROF. PSYCHOL, EDWARDSVILLE CAMPUS, SOUTHERN ILLINOIS, 65- Consult, sch. psychol, 65- Mem. Coun. Except. Children; chmn. sch. psychologist, Ill, 67-69. Psychol. Asn; Orthopsychiat. Asn. Diagnosis, counseling and psychotherapy regarding children's problems; personality development; prevention of learning and adjustment problems. Address: 222 Third Ave, Edwardsville, Ill. 62025.

HARRIS, PROF. W(ALTER) CARLTON, Finance, see 10th ed, Soc. & Behav. Vols.

HARRIS, DR. WILLIAM N, Geog, see 11th ed, Phys. & Biol. Vols.

HARRIS, DR. WILLIAM P(ANCOAST), Psychol, see 10th ed, Soc. & Behav. Vols.

HARRISON, PROF. ADA M(ARGERY), b. Sask, Can, Feb. 2, 14. ECONOMICS. A.B, State Col. Wash, 41; A.M, Radcliffe Col, 49, Ph.D.(econ), 52. Asst. economist, Off. Price Admin, Colo, 43-44, bus. economist, D.C, 44-46; assoc. prof. ECON, CARLETON COL, 48-58, PROF. & CHMN. DEPT, 58- Econ. Asn. Industrial organization; market structure of the household furniture industry. Address: 417 Union St, Northfield, Minn. 55057.

HARRISON, A(RTHUR) JOHN, b. Wellington, Eng, Aug. 3, 19; m. 54; c. 2. ECONOMICS. B.A, Oxford, 41, M.A, 46; B.Sc, London, 49; Columbia, 55-58. Develop. officer & sr. treas, Nat. Union Students, Eng, 46-49; exec. dir, Travel & Study Inc, New York, 50-55; DEP. MGR. SPEC. MKT, SCANDINAVIAN AIRLINES, 55- Intern, UN, 49; radio commentator, WEVD Univ. of the Air, New York, 55-59; lectr, Queens Col.(N.Y), 58- Asst. ed, Laytons Trade Intel, Eng, 50. Friends Ambulance Unit, 41-46. AAAS; Econ. Asn; Mod. Lang. Asn. International economics; business organization, management and marketing. Publ: Development of international operations through direct foreign investment. Address: 27 W. 55th St, New York, N.Y. 10019.

HARRISON, DAVID J(OHN), b. Merrickville, Ont, July 24, 12; nat; m. 41; c. 5. STATISTICS. B.Sc, Sir Geo. Williams Col, 43. Biochemist, Ayerst, McKenna & Harrison, Can, 35-51, coordinator pharmaceut. develop, 51-53; STATISTICIAN, AYERST LABS, INC, 53- AAAS; Soc. Qual. Control; Statist. Asn; Biomet. Soc. Biological, microbiological and chemical assay methods; biometrics clinical trials; incoming inspection; production control. Address: Ayerst Labs, Inc, 55 Maple St, Rouses Point, N.Y. 12979.

HARRISON, PROF. FRANK R, b. St. Louis, Mo, Aug. 30, 13; m. 41. ECONOMICS. B.S, Illinois, 41; M.S, St. Louis, 46; Ph.D, Iowa, 50. Assoc. prof. mgt, Ohio State, 52-53; analyst, Inland Steel Co, 53-55; consult, Sessions Eng. Co, 55-59; asst. chief tech. staff, Evanston Commodity Off, U.S. Dept. Agr, 59-66; PROF. MGT, ROOSEVELT, 66- Instr, seminars, U.S. Civil Serv. Cmn. & Am. Hosp. Asn. Ed. consult, consol. indust. rels. div, electronic supply off, Great Lakes Naval Training Sta, Ill, 66- U.S.N, 44-46, Lt.(jg). Opers. Res. Soc; Soc. Adv. Mgt. Use of organization and procedure manuals as management tools; role of the foreman in manufacturing management; scheduling and controls for electronic computers. Publ: Place of organization and procedure manuals in business administration. Address: 433 Locust St, Winnetka, Ill. 60093.

HARRISON, PROF. HORACE VIRGIL, b. Waxahachie, Tex, July 24, 11; m. 47. POLITICAL SCIENCE. A.B, Trinity (Tex), 32; M.A, Texas, 41, Ph.D.(polit. sci, hist), 51. Instr. soc. sci, Midwestern, 47-48, prof. hist. & polit. sci, 50-51; vis. lectr, Texas, Colorado & Emory, 51-54; asst. prof. GOVT. & POLIT, MARYLAND, 54-58, assoc. prof, 58-65, PROF, 65- U.S.N, 42-45. Polit. Sci. Asn; Soc. Int. Law. Inter-American relations; Latin American history and government; international law and relations. Ed, Theory in International Relations. Address: 7107 Pony Trail Lane, Hyattsville, Md. 20782.

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HARRISON, DR. JOHN F(LETCHER) C(LEWS), Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HARRISON, PROF. J(OHN) MICHAEL, Psychol, see 11th ed, Phys. & Biol. Vols.

HARRISON, DR. PEGGY ROSINA, b. Bristol, Eng, Mar. 1, 09; U.S. citizen. SPEECH PATHOLOGY. B.A, Southern Methodist, 28; M.A, Southern California, 39, Ph.D.(speech path), 57. Teacher, Mesquite Independent Sch. Dist, 28-30; high sch, Ind, 30-48; instr. speech & speech path, SOUTHERN METHODIST, 48-57, asst. prof. SPEECH PATH, 57-60, ASSOC. PROF, 60-, CHMN. DEPT. SPEECH PATH. & AUDIOL. 65-, DIR. SPEECH & HEARING CLIN, 48- Vis. assoc. prof, col. dent, Baylor, 64. Speech pathologist, Shady Brook Schs, Tex, 57. Consult, Vet. Admin. Hosp, Dallas, 66- Speech & Hearing Asn; Speech Asn. Vocal efficiency, especially resonator adjustments; oro-facial muscle imbalance. Publ: Co-auth, Reference manual for teachers of atypical children, Carnegie Found, 52 & Research on vocal efficiency, Bull. Nat. Asn. Teachers Singing, 59; auth, Presidential address; Tex. Communicologist, 66. Address: Dept. of Speech Pathology & Audiology, Southern Methodist University, Dallas, Tex. 75222.

HARRISON, DR. PRESTON E(RSHELL), b. Bryans Mill, Tex, Aug. 26, 11; m. 40; c. 2. NEUROPSYCHIATRY. B.S, East. Tex. State Teachers Col, 32; A.M, Texas, 36; M.D, Baylor, 41; Sheldon fel, Chicago, 45, Ph.D.(bact. & immunol), 46. Tutor bact, Texas, 35-36; asst, col. med, Baylor, 36-41, instr, 41-43, asst. prof, 43-46, assoc. prof, 46-48, prof, 48-49; private practice, 49-52; physician, BIG SPRING STATE HOSP, 53-54, clin. dir, 54-57, SUPT, 57- Asst, Chicago, 43-45, assoc. & instr, Off. Sci. Res. & Develop, 45-46; resident, sch. psychiat, Menninger Found, 57-58; assoc. clin. prof, col. med, Baylor, 64- Assoc, Herman Hosp. & consult, Methodist Hosp, 47. AAAS; Am. Med. Asn; fel. Psychiat. Asn; Int. Soc. Clin. & Exp. Hypnosis. Alcoholism, phobic reactions, intensive psychotherapy; hypnotherapy; investigative studies in hypnosis; mental hospital administration. Address: Big Spring State Hospital, Big Spring, Tex. 79720.

HARRISON, RICHARD EDES, Geog, Cartog, see 11th ed, Phys. & Biol. Vols.

HARRISON, PROF. ROBERT C(HARLES), Psychol, see 10th ed, Soc. & Behav. Vols.

HARRISON, DR. ROGER, b. Berkeley, Calif, July 1, 30; m. 54. SOCIAL PSYCHOLOGY. A.B, Dartmouth Col, 52; Ph.D.(psychol), California, 56. Staff psychologist, Procter & Gamble Co, 56-59, head personnel res, 59-60; asst. prof. indust. admin. & psychol, Yale, 60-66; prof. dir, Nat. Training Labs, 66-67; CONSULT. TRAINING & ORG. DEVELOP, 67- Fel, Nat. Training Labs, 63. Douglas McGregor Mem. award, 67. Psychol. Asn. Organization development; training in human relations; training for cross-cultural performance; innovation in higher education. Publ: Cognitive change and participation in a sensitivity training laboratory, J. Consult. Psychol, 66; Co-auth, Cross cultural training: an alternative to the university model, 67 & Research on human relations training: design and interpretation, in press, J. Appl. Behav. Sci. Address: 817 Sixth St. S.W, Washington, D.C. 20024.

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HARRISS, PROF. C(LEMENT) LOWELL, b. Fairbury, Nebr, Aug. 2, 12; m. 36; c. 4. ECONOMICS. B.S, Harvard, 34; Chicago, 36-37; Ph.D, Columbia, 40. From instr. to PROF. ECON, COLUMBIA, 38- Sect. head, div. tax res, U.S. Dept. Treas, 41-43, consult. expert, 49; mem. staff, Nat. Bur. Econ. Res; Munic. Finance Study, New York, 51; prof, Stanford, 49-50; lectr, California, 50; Fulbright lectr, Netherlands Sch. Econ, 53-54; Strasbourg, 61-62; vis. prof, Yale, 65; Princeton, 66. Consult, City of New York, 51-55, State, 54-57; N.Y. Tel. Co, 59-; Tax Found, Inc, 61, 63-; Agency Int. Develop, U.S. Dept. State, 66; Temporary State Cmn. Constitutional Convention, N.Y, 67. Mem. adv. bd, Am. Enterprise Inst, 66- U.S.A.A.F, 42-45. Econ. Asn; Finance Asn; Royal Econ. Soc. Public finance; money and banking; real estate; property taxation in cities in relation to urban development and financing of cities; financial policies of national government. Publ: The American economy, 6th ed, 66; auth, American public finance, 8th ed, 65; auth, Money and banking, 2nd ed, 65. Address: Dept. of Economics, Columbia University, 712 Hamilton, New York, N.Y. 10027.

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HARROWER, DR. MOLLY, b. Johannesburg, S.Africa, Jan. 25, 06; nat; div. PSYCHOLOGY. Dipl, London, 28; Ph.D.(psychol), Smith Col, 34. Sr. lectr, psychol, Bedford Col, London, 32-33; dir. students, N.J. Col. Women, Rutgers, 34-37; lectr. psychol, McGill, 37-41; res. assoc. neuropsychiat, Wisconsin, 41-44; RES. & CONSULT. PSYCHOLOGIST, 45- Res. dir, Manhattan Child Center, Tex, 52-54; vis. lectr. & dir. psychol. testing prog, med. sch. Texas, 53-57; prof. clin. psychol. res, med. center, Temple, 57-62; vis. prof, Florida, 67-; Macy, Jr. Found. & Can. Nat. Res. Coun. res. grants; vis. prof, New Sch. Soc. Res; chmn. adv. coun, State Univ, N.Y. Consult, U.S. Dept. State, 47-50; U.S. Dept. Army, 48-; consult. & mem. tech. adv. cmt, Air Surgeon-Gen. Off, 48-51; Children's Bur, D.C, 51. Ed, Am. Lecture Series in Psychol, 45- Am. Psychol. Asn; Psychosomat. Soc; Soc. Proj. Tech; Can. Psychol. Asn; Brit. Psychol. Soc. Group testing methods and new psychological tests; multiple sclerotic patients; perception. Publ: Creative variations in the projective techniques; Practice of clinical psychology; Psychodiagnostic testing: an empirical approach, In: American lectures in psychology, C.C. Thomas. Address: 1040 Park Ave, New York, N.Y. 10028.

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HARSHBARGER, DR. BOYD, Math. statist, see 11th ed, Phys. & Biol. Vols.

HARSHBARGER, DR. RICHARD BENJAMIN, b. Lafayette, Ind. May 6, 34; m. 58; c. 2. ECONOMICS. B.S, Manchester Col, 56; fel, Indiana, 56-58, M.A, 58, Nat. Sci. Found. fel, 59-60, Ph.D.(econ), 64; summer, Case Inst. Tech, 66. Fuels economist, Tenn. Valley Authority, summer, 58; instr. ECON, MANCHESTER COL, 60-63, asst. prof, 63-66, ASSOC. PROF, 66- Econ, Asn. Coal purchases, Tennessee Valley Authority; American philanthropy. Publ: Co-auth, Success of the elementary course: comment, Am. Econ. Rev, 3/61. Address: Dept. of Economics, Manchester College, North Manchester, Ind. 46962.

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market, J. Finance; Hours of labour, In: Encyclopedia Britannica. Address: College of Business, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

HART, PROF. DONN V(ORHIS), b. Anaheim, Calif, Feb. 15, 18; m. 54; c. 1. ANTHROPOLOGY. B.A, California, 41; M.A, Harvard, 42; Fulbright scholar, Philippines, 50-51; D.S.Sc.(anthrop, geog), Syracuse, 54. Mem, Prep. UNESCO Cmn, London & Paris, 46; asst, Syracuse, 47-49; asst. prof. anthrop, Denver, 51-54; Smith-Mundt prof, Philippines, 56-57; res. assoc, Southeast Asia Prog, Yale, 57-58; assoc. prof. ANTHROP. & SOC. SCI, SYRACUSE, 58-65, PROF, 65- Fulbright res. scholars, Philippines, 55-56 & 64-65. U.S.A.A.F, 42-46. Anthrop. Asn; Asn. Asian Studies; Asia Soc. Southeast Asian peasant societies, innovation, folklore, and community development. Publ: Cebuan Filipino dwelling in Caticugan: its construction and cultural aspects; Riddles in Filipino folklore: an anthropological analysis, Syracuse Univ, 64; co-auth, Southeast Asian birth customs, Taplinger, New Haven, 65. Address: Dept. of Anthropology, Syracuse University, Syracuse, N.Y. 13210.

HART, PROF. HENRY C(OWLES), b. Lucknow, India, Nov. 17, 16; nat; m. 39; c. 2. POLITICAL SCIENCE. B.A, Vanderbilt, 36; M.A, Wisconsin, 47, Ph.D, 50. Training specialist, Tenn. Valley Authority, 36-43; instr. POLIT. SCI, WISCONSIN, 48-50, asst. prof, 50-55, assoc. prof, 55-59, PROF, 59-, CHMN. DEPT. INDIAN STUDIES, 66-, dir. Indian lang. & area center, 60-61. Fulbright lectr, India, 52-53; Ford Found. res. fel, 53-54. Consult, Dept. Health, Ed. & Welfare, 67- U.S.A.A.F, 43-46. Polit. Sci. Asn; Asn. Asian Studies. Comparative study of political institutions and loyalties of India; politics of river basin developments; American political theories. Publ: New India's rivers; Dark Missouri; Campus India. Address: Dept. of Political Science, North Hall, University of Wisconsin, Madison, Wis. 53706.

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HART, PROF. HORNELL, Sociol, see 10th ed, Soc. & Behav. Vols, deceased 67.

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HART, DR. JIM ALLEE, b. Crowell, Tex, Apr. 9, 14; m. 48. JOURNALISM. B.A, Tex. Tech. Coll, 34, M.A, 36; Ph.D.(jour), Univ. Mo, 59. Teacher jour. & Eng, Crane High Sch, Tex, 35-40; assoc. prof. jour. & dir. pub. inform, Tarleton State Col, 46-54; asst. prof. jour. & news ed, Miss. State Col. Women, 54-55; instr. JOUR, North. Ill. Univ, 55-57; ASSOC. PROF, SCH. JOUR, Ohio, 59-65; SOUTHERN ILLINOIS, 65- U.S.A, 41-45; Nat. Guard, 48-50, Capt. Asn. Ed. Jour. History of journalism; content analysis of news media. Publ: History of the St. Louis Globe-Democrat, Univ. Missouri, 61; James Redpath, Missouri correspondent, Mo. Hist. Rev, 10/62; Foreign news in U.S. and English daily newspapers, Jour. Quart, autumn 66. Address: 202 Orchard Dr, Carbondale, Ill. 62901.

HART, PROF. J(OHN) FRASER, b. Staunton, Va, Apr. 5, 24; m. 49; c. 2. GEOGRAPHY. A.B, Emory, 43; M.A, Northwestern, 49, Ph.D, 50. Asst. prof. GEOG, Georgia, 49-53, assoc. prof, 54-55; asst. prof, Indiana, 55-58, acting chmn. dept, 56-58, assoc. prof, 58-67; PROF, MINNESOTA, MINNEAPOLIS, 67- Fulbright lectr, Lille & Durham, 60; vis. lectr, Natal, 67. Mem, Cmn. Col. Geog, 66-69. U.S.N.R, 44-46, 55, Lt. Comdr. Asn. Am. Geog.(exec. secy, 65-66); Am. Geog. Soc; Royal Geog. Soc; fel. Royal Scottish Geog. Soc; Inst. Brit. Geog. Geography of Britain and United States; geography of population and settlement. Publ: British moorlands; Geography of manure; The Southeastern United States, Van Nostrand, 67. Address: Dept. of Geography, University of Minnesota, Minneapolis, Minn. 55455.

HART, JOHN N, b. Chesterhill, Ohio, Nov. 30, 09; m. 33; c. 4. ECONOMICS. B.S, Ohio State, 31, M.S, 32. Instr. econ, Ohio State, 39-43; economist, B.F. GOODRICH CO, 45-52, dir. employee rels, 52-57, controller, 57-60, V.PRES. & CONTROLLER, 60- Dir. res, State Dept. Taxation, Ohio, 39-43. U.S.N, 43-45. Econ. Asn; Statist. Asn. Labor relations; economic education; methods of research in the social sciences. Publ: Consumers problems in wartime; Manager of tomorrow, Manage. Address: 298 Aurora St, Hudson, Ohio 44236.

HART, PROF. JOSEPH W(ESLEY), Sociol, see 10th ed, Soc. & Behav. Vols.

HART, PROF. MAURICE I(GNATIUS), b. Boston, Mass, July 12, 04; m. 31; c. 4. FINANCE. A.B, Boston Col, 26, A.M, 27; Columbia, 29-30; Ph.D, Fordham, 30. Mem. faculty, SCH. BUS, FORDHAM, 27-41, PROF. BANKING & FINANCE & CHMN. DEPT, 41- Consult, Nat. Credit & Financial Mgt. Asn. Econ. Asn; Finance Asn. Constitutional and international law; finance and business forecasting; banking. Address: Dept. of Finance, School of Business Administration, Fordham University, Rose Hill Campus, Bronx, N.Y. 10458.

HART, DR. ORSON H(ENRY), b. Hartford, Conn, Feb. 22, 13; m. 42; c. 2. ECONOMICS. B.A, Trinity Col.(Conn), 35; Ph.D, Yale, 46. Head, rubber raw mat. sect, Off. Price Admin, 41-43; security analyst, Lionel D. Edie & Co, 43-48; res. assoc, Life Ins. Asn. Am, 48-56; DIR. ECON. STUDIES, N.Y. LIFE INS. CO, 56-, V.PRES, 66- Econ. Asn; Acad. Polit. Sci; Finance Asn. Investments and capital markets; money and banking. Address: Indian Waters Dr, New Canaan, Conn. 06840.

HARTE, THOMAS J, C.Ss.R, b. Ireland, June 27, 14; nat. SOCIOLOGY. A.B, Mt. St. Alphonsus Sem, 42; M.A, Catholic Univ, 44, Ph.D.(sociol), 47. Instr. SOCIOL, CATHOLIC UNIV, 47-51, asst. prof, 51-56, assoc. prof, 56-63, PROF, 63- U.S. Pub. Health Serv. res. grant, 56-62; research, Voc. Rehab. Admin, 62-67, teaching grant & trainee, 63-68; follow-up studies of off. manpower, automation & training trainees, U.S. Labor Dept, 65-66, spec. consult, off. manpower policy, eval. & res, 65-67; research, Nat. Insts. Health, 65-68. Sociol. Asn. Sociology of religion; attitudes and opinions; race relations. Publ: Social origins of the Brandywine population, Phylon, 63; co-auth, Interaction of deaf and hearing in Frederick, Md, 64 & Follow-up study of graduates of experimental and demonstration projects in the Washington, D.C. area, 1966-1967, 67, Bur. Soc. Res, Catholic Univ. Address: Bureau of Social Research, Catholic University of America, Washington, D.C. 20017.

HARTER, PROF. D(ONALD) LINCOLN, b. Kenney, Ill, Feb. 3, 09. POLITICAL SCIENCE. A.B, Iowa, 30, Ph.D, 42; A.M, Columbia, 32. Asst. prof. polit. sci, Missouri, 42-43; Pennsylvania, 46-57; V.Chancellor, Buffalo, 57-60; prof. polit. sci. & v.pres, Wagner Col, 60-64; asst. to pres, Westminster Choir Col, 64-66; CHMN. DIV. LIBERAL ARTS, COL. INS, 67- Lectr, Swarthmore Col, 46-47. U.S.N.R, 43-46, Lt. Comdr. Government and foreign policy of the Soviet Union; public opinion and propaganda. Publ: Co-auth, Propaganda handbook. Address: College of Insurance, 150 William St, New York, N.Y. 10038.

HARTER, DR. H(ARMAN) LEON, Math. Statist, see 11th ed, Phys. & Biol. Vols.

HARTER, PROF. L(AFAYETTE) G(EORGE), JR, b. Des Moines, Iowa, May 28, 18; m. 50; c. 3. ECONOMICS. B.A, Antioch Col, 41; M.A, Stanford, 48, Ph.D.(econ), 60. Asst. ECON, Stanford, 46-48, 56-57; instr, Menlo Col, 48-50; Col. of Marin, 50-56, 57-60; asst. prof, OREGON STATE, 60-65, PROF, 65-, CHMN. DEPT, 67- Arbitrator, Fed. Mediation & Conciliation Serv, 66- U.S.N.R, 41-46, Res, 46-, Lt. Comdr. Econ. Asn; Indust. Rels. Res. Asn. Labor relations and economics; San Francisco culinary union. Publ: John R. Commons: his assault on laissez-faire; co-auth, Labor in America, Oregon State Univ, 67. Address: Dept. of Economics, Oregon State University, Corvallis, Ore. 97331.

HARTER, DR. M. RUSSELL, b. Honolulu, Hawaii, May 13, 40; m. 62; c. 1. PHYSIOLOGICAL PSYCHOLOGY. B.A, San Diego State Col, 61, M.A, 64; NASA fel. & Ph.D.(psychol), Arizona, 66. Nat. Acad. Sci-Nat. Res. Coun. res. psychologist, Naval Electronics Lab, 66-67; ASST. PROF. PSYCHOL, Miami (Fla), 67-68; NORTH CAROLINA, GREENSBORO, 68- Nat. Sci. Found. instnl. grant & Nat. Inst. Health biomed. sci. res. grant, 67-68. Relationships between various perceptual and motor processes and central and peripheral physiological events in humans, specifically, effects of temporal and attentional factors. Publ: Co-auth, Perceived number and evoked cortical potentials, Science, 4/67; auth, Effects of carbon dioxide on the electroencephalogram and reaction time of humans, Electroencephalog. & Clin. Neurophysiol, 11/67; Excitability cycles and psychological moments: a review of two hypotheses of central intermittency in perception, Psychol. Bull, 67. Address: Dept. of Psychology, University of North Carolina, Greensboro, N.C. 27412.

HARTER, PROF. RICHARD STEPHEN, b. Mattoon, Ill, Feb. 13, 99; m. 42. PSYCHOLOGY. B.A, Ind. Cent. Col, 26; M.A, Indiana, 27, Ph.D.(psychol), 29. Instr. PSYCHOL, TEMPLE, 28-35, from asst. prof. to prof, 35-66, EMER. PROF, 66- Psychol. Asn. Physiological psychology; errors made in spelling; structure of associative capacity; individual differences involved in associative capacity. Address: Dept. of Psychology, Temple University, Philadelphia, Pa. 19122.

HARTFORD, PROF. MARGARET E(LIZABETH), b. Cleveland, Ohio, Dec. 12, 17. SOCIAL SCIENCE. A.B, Ohio, 40; M.Sc.S.A, Pittsburgh, 44; Ph.D.(soc. work), Chicago, 62. Prog. consult, Am. Serv. Inst, Allegheny County, 44-48, exec. dir, 48-50; asst. prof. SOC. WORK, CASE WESTERN RESERVE, 50-57, assoc. prof, 57-64, PROF. & CHMN. GROUP WORK, 64-, dir. inst. intergroup rels, 52-54. Lectr, sch. soc. serv. admin, Chicago, summer 65. Proj. dir, Nat. Inst. Ment. Health grant; consult. Acad. Relig. & Ment. Health; Nat. Asn. Soc. Workers; Coun. Soc. Work Ed; Acad. Cert. Soc. Workers. Intergroup, intercultural and interracial relations; social group work; application of social science theory to social work practice. Publ: A frame of reference for social group worker, 65 & Trends in development of social group work theory and practice, 66, Nat. Asn. Soc. Work, Teaching of group work in class & field, Coun. Soc. Work Ed, 67. Address: 2035 Abington Rd, Cleveland, Ohio 44106.

HARTIGAN, DR. JOHN A, b. Sydney, Australia, July 2, 37; m. 59; c. 3. MATHEMATICAL STATISTICS. B.Sc, Sydney, 59, M.Sc, 60; Ph.D.(math. statist), Princeton, 62. Instr. math, Princeton, 62-63; vis. lectr. statist, Cambridge, 63-64; asst. prof, PRINCETON, 64-66, STATIST, 66-67, ASSOC. PROF. & ASST. CHMN. DEPT, 67- Inst. Math. Statist; Royal Statist. Soc. Statistical inference, similarity principles, error analysis. Publ: Invariant prior distributions, 64 & The asymptotically unbiased prior, 65, Ann. Math. Statist; Estimation by ranking parameters, J. Royal Statist. Soc, 66. Address: Dept. of Statistics, Fine Hall, Princeton University, Princeton, N.J. 08540.

HARTKEMEIER, DR. HARRY P(ELLE), Statist, see 11th ed, Phys. & Biol. Vols.

HARTLE, PROF. DONALD DEAN, b. Puente, Calif, Aug. 1, 23; m. 57. ANTHROPOLOGY. B.A, New Mexico, 49; fel, Indiana, 50; Columbia, 54-55; Ph.D, Columbia, 60. Archeologist, North. Plains, Smithsonian Inst, 50-53;

instr. anthrop, Hunter Col, 54-60; asst. prof. American Univ, 60-63; sr. lectr. ARCHAEOL, NIGERIA, 63-65, asst. prof, 65-66, PROF, 66-, faculty res. grant, 64-65. Archeologist, State Mus, N.J, 55-56; Nat. Sci. Found. grant archaeol. surv, East. Nigeria, 64-68; Nat. Geog. Soc-Univ. Nigeria archaeol. surv, Cameroon, 67-68; sr. res. assoc, Ibadan, 68- Mem, bur. Am. ethnol, Smithsonian Inst. U.S.A, 43-45. Soc. Am. Archaeol; fel. Anthrop. Asn; Hist. Soc. Nigeria; Hist. Soc. Ghana. Archeology of the northern Great Plains and Middle Atlantic states; musicology; physical anthropology; archaeology of West Africa, especially Nigeria. Publ: Archaeology and the non-professional; An archaeological survey in Eastern Nigeria, W.Africa Archaeol. Newsletter, 5/65; Archaeology of Eastern Nigeria, Nigeria Mag, 6/67. Address: Dept. of Archaeology, University of Nigeria, Nusukka, Eastern Nigeria.

HARTLEY, DEAN EUGENE L(EONARD), b. New York, N.Y, Jan. 16, 12; m. 35; c. 2. PSYCHOLOGY. A.B, Columbia, 32, A.M, 33, Soc. Sci. Res. Coun. fel, 35-36, Ph.D.(psychol), 36. State supvr. nursery sch. & parent ed. proj, Works Progress Admin, 36-38; res. assoc, Columbia, 38-39; from instr. to prof. psychol, City Col. New York, 36-69; DEAN COL. COMMUNITY SCI, WISCONSIN, GREEN BAY, 68- Sr. info. res. analyst, Off. War Intel, 42-44; proj. dir, Brown, 44-45; res. dir; Res. Inst. Am. Jewish Ed, 47-48; res. assoc, bur. appl. soc. res, Columbia, 51-52; sr. specialist, East-West Center, Univ. Hawaii, 63-64; Erskine vis. fel, Univ. Canterbury, summer, 67. Consult, Carnegie Corp, 39-40; U.S. Pub. Health Serv, 52-62. U.S.A.F.R, 50-57; U.S.P.H.S.R, 57-, Sr. Scientist. Psychol. Asn; Sociol. Asn; Asn. Pub. Opinion Res; Pub. Health Asn; Anthrop. Asn; Asn. Group Psychoanal. & Process; Polynesian Soc. Communication; interpersonal relations; social attitudes. Publ: Problems in prejudice; co-auth, Fundamentals of social psychology; co-ed, Casebook in social processes. Address: University of Wisconsin, P.O. Box 834, Green Bay, Wis. 54305.

HARTLEY, DR. H(ERMAN) O(TTO), Statist, see Suppl. IV to 11th ed, Phys. & Biol. Vols.

HARTLEY, DR. JOSEPH ROBERT, b. Portland, Ind, June 25, 31; m. 51; c. 3. BUSINESS ADMINISTRATION & ECONOMICS. B.S, Indiana, 53, M.B.A, 54, D.B.A.(econ), 57. Res. assoc. bus. & econ, INDIANA, 55-56, asst. prof. BUS. ADMIN, 57-59, assoc. prof, 59-63, PROF, 63-, ASSOC. DEAN UNIV. FACULTIES ADMIN, 64- Transportation analyst econ. planning, Ministry Pub. Works, Colombia, 59; assoc. res. dir, Ind. Post High Sch. Ed. Study Cmn, 62; res. assoc, Ford Found. study, Pittsburgh, 65-66. Consult. economist, Harland Bartholomew Assocs, 58; Ind. Port Cmn, 58-61; Arthur D. Little, 59; Ind. Airport Cmn, 61; Am. Waterways Opers. Asn, 61-63; Tennessee-Tombigbee Waterway Develop. Authority, 61-67; Trinity River Improv. Asn, Tex, 62-64. U.S.A.F, 56-57, 1st Lt. Econ. Asn; Regional Sci. Asn; Soc. Traffic & Transportation. Economic planning and effects of transport routes, especially water transport routes and facilities; industrial logistics management; development and administration of higher educational systems and institutions. Publ: The effects of the St. Lawrence seaway on grain movements, Bur. Bus. Res, Indiana Univ, 57; co-auth, Programa de desarrollo económico del Valle del Magdalena y norte de Colombia, Ministry Pub. Works, Colombia, 60; The University of Pittsburgh: a selective review with proposals for future paths, Allegheny Conf. Community Develop, 66. Address: Office of Vice President & Dean of Faculties, 135 Bryan Hall, Indiana University, Bloomington, Ind. 47401.

HARTLEY, PROF. RAYMOND E(LLIS), JR, b. Pittsburgh, Pa, Dec. 4, 17; m. 47. PSYCHOLOGY. B.A, Kansas, 42, M.A, 47; Ph.D.(psychol), Chicago, 52. Instr, PSYCHOL, Miami (Fla), 52-54, asst. prof, 54-60, assoc. prof, 62-67, chmn. dept, 61-67; PROF, MEMPHIS STATE, 67- Nat. Insts. Health fel, 60-61. U.S.A.A.F, 42-45, Capt. AAAS; Psychol. Asn. Perception; field theory in psychology; factor analysis; cognitive learning theory; philosophy of science; measurement theory. Address: Dept. of Psychology, Memphis State University, Memphis, Tenn. 38111.

HARTLEY, ROBERT W(ILLARD), b. Dayton, Ohio, Mar. 24, 11; m. 41. INTERNATIONAL RELATIONS. B.Arch.E, Ohio State, 33. With Nat. Resources Planning Bd, 35-43; U.S. Bur. Budget, 43-44; U.S. Dept. State, 44-46; BROOKINGS INSTN, 46-50, mem. sr. staff, 50-57, V.PRES, 57- Ed, Current Develop. U.S. For. Policy, 47-52. National resources development. Publ: America's capital requirements, 1946-1960. Address: Brookings Institution, 1775 Massachusetts Ave. N.W, Washington, D.C. 20036.

HARTLEY, PROF. R(UTH) E(DITH), b. New York, N.Y, May 16, 10; m. 35; c. 2. PSYCHOLOGY. B.A, Cornell, 30; M.A, Columbia, 32, dipl, 40, Ph.D. (ed. psychol), 44. Asst. regional supvr, Bur. Child Develop. & Parent Ed, 36-37; psychologist, Family Serv. Soc, 39; instr. psychol, City Col. New York, 44, 46-47, vis. prof, 54-65, proj. dir, reference groups, 55-58, concepts of womens roles, 55-61; instr, Brooklyn Col, 45-46; prin. investr, ment. health proj, Caroline Zachry Inst, 47-49, in-serv. training pre-sch. teachers, 49-50; PROF. HUMAN DEVELOP, Hawaii, 66-68; WISCONSIN, GREEN BAY, 68- Assoc. prof, Long Island, 62-63; vis. colleague, Hawaii, 63-64; evaluator, res. found, City Univ. New York, 66-67. Staff psychologist, Free Synagogue Child Adoption Cmt, 47-49; sr. res. assoc, for. physicians training study, Inst. Int. Ed, 62-63; res. dir, Center Urban Ed, 66-67. Consult, Columbia Broadcasting Syst, 63-64; Joint Cmt. Res. Children & TV, 65-66. Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Fel. Psychol. Asn; Soc. Res. Child Develop. Social and developmental psychology; mental health; sex-roles. Publ: Co-auth, Complete book of children's play, Fundamentals of social psychology & Understanding children's play. Address: Dept. of Human Development, University of Wisconsin, Green Bay, Wis. 54302.

HARTLEY, DR. WYNONA SMUTZ, b. Iowa City, Iowa, Aug. 6, 27. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Iowa, 48, M.A, 51, Danforth grant, 58-59, Ph.D.(sociol, soc. psychol), 61. Instr. sociol, Iowa Wesleyan Col, 52-55, asst. prof, 55-59, assoc. prof, 59-61, head dept, 55-61; res. specialist, div. spec. servs, Iowa, 61-62; SR. RESEARCHER, EPIDEMIOL. FIELD STA, GREATER KANSAS CITY MENT. HEALTH FOUND, 67- Sociol. Asn. Self theory and perception and definition of other social objects; consensus and social structure; mental health and community organization. Publ: Co-auth, Self conception and ward behavior in two mental hospitals, Sociometry, 6/61; auth, The consensual definition of social objects, Sociol. Quart, 4/62; contrib, Self-conception & Ward behavior in two psychiatric hospitals, In: Symbolic interaction: a reader in social psychol, Allyn & Bacon, 66. Address: 1000 W. 100th St. Terr, Kansas City, Mo. 64114.

HARTMAN, DR. A. ARTHUR, b. Chicago, Ill, Aug. 11, 09; m. 37; c. 2. PSYCHOLOGY. B.S, Lewis Inst, 32; M.S, Chicago, 36, Ph.D, 49. Psychologist, State Inst. Juvenile Res. & Div. Criminologist, Ill, 35-40; chief psychologist, Cook County Juvenile Court, 40-42, 46-47; res. assoc, Chicago, 49; from asst. prof. to assoc. prof. clin. psychol, Boston, 49-51; DIR. PSYCHOL. & RES, PSYCHIAT. INST, CIRCUIT COURT CHICAGO, 51- Spec. exam, State Dept. Civil Serv, Mass, 49-51. Consult, Vet. Admin, 49-51; McMurry Co, 52-; Peace Corps, 62-63. Dipl, Am. Bd. Exam. Prfnl. Psychol, 47. U.S.A, 42-46, Maj. Psychol. Asn. Criminal behavior; personality deviations; projective tests; personnel appraisal. Publ: Experimental examination of the thematic apperception technique in clinical diagnosis, Psychol. Monogr; Criminal aliases, J. Psychol; Clinical psychologist in a municipal court, Surv. Clin. Practice Psychol. Address: Psychiatric Institute, Room 1001, 1121 S. State St, Chicago, Ill. 60605.

HARTMAN, DR. ALAN M, b. Chicago, Ill, May 24, 32; m. 58; c. 2. PSYCHOLOGY. B.A, San Diego State Col, 54; M.S, Washington State, 57, Ph.D. (psychol), 60. Res. psychologist, U.S. Vet. Admin, 60-63; asst. prof. PSYCHOL, IDAHO STATE, 63-65, ASSOC. PROF, 65- Theodore Roosevelt Mem. award, 65. AAAS; Psychol. Asn; Sigma Xi (secy, 65-66). Physiological and comparative psychology; psychopharmacology. Publ: Co-auth, Mescaline, lysergic acid and psilocybin effect on color vision, Comprehensive Psychol, 62; auth, Effect of reduction in size distance invariance, Am. J. Psychiat, 63; co-auth, Effect of electroshock and trypan red on blood-brain-barrier and response retention in rats, Nervous & Ment. Diseases, 65. Address: Dept. of Psychology, Idaho State University, Pocatello, Idaho 83201.

HARTMAN, DR. BERNARD JAMES, b. Beech Grove, Ind, Aug. 12, 34; m. 64. PSYCHOLOGY. B.A, Quincy Col, 56; M.S.Ed, Our Lady of the Lake Col, 58; Ph.D.(counseling psychol), Indiana, 63. Clin. psychologist, Cent. State Hosp, Indianapolis, Ind, 58-64; asst. prof. psychol, Quincy Col, 64-66; ASST. PROF. PSYCHOL. ASST. DIR. RES, COUNSELING & TESTING CENTER, SOUTHERN ILLINOIS, 66- Clin. psychol. consult, Ill. Dept. Voc. Rehab, 65-66; Alton State Hosp, 67- Pres, Nat. Found. Res. Clin. Hypnosis, 68. Award, Am. Inst. Hypnosis, 66. U.S.A, 56-58. Psychol. Asn; Soc. Clin. Hypnosis. Clinical and experimental hypnosis and hypnoanalytic techniques. Publ: Hypnoanalysis: an effective approach to marital problems, Brit. J. Med. Hypnotism, summer 66; Hypnotizability as affected by attitudinal and motivational variables, Int. J. Clin. & Exp. Hypnosis, 4/67; An outline of clinical hypnosis, Nat. Found. Res. in Clin. Hypnosis, 68. Address: 634 Mary Drive, East Alton, Ill. 62024.

HARTMAN, DR. BRYCE O(BERLY), b. Detroit, Mich, May 19, 24; m. 45; c. 4. PSYCHOLOGY. B.S, Ohio State, 49, M.A, 51, Ph.D.(psychol), 52. Mem. sr. psychol. prog, U.S. Dept. Army, 50-52, psychophysiologist, med. res. lab, 52-57, asst. chief psychol. dept, 55-57; CHIEF PSYCHOL, NEUROPSYCHIAT. BR, U.S. AIR FORCE SCH. AVIATION MED, 58- Consult, Am. Inst. Res, 51. U.S.N, 42-47. Fel. Psychol. Asn. Proficiency measurement; psychophysiology in the aviation environment; environmental stress and psychobiological states. Publ: Accuracy of throwing hand grenades as a function of weight, share and distance; Beta, a special purpose computer for studies in human control of complex systems; Relation of stimulus and response amplitude to tracking behavior, J. Exp. Psychol. Address: 7615 Quail Run, San Antonio, Tex. 78209.

HARTMAN, DR. ESTHER ANGELA, Guid, Psychol, see 10th ed, Soc. & Behav. Vols.

HARTMAN, DR. FRANK R(ITTENHOUSE), b. Philadelphia, Pa, May 18, 31; m. 56; c. 3. PSYCHOLOGY. B.S, Pa. State, 53, M.S, 55, Carnegie fel, 55-57, Ph.D, 57. Residence halls counsr, Pa. State, 53-55, res. assoc, div. acad. res. & serv, 57-60; asst. prof. PSYCHOL, DICKINSON COL, 60-63, ASSOC. PROF, 63-, CHMN. DEPT. PSYCHOL. & ED, 66- Psychol. Asn. Scaling and measurement; judgment; education and applied learning; aesthetics; communication. Publ: Single and multiple channel learning: a review and a proposed model, Audio-Visual Communication Rev; Filmed physics lectures as supplementary physic instruction, In: Impact of educational television; Critical review of learning theory and communication, Audio-Visual Communication Rev, 63. Address: 1233 N. West St, Carlisle, Pa. 17013.

HARTMAN, PROF. GEORGE EDWARD, b. Newton, Kans, Oct. 20, 26. MARKETING, ECONOMICS. B.S, Kansas, 50; M.B.A, Indiana, 51; Found. Econ. Ed. fel, North Dakota, 52-53; Ph.D, Illinois, 58; J.D, Cincinnati, 64. Instr. MKT, Agr. & Mech. Col, Tex, 51-52; asst. prof, North Dakota, 52-55; CINCINNATI, 58-61, PROF, 61- U.S.A, 45-46, Sgt. Mkt. Asn; Econ. Asn; Bar Asn; Asn. Ed. Int. Bus. Trade regulation activities as they concern marketing; legal concepts as they have developed under Robinson Patman Act. Publ: Effect of executors election on Ohio inheritance tax deductions, Robinson-Patman good faith defense: new departure, revitalization or mere strengthening? & Trading stamps-rights of companies, consumers and transferrees, winter, 64, Cincinnati Law Rev. Address: 310 Bryant, Cincinnati, Ohio 45220.

HARTMAN, DR. JAMES W(INFRED) D(EVON), b. Findlay, Ohio, Feb. 21, 22; m. 44; c. 4. CLINICAL PSYCHOLOGY. B.A, Findlay Col, 46; B.A, Washington (St. Louis), 47, Ph.D, 52. CLIN. PSYCHOLOGIST, WICHITA VET. ADMIN. HOSP, 52-; CLIN. ASSOC. PROF. PSYCHOL, KANSAS, 59- Lectr, Wichita Univ, 52-55. Psychol. consult, Inst. Logopedics, 58-, dir. psychol. dept, Inst. Logopedics, 67- Mem. & chmn. State Bd. Exam. Psychologists, 67-68. U.S.N.R, 42-46, Res, 46-64, Lt. Comdr. Psychol. Asn. Psychotherapy; psychodiagnosis; psychosomatics. Publ: Effect of rapport on test performance; A psychotherapeutic approach toward mentally retarded children; Communicative disorders of the mentally retarded and pseudo retarded. Address: 201 S. Edgemoor, Wichita, Kans. 67218.

HARTMAN, DR. JOHN J(ACOB), b. Kansas City, Mo, June 5, 31; m. 54. SOCIOLOGY. B.S, Southwest Mo. State Col, 61; M.S, Missouri, 63, Ph.D.(sociol), 66. Instr. SOCIOL, Missouri, 64-65; ASST. PROF, IOWA STATE, 65- Gov. Off. Prog. & Planning res. grant, 67. U.S.N, 51-55. Sociol. Asn; Rural Sociol. Soc. Sociological methods and demography, especially methods relating to the use of computers in social data analysis; computer simulation of social process. Publ: Annotated bibliography on simulation in the social sciences, Rural Sociol. Report 53, Iowa State Univ, 5/66 & Iowa population characteristics and changes, Exten. Exp. Sta. Bull, 12/67, Iowa State Univ; Characteristics and structure of Iowa's population, Iowa Farm Sci, 2/68. Address: Dept. of Sociology, Iowa State University, 204 East Hall, Ames, Iowa 50010.

HARTMAN, DR. LAWTON M(ERVALE), III, Physics, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HARTMAN, PROF. L(OYAL) M(ERLYN), b. Osborne, Kans, May 19, 24; m. 46; c. 3. ECONOMICS. B.S, Colorado State, 54, M.S, 56; Ph.D, N.C. State Col, 60. PROF. ECON, COLORADO STATE, 60- U.S.A, 43-45. Agr. Econ. Asn.(award, 61). Regional input-output studies; land and water resource development. Publ: Co-auth, Toward the application of dynamic growth theory to regions, J. Regional Sci; Welfare goals and allocation of water, Land Econ. J; Inter-area relations in agricultural supply, J. Farm Econ. Address: Dept. of Economics & Sociology, Colorado State University, Ft. Collins, Colo. 80521.

HARTMAN, DR. PAUL THEODORE, b. Toledo, Ohio, Dec. 8, 30; m. 50; c. 3. ECONOMICS. B.A, Claremont Cols, 56; M.A, California, 60, Soc. Sci. Res. Coun. fel, 60-61; Ph.D.(econ), California, Berkeley, 66. Res. economist, inst. indust. res, California, 56-60; ASST. PROF. ECON, Stanford, 61-64; California, Berkeley, 64-66; ILLINOIS, URBANA, 66- U.S.A, 48-52. Econ. Asn; Indust. Rels. Res. Asn. Economics of labor; interindustry economics; economic development. Publ: Co-auth, Changing patterns of industrial conflict; auth, Union work rules: theoretical analysis, Indust. Rels. Res. Asn. Proc, 67. Address: Dept. of Economics, University of Illinois, Urbana, Ill. 61801.

HARTMAN, DR. THOMAS F(RED), b. Oshkosh, Wis, July 17, 32; m. 57; c. 2. PSYCHOLOGY, EDUCATION. B.S, Wisconsin, 57, M.S, 59, Ph.D.(psychol, statist), 62. Mem. res. staff, research center, Int. Bus. Mach. Corp, N.Y, 61-63; asst. prof. psychol, Pa. State, 63-64; MGR. COMPUT. ASSISTED INSTR, instr. systs. develop. dept, INT. BUS. MACH. CORP, 65-66, RES. DIV, 67- Consult, res. div, Int. Bus. Mach. Corp, 63-64. Field reader, U.S. Off. Ed, 63-64. Psychonomic Soc; Research Soc. Human learning; statistics; tests and measurement. Publ: Dynamic transfer, elective generalization, and semantic conditioning, In: Classical conditioning: a symposium, 65; co-auth, Effects of pattern of reinforcement and verbal information on acquisition, extinction and spontaneous recovery of the eyelid CR, 61 & auth, Semantic transfer of the differential conditioned eyelid response from words to objects, 63, J. Exp. Psychol. Address: Thomas J. Watson Research Center, International Business Machines Corp, P.O. Box 218, Yorktown Heights, N.Y. 10598.

HARTMAN, PROF. WILLIAM E(LLIS), b. Meadville, Pa, Feb. 17, 19; m. 44; c. 7. SOCIOLOGY. A.B, Southern California, 47, M.A, 48, Ph.D.(sociol), 50. Instr. sociol. & psychol, El Camino Col, 50-51; from asst. prof. to PROF. SOCIOL, CALIF STATE COL. LONG BEACH, 51-, chmn. dept, 60-63. U.S.A.F, 40-45, 2nd Lt. Sociol. Asn; Nat. Coun. Family Rels; Asn. Marriage Counsr. Social-psychological study of social nudism; socio-economic and psychological characteristics of practising and former nudists; motivations and sexual behavior of practising nudists. Address: Dept. of Sociology, California State College at Long Beach, Long Beach, Calif. 90804.

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HARTMANN, DR. ERNEST LOUIS, b. Vienna, Austria, Feb. 25, 34; U.S. citizen; m. 61; c. 1. PSYCHIATRY. B.A, Chicago, 52; M.D, Yale, 58. Intern med, Bronx Munic. Hosp. Center, 59-60; res. PSYCHIAT, Mass. Ment. Health Center, 60-62; clin. assoc, Nat. Inst. Ment. Health, 62-64; ASST. PROF, SCH. MED, TUFTS, 64-; DIR. SLEEP & DREAM LAB, BOSTON STATE HOSP, 64- Career investr, Nat. Inst. Ment. Health, 64- U.S.P.H.S, 62-64, Surg. AAAS; Psychiat. Asn; Asn. Psychophysiol. Study Sleep; Soc. Psychophysiol. Res. Sleep and dreaming; psychophysiological relationships; mania; psychoanalytic research. Publ: The biology of dreaming, C.C. Thomas, 67; co-auth, Adolescents in a mental hospital, Grune, 68; auth, The D-state, New Eng. J. Med, 65. Address: Boston State Hospital, 591 Morton St, Boston, Mass. 02124.

HARTMANN, PROF. FREDERICK H, b. New York, N.Y, July 6, 22; m. 43; c. 3. INTERNATIONAL RELATIONS. A.B, California, 43; A.M, Princeton, 48, Ph.D, 49; Swiss Govt. award, Inst. Int. Studies, 47-48. Instr. POLIT. SCI, Princeton, 46-47; asst. prof, Florida, 48-52, assoc. prof, 52-56, prof, 56-66; MAHAN PROF. & SPEC. ADV. TO PRES, U.S. NAVAL WAR COL, 66- Fulbright prof, Bonn, 53-54; Rockefeller grant, 59. Mem. nat. selection cmt, Fulbright Prog, 54-56. U.S.N.R, 44-45. Polit. Sci. Asn. Publ: Germany between east and west, 65; The relations of nations, 3rd ed. 67; World in crisis, 3rd ed. 67. Address: U.S. Naval War College, Newport, R.I. 02840.

HARTMANN, PROF. WALTER, b. Chemnitz, Germany, Oct. 17, 22; nat; m. 47; c. 3. PSYCHOLOGY, SOCIOLOGY. M.A, Chicago, 49. Asst. teacher, Prep. Schs, Eng, 41-45; counsr. & teacher rehab, Refugee Orgn, Eng, 45-46; instr, Oxford Acad, N.J, 46-48; asst. character develop, cmt. human develop, Chicago, 49-50; head psychol. dept, State Hosp, East Moline, Ill, 50-51; res. assoc. soc. psychol, Illinois, 51-53; dir. ed, Reform Jewish Congregations, D.C. & Mo, 54-57; from instr. to ASST. PROF. PSYCHOL, PURDUE, 57- Private practice, 59- Psychol. Asn. Human development; individual and culture-religion; semantics; hypnosis; research methodology. Publ: Racial differences: inherited or environmental, Perspectives Biol. & Med; co-auth, Note on negative reliabilities, Ed. & Psychol. Measurement & Hypnosis in the management of a case of placenta abruptio, Int. J. Clin. & Exp. Hypnosis. Address: 7844 Chestnut Ave, Hammond, Ind. 46324.

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HARTOCOLLIS, DR. PETER, b. Athens, Greece, Nov. 29, 22; m. 53; c. 3. PSYCHOLOGY, PSYCHIATRY. B.A, Clark, 49; M.A, Mich. State 51, Ph.D. (psychol), 54; M.D, Lausanne, 55. Intern, St. Mary's Hosp, Waterbury, Conn, 56-57; resident psychiat, sch. med. Kansas, 57; Vet. Admin. Hosp, Topeka, Kans, 57-59; STAFF PSYCHIATRIST, C.F. MENNINGER MEM. HOSP, TOPEKA, 60, CHIEF. CLIN. SERV. PSYCHIAT, 66- Guest lectr, Danciger Inst. Health Sci, Mo, 65-67; lectr, Menninger Sch. Psychiat, 67- Consult, alcoholic treatment prog, Vet. Admin. Hosp, Topeka, 63-; State Hosp, Topeka, 64- Am. Med. Asn; Psychiat. Asn; Psychol. Asn. Psychoanalytic theory and treatment; hospital psychiatry; research in alcoholism. Publ: Drunkenness and suggestion: an experiment with intravenous alcohol, Quart. J. Studies Alcoholism, 23: 376-380; Hospital romances: some vicissitudes of transference, Bull, Menninger Clin, 28: 62-71; Psychotherapy and the alcoholic, In: Opportunities and limitations in treatment of alcoholics, C.C. Thomas, 67. Address: Menninger Foundation, Topeka, Kans. 66601.

HARTON, DR. JOHN JAMES, b. Conway, Ark, Feb. 24, 00; m. 26; c. 4. PSYCHOLOGY. A.B, Hendrix Col, 20; M.A, Peabody Col, 32; Ph.D.(psychol), Duke, 36. Prin, supt. & teacher, schs, Ark, 28-34; asst. psychol, Duke, 35-36; instr. ed, Mary Baldwin Col, 36-37; assoc. prof. psychol. & ed, Ariz. State Teachers Col, Flagstaff, 37-41; prof. ed, Fresno State Col, 41-66; PSYCHOLOGIST & COORDINATOR PUPIL PERSONNEL SERV, OFF. SUPT. FRESNO COUNTY DEPT. ED, 66- Psychol. consult, Fresno County Schs, 48-66. Mem, Coun. Except. Children. U.S.A, 17-19. Psychol. Asn. Time estimation; relation of effort persistence and types of goal organization on the estimation of time. Address: 661 E. Terrace Ave, Fresno, Calif. 93704.

HARTRICK, DR. WADE (JAMES), b. Sadorus, Ill, Aug. 29, 08. BUSINESS ADMINISTRATION. B.A, Tex. Tech. Col, 29; M.B.A, Texas, 41, Ph.D, 49. PROF. BUS. ADMIN, TEXAS, EL PASO, 44-, ASST. TO DEAN LIBERAL ARTS, 65-, chmn. dept, 44-55. Mkt. Asn. Marketing. Address: School of Business Administration, University of Texas, El Paso, Tex. 79902.

HARTSHORNE, PROF. RICHARD, b. Kittanning, Pa, Dec. 12, 99; m. 28; c. 3. GEOGRAPHY. B.S, Princeton, 20; Ph.D.(geog), Chicago, 24. Investr, Chicago River Bridge Surv, 23-24; instr. GEOG, Minnesota, 24-27, asst. prof, 27-37, assoc. prof, 37-40; WISCONSIN, MADISON, 40-41, PROF, 41-, chmn. dept, 50-54. Soc. Sci. Res. Coun. fel, 31-32; chief geog. div, res. & anal. br, Off. Strategic Servs, 41-42, asst. chief in charge res, 42-45; mem. faculty, Nat. War Col, 49; vis. prof, Pa. State, 65. V.chmn. geog, div. geol. & geog, Nat. Res. Coun, 40-42. U.S.A, 18. Asn. Am. Geog.(pres, 49; award, 59); Am. Geog. Soc.(Daly Medal, 60). Economic geography, particularly of manufacturing; political geography; history and philosophy of geography. Publ: Nature of geography; Perspective on the nature of geography. Address: Dept. of Geography, University of Wisconsin, Madison, Wis. 53706.

HARTSON, PROF. L(OUIS) D(UNTON), Psychol, see 10th ed, Soc. & Behav. Vols.

HARTSTEIN, DR. JACOB I, b. Stary Sambor, Austria, Sept. 10, 12; nat; m. 42; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Yeshiva, 32, hon. L.H.D, 62; M.S, City Col. New York, 33; M.A, Columbia, 36; Ph.D, N.Y. Univ, 45. Asst. prof. ed. & psychol, Long Island, 41-45, acting head dept, 44-45, prof. & head dept, 45-60, chmn. grad. div, 49-51, dir. grad. sch, 51-53, dean, 53-60, dean sch. ed, 60-64; PRES, KINGSBOROUGH COMMUNITY COL. & PROF. ED, CITY UNIV. NEW YORK, 64- Asst. prof, grad. schs, Yeshiva, 44-45, prof, 45-53, dir, 45-50, dean, 48-53; supt. schs, Bd. Secular Ed, United Yeshivos, 45-48. Res. consult, human eng. projs, spec. devices center, U.S. Dept. Navy, 55-; consult, U.S. Off. Ed, 67- Mem, Nat. Adv. Cmt. Suppl. Ed. Centers & Serv, 65-67, presiding officer, 66-67. Fel. AAAS; Psychol. Asn; Ed. Res. Asn. Regulatory and supervisory control of education; teacher education; teaching psychology. Publ: State regulatory and supervisory control of higher education in New York; Guide to general psychology; Jews in American history, a resource book for teachers. Address: 1125 Virginia St, Far Rockaway, N.Y. 11691.

HARTUNG, PROF. FRANK E, b. Detroit, Mich, Mar. 2, 08. SOCIOLOGY. A.B, Wayne State, 33; fel, Michigan, 33-34, A.M, 34, Ph.D, 49. From asst. prof. to PROF. SOCIOL, WAYNE STATE, 43- Vis. assoc. prof, Wisconsin, 54-55, 59-60; Martin lectr, Saskatchewan, 62; distinguished vis. prof, Manitoba, 68; summers, vis. prof, Washington (St. Louis), 57; Alberta & Saskatchewan, 58; assoc. prof, Rhode Island, 62, vis. prof, Iowa, 63, San Jose State Col, 66. Chmn. conf. group correctional orgns, Soc. Sci. Res. Coun, 56-57; mem, Moran Inst. Delinquency Crime of N.Y, 57; Juvenile Court Inst, Ore. Juvenile Court Judges Asn, 63; Joint Nat. Cmn. Correctional Manpower & Training, 64- Sociol. Asn; Soc. Study Social Probs; Soc. Criminol. Social psychology, theory and criminology. Publ: Crime, law and society; ed, Readings in criminology. Address: Dept. of Sociology & Anthropology, Wayne State University, Detroit, Mich. 48202.

HARTUP, PROF. WILLARD W(ERT), b. Fremont, Ohio, Oct. 27, 27; m. 50; c. 2. CHILD PSYCHOLOGY. B.S, Ohio State, 50, M.A, 51; Ed.D, Harvard, 55. Asst. prof. psychol, R.I. Col. Ed, 54-55; child welfare res. sta, Iowa, 55-60, assoc. prof, CHILD PSYCHOL, 60-63; INST. CHILD DEVELOP, MINNESOTA, MINNEAPOLIS, 63-64, PROF, 64-, ASSOC. DIR, 67- U.S.A, 45-47. Fel. Psychol. Asn; Soc. Res. Child Develop. Personality and social development of young children. Publ: Nurturance and nurturance-withdrawal in relation to dependency behavior in preschool children, Child Develop, 29: 191-201; Friendship status and the effectiveness of peers as reinforcing agents, J. Exp. Child. Psychol, 1: 154-162; co-auth, The young child: reviews of research, Nat. Asn. Ed. Young Children, 67. Address: Institute of Child Development, University of Minnesota, Minneapolis, Minn. 55455.

HARTWELL, DR. ROBERT MILTON, Chinese Hist. & Lit, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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HARTZO, PROF. S(OLLY) A(LBERT), b. Monterey, Tex, June 30, 97; m. 24; c. 2. POLITICAL SCIENCE. A.B, Washington & Lee, 21; A.M, Columbia, 25; scholar, Chicago, 29-30, summers, 30-32. Instr. & asst. prof, Washington & Lee, 21-24; asst. prof. POLIT. SCI, North Dakota, 25-29; from assoc. prof. to prof, LAKE FOREST COL, 30-62, EMER. PROF, 62- Assoc. prof, Carthage Col, 65-67. U.S.A, 18, 2nd Lt. Polit. Sci. Asn; Acad. Polit. Sci. International politics and relations; national and international public law. Address: Dept. of Government, Lake Forest College, Lake Forest, Ill. 60044.

HARVEY, BARTLETT, b. Brookline, Mass, Dec. 24, 19; m. 42; c. 4. ECONOMICS. A.B, Amherst Col, 42; M.A, Harvard, 47, M.P.A, 48. Econ. analyst & prog. officer, Econ. Coop. Admin, France, 49-50; Econ. Coop. Admin. & Mutual Security Admin, Netherlands, 50-52; Mutual Security Admin. & For. Opers. Admin, Italy, 52-55; fiscal economist, U.S. Bur. Budget, 55-60, asst. chief. int. div, 60-61; chief econ. prog. div, AGENCY INT. DEVELOP, 62-64, dep. asst. adminstr. prog, 64-66, spec. asst. to adminstr, 66-67, DEP. DIR. MISSION TO TURKEY, 67- U.S.A, 43-46, Lt. Econ. Asn; Soc. Int. Develop. Economic development; national income. Address: 902 Turkey Run Rd, McLean, Va. 22101.

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HARVEY, DR. EDWARD BURNS, b. Victoria, B.C, Oct. 2, 37; m. 62. SOCIOLOGY. B.A, British Columbia, 63, M.A, 64; Ph.D.(sociol), Princeton, 67. ASST. PROF. SOCIOL, Western Ontario, 66-67; ONT. INST. STUDIES IN ED. & UNIV. TORONTO, 67- Vis. lectr, Western Ontario, 67-68. Consult, Can. Dept. Indian Affairs, 67-68. Sociol. Asn. Sociological analysis of processes of technical and social change in the occupational structures and economic organizations of modern industrial societies. Publ: Some implications of value differentiation in pharmacy, Can. Rev. Sociol. & Anthrop, 2/66; Social change and the jazz musician, Soc. Forces, 9/67; Technology and the structure of organizations, Am. Sociol. Rev, 4/68. Address: Ontario Institute for Studies in Education, 102 Bloor St. W, Toronto 5, Ont, Can.

HARVEY, DR. JAMES C(ARDWELL), b. Italy, Tex, July 15, 25; m. 65; c. 1. POLITICAL SCIENCE. B.A, Southern Methodist, 49; M.A, Texas, 52, Ph.D. (hist), 55; Fulbright scholar, Paris, 52-53; Arizona, 68- Asst. prof. soc. sci, Pan. Am. Col, 54-57; hist, Tex. West. Col, 57-64; ASSOC. PROF, Ft. Lewis Col, 64-65; POLIT. SCI, WESTERN NEW MEXICO, 65-, CHMN. DEPT. HIST. & SOC. SCI, 67- Summers, vis. asst. prof. hist, N.Mex. West. Col, 57 & New Mexico Highlands, 60; Peace Corps lectr, 62. U.S.N.R, 42-46. Hist. Asn; Polit. Sci. Asn. Period of the enlightenment; recent French diplomatic history; Russian history; modern French history and government; American Presidency. Publ: Reapportionment of the New Mexico legislature, 1910-1966, Western New Mexico, 67; French security and the Paris peace conference, 4/67 & The treaty of Versailles and the French parliament, 10/67, Rocky Mt. Soc. Sci. J. Address: Dept. of History & Social Science, Western New Mexico University, Silver City, N.Mex. 88061.

HARVEY, DR. JESSE H, b. Middleton, Ohio, Sept. 14, 18; m. 48; c. 2. PSYCHOLOGY. M.A, California, Los Angeles, 52, Ph.D, 53. Instr. psychol, Fresno State Col, 53-54; sr. staff psychologist, State Penitentiary, Ohio, 54-56; Columbus State Hosp, 56-59; CLIN. PSYCHOLOGIST, METROP. STATE HOSP, NORWALK, 59- U.S.A, 42-45. Psychol. Asn. Clinical and social psychology; group dynamics; therapeutic community; humanistic psychology and religion. Address: 16008 E. Santa Fe St, Whittier, Calif. 90603.

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HARVEY, PROF. LASHLEY G(REY), b. California, Mo, Dec. 18, 00. POLITICAL SCIENCE. A.B, William Jewell Col, 25; A.M, Stanford, 30; Ph.D, Harvard, 42. Asst. prof. & assoc. prof. soc. sci, Adams State Teachers Col, 30-36; asst. prof. govt, New Hampshire, 38-42, exec. secy. bur. govt. res, 39-42; asst. prof. GOVT, BOSTON, 46-47, assoc. prof, 47-49, Maxwell prof. govt. & citizenship, 49-65, assoc. dir. bur. pub. admin, 47-48, acting dir, 48-49, dir, 49-65, acting chmn. dept. govt, 48-49, chmn, 49-56, dir. inst. pub. serv, 50-56, EMER. PROF, 65- Fulbright sr. scholar & lectr, London Sch. Econ. & Polit. Sci, 51-52; mem. UN Pub. Admin. Mission, Turkey, 53-54. U.S.N.R, 42-46, Lt. Comdr. Polit. Sci. Asn. Publ: A handbook of government purchasing, 65; Water: its use and conservation, 66; contrib, Encyclopedia Britannica. Address: P.O. Box 163, Fitzwilliam, N.H. 03447.

HARVEY, PROF. MOSE L(OFLEY), b. Sumter Co, Ga, Nov. 25, 10; m. 31; c. 1. POLITICAL SCIENCE. Ph.B, Emory, 30, fel, 30-31, M.A, 31; Soc. Sci. Res. Coun. fel, 32-33; Ph.D.(Russian hist), California, 38. Instr. hist, Emory, 31-38, asst. prof, 38-41; res. secy. int. rels, Coun. For. Rels, 41-42; chief prog. rev. br, War Prod. Bd, 42-44, dept. dir. for. div, 44-45; dir. bur. int. supply, Civilian Prod. Admin, 45-47; chief div. intel. res. for U.S.S.R, U.S. Dept. State, 47-55; Soviet specialist on faculty, Nat. War Col, 55-56, dir. polit. affairs div, 56-57; mem. policy planning staff, U.S. Dept. State, 57, counsr. & dep. chief mission, U.S. Embassy, Helsinki, 57-59, consul. gen, 59, rep. to Int. Atomic Energy Agency, Vienna, 59-61, mem. policy planning coun, 61-64; PROF. HIST. & DIR. CENTER ADV. INT. STUDIES, MIAMI (FLA), 64- Soc. Sci. Res. Coun. grant-in-aid, U.S.S.R, 39; Rockefeller fel, 41-42; vis. lectr, Hopkins, 47-49, lectr, sch. adv. int. studies, 50- Hist. Asn. Soviet history and international policies; the Soviet economy; world Communist movement. Publ: Eastward course of Russian industry and the war; East-West trade and United States policy, 67. Address: Center for Advanced International Studies, P.O. Box 8123, University of Miami, Coral Gables, Fla. 33124.

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HARVEY, DR. O(SWALD) L(IONEL), b. Cape Town, S.Africa, Dec. 2, 99; U.S. citizen; m. 33; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Witwatersrand, 22; Ed.M, Harvard, 29, Ed.D, 30. Instr. psychol, Pittsburgh, 29-30; adj. prof, Texas, 30-31; instr. ed, Boston, 31-33; research penol, Bur. Soc. Hyg, 33-35; res. statistician, Nat. Youth Admin, 35-36; President's Cmt. on Ed, 36-38; chief res. & statist. apprenticeship, U.S. Dept. Labor, 38-53, chief pubs, 53-60, historian, 61-62; RETIRED. R.A.F, 18-19. Labor economics and history; psychology; statistics. Address: 1004 Kerwin Rd, Silver Spring, Md. 20901.

HARVEY, DEAN RAY F(ORREST), Govt, see 10th ed, Soc. & Behav. Vols, deceased 68.

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HARVEY, DR. RICHARD L(EE), Tudor & Stuart Eng. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HARVEY, DEAN ROBERT O(TTO), b. Bloomington, Ind, Dec. 12, 23; m. 48; c. 2. ECONOMICS. B.S, Indiana, 47, M.B.A, 49, D.B.A, 51. Instr. real estate, Indiana, 49-51, asst. dean sch. bus, 51-53; asst. prof. econ, Illinois, Urbana, 53-56, assoc. prof, 56-57, finance, 57-59, prof, 59-63, dir. exec. develop. center, 61-63; PROF. BUS. & DEAN SCH. BUS. ADMIN. & SCH. INS, CONNECTICUT, 63- Vis. lectr, California, 52-53; chmn. adv. bd, center real estate & urban econ. studies & New Eng. res. applns. center, Connecticut, 66- Conn. dir, New Eng. Coun, 66- U.S.A, 43-46, Lt. Finance Asn. Urban growth and structure; real estate financing; property valuation. Publ: Land uses in Bloomington, Indiana, 1818-1950; Cases in the development and financing of home construction; Economic base and potential study: Springfield and Sangamon County, Illinois. Address: School of Business Administration, University of Connecticut, Storrs, Conn. 06268.

HARVEY, DR. W(ALTER) B(ENNETT), Polit. Sci, see 10th ed, Soc. & Behav. Vols. Latest known address: 779 W. Bonita Ave, Claremont, Calif. 91711.

HARVEY, DR. WILLIAM E, b. Appomattox, Va, Oct. 13, 13; m. 38; c. 1. PUBLIC ADMINISTRATION. B.S, Va. Polytech, 35; M.P.A, Harvard, 50, D.P.A, 54. Asst. county agent, exten, Va. Polytech, 35-40, county agent, 40-49; training prog. specialist, FOR. AGR. SERV, U.S. DEPT. AGR, 51-54, asst. dir. FOR. TRAINING DIV, 54-65, DIR, 65- Tech. consult, For. Asst. Progs, 51-55. U.S.N, 44-46, Lt.(jg). Development and administration of training programs for foreign leaders, scientists and technicians. Publ: Appraisal of the extension service of El Salvador; Extension in El Salvador: a case study. Address: 6611 Bay Tree Lane, Falls Church, Va. 22041.

HARVILL, PRES. RICHARD A(NDERSON), b. Centerville, Tenn, Aug. 29, 05; m. 36. ECONOMICS. B.S, Miss. State Col, 26; A.M, Duke, 27, LL.D, 59; Ph.D.(econ), Northwestern, 32. Instr. econ, Miss. State Col, 27-28; econ. & bus. admin, Duke, 28-30, 32-34; asst, inst. land & pub. utility econ, Northwestern, 30-31, econ, 31-32; asst. prof, ARIZONA, 34-39, assoc. prof, 39-46, prof, 46-47, dean grad. sch, 46-47, col. lib. arts, 47-51, PRES, 51- Vis. asst. prof, Buffalo, 37-38. Asst. dist. price exec, Off. Price Admin, Ariz, 42-43, dist. price exec, 43-46. Mem. bd. advs, Inst. World Affairs, 51-; nat. coun, Atlantic Union Cmt, 59-; Defense Orientation Conf. Asn, 59; U.S. sect, Mex-U.S. Cmt, Chamber Commerce, 61-; sponsor, Atlantic Coun, 62- Am. Econ. Asn; fel. Royal Econ. Soc; Can. Polit. Sci. Asn. Public utilities; economic systems. Publ: Economy of the South; Economy of Arizona; Role of the university in water research. Address: 85 Calle Encanto, Tucson, Ariz. 85716.

HARWARD, PROF. NAOMI MARKEE, b. Neponset, Ill, Feb. 25, 07; m. 36; c. 2. SOCIOLOGY. B.A, Northwestern, 29; B.D, Garrett Biblical Inst, 31; Houghteling fel, Chicago, 33-34, M.A, 33 & 41. Case worker, Joint Serv.

Bur, Ill, 34-36; field work instr, sch. soc. serv. admin, Chicago, 36-40, res. supvr, Works Prog. Admin. proj, 40-41; asst, Coun. Soc. Agencies, Ill, 41; sr. caseworker, home serv. dept, Chicago Chap, Am. Red Cross, 41, asst. supvr, 41-43, dist. supvr, 43-44, asst. dir. dist. off, 44; lectr. SOC. WELFARE, ARIZONA STATE, 56-57, asst. prof, 57-62, ASSOC. PROF, 62- Proj. dir, Voc. Rehab. Socio-econ. & Other Variations Related to Rehab. of Mexican Americans, 65-69. Del, Coun. Soc. Work Ed, 59- Pub. Welfare Asn; Sociol. Asn; Acad. Polit. & Soc. Sci; Nat. Asn. Soc. Workers; Nat. Rehab. Asn. Vocational rehabilitation and recruitment of social workers. Publ: The impact of federal expenditures: an example from one state, Soc. Serv. Rev, 6/63; Peace Corps: the modern Hull House or a threat to professionalism?, Soc. Work, 10/63; co-auth, The Mexican American in our society, Rehab. Record, 11-12/67. Address: Dept. of Sociology, Arizona State University, Tempe, Ariz. 85281.

HARWAY, PROF. NORMAN I, b. New York, N.Y, July 26, 25; m. 51; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 47; Ph.D.(psychol), Rochester, 52. Res. assoc. psychol, Michigan, 52-54; instr. psychiat, med. center, Rochester, 54-55, asst. prof. psychol, 54-59, assoc. psychiat, 55-56, asst. prof, 56-59, assoc. prof, 59-64, head div. psychol, 56-68, PROF. PSYCHOL, 64-68; PITTSBURGH, 68- Lectr, Mich. State Norm. Col, 53-54. U.S.A, 43-46. AAAS; Psychol. Asn. Clinical psychology; psychotherapy; personality theory. Publ: Some factors in psychotherapists perception of their patients, J. Consult. Psychol: Size constancy in psychopathology, J. Abnorm. & Soc. Psychol, 64; Objective content analysis of psychotherapy by computer, In: Data acquisition and processing in biology and medicine, 65. Address: Dept. of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15213.

HARWAY, DR. VIVIAN T(HACKABERRY), Psychol, see 10th ed, Soc. & Behav. Vols.

HARWITZ, DR. MITCHELL, b. Wilmington, Del, Sept. 6, 34. ECONOMICS. B.A, Brandeis, 54; Nat. Sci. Found. fel, Mass. Inst. Tech, 56-58, Ph.D.(econ), 59. Asst. prof. ECON, Northwestern, 58-65; ASSOC. PROF, STATE UNIV. N.Y. BUFFALO, 65- Ford Found. faculty res. fel, 59; sr. consult. economist & acting field dir. Econ. Surv. of Liberia, Northwestern, 61. Consult, Off. Naval Res, 60. Econ. Asn; Economet. Soc; Statist. Asn; Inst. Math. Statist. Economic theory, especially mathematical methods, international trade and economic growth; theory and policy of economic development. Publ: Co-auth, Highway benefits. Address: Dept. of Economics, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HARWOOD, DEAN CHARLES W(ILSON), b. Roberts, Idaho, Feb. 24, 24; m; c. 3. PSYCHOLOGY. B.S, Washington (Seattle), 47; M.S, 50, Ph.D.(psychol), 53. Assoc. psychol, Washington (Seattle), 49-52; instr, Ore. State Col, 52-53; asst. prof. psychol, WEST. WASH. STATE COL, 53-57, assoc. prof, 57-62, prof, 62-67, chmn. dept, 61-66, DEAN FAIRHAVEN COL, 67- Fulbright lectr, Otago, N.Z, 66. U.S.N.R, 43-46, Lt.(jg). Psychol. Asn. Autonomic conditioning; culture and personality. Address: Fairhaven College, Western Washington State College, Bellingham, Wash. 98225.

HARWOOD, E(DWARD) C(ROSBY), b. Cliftondale, Mass, Oct. 28, 00; m. 22, 38; c. 7. ECONOMICS. B.Sc, U.S. Mil. Acad, 20; C.E, Rensselaer Polytech, 22, M.C.E, 30, M.B.A, 31. DIR, AM. INST. ECON. RES, 33- Wellington award, Am. Soc. Civil Eng, 35. U.S.A, 20-37, 40-46, Col. AAAS. Money-credit problems; business cycles; scientific method; engineering. Publ: Cause and control of the business cycle; Reconstruction of economics; Twentieth century common sense and the American crisis of the 1960's. Address: American Institute for Economic Research, Great Barrington, Mass. 01230.

HARWOOD, ERNEST M(ONROE), JR, b. New London, Conn, July 30, 08; m. 36; c. 1. GEOGRAPHY. A.B, Clark, 32; M.A, Syracuse, 37. Observer, Blue Hill Meteorol. Observ, 32-35; teacher, high sch, Conn, 37-42; geogr, U.S. Army, 42-50, mil. intel. res. specialist geog, Army Map Serv, 51-55; res. analyst, arctic bibliog, Library of Cong, 58-66; GEOGR, U.S. GEOL. SURV, 66- U.S.A.R, 49, Capt. Asn. Am. Geog; Arctic Inst. N.Am; Am. Name Soc. Arctic geology, meteorology, oceanography and exploration. Address: Room 1019, 801 19th St. N.W, Washington, D.C. 22206.

HARWOOD, DEAN KENNETH (ALBERT), b. Chicago, Ill, July 12, 24; m. 49. COMMUNICATIONS. A.B, Southern California, 47, A.M, 48, Ph.D.(speech), 50. Asst. radio, Southern California, 47-50; asst. prof, Alabama, 50-51, assoc. prof. radio & TV & acting head dept, 51-52, prof. & head dept, 52-54; assoc. prof. & chmn. dept, TELECOMMUN, Southern California, 54-57, prof. & chmn. dept, 57-68; PROF. & DEAN, SCH. COMMUN. & THEATER, TEMPLE, 68- U.S.A, 43-45. Fel. Sociol. Asn; Statist. Asn; Speech Asn; Psychol. Asn. Publ: Studies in listenability, Speech Monogr; On a general theory of communication, Audio Visual Commun. Rev; World bibliography of selected periodicals on broadcasting, J. Broadcasting. Address: Box 493, Valley Forge, Pa. 19481.

HARWOOD, WILSON F(RANKLIN), b. San Francisco, Calif, Dec. 31, 12; m. 38; c. 3. POLITICAL SCIENCE. A.B, Stanford, 35; Chicago, 42; American Univ, 43-45. Asst. dir. youth personnel, Nat. Youth Admin, Calif, 39-42; personnel officer, Nat. Resources Planning Bd, 42-43; admin. analyst, U.S. Bur. Budget, 43-46, admin. officer, Off. Naval Res, 46-50; asst. dir. Nat. Sci. Found, 51-57; dir. govt. surv. div, Govt. Affairs Inst, Iran, 57-61; int. economist, STANFORD RES. INST, 62-65, ADMINSTR, INT. DEVELOP. CENTER, 65- Mgt. consult, 48-; consult, Govt. Reorgn. Cmn, Puerto Rico, 49, chief adv, Philippines, 54-56. Soc. Adv. Mgt; Soc. Int. Develop. Public administration. Address: International Development Center, Stanford Research Institute, Menlo Park, Calif. 94025.

HASEK, PROF. C(ARL) W(ILLIAM), b. Franklin, Pa, July 6, 89; m. 14; c. 3. A.B, Lehigh, 11; A.M, Harvard, 14; Ph.D, Columbia, 25. Prof, Bethlehem Prep. Sch, Pa, 11-13; mem. faculty, Pa. State, 14-30, prof. ECON, 30-49, emer. prof, 49-64, head dept, 31-49; PROF, NEW COL, 64- Oberlaender Trust fel, Germany, 35-36; lectr, Bell Tel. Co, Pa, 44-54. Econ. Asn. Adam Smith's doctrines in Germany; principles of economics; economic theory and its application. Address: 2170 McClellan Pkwy, Sarasota, Fla. 33579.

HASELKORN, DR. HARRY, b. New York, N.Y, Oct. 18, 19; m. 42; c. 3. PSYCHOLOGY. B.S.S, City Col. New York, 42; M.A, Columbia, 48; Ph.D, N.Y. Univ, 53. Psychologist, Vet. Admin, 47-57; chief psychologist, Cent. Island Community Ment. Health Center, 57-61; DIR. PSYCHOL. SERV, SOUTH NASSAU CONSULT. SERV, 61- Lectr, Hofstra, 61-62; Queens Col.(N.Y), 62- Consult, div. voc. rehab, State Dept. Ed, N.Y, 54-57; Dept. Health Ed. & Welfare, 63-; private practice. Psychol. Asn; Personnel & Guid. Asn. Evaluation of psychotherapy. Publ: The counselor's limits, Voc. Guid. Asn; Vocational interest patterns of a group of homosexuals, J. Counseling Psychol. Address: 57 Myles Ave, Levittown, N.Y. 11756.

HASEMAN, PROF. W(ILBER) C(ARY), b. Columbia, Mo, Feb. 16, 20; m. 42; c. 5. ACCOUNTING. B.S, Missouri, 41; M.B.A, Harvard, 47; Ph.D, Syracuse, 55. Instr. acct. & bus. statist, Syracuse, 47-54, asst. prof. ACCT, 54-56, assoc. prof, 56-60; MISSOURI, 60-64, PROF, 64- Fulbright lectureship, Finland, 58-59; Price Waterhouse summer fel, 64. U.S.A, 42-46, Maj. Am. Acct. Asn; Nat. Asn. Acct. Cost accounting; budgeting; controllership. Publ: Management uses of accounting, Allyn & Bacon, 63; Overhead and product costing, Acct. Cost Handbook; Direct costing, Acct. Rev. Address: 813 Greenwood Court, Columbia, Mo. 65201.

HASHIMI, DR. RASOOL M. H, b. Hindiyah, Iraq, 19; m. 53; c. 2. ECONOMICS. B.A, Higher Teachers Training Col, Iraq, 44; Fulbright award, Wisconsin, 51-52, M.A, 53, Ph.D.(econ), 58. Teacher, high sch, Iraq, 44-51; lectr. ECON, Mich. State, 57-60; asst. prof, Westminster Col.(Mo), 60-65; ASSOC. PROF, SOUTHERN ILLINOIS, 65- Ford Found. summer fel, 62. Econ. Asn; Economet. Soc. Behavior of labor share in national income aggregates; redistributional effects of economic fluctuations on factor shares; land reform movements in the Middle East in connection with income distribution and economic development. Publ: Studies in functional income distribution; co-auth, Land reform in Iraq: economic and social implications, Land Econ. Address: Dept. of Economics, Southern Illinois University, Edwardsville, Ill. 62025.

HASKELL, PROF. MARTIN R(OY), b. New York, N.Y, Oct. 21, 12; m. 46. SOCIOLOGY, PSYCHOLOGY. B.A, City Col. New York, 31; LL.B, Brooklyn Law Sch, 40; M.A, N.Y. Univ, 54, Ph.D.(sociol, psychol), 57. Practicing lawyer, 46-48; from lectr. to asst. prof. SOCIOL, City Col. New York, 58-63; ASSOC. PROF, CALIF. STATE COL. LONG BEACH, 63- Lectr, N.Y. Univ, 46-48; placement dir, Berkshire Farm for Boys, 57-60. Dir, Moreno Inst, 54-63. Consult, sch. indust. & labor rel, Cornell, 58; Calif. Youth Authority, 64-; Youth Opportunity, 67- Aichorn award, 59; DeRoy award. Soc. Study Social Probs, 61. U.S.A, 42-46, 48-53, 61-, Maj. Fel. Sociol. Asn; Psychol. Asn; fel. Soc. Group Psychother. & Psychodrama.(pres, 61-62); Soc. Criminol. Application of role training, psychodrama, group psychotherapy and other forms of psychotherapy to social problems, especially juvenile delinquency, crime, drug addiction, alcoholism, marital and other family problems. Publ: The psychodramatic method, 67 & An introduction to socioanalysis, 67, Calif. Inst. Socioanal; An alternative to more and larger prisons: a role training program for social reconnection, Group Psychother. Address: California State College, Long Beach, Calif. 90804.

HASKELL, DR. ROYAL JOYSLIN, JR, b. Washington, D.C, June 24, 29; m. 59; c. 1. PSYCHOLOGY. A.B, Syracuse, 52; fel, Massachusetts, 52-53; M.A, Hopkins, 58, Gilman fel, 58-59, Ph.D.(psychol), 59. Clin. psychol. specialist, U.S. Army Hosp, Ft. Benning, Ga, 54-55; staff psychologist, Sheppard & Enoch Pratt Hosp, 55-57 & 58-59; Rosewood State Training Sch, 57-58; consulting psychologist, Esther Loring Richards Children's Center, 58-59; staff psychologist, INT. BUS. MACHINES CORP. 59-63, mgr. personnel res, 63-67, PROG. MGR. APPL. MED. RES, 67- AAAS; Psychol. Asn. Diagnostic evaluation; selection; placement; counseling; therapy; job attitude surveys; training. Publ: Relationship between agressive behavior and psychological tests, J. Proj. Tech, 61; co-auth, A study of computer-assisted instruction in industrial training, J. Appl. Psychol, 66. Address: Partners Trace Rd, Poughkeepsie, N.Y. 12603.

HASKINS, PROF. EDWARD COOPER, b. Ann Arbor, Mich, Aug. 1, 18; m. 46; c. 1. GEOGRAPHY, ANTHROPOLOGY. B.Sc, Wisconsin, 49, M.A, 50; Ph.D, Minnesota, 56. Instr. GEOG, Yale, 54-56; asst. prof, TEMPLE, 56-59, ASSOC. PROF, 59-, DIR, NORTH PHILA. PROG, 61- U.S.A, 42-45. Asn. Am. Geog. Action-research in social science; comprehensive urban social-physical planning; metropolitan political and social geography. Address: Dept. of Geography, Temple University, Philadelphia, Pa. 19122.

HASKINS, PROF. JACK BURTON, b. Macon, Ga, Mar. 20, 22; m. 64; c. 1. MASS COMMUNICATION, SOCIAL PSYCHOLOGY. A.B, Georgia, 49; M.A, Emory, 51; Ph.D.(mass commun), Minnesota, 59. Reporter & news ed, Gainesville News & radio sta. WDUN, Ga, 49-50; instr. journalism & asst. res. dir, sch. journalism, Minnesota, 51-56; sr. res. exec, Curtis Pub. Co, 56-61; mgr. advert. res, Ford Div, Ford Motor Co, 61-63; prof. MASS COMMUN. & chmn. dept, Indiana, 63-66; JOHN BEN SNOW RES. PROF, SYRACUSE, 66- Commun. res. consult, Am. Oil Co, 63-64; Bristol-Myers Co. & Anheuser-Busch, Inc, 66-67; injury control prog, Dept. Health, Ed. & Welfare & Proj. Pub. Info, 67-68. Mem. mass commun. cmt, Nat. Safety Coun, 67-68; res. cmt, Assoc. Press Managing Ed. Asn, 68- U.S.N, 43-46, 52-54, Res, 54-67, Lt. Psychol. Asn; Asn. Pub. Opinion Res; Asn. Ed. in Journalism. Mass communications and attitude research, including advertising, magazine and newspaper fields primarily. Publ: The editorial mix: one solution to an editor's dilemma, J. Quart, 65; Advertising research, Int. Correspondence Schs. Monogr, 68; Field experiments in communication: methodology and case studies, Advert. Res. Found. Monogr, 68. Address: Newhouse Communications Center, Syracuse University, Syracuse, N.Y. 13210.

HASLEM, DR. JOHN ARTHUR, b. St. Louis, Mo, Aug. 16, 34; m. 55; c. 3. BUSINESS ADMINISTRATION, FINANCE. A.B, Duke, 56; Harvard, 56-57; M.B.A, North Carolina, 61, Ph.D.(bus. admin), 67. Asst. to exec. v.pres, Marko Eng. Co, N.C, 57-60; ASST. PROF. FINANCE, WISCONSIN, 65-,

lectr, grad. sch. banking, 66. Lectr. sch. credit union personnel & financial counseling sch, Credit Union Nat. Asn, 66-; Nat. Develop. & Mgt. Found. S.Africa, Johannesburg, 68. Fed. Deposit Ins. Corp. res. grant, 67. Finance Asn. Corporation finance; bank management; capital budgeting; investments. Publ: An analysis of relative bank profitability: the seventh federal reserve district, Univ. Wisconsin, 67; Depreciation: a source of cash?, Univ. Arizona, 8-9/67; A statistical analysis of the relative profitability of commercial banks, J. Finance, 3/68. Address: Dept. of Finance, Graduate School of Business, University of Wisconsin, Madison, Wis. 53706.

HASLERUD, PROF. GEORGE M(ARTIN), b. Fargo, N.Dak, Sept. 14, 06; m. 36; c. 3. PSYCHOLOGY. A.B, Minnesota, 30, Ph.D.(psychol), 34. Asst. comp. psychobiol, Yale, 34-35; instr. PSYCHOL, Tennessee, 35-39, asst. prof, 39-45; assoc. prof, NEW HAMPSHIRE, 45-54, PROF, 54- Fulbright prof, Kyoto, 53-54, Lima, 68; U.S. Off. Ed. res. grant, 65-67. Consult, N.H. State Hosp, 55- Inter-Univ. Inst. Soc. Gerontol. fel, 58. Fel. Psychol. Asn; Psychonomic Soc; Japanese Psychol. Asn. Transfer of training; gerontology; perception. Publ: Properties of bi-directional gradients at subgoals, J. Genetic Psychol; Anticipative transfer of mechanically guided turns, J. Exp. Psychol; Transfer from context by subthreshold summation, J. Ed. Psychol. Address: Dept. of Psychology, Conant Hall, University of New Hampshire, Durham, N.H. 03824.

HASS, DR. WILBUR A, b. Lincoln, Nebr, May 12, 37. PSYCHOLOGY, PSYCHOLINGUISTICS. B.A, Nebraska, 59; Ph.D.(psychol), Michigan, 65. Instr. PSYCHOL. & HUMAN DEVELOP, CHICAGO, 64-66, ASST. PROF, 66- Psychology of language; language development in children. Address: Dept. of Psychology, University of Chicago, Chicago, Ill. 60637.

HASSAN, ABRAHAM H, Data Collection & Anal, see 10th ed, Soc. & Behav. Vols.

HASSAN, DR. MOHAMMAD ZIA-UL, Indust. Eng, see 11th ed, Phys. & Biol. Vols.

HASSAN, DR. M(OSTAFA) F(ATHY), b. Alexandria, Egypt, Nov. 9, 27; m. 59. ECONOMICS. B.Com, Cairo, 51, M.Com, 53; Ph.D, Wisconsin, 57. Economist, labor dept, Govt. of Egypt, 51-53; asst, Wisconsin, 54-55; lectr. econ, Inst. Soc. Work & economist, Ministry of Nat. Planning, 57-59; economist, Ministry Mines & Hydrocarbons, Govt. of Venezuela, 59-61; ASSOC. PROF. ECON, Tex. Col, 61-63; Ithaca Col, 63-64; Miami (Fla), 64-68; ILLINOIS STATE, 68- Econ. Asn. Economics of underdeveloped countries. Publ: Capital flight: Venezuela 1958-1960, Inter-Am. Econ. Affairs, autumn 63; The second four-year plan of Venezuela, J. Inter-Am. Studies, 4/67; High growth, unemployment, and planning in Venezuela, Econ. Develop. & Cultural Change, 7/67. Address: Dept. of Economics, Illinois State University, Normal, Ill. 61761.

HASSANEIN, DR. KHATAB M, Biostatist, Statist. See 11th ed, Suppl. II to Phys. & Biol. Vols.

HASSELL, EDWARD W(ARREN), b. Hertford, N.C, Sept. 6, 11; m. 37. ECONOMICS. B.S, American Univ, 46; M.A, George Washington, 65. ECONOMIST, U.S. DEPT. COMMERCE, 36-, transport consult, 47. Econ. Asn. Transport and labor economics; industrial geography. Publ: Role of transportation policy in technological change, Nat. Cmn. Tech. Avionic econ. prog, 66. Address: 1008 N. Potomac St, Arlington, Va. 22205.

HASSENGER, DR. ROBERT L, b. Sioux City, Iowa, Mar. 2, 37; m. 59; c. 1. SOCIOLOGY, EDUCATION. B.A, Notre Dame, 59; M.A, Marquette, 61; Ph.D.(sociol. of ed), Chicago, 65. Instr. psychol. & dir. res, Mundelein Col, 62-65; ASST. PROF. SOCIOL, NOTRE DAME, 65-, ASST. PROF. ED, 67- DIR. CENTER ED. RES, 68- Sociol. Asn; Soc. Sci. Study Relig. Sociology of education and religion; social psychology of education; college impact on students. Publ: Co-auth, The shape of Catholic higher education, Univ. Chicago, 67 & The Catholic college climate, Sch. Rev, winter 66; auth, A rationale for changing student values, Ed. Record, winter 67. Address: Center for Educational Research, University of Notre Dame, Notre Dame, Ind. 46556.

HASSLER, PROF. JAMES B(URTON), b. Nebr, Dec. 23, 20; m. 46; c. 2. AGRICULTURAL ECONOMICS. B.S, California, 48, Ph.D.(agr. econ), 52. Instr. & lectr. AGR. ECON, California, 52-56; assoc. prof, NEBRASKA, 57-66, PROF, 67- U.S.A.A.F, 43-45. Statist. Asn; Economet. Soc; Agr. Econ. Asn. Quantitative economics; applied statistics. Address: Dept. of Agricultural Economics, University of Nebraska, Lincoln, Nebr. 68503.

HASSON, DR. JOSEPH A(LBERT), b. Seattle, Wash, Aug. 22, 21; m. 43; c. 3. ECONOMICS. B.A, Washington (Seattle), 43; M.B.A, Chicago, 47, M.A, 49, Ph.D.(econ), 51. Int. economist, U.S. Dept. State, 51-54; asst. prof. econ, Washington (Seattle), 54-56; Tulane, 56-57; sr. economist, Midwest Res. Inst, 57-61; Nat. Planning Asn, D.C, 61-62; fel. econ, London Sch. Econ, 62-64; consult. Latin Am, Rand Corp, 65-66; econ. in ed, U.S. Off. Ed, 66; ASSOC. PROF. ECON, TEMPLE, 67- Guest scholar, Brookings Inst, 67. U.S.A, 43-46, Capt. Econ. Asn; Economet. Soc; Latin Am. Studies Asn; Royal Econ. Soc. International economics; economic development and theory, especially Latin America; mathematical models; economics of nuclear power. Publ: Economics of nuclear power, Longmans, Green & Co, Eng, 65; Economic stabilization of primary producing countries, J. Polit. Econ; Latin American development: the role of the Inter-American Committee for the Alliance for Progress, Orbis, winter 66. Address: Dept. of Economics, Temple University, Philadelphia, Pa. 19122.

HASSRICK, ROYAL B(ROWN), b. Ocean City, N.J, July 10, 17; m. 36; c. 5. ANTHROPOLOGY. B.A, Dartmouth Col, 39; Harvard, 39-40; Pennsylvania, 41-43. Consult, U.S. Bur. Indian Affairs, D.C, 42-43; res. secy. & exec. dir, Asn. Am. Indian Affairs, N.Y, 43-44; soc. sci. analyst, Off. War Info, D.C, 44-45; cor. secy, Nat. Cong. Am. Indians, 47-48; curator Mus. South. Plains Indians, Okla, 48-51; asst. gen. mgr, U.S. Indian Arts & Crafts Bd, Colo, 51-54; curator West. Am. art, DENVER ART MUS, 54-64, ASST. DIR, 64-, trustee, 62-64. Lectr, Regis Col, 53-54. Cmnr, U.S. Indian Arts & Crafts Bd, Dept. Interior, 67- U.S.A, 45-46. Fel. Anthrop. Asn. Ethnology of the Dakota Indians; eighteenth and nineteenth century American art. Publ: Co-auth, Warriors without weapons & Building the West; auth, The Sioux, Univ. Oklahoma, 64. Address: Lone Star Ranch, Elizabeth, Colo. 80107.

HASTAY, PROF. MILLARD W(ALTER), b. Enid, Mont, Sept. 8, 16; m. 37; c. 2. ECONOMICS, STATISTICS. B.A, Reed Col, 41; Converse scholar, Stanford, 41-42, univ. fel, 41-43, Rosenberg fel, 43; Ph.D.(econ), Columbia, 58. Asst. econ. & statist, Stanford, 41-43, acting instr. statist, 43-44; assoc. math. statistician, statist. res. group, Columbia, 44-46; mem. res. staff econ. & statist, Nat. Bur. Econ. Res, N.Y, 46-58; PROF. ECON, WASHINGTON STATE, 58- Lectr, City Col. New York, 54-58. Mem. adv. cmt. construct. vol. statist, U.S. Bur. Budget, 47-48; mem. & secy, consult. cmt. gen. bus. expectations, bd. governors, Fed. Reserve Syst, 54-55; mem. Am. Econ. Asn. Adv. Cmt, U.S. Bur. Census, 60-62; del, Univs. Coun. Water Resources, 64- Econ. Asn; fel. Statist. Asn. Cyclical behavior of business investment; macro-economic forecasting of short-term economic variables, especially business inventories; expectational dynamics of the business firm; statistical analysis of economic time series. Publ: Co-auth, Cyclical behavior of investment In: Regularization of business investment; Formation of business expectations about operating variables, In: Quality and economic significance of anticipations data; Report of the consultant committee on general business expectations. Address: Dept. of Economics, Washington State University, Pullman, Wash. 99163.

HASTINGS, ANDREW D(EWEY), JR, b. Newport, N.H, May 12, 24. GEOGRAPHY. B.S. & M.S, New Hampshire, 50; fels, Clark, 53-54, 66- Biologist, U.S. Army Qm. Climatic Res. Lab, 50-54; technologist environ. clothing, U.S. Army Qm. Res. & Develop. Center, 54-55, sect. chief cartog, 55-56; res. geogr, U.S. Army Res. & Eng. Center, 56-63; CAREER GEOGR, U.S. ARMY NATICK LABS, 63- Primary sci. liaison appointee, U.S. Army Res. Off, N.C, 66- Mem. panel geog, Fed. Civil Serv. Bd. Exam, 65- Fed. Civil Serv. Sustained Superior Performance Award, 61. U.S.A, 42-45; Bronze Star Medal. Asn. Am. Geog; Am. Geog. Soc; Can. Asn. Geog; Glaciol. Soc; Research Soc; Polar Soc; Int. Asn. Quaternary Res. Applications of Arctic and high-mountain climatology and glacial geomorphology to military geography, especially the last millenium of climatic change in southern Greenland. Publ: Co-auth, Windchill in the Northern hemisphere, U.S. Army Qm. Res. & Eng. Tech. Report EP-82, 2/58; auth, Atlas of arctic environment, U.S. Air Force Cambridge Res. Lab, 3/61; Mountain geography, U.S. Army Res. & Develop. Newsmag, 4/66. Address: 24 Lakeview Gardens, Natick, Mass. 01760.

HASTINGS, PROF. DELBERT C(URTIS), b. Pierpont, S.Dak, Dec. 15, 20; m. 47; c. 3. STATISTICS, ECONOMICS. B.S, Minnesota, 47, M.A, 49, Ph.D. (statist), 54. Asst. prof. & asst. dir. bur. bus. res, Washington (Seattle), 51-56; economist & mgr, res. dept, Fed. Reserve Bank, Mo, 56-58; prof. bus. admin, MINNESOTA, MINNEAPOLIS, 58-65, PROF. QUANT. ANAL. & CHMN. DEPT, SCH. BUS. ADMIN, 65- Ford Found. adv, statist. dept, Govt. Jordan, 64-65. Consult. economist. U.S.N, 42-46. Statist. Asn; Inst. Mgt. Sci; Opers. Res. Soc; Econ. Asn. Index numbers and economic measurements; business fluctuations, forecasting and statistics. Publ: A study of the northern Minnesota vacation market, U.S. Area Redevelop. Admin, 63; co-auth, The mysterious world of the fed, Bus. Horizons, spring 62. Address: School of Business Administration, University of Minnesota, Minneapolis, Minn. 55455.

HASTINGS, PROF. J(OHN) THOMAS, b. Louisville, Ky, Mar. 16, 11; m. 34; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Ball State Teachers Col, 34; M.A, Chicago, 41, Ph.D.(ed), 43. Prof. ed, dir. off. ed. testing & univ. exam, ILLINOIS, URBANA, 42-63, PROF. ED. PSYCHOL. & DIR. CENTER INSTR. RES. & CURRICULUM EVAL, 63- Asst. dir, Am. Coun. Ed. Armed Serv. Proj, 43-44. Spec. consult, student personnel, dept. Japanese univs, Supreme Comdr. Allied Powers, 50. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed.(v.pres, pres, past pres, 67-70). Evaluation of educational objectives tests as action information; measurement in critical thinking. Publ: Co-auth, Guide to evaluation of educational experiences in the Armed Services; Use of tests in educational personnel programs, Rev. Ed. Res; Use of test results. Address: Center for Instructional Research & Curriculum Evaluation, 270 Education, University of Illinois, Urbana, Ill. 61801.

HASTINGS, PROF. PAUL G(UILER), b. Upland, Ind, Feb. 6, 14; m. 47; c. 2. ECONOMICS. A.B, Oberlin Col, 37; M.B.A, Pennsylvania, 39, Ph.D.(econ), 50. Asst. prof. econ, Earlham Col, 46-48; lectr. transportation, Temple, 48-49; asst. prof. econ, Carroll Col.(Wis), 49-50; prof. bus. admin. & dir. bur. bus. res, Texas Christian, 50-59; PROF. FINANCE & HEAD DEPT, SACRAMENTO STATE COL, 59- Fel, Found. Econ. Ed, 53; Forum Finance, 54. U.S.A.A.F, 42-46. Econ. Asn; Finance Asn. Finance; foreign trade. Publ: A United States-Canada customs union; The management of business finance, Van Nostrand, 66; Introduction to business, McGraw, 68. Address: School of Business, Sacramento State College, Sacramento, Calif. 95819.

HASTINGS, PROF. PHILIP K(AY), b. Worcester, Mass, Aug. 27, 22; m. 50; c. 4. PSYCHOLOGY. M.A, Princeton, 49, jr. fel, 49-50, Ph.D.(psychol), 50. Instr. psychol, Williams Col, 46-48; instr, Princeton, 50-51; from asst. prof. to PROF. PSYCHOL. & POLIT. SCI, WILLIAMS COL, 51-, DIR. PITTSFIELD PROJ, 52-, ROPER PUB. OPINION RES. CENTER, 57- Res. assoc, Psychol. Corp, 52- Mem. exec. cmt, Coun. Soc. Sci. Data Archives, 65- U.S.N.R, 44-46, Lt.(jg). Psychol. Asn; Sociol. Asn; Asn. Pub. Opinion Res; World Asn. Pub. Opinion Res. Social and political psychology; public opinion and propaganda. Publ: Non-voter in 1952, J. Psychol; Voter and the non-voter, Am. J. Sociol; Hows and howevers of women voters, N.Y. Times Mag. Address: Dept. of Psychology, Williams College, Williamstown, Mass. 01267.

HASTMAN, DR. ROY, Indust. Psychol, see 10th ed, Soc. & Behav. Vols.

HASTORF, PROF. ALBERT H(ERMAN), b. New York, N.Y, Nov. 26, 20; m. 43; c. 2. PSYCHOLOGY. A.B, Amherst Col, 42, hon. L.H.D, 67; M.A, Prince-

ton, 47, Ph.D.(psychol), 49. Instr. PSYCHOL, Dartmouth Col, 48-49, asst. prof, 49-55, prof. & chmn. dept, 55-61; PROF, STANFORD, 61- Fel, Center Adv. Study Behav. Sci, 54-55. U.S.A.A.F, 43-45, Sgt. Fel. Psychol. Asn. Perception; social psychology. Publ: Motivation, perception and attitude change, Psychol. Rev; Influence of suggestion on the relation of apparent size and apparent distance, J. Psychol; Apparent size with and without distance cues, J. Gen. Psychol. Address: 571 Foothill Rd, Stanford, Calif. 94305.

HASTY, LT. COL. G(ERALD) R(ICHARD), U.S.A, b. Pekin, Ill, Apr. 12, 26; m. 51; c. 3. POLITICAL SCIENCE, BUSINESS MANAGEMENT. B.S, Bradley, 52, M.B.A, 54; Harvard, 61; M.A, American Univ, 62, Ph.D.(pub. admin), 63; Northwestern, 64. U.S. ARMY, 54-, instr. govt, Univ. Maryland, Far East Div, Okinawa, 58, Korea, 62 & Vietnam, 65-66, GEN. STAFF, PENTAGON, 67- Vis. lectr. econ, Sogang Jesuit Col, Korea, 62; asst. prof. lectr. pub. admin, George Washington, 64-65, 67- Polit. Sci. Asn. Constitutional law and its relationship to man and his society; skill differential among public and private executives at the national or corporate level. Publ: NATO—a reappraisal, 64 & The national interest, 64, Air War Col; Skill differential, Armed Forces Staff Col, 68. Address: 8316 Wagonwheel Rd, Alexandria, Va. 22309.

HASTY, WILLIS L(eROY), b. Jackson, Maine, Sept. 11, 07; m. 33; c. 2. STATISTICS. B.S, Bowdoin Col, 29; B.C.S, Benjamin Franklin Univ, 34; M.A, American Univ, 53. Qual. control engr, Westinghouse Elec. Corp, 47-48; statistician, Naval Ord. Lab, 46-47, 48-49; Hq, U.S. Dept. Air Force, 51-53; U.S. Army Chem. Corps, 54-62; MATH. STATISTICIAN, U.S. POST OFF. DEPT, 62- U.S.A, 42-46, Capt. Statist. Asn; Research Soc; Inst. Math. Statist; N.Y. Acad. Sci. Design of experiments; operations research; communication theory. Address: 12602 Bluhill Rd, Silver Spring, Md. 20906.

HATANAKA, PROF. MICHIO, Econ, see 10th ed, Soc. & Behav. Vols.

HATCH, PROF. DAVID L(INCOLN), b. Belmont, Mass, Oct. 2, 10; m. 40; c. 4. SOCIOLOGY. A.B, Dartmouth Col, 33; fel, Harvard, 47-48, A.M, 48, Ph.D, 49. Instr. sociol, Conn. Col. for Women, 42-43; asst. prof, Kentucky, 46-48; assoc. prof, Syracuse, 48-54; prof. sociol, head dept. soc. sci. & hist. & dir. div. soc. sci, Madison Col, 54-58; PROF. SOCIOL, SOUTH CAROLINA, 58- Summer res. sociologist, S.C. State Hosp, 61. Chmn. cmt. res. & statist, community action prog, Econ. Opportunity Cmn, 64-66, cmt. planning & priorities, 66- Fel. Sociol. Asn; Rural Sociol. Soc; Soc. Sci. Study Relig. Analysis of consensus, conflict, decision making and personality characteristics on a comparative basis, especially in urban environment in Europe and the United States. Publ: Co-auth, Some observations on the relationship between the Calvinistic ethic and interpersonal relations over four generations, Marriage & Family Living, 8/62; auth, Emotional illness and the social structure, Int. J. Soc. Psychiat, 8/64. Address: Dept. of Anthropology & Sociology, University of South Carolina, Columbia, S.C. 29208.

HATCHER, DR. JOHN H, Mod. Am. & German Hist, see 5th ed, Dir. Am. Scholars, Vol. I. Hist.

HATFIELD, LT. COL. JIMMY L, U.S.A, b. Madison, W.Va, Mar. 8, 30; m. 53; c. 4. PSYCHOLOGY. B.A, Marshall, 51; M.A, Vanderbilt, 61, Ph.D.(psychol), 68. MED. SERV. CORPS, U.S. ARMY, 51-, platoon leader, Camp Pickett, Va, 52-53; instr. pilot combat, Korea, 53-54, pilot aviation training, Army Aviation Sch, Ft. Rucker, Ala, 55-56, res. asst. training methods, HumRRO, 56-58, adj. hosp. admin, Army Hosp, 61-62, RES. PSYCHOLOGIST, Aeromed. Res. Unit, 63-64, MED. RES. LAB, FT. KNOX, 66- Mem. cmt. hearing, bioacoustics & biomech, Nat. Acad. Sci-Nat. Res. Coun, 63- Psychol. Asn; Human Factors Soc. Training methods research; trainers and simulators; objective flight measures; psychopharmacology; psychoacoustics; vigilance; perceptual and motor skills. Publ: Co-auth, Genetic and behavioral aspects of pharmacologically induced arousal, Psychopharmacologia, 63; Noise problems associated with operation of US Army aircraft, U.S. Army Aeromed. Res. Unit, Reports 63-1, 63; Sense mode and coupling in a vigilance task, U.S. Army Med. Res. Lab. Report, 753, 67. Address: Psychology Division, U.S. Army Medical Research Lab, Ft. Knox, Ky. 40121.

HATHAWAY, PROF. DALE E(RNEST), b. Decatur, Mich, June 28, 25; m. 47; c. 4. AGRICULTURAL ECONOMICS. B.A, Mich. State, 47, M.A, 48; Carnegie fel, Harvard, 50-51, Dr.P.A, 52. Exten. economist, MICH. STATE, 48-50, instr. AGR. ECON, 51-52, asst. prof, 52-55, assoc. prof, 55-58, PROF, 58- Vis. prof, Chicago, 61-62. Expert economist, Coun. Econ. Adv, Exec. Off. President, 55-56. Consult, Cmn. Money & Credit, 59-60; joint econ. cmt, U.S. Cong, 60; Cmt. Econ. Develop, 60-61; President's Sci. Adv. Cmn, 66-67; Nat. Adv. Cmn. Rural Poverty, 67. Distinguished faculty award, Mich. State, 64. U.S.N.R, 44-46, Lt.(jg). Econ. Asn; Agr. Econ. Asn. (v.pres, Farm Econ. Asn, 60-61, award, 56, 58 & 67). Agricultural policy; public administration of agricultural programs. Publ: Government and agriculture; economic policy in a democratic society, Macmillan, 63; The problems of progress in agriculture economy, Scott, 64; co-auth, Rural America, Govt. Printing Off, 67. Address: 345 Whitehills Dr, East Lansing, Mich. 48823.

HATHAWAY, PROF. S(TARKE) R(OSECRANS), b. Central Lake, Mich, Aug. 22, 03; m. 28. PSYCHOLOGY. A.B, Ohio, 27, hon. L.H.D, 66; M.A, Ohio State, 28; Ph.D.(psychol), Minnesota, 32. Asst. prof, Ohio, 28-30; lectr. psychol, MINNESOTA, MINNEAPOLIS, 31-37, asst. prof. PSYCHOL. & CLIN. PSYCHOL, 37-40, assoc. prof, 40-47, PROF, 47-, DIR. DIV. CLIN. PSYCHOL, 51- Stanford fel. psychic res, 52-53; Fullbright prof, Nat. Univ. Mexico, 63-64. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. (award, 59). Electrical apparatus for psychological research; personality measurement; psychotherapy. Publ: Co-auth, Atlas of juvenile MMPI profiles; Adolescent personality and conduct, Univ. Minnesota, 64. Address: 222 Melbourne, Minneapolis, Minn, 55414.

HATTERY, PROF. LOWELL H(AROLD), b. Van Wert, Ohio, May 26, 16; m. 47; c. 2. PUBLIC ADMINISTRATION. A.B, Ohio, 36; Syracuse, 36-38; Ph.D. American Univ, 51. Assoc. agr. econ. statistician & asst. to head div. statist. & hist. res, U.S. Dept. Agr, 39-41; res. assoc, off. sci. personnel, Nat. Res. Coun, 46-48; asst. prof. MGT. & PUB. ADMIN, SCH. GOVT. & PUB. ADMIN, AMERICAN UNIV, 48-50, assoc. prof, 50-53, PROF, 53-, dir, center tech. & admin, 58-64. Consult. U.S.N, 41-46, Lt. Comdr. Fel. AAAS; Polit. Sci. Asn; Soc. Pub. Admin; fel. Soc. Adv. Mgt; Soc. Hist. Tech; Document. Inst; Inst. Mgt. Sci. Research administration; automatic data processing; technology and administration; documentation. Publ: Co-ed, Information retrieval management; Executive control and date processing. Address: School of Government & Public Administration, American University, Washington, D.C. 20006.

HATTERY, DR. ROBERT W(ILBER), b. Chicago, Ill, Jan. 5, 25; m. 57; c. 1. INTERNATIONAL RELATIONS. Ph.B, Chicago, 48, M.A, 54, Ph.D, 61; Johnson Found. fel, Wisconsin, 59-60. Instr. & asst. dir. polit. sci. & world affairs ed, bur. govt, Wisconsin, 55-59; asst. dir, Salzburg Seminar Am. Studies, Austria, 60-61; asst. prof. polit. sci, Wisconsin, 60-62, asst. dir, inst. world affairs ed, exten. div, 61-62; ASSOC. PROF. GOVT. & DIR. BUR. PUB. DISCUSSION, INDIANA, 62-, ASST. DEAN DIV. UNIV. EXTEN, 67- U.S.A, 43-45. Polit. Sci. Asn; Adult Ed. Asn; Soc. Citizen Ed. in World Affairs. Political parties; interest groups; identifying citizen participation in political processes, especially as related to international affairs, to the end of assessing both political and educational implications. Publ: Co-auth, Midwest world affairs audience: interest in world affairs and its origins; auth, Great decisions 1962, Inst. World Affairs, Univ. Wisconsin, 63. Address: Dept. of Government, Indiana University, 301 Owen Hall, Bloomington, Ind. 47401.

HATTON, DR. CHARLES S(OMERVILLE), b. Cambridge, Mass, Oct. 12, 07; m. 40. ECONOMICS. B.S, Boston, 31, M.A, 34; Ph.D.(econ), California, 52. Asst. prof. econ, Montana, 47-49; staff economist, Pac. Gas & Elec. Co, 51-54, 57; bus. economist, U.S. Opers. Mission, Am. Embassy, Japan, 55-57, planning officer econ. projs, Thailand, 58-60; econ. adv, Off. U.S. Econ. Coordinator Cento Affairs, Ankara, Turkey, 60-65, SPEC. ASST. TO ASSOC. DIR. NORTHEAST AREA OFF, U.S. AGENCY INT. DEVELOP, BRAZIL, 67- Mem, U.S. Del. Econ. Cmn. Asia & Far East, UN, 58, Cento Subcmt. Trade, 60-61, Cento Econ. Experts. 60, 62. U.S.A.A.F, 42-46, Capt. Econ. Asn. Public utility regulation; small industry and its effects on economic development. Publ: Japan, a report for American business men; Future of tourism in Japan. Address: American Embassy, U.S. Agency for International Development, APO New York 09676.

HATTON, DR. GLENN I(RWIN), b. Chicago, Ill, Dec. 12, 34; m. 54; c. 6. PHYSIOLOGICAL PSYCHOLOGY. B.A, N.Cent. Col.(Ill), 60; M.A, Illinois, 62, Ph.D.(psychol), 64. Nat. Inst. Ment. Health fel. PSYCHOL, Illinois, 64-65; ASST. PROF, MICH. STATE, 65- Nat. Inst. Ment. Health res. grant, 67-68. Psychol. Asn; Asn. Anat; Animal Behavior Soc. Neural and physiological control of water-regulatory processes and behaviors; electrophysiological mapping of mammalian somatic sensory systems. Publ: Auth, Drive shifts during extinction, 65, Retention of discrimination and avoidance habits following lesions in the interpeduncular nucleus, 65 & co-auth, Water regulation in the rat, 66, J. Comp. & Physiol. Psychol. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

HATTWICK, DR. MELVIN S(AXTON), b. Mill Hall, Pa, Mar. 31, 08; m. 31; c. 3. PSYCHOLOGY. M.A, Iowa, 32, Ph.D.(psychol), 34. Asst. prod. mgr, Batten, Barton, Durstine & Osborn, Inc, 34, asst. mgr, res. dept, 35; copy writer, Needham, Louis & Brorby, 37-41, acct. exec, 41-48, sr. acct. exec, 48-52; DIR. ADVERT, CONTINENTAL OIL CO, 52- Lectr, Northwestern, 41-52; Houston, 58- Consult, 40-52. Fel. Psychol. Asn. Psychological research in advertising; role of motivation in buying; research and appraisal of executive ability. Publ: How to use psychology for better advertising; The new psychology of selling; Critical appraisal of motivation research, Bus. Papers, Univ. Mich. Address: Continental Oil Co, 1300 Main St, Houston, Tex. 77002.

HATTWICK, DR. ROBERT G(EORGE), b. Cleveland, Ohio, Apr. 25, 16. PSYCHOLOGY. Ph.D.(psychol), Fla. State, 53. Psychologist, Ga. Pub. Health Dept, 53-55; consult. psychologist, 55-59; State Dept. Pub. Health, Ala, 59-61; N.C. Dept. Pub. Health, 61-66; dir, Sunland Training Center, Fla, 66-67; SR. PSYCHOLOGIST, DEPT. YOUTH SERV, MIAMI, 67- U.S.A, 43. Psychol. Asn. Clinical psychology; industrial psychology. Publ: Dark adaptation to intermediate levels and to complete darkness, J. Optical Soc. Am. Address: 6701 Ficus Dr, Miramar Isles, Fla. 33023.

HAUCK, DR. PAUL A(NTHONY), b. Germany, Sept. 15, 24; nat; m. 53; c. 2. PSYCHOLOGY. B.A, Drew, 48; M.A, Utah, 51, Ph.D, 53. Clin. psychologist, Butte Ment. Health Center, 53-55; head dept. psychol, East Moline State Hosp, 55-60; prog. dir, West Ment. Health Center, 60-66; INSTR. PSYCHOL, BRADLEY, 67- Chief psychologist, Peoria Ment. Health Clin, 66-; private practice, 66- Psychol. consult, Augustana Theol. Sem, 58-60. Ed, J. Rational Living, 64-66. Fel, Inst. Rational Living, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 43-45. Psychol. Asn. Psychotherapy; family group therapy; community consultation and planning for mental health. Publ: The rational management of children, Libra, 67; co-auth, Sexual identification of first drawn figure, J. Consult. Psychol. & Seasonal patterns by sex in admission rates to a state hospital, Psychol. Newsletter. Address: R.R. 4, Sleepy Hollow Rd, Peoria, Ill. 61614.

HAUDE, DR. RICHARD H(ARRY), b. Pittsburgh, Pa, Mar. 6, 36; m. 62. PSYCHOLOGY. A.B, Kenyon Col, 58; M.S, Pittsburgh, 62, Ph.D.(psychol), 64. Res. asst. PSYCHOL, Montefiore Hosp, Pittsburgh, Pa, 61-63; asst. instr, Pittsburgh, 64, res. assoc, 65; psychol. res. labs, Vet. Admin. Hosp, 65-67; ASST. PROF, AKRON, 67- Nat. Sci. Found. fel, 63-64. U.S.A.R, 59-65. AAAS; Psychol. Asn. Motivational and incentive parameters underlying visual exploratory behavior in subhuman primates; physiological mechanisms of learning in primates. Address: 1038 Dells Circle, North Canton, Ohio 44720.

HAUDE, DR. RUTH M, b. Pittsburgh, Pa, Aug. 23, 36; m. 62. PSYCHOLOGY. B.S, Indiana Univ. Pa, 58; M.A, Pa. State, 59; Ph.D.(psychol), Pittsburgh, 66. Teacher PSYCHOL, Robert Morris Jr. Col, 66-67; ASST. PROF,

MT. UNION COL, 67- Part-time instr, Pittsburgh, Greensburg, 67. Consult, Stark County Psychiat. Clin, Canton, Ohio, 67- Psychol. Asn. Elimination of avoidance behavior in albino rats in an approach-avoidance conflict situation. Address: 1038 Dells Circle, North Canton, Ohio 44720.

HAUENSTEIN, DR. FREDERICK B(URT), b. Huntington, Ind, Dec. 27, 33; m. 55; c. 2. COUNSELING PSYCHOLOGY. B.S, Ball State, 55, M.A, 60; C.S. Sperry grant, Indiana, 65-66, Ed.D.(counseling psychol), 66. Instr. geog, Del. County Sch. Bd, 59-60; counsr. & psychometrist, Port Huron Area Sch. Bd, 60-62; psychologist, St. Clair County Community Col, 62-65; asst. counseling, Univ. Indiana, 65-66; DIR. COUNSELING & TESTING SERV, ST. CLAIR COUNTY COMMUNITY COL, 66- U.S.A.F.R, 55-, Capt. Psychol. Asn. Motivation measurement; non-projective personality testing; psychometry. Publ: Relationship of the C.Q.T. and academic performance, Mich. Ed. J, 63; Predictive validity of the OAIS, 67 & Diagnosis: a study in conflict projection, (in press), Mich. Col. Personnel Asn. J. Address: 1417 Court St, Port Huron, Mich. 48060.

HAUGE, ELMER M(ARTIN), b. Estherville, Iowa, Sept. 1, 02; m. 34. STATISTICS. B.S, Minnesota, 26. Instr. & prin, high sch, Minn, 26-31; civil serv. personnel technician, 31-35; dir, State Div. Criminal Statist, 35-45; statistician, Kimberly-Clark Corp, Wis, 45-65; CRIME STUDIES ANALYST, BUR. CRIMINAL STATIST, CALIF. DEPT. JUSTICE, 65- Statist. Asn; Soc. Qual. Control. Criminal statistics; control charts; analysis of data; electronic data processing; education. Publ: Auth, Annual report, Bureau Criminal Apprehension; co-auth, Disposition of Watts Riot arrestees, 7/66 & Bank robbery in California—a 35 year comparison with other states (1931-1965) and 1965 cases analyzed in detail, 6/67, State of California. Address: Bureau of Criminal Statistics, California Dept. of Justice, 3301 C St, Sacramento, Calif. 95825.

HAUGE, DR. INGVALD B(ERTIN), b. Sedan, Minn, Nov. 23, 02; m. 27; c. 2. PSYCHOLOGY. A.B, St. Olaf Col, 24; A.M, Iowa, 27, Ph.D.(psychol), 29; Chicago, 33. Assoc. prof. ed, AUGUSTANA COL.(S.DAK), 29-30, prof. psychol, 30-46, dir. placement, 30-41, REGISTR, 41-, dean, 46-60. Auditory phenomena; scholastic achievement; beating complex phenomena. Publ: Co-auth, Studies in Luthern higher education; auth, Application of phi-phenomena to the perception of beats; An investigation of the phenomena of the beating complex. Address: Augustana College, Sioux Falls, S.Dak. 57102.

HAUGEN, PROF. ROLF N(ORDAHL) B(RUN), b. St. Paul, Minn, Mar. 29, 12. POLITICAL SCIENCE. A.B, Minnesota, 37; George Chase Christian Mem. scholar, Harvard, 38-40, A.M, 43, M.P.A, 52, Ph.D, 53. Assoc. ed, 'Commercial West Mag,' Minn, 30-31; securities analyst, banking div, State Dept. Commerce, 31-35; instr. polit. sci, Wellesley Col, 40-42; mem. staff dept. admin. mgt, Off. Price Admin, D.C, 42-43; asst. prof. POLIT. SCI, VERMONT, 47-54, assoc. prof, 54-59, PROF, 59-, DIR, GOVT. RES. CENTER, 61-, acting dean admin, 49-50, chmn. polit. sci. dept, univ, 63-64. Consult, state dept. admin, Vt, 60- Exec. secy, Vt. Legis. Interim Cmn, 57-60. U.S.N, 43-46. Am. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Inst. Pub. Admin. Can; Royal Inst. Pub. Admin; Int. Polit. Sci. Asn. Executive-legislative and federal-state-local relations; naval administration; comparative administration; Scandinavian governments; Canada and the Commonwealth. Publ: Co-auth, Survey report on the impact of federal grants-in-aid on the structure and functions of state and local government; Vermont: fourteenth original state. Address: 35 Kingsland Terr, Burlington, Vt. 05401.

HAUGHEY, PROF. DAVID W(ALLACE), b. Newton, Mass, Apr. 13, 25; m. 47; c. 3. CLINICAL PSYCHOLOGY. A.B. & M.A, Boston, 49, Ph.D, 60. Clin. psychol. trainee, Vet. Admin. Hosp, Bedford, Mass, 49-52; ment. health coordinator, div. ment. hyg, Commonwealth of Mass, 52-58, div. legal med, 58-59, dir. of psychol. res, dept. correction, 59-65; assoc. prof. PSYCHOL, MASS. STATE COL. BOSTON, 65-67, PROF, 67- Instr, Boston, 62- Consult. psychologist, Crittenden-Hastings House, 52- C.Eng, U.S.A, 43-46. Psychol. Asn; Asn. Correctional Psychol. Psychological changes during pregnancy; techniques of mental health consultation; group and individual treatment of adult public offenders. Publ: Co-auth, Mental hospitals; auth, Psychologist function on a state level. Address: 343 Ash St, Brockton, Mass. 02401.

HAUGHTON, RONALD W(ARING), b. Toronto, Ont, July 20, 16; nat; m. 52; c. 4. ECONOMICS. B.A, Washington (Seattle), 37; M.A, Wisconsin, 38. Chief contested claims, State Unemploy. Compensation Dept, Wash, 38-40; res. assoc, Northwest Regional Coun, 40; tech. adv, U.S. Soc. Security Bd, 41-42; from regional disputes dir. to dir. strike div, Nat. War Labor Bd, D.C, 42-45; spec. asst. to dir, U.S. Conciliation Serv, 45-47; asst. dir, inst. indust. rels, California, 47-50; arbitrator, Ford Motor Co. & United Automobile Workers. Cong. Indust. Orgn, 50-55; CO-DIR, INST. LABOR & INDUST. RELS, UNIVS. MICHIGAN & WAYNE STATE, 55- Arbitrator, 55- Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Address: Institute of Labor & Industrial Relations, Wayne State University, Detorit, Mich. 48202.

HAUK, DR. JAMES G, b. Morristown, Ind. Nov. 26, 24; m. 62. MARKETING, ECONOMICS. B.A, Indiana, 48, M.B.A, 49; Ph.D.(bus. admin), Michigan, 60. Instr. mkt, Missouri, 49-51; Michigan, 51-55; asst. prof. bus. orgn, Ohio State, 55-62; assoc. prof. mkt, Syracuse, 62-65; adv. & prof. bus. res. & mkt, Sch. Admin. & Finance, Colombia, 65-67; assoc. prof. MKT, SYRACUSE, 67-68, PROF, 68- Ford Found. fel, Carnegie Inst. Tech, 63. U.S.A, 42-45. Mkt. Asn. Business economics; logistics; international trade. Publ: Technical service in the American economy, Univ. Michigan, 62; co-auth, Science in marketing, Wiley, 65; auth, Marketing planning: a Colombian orientation, Univ. Antioquia, 67. Address: Dept. of Marketing, College of Business Administration, Syracuse University, Syracuse, N.Y, 13210.

HAUN, PROF. KENNETH W, b. Savannah, Ga, Nov. 23, 29; m. 53; c. 3. PSYCHOLOGY. B.A, Texas, 52, M.A, 56; Ph.D.(psychol), Hopkins, 59. Asst. prof. & asst. dir. lab. psychopharmacol, Douglass Col, Rutgers, 59-66; PROF. PSYCHOL, MONMOUTH COL.(N.J), 66- Consult, Appl. Psychol. Corp, 58-59; Animal Behav. Sect, Nat. Insts. Health, 58; Gen. Mills, Inc, 59; Paul Fine Assocs. & Wallace Labs, 66; Data Res. Inc, 66- C.Eng, U.S.A, 52-54, 1st Lt. Psychological measurement. Publ: Measures of association and verbal learning, Psychol. Reports, 60; A paradigm for experimental control of mediating verbal process, Psychonomic Sci, 65; co-auth, components of response in complex decision making, J. Exp. Soc. Psychol, 67. Address: Dept. of Psychology, Monmouth College, West Long Branch, N.J. 07764.

HAUPERT, DR. JOHN S, b. Belle Plaine, Iowa, Dec. 3, 23; m. 52; c. 2. GEOGRAPHY. A.B, Ill. Wesleyan, 47; Oslo, 48; M.A, Southern Methodist, 52; Ph.D.(geog), Syracuse, 55. Asst. prof. GEOG, Sacramento State Col, 55-62; State Univ. N.Y. Binghamton, 62-65; ASSOC. PROF, STATE UNIV. N.Y. BUFFALO, 65- Agr. Develop. Coun. res. grant, 66; State Univ. N.Y. Res. Found. res. grant, 67. Consult, arid lands inst, Univ. Arizona, 65-67. U.S.M.C, 43-46. Asn. Am. Geog; Geog. Asn. Agricultural land use in arid lands of Middle East; political geography. Publ: Impact of geographic location upon Sweden as a Baltic power, J. Geog, 1/59; Development of Israel's frontier port of Elath, 3/64 & Recent progress of Jordans' East Ghor Canal, 1/66, Prfnl. Geogr. Address: Dept. of Geography, State University of New York at Buffalo, Macdonald Hall, Buffalo, N.Y. 14214.

HAUPT, DR. ISTAR A(LIDA) (MRS. HENDERSON M. YOUNG), b. Baltimore, Md, July 8, 96; m. 39. PSYCHOLOGY. A.B, Bryn Mawr Col, 17, A.M, 18; Ph.D.(exp. psychol), Hopkins, 22. Fel. ed. & psychol, Jena, 23; interviewer, Baltimore Gas & Elec. Co, Md, 24-26; ed. dir, Stewart & Co, 26; res. assoc, Bur. Pub. Personnel Admin, Ill, 27-32; assoc. exam, State Civil Serv. Cmn, N.Y, 32-45; sr. case worker, State Dept. Pub. Welfare, Del, 46-49; dir. ed, State Sch. Girls, Maine, 49-53; personnel technician, State Dept. Personnel, 54-56; clin. psychologist, Pownal, Maine, 56-62; SCH. PSYCHOLOGIST, HALIFAX COUNTY MUNIC. SCH. BD, 63- Psychol. Asn; N.Y. Acad. Sci. Personnel; public and social administration; color blindness; clinical psychology and research in mental retardation. Address: Sheet Harbor, N.S, Can.

HAUPT, PROF. MARGARET ISABELLE, b. Ft. Dodge, Iowa, Nov. 26, 40. POLITICAL SCIENCE. B.A, Denver, 62; M.A, Fletcher Sch. Law, 63, M.A.L.D, 64; Fulbright scholar, Australian Nat. Univ, 64-65. ASST. PROF. POLIT. SCI, COE COL, 66- International politics; Australian foreign policy. Address: Dept. of Political Science, Coe College, Cedar Rapids, Iowa 52408.

HAUPTMANN, PROF. JERZY, b. Lodz, Poland, Nov. 24, 20; nat; m. 47; c. 2. POLITICAL SCIENCE, ECONOMICS. M.B.A, Univ. Innsbruck, 47, Dr.rer.pol, 48; Northwestern, 50-51. Asst. prof. POLIT. SCI, PARK COL, 51-54, assoc. prof, 54-58, PROF, 58-, CHMN. DEPT, 51-, dir. Am. Studies, 55-58, chmn. soc. sci. div, 58-60, dir. civil serv. mgt. inst, 60-66. Ed, Midwest Rev. Pub. Admin, 67-; features ed, Lutheran Scholar, 66- Polish Army, 40-45, 2nd Lt. Polit. Sci. Asn; Econ. Asn; Am. Studies Asn; Soc. Pub. Admin. American government; government administration; political theory. Publ: Dilemmas of politics; ed, Initiation into public administration, Park Col. Press, 66; auth, The reemergence of the German radical right. Cent. European Federalist, 12/67. Address: Dept. of Political Science, Park College, Parkville, Mo. 64152.

HAURY, PROF. EMIL W(ALTER), b. Newton, Kans, May 2, 04; m. 28; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Arizona, 27, A.M, 28; Ph.D. (archaeol), Harvard, 34; LL. D, New Mexico, 59. Asst. dir, Gila Pueblo, Ariz, 30-37; assoc. prof. ANTHROP, ARIZONA, 37-38, PROF, 37-, head dept, 37-64. Dir. Ariz. State Mus, 38-64. Guggenheim fel, 49-50; faculty adv, Univ. Bogota, Colombia, 58. Chmn. div. anthrop. & psychol, Nat. Res. Coun, 60-62; sect. anthrop, Nat. Acad. Sci, 60-62, mem. cmt. govt. rels, 60-61; adv. bd, Nat. Parks, Hist. Sites, Bldg. & Monuments, 64-70; Nat. Coun. Humanities, 66-68. Mem, Beam Exped, Nat. Geog. Soc, 29. Medal, Viking Fund, 50. Nat. Acad. Sci; fel. AAAS; fel. Anthrop. Asn.(v.pres, 47, pres, 55); fel. Soc. Am. Archaeol.(pres, 44); fel. Tree Ring Soc; Am. Acad. Arts. & Sci. Southwestern archaeology, Pueblo, Mogollon and Hohokam remains; early man. Publ: Co-auth, Stratigraphy and archaeology of Ventana Cave, Arizona; Excavation at Snaketown, material culture, Medallion Papers; Artifacts with mammoth remains, Naco, Arizona, Am. Antiq. Address: Dept. of Anthropology, University of Arizona, Tucson, Ariz. 85717.

HAUSE, PROF. E(ARL) MALCOLM, b. Ft. Lupton, Colo, Sept. 12, 00; m. 23; c. 1. POLITICAL SCIENCE. A.B, Union Col.(Nebr), 22; A.M, Nebraska, 24; Ph.D, Northwestern, 36. Prof. hist, Broadview Col, 29-32; Atlantic Union Col, 32-39; N.Dak. State Teachers Col, Mayville, 42-43; assoc. prof. Union Col.(Nebr), 43-47; soc. sci, Farragut Col, 47-48; asst. prof. POLIT. SCI. & HIST, IDAHO, 48-53, assoc. prof, 53-62, prof, 63-66, EMER. PROF, 66- Seventeenth Century British history; Puritan Revolution; Richard Cromwell: British Empire. Publ: India: noncommitted and nonaligned, West. Polit. Quart, 3/60; India and the Commonwealth of nations, Indian J. Polit. Sci, 7/62; The nomination of Richard Cromwell, Historian, 2/65. Address: Dept. of Social Sciences, University of Idaho, Moscow, Idaho 83843.

HAUSE, DR. HELEN E, b. Pottstown, Pa, Oct. 28, 15; m. 50; c. 1. ANTHROPOLOGY. B.A, Pennsylvania, 43, Am. Asn. Univ. Women fel. & Ph.D. (oriental studies), 47. Asst, Pennsylvania, 42-46; Chicago, 49-50; lectr. anthrop, Northwestern, 50-53; substitute, Fla. South. Col, 54-56; asst. prof. SOCIOL. & ANTHROP, WAYNE STATE, 57-65, ASSOC. PROF, 65- Fel. Anthrop. Asn. African languages and culture; linguistics. Address: Dept. of Sociology & Anthropology, Wayne State University, Detroit, Mich. 48202.

HAUSE, DR. JOHN CHAPMAN, b. Moline, Ill, June 3, 35. ECONOMICS. B.A, Carleton Col, 57; Woodrow Wilson fel, Chicago, 57-58, Earhart Found. fel, 57-60, M.A, 58, Walgreen Found. fel, 60-61, Ph.D.(econ), 62. Lectr. econ, Minnesota, Minneapolis, 61-62, asst. prof, 62-63; res. economist, Inst. Defense Anal, 63-64; asst. prof. ECON, MINNESOTA, MINNEAPOLIS, 65, ASSOC. PROF, 65-, res. grant, grad. sch, 66. Ford Found. faculty res. grant, 62; Nat. Science Found. res. grant, 67-69. Econ. Asn; Economet. Soc. Analysis of simple dynamic systems; relationships between earnings differentials, aptitude, and education; theory and applications of measuring allocational efficiency. Publ: The economic consequences of percentage depletion allowances, Nat. Tax J, 12/63; Leads, lags, and spectral analysis,

Econometrica, 10/64; The welfare costs of disequilibrium exchange rates, J. Polit. Econ, 8/66. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

HAUSER, DR. FREDERICK, b. New York, N.Y, June 13, 20; m. 47; c. 1. PSYCHOLOGY. B.A, N.Y. Univ, 41; M.A, Columbia, 42; Ph.D.(psychol), Rochester, 53. Clin. psychologist, Vet. Admin, Canadaigua, N.Y, 46-47; asst. psychol, Rochester, 47-49, clin. res. asst, 52-53; chief. clin. psychologist, Ment. Hyg. Clin, Bridgeport, Conn, 49-50; asst. prof. psychol, Hollins Col, 53-55; consult. psychologist, G. Fry & Assocs, N.Y, 55-56; V.PRES. PERSONNEL, KENYON & ECKHARDT, INC, 56- Consult. psychologist, 51-55. U.S.A, 42-46, 50-52. Psychol. Asn. Psychology of motivation; clinical psychology in industry. Address: Kenyon & Eckhardt, Inc, 200 Park Ave, New York, N.Y. 10017.

HAUSER, DR. NORBERT, Indust. Eng, Opers. Res, see 11th ed. Phys. & Biol. Vols.

HAUSER, PROF. PHILIP M(ORRIS), b. Chicago, Ill, Sept. 27, 09; m. 35; c. 2. SOCIOLOGY. Ph.B, Chicago, 29, M.A, 33, Ph.D.(sociol), 38; L.H.D, Roosevelt, 67. Chief labor inventory, Fed. Emergency Relief Admin, Wash, D.C, 34-36; asst. chief statistician, Nat. Employ. Census, 37; asst. chief statistician pop, U.S. Bur. Census, 38-42, asst. dir, 42-46, dep. dir, 46-49, acting dir, 49-50; PROF. SOCIOL. & DIR. POP. RES. & TRAINING CENTER & CHICAGO COMMUNITY INVENTORY, CHICAGO, 47- Sociologist, Payne Ed. Fund, New York, 31-33; asst. to dir, study soc. aspect of depression, Soc. Sci. Res. Coun, 37, 44-, Am. Statist. Asn. rep, problem & policy cmn, 40-52; asst. to secy. & dir, off. program planning, U.S. Dept. Commerce, D.C, 45-47; Stafford-Little lectr, Princeton, 48; O'Hara lectr, Notre Dame, 59; Wherrett lectr, Pittsburgh, 61. Consult, res. & develop. bd, Nat. Mil. Estab. U.S. rep. pop. cmt, UN, 47-51; chmn. adv. panel nat. info. sci. & tech. personnel, Nat. Sci. Found, 47-48; President's Cmt. Scientists & Engrs, 47-48; chmn, U.S. Nat. Cmt. Vital & Health Statist, U.S. Pub. Health Serv, 48-59; tech adv. cmt, 1960 Census of Pop, 58-62; cmt. urbanization, Soc. Sci. Res. Coun, 59-; mem. statist. policy cmt, U.S. Bur. Budget, 61-64; chmn. adv. panel integration pub. schs, Bd. Ed, Chicago, 63-64; tech. adv. cmt. for pop. statist, U.S. Bur. Census, 65-; dir. ed. task force, White House Conf. To Fulfill These Rights, 66; mem. bd, UN Inst. Res. Soc. Develop, Geneva, 66-; mem. coun, Nat. Inst. Child Health & Human Develop, 66- Fel. AAAS.(v.pres, Sect. K, 54); fel. Statist. Asn.(pres, 62); Sociol. Asn.(pres, 67-68); Pop. Asn.(pres, 50; Inst. Math. Statist; Int. Statist. Inst; Int. Union Sci. Study Pop. Demography; urbanism and human ecology; social statistics. Publ: Study of population: an inventory and appraisal; Urbanization in Asia and the Far East; co-auth, Study of urbanization, Wiley, 65. Address: 5729 S. Kimbark Ave, Chicago, Ill. 60637.

HAUSER, DR. WALTER, Mod. Indian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HAUSKNECHT, DR. MURRAY, b. New York, N.Y, Oct. 28, 25; m. 50; c. 2. SOCIOLOGY. B.Soc. Sci, City Col. New York, 48; M.A, Columbia, 50, Ph.D, (sociol), 61. Lectr. SOCIOL, Hunter Col, 52-59, instr, 60-62, asst. prof, 63-66, assoc. prof, 67-68; ASSOC. PROF. & CHMN. DEPT, LEHMAN COL, CITY UNIV. NEW YORK, 68- Fel. Sociol. Asn; Soc. Study Social Probs. Political sociology; urban sociology; sociological theory. Publ: The joiners: voluntary association membership in the United States, Bedminster, 61; co-auth, Urban renewal: people, politics, and planning, Doubleday, 66. Address: 33-43 14th St, Long Island City, N.Y. 11106.

HAUSMAN, DR. HOWARD J(AY), b. Brooklyn, N.Y, Feb. 4, 18; m. 43; c. 2. PSYCHOLOGY. B.A, City Col. New York, 39; M.A, N.Y. Univ, 42; Ph.D. (psychol), George Washington, 55. Asst, Coop. Test Serv, 46; dep. chief opers. performance br, human factors opers. res. labs, Air Res. & Develop. Command, 46-54, chief performance eval. br, personnel res. lab, Air Force Personnel & Training Res. Center, 54-56; proj. dir. ed. in sci, NAT. SCI. FOUND, 56-61, prog. dir. student & coop. prog, 61-67, HEAD STUDENT & CURRICULUM IMPROV. SECT, 67- U.S.A.A.F, 42-45. Psychol. Asn. Education of talented children; evaluation of operational programs; curriculum and teaching improvement in the classroom. Address: National Science Foundation, 1800 G St. N.W, Washington, D.C. 20550.

HAUSRATH, ALFRED H(ARTMANN), JR, b. New York, N.Y, May 1, 01; m. 23; c. 3. SOCIAL SCIENCE. B.S, Iowa State, 22, M.S, 29; Columbia, 26; Iowa, 33-35. From instr. to asst. prof. & dir. student teaching in sci, Iowa State, 28-42; training specialist & personnel mgt. adv, Exec. Off. President, 42-45; adminstr, Off. Naval Res, 45-49; dir. coop. test div, ed. testing serv, Princeton, 49-51; res. leader, opers. res. off, Hopkins, 51-61, chief strategic div, 61, Res. Anal. Corp, 61-62, conflict anal. div, 62-64, mil. gaming div, 64-65, mem. res. coun, 66; INDEPENDENT RES. & CONSULT, 66- Lectr, American Univ, 47-49. Staff mem, President's Adv. Cmt. Ed, 37; supvr. teaching mat. staff, Armed Forces Inst, 42; Exec. Off. President, 42-43; training adv, sci. personnel, U.S. Civil Serv. Cmn, 43-44; staff consult. to dir. mil. assistance prog, U.S. Dept. State, 49; mem. adv. group, Vietnam, 56-57; consult, Res. Anal. Corp, Va, 66- UN Command Serv. Medal, Korea, 53. Fel. AAAS; Personnel & Guid. Asn; Opers. Res. Soc. Development and utilization of human resources; public administration; technical assistance to developing areas; civil military relations; cold war; political and military gaming and simulation. Publ: Utilization of Negro manpower in the Army; Problems in the development of a local national army (Korea); Civil affairs in the cold war. Address: 120 Hilltop Rd, Silver Spring, Md. 20910.

HAUTY, DR. GEORGE T(HOMAS), Psychol, see 11th ed. Phys. & Biol. Vols.

HAVARD, PROF. WILLIAM C(LYDE), JR, b. Canton, Miss, Sept. 26, 23; m. 45; c. 1. POLITICAL SCIENCE. B.A, La. State, 43, M.A, 47; South. Fels Fund fel, London, 55-56, Ph.D, 56. Asst. prof. polit. sci, Northwest. State Col.(La), 49-52; La. State, 52-53; Florida, 53-56, assoc. prof, 56-57, acting dir. pub. admin. clearing serv, 54-55, dir, 55-57; assoc. prof. polit. sci, La. State, 57-60, prof, 60-64, chmn. dept. govt, 61-64; PROF. GOVT. & HEAD DEPT, MASSACHUSETTS, 64- Res. assoc, State Legis. Coun, 53, 58; temporary res. dir, State Constitutional Adv. Cmn, Fla, 55; Fulbright lectr, Germany, 60-61. U.S.A, 43-46, 1st Lt. Polit. Sci. Asn; Soc. Polit. & Legal Philos. Political philosophy; American government; public administration; political parties. Publ: The government and politics of the United States, Harper, N.Y, 65, Hutchinson, London, 65 & Bonniers, Stockholm, 66; Henry Sidgwick and later utilitarian political philosophy; The politics of misrepresentation. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

HAVEL, PROF. J(EAN) E(UGÈNE) M(ARTIAL), b. Le Havre, France, June 16, 28; Can. citizen; m. 55; c. 3. B.A, Lycée Voltaire, Paris, France, 46; LL.B, Sorbonne, 50, M.A, 52, Norweg. govt. scholar, 53-54, Swedish Inst. fel, 54-55, Ph.D.(sociol), 56. Coun. Europe scholar. to Scandinavia, 57-58; asst. prof. POLIT. SCI, Montreal, 59-62; LAURENTIAN, 62-64, ASSOC. PROF, 64-, ACTING HEAD DEPT, 66- Lectr, 20 countries through Int. Radiophone & TV Univ, Paris, 67-68; New Brunswick, 68; Can. Coun. fel, 68-69. Mem. exec. cmt, Soc. Sci. Res. Coun. Can, 68- Can. centennial medal, 68. Am. Polit. Sci. Asn; Can. Polit. Sci. Asn. Political behavior and doctrines; social problems; Canadian government. Publ: Politics in Sudbury, Laurentian Univ, 68; Le socialisme Scandinave; La condition de la femme. Address: Dept. of Political Science, Laurentian University, Faculty of Arts & Sciences, Sudbury, Ont, Can.

HAVEMAN, DR. ROBERT HENRY, b. Grand Rapids, Mich, July 22, 36; m. 57; c. 2. ECONOMICS. B.A, Calvin Col, 58; Ph.D.(econ), Vanderbilt, 63. Instr. ECON, Vanderbilt, 61-62; GRINNELL COL, 62-63, asst. prof, 63-66, ASSOC. PROF, 66- Brookings res. prof, 65-66. Econ. Asn. Use of benefit-cost and other public expenditure criteria, especially as they are applied in the natural resources area. Publ: Water resource investment and the public interest, Vanderbilt, 65; co-auth, The market system, Wiley, 66. Address: Dept. of Economics, Grinnell College, Grinnell, Iowa 50112.

HAVEMEYER, DR. LOOMIS, b. Rye, N.Y, June 7, 86. ANTHROPOLOGY. Ph.B, Yale, 10, A.M, 12, Ph.D.(anthrop), 15. Instr. & asst. prof. ANTHROP, YALE, 12-41, ASSOC. PROF, 41-, DIR. UNDERGRAD. SCHEDULES, 54-, registr, Sheffield Sci. Sch, 20-29, asst. dean, 29-41, assoc. dean, 41-45, registr, sch. eng, 32-54, dir. undergrad. registrn, 45-48, assoc. dean undergrad. activities & registrn, 48-54. AAAS; Anthrop. Asn. Drama of savage people; ethnography; conservation of natural resources. Address: 105 Grove St, New Haven, Conn. 06510.

HAVEN, DR. S(ETH) EDSON, b. Austinville, Pa, Mar. 5, 05; m. 47. PSYCHOLOGY. B.S, Ohio, 27; M.A, Ohio State, 28, Ph.D.(indust. psychol), 33; scholar, Columbia, 29. Asst. PSYCHOL, Ohio, 27-28; instr, Kentucky, 28-29; asst, Ohio State, 29-30, instr, 30-33, asst. prof, 35-36; Denison, 33-34; Ohio Wesleyan, 34-35; instr, WAYNE STATE, 36-38, asst. prof, 38-43, ASSOC. PROF, 43- Fel. AAAS; fel. Psychol. Asn; Statist. Asn. Psychological measurements; traffic control; hotel personnel. Address: Dept. of Psychology, Wayne State University, Detroit, Mich. 48202.

HAVENS, DR. A(RTHUR) EUGENE, b. Brooks, Iowa, Dec. 22, 36; m. 60; c. 2. SOCIOLOGY. B.S, Iowa State, 59; M.S, Ohio State, 60, Ph.D.(sociol), 62. Asst. to dean men, Ohio State, 59-61, asst. dean men, 61, teaching asst. sociol, 60, res. asst, 60-61, instr, 61-62, ASST. PROF, 62-63; SOCIOL. & RURAL SOCIOL, WISCONSIN, MADISON, 63- Fulbright res. prof, Nat. Univ. Colombia, 62-63; dir. res, land tenure center, Univ. Wisconsin & Nat. Univ. Colombia, 63-64; Cornell Univ. rural sociol, award, 66. U.S.A, 66-68, Capt. Sociol. Asn; Rural Sociol. Soc; Soc. Appl. Anthrop; Colombian Sociol. Asn. Social factors in economic development; social change; theoretical formulation of macrosociological models of societal development. Publ: Tamesis: estructura y cambio, Tercer Mudo Press, Bogota, Colombia, 66; Increasing the effectiveness of prediction innovativeness, Rural Sociol, 65; co-auth, The use of socio-economic research in developing a strategy for change in rural communities, Econ. Develop. & Cultural Change, 66. Address: Dept. of Rural Sociology, 240 Agricultural Hall, University of Wisconsin, Madison, Wis, 53706.

HAVENS, DR. JOSEPH, b. Kansas City, Mo, Apr. 1, 19; m. 47; c. 2. PSYCHOLOGY. M.A, Southern California, 51; Ph.D, Chicago, 56. Asst. prof. psychol, Wilmington Col, 53-57; asst. prof. psychol. & counsr, Carleton Col, 57-63; CLIN. PSYCHOLOGIST, UNIV. HEALTH SERV, MASSACHUSETTS, AMHERST, 63- Psychol. Asn. Therapeutic counseling; religion and psychology; philosophy of psychological science. Publ: Self-power and other-power in psychotherapy and religious experience, J. Counseling Psychol; The participant's vs. the observer's frame of reference in the psychological study of religion, J. Sci. Study of Relig. Address: University Health Service, University of Massachusetts, Amherst, Mass. 01002.

HAVENS, DR. MURRAY C(LARK), b. Council Grove, Kans, Aug. 21, 32; m. 58. POLITICAL SCIENCE. A.B, Alabama, 53; Woodrow Wilson fel, Hopkins, 53-54, M.A, 54, Ph.D.(polit. sci), 58. Fel. govt, Brookings Inst, 58-59; asst. prof. polit. sci, Duke, 59-61; vis. lectr. GOVT, TEXAS, 61, asst. prof, 61-65, ASSOC. PROF, 65- Vis. lectr, Univ. Sydney, 66. U.S.A, 54-56, 1st Lt. Polit. Sci. Asn. Political pressures on legislative bodies; political behavior in policy making; American political parties and pressure groups; political extremism; the far right; political socialization; political organization and leadership. Publ: City versus farm, Univ. Alabama, 57; The challenges to democracy, Univ. Texas, 65; Metropolitan areas and congress, J. Polit, 64. Address: Dept. of Government, University of Texas, Austin, Tex. 78712.

HAVENS, PROF. R(ALPH) MURRAY, b. Mound City, Kans, June 10, 04. INTERNATIONAL ECONOMICS. A.B, Baker, 27; M.B.A, Kansas, 33; Ph.D, Duke, 41. Instr. acct, Duke, 38-41; asst. prof. ECON, Baldwin-Wallace Col, 41-43; assoc. prof, ALABAMA, 46-52, PROF, 52-, HEAD DEPT, 54-, ASSOC. DEAN INT. PROGS, 68- Analyst, Off. Price Admin, 43; specialist, off. spec. rep, Econ. Coop. Admin, 48-49; int. trade analyst, Sterling area desk, Mutual Security Agency, 51-52; State Dept. exchange lectr, Univ. Col, Dublin, 58-59. U.S.A, 43-46, Capt. Econ. Asn; Econ. Hist. Asn; Royal Econ. Soc. European economic trends; economic theory. Publ: Co-auth, Economics: principles of income, prices, and growth 66 & Workbook and study guide to accompany economics: principles of income, prices and growth, 66, Mac-

millan; auth, German recovery: a study in economic planning, In: Economic systems and public policy, Duke, 66. Address: 2008 14th St. E, Tuscaloosa, Ala. 35401.

HAVER, PROF. CECIL B(ERDEEN), b. Canora, Sask, Jan. 17, 23; m. 50; c. 6. AGRICULTURAL ECONOMICS. B.S, Saskatchewan, 46; Rosenburg scholar, California, 46-47; M.S, 47; Agr. Inst. Can. scholar, Iowa State Col, 47-48, Ph.D, 54. Asst, Iowa State Col, 47-49; asst. prof. agr. econ. & agr. economist, exp. sta, N.Dak. State, 49-55; res. assoc, econ. res. center, Chicago, 55-59; ASSOC. PROF. ECON, McGILL, 59- Econ. Asn; Economet. Soc; Agr. Econ. Asn. Economics of farm size; decision making principles in farm management; economic analysis of evaluation practices for water resource development. Address: Dept. of Economics, Macdonald College, McGill University, Montreal, Que, Can.

HAVERFIELD, PROF. ROBERT WALTER, Journalism, Advertising, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

HAVERKAMP, DEAN HAROLD J(UDSON), b. Monroe, S.Dak, July 29, 12; m. 40; c. 6. PSYCHOLOGY. Ph.D.(psychol), Iowa, 51. Prof. psychol, Hope Col, 46-52; prof. psychol. & dean, Cent. Col.(Iowa), 52-62; ACAD. DEAN, HANOVER COL, 62- U.S.N, 43-46. Psychol. Asn. Learning; counseling. Address: Hanover College, Hanover, Ind. 47243.

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HAVILAND, DR. WILLIAM ARTHUR, b. Philadelphia, Pa, Mar. 3, 34; m. 60; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. A.B, Pennsylvania, 56, M.A, 58, Ph.D.(anthrop), 63. Anthropometrist, Phila. Center Res. Child Growth, 58-59, res. asst, 59-60; lectr. ANTHROP, Hunter Col, 62-63; ASST. PROF, Barnard Col, Columbia, 63-65; VERMONT, 65- Res. assoc, Tikal proj, Univ. Pennsylvania Mus, 60-; faculty summer res. fels, Vermont, 66 & 67; Nat. Sci. Found. res. grant, 67-69. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; Asn. Phys. Anthrop. Physical anthropology of the Maya; reconstruction of prehistoric Maya social, political, and economic organization. Publ: Maya settlement patterns: a critical review, 66 & Ancient lowland Maya social organization, 68, Middle Am. Res. Inst, Tulane; Stature at Tikal, Guatemala: implications for ancient Maya demography and social organization, Am. Antiq, 67. Address: Dept. of Sociology & Anthropology, Old Mill Bldg, University of Vermont, Burlington, Vt. 05401.

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HAWLEY, PROF. AMOS H(ENRY), b. St. Louis, Mo, Dec. 5, 10; m. 37; c. 4. SOCIOLOGY. A.B, Cincinnati, 36; A.M, Michigan, 38, Ph.D.(sociol), 41. Instr. sociol, Michigan, 41-44, asst. prof, 44-47, dir. soc. sci. res. proj, 46-66, assoc. prof. SOCIOL, 47-51, chmn. dept, 52-61, PROF, 52-66; NORTH CAROLINA, 66- Res. assoc, Scripps Found, 50-52; vis. prof, Philippines, 53-54; Fulbright res. award, 59. Pop. Coun. rep. & demog. adv, Govt. Thailand, 64-65. Sr. consult, opers. res. off, U.S. Dept. Army, 49-54; human rels. res. inst, U.S. Dept. Air Force, 51-52. Fel. AAAS; Sociol. Asn; Pop. Asn.(1st v.pres); Statist. Asn; Sociol. Res. Asn. Urban community; population distribution. Publ: Co-auth, Principles of sociology; Human ecology; Changing shape of metropolitan America. Address: Dept. of Sociology, University of North Carolina, Chapel Hill, N.C. 27514.

HAWLEY, DEAN CLAUDE E(DWARD), b. Milwaukee, Wis, Nov, 11, 14. POLITICAL SCIENCE. A.B, Chicago, 35, Ph.D.(polit. sci), 39. Instr. bus. & pub. admin, Missouri, 39-40; from asst. prof. to prof. soc. sci, Florida, 40-46; assoc. prof. polit. sci. & pub. admin, Southern California, 46-48; chief soc. sci, div. higher ed, U.S. Off. Ed, 48-51; ed. & res, Nat. Security Resources Bd, 51-52; consult. res, U.S. Govt, 52-55; dep. chief info. center serv, U.S. Info. Agency, 55-60; Nat. Security Coun, 60; consult. econ. & bus, 60-63; prof. polit. sci. & assoc. dean grad. studies, City Univ. N.Y, 63-66, prof, polit. sci, Queens Col.(N.Y), 66-67, PROF. POLIT. SCI. & DEAN GRAD. STUDIES, JOHN JAY COL, CITY UNIV. NEW YORK, 67- Consult, U.S. Off. Ed, 66- Field secy. to mayor, Los Angeles, Calif, 47-48. U.S.A, 42-46, Res, 35-65, Col. Polit. Sci. Asn; Soc. Pub. Admin. Political science instruction; public and educational administration. Publ: Co-auth, Administrative questions and political answers, Van Nostrand, 66; Structure of the state, tax-supported system of high education in Illinois; Goals for political science. Address: 5 Tudor City Place, New York, N.Y. 10017.

HAWLEY, DR. DOROTHEA BURTON, b. Niagara Falls, N.Y, Aug. 27, 17; m. 55. GEOGRAPHY. B.S, State Univ. N.Y, 38; M.A, Clark, 47, fel, 47-49, Ph.D.(geog), 49. Air intel. specialist, U.S. Air Force, Wash, D.C, 49-52, INTEL. RES. SPECIALIST, 56-64; DEFENSE INTEL. AGENCY, 65- U.S.M.C.R, 43-45, 52-56, Maj. Asn. Am. Geog; Asn. Latin Am. Studies. Latin America. Address: 6541 Cedarwood Court, Barcroft Woods, Falls Church, Va. 22041.

HAWLEY, PROF. HENRY CHARLES, b. Avon, Conn, Aug. 31, 00; m. 25; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. A.B, Oberlin Col, 23; M.B.A, Harvard, 25, D.C.S, 30. Trainee, C. & G. Cooper Co, Ohio, 25-26; asst.

econ, Massachusetts, 26-27; instr. mkt, bus. sch, Harvard, 29-31, vis. lectr. bus. admin, 42-46; prof. econ. & head dept, Hobart Col, 31-42; prof. bus. & econ, MAINE, 46-67, acting head dept. & acting dir. bus. sch, 61-67, EMER. PROF. BUS. & ECON, 67- Lectr, Hawaii, 56-57. Consult, Hawaiian Elec. Co, 56-57; Maine Sardine Coun, 58-59. Economics of the firm; production and marketing cost estimates; new industry studies. Address: College of Business Administration, University of Maine, Orono, Maine 04473.

HAWLEY, PROF. LANGSTON T(HACKER), b. Houston, Tex, Nov. 17, 09. INDUSTRIAL RELATIONS. B.S, Alabama, 32, M.S, 33; Ph.D, North Carolina, 46. Instr, Alabama, 33-38; chief div. res, State Unemploy. Compensation Cmn, Ala, 37-38; statistician, bur. bus. res, Alabama, 38-39; instr, North Carolina, 40-42; state price exec, Off. Price Admin, Ala, 42-43; assoc. prof. MGT, ALABAMA, 46-50, PROF, 50-, HEAD DEPT, 66- Labor arbitrator. U.S.N, 43-45, Lt. Indust. Rels. Res. Asn; Acad. Arbit. Labor economics and relations; wage administration and policy. Publ: Mobile: an economic appraisal; Negro employment in the Birmingham metropolitan area; co-auth, Alabama's manufacturing economy. Address: Dept. of Management, University of Alabama, Box 1384, University, Ala. 35486.

HAWORTH, PROF. B. SMITH, b. Noel, Mo, Feb. 8, 93. POLITICAL SCIENCE. A.B, Ottawa (Kans), 17; A.M, Chicago, 27; Pennsylvania, 46. Teacher, supt. & v.prin, high schs, Kans, 18-42; assoc. prof. HIST. & POLIT. SCI. & head dept. & dean men, OTTAWA (KANS), 42-67, EMER. ASSOC. PROF, 67- Lincoln's prestige. Publ: Ottawa University, its history and its spirit. Address: Dept. of History & Political Science, Ottawa University, Ottawa, Kans. 66067.

HAWORTH, DR. MARY R(OBBINS), b. Chicago, Ill, Jan. 31, 11; m. 33; c. 3. CLINICAL & CHILD PSYCHOLOGY. A.B, Illinois, 32; M.S, Iowa State, 33; Ph.D.(child develop), Pa. State, 56. Head teacher, Child Welfare Res. Sta, Iowa, 33-35; instr. child develop. & psychol, Pa. State, 53-56; instr. clin. psychol, Mich. State, 56-59, asst. prof, 59-61; assoc. prof. med. psychol, col. med, Nebraska, 61-67; CHIEF RES. SCIENTIST, DEVELOP. SECT, NAT. INST. MENT. HEALTH, 67- Sr. clin. psychologist, children's serv, Nebr. Psychiat. Inst, 61-67. Fel. Psychol. Asn; Soc. Proj. Tech.(secy, 66); Soc. Res. Child Develop; fel. Orthopsychiat. Asn. Projective techniques and differential diagnosis with children; child psychotherapy; developmental psychology. Publ: Co-auth, Projective techniques with children, 60 & auth, The C.A.T: facts about fantasy, 66, Grune; Child psychotherapy, Basic Books, 64. Address: Research Development Program, National Institute of Mental Health, 5454 Wisconsin Ave, Chevy Chase, Md. 20203.

HAWRYLUK, DR. ALEX, b. Westhampton, N.Y, Nov. 4, 29; m. 53; c. 2. ORGANIZATION BEHAVIOR, SOCIOLOGY. B.S, Cornell, 51; Princeton, 51-52; M.B.A, Siena Col, 58; Kennecott Copper fel, Cornell, 66-67, Ph.D.(orgn. behav), 67. Field rep. indust. & labor rels, Cornell, 52-60; dir. inst. mgt, Col. William & Mary, 60-64; ASSOC. PROF. MGT, OLD DOM. COL, 67- Sig.C, U.S.A, 52-54, Adj.Gen.C, Res. Emergence and viability of community-organization based black power organizations and reactions of white liberal organizations to them. Address: School of Business, Old Dominion College, Norfolk, Va. 23508.

HAWTHORN, DR. H(ARRY) B(ERTRAM), b. Wellington, N.Z, Oct. 15, 10; nat. Can; m. 35; c. 2. ANTHROPOLOGY. B.Sc, New Zealand, 32, M.Sc, 34, B.A, 37; Hawaii, 38-39; Ph.D, Yale, 41. Mem. dept, ANTHROP, Sarah Lawrence Col, 42-47; PROF, BRITISH COLUMBIA, 47-, dir, Doukhobor Res. Cmt, 50-52, Indian Res. Proj, 54-55. Guggenheim fel, 59; dir, Indian res. proj, Can. Govt, 64-67. Mem. Soc. Sci. Res. Coun. Can, 56-59; Can. Coun. Acad. Panel, 65-68; mem. regional cmt. XIV, Woodrow Wilson Nat. Fel. Found, 65, chmn, 66. Fel. Am. Anthrop. Asn; fel. Royal Soc. Can; Can. Asn. Sociol. & Anthrop.(hon. pres, 67-). Culture change in the Pacific; administration and the tribes of the Pacific Northwest coast. Publ: The Maori: a study in acculturation; co-auth, Indians of British Columbia; co-auth, Survey of the contemporary Indians of Canada, Queen's Printer, Can, 67. Address: Dept. of Anthropology & Sociology, University of British Columbia, Vancouver, B.C, Can.

HAWTHORN, PROF. HORACE BOIES, Sociol, see 10th ed, Soc. & Behav. Vols.

HAY, DR. DONALD G(ORDON), b. Hannah, N.Dak, Oct. 8, 01; m. 27; c. 3. SOCIAL SCIENCE. B.S, N.Dak. State, 26, M.S, 27; Ph.D.(sociol), Minnesota, 47. Instr. pub. discussion & soc. serv, N.Dak. State, 27-35, rural sociologist, agr. exp. sta, 35-37, head dept. rural sociol, 37-40; soc. sci. analyst, econ. res. serv, U.S. Dept. Agr, 40-61; MED. ECONOMIST, div. prog. res, Soc. Security Admin, 61-63; DIV. MED. CARE ADMIN, U.S. PUB. HEALTH SERV, 63- Med. sociologist, sch. med, Arkansas, 54-56. Consult, Nat. Resources Planning Bd, 39-40; Michigan Inter-Univ. Coop. Seminar, 63-64. Fel. Pub. Health Asn; Rural Sociol. Soc. Health care expenditures and insurance; organization of health care resources. Publ: Co-auth, Health care practices in the Windham Community Hospital rural area, Univ. Connecticut, 63, Independent health insurance plans in the U.S, 1961, Soc. Security Admin, 63 and Utilization and costs of nursing home services in selected states, Pub. Health Serv, 67. Address: Division of Medical Care Administration, U.S. Public Health Service, 800 N. Quincy St, Arlington, Va. 22203.

HAY, DR. JANET M, b. Rossburn, Man, Feb. 28, 17. PSYCHOLOGY. B.A, Manitoba, 37; M.A, McMaster, 61, fel, 60-62, Ph.D.(psychol), 63. Registered nurse, Can. Dept. Vet. Affairs Hosps, 42-44, head nurse, 44-46; overseas reporter, Winnipeg Free Press Weekly, 47-48; registered nurse, Can. Red Cross Soc, 49-52, blood donor area organizer, 53-58; clin. psychologist, Ont. Hosp, 62-63; lectr. psychol. & dean women, WATERLOO LUTHERAN, 63-64, asst. prof. PSYCHOL, 64-68, ASSOC. PROF, 68- Can. Psychol. Asn; Am. Psychol. Asn. Perceptual learning; development of sensory processes and perception. Publ: Co-auth, The practice effect in recognition threshold, Can. J. Psychol, 62. Address: Dept. of Psychology, Waterloo Lutheran University, Waterloo, Ont, Can.

HAY, DR. JOHN CAMERON, b. Fargo, N.Dak, Feb. 5, 32; m. 55. EXPERIMENTAL PSYCHOLOGY. A.B, Cornell, 53, U.S. Pub. Health Serv. fel, 56-57, Ph.D, 61; M.A, Swarthmore Col, 56. Instr. psychol, Oberlin Col, 58-59; assoc. psychologist cognitive systs, Cornell Aeronaut. Lab, 59-60; asst. prof. PSYCHOL, SMITH COL, 60-64, ASSOC. PROF, 64- Nat. Insts. Health sr. fel, Mass. Inst. Tech, 66-67. Psychol. Asn; Psychonomic Soc. Perception and perceptual learning. Publ: Visual and proprioceptive adaptation, J. Exp. Psychol, 2/66; Optical motions and space perception, Psychol. Rev, 11/66; Altered eye movement-head movement correlation, Science, 4/68. Address: Pierce Hall, Smith College, Northampton, Mass. 01060.

HAY, LOUIS, b. Brooklyn, N.Y, Mar. 4, 04; m. 36. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 26; M.A, N.Y. Univ, 42. Counsr, jr. high sch, N.Y, 36-48; clin. psychologist, bur. child guid, BD. ED, NEW YORK, 48-59, clin. coordinator guid. prog. disturbed children, 59-65, CLIN. ADMINSTR. JR. GUID. CLASSES PROGS. & ASST. DIR. BUR. SOCIALLY MALADJUSTED, 65- Lectr, City Col. New York, 50-57; Bank St. Col, 59-64; adj. assoc. prof, Yeshiva, 63-64; dir. inst. therapeut. ed, Postgrad. Center Ment. Health, 67- Mem, Coun. Study Behav. Disorders, 67- Coun. Except. Children; Psychol. Asn; fel. Orthopsychiat. Asn. School therapeutic resources for disturbed children, including clinical identification derived from major school dimensions; probing schools as therapeutic communities, particularly in large urban centers. Publ: Special class for disturbed children, In: Pathways to guidance; co-auth, Personality aspects of teaching, Genetic Psychol. Mongr, 64; The junior guidance classes program, In: Public education of disturbed children, C.C. Thomas, 67. Address: 531 E. 20th St, New York, N.Y. 10010.

HAY, PROF. ROBERT D, b. LaPorte, Ind, Nov. 17, 21; m. 44; c. 2. BUSINESS ADMINISTRATION. B.S, Oklahoma, 49, M.B.A, 50; Ph.D.(bus. admin), Ohio State, 54. Instr. BUS. ADMIN, ARKANSAS, 49-51, asst. prof, 51-55, assoc. prof, 55-59, PROF, 59- Mgt. consult, 49- U.S.A.F, 42-47, Res, 47-, Lt. Col. Business communication; management; programmed instruction; case writing. Publ: Co-auth, Business report writing, Irwin, 57; auth, Written communications for business administration, 65 & Introduction to business organization, 68, Holt. Address: College of Business Administration, University of Arkansas, Fayetteville, Ark. 72701.

HAYAKAWA, PROF. SAMUEL ICHIYE, b. Vancouver, B.C, July 18, 06; nat; m. 37; c. 3. LINGUISTICS. B.A, Manitoba, 27; M.A, McGill, 28; Ph.D, Wisconsin, 35; hon. D.F.A, Calif. Col. Arts & Crafts, 56. Asst. Eng, Wisconsin, 30-36, instr, exten, 36-39; from instr. to assoc. prof, Ill. Inst. Tech, 39-47; lectr. semantics, Chicago, 50-55; PROF. ENG, SAN FRANCISCO STATE COL, 55- Sloan vis. prof, Menninger Sch. Psychiat, 61. Mem. supvry. bd, Funk & Wagnalls Dictionaries. Fel. AAAS; fel. Psychol. Asn; Anthrop. Asn; Int. Soc. Gen. Semantics (ed, ETC, 43-; pres, 49-50); Mod. Lang. Asn; Speech Asn; Int. Coun. Psychol. Semantics; relation of language and symbolism to thought and behavior; social consequences of language habits. Publ: Language in action, 41 & Language in thought and action, 49, rev, 64, Harcourt; ed, Modern Guide to Synonyms, 68. Address: 225 Eldridge Ave, Mill Valley, Calif. 94941.

HAYCRAFT, GLENN G(OODWIN), b. Winnie, Tex, Aug. 25, 11; m. 35; c. 3. ECONOMICS. A.B, George Washington, 40, M.B.A, 61. Sr. economist, War Prod. Bd. & Civilian Prod. Admin, 41-47; econ. statistician, rubber div, Off. Domestic Commerce, 47-50; bus. specialist, off. small bus, U.S. Dept. Commerce & Nat. Prod. Authority, 50-51; chief, prog. & requirements br, copper div, Nat. Prod. Authority, 51-52; bus. & defense serv. admin, U.S. Dept. Commerce, 52-58, coordinator econ. studies, 58-67; MEM. FACULTY, LUTHER RICE COL, 68- U.S.N.R, 44-46, Lt. Comdr. Copper; rubber; housing. Publ: Copper industry, U.S. Dept. Commerce Quart. Report. Address: Luther Rice College, Alexandria, Va. 22310.

HAYDEN, DR. ROBERT G(EORGE), b. Vienna, Austria, Aug. 23, 25; nat; m. 50. SOCIAL PSYCHOLOGY. B.A, Bridgeport, 51; Ph.D.(soc. psychol), Pennsylvania, 58. Asst. imagery & psychopath, univ. hosp, Pennsylvania, 52, soc. psychol, psychol. lab. & clinic, 52-54, invest, inst. coop. res, 55-57, task dir, 58-60, co-dir. proj. dawn, univ, 60-63; res. psychologist, U.S. Pub. Health Serv, 63-65; sr. soc. sci. analyst, soc. & rehab. serv, DEPT. HEALTH, ED. & WELFARE, 65-67, CHIEF RES, OFF. CIVIL RIGHTS, OFF. SECY, 68- Res. assoc. lang. resources proj, grad. ed. sch, Yeshiva, 60- Asst. exec. dir, Interagency cmt. Mexican Am. Affairs, White House, 66- AAAS; Psychol. Asn. Psychology, poverty, work and training incentive effects, income maintenance; value system change, self image, expectations, aspirations, acculturation, social marginality, status; retention of non-English mother tongues; Spanish Americans; psychopharmacology. Publ: Co-auth, Surgeon general's report on smoking, U.S. Pub. Health Serv, 64, Language loyalty in the United States, Moulton, 66 and Evidence for conflict resolution and impression formation, J. Abnorm. & Soc. Psychol, 55. Address: 7306 Willow Ave, Takoma Park, Md. 20012.

HAYDEN, PROF. SHERMAN S(TRONG), b. Cleveland, Ohio, Feb. 9, 08. INTERNATIONAL RELATIONS. A.B, Harvard, 30, LL.B, 33; A.M, Columbia, 36, Ph.D, 42. Asst. to pres, For. Policy Asn, 42-44; mem. staff, Off. Naval Hist, 44-46; asst. prof, CLARK, 46-49, assoc. prof. INT. RELS, 49-56, PROF, 56-, CHMN. DEPT. HIST, GOVT. & INT. RELS, 62- Polit. Sci. Asn; Acad. Polit. Sci; Am. Soc. Int. Law. International organization; international protection of wild life. Address: Dept. of History, Government & International Relations, Clark University, Worcester, Mass. 01610.

HAYDEN, DR. SPENCER J(AMES), b. New York, N.Y, Sept. 18, 22; m. 50; c. 4. PSYCHOLOGY. B.S, St. John's Col, 42; M.A, Columbia, 46; Ph.D, Fordham, 51. Personnel mgr, Lumbermen's Casualty Co, 51-52; training dir, Metal & Thermit Corp, 52-55; asst. mgr. personnel div. & ed, supv. develop. serv, Am. Mgt. Asn, 55-56; consult, Richardson, Bellows, Henry & Co, 56-57; sr. consult, Booz, Allen & Hamilton, 57-61; V.PRES. & SECY, RICHARDSON, BELLOWS, HENRY & CO, 61-63; PRES, SPENCER HAYDEN CO, INC, 63-; PROF. MGT. & EXEC. DIR, CENTER INT. MGT. STUDIES, HARTFORD GRAD. CENTER, RENSSELAER POLYTECH, 66- Adj. prof, grad. sch. eng, N.Y. Univ, 55-66; instr, Columbia, 56-57; lectr, Pa. State, 57- Dir, World Affairs Coun, 67- Consult, Nat. Soc. Welfare Assembly, 54-55; Ford Found, 64-66; UN, 65- U.S.A.A.F, 42-46, Lt. Psychol. Asn; Soc. Adv. Mgt; Int. Asn. Appl. Psychol. Operations research models for long-range industrial planning; international management. Publ: The role

of professional association in economic development of emerging nations, UN, 67; A look at technological breakthroughs forecasted for the year 2000, Rensselaer Rev, 67; International operations, In: The personnel job in a changing world, Am. Mgt. Asn, 64. Address: 166 Farrington Ave, Philipse Manor, N.Y. 10591.

HAYDON, DR. RANDALL BENNETT, b. Buffalo, N.Y, Mar. 4, 31; m. 55; c. 4. FINANCE. B.B.A, Massachusetts, 54, M.B.A, 58; Gen. Elec. & Chicago Fed. Reserve Bank fels. & Ph.D.(econ), Illinois, 62. From asst. prof. to assoc. prof. FINANCE, Kent State, 61-66; ASSOC. PROF, INDIANA, 66- U.S.A, 55-57. Econ. Asn; Finance Asn; Inst. Mgt. Sci. Business finance, cost of capital under uncertainty, portfolio problem applied to real investments. Publ: Co-auth, A quantitative framework for financial management, Irwin, 68 & A model of commercial bank earning assets selection, J. Financial & Quant. Anal, 6/66. Address: Dept. of Finance, Graduate School of Business, Indiana University, Bloomington, Ind. 47401.

HAYDU, DR. GEORGE G(REGORY), b. Oroshaza, Hungary, Feb. 18, 11; nat; m. 49; c. 2. EXPERIMENTAL MEDICINE. M.D, Szeged, 33. Asst, inst. pharmacodynamics, Szeged, 34; Emery fel, Metropolitan Hosp, 35-36, fel. psychosomatics, 36-39; asst. vis. physician, GOLDWATER MEM. HOSP, 39-45, VIS. PHYSICIAN & CHIEF SERV, 46-; PRIN. RES. SCIENTIST PSYCHIAT, CREEDMOOR INST. PSYCHOBIOL. STUDIES, 66-, assoc. res. scientist, 59-66. Asst. attend. physician, Flower & Fifth Ave. Hosps. & Community Hosp, 39-49. Dipl, Am. Bd. Psychiat. & Neurol, 64. Fel. AAAS; fel. Psychiat. Asn; Soc. Pharmacol. Psychopharmacology; integrative psychiatry; cultural evolution; morphology and conveying of affects; configurations of individuality; dynamics and morphology of drive modifications; event-experience patterns. Publ: The architecture of sanity, Julian, 58; Manic-depressive rhythm: its pharmacological modification and the nature of the self structure, Ann. N.Y. Acad. Sci, 10/62; Integrative psychotherapy Advances Psychosom. Med, 63. Address: 46 Redbrook Rd, Great Neck, N.Y. 11024.

HAYEK, PROF. F(RIEDRICH) A(UGUST VON), Econ, see 10th ed, Soc. & Behav. Vols.

HAYES, DR. CHARLES L(EONARD), b. Baton Rouge, La, Dec. 16, 21; m. 49; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Leland Col, 47; Ed.M, Loyola, 49; Ed.D, Colo. State Col, 58. Teacher, Douglass Elem. Sch, 48-49; instr, Agr. & Tech. Col, N.C, 49-52, asst. prof, 52-58, prof. psychol. & guid, 58-67, chmn. dept. ed. & psychol, 61-67; CHIEF, DEVELOP. INST. BR, BUR. HIGHER ED, OFF. ED, 67- Am. Coun. Ed. fel. acad. admin, George Washington, 66-67. U.S.N.R, 42-46. Guid. & Personnel Asn. Tests and measurement; guidance. Address: 1915 Belcrest Dr, Greensboro, N.C. 27406.

HAYES, PROF. DOUGLAS A(NDERSON), b. U.S, Feb. 27, 18; m. 41; c. 3. FINANCE, ECONOMICS. A.B, Michigan, 39, M.B.A, 40, Ph.D, 49. Res. assoc. security anal, Investment Counsel, Inc, 40-42; PROF. FINANCE, MICHIGAN, 49- Lectr, Investment Analysts Seminar, 61-62; Life Officers Investment Seminar, 62; Ford Found. faculty fel, 63-64. Dir. Security Bank of Lincoln Park, Mich, 63- Chmn. ed. cmt, Nat. Fed. Financial Analyst Socs. 57-60, mem. prfnl. ethics cmt, 60; mem. adv. bd, Inst. Chartered Financial Analysts, 61-62. U.S.N, 42-45, Lt. Finance Asn.(v.pres, 67-68). Economic fluctuations, especially valuation of securities and other assets; portfolio management of individuals and institutions; effects of monetary policy on loan policies of banks. Publ: Banking lending policies: issues and practices, Bur. Bus. Res, Univ. Michigan, 64; Investments: analysis and management, Macmillian Co, 2nd ed, 66. Address: School of Business, University of Michigan, Ann Arbor, Mich. 48104.

HAYES, FREDERICK O'R(EILLY), b. Utica, N.Y, Oct. 4, 23; m. 48; c. 3. ECONOMICS, POLITICAL SCIENCE. A.B, Hamilton Col, 47; fel, Harvard, 47-50, M.P.A, 48, M.A, 49. Res. assoc. finance studies, N.Y. State Cmn. Sch. Bldgs, 50-51; fiscal economist, defense prod. activities, housing & community develop. progs, bur. budget, Exec. Off. President, 51-55, prin. budget examiner, 55-61; asst. cmnr. prog. planning, urban renewal admin, Housing & Home Finance Agency, 61-62, urban planning & community develop, 62-64; dep. dir. community action prog, Off. Econ. Opportunity, Exec. Off. President, 64-66; DIR. BUDGET, CITY OF NEW YORK, 66- Mem. President's Task Force for the War on Poverty, 64. Econ. Asn. Public finance; housing economics. Address: 4710 Livingston Ave, Bronx, N.Y. 10471.

HAYES, DEAN JAMES L(OUIS), b. Binghamton, N.Y, Sept. 25, 14; m. 41; c. 2. ECONOMICS. A.B, St. Bernard's Col, 36; A.M, St. Bonaventure, 38; Columbia, 38. Prof. econ. & head dept. bus. admin, St. Bonaventure, 40-59; DEAN SCH. BUS. ADMIN, DUQUESNE, 59- Lectr, Am. Inst. Banking, 38-; Stonier Grad. Sch. Banking, Rutgers, 61-; Va-Md. Bankers Asn, Univ. Virginia, 63-; dir, White Cross Stores, Inc; St. Josephs Col.(Md); Berkeley & Co. Outstanding civilian award, U.S. Dept. Army, 60. Fel. Mgt. Asn. Economic theory; management development; training. Address: School of Business Administration, Duquesne University, Pittsburgh, Pa. 15219.

HAYES, REAR ADM. JOHN D(ANIEL), U.S.N.(RET), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HAYES, DR. JOHN R(ICHARD), b. Toronto, Ont, Oct. 14, 29; U.S. citizen; m. 51; c. 3. PSYCHOLOGY. A.B, Harvard, 51; Ph.D.(psychol), Mass. Inst. Tech, 56. Mem. tech. staff, Bell Tel. Labs, 56-57; U.S. Naval Res. Lab, 57-60; decision sci. lab, U.S. Air Force, 60-64; fel, center cognitive studies, Harvard, 64-65; ASSOC. PROF. PSYCHOL, CARNEGIE-MELLON UNIV, 65- Psychol. Asn. Cognitive processes; problem solving; child development. Publ: Memory, goals, and problem solving, In: Problem solving, Wiley, 66; Problem topology and the solution process, J. Verbal Learning & Verbal Behav, 65. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

HAYES, DR. KEITH J(AMES), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

HAYES, DR. SAMUEL P(ERKINS), b. South Hadley, Mass, Jan. 28, 10; m. 37; c. 2. ECONOMICS. A.B, Amherst Col, 31, hon. L.H.D, 66; Moore fel, Yale, 31-32, Ph.D, 34. Asst. psychol, Yale, 31-34; instr, Mt. Holyoke Col, 34-37; Soc. Sci. Res. Coun. fel, Chicago, 37-38; mem. faculty soc. sci, Sarah Lawrence Col, 38-40; mem. sr. staff, div. market res, Young & Rubicam, Inc, 40-42; assoc. chief serv. trades br, Off. Price Admin, 42-43; chief div. requirements & distribution, N.African Econ. Bd, Allied Force Hq, Algiers, 43-44; head requirements officer, mission econ. affairs, U.S. Embassy, London, 44-45; spec. rep, For. Econ. Admin, Am. Embassy, Oslo & Copenhagen, 45; assoc. dir. mkt. & res. serv, Dun & Bradstreet, Inc, 45-48; spec. asst. to asst. secy. econ. affairs, U.S. Dept. State, 48-50; dep. chief, U.S. Econ. Surv, Mission, Southeast Asia, 50; dir. prog. planning & adv. staff, Tech. Coop. Admin, 50-51; chief, U.S. Spec. Econ. & Tech. Mission, Indonesia, 51-52; asst. dir. in charge Far East Progs, Mutual Security Agency, 52-53; dir, Found. Res. Human Behav, 53-60; prof. econ, Michigan, 59-62, dir. center res. econ. develop, 61-62; PRES, FOR. POLICY ASN, 62- Consult, UNESCO, 54-59; Agency Int. Develop, 61; Peace Corps, 61-62. Trustee, Found. Res. Human Behav, 53-67. Mem, President's Task Force on For. Econ. Assistance, 61; Cmt. Ed. Interchange Policy, 61-65; Coun. For. Rels. Fel. AAAS; Statist. Asn; Econ. Asn; Soc. Inst. Develop. Economic development of underdeveloped areas; psychology of business behavior; attitude and opinion measurement; evaluating foreign aid; public opinion and foreign policy. Publ: Co-ed, Some applications of behavioral research, 57 & auth, Evaluating development projects, 59, rev. 66, UNESCO; Some psychological problems of economics, Psychol. Bull. Address: 468 Riverside Dr, New York, N.Y. 10027.

HAYES, PROF. WAYLAND J(ACKSON), b. Morgantown, W.Va, Nov. 30, 93. SOCIOLOGY. B.S, Virginia, 19, M.S, 21; Ph.D, Columbia, 30. Prin, high sch, Va, 20-25; asst. ed. sociol, teachers col, Columbia, 26-28; teacher ed, Training Sch. for Teachers, Jamaica, N.Y, 27-28; asst. prof. SOCIOL, VANDERBILT, 28-38, assoc. prof, 38-41, prof, 41-65, EMER. PROF, 65- Sociol. Asn. Community organization; social control; public opinion. Publ: Factors influencing participation in voluntary group activities; Small community looks ahead; Human relations in nursing. Address: 223 Lauderdale Rd, Nashville, Tenn. 37205.

HAYES, PROF. WILLIAM A(LOYSIUS), b. Chicago, Ill, June 25, 20; m. 53; c. 9. ECONOMICS. A.B, De Paul, 42, M.A, Catholic Univ, 48, Ph.D.(econ), 52. Instr. ECON, DE PAUL, 50-53, asst. prof, 53-57, assoc. prof. 57-60, PROF, 60-, chmn. dept, 59-67. U.S.M.C, 44-46. Econ. Asn. Economic theory; income and growth analysis; philosophy of economics. Publ: Role of government in a pluralistic economy, Rev. Soc. Econ; Schumpeter and Catholic thought, Soc. Order; Right perspective on the national debt, Work. Address: 10600 S. Leavitt St, Chicago, Ill. 60643.

HAYES, DR. WILLIAM N(EIL), b. Newark, N.J, Mar. 7, 35; m. 57; c. 2. EXPERIMENTAL & PHYSIOLOGICAL PSYCHOLOGY. A.B, North Carolina, 56; Swarthmore Col, 56-58; hon. fel, Princeton, 60, Ph.D, 61. Instr. psychol, Kenyon Col, 60-61; res. fel. physiol. psychol, center brain res, Rochester, 61-63; ASST. PROF. PSYCHOL, STATE UNIV. N.Y. BUFFALO, 63- U.S. Pub. Health Serv. res. grant, 63- AAAS; Animal Behavior Soc; Psychonomic Soc. Physiological psychology; sensory physiology. Publ: Co-auth, Failure to find spontaneous alternation in chicks, 63 & Cortical and tectal function in visually guided behavior of turtles, 67, J. Comp. & Physiol. Psychol, 67; co-auth, Visual alarm reactions in turtles, Animal Behav, 67. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HAYGOOD, DR. ROBERT C(OLLINS), b. Jacksonville, Fla, Oct. 17, 26; m. 63; c. 2. PSYCHOLOGY. B.S, Illinois, 49; U.S. Pub. Health Serv. fel, Utah, 58-59, M.S, 59, Ph.D.(psychol), 63. Head accounts receivable, Merced Br, Farmers Ins. Group, 51-53; res. engr, Autonetics Div, N.Am. Aviation, Inc, 59-64; asst. prof. PSYCHOL, KANSAS STATE, 64-67, ASSOC. PROF, 67- Consult, Vet. Admin. Hosp, Kansas City, Mo, 65- U.S.A.F, 53-57, S/Sgt. Psychol. Asn; Psychonomic Soc. Concept formation; human learning; human factors; skilled visual performance; statistics and experimental design. Address: Dept. of Psychology, Kansas State University, Manhattan, Kans. 66502.

HAYHURST, PROF. DONALD E(DWARD), b. Fairmont, W.Va, Apr. 1, 24; m. 47; c. 2. GOVERNMENT. A.B, Pittsburgh, 50, M.Litt, 53, Found. Econ. Ed. fel, 55, Ph.D, 56. Lectr. POLIT. SCI, Pittsburgh, 53-54, instr, 54-56; asst. prof, West Virginia, 56-59, assoc. prof, 59-65; PROF. & CHMN. DEPT, SLIPPERY ROCK STATE COL, 65- Res. grants, Amelia Earhart, 61 & W.Va. Center Appalachian Studies & Develop, 67. Admin. asst. to the Governor, 60-61. Mem. adv. coun, State Dept. Employ. Security, 61. U.S.A, 43-47, 50-52, 1st Lt. Administration. Publ: Employment security in W.Va, 66 & Problems of administration in W.Va, 67, W.Va. Bur. Govt. Res; Protection of consumers in West Virginia. Address: Dept. of Political Science, Slippery Rock State College, Slippery Rock, Pa. 16057.

HAYMES, DR. HARMON H(AYDEN), b. Lynchburg, Va, June 8, 27; m. 52; c. 2. ECONOMICS. B.A, Lynchburg Col, 54; Du Pont fel. & M.A, Virginia, 56, Mason & Davidge fels. & Ph.D, 59. With Mead Corp, Va. & Ohio, 46-50; instr. econ, Virginia, 55-56, 58-59; asst. prof, Lynchburg Col, 56-57; Smith Col, 59-61; Washington & Lee, 61-64; economist, FED. RESERVE BANK RICHMOND, 64-66, ASST. V.PRES, 66- Summers, instr, Virginia, 57-58, asst. prof, 61, Massachusetts, 60. U.S.A, 50-52. Econ. Asn; Finance Asn. Monetary theory and policy; business cycle analysis; macroeconomic theory. Publ: Theoretical analysis of variations in the impact of general monetary restraint; co-auth, Psychological price control, Bus. Horizons, 62 and Banking in Virginia: the 1962 legislation, Washington & Lee Law Rev, 64. Address: Federal Reserve Bank of Richmond, Ninth & Franklin St, Richmond, Va. 23213.

HAYN, PROF. LLOYD F(RANKLIN), b. Chicago, Ill, Sept. 3, 12; m. 40; c. 3. ECONOMICS. B.A, Wesleyan, 34; M.A, Boston, 39; Ph.D.(econ), Massachusetts, 60. Assoc. prof. econ, N.H. State Teachers Col.(Keene), 41-59, dean, 59-61; Olivet Col, 61-64; PROF. ECON, KEENE STATE COL, 64- Lectr, Massachusetts, 55-56. Econ. Asn. State and local taxes; economic

history; industrial relations. Address: Dept. of Economics, Keene State College, Keene, N.H. 03431.

HAYN, DR. ROLF, b. Berlin, Germany, July 6, 23; nat; m. 50; c. 1. ECONOMICS. B.A, Indiana, 43; Ph.D.(econ), Wisconsin, 54. Acting asst. prof. econ, Washington State, 52-53; lectr, New Mexico, 53-54; asst. prof, Arizona, 54-55; Oklahoma, 55-61; economist, UN, 61-66; SR. ECONOMIST, PANAM. UNION, WASH, D.C, 66- Econ. Asn; Soc. Int. Develop; Royal Econ. Asn. International economics; monetary and banking theory; economic growth. Publ: Cyclical exchange rate policy and real income and Peruvian monetary and foreign exchange policy, Inter-Am. Econ. Affairs; Capital formation and Argentina's price-cost structure, Rev. Econ. & Statist. Address: 6041 Chatsworth Lane, Bethesda, Md. 20014.

HAYNER, PROF. NORMAN S(YLVESTER), b. Peking, China, May 15, 96; U.S. citizen; m. 20; c. 2. SOCIOLOGY. A.B, Washington (Seattle), 20; A.M, Chicago, 21, Ph.D, 23. Prof. sociol. & soc. serv, Rockford Col, 22-25; SOCIOL, WASHINGTON (SEATTLE), 25-66, EMER. PROF, 66- Nat. Inst. Ment. Health res. grant, 66- Mem, State Bd. Prison Terms & Paroles, Wash, 51-55, chmn, 55-56. U.S.A, 17-18. Sociol. Asn; Soc. Study Social Probs. Prisons and parole; social change in Mexico; the family. Publ: New patterns in old Mexico, Col. & Univ, 66; Correctional systems and national values, Brit. J. Criminol, 10/62; Hotel life: physical proximity and social distance, In: Contributions to urban sociology, 64. Address: Dept. of Sociology, University of Washington, Seattle, Wash. 98105.

HAYNES, DR. JACK READ, b. Daingerfield, Tex, June 14, 32; m. 60. c. 2. PSYCHOLOGY. B.A, North Texas State, 57, M.A, 58; Ph.D.(psychol), Texas Christian, 64. Instr. PSYCHOL, NORTH TEXAS STATE, 63-64, ASST. PROF, 64. Hosp.C, U.S.N, 51-53, Res, 53-, Lt. AAAS; Psychol. Asn. Application of multivariate statistical principles to behavioral research and the area of verbal learning. Publ: Co-auth, Assessment of organic brain damage by psychological tests, Psychol. Bull, 63. Address: Dept. of Education & Psychology, North Texas State University, Denton, Tex. 76203.

HAYNES, DR. JERRY OSCAR, b. Headland, Ala, Jan. 24, 28; m. 61; c. 2. PSYCHOLOGY. B.S, Auburn, 51, M.S, 55; Ph.D.(psychol), Fla. State, 63. Asst. prof. psychol, Jacksonville State Univ, 58-59; sch. psychologist, Gadsden County, Fla, 62-63; asst. prof. PSYCHOL, Auburn, 63-64; ASSOC. PROF, TROY STATE COL, 64- U.S.A.F, 46-48. AAAS; Psychol. Asn. Educational psychology; psychophysiology. Publ: Co-auth, In-service education of teachers in relation to classroom adjustment of the underchosen child, Fla. J. Ed. Res, 62. Address: Dept. of Education & Psychology, Troy State College, Troy, Ala. 36081.

HAYNES, JOHN D(AVID), Statist, see 11th ed, Phys. & Biol. Vols.

HAYNES, DR. LAWRENCE W(ILBER), b. Kokomo, Ind, June 3, 14; m. 46; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Purdue, 36; Ph.D, Wisconsin, 57. Rural serv. rep. rural elec, Ind. Gen. Serv. Co, 36-38; rural rehab. supvr, farm security admin, U.S. Dept. Agr, 38-40; AGR. STATISTICIAN farm valuations, agr. div, bur. census, U.S. Dept. Commerce, 46-47; DAIRY PRICES & CROPS, STATIST. REPORTING SERV. & AGR. MKT. SERV, U.S. DEPT. AGR, 46-47, 51- Instr. univ. col, Maryland, 67- U.S.A, 42-46, 1st Lt. Agr. Econ. Asn; Econ. Asn. Statistical methodology as applied to economic analysis, especially fields closely allied with agriculture; agricultural policy; role of institutions in social and economic development. Publ: Fluid milk and cream consumption in selected marketing areas, 50-59. Address: 5802 Melvern Dr, Bethesda, Md. 20034.

HAYNES, PROF. W(ILLIAM) WARREN, b. Berkeley, Calif, Mar. 10, 21; m. 50; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. A.B, California, 42; M.B.A, Harvard, 47, D.C.S, 52. Instr, Ohio, 47-48; asst. prof. econ, Kentucky, 48-52, assoc. prof, 52-57, prof, 57-63; proj. dir, Indian Inst. Mgt, BUS. SCH, HARVARD, 63-65, VIS. PROF. BUS. ADMIN, UNIV, 65-, CHMN. DEPT. INT. TEACHERS' PROG, 67-, dir, div. int. activities, 66-67. Ford Found. fel, 56-57. Consult, Tenn. Valley Authority, 54-56; consult, 60- U.S.A, 43-46. Econ. Asn. Managerial economics; business environment; corporate and national planning; management education; institution building. Publ: Nationalization in practice: the British coal industry; collab, Management: concepts, analysis and cases; auth, Managerial economics: cases and concepts, Dorsey, 63. Address: Dept. of Business Administration, Harvard Business School, Boston, Mass. 02163.

HAYNES, WILLIAMS, b. Detroit, Mich, July 29, 86; m. 26; c. 3. ECONOMICS. Hopkins, 09-12. Ed. dir, D.O. Haynes & Co, N.Y, 14-19; pres. & publisher, Chem. Indust, Drug & Cosmetic Indust. and Plastic Prods, 20-40; CONSULT, 40- Bracket lectr, Princeton, 32. Ed, Am. Indust. Series, 52- Mem. cmn. publications, U.S. Dept. Commerce, 20-25, cmn. chem. standards, 23-25; adv. cmn, chem. expos, 24-40; Williamstown Conf. Raw Mat, 26; chmn. joint cmt uniform chem. sales contract, 31. Pugsley medal, Am. Scenic & Hist. Preservation Soc, 50. Chem. Soc.(Dexter award, 57); Econ. Asn; Econ. Hist. Asn; fel. Royal Econ. Soc; Brit. Chem. Soc. Chemical market studies; history of chemical technology and industry. Publ: Chemical economics; This chemical age; American chemical industry. Address: 75 Main St, Stonington, Conn. 06378.

HAYS, DR. DAVID G(LENN), b. Memphis, Tenn, Nov. 17, 28; m. 50; c. 3. SOCIOLOGY. B.A, Harvard, 51, M.A, 53, fel, 53-54, Ph.D.(sociol), 56; fel, Center Adv. Study Behav. Sci, 54-55. Soc. scientist, Rand Corp, 55-68; PROF. LING, INFO. SCI. & LIBRARY STUDIES & COMPUT. SCI. & CHMN. LING. PROG, STATE UNIV. N.Y. BUFFALO, 68- Lectr, Southern California, 56-58; California, Los Angeles, 60, 66; Calif. State Col. Los Angeles, 66-67. Vis. scientist, common res. center, European Atomic Energy Community, Ispra, Italy, 62-63. Chmn, Int. Cmt. Computational Ling, 65-; mem, Math. Soc. Sci. Bd, 67-71. Sociol. Asn; Psychol. Asn; Inst. Math. Statist; Asn. Mach. Transl. & Comput. Ling.(pres, 64); French Asn. Mech. Lang. Processing. Computational linguistics. Publ: Ed, Readings in automatic language processing, 66 & auth, Introduction to computational linguistics, 67, Am. Elsevier. Address: Linguistics Program, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HAYS, PROF. FRANK D(RURY), b. Niagara Falls, N.Y, June 23, 12; m. 38; c. 3. ECONOMICS. Ph.B, Niagara, 35, A.M, 36; Syracuse, 39. Teacher, pub. schs, N.Y, 37-42; commandant cadets, De Veaux Sch, 41-45; chem. analyst, Union Carbide Co, 45-46; instr. gen. studies, TECH. EXTEN, PURDUE, 46-50, asst. prof, 50-61, ASSOC. PROF. GEN. STUDIES, DEAN'S DEP. SCH. INDUST. MGT. & ACAD. COUNSELOR, 61- Instr, Am. Col. Life Underwriters, 61-62. Indust. consult, Buda Div, Allis Chalmers Co, Ill, 53-55; Inland Steel Co, 54-55. Soc. Eng. Ed. Development of more effective teaching in the social sciences, especially economics for the technical institute level. Address: Calumet Campus, Technical Extension, Purdue University, 2233 171st St, Hammond, Ind. 46323.

HAYS, PROF. H(ERBERT) D(ONALD), Geol, Geog, see 11th ed, Phys. & Biol. Vols.

HAYS, DR. MAHELA W, b. Iowa, May 5, 97; wid. PSYCHOLOGY. A.B, California, 27, Ph.D, 43. CONSULT. PSYCHOLOGIST, 53-; DIR. COUNSELING SERV, VALPARAISO, 55- Personnel officer psychol, U.S. Dept. War, 43-46; U.S. Dept. Navy, 50-52; sr. res. officer, Naval Elec. Lab, Calif, 53-54; consult. psychologist, State Civilian Rehab. Center, 53-54; Griffin Reading Improv. Center, 55. Psychol. Asn; Geront. Soc; Int. Coun. Psychol. Role of religion in psychotherapy; family relationships. Publ: Counseling program in the Navy Department. Address: 552 Garfield, Apt. 3, Valparaiso, Ind. 46383.

HAYS, PROF. SAMUEL P(FRIMMER), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HAYS, PROF. WILLIAM L(EE), b. Clarksville, Tex, Jan. 20, 26; m. 50; c. 2. PSYCHOLOGY. B.S, N.Tex. State Col, 48, M.S, 49; Ph.D.(psychol), Michigan, 55. Psychologist, State Dept. Pub. Welfare, Ill, 49-51; instr. PSYCHOL, MICHIGAN, 54-57, asst. prof, 57-60, assoc. prof, 60-62, PROF, 62-, ASSOC. DEAN COL. LIT, SCI. & ARTS, 64- Fel, center adv. study behav. sci, Stanford, 61-62. Summers, mem. inst. math, Soc. Sci. Res. Coun, Dartmouth Col, 53, seminar preception, Harvard, 55, U.S. Air Force res. seminar, New Mexico, 57, vis. prof, Harvard, 64. Psychol. Asn; Statist. Asn; Psychonomic Soc. Measurement and mathematics in psychology, especially statistics and experimental design; perception and cognition, especially in social contexts; psychological scaling. Publ: Statistics for psychologists, Holt, 63; Basic statistics, and Quantification in psychology, Brooks-Cole, 67. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

HAYTHORN, DR. WILLIAM W(ESLEY), b. McMechen, W.Va, July 24, 25; m. 45; c. 4. PSYCHOLOGY. A.B, 48; Ph.D.(psychol), 52. Soc. psychologist, crew res. lab, Randolph Air Force Base, Tex, 52-55; SOC. SCIENTIST, Rand Corp, 55-62; NAT. NAVAL MED. CENTER, 62- Instr, American Univ, 67- Consult, Rand Corp, 62-; Ariz. State, 66-; Systs. Develop. Corp, 66-68. U.S.N, 42-45. Psychol. Asn. Leadership: interpersonal interactions; organizational effectiveness; isolation and confinement. Publ: a A review of research on group assembly; Behavior of authoritarian and equalitarian personalities in groups; co-auth, Ecology of isolated groups, Behav. Sci, 67. Address: Medical Center, National Naval Research Institute, Bethesda, Md. 20014.

HAYTHORNE, DR. GEORGE V(ICKERS), b. Edmonton, Alta, Sept. 29, 09; m. 38; c. 2. ECONOMICS. B.A, Alberta, 30, M.A, 32; Soc. Sci. Res. Coun. fel, McGill, 33-37; Ferguson fel, Harvard, 47, Guggenheim fel, 48, Ph.D. (econ), 49. Chief investr, nat. selective serv, CAN. DEPT. LABOR, 42, assoc. dir, 43-46, dir. agr, forestry & fisheries br, 46-47, econ. & res. br, 48-53, asst. dep. minister, 53-61, DEP. MINISTER, 61- Mem, Can. Inst. Int. Affairs. Econ. Asn; Can. Polit. Sci. Asn; Can. Agr. Econ. Soc.(pres, 54-55). Manpower; labor relations, standards and benefits; wages; incomes: productivity; international labor affairs. Publ: Land and labour; Maritimes: Labor in Canadian agriculture. Address: 2190 Alta Vista Dr, Ottawa, 8. Ont, Can.

HAYWARD, DR. SUMNER C(HAMBERLAIN), b. Omaha, Nebr, June 14, 16; m. 44; c. 4. PSYCHOLOGY. A.B, Oberlin Col, 38; fel, Brown, 47-51, M.A, 49, Ph.D.(psychol), 52. Assoc. prof. psychol. Carleton Col. 51-58; asst. to pres, Chatham Col, 58-60; prof, Berea Col, 60-61; prof. & chmn. dept. Beloit Col, 61-65; dean, Macalester Col, 65-67; PRES, ASSOC. COLS. MIDWEST, 68- Res. grants, Am. Philos. Soc. Phila, 54, Nat. Acad. Sci.-Nat. Res. Coun, 55, Nat. Sci. Found, 56, 58, 61-65. U.S.A, 41-45. Psychol. Asn. Human and animal learning; innovation in higher education. Publ: New approaches to collegiate liberal arts, 58, Recipe for revolution, 63 and Traditional and newly emerging approaches to year-round operation, 66, Liberal Ed. Address: Associated Colleges of the Midwest, Newberry Library, 60 E. Walton Place, Chicago, Ill. 60610.

HAYWOOD, DEAN CHARLES F(OSTER), b. Ludlow, Ky, Apr. 7, 27; m. 48. ECONOMICS. A.B, Berea Col, 49; A.M, Duke, 50; Earhart Found. fel, California, 52-53, Ph.D.(econ), 55. Asst. to dir. res, Am. Bankers Asn, New York, 54-55; asst. prof. econ, Tulane, 55-56; financial economist, Bank of Am, 57-58; prof. econ. & banking, Mississippi, 58-60, provost, 60-63; dir. econ. res, Bank of Am, 63-65; PROF. ECON. & DEAN COL. BUS. & ECON, KENTUCKY, 65- Course coordinator, Stonier Grad. Sch. Banking, 66-; chmn, Carter H. Golembe Assocs, Inc, D.C, 67- Consult, res. coun. & adv. mem. banking & financial res. cmt, Am. Bankers Asn, New York, 55- U.S. Merchant Marine, 45-46; U.S.A, 46-48. Econ. Asn; Statist. Asn; Finance Asn. National financial theory and policy. Publ: The pledging of bank assetts, Asn. Reserve City Bankers, Chicago, 67; International currency problems, Bus. Econ, winter 65-66; Labor mobility and poverty, U.S. Chamber Commerce, 67. Address: University of Kentucky College of Business & Economics, Lexington, Ky. 40506.

HAYWOOD, DR. H(ERBERT) CARL(TON), b. Taylor Co, Ga, July 2, 31; m. 51; c. 4. PSYCHOLOGY. A.B, San Diego State Col, 56, M.A, 57; Ph.D.(psychol), Illinois, 61. Clin. psychologist, East. Ill. Ment. Health Unit, 59-61; staff psychologist, Vet. Admin. Hosp, Danville, Ill, 61-62; asst. prof. psychol, George Peabody Col, 62-65; vis. prof. ment. retardation, Toronto, 65-66; KENNEDY

ASSOC. PROF. PSYCHOL, GEORGE PEABODY COL, 66- Consult. Ment. retardation, State of Tenn, 64-; U.S. Vet. Admin, 65-; mem. sci. rev. cmt, health res. facilities br, Nat. Insts. Health, 67- U.S.N, 50-54. AAAS; Psychol. Asn; Asn. Ment. Deficiency; Psychonomic Soc. Psychopathology; child development; mental retardation; personality and motivational factors in learning, performance and retention; early experience and intellectual development. Publ: Ed, Brain damage in school-age children, Coun. Except. Children, 67; auth, Psychometric intelligence, Appleton, 68; Experiential factors in intellectual development, In: Psychopathology of mental development, Grune, 67. Address: Dept. of Psychology, George Peabody College, Nashville, Tenn. 37203.

HAZARD, PROF. J(OHN) L(EWIS), b. Sioux City, Iowa, June 10, 23; m. 49; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. M.B.A, Harvard, 47; Ph.D.(bus. & econ), Texas, 53. Asst. prof. commerce, Kent. State, 47-49; transportation, Texas, 50-55, assoc. prof. int. trade & transportation, 55-57; PROF. MKT. & TRANSPORTATION ADMIN, MICH. STATE, 57- U.S.N, 43-46, Lt.(jg). Econ. Asn; Transportation Res. Forum. Transportation, especially ocean shipping; international trade and economics; economic history. Publ: Transshipment Hawaii, Univ. Hawaii, 63; Michigan's commerce and commercial policy study, Mich. State Univ, 65; Crisis in coastal shipping. Address: Dept. of Marketing and Transportation Administration, Michigan State University, East Lansing, Mich. 48823.

HAZARD, PROF. JOHN N(EWBOLD), b. Syracuse, N.Y, Jan. 5, 09; m. 41; c. 4. COMPARATIVE GOVERNMENT, LAW. B.A, Yale, 30; LL.B, Harvard, 34; cert, Moscow Juridical Inst, 37; J.S.D, Chicago, 39. Dep. dir, U.S.S.R. Div, U.S. For. Econ. Admin, 41-46; PROF. PUB. LAW, COLUMBIA, 46- Fel, Inst. Current World Affairs, 34-39; Fulbright prof, Cambridge & London Sch. Econ, 52-53; fel, Center Adv. Study Behav. Sci, 61-62; prof, Teheran, 66; sr. specialist, east-west center, Hawaii, 67. Lawyer, Baldwin, Todd & Young, N.Y, 39-41. President's cert. of merit, 48. AAAS; Soc. Int. Law; Polit. Sci. Asn; Asn. Adv. Slavic Studies.(managing ed, Am. Slavic & E. European Rev, 51-60); titular mem, Int. Acad. Comp. Law; Int. Asn. Legal Sci.(v.pres, 66-69). Soviet government and law; reception of the soviet legal system in communist societies; African socialist law. Publ: Law and social change in the U.S.S.R, Stevens, 53; co-auth, Soviet legal system, Oceana, 62; auth, Soviet system of government, Univ. Chicago, 68. Address: Dept. of Public Law, Columbia University, 435 W. 116th St, New York, N.Y. 10027.

HAZARD, DR. WILLIAM RICHARD, b. Berwyn, Ill, Feb. 1, 23; m. 48; c. 4. SOCIOLOGY. B.S, Wisconsin, 50, M.S, 51; Ph.D.(sociol), Iowa, 64. Newsman, United Press Asn, 47-48; asst. news dir, WIBA, Wis, 48-50; reporter, Milwaukee J, 50-54; chmn. dept. journalism, Wisconsin, Milwaukee, 54-55; instr, Iowa, 55-61; asst. dir. surv. res, Frank N. Magid Assocs, 61-62; assoc. prof. journalism & sociol, Texas, 62-65; DIR. SOCIOMETRIC RES, TRACOR, INC, 65- Res. grants, U.S. Dept. State, 50-51; Cent. Broadcasting Corp, Iowa, 59-60; U.S. Agency Int. Develop, Guatemala, 64; Columbia Broadcasting Syst, 64-65; Hogg Found. Ment. Health, 64-65; Off. Econ. Opportunity, 66-; NASA, 67-; lectr, Texas, 67- Consult, off. pres, Univ. Iowa, 61-62; Fentress Newspapers, Inc, 65-; Nat. Acad. Sci-Nat. Res. Coun. U.S.A, 42-45. Asn. Pub. Opinion Res; Sociol. Asn. Community sociology; public opinion crystallization and change; social systems; methodology; sociometry; communication sociology. Publ: Some personal and social influences on telecast viewing, Pub. Opinion Quart, fall 62; A nontopical system of TV program categories, Audio-Visual Commun. Rev, summer 64; Anxiety and preference for television fantasy, Journalism Quart, autumn 67. Address: Tracor, Inc, 6500 Tracor Lane, Austin, Tex. 78721.

HAZEL, PROF. DAVID W(ILLIAM), b. Boston, Mass, May 15, 20; m. 46; c. 4. POLITICAL SCIENCE. A.B, Tufts, 43; M.Ed, Boston, 46; Gen. Ed. Bd. fel, Michigan, 47-49, South. Found. fel, 55-56, Ph.D.(polit. sci, pub. finance), 57. Instr. sociol, Tuskegee Inst, 46-49, asst. prof. econ. & polit. sci, 49-52; soc. sci, Prairie View Agr. & Mech. Col, 53-57; assoc. prof. POLIT. SCI, Southern Univ, 57-58; PROF, CENT. STATE COL.(OHIO), 58-, CHMN. DEPT, 67- Summers, prof, Ala. Agr. & Mech. Col, 60, consult, U.S. Air Force, 67. U.S.A.A.F, 42-43. Polit. Sci. Asn. Political parties; legislative process. Publ: Suffrage in the south, Hist. Bull; co-auth Teacher shortage, Bull. Sec. Sch. Prin. and Integration in the junior college, Bull. Negro Ed. Address: Dept. of Political Science, Central State College, Wilberforce, Ohio 45384.

HAZEL, DR. JOE T(HOMAS), b. Dawson, Ga, Nov. 9, 24; m. 52; c. 6. PSYCHOLOGY. A.B, Mercer, 48, M.E.D, 61; Georgia, 51-51; Ohio State, 58-60; Ph.D.(psychol), Florida, 62. Personnel psychologist, U.S. Armed Forces Sta, Miami, Fla, 52-53; res. psychologist, Sch. Aviation Med, Randolph AFB, Tex, 53-56; personnel officer, U.S. Air Force, Korea, 56-57; ed. counsr, U.S. Air Force Inst. Tech, Wright-Patterson AFB, Ohio, 57-60; res. psychologist, U.S. Air Force Personnel Res. Lab, 62-67; PERSONNEL SYSTS. MGR, MINUTEMAN SYST. PROJ. OFF, NORTON AFB, CALIF, 67- Lectr, St. Mary's (Tex), 62-67; Calif. State Col. San Bernardino, 67- U.S.A.F, 52-, Maj. Psychol. Asn. Drugs and fatigue; visual perception; psychophysical methodology; job analysis and evaluation. Publ: Agreement between worker-supervisor description of the worker's job, J. Indust. Psychol, 2: 71-79; Sorting procedure effects on ranking error, Proc. Annual Convention Am. Psychol. Asn, 65; Job descriptions, sample selection, and criterion board, U.S. Air Force Personnel Res. Lab, Tech. Report, 11/65. Address: 1620 N. Clifford, Rialto, Calif. 92376.

HAZELL, JOSEPH WILLIAM, b. Washington, D.C, Oct. 1, 24; m. 51; c. 3. EDUCATIONAL PSYCHOLOGY, PUBLIC HEALTH EDUCATION. B.S, Harvard, 49; M.A, George Washington, 51. Opers. analyst & consult, opers. res. off, Hopkins, 52-58; human factors analyst & proj. scientist, Booz, Allen Appl. Res, Inc, 58-61; sr. opers. analyst & head behav. anal. group, Stanford Res. Inst-U.S. Army Combat Develop. Command Experimentation Command, Ft. Ord, 61-66; U.S. PUB. HEALTH SERV. SPEC. RES. FEL, CALIFORNIA, BERKELEY, 67- Ed. Res. Asn; Psychol. Asn; Pub. Health Asn; Opers. Res. Soc. Educational research; public health education; operations research; programmed learning; higher education. Address: Route 1, Box 196, Carmel, Calif. 93921.

HAZLEHURST, DR. J(ACK) H(ARRIS), b. Dallas, Tex, Jan. 5, 04; m. 35; c. 2. PSYCHOLOGY. B.S, Illinois, 26; M.B.A, Northwestern, 32, Ph.D.(indust. psychol), 41. From engr. to v.pres, Pub. Utilities Serv, CHICAGO, 28-48; V.PRES, STEVENS THUROW & ASSOCS, INC, CHICAGO, 54- Staff dir, personnel res. inst, Northwestern, 35-39, spec. lectr, 36-39. Training consult, Off. Chief Ord, U.S. Dept. Army, 42-46. Fel. Psychol. Asn. Aptitude testing; industrial training; marketing research. Address: 531 Melrose Ave, Kenilworth, Ill. 60043.

HAZLITT, DR. HENRY, b. Philadelphia, Pa, Nov. 28, 94; m. 36. ECONOMICS, STATISTICS. City Col. New York, 12; hon. Litt.D, Grove City Col, 58; LL.D, Bethany Col.(W.Va), 61. Mem. staff, Wall Street Jour, 13-16; financial staff, N.Y. Eve. Post, 16-18; financial writer, Mech. & Metals Nat. Bank, N.Y, 19-20; financial ed, N.Y. Eve. Mail, 21-23; ed. writer, N.Y. Herald, 23-24; The Sun, 24-25, lit. ed, 25-29; The Nation, 30-33; ed, Am. Mercury, 33-34; mem. ed. staff, N.Y. Times, 34-46; ASSOC. & WRITER COLUMN BUS. TIDES, NEWSWEEK MAG, 46- Co-founder & co-ed, The Freeman, 50, ed-in-chief, 53. U.S.A.A.F, 17-18. Econ. Asn; Statist. Asn; Acad. Polit. & Soc. Sci. Political science; ethics. Publ: Economics in one lesson; Failure of the new economics; The foundations of morality, Van Nostrand, 64. Address: 65 Drum Hill Road, Wilton, Conn. 06897.

HEADINGTON, DR. R(OBERT) C(LARK), b. Mt. Vernon, Ohio, Mar. 31, 12; m. 53; c. 1. ECONOMICS. A.B, Kenyon Col, 37; M.Sc, Ohio State, 38, Ph.D. (agr. econ), 47. Asst. rural econ, agr. exp. sta, Ohio State, 38-40, res. assoc. & bur. agr. econ. agent, 41-42; admin. asst. spec. weapons projs, Hopkins & New Mexico, 43-45; consult, Byers & Son, 46-47; asst. prof. commerce, Ariz. State Col, Flagstaff, 48-50, assoc. prof. & chmn. div. soc. scis, 50-52; assoc. prof. econ, Arizona State, 53-59, prof, 59-66; ECONOMIST, ARIZ. DEPT. PROPERTY VALUATION, 67- Dir. & secy, Univ. Invest. Co, Inc, 55-, treas, 61- Consult, U.S. Bur. Census & Farm Found, 48; econ. consult, Ariz. Div. Appraisal & Assessment Standards, 64-66. U.S.A.A.F, 43. Finance Asn. Land tenure; real estate finance and management. Publ: Agriculture and land use as affected by strip-mining coal; Ohio farm real estate situation; Mine valuation by the Hoskold formula, Valuation, winter 66. Address: 1749 W. Mt. View Dr, Mesa, Ariz. 85201.

HEADLEY, DR. ANNE RENOUF, b. New York, N.Y, Apr. 3, 37; m. 65. POLITICAL SCIENCE. A.B, Barnard Col, Columbia, 59; M.A, Yale, 62, Coun. Int. Rels. & Bushnell fels. & Ph.D.(polit. sci, int. rels), 66. ASST. PROF. POLIT. SCI, NORTH CAROLINA, CHAPEL HILL, 66- U.S. Dept. State sr. faculty fel, summer, 67; Carnegie Endowment Int. Peace vis. res. scholar, 68-69. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Int. Law; Soc. Pub. Admin. Evolution of national and supranational interests as systems of interests defined systems of treaties; relationship between growth principles and trends in international development; problems in international control. Address: Dept. of Political Science, Caldwell Hall, University of North Carolina, Chapel Hill, N.C. 27514.

HEADLEY, DR. JOSEPH C(HARLES), b. Lomax, Ill, June 23, 30; m. 64; c. 1. AGRICULTURAL ECONOMICS. B.S, Illinois, 52, M.S, 55; California, Berkeley, 58-59; Ph.D.(agr. econ), Purdue, 60. Asst. agr. economist, Arizona, 55-57; res. asst. agr. econ, Purdue, 57-59; assoc. specialist, California, Davis, 59-60; asst. prof. AGR. ECON, Illinois, 60-65, ASSOC. PROF, 65-66; MISSOURI, 66- U.S.A.F, 52-54, 1st Lt. Agr. Econ. Asn. Agricultural production economics and natural resource economics. Publ: Co-auth, the pesticide problem: an economic approach to public policy, Resources for Future, Inc, 67; auth, Environmental quality and chemical pesticides, J. Soil & Water Conserv. 66; Estimating the productivity of agricultural pesticides, J. Farm Econ, 68. Address: Dept. of Agricultural Economics, University of Missouri, Columbia, Mo. 65201.

HEADLEY, DEAN RUSSELL ALBERT, b. New Kensington, Pa, June 20, 01; m. 34; c. 3. ECONOMICS. A.B, Pennsylvania, 24, M.A, 36, Ph.D.(econ), 55. Teacher, Wesley Collegiate Inst, 24-25; high schs, Pa, 25-46; instr. econ, Pennsylvania, 46-49; asst. prof, BUCKNELL, 49-54, prof, 54-58, LINDBACK PROF. BUS. ADMIN, 58-, DEAN COL, 61- Address: College of Business Administration, Bucknell University, Lewisburg, Pa. 17837.

HEADRICK, DR. MARY W(ILLIAMS), b. Medford, Wis, Apr. 23, 35; m. 51; c. 5. EXPERIMENTAL PSYCHOLOGY. B.S, Chattanooga, 61; U.S. Pub. Health Serv. fel. & M.A, George Peabody Col, 62, U.S. Pub. Health Serv. fel. & Ph.D.(psychol), 66. Res. asst. psychol, Cent. Wis. Colony, Madison, 64-65, psychologist child develop, 65-66; U.S. PUB. HEALTH SERV. RES. FEL. psychopharmacol, sch. med, Vanderbilt, 66-68; PSYCHIAT, SCH. MED, DUKE, 68- Asn. Ment. Deficiency; Psychol. Asn; Soc. Psychophysiol. Res; Soc. Res. Child Develop. Operant shaping of severely retarded children; psychophysiological responses in children and normal adults; psychophysiological correlates of perception in schizophrenic adults; voluntary control of autonomic activity in humans. Publ: Operant conditioning in mental deficiency, 63 & co-auth, Classical eyelid conditioning of young mongoloid children, 67, Am. J. Ment. Deficiency; Short-term memory in normals and retardates, J. Exp. Child Psychol, 64. Address: Dept. of Psychiatry, Duke University Medical Center, Durham, N.C. 27706.

HEADRICK, THOMAS E, b. East Orange, N.J, June 28, 33; m. 57; c. 2. POLITICAL SCIENCE, LAW. A.B, Franklin & Marshall Col, 55; B.Litt, Oxford, 58; LL.B, Yale, 60. Law clerk, State Supreme Court, Wash, 60-61; attorney, Pillsbury, Madison & Sutro, 61-64; consult, Emerson Consult. Ltd, 64-66; ASST. DEAN, SCH. LAW, STANFORD, 67- Consult, Calif. Assembly, 66; western regional off, U.S. Off. Econ. Opportunity, 66. Local government organization and policy-making; economic policy-making. Publ: Town clerk in English local government, Allen & Unwin, 62; co-auth, Legal key to international trade and investment, Int. Trade, 62. Address: School of Law, Stanford University, Stanford, Calif. 94305.

HEADY, PROF. EARL O, b. Imperial, Nebr, Jan. 25, 16; m. 41; c. 3. AGRICULTURAL ECONOMICS. B.S, Nebraska, 39, M.S, 40, hon. D.Sc, 60; Chicago, 41; Ph.D, Iowa State, 44; hon. D.Sc, Upsalla, 65, Hungarian Acad. Sci, 67. Instr. AGR. ECON, IOWA STATE, 40-43, asst. prof, 44-45, assoc. prof, 45-48, prof, 48-56, C.F. CURTISS DISTINGUISHED PROF. & DIR. CENTER

ECON. ADJUST, 56- Am. Farm Econ. res. award, 49, 53, 56; faculty award, Soc. Sci. Res. Coun, 50-53; fel, Center Adv. Study Behav. Sci, 60-61. Tech. adv, Tenn. Valley Authority; U.S. Dept. Agr; Govt. India; Orgn. European Econ. Coop. & Develop. Consult, Govt. Greece, 63-64; Ford Found, 64-; Govt. Ethiopia, 65; U.S. Agency Int. Develop, 65-; Nat. Cmn. Food & Fiber, 66-67; U.S. State Dept, 66- Mem. White House Cmt. Domestic Affairs. Fel. AAAS; Econ. Asn; fel. Agr. Econ. Asn; fel. Economet. Soc; fel. Statist. Asn; Can. Agr. Econ. Soc; Int. Asn. Agr. Econ; Australian Agr. Econ. Soc. Resource efficiency in agriculture; fundamentals of conservation; efficiency in public social conservation programs. Publ: Economics of agricultural production and resource use, Prentice-Hall, 58; Linear programming methods, 59 & Agricultural policy under economic development, 64, Iowa State Univ. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50010.

HEADY, PRES. FERREL, b. Ferrelview, Mo, Feb. 14, 16; m. 42; c. 4. POLITICAL SCIENCE. A.B, Washington (St. Louis), 37. A.M, 38, Ph.D, 40; Brookings Inst, 40-41. Admin. asst. to dir. personnel, U.S. Dept. Agr, D.C, 41-42; vis. lectr. polit. sci, Univ. Kansas City, 46; from instr. to asst. prof, Michigan, 46-51, assoc. prof. polit. sci, 51-57, prof, 57-67, dir, inst. pub. admin, 60-67, asst. dir, 51-57, assoc. dir, 57-60; acad. v.pres, NEW MEXICO, 67-68, PRES, 68- Fel, Brookings Inst, 40-41. Admin. asst. to cmnr. Pollock, Cmn. Orgn. Exec. Br. Govt, 47-49; dir. & chief adv, inst. pub. admin, Philippines, 53-54. U.S.N.R, 42-46. Polit. Sci. Asn; Soc. Pub. Admin; Int. Polit. Sci. Asn; Int. Inst. Admin. Sci. Public and academic administration; American national and state government. Publ: Administrative procedure legislation in the states; Michigan department of administration; Public administration: a comparative perspective, Prentice-Hall, 66. Address: Administration Bldg, University of New Mexico, Albuquerque, N.Mex. 87106.

HEAL, DR. LAIRD WAYNE, b. Rhinelander, Wis, Apr. 7, 33; m. 54; c. 7. PSYCHOLOGY. A.B, Ripon Col, 55; M.S, Wisconsin, 63, Nat. Inst. Ment. Health fel, 62-64, Ph.D.(psychol), 64. Admissions counsr, Ripon Col, 55-57; teacher, high sch, Wis, 57-61; teaching asst. psychol, Wisconsin, 61-62; ASST. PROF. PSYCHOL, GEORGE PEABODY COL, 64- Measurement consult, Clover Bottom Hosp. & Sch, Tenn, 68- U.S.A.R, 55-61. AAAS; Soc. Res. Child Develop; Psychonomic Soc; Asn. Ment. Deficiency. Mental deficiency; discrimination learning; concept formation; long term retention; analysis of variance; computer applications in the behaviorial sciences; learning deficits in the intellectually handicapped. Publ: Co-auth, Reversal and nonreversal shift learning in normal children and retardates of comparable mental age, J. Exp. Psychol, 1/65; auth, The role of cue value, cue novelty and overtraining in the discrimination shift performance of retardates and normal children of comparable discrimination ability, J. Exp. Child Psychol, 10/66. Address: Institute on Mental Retardation & Intellectual Development, George Peabody College, Nashville, Tenn. 37203.

HEALD, PROF. MARK M(ORTIMER), Brit. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HEALEY, GEORGE E, b. Detroit, Mich, Mar. 26, 09; m. 39; c. 3. ECONOMICS, STATISTICS. A.B, Wayne, 32. Acct. exec, Merrill Lynch Fenner Beane, Mich, 33-40; statistician, Hudson Motor Co, 41, planning supvr, 42-43, asst. prod. control mgr, 45, asst. mgr. statist, 46-49; methods eng. supvr, Westinghouse Elec. Co, 44; sales planning mgr. & economist, NEW HOLLAND-DIV. SPERRY RAND CORP, 49-60, MGR. MKT. RES, 60- Statist. Asn; Agr. Econ. Asn; Mkt. Asn; Asn. Bus. Econ. General and agricultural economics; sales operations; forecasting. Address: 1051 Grand View Blvd, Lancaster, Pa. 17601.

HEALY, PROF. CHESTER F(RANCIS), JR, b. Worcester, Mass, May 17, 31; m. 58; c. 1. ECONOMICS. B.S, California, Los Angeles, 54, M.B.A, 55, Employers Mutuals of Waussau fel, 58-59, Will Rogers Mem. fels, 58-59, 60-61. Assoc. personnel & indust. rels, California, Los Angeles, 58-61; ASST. PROF. STATIST, SACRAMENTO STATE COL, 61- Fel, center for ins. res, California, Los Angeles, 57-, lectr, 60- Consult, Richard Healy Co, Inc, Mass, 59- V.pres, Sci. Mgt, Inc, Calif, 61- Econ. Asn. Management theory and insurance; comparative analysis of health insurance contracts; economic impact of deferred income planning. Publ: Doctoral dissertations in management, 1951-1956; Some critical comments on medical insurance. Address: Division of Business Administration, Sacramento State College, 6000 Jay St, Sacramento, Calif. 95819.

HEALY, PROF. COLLINS, b. New York, N.Y, Dec. 30, 07; m. 49. PSYCHOLOGY. B.A, St. John's (N.Y), 31; M.A, Columbia, 32; Fordham, 39-41. Ed. adv, U.S. Civilian Conserv. Corps, N.Y, 34-35; instr. psychol. & ed, Nazareth Col.(Mich), 35-36; lectr. Celtic studies, exten, Columbia, 38-43; psychologist, Vet. Adv. Unit, City Col. New York, 44-47; lectr, PSYCHOL, Temple, 47-54; ASSOC. PROF, CHEYNEY STATE COL, 58- Lectr, Fordham, 36-42, 46-55; instr, St. John's (N.Y), 40-42, 44-45; counsr, Drexel Inst. Tech, 55-65; lectr, Rutgers, Camden Campus, 67- Civilian with U.S. War Dept, 42-44. AAAS; Psychol. Asn; Nat. Coun. Grad. Ed. Psychol; Nat. Asn. Gifted Children; Asn. Clin. Counsr; Int. Coun. Psychol; Interam. Soc. Psychol. Educational psychology of exceptional children, especially the talented; background and definitive acts of American heroes; cultural analysis and specification of the Irish; comparative Celtic lexicography. Publ: Deirín Dé: anthology of Gaelic verse; Survey of Celtic offerings in American colleges and universities; Instrument to measure the preparation and function of Catholic secondary school counselors. Address: Dept. of Psychology, P.O. Box 1, Cheyney State College, Cheyney, Pa. 19319.

HEALY, PROF. KENT T(ENNEY), b. Chicago, Ill, Feb. 2, 02. ECONOMICS. A.B, Harvard, 21; B.S, Mass. Inst. Tech, 23; A.M, Yale, 45. Asst. prof. transportation, YALE, 28-35, econ, 35-40, assoc. prof, 40-45, CUYLER PROF. TRANSPORTATION & CHMN. CMT. TRANSPORTATION, 45-, chmn. dept. econ, 45-51, acting chmn, 55-56, chmn. univ. cmt. statist, 47-53, exec. cmt. soc. sci, 48-50, dir. div. soc. sci, 56-59. Consult, Nat. Resources Planning Bd, 40; bituminous coal div, U.S. Dept. Interior, 41; Lend Lease, 42-44; Off. Strategic Serv; dir. transportation, State of N.Y, 59-60. Mem. State Hwy. Adv. Cmn, Conn, 43-45; transport coun, U.S. Dept. Commerce, 52-57; chmn, Conn. Savings Bank R.R. Invest. Cmn, 45-; U.S. Del, UN Conf. Appln. Sci. & Tech. to Less Developed Areas, 63. Steam railroad electrification; economics of transportation in America; regularization of capital investment in railroads; effect of scale in the railroad industry. Address: Dept. of Economics, Yale University, New Haven, Conn. 06250.

HEALY, SISTER MARY EDWARD, C.S.J, Sociol, see 10th ed, Soc. & Behav. Vols.

HEANY, DR. DONALD F(RANCIS), b. Washington, D.C, Mar. 29, 18; m. 46; c. 2. ECONOMICS. A.B, Georgetown, 40, fel. & A.M, 41; fel, Harvard, 47-48, Ph.D.(econ), 50. From instr. to asst. prof. econ, Notre Dame, 48-51; opers. analyst, opers. res. off, Hopkins, 52-56; CONSULT, opers. res. off, GEN. ELEC. CO, 56-61, opers. res. & synthesis ed. div, 61-62, ADV. INFO. SYSTS, INFO. SYSTS. SERV, 62- Lectr, Georgetown, 53-56; pres, New York City Col. Planning, 59-60. Consult, opers. res. off, Hopkins, 56-57. U.S.A, 42-45, 51-52, Maj. Opers. Res. Soc; Inst. Mgt. Sci. Industrial organization; operations research; military applications; economic statistics. Publ: Introduction to information systems, Ronald, 68. Address: General Electric Co, 570 Lexington Ave, New York, N.Y. 10022.

HEAPHEY, PROF. JAMES J(OSEPH), b. Cleveland, Ohio, July 28, 30; m. 57; c. 2. PUBLIC ADMINISTRATION. B.A, Western Reserve, 57; Maschke fel. California, 57-58, M.A, 58, Woodrow Wilson fel, 59-60, Ph.D.(polit. sci), 61. Asst. polit. sci, California, 58-59; legis. intern, Calif. State Assembly, 60-61; asst. prof. polit. sci, California, Berkeley, 61-63; pub. & int. affairs, Pittsburgh, 63-64, ASSOC. PROF, 64-66; PUB. ADMIN, STATE UNIV. N.Y. ALBANY, 66- Am. specialist abroad, U.S. State Dept, 68. U.S.A.F, 51-54. Soc. Pub. Admin; Polit. Sci. Asn. Theories of national development; comparative administration; organization theory. Publ: Uncle Sam's intellectual inhibitions; Spatial aspects of development administration, CAG Occasional Paper, 1/66; The organization of Egypt, World Polit, 12/66. Address: 12 Park Place, Delmar, N.Y. 12054.

HEARD, PROF. ALEXANDER, b. Savannah, Ga, Mar. 14, 17; m. 49; c. 4. POLITICAL SCIENCE. A.B, North Carolina, 38; univ. fel. Columbia, 38-39. M.A, 48, Gen. Ed. Bd. fel, 49-50, Ph.D.(polit. sci), 51, LL.D, 65. Res. assoc, bur. pub. admin, Alabama, 46-49; assoc. prof. polit. sci, North Carolina, Chapel Hill, 50-51, res. assoc, inst. res. soc. sci, 50-51, res. prof, 52-58, prof. polit. sci, 52-63, dean grad. sch, 58-63; PROF. POLIT. SCI. & CHANCELLOR, VANDERBILT, 63- Ford res. prof, Harvard, 57-58. Consult, Subcmt. Privileges & Elections, U.S. Senate, 56-57. Trustee, Nat. Center Ed. Polit, 56-66, v.chmn, 59-62; trustee, Citizens' Res. Found. v.pres, 58-; case adv. cmt, Eagleton Inst. Polit, 58-62; chmn. elect, Coun. Grad. Schs. in U.S, 61-62; chmn, President's Cmn. Campaign Costs, 61-62; mem. bd. dirs, Am. Coun. Learned Soc, 63-66; trustee, Ford Found, 67-; mem, U.S. Adv. Cmn. Intergovt. Rels, 67- U.S.N.R, 43-46, Lt. Am. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; Int. Polit. Sci. Asn. Publ: A two-party south?; Costs of democracy; co-auth, Southern primaries and elections. Address: Vanderbilt University, Nashville, Tenn. 37203.

HEARN, DEAN GORDON, b. Winnipeg, Man, Mar. 2, 14; nat; m. 39; c. 3. SOCIAL SCIENCE. B.A, Manitoba, 34; M.S, George Williams Col, 39; Ph.D, Mass. Inst. Tech, 48. From asst. prof. to prof. soc. welfare & asst. dean students, California, 48-62; DEAN, SCH. SOC. WORK, PORTLAND STATE COL, 62- Cassidy vis. res. prof, Toronto, 55-56; fel. & nat. bd. mem. Inst. Appl. Behav. Sci, Nat. Trainings Labs, 64-67. Consult, Vet. Admin. Hosp, Roseberg, Ore, 62- Psychol. Asn; Sociol. Asn; fel. Soc. Psychol. Study Social Issues. Group psychology; application of general systems approach to field of social welfare. Publ: Theory building in social work. Address: School of Social Work, Portland State College, Portland, Ore. 97207.

HEARN, DR. HERSHEL L(EROY), b. Heavener, Okla, Mar. 6, 32; m. 67. SOCIOLOGY. B.A, Tulsa, 59, M.A, 61; Ph.D.(sociol), Missouri, 66. Instr. SOCIOL, Stephens Col, 61-65; ASST. PROF, Northeast. State Col, 65-66; Tulsa, 66-67; MISSOURI, KANSAS CITY, 67- Sociol. Asn. Sociology of work and art. Publ: The student actress: a case study of professionalization, Proc. Southwest. Sociol. Asn, 67; co-auth, Identity and institutional imperatives: the case of the professionalization of the student actress, Sociol. Quart, (in press). Address: Dept. of Sociology, University of Missouri at Kansas City, Kansas City, Mo. 64110.

HEARN, S(AUL) D, b. New York, N.Y, Apr. 12, 14; m. 37; c. 2. STATISTICS. B.S, Brooklyn Col, 34; M.A, George Washington, 38. Economist, U.S. Dept. Agr, 38-42; statistician, War Prod. Bd, 42-43; chief, employee statist. sect, Bur. Old Age & Survivors Ins, SOC. SECURITY ADMIN, 44-61, Statist. Processing Methods Sect, 61-63, opers. res. analyst, Opers. Res. Staff, 63-66, CHIEF EVAL. & MEASUREMENT STAFF, OFF. RES. & STATIST, 66- Instr, Baltimore, 46- U.S.A, 45-46. Statist. Asn; Opers. Res. Soc; Asn. Comput. Mach. Utilization of electronic computers for statistical data processing; development of automatic programming techniques for electronic computers; techniques for providing management with instant data based on exception reporting techniques and new computer systems. Publ: The Social Security Administration continuous work history sample, Am. Statist. Asn. Procedures, 63; co-auth, Computers as an aid in the decision process for disability claims under SSA, Proc. Opers. Res. Soc. Meetings, 66 & Conceptual analysis of characteristics of a national medical information system, Dept. Health, Ed. & Welfare Internal Report, 66. Address: Evaluation & Measurement Staff, Office of Research & Statistics, Social Security Administration, Baltimore, Md. 21235.

HEARST, PROF. ELIOT S(ANFORD), b. New York, N.Y, July 7, 32. EXPERIMENTAL PSYCHOLOGY. B.A, Columbia, 53, Harry Carman fel. & M.A, 54, Ph.D.(psychol), 56. Asst. psychol, Columbia, 54-56; res. psychologist, Walter Reed Army Inst. Res, 56-58; exp. psychologist, Nat. Inst. Ment. Health, 58-64; PROF. PSYCHOL, MISSOURI, 65- Nat. Inst. Ment. Health spec. fel, Royal Col. Surgeons, London, 64-65; consult, study sect. grants, Nat. Inst. Ment. Health, 66-70. U.S.A, 56-58, Res, 58-62. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc. Psychopharmacology; animal behavior; physiological psychology; language. Publ: Approach, avoidance and stimulus generalization, In: Stimulus generalization, Stanford, 65; Oscillatory behavior during approach avoidance conflict, J. Exp. Anal. Behav, 67; Aversive conditioning and external stimulus control, In: Punishment, Appleton, 68. Address: Dept. of Psychology, University of Missouri, Columbia, Mo. 65201.

HEATH, BARBARA HONEYMAN, Phys. Anthrop, see Suppl. V to 11th ed, Phys. & Biol. Vols.

HEATH, DR. DOUGLAS H(AMILTON), b. Woodbury, N.J, Oct. 1, 25; m. 52; c. 3. PSYCHOLOGY. B.A, Amherst Col, 49, Simpson fel, 49; M.A, Harvard, 51, Ph.D.(soc. rel), 54. Res. assoc, grad. sch. ed, Harvard, 52-53, instr, guid. dept, 53-54; asst. prof. PSYCHOL, HAVERFORD COL, 54-58, assoc. prof, 58-65, PROF, 65-, chmn. dept. 58-65, 67-68. Nat. Sci. Found. faculty fel, 57-58; Fulbright traveling res. fel, 65-66. Res. consult, Acad. Relig. & Ment. Health, 67- U.S.A, 44-46. Psychol. Asn; Soc. Proj. Tech; Acad. Relig. & Ment. Health. Personality theory; conditions for the development of mature individuals; motivational factors and their effect on intellectual functions. Publ: Explorations of maturity, Appleton, 65. Address: Dept. of Psychology, Haverford College, Haverford, Pa. 19041.

HEATH, DR. DWIGHT B(RALEY), b. Hartford, Conn, Nov. 19, 30; m. 55; c. 1. ANTHROPOLOGY. A.B, Harvard Col, 52; univ. scholar, Jr. Sterling & Sterling fels, Yale, 54-58, Doherty Found. fel, 56-57, Soc. Sci. Res. Coun. fel, 56-58, Ph.D, 59. Reader ANTHROP, Yale, 58-59; instr, BROWN, 59-60, asst. prof, 60-62, ASSOC. PROF, 63-, res. fels, 61-64, 66-67. Res. assoc, Res. Inst. Study Man, 64-65. Consult. anthrop, Peace Corps, 61-63; dir, Bolivia Res. Team, Land Tenure Center, summer, 63. Mem. exec. bd, Am-Indian Ethnohist. Conf, 60-61. U.S.A, 52-54. Fel. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop; Ethnol. Soc; fel. Latin Am. Studies Asn; fel. Royal Anthrop. Inst. Ethnology of Camba and Aymara of Bolivia, and Navaho; cultural change; drinking patterns; social and economic systems; ethnohistory; urban anthropology. Publ: Co-auth, Contemporary cultures and societies of Latin America, Random, 65 & Land reform and social revolution in Bolivia, Praeger, 68; auth, Drinking patterns of the Bolivian Camba, Quart. J. Studies Alcohol, 59. Address: Dept. of Sociology & Anthropology, Brown University, Providence, R.I. 02912.

HEATH, PROF. HARRY E(UGENE), JR, b. Iola, Kans, May 17, 19; m. 42; c. 2. JOURNALISM. A.B, Tulsa, 41; M.S.J, Northwestern, 47; Ph.D, Iowa State, 56. Instr. journalism. Tulsa, 46-47; Oregon, 47-48; from asst. prof. to assoc. prof, Iowa State, 48-61; prof. Okla. State, 61-65; Florida, 65-67; PROF. JOURNALISM & DIR. SCH. OKLA. STATE, 67- Chmn. Nat. Coun. Radio-TV Journalism. U.S.A, 42-46, 50-52. Maj. Asn. Ed. in Journalism. Content analysis; read-ability; typography and design; public opinion. Publ: Co-auth, Modern sportswriting & A guide to radio-TV writing; ed, Directory of journalism films. Address: School of Journalism, Oklahoma State University, Stillwater, Okla. 74074.

HEATH, DR. HELEN AUGUSTA, Psychol, Statist, see 10th ed, Soc. & Behav. Vols.

HEATH, PROF. MILTON S(YDNEY), b. Burns, Kans, Jan. 5, 94. ECONOMICS. A.B, Kansas, 20; A.M, Harvard, 24, Ph.D, 38. Instr, Kansas, 20-21; asst. instr, Harvard, 21-23, 24-25; asst. prof, Tufts Col, 23-24; ECON, NORTH CAROLINA, 25-28, assoc. prof, 28-38, PROF, 38-, RES. PROF, INST. RES. SOC. SCI, 58-, chmn. dept. econ, 53-55, grad. studies & res. econ. & bus. admin, 55-58. Econ. Asn; Economet. Soc; Econ. Hist. Asn. (v.pres, 66-68); Brit. Econ. Hist. Soc. Economic theory; Southern economic history; business organization and social control. Publ: Constructive liberalism: the role of the state in the economic development of Georgia, 1730-1861; American textile industry in transition, (in press). Address: Dept. of Economics, University of North Carolina, Chapel Hill, N.C. 27514.

HEATH, PROF. RALPH C(YRUS), Mkt, Econ, see 10th ed, Soc. & Behav. Vols.

HEATH, DR. ROBERT W(ILLIAM), b. Lafayette, Ind, Mar. 30, 31; m. 50; c. 3. SOCIAL PSYCHOLOGY. B.S, Purdue, 54, M.S, 55, Ph.D, 57. Asst. to dir, div. ed, reference & asst. ed, Purdue Opinion Panel, Purdue, 56-57, asst. dir. & assoc. ed, 57-58; res. psychologist & lectr. ed, Arizona, 58-62; prfnl. assoc, Ed. Testing Serv, 62-66; RES. ASSOC, RES. & DEVELOP. CENTER, STANFORD, 66- Test ed, State High Sch. Testing Serv, Inc, 57-58. Mem, tech. adv. cmt. testing, Calif. State Fair Employment Practices Cmn, 65-67. Consult, div. compensatory ed, Calif. State Dept. Ed, 66-; west. regional off, Off. Econ. Opportunity, 67- AAAS; Psychol. Asn; Statist. Asn. Social psychology; psychological measurement. Publ: Basic statistical methods; ed, New curricula, Harper, 64; An index of social class identification, Sociol. Inquiry. Address: P.O. Box 6566, Stanford, Calif. 94305.

HEATH, PROF. ROY, b. Trenton, N.J, May 31, 17; m. 46; c. 2. PSYCHOLOGY. A.B, Princeton, 39; fel, Vineland Training Sch, 39-41; M.A, Pennsylvania, 47, Ph.D, 52. Res. psychologist, Vineland Training Sch, 46-47; student counsr, Princeton, 47-55; assoc. prof. psychol. & col. counsr, Knox Col, 55-56; dir. univ. counseling center, Pittsburgh, 56-63; vis. prof. PSYCHOL, Amherst Col, 63-64; PROF, TRINITY COL, 64- U.S.A, 42-46. Psychol. Asn. Rail-walking test of locomotor coordination; student development. Publ: The reasonable adventurer, Univ. Pittsburgh, 64. Address: Dept. of Psychology, Trinity College, Hartford, Conn. 06106.

HEATH, PROF. WILLIS ROBERTSON, b. Seattle, Wash, July 4, 08; m. 29. GEOGRAPHY, CARTOGRAPHY. B.A, Washington (Seattle), 54, M.A, 55, Ph.D, 58. Lectr, GEOG. & CARTOG, Chicago, 56-57; PROF, WASHINGTON (SEATTLE), 57- U.S.N, 42-45. Geog. Soc; Asn. Am. Geog; Cong. Surv. & Mapping. Experimental cartography, including maps for blind; geography of Latin America. Publ: Co-auth, Marine atlas, Craftsman Press, Vols. I & II, 68. Address: 420 Smith Hall, University of Washington, Seattle, Wash. 98105.

HEATHER, DEAN GEORGE, b. La Plata, Mo, May 9, 17; m. 46; c. 4. ECONOMICS. B.S, Southwest Mo. State Col, 38; A.M, Iowa, 42, Ph.D.(econ, bus. admin), 46. Instr, cols. commerce & ed, Iowa, 42-45; asst. prof. econ. & bus. admin, Ft. Hays Kans. State Col, 46; assoc. prof. & dir. curriculum, col. bus. admin, Denver, 46-47; prof. & head dept. commerce, Fla. State, 47-49; PROF. FINANCE & DEAN SCH. BUS. ADMIN, TEX. TECH. COL, 50- Business administration. Address: School of Business Administration, Texas Technological College, Lubbock, Tex. 79409.

HEATHERINGTON, DONALD F(ULLER), b. Richmond, Vt, Oct. 28, 15; m. 41. ECONOMICS, POLITICAL SCIENCE. B.S, Washington & Lee, 37; M.A, Yale, 39. Instr. econ. & bus. admin, Rensselaer Polytech, 39-41; soc. sci, Westbrook Jr. Col, 41-42; chief, econ. analyst, U.S. Dept. Commerce, 42-44, econ. analyst, 44-45, chief, United Kingdom sect, Brit. Empire Unit, 45-46, adv, Brit. Commonwealth Finance, 46-48; dir. European div, Nat. For. Trade Coun, Inc, 48-62, v.pres, 62-67; spec. asst. to asst. secy. econ. affairs, U.S. DEPT. COMMERCE, 67-68, ASST. DIR, OFF. FOR. DIRECT INVESTMENT, 68- Consult, Econ. Coop. Admin, 48. Econ. Asn; Finance Asn; Royal Econ. Soc; Soc. Int. Develop; Asn. Bus. Econ; Polit. Sci. Asn. International trade and finance; British Commonwealth. Publ: The sterling area; Britain's economic crisis; British postwar balance of international payments. Address: 1 Washington Circle, Washington, D.C. 20037.

HEATHERS, DR. GLEN, Psychol, see 10th ed, Soc. & Behav. Vols.

HEATON, PROF. HERBERT, Econ. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HEATON, DR. KENNETH L(OUIS), b. Bloomington, Ind, May 26, 02; m; c. 2. PSYCHOLOGY. A.B, Indiana, 24; fel, Chicago, 28-29, Ph.D.(psychol), 31. Dir, State Bur. Res, Mich, 33-41; prin. consult, U.S. Dir. Civil Defense, 41-43; chief prog. develop, civilian personnel & training, Off. Secy. War, 44-46; dean admin, Boston, 46-50; mgt. consult, Richardson, Bellows, Henry & Co, 50-55; PARTNER, HEATON, FLOYD & WATSON, 55- Dir. evaluation, U.S. Mutual Security Prog. for President-Elect, 52-53. Res. consult, U.S. Strategic Bombing Surv, 45; consult, Secy. Defense, 47-51; Nat. Security Resources Bd, 52. Chmn, postwar planning cmt. civilian personnel, Secy. War, 45-47. Fel. AAAS. Executive development; personnel and training for domestic and foreign industry. Publ: Curriculum based on functional needs of students; Guide for industrial managers; Personnel selection (foreign industries). Address: 1110 The Cambridge School House Lane, Philadelphia, Pa. 19144.

HEATON, DR. MARTHA H(ELENE), b. Emporia, Kans, July 7, 12. PSYCHOLOGY. A.B, Col. Emporia, 33; A.M, Kansas, 38; Ph.D.(psychol), Chicago, 53. Psychometrist, Topeka Bd. Ed, 39-43; PSYCHOLOGIST, State Div. Child Welfare, Kans, 43-45; Champaign Community Schs, 46-55; Akron Child Guid. Center, 55-60; WAYNE-MEDIN & HOLMES GUID. CENTER, 60- Psychol. Asn. Emotional problems of children; social perception of children; play therapy. Address: 920 Ridgecrest Dr, Wooster, Ohio 44691.

HEATWOLE, PROF. RAYMOND WILLIAM, b. Dayton, Va, Oct. 25, 18; m. 42; c. 1. ECONOMICS, ACCOUNTING. B.S, Virginia, 39, fel. & M.A, 47, Ph.D. (econ), 54. Instr. econ. & bus. admin, Furman, 41-42; asst. econ. statistician, War Prod. Bd, D.C, 42; assoc. prof. ECON. & BUS. ADMIN, FURMAN, 46-47, PROF, 57-, DIR. EVE. DIV, 59- Summer, Ford Faculty res. fel, Duke, 61. U.S.A, 42-46, Res, 46-, Maj. Econ. Asn. Economic and accounting theory; money and banking; statistics; personal and public finance. Publ: Co-auth, Principles of accounting; auth, Competition of federal lending agencies with commercial banks in Albemarle County, Virginia. Address: Dept. of Economics & Business Administration, Furman University, Greenville, S.C. 29613.

HEBAL, DR. JOHN J(AMES), b. Oak Park, Ill, Mar. 9, 25. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. Ph.B, Wisconsin, 47; M.A, Alabama, 48; Ph.D.(polit. sci), Minnesota, 59. Acting instr. POLIT. SCI, Wash. State, 56-57; instr, Maryland, 57-59, lectr, overseas br, Europe, 59-61; vis. asst. prof, Minnesota, 61-62; asst. prof, WEST. WASH. STATE COL, 62-64, ASSOC. PROF, 64- Polit. Sci. Asn; Soc. Pub. Admin; Inst. Pub. Admin. Can. Comparative public administration; state and local government; natural resources administration. Publ: Generalist vs. specialist in the Bureau of Indian Affairs, Pub. Admin. Rev; Training and development in the Pacific Northwest: British Columbia, Oregon, and Washington, 6/64 & Approaches to regional and metropolitan government in Canada and the United States, 6/67, Can. Pub. Admin. Address: Dept. of Political Science, Western Washington State College, Bellingham, Wash. 98225.

HEBB, PROF. D(ONALD) O(LDING), b. Chester, N.S, July 22, 04; m. 37; c. 2. PSYCHOLOGY. B.A, Dalhousie, 25; M.A, McGill, 32; Chicago, 34-35; Ph.D. (psychol), Harvard, 36; hon. Sc.D, Chicago, 61, Waterloo, 63; L.H.D, Northeastern, 63; LL.D, Dalhousie, 65. Instr. & asst. psychol, Harvard, 36-37; Rockefeller fel, Montreal Neurol. Inst, McGill, 37-39, lectr. psychol, 38-39; exp. psychol, Queen's (Ont), 39-41, asst. prof, 41-42; fel, Yerkes Labs. Primate Biol, 42-47; PROF. PSYCHOL, McGILL, 47-, chmn. dept, 48-58. Fel. AAAS; fel. Psychol. Asn.(pres, 59); fel. Can. Psychol. Asn.(pres, 52); hon. fel. Brit. Psychol. Soc; fel. Royal Soc. Can; fel. Royal Soc. Comparative and experimental psychology. Publ: Organization of behavior, Wiley, 49; Textbook of psychology, Saunders, 2nd ed, 66. Address: Dept. of Psychology, McGill University, Montreal 2, Que, Can.

HEBER, DR. RICK FRANK, b. Winnipeg, Man, Dec. 1, 32; nat; m. 53; c. 3. PSYCHOLOGY. A.B, Arkansas, 53; M.A, Mich. State, 55; fel, Peabody Col, 55-57, Ph.D, 57. Res. assoc, tech. planning proj. ment. retardation, Am. Asn. Ment. Deficiency, 57-60; RES. PROF. STUDIES IN BEHAV. DISABILITIES. WISCONSIN. MADISON, 60-, DIR. MENT. RETARDATION CENTER, 66- Instr, inst. ment. retardation, Am. Psychol. Asn, 57; res. dir, President's Panel Ment. Retardation, 61- Chmn. res. cmt, Int. Cong. Ment. Retardation, 67- Coun. Except. Children; Psychol. Asn; Asn. Ment. Deficiency. Neurological correlates and techniques for remediation of learning disabilities; special education of mentally retarded. Publ: Manual on terminology and classification in mental retardation; co-auth, Preparation of mentally retarded for gainful employment; co-ed, Research in mental retardation. Address: Dept. of Studies in Behavioral Disabilities, 415 W. Gilman St, University of Wisconsin, Madison, Wis. 53706.

HEBERLE, PROF. RUDOLF, b. Luebeck, Germany, July 3, 96. SOCIOLOGY. Dr. sc. pol, Keil, 23, Dr. phil. h.c, 65. Instr, Koenigsberg, 23-26; soc. sci. res. fel, Rockefeller Found, 26-29; privat-docent, Kiel, 29-38; prof. SOCIOL, LA. STATE, 38-55, BOYD PROF, 55- Sociol. Asn; Sociol. Res. Asn; Rural Sociol. Soc; Pop. Asn; Cor. Mem. German Sociol. Soc; Int. Union

Sci. Study of Pop. Political sociology; population; internal and international migration. Publ: Mobility of population in the United States; From democracy to Nazism; Social movements. Address: 1637 Cloverdale Ave, Baton Rouge, La. 70808.

HECHT, DR. MANFRED H, b. Vienna, Austria, Dec. 6, 18; nat; m. 41; c. 1. CLINICAL PSYCHOLOGY. M.A, Columbia, 55, Ph.D, 58. Intern clin. psychol, Vet. Admin, 55-58; assoc. psychologist, POST-GRAD. CENTER MENT. HEALTH, 58-62, DIR. PASTORAL COUNSELING PROG, 64- Adj. prof, N.Y. Theol. Sem, 67- Private practice, 58-; asst. dir, dept. community serv. & ed, Post-Grad. Center Ment. Health, 63-67, assoc. dir, 67-, assoc. supvr. adult ther. & mem. prfnl. bd, 66- Psychol. consult, Music Ther. Center, N.Y, 62- Mil. Intel, 43-45. Psychol. Asn; Group Psychother. Asn; fel. Coun. Psychoanal. Psychother. Perception of parental figures in schizophrenia; psychotherapy; psychoanalysis; eclectic approaches to psychoanalytic psychotherapy; dynamics of bereavement; psychoanalyst and the community; tensions at work. Publ: Tensions on the job, New Outlook, 11/63; 11/63; The development of a training program in pastoral counseling at a mental health center, Int. Ment. Health Res. News Letter, winter 65. Address: 7 Pomander Walk, New York, N.Y. 10025.

HECHT, PROF. MELVIN EDWIN, b. Chicago, Ill, June 8, 26; m. 52; c. 3. GEOGRAPHY. A.B, Valparaiso, 48; M.A, Northwestern, 50; Ph.D, Kansas, 62. Asst. prof. GEOG, ARIZONA, 56-62, assoc. prof, 62-68, PROF, 68- Geog. Soc; Nat. Coun. Geog. Ed; Asn. Am. Geog. Settlement in the American Southwest. Publ: Contrib, Arizona; its people and resources; auth, Changing settlement features of Arizona, Geographische Rundschau, 7/66. Address: Business & Public Administration Bldg, University of Arizona, Tucson, Ariz. 85721.

HECK, PROF. HAROLD J(OSEPH), b. Brusly, La, Jan. 7, 06; m. 35; c. 3. ECONOMICS. B.A, La. State, 26, M.A, 31; M.B.A, Pennsylvania, 33; D.C.S, N.Y. Univ, 39. Lectr. econ. & finance, St. Joseph's Col.(Pa), 38-41; sch. for. serv, Georgetown, 41-45; prof. econ, Loyola (La), 46-47; bus. admin. & econ, Tulane, 47-59; chmn. div. econ. & bus. res, 49-52; commercial attaché, Am. Embassy, Paris, France, 57-62; dir. int. trade anal. div, U.S. Dept. Commerce, 62-64; PROF. INT. TRADE & TRANSPORTATION & CHMN. DEPT, SCH. FOR. SERV, GEORGETOWN, 64- Asst. secy, Robert Morris Assoc, Phila, Pa, 38-41; dir. res, Int. House, New Orleans, La, 48-49; Fulbright vis. prof, Waseda Univ, Japan, 52-53. Ord.C, 42-46, Col. Econ. Asn; Planning Asn. Finance and banking; foreign trade. Publ: Foreign commerce. Address: School of Foreign Service, Georgetown University, Washington, D.C. 20007.

HECK, PROF. VICTOR C(RAWFORD), Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

HECKEL, PROF. ROBERT V, b. Chicago Heights, Ill, June 12, 25; m. 57; c. 3. CLINICAL PSYCHOLOGY. B.S, Pa. State, 48, M.S, 49, Ph.D, 55. Asst. prof. psychol, Furman, 50-52; dir, Psychol. Supply Co, Inc, 52-61; coordinator res. & training, Vet. Admin. Hosp, Augusta, Ga, 61-64; PROF. PSYCHOL, SOUTH CAROLINA, 64- Chief psychologist, Greenville Ment. Health Clin, 51-57; asst. prof, Furman, 57-58; instr, Med. Col. Ga, 58-60, asst. clin. prof, 58- Consult, William S. Hall Inst, 65-; Pee Dee Ment. Health Center, 66- U.S.N, 43-45. Psychol. Asn. Learning in individual and group psychotherapy; effects of auditory stimuli on behavior; stress produced behavioral change in man and animals; operant conditioning. Publ: Co-auth Textbook of general psychology, 66, Pediatric nursing, 67, Mosby & The return home, State Printing Co, 67. Address: Dept. of Psychology, University of South Carolina, Columbia, S.C. 29208.

HECKERT, DR. PAUL CHARLES, b. Lewistown, Pa, May 30, 29; m. 52; c. 5. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Catawba Col, 51; B.D, Theol. Sem.(Pa), 54; M.S. Cornell, 59, Ph.D.(rural sociol), 64. Missionary, United Church of Christ, Honduras, 54-60; Methodist clergyman, N.Y, 60-64; ASSOC. PROF. SOCIOL. & CHMN. DEPT, CATAWBA COL, 64- Writer in residence, Cornell, summer 65; vis. lectr, Davidson Col, spring 66; vis. prof, Cabarrus County Mem. Hosp, winter 66; faculty intern, North Carolina Fund, summer 67; vis. prof, Livingstone Col, 67- Consult, Salisbury Community Serv. Coun, N.C, summer 66. Sociol. Asn; Rural Sociol. Asn. Interrelationship of belief, attitude and behavioral patterns, especially as they relate to religious institutions. Address: Dept. of Sociology, Catawba College, Salisbury, N.C. 28144.

HECKMAN, PROF. HARRY W(EBER), b. Mason City, Ill, June 10, 06; m. 28; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Ill. Wesleyan, 29; Chicago, 29-30; M.S, Illinois, 32, Ph.D, 38. Asst. prof. econ. & bus. admin, Ashland Col, 36-38; Muskingum Col, 38-42; dir. control buyer training, Sears, Roebuck & Co, 42-44; price economist, Off. Price Admin, 44-47; econ. training consult, R.A. Stearns & Co, 47-51; asst. regional economist, Off. Price Stabilization, 51-53; mem. faculty bus. admin, Elmhurst Col, 53-55; indust. specialist, Ord. Corps, U.S. Dept. Army, 55-58; PROF. ECON. & CHMN. DEPT. ECON. & BUS. ADMIN, N.CENT. COL.(ILL), 58- Econ. Asn. Workmen's compensation legislation; economic training for industry; economic education at high school level. Publ: Economics of American living; Economic illiteracy; growing threat to free enterprise, Commerce; Labor problems of aliens. Address: 3837 Grand Ave, Western Springs, Ill. 60558.

HECKMAN, DR. RICHARD ALLEN, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HECKMANN, PROF. I(RVIN) L(EE), JR, b. Omaha, Nebr, Apr. 25, 25; m. 53; c. 1. BUSINESS MANAGEMENT. B.S, Creighton, 50; M.B.A, Wisconsin, 51, Found. Econ. Ed. fel. & Ph.D.(commerce), 55. Assoc. prof. mgt, Illinois, Urbana, 54-63, acting head dept, 61-63; PROF. MGT. & DEAN COL. BUS. ADMIN, Creighton, 63-68; ILLINOIS, CHICAGO, 68- Mem. bd. trustees, Nebr. Coun. Econ. Ed, 65- U.S.A, 43-46. Econ. Asn; Acad. Mgt; Mgt. Asn; Inst. Mgt. Personnel administration; industrial relations; human relations; critical requirements of executive development. Publ: Co-auth, Human relations in management, Management of personnel function & Personnel administration in a changing society, Int. Pub, 68. Address: College of Business Administration, University of Illinois at Chicago Circle, Box 4348, Chicago, Ill. 60680.

HECOCK, PROF. DONALD S(UMNER), b. Elyria, Ohio, Dec. 16, 06; m. 37; c. 2. POLITICS, PUBLIC ADMINISTRATION. A.B, Ohio Wesleyan, 29; A.M, Ohio State, 31; fel, Syracuse, 33-36, Ph.D, 36. From instr. to PROF. POLIT. SCI. WAYNE STATE, 36- Dir, Police Admin. Prog, 66- Soc. Pub. Admin. Public opinion; election behavior. Address: 19982 Picadilly Rd, Detroit, Mich. 48221.

HECOCK, DR. RICHARD D(OUGLAS), b. Detroit, Mich, Jan. 9, 39; m. 67. GEOGRAPHY. B.A, Albion Col, 60; M.A, Wayne State, 63; Ph.D.(geog), Clark, 66. ASST. PROF. GEOG, EASTERN MICHIGAN, 65- Nat. Sci. Found. asst. proj. dir, Cmn. Col. Geog, 66- Asn. Am. Geog. Investigation of regional variations in consumer expenditures; economic aspects of deteriorating recreational lakes; patterns of choice by recreationists. Address: Dept. of Geography, Eastern Michigan University, Ypsilanti, Mich. 48197.

HEDAHL, PROF. BEULAH M(INERVA), b. Bismarck, N.Dak, Sept. 12, 20. EDUCATIONAL PSYCHOLOGY. B.A, Concordia Col.(Moorhead, Minn), 46; fel, Wash. Col, 46-48, M.A, 48; M.A, Minnesota, 53, Ph.D.(ed. psychol), 58. Asst. prof. eng, dean women, Pacific Lutheran (Col), 48-51; asst. counseling, col. sci. lit. & arts, Minnesota, 52-53, col. ed, 53-54, instr. ED. PSYCHOL. & asst, 54-56; instr. & counsr, counseling center, Mich. State, 56-59, asst. prof, '59-62, assoc. prof, 62-64; ASSOC. PROF. PSYCHOL & DIR. COUNSELING CENTER, NORTH DAKOTA, 64- Psychol. Asn; Personnel & Guid. Asn. Counseling and student personnel work. Address: Counseling Center, University of North Dakota, Grand Forks, N.Dak. 58201.

HEDBERG, DR. RAYMOND DAVID, Indust. Psychol, see 10th ed, Soc. & Behav. Vols.

HEDGES, PROF. BOB A(TKINSON), b. Chicago, Ill, Feb. 22, 19; m. 51; c. 2. ECONOMICS. B.S, Kansas, 40; A.M, Illinois, 50, Ph.D.(econ), 54. Asst. econ, Illinois, 48-52, instr, 52-54; asst. prof, 54-57, finance, 57-58, assoc. prof, 58-66, PROF, 66-67; INS. & ECON, TEMPLE, 67- Ford fel, Inst. Basic Math. for Application to Bus, 59-60; ed. adv, Ins. Inst. Am, 65- Elizur Wright award, 64. U.S.A, 42-45. Econ. Asn; Finance Asn. Insurance; risk; welfare economics. Publ: Co-auth, Risk Management in the Business enterprise, Irwin, 63; auth, Basis for the profit factor in fire insurance rates; Principles of analysis of underwriting expenses in property insurance. Address: School of Business Administration, Temple University, Philadelphia, Pa. 19122.

HEDGES, PROF. J(OSEPH) EDWARD, Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

HEDGES, PROF. TRIMBLE R(AYMOND), b. Banner, Okla, Sept. 24, 06; m. 27; c. 2. AGRICULTURAL ECONOMICS. B.S, Okla. State, 28; M.S, Illinois, 33, Ph.D.(econ), 38. Admin. asst. to dean & dir, Illinois, 33-34, asst. dairy mkt, 34-35, farm mgt, 35; jr. statistician, Farm Credit Admin, D.C, 35; asst. prof. & asst. agr. economist, Okla. State, 35-37, assoc. prof. & assoc. agr. economist, 37-38; head field officer, s.div, Agr. Adjust. Admin, 38; assoc. prof. & assoc. agr. economist, Arkansas, 38-41, prof. & agr. economist, 41-45, head dept. rural econ. & sociol, 45-47; assoc. prof, AGR. ECON, COL. AGR, CALIFORNIA, DAVIS, 47-54, PROF, 54-, AGR. ECONOMIST, EXP. STA. & GIANNINI FOUND, 47- Chief plans & progs. br, food & agr. div, Mutual Security Agency, Paris, 52-53. U.S.N, 43-46, Lt. Comdr. Farm management; marketing farm products; quality-price relationships of cotton at local markets in Oklahoma. Publ: Farm management decisions; co-auth, Farm management manual; auth, Economics of farm irrigation water availability and costs, and related farm adjustments, Calif. Agr. Exp. Sta. Address: Dept. of Agricultural Economics, University of California, Davis, Calif. 95616.

HEDLEY, PROF. GEORGE P(ERCY), b. Tientsin, China, Sept. 24, 99. SOCIOLOGY. A.B, Southern California, 20, A.M, 21, B.D, 24; Boston Univ, 21-22; D.Th, Pac. Sch. Relig, 38. Prof. relig. ed. & Biblical lit, Col. Puget Sound, 23-26; from teaching fel. to acting asst. prof, Pac. Sch. Relig, 26-33; acting asst. prof. New Testament lit, Hartford Theol. Sem, 33-34; dir, Pac. Coast Labor Sch, 36-41; instr, exten. div, California, 37-49; from asst. prof. to prof. SOCIOL. & ECON. & chaplain, MILLS COL, 40-65, EMER. PROF, 65- Recorder & photographer, Tell en-Nasbeh Exped, Palestine Inst, 27, 29; lectr, Mills Col, 40; Gray lectr, Duke, 55; Clark lectr, Pomona Col, 57. Biblical literature; American Christianity; symbolics. Publ: Christian Worship; Religion on the campus; The minister behind the scenes. Address: 1306 Euclid Ave, Berkeley, Calif. 94708.

HEDLUN, JAMES M(ILO), b. Chadron, Nebr, July 3, 16; m. 40; c. 2. PSYCHOLOGY, SOCIOLOGY. A.B, Denver, 48; San Diego State Col, 52-54. Gen. psychol. trainee, Navy Electronics Lab, 48-49, researcher physiol. psychol, 49-53, human engr, 53-60; eng. psychologist, Stromberg Carlson Co, Calif, 60; res. engr, Douglas Aircraft Co, 60-63, asst. sect. chief reliability eng, missile & space div, 63-65, sect. chief, 65-67, EXEC. ADV. SCI. RES, AIRCRAFT DIV, McDONNELL DOUGLAS CORP. 67- U.S.A. 43-45. Human engineering; system analysis; applied display control research studies; display simulator devices; cathode ray tube display presentation research; visual following of periodic low frequency targets and eye movement recording. Publ: Co-auth, On the frequency limits of binaural beats, J. Acoustical Soc. Am, Nystagmus induced by visual feedback, J. Optical Soc. Am. & Comparative study of five detection and tracking systems, Navy Electronics Lab. Report. Address: 22632 Ellinwood Dr, Torrance, Calif. 90505.

HEDLUND, PROF. GLENN W(ILBER), b. Raymond, Nebr, June 11, 09; m. 39; c. 3. AGRICULTURAL ECONOMICS. B.S, Nebraska, 30; Ph.D.(farm mgt), Cornell, 36. Asst, Cornell, 30-33, exten. economist, 33-36; prof. agr. econ, Nanking, 36-37; asst. prof, Cornell, 37-41; prof. agr. econ. & head dept, Pa. State, 41-46; PROF. AGR. ECON, CORNELL, 46-, HEAD DEPT, 54-, acting head dept, 52. Vis. prof, Philippines, 56-57. Consult, Ford Found, India, 64. Agr. Econ. Asn; Int. Asn. Agr. Econ. Farm finance; cooperative or-

ganization and management; sources and costs of credit used by New York farms. Address: Dept. of Agricultural Economics, Cornell University, Ithaca, N.Y. 14850.

HEDLUND, LT. COL. JAMES L(ANE), U.S.A, b. Los Angeles, Calif, Aug. 1, 28; m; c. 2. PSYCHOLOGY. B.A, Iowa, 50, M.A, 51, Ph.D, 53. U.S. ARMY, 51-, intern clin. psychol, Fitzsimons Gen. Hosp, 51-52, clin. psychologist, Army Hosp, Camp Pickett, Va, 53-54, instr, Army Med. Serv. Sch, Ft. Sam Houston, Tex, 54-56, chief clin. psychologist, 97th Gen. Hosp, Frankfurt, Germany, 56-59, dir. intern training clin. psychol, Walter Reed Gen. Hosp, 59-62, chief clin. psychol. serv, 63; psychol. consult, OFF. SURGEON GEN, 63-66, CHIEF BIOMED. STRESS RES. BR. BEHAV. SCI, HQ, U.S. ARMY MED. RES. & DEVELOP. COMMAND, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. Fel. Psychol. Asn. Development and evaluation of psychological tests and measurements; clinical and clinical-experimental research in psychology and psychiatry; administration of behavioral sciences research programs. Publ: Co-auth, Schizophrenia on duty, Am. J. Psychiat; Cross validation of the KTSA with a clinical population, J. Clin. Psychol, 1/64; An extra-hospital treatment program for schizophrenic servicemen, Mil. Med, 12/65. Address: Headquarters, U.S. Army Medical Research & Development Command, Office of the Surgeon General, Dept. of the Army, Washington, D.C. 20315.

HEDLUND, DR. RONALD D(AVID), b. Joliet, Ill, June 16, 41; m. 64. POLITICAL SCIENCE. B.A, Augustana Col.(Ill), 63; M.A, Iowa, 64, Nat. Sci. Found. grant, 66-67, Ph.D.(polit. sci), 67; Michigan, summer 65. ASST. PROF. POLIT. SCI, WISCONSIN, MILWAUKEE, 67- Nat. Conf. State Legis. Leaders scholar, 66-67; Soc. Sci. Res. Coun. faculty res. grant, 67-68; vis. lectr, Iowa State, summer 66. Polit. Sci. Asn. Socialization of legislators into legislative system; attitudes toward state legislature of legislators, lobbyists, key constituents, and cross-section of public; techniques for introducing students to political science methodology. Publ: Co-auth, Political analysis: theory and research in American politics, Sernoll, Inc, 65, Legislative politics in Iowa, In: Midwest legislative politics, Inst. Pub. Affairs, Univ. Iowa, 68 & The nature of support for legislative institutions, Midwest J. Polit. Sci, 5/68. Address: Dept. of Political Science, University of Wisconsin at Milwaukee, Milwaukee, Wis. 53201.

HEDRICH, DR. ARTHUR W(ILLIAM), Biostatist, see 10th ed, Soc. & Behav. Vols.

HEDRICH, DR. RICHARD H(ENRY), b. Princeton, Ill, Nov. 29, 29. POLITICAL SCIENCE. B.S, Northwestern, 51; Ph.D.(polit. sci), Maryland, 59. Instr. polit. sci, Maryland, 59-60; prog. assoc, res. br, U.S. Off. Ed, 60-63, asst. to exec. officer, bur. res, 63-65, exec. officer, library div, 65-66; DIR, OFF. GRANTS, NAT. ENDOWMENT FOR HUMANITIES, 66- Lectr, univ. col, Maryland, 60- U.S.N, 51-54, Res, 54-62, Lt. Polit. Sci. Asn; Soc. Int. Law. American government; public administration; international law. Address: 2020 F St. N.W, Washington, D.C. 20006.

HEDRICK, CHARLES B(ARNHART), b. Winfield, W.Va, Aug. 21, 20; m. 43; c. 1. BUSINESS ADMINISTRATION. A.B, Marshall, 42; M.B.A, Pennsylvania, 47. Indust. engr, PROCTER & GAMBLE CO, 47-48, head employ. mgt. selection, 49-54, assoc. dir. selection & training, 54-57, dir. indust. rels, 57-67, MGR. EMPLOYEE RELS, 67- U.S.N.R, 43-46, Lt. Indust. Rels. Res. Asn; Econ. Asn; Mgt. Asn; Soc. Adv. Mgt. Management selection and development; employee motivation and communication; evaluation of industrial relations programs. Publ: Feedback: a method of evaluating management training; Orientation and training of engineers during their first five years; Evaluating human relations training. Address: Employee Relations, Procter & Gamble Co, 301-331 E. Sixth St, Cincinnati, Ohio 45202.

HEDRICK, PROF. JAMES A(CTON), b. Howe, Tex, May 13, 17; m. 42; c. 3. BUSINESS ADMINISTRATION. Fel. & Ed.D, N.Tex. State Col, 54. Asst. prof. ACCT. & BUS. ADMIN, Ark. Polytech. Col, 47-52; PROF, HARDING COL, 52-, CHMN. DEPT. BUS. & ECON, 65- U.S.A, 41-46, Capt. Acct. Asn: Inst. Cert. Pub. Acct. Accounting; credit by examination; problems of the superior student. Address: Harding College, Box 551, Station A, Searcy, Ark. 72143.

HEDSTROM, DR. LLOYD JAMES, b. Los Angeles, Calif, Apr. 19, 29. CLINICAL PSYCHOLOGY. B.A, Pepperdine Col, 51, M.A, 53; Ph.D.(psychol), California, Los Angeles, 66. Psychometrist, PEPPERDINE COL, 55-56, instr. PSYCHOL, 56-59, asst. prof, 59-63; ASSOC. PROF, 65- Counsr, student health serv, California, Los Angeles, 59-63. U.S.A, 53-55. Psychol. Asn. Abnormal psychology; personality theory; psychological testing. Address: Dept. of Psychology, Pepperdine College, 79th St. & Vermont Ave, Los Angeles, Calif. 90044.

HEER, DR. DAVID (M), b. Chapel Hill, N.C, Apr. 15, 30; m. 57; c. 2. SOCIOLOGY. A.B, Harvard, 50, A.M, 54, Ph.D, 58. Statistician, soc. statist. br, pop. div, U.S. Bur. Census, 57-61; lectr. sociol, California, Berkeley, 61-63; from asst. prof. biostatist. & demog. to ASSOC. PROF. DEMOG, SCH. PUB. HEALTH, HARVARD, 64- Pub. Health Asn; Int. Union Sci. Study of Pop: Sociol. Asn; Pop. Asn; Nat. Coun. Family Rels. Demography; family; social structure of the Soviet Union. Publ: After nuclear attack: a demographic inquiry, Praeger, 65; Society and population, Prentice-Hall, 68; Economic development and fertility, In: Demography, 66. Address: Harvard University School of Public Health, 665 Huntington Ave, Boston, Mass. 02115.

HEFFELFINGER, PROF. CLARENCE E(DGAR), b. Milton, Pa, Apr. 3, 98. ECONOMICS. A.B, Ursinus Col, 20, Litt.D, 53; M.S, Columbia, 31. Asst. prof, Washington & Jefferson Col, 31-39; assoc. prof. econ. & bus. admin, CENTRE COL, 41-63, dean men, 44-48, EMER. PROF. ECON. & BUS. ADMIN, 63- Assoc. prof, Union (Tenn), 63-65. Bronze medal, Chinese Govt, 27. Fel. Geog. Soc. Accounting; economic geography; economic development of the Yangtze valley in China. Address: 123 Locust St, Milton, Pa. 17847.

HEFFERLINE, PROF. RALPH F(RANKLIN), Psychol, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

HEFFNER, RICHARD D, Hist, Commun, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HEFLEBOWER, PROF. RICHARD B(ROOKS), b. Milliken, Colo, Oct. 4, 03; m. 26; c. 4. ECONOMICS. A.B, California, 25, fel, 26-28, Ph.D, 29. Instr, Montezuma Sch, Calif, 25-26; instr. econ. & asst. agr. economist, Idaho, 28-29; asst. prof. bus. admin, Washington State, 29-34, assoc. prof. econ, 34-36, prof. econ. & dir. sch. bus. admin, 36-40, dean, 40-43; sr. economist, Brookings Inst, 46-49; PROF. ECON, NORTHWESTERN, 49- Vis. prof, Harvard, 62-63. Div. economist, price dept, Off. Price Admin, 43-44, econ. adv, 44-46. Am. Econ. Asn; Economet. Soc; Royal Econ. Soc. Industrial organization competition and price-making; public policy. Publ: Corporate mergers: economic analysis and policy, Quart. J. Econ, 63; co-auth, chap, In: Perspectives on antitrust, Princeton, 64 & chap, In: Monopolistic competition: studies in impact, Wiley, 67. Address: Dept. of Economics, Northwestern University, Evanston, Ill. 60201.

HEFLIN, PROF. WOODFORD A(GEE), b. Flora Vista, N.Mex, Dec. 21, 03; wid. INTERNATIONAL RELATIONS. A.B, New Mexico, 26; A.M, Stanford, 27; Rhodes Scholar, Oxford, 27-30, M.A, 33; Ph.D.(Eng), Chicago, 41. From instr. to prof. hist, Huron Col, 30-35; res. assoc, Chicago, 37-42; PROF. INT. RELS, AIR UNIV, 64-, CHIEF DOCUMENTARY RES. DIV, AEROSPACE STUDIES INST, 50- Teacher, Montgomery Center, Alabama, 48. Asst. ed, Dictionary Am. Eng, 37-42; co-ed, Multilingual Astronaut. Dictionary, 67. Except. Civilian Serv. award, Secy. Air Force, 56. U.S.A, 42-46. Mod. Lang. Asn. Military intelligence; American language and literature; problems of supply and service. Publ: United States Air Force dictionary; Second aerospace glossary; Factor of oil in the military problem. Address: 3400 Dartmouth Circle, Montgomery, Ala. 36111.

HEFNER, DR. LESLIE T(AYLOR), b. Rochester, N.Y, Apr. 23, 31; m. 51; c. 4. PSYCHOLOGY. B.A, Miami (Ohio), 52; M.A, Michigan, 53, U.S. Pub. Health Serv. fel, 52, 60-62, Ph.D.(psychol), 62. Asst. coordinator, training grant in psychol. of disability, DEPT. PSYCHOL, MICHIGAN, 64-67, LECTR. PSYCHOL, 64-, PSYCHOLOGIST, DEPT. PEDIAT, UNIV. HOSP, 67- Psychol. Asn; Rehab. Asn. Reliability of maternal reports on child development; sources and affects of maternal attitudes toward child-rearing; psychological diagnosis and rehabilitation of handicapped infants and children. Address: 1407 Morton Ave, Ann Arbor, Mich. 48104.

HEFNER, DR. ROBERT, b. Oxford, Ohio, Dec. 23, 30; m. 51; c. 4. PSYCHOLOGY. B.A, Miami (Ohio), 52; M.A, Michigan, 53, Nat. Sci. Found. fel, 54-56, Ph.D.(psychol), 58. Res. chemist, Fernald Plant, U.S. Atomic Energy Cmn, 52; asst. PSYCHOL, MICHIGAN, 54, lectr, 56, instr, 57, asst. prof, 60-65, ASSOC. PROF, 65-, RES. DIR, CENTER RES. ON CONFLICT RESOLUTION, 67- Psychologist, vision res. lab, 52-58. Psychol. Asn; Psychomet. Soc; Soc. Psychol. Study Social Issues (secy-treas, 64-70). Mathematical psychology, especially multidimensional scaling techniques; psychology of international relations; especially attitude scaling and development of other objective indices; color vision and color scaling. Address: 1407 Morton Ave, Ann Arbor, Mich. 48104.

HEGEN, DR. EDMUND EDUARD, b. Doernsdorf, Bohemia, Oct. 15, 20; U.S. citizen; m. 43; c. 2. GEOGRAPHY. B.E, B.A. & M.A, German Univ, Prague, 44; fel, Florida, 60, Ph.D.(geog), 62. Prin, pub. schs, Rapperzell, Bavaria, 46-51; dir. training camps, Aichach County, Bavaria, 51-52; teaching asst. GEOG, Florida, 58-59, teaching assoc, 59-60; instr, Tampa, 61-62; ASST. PROF, FLORIDA, 62-, summer writing grant, 67. Nat. Defense Ed. Act-Fulbright-Hays award, field res. Upper Amazon Basin, 64-65. Summers, guest lectr, Fla. State, 61 & Nat. Defense Ed. Act fel. Spanish, California, Los Angeles, 62. German Army, 40-43, 1st Lt. AAAS; Asn. Am. Geog; Am. Geog. Soc; Asn. Trop. Biol. American tropics, especially Amazon basin natural and cultural landscapes; ecosystems. Publ: Highways into the upper Amazon basin: pioneerlands in S. Colombia, Ecuador, and N. Peru, Univ. Florida, 66; Man and the tropical environment: problems of resource use and conservation, In: ATAS do Simpósio sôbre a Biota Amazônica, Rio de Janeiro, 68. Address: Dept. of Geography, Floyd Hall, University of Florida, Gainesville, Fla. 32601.

HEGGE, DR. THORLEIF G(RUNER), b. Oslo, Norway, Apr. 15, 89; nat; m. 17; c. 3. PSYCHOLOGY. Fel, Royal Norwegian Univ, 12-18, Ph.D.(psychol), 18. Assoc. prof. psychol. & univ. exam, Royal Norwegian Univ, 18-29, dir. & counsr, 24-26; dir. res. & ed, Wayne County Training Sch, Mich, 29-59; res. & consult. psychologist, 62-64; RETIRED. Royal Norwegian Univ. traveling fels, Copenhagen & Goettingen, 17-27; Am-Scandinavian Found. fel, 20; Rockefeller fel, Michigan, 27-29; lectr, Norwegian Col. Agr, 26; Michigan, 29-44; Wayne State, 36-60, co-dir, res. proj, U.S. Off. Ed, 56-59; lectr, Eastern Michigan, summer, 61-62. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; fel. Orthopsychiat. Asn; fel. Asn. Ment. Deficiency (v.pres, 48). Retardation; school adjustment. Publ: Analysis of logical memory, German J. Psychol; Special reading disability with particular reference to the mentally deficient, Proc. Am. Asn. Ment. Deficiency; Psychological aspects of mental retardation, Am. J. Ment. Deficiency. Address: 2041 Jackson Ave, Apt. 306, Ann Arbor, Mich. 48103.

HEGLIN, DR. HOWARD JAMES, b. Sioux City, Iowa, July 30, 24; m. 52; c. 3. HUMAN ENGINEERING, PSYCHOLOGY. B.A, Southern California, 48, M.A, 49; fel, Florida, 52-55, Ph.D.(exp. psychol), 55. Aviation psychologist, Human Resources Psychol. Lab, MacDill AFB, Fla, 51-52; res. psychologist, U.S. Air Force Personnel & Training Res. Center, Fla, 55-57; U.S. Air Force Cambridge Res. Center, Bedford, Mass, 57-58; sr. res. engr, human eng, Rocketdyne, Canoga Park, Calif, 58-60; prin. mem. syst. eng. staff, Radio Corp. Am, Van Nuys, Calif, 60-63; prin. scientist, human eng, Northrop Ventura, Newbury Park, Calif, 63-64; sr. scientist, life sci, Northrop Space Labs, Hawthorne, Calif, 64-65; Lockhead Aircraft, Burbank, Calif, 65-66; SR. MEM. TECH. STAFF ADV. PROGS, LITTON SYSTS, WOODLAND HILLS, 66- U.S.A, 43-46. Human Factors Soc; Inst. Aeronaut. & Astronaut. Man-machine system applications; operational requirements analysis; systems functions analysis. Publ: Measurement and evaluation of all weather interceptor pilot performance, U.S. Air Force, 57; Program management

data display system, Radio Corp. Am, 62; Problem solving set in different age groups, J. Geront, 7/56. Address: 17719 Merridy, Northridge, Calif. 91324.

HEIBY, ERNEST P(AUL), b. Ft. Recovery, Ohio, Nov. 30, 11; m. 50. ECONOMICS. B.S, Ohio State, 34, M.S, 38; Farm Found. fel, Chicago, 38-39. With Ohio Agr. Exten. Serv, 34-41; from civil serv. exam. to policy & procedures asst, U.S. Civil Serv. Cmn, 41-52, appeals exam, bd. appeals & rev, 52-66, chmn. performance rating bd. rev, 58-66; PERSONNEL RELS. SPECIALIST, HQ, DEFENSE SUPPLY AGENCY, 66- Econ. Asn; Soc. Personnel Admin; Agr. Econ. Asn. Personnel administration; general and agricultural economics. Publ: Trends in the general economic situation; Ohio farm prices, prices during the World War period compared with current prices; Farmer looks at industrial trends. Address: 5311 Neville Court, Alexandria, Va. 22310.

HEID, DR. WILLIAM H(ENRY), b. Akron, Ohio, July 30, 38; m. 60; c. 2. PSYCHOLOGY. B.A, Denison, 60; Danforth fels, Washington (Seattle), 62 & 64, M.S, 62, Ph.D.(conceptual behav), 64; Chicago, 64-65. ASST. PROF. PSYCHOL, HAMPTON INST, 65- AAAS; Soc. Res. Child Develop; Psychol. Asn. Intellectual and moral development. Address: Dept. of Psychology, Hampton Institute, Hampton, Va. 23368.

HEIDBREDER, PROF. EDNA, b. Quincy, Ill, May 1, 90. PSYCHOLOGY. A.B, Knox Col, 11, LL.D, 64; A.M, Wisconsin, 18; Ph.D.(psychol), Columbia, 24. Instr. PSYCHOL, Minnesota, 23-26, asst. prof, 26-28, assoc. prof, 28-34; prof, WELLESLEY COL, 45-55, EMER. PROF, 55- Mem, sem. staff, Radcliffe Col, 55-; Am. Psychol. Asn. rep, Nat. Res. Coun, 44-47. AAAS.(secy, sect. I, 43-45, v.pres, 47); fel. Psychol. Asn. Measures of personality; psychology of thinking; psychological theory. Publ: Seven psychologies; Toward a dynamic psychology of cognition, Psychol. Rev; Attainment of concepts, J. Gen. Psychol. Address: Dept. of Psychology, Wellesley College, Wellesley, Mass. 02181.

HEIDELL, DR. JAMES M, b. New York, N.Y, Sept. 20, 15; m. 52; c. 3. FINANCE. B.S, Harvard, 35, LL.B, 38; M.S, Columbia, 48; Ph.D.(econ), N.Y. Univ, 60. Controller, Ladenburg Thalmann & Co, 46-63; ASSOC. PROF, econ, Bridgeport, 63-66; FINANCE, FORDHAM, 66- U.S.A, 41-46, Capt. State and local governmental financing, particularly marketing aspects and liaison with traditional sources. Address: Fordham University School of Business, 302 Broadway, New York, N.Y. 10007.

HEIDEMAN, DR. BERT R(ONALD) M(ORTIMER), b. Calumet, Mich, Feb. 5, 09; m. 34; c. 2. POLITICAL SCIENCE, LAW. B.A, Michigan, 32, M.A, 42, Rackham fel, 50, Ph.D, 52, Jur.D, Detroit Col. Law, 37; California, 39; Stanford, 50-51. From instr. to prof. hist. & polit. sci, Detroit Inst. Tech, 34-42, instr. European hist, Michigan, 47-49, lectr. Am. constitutional hist, exten. serv, 48-50, from assoc. prof. to prof. Am. govt. & hist, 49-53; Mich. Col. Min. & Tech, 53-57; private practice law, 57- Fulbright lectr, Univs. Turku & Abo, Finland, 53-54. Consult, U.S. Dept. State, 55; Off. Strategic Servs. Mem. cmt. ed. & pub. info. & del, Mich. Constitutional Convention, 61-62. U.S.A, 43-45. Polit. Sci. Asn; Hist. Asn. Finland and northern countries; American institutions and constitutional law; international relations. Address: 204 Montezuma St, Hancock, Mich. 49930.

HEIDEMAN, DR. M(ILO) LAWRENCE, JR, Endocrinol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HEIDEN, DR. EDWARD JOSEPH, b. St. Louis, Mo, Sept. 12, 38; m. 64; c. 2. ECONOMICS. A.B, St. Louis, 60; Woodrow Wilson fel, Harvard, 60-61; Nat. Sci. Found. fel, Washington (St. Louis), summer, 63, Ph.D.(econ), 67. Teaching asst. ECON, Washington (St. Louis), 61-64; ASST. PROF. WISCONSIN, 64- Econ. adv, Fed. Trade Cmn, 68-69. Econ. Asn. Publ: Co-auth, Recursive programming and public policy, Conf. Proc. Govt. Printing Off, 66; auth, Some economic problems of international space telecommunications, sci. & tech. info. div, NASA, 67; Econometric analysis of the demand for international telecommunications; Rev. Econ. & Statist, 68. Address: 4801 Sheboygan Ave, Number 315, Madison, Wis. 53705.

HEIDENHEIMER, PROF. ARNOLD J(OSEPH), b. Wuerzburg, Germany, Nov. 23, 29; nat; m. 59; c. 2. POLITICAL SCIENCE. A.B, Cornell, 50; A.M, American Univ, 52; Ph.D.(polit. sci), London Sch. Econ, 57. Asst. POLIT. SCI, London Sch. Econ, 56-57; instr, Wayne State, 57-59, asst. prof, 59-61; assoc. prof, Florida, 61-66, PROF, 66-67; WASHINGTON (ST. LOUIS), 67- Fulbright lectr, Free Univ. Berlin, 62; Rockefeller Found. res. grant, 62-63; Nat. Sci. Found. faculty fel, 65-66. Consult, President's Cmn. Campaign Costs, 61-62. U.S.A, 52-54. Polit. Sci. Asn; Soc. Psychol. Study Social Issues. Comparative government and politics, especially Western Europe and the Commonwealth; German politics; parties and election campaigns; international attitude patterns. Publ: Adenauer and the CDU; Governments of Germany; co-auth, Business associations and the financing of political parties, Nijhoff, 68. Address: Dept. of Political Science, Washington University, St. Louis, Mo. 63130.

HEIDENREICH, PROF. CHARLES W(ALTER), b. St. Paul, Minn, Oct. 21, 19. POLITICAL SCIENCE, LAW. B.S.L, Minnesota, 41, LL.B, 43, LL.M, 44. Instr. LAW & POLIT. SCI, COL. ST. THOMAS, 45-47, asst. prof, 47-52, assoc. prof, 52-60, PROF, 60-, CHMN. DEPT. POLIT. SCI, 57-, acting chmn, 52-53. Vis. lectr, Minnesota, 62-63. Law of taxation and contracts; labor law. Publ: Scope of judicial review of decisions of the United States tax court, Minn. Law Rev; Jurisdictional disputes and the labor management relations act of 1947, Marquette Law Rev. Address: Dept. of Political Science, College of St. Thomas, St. Paul, Minn. 55101.

HEIDER, PROF. FRITZ, b. Vienna, Austria, Feb. 18, 96; nat; m. 30; c. 3. PSYCHOLOGY. Ph.D, Graz, 20. Asst. prof. PSYCHOL, Smith Col, 30-45, assoc. prof, 45-47; prof, KANSAS, 47-62, univ. distinguished prof, 62-66, EMER. PROF, 66-, RES. ASSOC, 66- Prin. investr. exp. res. grant, Nat. Inst. Ment. Health, 61-, conceptual res. grant, 67- Lewin Mem. award, 59. Psychol. Asn.(distinguished scientist award, 65). Perception; interpersonal relations. Publ: Psychology of interpersonal relations. Address: Dept. of Psychology, University of Kansas, Lawrence, Kans. 66044.

HEIDER, DR. GRACE M(OORE), b. Jacksonville, Fla, Nov. 30, 03; m. 30; c. 3. PSYCHOLOGY. A.B, Mt. Holyoke Col, 26; M.A, Smith Col, 27; Ph.D. (psychol), Kansas, 59. Res. assoc. psychol, Clarke Sch. for Deaf, 28-47; acting asst. prof, Kansas, 47-49; assoc. psychologist, Menninger Found, 49-60; Nat. Inst. Ment. Health res. fel. PSYCHOL, Oslo, 60-61; res. assoc, KANSAS, 61-65, ASSOC. PROF, 65- Instr, Mt. Holyoke Col, 30-31 & 44-46; co-prin. investr, Nat. Inst. Ment. Health res. grant, 61- Psychol. Asn. Child development; psychology of interpersonal relations; psychology of the deaf. Publ: Co-auth, Prediction & outcome: a study in child development, Basic Books, 59; Studies in the psychology of the deaf, Psychol. Monogr, 40-41; auth, Vulnerability in infants & young children, Genetic Psychol. Monogr, 73: 1-216, 66. Address: Dept. of Psychology, University of Kansas, Lawrence, Kans. 66044.

HEIDINGSFIELD, PROF. MYRON S(AMUEL), b. New York, N.Y. Feb. 3, 14; m. 46; c. 1. MARKETING. B.S, City Col. New York, 37; A.M, N.Y. Univ, 39, Ph.D.(econ. statist. & sociol), 43. With Milbank Mem. Found, U.S. Pub. Health Serv, 38; res. statistician, Am. Statist. Asn, Wash, D.C. 39-40; lectr, statist, Columbia, 40-41; asst. prof. econ. & statist, Col. William & Mary, 42-43; lectr. statist, eng, sci. & mgt. war training, Pennsylvania, 43-44; asst. prof. mkt, Temple, 44-47, assoc. prof, 47-49, prof. & head dept, 49-58; mgr. mkt. res, Radio Corp. Am, N.J, 58-60; prof. mkt. & assoc. dean sch. commerce & finance, Villanova, 60-63; FOOD FAIR STORES FOUND. PROF. MKT. & DIR. INT. MKT. RESOURCE CENTER. COL. BUS. ADMIN. FLA, 63- Chief statistician, Qm. Depot, Pa. 43-44; exec. v.pres. & partner, A.B. Blankenship & Assocs, Inc, 48-50. Res. consult. Fed. Works Agency, N.Y, 40-41; Reuben H. Donnelley Corp; Dayton Rubber Co; Clear Channel Broadcasters Asn; Brit. Export Trade Orgn; Radio Corp. Am. 60-; mkt. consult, Fla. Supermkt. Asn, 66-; W.E. Walker Stores, Inc, 67- Chmn. eval. cmt, mkt. & mgt. curricula, Phila. Col. Textiles & Sci, 67: mem. regional export expansion coun, U.S. Dept. Commerce, 67. Fel. AAAS; Mkt. Asn; Econ. Asn; Statist. Asn. Consumer motivation; relationship of social sciences marketing knowledge; relationship of the behavioral sciences coupled with the uses of quantitative methods for management decision making. Publ: Auth, Marketing, Barnes & Noble, 53, 57 & 59, 2nd ed, 64 & 67, co-auth, 3rd ed, 68; co-auth, Marketing and business research, Holt, 62; auth, Changing patterns in marketing a study in strategy, Allyn & Bacon, 68. Address: Dept. of Marketing, College of Business Administration, University of Florida, Gainesville, Fla. 32601.

HEIDORN, DR. ROBERT DON, b. Chicago, Ill, Feb. 27, 38; m. 61; c. 1. POLITICAL SCIENCE. B.A, Lawrence, 59; M.A, Illinois, 60, Ph.D.(polit. sci), 63. Instr. POLIT. SCI, Maine, 63-64, asst. prof, 64-68; ASSOC. PROF, WIS. STATE, WHITEWATER, 68- Polit. Sci. Asn; Acad. Polit. Sci. State and local politics. Address: Dept. of Political Science, Wisconsin State University, Whitewater, Wis. 53190.

HEIFNER, DR. RICHARD G(LENN), b. Greenfield, Iowa, Jan. 9, 34; m. 60; c. 2. AGRICULTURAL ECONOMICS. B.S, Iowa State, 56, Ph.D.(agr. econ), 63. Res. assoc. AGR. ECON. Iowa State, 61-62; ASST. PROF, MICH. STATE, 63- U.S.A, 56-58, Res, 58-62, Capt. Econ. Asn; Agr. Econ. Asn; Statist. Asn; Econmet. Soc. Agricultural marketing; econometrics; operations research. Publ: Determining efficient grain inventories: an application of quadratic programming, J. Farm Econ, 8/66. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

HEIGES, PRES. RALPH E(BY), b. Shippensburg, Pa, Apr. 20, 05; m; c. 1. POLITICAL SCIENCE. A.B, Ursinus Col, 25, LL. D, 60; A.M. Columbia, 28. Ph.D, 33. Instr. govt, Findlay Col, 29-34; soc. studies, Pa. State Teachers Col, Clarion, 34-36; Indiana State Teachers Col.(Pa), 36-42, dean instr, 42-55; SHIPPENSBURG STATE COL, 55-56, PRES, 56- Polit. Sci. Asn. Sheriff in the rural counties of Ohio; history of Indiana State Teachers College. Address: Shippensburg State College, Shippensburg, Pa. 17257.

HEIGES, DR. RICHARD FICKES, b. Findlay, Ohio, Jan. 22, 31; m. 55; c. 4. POLITICAL SCIENCE. B.A, Indiana Univ. Pa, 53; M.A, Ohio State, 55, Ph.D.(polit. sci), 59. Asst. polit. sci, Ohio State, 56, 58-60; teacher, high sch, Ohio, 56-58; res. assoc, Ohio Legis. Serv. Cmn, 60-61; assoc. prof. POLIT. SCI, INDIANA UNIV. PA, 61-64, PROF, 64-, CHMN. DEPT. 66- Qm.C, U.S.A, 53-55, Res, 55-61, 1st Lt. Polit. Sci. Asn; Nat. Coun. Soc. Studies. State and local government. Publ: Co-auth, Organization and financing of general health districts, 60 & Migrant farm workers in Ohio, 60, Ohio Legis. Serv. Cmn; auth, State labor legislation for public utilities disputes, Pub. Utilities Fortnightly, 4/58. Address: Dept. of Political Science, Indiana University of Pennsylvania, Indiana, Pa. 15701.

HEIKEN, DR. MURRAY, b. New York, N.Y, Dec. 10, 24; m. 46; c. 2. CLINICAL PSYCHOLOGY. B.S.S, City Col. New York, 48; M.A, Miami (Fla), 50; Ph.D.(psychol), Purdue, 53. Clin. psychologist, Jackson Mem. Hosp, 53-57; Fla. Alcoholic Rehab. Prog, Miami Clin, 56-59; private practice, 57-; consult, Jewish Family & Children's Serv, 58- U.S.A, 43-46. Psychol. Asn; Group Psychother. Asn. Perception; social psychology; psychotherapy. Address: 2695 Le Jeune Rd, Coral Gables, Fla. 33134.

HEIKOFF, PROF. JOSEPH M(EYER), b. Brooklyn, N.Y, Nov. 18, 17; m. 48; c. 2. PUBLIC ADMINISTRATION, URBAN PLANNING. B.S, City Col. New York, 38; B.L.A, Harvard, 43, Littauer fel, 56-57, M.P.A, 57; Fulbright res. grant, Madrid, Spain, 55-56; univ. fel, Chicago, 52-53, M.A, 53, Ph.D.(planning), 59. Vis. prof. URBAN PLANNING, Puerto Rico, 49-51; exec. dir, City Planning Cmn, Syracuse, N.Y, 57-59; PROF, ILLINOIS, URBANA, 59- U.S.A.A.F, 42-46, Lt. Polit. Sci. Asn; Soc. Pub. Admin. Interaction of politicians and bureaucrats, especially planners in governmental decision making. Publ: Planning and budgeting in municipal management, Int. City Mgrs. Asn, 65; La Cambiante Ambientación Politica de la Planificación Urbanistica en EE.UU, Revista de Administratión Publica, Madrid, 4/66; Justice, politics and urban planning, Urban Affairs Quart, 9/67. Address: Dept. of Community Planning, University of Illinois, 1202 W. California Ave, Urbana, Ill. 61801.

HEILBRONNER, DR. HANS, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HEILBRUN, PROF. ALFRED B, JR, b. Los Angeles, Calif, Apr. 26, 24; m. 50; c. 3. PSYCHOLOGY. B.A, Oberlin Col, 49, M.A, 50; U.S. Pub.

Health Serv. fel, 52-54; Ph.D, Iowa, 54. Trainee clin. psychol, Vet. Admin. Hosp, American Lake, Wash, 54-55, staff psychologist, Battle Creek, Mich, 55-56; asst. prof. psychol, Iowa, 56-60, assoc. prof, 60-66; PROF. PSYCHOL. & DIR. CLIN. TRAINING & PSYCHOL. CENTER, EMORY, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.M.C, 43-46, Lt. Psychol. Asn. Diagnosis and treatment of psychopathology; psychological effects of cerebral brain injury. Publ: Psychological test performance as a function of lateral localization of cerebral lesion. Address: Dept. of Psychology, Emory University, Atlanta, Ga. 30322.

HEILBRUN, JAMES, Econ, see 10th ed, Soc. & Behav. Vols.

HEILIZER, DR. FRED(ERICK) H(OWARD), b. Brooklyn, N.Y, June 29, 30; m. 54; c. 4. PSYCHOLOGY. B.A. Syracuse, 50, M.A, 52; Ph.D.(psychol), Rochester, 58. Res. psychologist, Vet. Admin. Hosp, Northampton, Mass, 58-61, Brockton, 61-67; ASSOC. PROF. PSYCHOL, DePAUL, 67- AAAS; Psychol. Asn. Hypnosis; chemotherapy; conflict and anxiety; risk taking; human motivation. Publ: Critical review of some published experiments with chlorpromazine in schizophrenic, neurotic and normal humans, J. Chronic Diseases, 60; Conjunctive and disjunctive conflict: a theory of need conflict, J. Abnorm. & Soc. Psychol, 64; Conflict models, alcohol and drinking patterns, J. Psychol, 64. Address: Dept. of Psychology, DePaul University, 25 E. Jackson Blvd, Chicago, Ill. 60604.

HEILMAN, DR. F(RANK) EUGENE, b. North Judson, Ind, July 24, 08; m. 48; c. 2. SOCIOLOGY. A.B, DePauw, 29; M.S, Indiana, 35; M.A, Wisconsin, 50; Ph.D.(sociol), Nebraska, 54. Instr. SOCIOL, Whitman Col, 45-46; exten. div, Wisconsin, 47-48; Nebraska, 48-50; from asst. prof. to assoc. prof, Stephen F. Austin State Col, 51-61; ASSOC. PROF, NORTHEAST LA. STATE COL, 61- U.S.A, 43-45. Sociol. Asn. Criminology; social psychology; community. Address: 718 Guy Ave, Monroe, La. 71201.

HEILPERIN, DR. MICHAEL A(NGELO), b. Warsaw, Poland, May 6, 09; nat; m; c. 1. ECONOMICS. London, 29-30; Lic. ès Sci. Commerciales, Geneva, 29, Dr. Econ. Sci, 31; Cambridge, 31. Lectr. currency & finance, Geneva, 32-33, asst. prof. int. econ. rels, grad. inst. int. studies, 35-38; fel, Rockefeller Found, 33-35; lectr. econ, California, 39; prof, Acad. Int. Law, The Hague, 39; lectr, Inst. Int. Ed, 39-40; Bryn Mawr Col, 40-41; vis. asst. prof, Hamilton Col, 41-42, assoc. prof, 42-45; econ. adv, Bristol-Myers Co, 43-53; prof. ECON, GRAD. INST. INT. STUDIES, GENEVA, 53-64, HON. PROF, 64-; ECON. CORRESPONDENT WEST. EUROPE, FORTUNE MAG. & TIME, INC, 53- Lectr, Can. Inst. Int. Affairs, 39, 44, 49; econ. adv, U.S. Coun, Int. Chamber Commerce; 48-53; assoc. ed, Fortune Mag, 59-64, mem. bd. ed, 64- Am. Econ. Asn; fel. Royal Econ. Soc; hon. mem. Royal Belgian Soc. Polit. Econ; Int. Inst. Pub. Finance. International economic relations; money and finance; economic systems. Publ: Economic policy and democracy; The trade of nations; Studies in economic nationalism. Address: 11 rue Michel Channet, Geneva, Switz.

HEIM, DR. PEGGY, b. Sunbury, Pa, Jan. 25, 24. ECONOMICS. A.B, Duke, 45; M.A, Ohio State, 46; Ph.D.(econ). Columbia, 53. Instr. econ, Texas, 46-48; San Francisco State Col, 50-54, asst. prof, 54-59, assoc. prof, 59-61; STAFF ECONOMIST. AM. ASN. UNIV. PROFS, 59-; DIR. COOP. INSTNL. PLANNING CENTER. FURMAN, 68- Econ. Asn. Institutional and state long-range planning in higher education; analyses of academic compensations; financing colleges and universities; public finance; pricing policies. Publ: Merchandise management accounting, Quart. J. Econ, 11/63; co-auth, On the financial prospects for higher education, Am. Asn. Univ. Prof. Bull, summer 68; auth, Growing tensions in academic administration, N. Cent. Asn. Quart. winter 68. Address: Apt. 77, Williamsburg Manor, Edwards Rd, Greenville, S.C. 29607.

HEIM, DR. RICHARD B(ARRON), b. Mayer, Ariz, May 1, 24; m. 51; c. 2. PSYCHOLOGY. B.A, Stanford, 49, M.A, 51; Ph.D, Claremont Col, 57. Clin. psychologist, Calif. Inst. Men, 57-64; STAFF PSYCHOLOGIST, SOUTH. CONSERV. CENTER, 64- Instr, exten. div, California, Riverside, 63-66; Chaffey Col, 66- Clin. psychologist, 57- Res. consult, Crofton House Proj, San Diego State Col. Found, 65-67. Psychol. Asn. Clinical psychology; program development and research in correctional institutions; staff selection and training. Address: 205 Creighton Circle, Claremont, Calif. 91711.

HEIMAN, DR. NANETTE M(ARIAN), b. San Francisco, Calif. Mar. 7, 26. PSYCHOLOGY. A.B, California, 47, M.A, 50, U.S. Pub. Health Serv. fel, 50-53, Ph.D, 55. Chief psychologist, Kaiser Found. Hosp, San Francisco, 53-57; psychologist, PSYCHIAT. CLIN, MT. ZION HOSP, 56-61, CHIEF PSYCHOLOGIST, 61- Psychol. Asn. Clinical psychology; child psychology; projective tests. Publ: Oedipus at Colonus: study in old age and death, Am. Imago; co-auth, An experiment in clinical integration, J. Hillside Hosp. and Selected papers of Else Frenkel-Brunswik, Psychol. Issues, (in press). Address: 1600 Divisadero St, San Francisco, Calif. 94115.

HEIMANN, PROF. EDUARD, Econ, see 10th ed, Soc. & Behav. Vols.

HEIMANN, PROF. ROBERT A, b. Evansville, Ind, Feb. 9, 18; m. 41; c. 3. PSYCHOLOGY. B.S, Wis. State Col, 41; M.S, Wisconsin, 49, fel, 50-51, Ph.D.(ed, guid. & counseling), 52. From assoc. prof. to prof. ed. & counsr. trainer, ARIZONA STATE, 52-59, PROF. COUNSELING & ED. PSYCHOL, 59-, dir. student counseling serv, 66-67. Counseling psychologist, Vet. Admin, Phoenix, 54-55. U.S.A.A.F, 42-45. Fel. AAAS; Personnel & Guid. Asn; Psychol. Asn; Ed. Res. Asn. Supervision in training of counseling psychologist; process of counseling. Publ: Co-auth, Modification of originality responses, 65 & Effectiveness of sensitivity training on perception of non-verbal communication, 66, J. Counseling Psychol; co-auth, Vocational maturity of junior high school girls, Voc. Guid. Quart, 67. Address: College of Education, Arizona State University, Tempe, Ariz. 85281.

HEIMANN, DR. ROBERT K, b. New York, N.Y, Sept. 22, 18; m. 50; c. 2. SOCIOLOGY. A.B, Princeton, 48; M.A, N.Y. Univ, 49, Ph.D, 53. Exec. ed, Forbes Mag. Bus. & Finance, 49-53; asst. to pres, AM. TOBACCO CO, 54-66. EXEC. V.PRES, 66- C.Eng, 42-46, Capt. Sociol. Asn. Opinion research; economic statistics. Publ: Nation's heritage; Dear stockholder; Tobacco and Americans. Address: American Tobacco Co, 245 Park Ave, New York, N.Y. 10017.

HEIMBACH, DR. ERNEST E(ARL), Econ, see 10th ed, Soc. & Behav. Vols, deceased 68.

HEIMBERGER, DR. FREDERIC, b. Columbus, Ohio, May 21, 99; m. 24. POLITICAL SCIENCE. A.B, Ohio State, 23, A.M, 29, Ph.D, 31. Asst. polit. sci, Ohio State, 29-31; asst. prof. soc. sci, Ball State Teachers Col, 31-35, assoc. prof, 35-36; instr. POLIT. SCI, OHIO STATE, 36-42, asst. prof, 42-45, assoc. prof, 45-49, prof, 49-64, acting secy, col. arts & sci, 45-46, asst. dean, 46-48, acting dean, 48-49, dean, 49-51, v.pres, univ, 51-64, pres, res. found, 57-62, EMER. PROF. & EMER. DEAN FACULTIES, 64- U.S.A, 17-19. Political theory and comparative government. Publ: Co-auth, The contemporary university: U.S.A, Daedalus, 64 & Houghton, 67; auth, Faculty control of university teaching, 9/62 and The grass roots of campus freedom, 7/65, Saturday Rev. Address: 4900 Olentangy Blvd, Columbus, Ohio 43214.

HEIMBURGER, PROF. R(OBERT) F(RANCIS), Neurosurg, see 11th ed, Phys. & Biol. Vols.

HEIMER, DR. WALTER I(RWIN), b. New York, N.Y, June 24, 27; m. 56; c. 2. PSYCHOLOGY. B.A, Allegheny Col, 49; M.A, New Sch. Soc. Res, 53, Ph.D. (psychol), 62. Res. asst. psychol, New Sch. Soc. Res, 54-57; res. assoc, Swarthmore Col, 57-58; res. psychologist, U.S. Naval Training Device Center, N.Y, 58-59; instr. PSYCHOL, Fairleigh Dickinson, 59-62; asst. prof, Hofstra, 63-67; ASSOC. PROF, C.W. POST COL, LONG ISLAND, 67- Prof, U.S. Naval Training Device Center, N.Y, summers 63 & 64; prin. co-dir, Voc. Rehab. Admin. res. grant, 66- Med.C, U.S.N, 45-47. AAAS; Psychol. Asn. Human cognitive processes, including perception, learning, memory and thinking; time and visual perception; perceptual and verbal learning; concept formation and the interaction between cognitive and physiological processes. Publ: Co-auth, Further evidence of one-trial learning, Am. J. Psychol. 3/59, Perceptual conditions of association, Vol. 74, No. 3, Psychol. Monogr. & Practice effects, knowlege of results and transfer in pitch discrimination, Tech. Report, IH-52, U.S. Naval Training Device Center, 66. Address: Dept. of Psychology, C.W. Post College, Long Island University, Greenvale, N.Y. 11548.

HEIMLICH, DR. FREDERICK J, b. Lafayette, Ind, Sept. 29, 21; m. 47; c. 4. PSYCHOLOGY. B.S, Purdue, 48, M.S, 50, Ph.D.(psychol), 52. Asst. chief clin. psychol. serv, Vet. Admin. Hosp, Marion, Ind, 52-54; dir. psychol. dept, Beatty Mem. Hosp, Westville, Ind, 54-57; chief clin. psychologist, Orange County Guid. Clin, Fla, 57-61; CLIN. PSYCHOLOGIST, 61- U.S.C.G, 42-46. Psychol. Asn. Clinical psychology; personality theory; psychotherapy. Address: 618 E. South St, Orlando, Fla. 32801.

HEIMLICH, DR. JUDITH ANN, b. Columbus, Ohio, June 5, 39. POLITICAL SCIENCE. A.B, Smith Col, 61; M.A, Columbia, 63, fel, 65-66, Ph.D.(govt), 67. Reporter, Housing & Urban Affairs Daily, Wash, D.C, 61-62; press asst, Sen. George A. Smathers, 62; policy planning res. asst, U.S. Small Bus. Admin, 63-65; res. asst. GOVT. STUDIES, BROOKINGS INST, 66-68, RES. ASSOC, 68- Polit. Sci. Asn. American government and politics, particularly public administration, social and economic policy, electoral and legislative processes, and decision making. Publ: The urban department President Kennedy failed to get, In: Congress and urban problems, Brookings Inst, (in press). Address: Brookings Institution, 1775 Massachusetts Ave. N.W, Washington, D.C. 20036.

HEIMONEN, PROF. HENRY S(AMUEL), b. Marquette, Mich, Oct. 17, 12; m. 46; c. 3. GEOGRAPHY, GEOLOGY. A.B, North. Mich. Col, 35; Ph.D, Wisconsin, 41. Instr. geog, exten. div, Wisconsin, 40-41; indust. analyst, minerals div, War Prod. Bd, D.C, 42; asst. prof. geog. & geol, Mich. Col. Min. & Tech, 46-47; PROF. GEOG. & EARTH SCI, NORTHERN MICHIGAN, 47- Ford Found. Faculty fel, Michigan, 52-53. U.S.N, 42-46, Lt. Comdr. Coun. Geog. Ed. Economic geography and geology; improvement of teaching of the earth sciences in the elementary schools. Publ: Ed, Teachers guide for elementary school earth science; auth, Agricultural trends in the upper peninsula of Michigan, Mich. Hist. Mag; Low grade iron ores in the Lake Superior region, J. Geog. Address: Dept. of Geography, Northern Michigan University, Marquette, Mich. 49855.

HEIMSATH, DR. CHARLES H(ERMAN), IV, Int. Rels, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HEIMSTRA, DR. NORMAN W(ESLEY), b. Mitchell, S.Dak, Oct. 14, 30; m. 55; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, South Dakota, 55, M.A, 56; U.S. Pub. Health Serv. fel, Rochester, 59-60, Ph.D, 60. Res. assoc. PSYCHOL, HumRRO, George Washington, 57-59, res. scientist, 60-61; U.S. Pub. Health Serv. fel, SOUTH DAKOTA, 61-66, PROF. PSYCHOL, 67- Consult, HumRRO, 59- Mem. cmt. driving simulation, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 66. U.S.N, 48-53. Psychol. Asn. Radiation effects on animal behavior; social influence on the response to drugs; psychopharmacology; human factors psychology; accident prevention. Publ: Learning performance of monkeys irradiated with x-ray irradiation, J. Psychol; Effects of early experience on response to x-irradiation, Can. J. Psychol; Effects of chlorpromazine on dominance and fighting behavior, Behaviour. Address: Dept. of Psychology, University of South Dakota, Vermillion, S.Dak. 57069.

HEIN, DR. ALAN V, b. New York, N.Y, Nov. 12, 30; m. 53; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, N.Y. Univ, 52; A.M, Columbia, 56; Nat. Insts. Health fel, Brandeis, 59-60, Ph.D, 60. Res. assoc. PSYCHOL, Brandeis, 60-62, asst. prof, 62-63; MASS. INST. TECH, 63-67, ASSOC. PROF, 67- U.S.A, 52-54, Sgt. AAAS; Psychol. Asn; Animal Behav. Soc. Perceptual and perceptual-motor development; learning and motor coordination; comparative psychology; ethology; evolution of behavior. Publ: Co-auth, On the modifiability of form perception, Mass. Inst. Tech. Press, 67; auth, A neural model for labile sensorimotor coordinations, In: Biological prototypes and synthetic systems; co-auth, Movement-produced stimulation in the development of visually guided behavior, J. Comp. & Physiol. Psychol, 63. Address: E10-206, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

HEIN, PROF. CLARENCE JACOB, b. Glencoe, Minn, Aug. 26, 18; m. 42; c. 4. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Minnesota, 41,

M.A, 52, Ph.D.(polit. sci), 56. Res. assoc. & instr. polit. sci, Kansas, 52-56, asst. prof, 56-58; vis. prof, West Virginia, 58-59; res. economist, U.S. Dept. Agr, 59-65, res. polit. scientist, 65-68; PROF. PUB. ADMIN, MISSOURI, KANSAS CITY, 68- U.S.A.A.F, 41-46, Capt. Polit. Sci. Asn; Soc. Pub. Admin. Political parties and voting behavior; state, local and metropolitan government. Publ: State administrative supervision of local government functions in Kansas, Univ. Kansas Govt. Res, 55; Rural local government in sparsely populated areas, J. Farm Econ, 11/60; co-auth, Administrative control of municipal incorporation, West. Polit. Quart, 12/66. Address: 9616 Manor Rd, Leawood, Kans. 66206.

HEIN, DR. JOHN, b. Freiburg, Germany, Mar. 1, 21; U.S. citizen; m. 57; c. 2. ECONOMICS. B.S. & M.S, Columbia, 49, Ph.D.(econ), 63. Res. asst, Fed. Reserve Bank New York, 50-53, economist, 53-61, chief for. res. div, 62-64, spec. asst, 64-67; SR. ECONOMIST, NAT. INDUST. CONF. BD, 67- Vis. scholar, Econ. Res. Inst, Dublin, Ireland, 66. U.S.A, 43-45. Econ. Asn; Finance Asn. International trade and finance; foreign banking systems; foreign money and capital markets. Publ: Monetary policy and external convertibility: the German experience, 1959-61, Economia Internazionale, 8/64; Institutional aspects of commercial and central banking in Ireland, Econ. Res. Inst, Dublin, 1/67; co-auth,The competitive position of U.S. experts, Nat. Indust. Conf. Bd, 6/68. Address: National Industrial Conference Board, 845 Third Ave, New York, N.Y. 10022.

HEINBERG, DR. JOHN DORSEY, b. Columbia, Mo, Oct. 4, 37; m. 64; c. 1. ECONOMICS. B.A, Yale, 59; M.A, Missouri, 63; Resources for the Future, Inc. fel, Wisconsin, 65-66, Ph.D.(econ), 67. Lectr. ECON. & PUB. AFFAIRS, PRINCETON, 66-67, ASST. PROF, 67- Consult, Off. Secy, U.S. Dept. Housing & Urban Develop, 67. U.S.N, 59-62, Res, 62-, Lt. Econ. Asn. Residential rehabilitation in urban renewal; dynamic analysis of economics of the central city, including description of economic and fiscal disparities in metropolitan areas; economic policies of central city governments. Address: Woodrow Wilson School, Princeton University, Princeton, N.J. 08540.

HEINBERG, DR. PAUL (JULIUS), b. Birmingham, Ala, Aug. 25, 24; m. 45; c. 1. SPEECH, COMMUNICATIONS. B.S, Columbia, 49, M.A, 50; Ph.D. (exp. phonetics), Iowa, 56. Instr. speech & drama, Texas Woman's Univ, 50-52; asst. prof. speech, Okla. State, 52-57; speech & drama, Iowa, 57-65; ASSOC. PROF. SPEECH & DIR. SPEECH COMMUN. CENTER, HAWAII, 65- Iowa Res. Found. res. grants, 60-64; U.S. Pub. Health Serv. res. grants, 61-62; Dept. Health, Ed. & Welfare mem, Conf. Role of Theory of New Media Res. & Appln, 62; Northwest. Bell Telephone Co. res. grant, 63-65. U.S.A.F, 41-47, 1st Lt. Speech Asn. Am; Acoustical Soc. Am. Methodology of scientific research in oral communication; audio-visual programmed instruction in speech, languages and verbal skills. Publ: Voice training, Ronald, 64; Factors related to an individual's ability to perceive implications from dialogues, 11/61 & Relationships of speech content and delivery to general effectiveness, 6/63, Speech Monogr. Address: Dept. of Speech, University of Hawaii, Honolulu, Hawaii 96822.

HEINDEL, DEAN RICHARD H(EATHCOTE), b. Hanover, Pa, Aug. 24, 12; m. 34; c. 3. GOVERNMENT. A.B, Harvard, 33; A.M, Pennsylvania, 34, Soc. Sci. Res. Coun. fel, 36-37, Penfield fel, 37-38, Ph.D, 38; hon. Litt.D, Wagner Col, 57. Instr. hist, Pennsylvania, 34-38, from instr. to asst. prof. mod. European hist, 38-49; consult, U.S. Nat. Cmn, UNESCO, 49-50, dep. dir. staff, 50-54, chief staff, U.S. del. to gen. conf, 51; prof. govt. & hist, Buffalo, 54-58, dean col. arts & sci, 54-56, v.chancellor, 56-58; pres, Wagner Col, 58-61; Pratt Inst, 61-67; PROF. INT. RELS. & DEAN FACULTY, CAPITOL CAMPUS, PA. STATE, 67- Dir, war document. serv, Phila, 39-42; field dir, For. Asn-World Affairs Center, 39-40; fel, Library Cong, 40-41, hon. fel, 41-54; dir, Am. Library, London, 43-45; spec. asst, off. int. info. & cultural affairs, U.S. Dept. State, 45-46, acting chief, div. libraries & insts, 46, chief, 46-47, consult, 55-; regional dir, Surv. Fed. Arch, 36; dir, Phila. Surv. Hist. Manuscripts, 36; secy. cmt. Am. culture, Am. Coun. Learned Socs, 40-, overseas cor. secy, 43-45; secy. cmt. soc. data, Soc. Sci. Res. Coun, 41, staff assoc, pub. library inquiry, 47, exec. assoc, 49-50; exec. secy. nat. cmt. conserv. cultural resources, Nat. Resources Planning Bd, 51, consult, sci. cmt, 42; prfnl. staff assoc. for. rels. cmt, U.S. Senate, 47-49. Mem, exec. cmt, UNESCO, 58-62. Polit. Sci. Asn; Hist. Asn. International relations; public and educational administration. Address: Capitol Campus, Pennsylvania State University, Middletown, Pa. 17057.

HEINE, IRWIN MILLARD, b. Philadelphia, Pa, Nov. 8, 08; m. 46. ECONOMICS, STATISTICS. B.S, Pennsylvania, 30, M.B.A, 32; American Univ, 38; Penfield traveling scholar from Pennsylvania, Eng, 39. Economist in charge West. Hemisphere shipping probs, U.S. Maritime Cmn, 39-42, CHIEF statist. & econ, functions, 46-50, div. ship statist, 50-53, statist. & spec. studies off, 53-60; off. statist, MARITIME ADMIN, 60-66, INT. ACTIVITIES & SPEC. STUDIES, 66- Asst. dir. statist. & res, War Shipping Admin, 42-43, 46-47. Tech. adv, Inter-Am. Maritime Conf, D.C, 40; secy, Inter-Agency Cmt. Export Transportation, 46-47; chmn, Inter-Dept. Statist. Cmt. Operating Differential Subsidies, 52-53; west. hemisphere tech. cmt, planning bd. ocean shipping, NATO, 56-, U.S. Adv, planning bd. ocean shipping, Wash, D.C, 66, London, 67. U.S.N.R, 43-46, Lt. Econ. Asn; Statist. Asn. International economics; international and domestic ocean shipping economics. Publ: Contribution of federal aid programs to the oceanborne foreign trade of the U.S, 64, co-auth, Assistance to maritime industries in western hemisphere nations, 66 and auth, The Soviet merchant marine, 67, U.S. Govt. Printing Off. Address: 4000 Massachusetts Ave, N.W, Washington, D.C. 20016.

HEINE, PROF. RALPH W(ILLIAM), b. Elgin, Ill, Dec. 31, 14; m. 42; c. 4. PSYCHOLOGY. B.S, Northwestern, 38, M.S, 39; Ph.D.(psychol), Chicago, 50; Wash. Sch. Psychiat, 52. Clin. psychologist, Cent. Intel. Agency, Wash, D.C, 46-47; Vet. Admin, 47-48, Chicago, Ill, 48-56, chief clin. psychologist, ment. health clin. serv, 53-56; assoc. prof. PSYCHOL, Chicago, 56-65; PROF, MICHIGAN, 65- Lectr, Northwestern, 55; hon. res. fel. anthrop, Manchester, 64-65. Mem. psychol. training cmt, Nat. Inst. Ment. Health, 65-69. Dipl, Am. Bd. Exam. Prfnl. Psychol, 53. Med.Admin.C, A.U.S, 42-46, 1st Lt. AAAS; fel. Psychol. Asn. Personality assessment; psychotherapy. Address: 403 Lenawee Dr, Ann Arbor, Mich. 48104.

HEINEMAN, DR. CHARLES E(DWARD), b. Germany, Mar. 7, 22; nat; m. 52; c. 2. PSYCHOLOGY. B.A, Brown, 49; Ph.D.(psychol), Iowa, 52. Psychol. trainee, Vet. Admin. Ment. Hyg. Clin, Des Moines, Iowa, 49-50, 52-53; psychologist, CHILD GUID. CLIN, 53-54, CHIEF PSYCHOLOGIST, 54- U.S.A, 43-46. Psychol. Asn. Clinical psychology. Publ: Forced choice form of the Taylor anxiety scale, J. Consult. Psychol. Address: 3768 Ferndale Dr, Ft. Wayne, Ind. 46805.

HEINEMAN, DR. ROBERT ALLEN, b. Pekin, Ill, Aug. 6, 39; m. 59; c. 2. POLITICAL SCIENCE. B.A, Bradley, 61; M.A, American Univ, 63, Nat. Defense Ed. Act fel, 63-66, Ph.D.(govt), 66. ASST. PROF. POLIT. SCI, East. Wash. State Col, 64-67; BRADLEY, 67- U.S. Higher Ed. Act. community serv. grant, 66-67. Polit. Sci. Asn; Acad. Polit. Sci. American political thought and processes and their relationship to developments in the scientific control of human behavior. Publ: Co-auth, Foreign lobbying on the sugar act amendments of 1962, Law & Contemporary Probs, spring 63; auth, Behavioral science and democracy, Wis. Sociologist, spring 68. Address: 209 W. Holland, Washington, Ill. 61571.

HEINEMANN, DR. ERIC G(USTAV), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

HEINEMANN, DR. RICHARD FERDINAND DANIEL, b. New York, N.Y, July 23, 22. EXPERIMENTAL PSYCHOLOGY. B.S, City Col. New York, 44; M.A, Fordham, 49, Ph.D, 59. Asst. psychol, Fordham, 47-48, instr, 48-51, asst, TV eval. proj, 49-50; prfnl. assoc. indust. psychol, Richardson, Bellows & Henry, 51-55; staff consult. mkt, Stewart, Dougall & Co, 55-57; mgr. res. opers, MKT. RES, Bristol-Myers Co, 59-60, dir. spec. proj, 60-61, assoc. dir, 61-64; DIR, AM. CAN CO, 64- U.S.A, 44-46, Sgt. AAAS; Psychol. Asn. Application of opinion and attitude research methodology to advertising, marketing and learning problems. Address: 4524 Byron Ave, New York, N.Y. 10466.

HEINICKE, DR. CHRISTOPH M(ATHEW), b. Berlin, Germany, Oct. 28, 26; nat; m. 58; c. 1. PSYCHOLOGY. B.A, Reed Col, 48; M.A, Northwestern, 50; Soc. Sci. Res. Council fel, 51-52, 53-54; Ph.D.(soc. psychol), Harvard, 53. Sr. res. psychologist, Tavistock Clin. & child therapist, Hamstead Clin, Eng, 53-57; fel, Center Adv. Studies Behav. Sci, 57-58; res. assoc, Mt. Zion Psychiat. Clin, 58-63; sr. res. psychologist, REISS-DAVIS CHILD STUDY CENTER, 63-66, DIR. PSYCHOTHER. PROJ, 67- Commonwealth Fund fel, 54-57; asst. prof, Stanford, 58-61, vis. clin. prof, 61-62; res. consult, E.Bay Activity Center, 62-63; vis. lectr, sch. soc. work, Portland State Col, 63. Consult, Camarillo State Hosp, 63-64; Day Care Exchange Proj, Ore, 64-; Center Early Ed, Calif, 66- Hofheimer Prize, 57. U.S.A, 45. Psychol. Asn; Asn. Child Psychoanal. Psychotherapy research with children; the child suffering from learning disability. Publ: Co-auth, Brief separations, Int. Univ, 66 & Research of psychotherapy with children: a review and suggestions for further study, Am. J. Orthopsychiat, 60; auth, Frequency of psychotherapeutic session as a factor affecting the child's developmental status, In: Psychoanalytic study of the child, 65. Address: Reiss-Davis Child Study Center, 9760 W. Pico Blvd, Los Angeles, Calif. 90035.

HEINLEIN, DR. CHRISTIAN PAUL, b. Baltimore, Md, Apr. 6, 99; m. 27. PSYCHOLOGY. A.B, Hopkins, 23, Nat. Res. Coun. fel, 27-28, Ph.D.(psychol), 27; Peabody Conserv, 20-24. Instr. math, Mt. Vernon Col, 23-24; asst. psychol, Hopkins, 25-27; instr. exp. psychol, Lehigh, 28-29; assoc. prof, Fla. State, 29-33; prof, 33-48; prof. & chmn. dept, Wittenberg, 48-49; fel, sch. higher studies, Hopkins, 49-52; dept. tech. biochem, sch. med, Hopkins, 52-53; private practice, 53-55; vis. prof. child psychol, Guilford Col, 56-57; vis. lect. psychol, NORTH CAROLINA, GREENSBORO, 56-57, VIS. RES. SCHOLAR, 57- Res. assoc, California, Los Angeles, 41-42; res. doctor, Cornell Res. Sta, 42. Fel. Psychol. Asn; Soc. Aesthetics. Psychometrics; time perception; general semantics; design of laboratory instruments and controls. Publ: Electromagnetic touch-stimulus reaction key, Science; Method of measuring difference color limen by means of the photoelectric cell with thermionic amplification, J. Gen. Psychol; Limitations of the probable error of estimate in predicting the course of human behavior, Proc. Fla. Acad. Sci. Address: 504 Forest Ave, Greensboro, N.C. 27403.

HEINLEIN, PROF. JAY C(LARE), b. Kansas City, Mo, Sept. 10, 12; m. 37; c. 1. POLITICAL SCIENCE. A.B, Grinnell Col, 34; LL.B, Kansas City Sch. Law, 38; Ph.D.(polit. sci), Chicago, 48. Asst. prof. POLIT. SCI, CINCINNATI, 47-50, assoc. prof, 50-54, PROF, 54- A.U.S, 42-46, Capt. Polit. Sci. Asn. American national government: presidency and supreme court; public law: constitutional. Publ: Presidential staff and national security policy, Univ. Cincinnati Dept. Polit. Sci, 63; Albert Gallatin: pioneer in public administration, William & Mary Quart, 50; Presidential election procedures, Univ. Cincinnati Law Rev, 66. Address: Dept. of Political Science, University of Cincinnati, Cincinnati, Ohio 45221.

HEINLEIN, PROF. JULIA HEIL, b. Baltimore, Md, Oct. 8, 95; m. 27. PSYCHOLOGY. B.S, Hopkins, 25, Laura Spelman Rockefeller Found. fel, 27-28, A.M, 28, Ph.D.(psychol), 29; Cornell, 42; Pa. State, 50. Asst. prof. child psychol, Fla. State Univ, 30-35, dir, nursery sch, 35-37, 43-45, asst. prof. psychol, Berea Col, 48-50; assoc. prof, Nebr. Wesleyan, 50-52; asst. prof, NORTH CAROLINA, GREENSBORO, 52-59, assoc. prof, 59-62, voc. counsr, 61-66, EMER. PROF. PSYCHOL, 62- County supvr, nursery schs, Fla, 43-45. Fel. Psychol. Asn; Soc. Res. Child Develop; Int. Coun. Psychol. Emotional adjustment and creative activities of children. Publ: Preferential manipulation in children, Comp. Psychol. Monogr; Study of dexterity in children; co-auth, What is the role of ESP in objective testing at the college level?, J. Psychol, 58. Address: 504 Forest St, Greensboro, N.C. 27403.

HEINS, DR. A. JAMES, b. Tigerton, Wis, May 30, 31; m. 52; c. 4. ECONOMICS. B.S, Wisconsin, 53, M.S, 57, Ph.D.(econ), 61; California, Los Angeles, 57-58. Instr. finance, ILLINOIS, URBANA, 60-61, asst. prof, 61-64, ASSOC. PROF, 64-66, ECON, 66- Consult, Ill. Cmn. Revenue, 62-63; Cmt. Econ. Develop, 65; Ill. Dir. Revenue, 67- U.S.N, 53-56, Res, 56-61, Lt.(jg). Econ. Asn. Distribution of income; state and local expenditures and taxation; economics of metropolitan areas; monetary theory. Publ: Constitutional restrictions against state debt, Univ. Wisconsin, 63; co-auth, On the determinants of income equality, Am. Econ. Rev, 3/67 & A social welfare view of the measurement of income equality, Rev. Income & Wealth, 3/67. Address: Dept. of Economics, University of Illinois, Urbana, Ill. 61801.

HEINSTEIN, DR. MARTIN I(SRAEL), b. Roxbury, Mass, May 1, 19; m; c. 3. PSYCHOLOGY. B.A, California, 42, U.S. Pub. Health Serv. fel, 56-57, Nat. Insts. Health grant, 57-58, Ph.D, 58. Labor economist, bur. labor statist, U.S. Dept. Labor, 43-47; res. analyst, child develop. center, Childrens Hosp. East Bay, 48-53; res. psychologist, Childrens Hosp. San Francisco, Calif, 58-60; Maternal & Child Health Bur, State Dept. Pub. Health, 60-65; dir. child study, Med. Sch, Stanford, 65-67; STAFF PSYCHOLOGIST, SAN FRANCISCO CHILD PSYCHIAT. CLIN, 67- Lectr. psychol, San Francisco State Col, 61- Psychol. Asn; Soc. Res. Child Develop. Child development, especially rearing and behavior problems; prenatal attitudes and early mother-child relationships; personality theory; methodological problems. Publ: Behavioral correlates of breast-bottle regimes under varying parent-infant relationships, Monogr. Soc. Res. Child Develop; Child rearing in California, Monogr. State Calif, 65; Expressed attitudes and feelings of pregnant women and their relation to physical complications of pregnancy, Merrill-Palmer Quart, 7/67. Address: 1704 Emola St, Berkeley, Calif. 94703.

HEINTZ, PROF. ROY K(ARL), b. St. Louis Co, Mo, Apr. 14, 16; m. 47; c. 3. PSYCHOLOGY. A.B, Missouri, 38; A.M, Washington (St. Louis), 44; Walker fel, Princeton, 44-46, A.M, 46, Ph.D.(psychol), 47. Instr. PSYCHOL, Pennsylvania, 46-50; asst. prof, Maryland, 50-56; assoc. prof, CALIF. STATE COL. LONG BEACH, 56-65, PROF, 65- Psychol. Asn; Sociol. Asn. Attitude theory; judgment; leadership. Publ: Effects of remote anchoring points upon judgment, J. Exp. Psychol; Participatory versus supervisory leadership, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, California State College at Long Beach, Long Beach, Calif. 90804.

HEINTZELMAN, PROF. OLIVER H(ARRY), b. Wis, Apr. 26, 09; m. 35; c. 1. GEOGRAPHY. B.A, Cent. Wash. Col. Ed, 40; M.A, Washington (Seattle), 48, Ph.D.(geog), 52. Asst. prof. GEOG, Ore. Col. Ed, 47-48; assoc. prof, OREGON STATE, 49-62, PROF, 62- Asn. Am. Geog. World regional geography; Europe; recreation. Publ: Co-auth, World regional geography. Address: Dept. of Geography, Oregon State University, Corvallis, Ore. 97331.

HEINZELMANN, DR. FRED, b. Milwaukee, Wis, Sept. 8, 31; m. 56; c. 2. SOCIAL PSYCHOLOGY. B.A, Marquette, 53; M.A, Minnesota, 56, Ph.D. (psychol), 60. Res. psychologist, behav. sci. sect, U.S. PUB. HEALTH SERV, 60-63, asst. chief, 63-65, CHIEF BEHAV. SCI. UNIT, HEART DISEASE CONTROL PROG, 65- Psychol. Asn. Reference group effects on individual judgments and behavior; determinants of health behavior; evaluation of communications and short-term training in the health area; factors influencing response to health care programs; evaluation of methods designed to influence health attitudes and behavior. Address: Behavioral Science Unit, Health Disease Control Program, U.S. Public Health Service, Webb Bldg, Room 708, 4040 N. Fairfax Dr, Arlington, Va. 22203.

HEISE, DR. DAVID REUBEN, b. Evanston, Ill, Mar. 15, 37; m. 57; c. 1. SOCIOLOGY, PSYCHOLOGY. B.J, Missouri, 58, A.B, 59; M.A, Chicago, 62, Ph.D.(sociol), 64. Instr. SOCIOL, WISCONSIN, 63-64, Nat. Inst. Ment. Health fel, 64-65, ASST. PROF, 65- Sociol. Asn; Psychol. Asn. Socialization and social control; personality and social structure; language, communication and interaction. Publ: Semantic differential profiles for 1000 most frequent English words, Psychol. Monogr, 65; Prefatory findings in the sociology of missions, J. Sci. Study Relig, 66; Cultural patterning of sexual socialization, Am. Sociol. Rev, 67. Address: Dept. of Sociology, University of Wisconsin, Madison, Wis. 53706.

HEISE, DR. GEORGE A(RMSTRONG), EXP. PSYCHOL, see 11th ed. Phys. & Biol. Vols.

HEISER, DR. KARL F(LORIEN), b. Hamilton, Ohio, June 30, 04; m. 29; c. 2. PSYCHOLOGY. A.B, Oberlin Col, 26, M.A, 27; Ph.D.(psychol), Columbia, 32. Master, Hawken Sch, Ohio, 27-28; instr. psychol, Yale, 29-34; asst. prof, Connecticut, 34-41, assoc. prof, 41-43; dir. res, State Pub. Welfare Coun, Conn, 43-45; chief pub. welfare br, U.S. Element, Allied Cmn, Austria, 45-47; lectr, Michigan, 47-48; assoc. secy, Am. Psychol. Asn, 48-51, dir. res, Training Sch, Vineland, N.J, 51-54; consult, League for Emotionally Disturbed Children, N.Y, 54-55; Psychol. Corp, 55-56; CONSULT. PSYCHOLOGIST, 56- Prof, Miami (Ohio), 66- Dir. psychol. labs, Norwich State Hosp, Conn, 40-43. Pres, Am. Bd. Psychol. Servs, 59-61. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Clinical psychology; mental and chronic illness; counseling; disability evaluation. Publ: Our backward children, Norton, 55. Address: Glendale, Ohio 45246.

HEISER, DR. RUTH BISHOP, b. Tipton, Ind, June 13, 09; m. 54. PSYCHOLOGY. A.B, Northwestern, 29; fel, Chicago, 38-39, Ph.D.(psychol), 39. Personnel consult, state tech. adv. serv, Soc. Security Bd, 40-41; acting dir. test develop. sect, U.S. Civil Serv. Cmn, 41-43; civilian dir. army specialized serv. testing prog, personnel res. sect, Adj. Gen. Off, U.S. War Dept, 43-44; asst. field dir, Am. Red Cross, 44-45; supvr. coding anal, Elmo Roper, 45-47; asst. prof. psychol, Tennessee, 47-48; personnel technician, Chicago Civil Serv. Cmn, 48-49; res. assoc, Michigan, 49-50; dir. eval. & guid. serv, Nat. League Nursing, 50-55; consult. psychologist, 55-56; res. assoc, Columbia, 56-61; CONSULT. PSYCHOLOGIST, 61- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Statist. Asn. Evaluation and measurement. Address: 60 E. Sharon Ave, Cincinnati, Ohio 45246.

HEISER, PROF. W(ILLARD) WAYNE, Geog, see 10th ed, Soc. & Behav. Vols.

HEISIG, CARL P(HILIP), b. Evansville, Ind, Nov. 27, 07; m. 35; c. 3. AGRICULTURAL ECONOMICS. B.S, State Col. Wash, 32; M.S, Wisconsin, 38. Statist. foreman, State Col. Wash, 34-35, agr. agent, exp. sta, 35, asst. agr. econ, 35-37; Wisconsin, 37-38; asst. agr. economist, State Col. Wash, 38; agr. economist, bur. agr. econ, U.S. DEPT. AGR, Calif, 38-44, D.C, 44-46, head div. farm mgt. & costs, 46-53, dir. farm econ. res. div, agr. res. serv, 54-60, farm econ. div, ECON. RES. SERV, 61-62, DEP. ADMINSTR, 62- Agr. Econ. Asn. Economic problems of agriculture on a nation wide program of research. Address: Economic Research Service, U.S. Dept. of Agriculture, South Agricultural Bldg, Washington, D.C. 20250.

HEISLER, PROF. FLORENCE, b. Brooklyn, N.Y, Apr. 3, 09. PSYCHOLOGY. B.S, N.Y. Univ, 39, M.A, 41, Ph.D.(psychol), 44. Teacher, pub. sch, N.Y, 39-43; prof. psychol. & ed. & dir. psychol. clin, East. Wash. Col. Ed, 44-50; asst. prof, ED. BROOKLYN COL, 50-58, assoc. prof, 58-65, PROF, 65- State Univ. N.Y. res. grants, 62-68. Fel. Psychol. Asn. Childrens interests in comics, radio and moving pictures; psychology of reading. Publ: Comparison of movie and non-movie goers of the elementary school, J. Ed. Res; Development of social behavior and attitudes, Growth & Develop; Guidance practices in the Soviet Union, Personnel & Guid. J. Address: 16 Clinch Ave, Garden City, N.Y. 11530.

HEISS, DR. JEROLD S(HELDON), b. Brooklyn, N.Y, Mar. 4, 30; m. 53; c. 2. SOCIOLOGY. B.A, N.Y. Univ, 51, M.A, 53, fel, Indiana, 52-55, Ph.D.(sociol), 58. Asst. statistician, med. col, Cornell, 55-56; from instr. to asst. prof. SOCIOL, CONNECTICUT, 56-64, ASSOC. PROF, 64- Res. specialist, Middlesex County Heart Study, 59; vis. res. fel, Western Australia, 62-63. Consult, State Dept. Ment. Health, Conn, 58; Nat. Surv. Undergrad. Progs. in English, 65- Distinguished faculty award, Connecticut, 67. Sociol. Asn. Sociology of the family; social psychology; acculturation. Publ: Ed, Family roles and interaction, Rand McNally, 68; Interfaith marriage and marital outcome, Marriage & Family Living; Degree of intimacy and male-female interaction, Sociometry. Address: Dept. of Sociology & Anthropology, University of Connecticut, Storrs, Conn. 06268.

HEIST, DR. PAUL A(DOLPH), b. Waverly, Iowa, Aug. 2, 17; m. 56; c. 2. PSYCHOLOGY. B.A, Luther Col, 39; M.Ed, Minnesota, 47, Ph.D, 56; M.A, Illinois, 48. Instr. ed. psychol, Carthage Col, 41-43; counsr. personnel, Minnesota, 46-48; asst. prof. psychol, Oregon State, 50-54, assoc. prof, 54-56, dir. counseling center, 55-56; assoc. res. psychologist, center study higher ed, CALIFORNIA, BERKELEY, 56-62, RES. PSYCHOLOGIST, CENTER RES. & DEVELOP. HIGHER ED, 62-, PROF. HIGHER ED, UNIV. 67- Mem. res. & develop. cmt, Col. Entrance Exam. Bd, 63- AAAS; Psychol. Asn; Soc. Psychol. Study Soc. Issues; Nat. Soc. Study of Ed; Ed. Res. Asn. Personality theory and development; personality differentiations among college students and the fundamental factors related to intellectual interests and academic achievement; personality assessment. Publ: Ed. & auth, Education for creativity—a modern myth?, Center Res. & Develop. in Higher Ed, 67; co-auth, Personality and scholarship, Science, 61; auth, Higher education and human potentialities, In: Explorations in human potentialities. C.C. Thomas, 65. Address: 4606 Tolman Hall, University of California, Berkeley, Calif. 94720.

HEISTAD, PROF. GORDON T(HOMAS), b. White Lake, Wis, Apr. 2, 25; m. 49; c. 3. PHYSIOLOGICAL PSYCHOLOGY. B.A, Concordia Col. (Moorhead, Minn), 49; M.A, Hopkins, 50; Ph.D, Chicago, 54. Fel, U.S. Pub. Health Serv, MINNESOTA, MINNEAPOLIS, 54-56, asst. prof. PSYCHIAT, 56-60, assoc. prof, 60-65, PROF, 65- Mem, U.S. Pub. Health Serv. Cmt. Behav. Pharmacol, 62-66. Med. Dept, U.S.A, 44-46. Psychol. Asn. Psychopharmacology; biological basis of emotion. Address: 5857 Fremont Ave. S, Minneapolis, Minn. 55419.

HEIZER, PROF. ROBERT FLEMING, b. Denver, Colo, July 13, 15; m. 41; c. 3. ANTHROPOLOGY. A.B, California, 36, Ph.D.(anthrop), 41; hon. Sc.D, Nevada, 65. Fel, California, 41-42; instr. ANTHROP, California, Los Angeles, 45-46; asst. prof, CALIFORNIA, BERKELEY, 46-50, assoc. prof, 51-55, PROF, 55- Dir, Calif. Archaeol. Surv, 48-; adv. Southwest Mus, 66- Anthrop. Asn; Soc. Archaeol. Methods of archaeological chronology; California archaeology; aboriginal whaling in the old and new worlds; Olmec archaeology. Publ: Archaeologist at work; Guide to archaeological field methods; co-auth, An introduction to prehistoric archaeology, Holt, 66. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

HELBING, PROF. ALBERT T(HEODORE), b. Toledo, Ohio, Dec. 29, 98; m. 48; c. 1. POLITICAL ECONOMY. Ph.B, Denison, 23; fel. & Ph.D.(polit. economy), Hopkins, 29. From assoc. prof. to prof. econ, Franklin Col, 28-30; assoc, Illinois, 30-38; personnel officer, Ill. Dept. Labor, 38-41; asst. dir. ed, Lockheed Aircraft Corp, 41-43; dir. indust. rel, Ga. Div, Bell Aircraft Corp, 43; indust. economist, Studebaker Corp, 44; personnel consult, Oil Well Supply Co, Tex, 44-45; job analyst, Los Angeles Dept. Water & Power, 45-46; assoc. prof. econ. & bus. admin, Ariz. State Col, 46-47; econ, Redlands, 47-48; PROF. BUS. ADMIN, MONTANA, 48- Spec. lectr, Idaho, 54. Mgt. consult, Chance Vought Aircraft, Inc, 55-56. Econ. Asn; Soc. Pub. Admin; Soc. Adv. Mgt. Labor management relations and labor; economics; employee and industrial relations. Publ: The departments of the American Federation of Labor; Occupational disease legislation in Illinois, Soc. Serv. Rev; Jobs in the aircraft industry. Address: Dept. of Business Administration, University of Montana, Missoula, Mont. 59801.

HELBURN, DR. NICHOLAS, b. Salem, Mass, Dec. 20, 18; m. 39; c. 2. GEOGRAPHY. A.B, Chicago, 40; M.S, Mont. State Col, 41; Ph.D, Wisconsin, 50. Asst. prof. geog. & geol, Mont. State Col, 47-50, assoc. prof, 50-54, prof, 54-64, head dept, 47-64; DIR. HIGH SCH. GEOG. PROJ, 64- Secy, Int. Geog. Union, 64- Asn. Am. Geog; Geog. Soc; Nat. Coun. Geog. Ed. Publ: High school geography and what is being done about it, Soc. Ed, 12/66; New materials and teaching strategies, Bull. Nat. Asn. Sec. Sch. Prin, 2/67; co-auth, Roads and the expansion of commercial agriculture in Coastal Ecuador, Agr. Develop. Coun, 67. Address: High School Geography Project, P.O. Box 1095, Boulder, Colo. 80302.

HELD, PROF. COLBERT C(OLGATE), b. Stamford, Tex, Sept. 3, 17; m. 40; c. 2. GEOGRAPHY. B.A, Baylor, 38; M.A, Northwestern, 40; Ph.D.(geog), Clark, 49. Asst. prof, Tarkio Col, 40-42; prof. geog, W.Tex. State Col, 49-50; from asst. prof. to assoc. prof, Nebraska, 50-57; geog. attache, U.S. For. Serv, U.S. Dept. State, Lebanon, 57-63; Consul, U.S. Consulate Gen, Saudi Arabia, 63-66; economist, Arabian Peninsula Desk, U.S. Dept. State, 66-67; PROF. GEOG, NEBRASKA, 67- Consult, Off. Geogr, U.S. Dept. State, 67- U.S.A.A.F, 42-46, Lt. Col. Asn. Am. Geog; Geog. Soc. Publ: Co-auth, Europe; auth, The new Saarland, Geog. Rev; Refugee industries in West Germany since 1954, Econ. Geog. Address: Dept. of Geography, University of Nebraska, Lincoln, Nebr. 68508.

HELD, PROF. RICHARD (MARX), b. New York, N.Y, Oct. 10, 22; m. 51; c. 3. PSYCHOLOGY. B.A, Columbia, 43, B.S, 44; M.A, Swarthmore Col, 48; fel, Harvard, 50-51, Ph.D.(psychol), 52. Nat. Insts. Health res. fel, inst. pub. health, Harvard, 52-53; instr. psychol, Brandeis, 53-55, asst. prof, 55-58, assoc. prof, 58-61, prof. & chmn. dept, 61-62; PROF. EXP. PSYCHOL, MASS. INST. TECH, 63- Mem, Inst. Adv. Study, 55-56; res. grants, Nat. Sci. Found, 56-, Nat. Inst. Ment. Health, 60- Co-ed, Psychologische Forschung, 67- Mem. study sect. exp. psychol. Nat. Insts. Health, 64-, chmn, 66-; mem. Armed Forces cmt. vision, Nat. Res. Coun, 65- U.S.N.R, 44-46, Lt.(jg). Fel. AAAS; fel. Am. Acad. Arts & Sci; fel. Psychol. Asn; fel. Acad. Optom; Int. Brain Res. Orgn. Spatial perception and orientation; comparative and physiological psychology; history of psychology and science. Address: Dept. of Psychology, E10-014, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

HELD, DR. WALTER G(EORGE), b. Willow Grove, Pa, Oct. 11, 20; m. 43; c. 3. PUBLIC ADMINISTRATION. A.B, Bucknell, 43; Harvard, 46; fel, American Univ, 48-50, M.A, 49, Ph.D.(pub. admin), 51. Asst. prof. pub. admin, American Univ, 50-52; govt. acct, ord. comptroller's off, U.S. Dept. Army, 52-54, spec. asst. to chief staff, Aberdeen Proving Ground, Md, 54-55, dep. comptroller, 55-56; secy, govt. expenditures cmt, U.S. Chamber Commerce, 56-58, dir, govt. opers. & expenditures cmt, U.S. Chamber Commerce, 56-58, dir, govt. opers. & expenditures prog, 59-60; SR. STAFF MEM, ADV. STUDY PROG, BROOKINGS INST, 60- Lectr. & prof. lectr, American Univ, 52-53; lectr, George Washington, 53-54, prof. lectr, 56-; vis. prof. govt. & econ, Col. William & Mary, 68. Mgt. consult, Budget Off, D.C, 51-52. U.S.N.R, 43-46, Lt.(jg). Soc. Personnel Admin; Ord. Asn; Polit. Sci. Asn; Soc. Pub. Admin. Publ: Performance budgeting in municipalities, Govt. Res. Asn. Reporter; Systemic improvement in the federal budgetary process, Armed Forces Comptroller; Executive skills: the repertoire needs enlarging, Columbia J. World Bus, 3-4/67. Address: 2042 Rockingham St, McLean, Va. 22101.

HELFANT, DR. KENNETH, b. New York, N.Y, Jan. 9, 22; m. 56; c. 3. PSYCHOLOGY. B.S, Mass. Inst. Tech, 47; M.A, Columbia, 48, Ph.D.(child & soc. psychol), 51. Instr, psychol. found, teachers col, Columbia, 51-52; sch. psychologist & ment. hyg. consult, pub. schs, N.Y, 52-54; sch. psychologist, Manhasset Jr. & Sr. High Schs, 54-57; CLIN. PSYCHOLOGIST & PSYCHOANALYST, 57- U.S.A, 43-46. AAAS; Psychol. Asn; Group Psychother. Asn. Preventive mental health; psychological analysis of the causes and prevention of war. Publ: Parents attitudes vs. adolescent hostility in determination of adolescent sociopolitical attitudes, Psychol. Monogr; Teaching of psychology in high schools, Sch. Rev; co-auth, Education for self understanding. Address: 50 S. Middle Neck Rd, Great Neck, N.Y. 11021.

HELFGOTT, DR. MYRON J, b. New York, N.Y, May 3, 26. SOCIAL PSYCHOLOGY. B.A, Brooklyn Col, 48; M.A, N.Y. Univ, 49; Ph.D.(soc. psychol), Michigan, 54. Researcher, Young & Rubicam, Inc, 54-55; RES. DIR, Ogilvy Benson & Mather, Inc, 55-57; PACKAGE RES. INST, 57- Pres, Helfgott & Partners, Inc, 55- U.S.A, 44-46. Psychol. Asn; Sociol. Asn; Mkt. Asn; Asn. Pub. Opinion Res. Personality theory; social organization; research methods. Address: 8 Gramercy Park S, New York, N.Y. 10003.

HELFGOTT, DR. ROY B, b. New York, N.Y, Oct. 27, 25; m. 48; c. 1. ECONOMICS, INDUSTRIAL RELATIONS. B.S.S, City Col. New York, 48; M.A, Columbia, 49; Fulbright fel, U.K, 55-56; Ph.D.(econ), New Sch. Soc. Res, 57. Res. dir. econ, N.Y. Cloak Joint Bd, Int. Ladies Garment Workers Union, 49-57; economist, N.Y. Metrop. Region Study, 57-58; asst. prof. econ, Pa. State, 58-60; economist, Pittsburgh Regional Planning Asn, 60-61; staff mem. Indust. Rels. Counsrs, 60-67, dir. econ. res, 67-68; PROF. INDUST. RELS. & CHMN. DEPT, NEWARK COL. ENG, 68- Lectr, City Col. New York, 48-57, 61-67, adj. assoc. prof, 67-68; fel, Inter-Univ. Inst. Soc. Geront, 59. Indust. rels, analyst, Wage Stabilization Bd, 52; indust. develop. officer, UN Indust. Develop. Orgn, 66-67, head mission investigate indust. possibilities in Lower Mekong Basin, summer 67. Mem, U.S. del, conf, human rels. indust, European Prod. Agency, Italy, 56. U.S.A, 44-46. Econ. Asn; Indust. Rels. Res. Asn. Industrial relations; labor economics; regional economics; economics of industry; manpower planning; economic development; technological change. Publ: Co-auth, Made in New York: case studies in metropolitan manufacturing; co-auth, Management, Automation and people, Indust. Rels. Counsrs, Inc, 64; auth, chap. in Discrimination and low incomes. Address: 305 E. 24th St, New York, N.Y. 10010.

HELFINSTINE, PROF. REX D, b. Nebr, Aug. 15, 10; m. 49; c. 1. AGRICULTURAL ECONOMICS. B.S, Iowa State Col, 32, M.S, 47; Ph.D, California, 58. Economist farm mgt, agr. res. serv, U.S. Dept. Agr, 50-60; PROF. ECON. & EXTEN. ECONOMIST, S.DAK. STATE, 60-, ASSOC. DEAN GRAD. SCH, 67- Agr. Econ. Asn. Farm economics. Publ: Irrigated and dryland farming can work together on the Cannonball River; Economic comparison of irrigated and dryland farming in Central South Dakota, S.Dak. Agr. Exp. Sta. Bull, 7/64; Oahe area water resources development: community and commercial development; S.Dak. Agr. Ext. Serv, 7/64. Address: Graduate School, South Dakota State University, Brookings, S.Dak. 57006.

HELFRICH, DR. MARGARET L(OUISE), b. Pittsburgh, Pa, Dec. 30, 29. INDUSTRIAL SOCIOLOGY. B.A, Duquesne, 51; M.A, Pittsburgh, 54, Ph.D. (sociol), 60. Asst, Pittsburgh, 55-59; instr. SOCIOL, OHIO STATE, 59-60, asst. prof, 60-66, ASSOC. PROF, 66- Indust. consult. Sociol. Asn; Acad. Polit. & Soc. Sci; Statist. Asn. Occupations and professions; complex organizations; social stratification. Publ: The social role of the executive's wife, Res. Monogr. 123, Bur. Bus. Res, Ohio State Univ, 66; Student and faculty perceptions in a professional school, Sociol. & Soc. Res, 10/64; Economic role and community involvement of business executives, Sociol. Quart, winter 68. Address: Dept. of Sociology, Ohio State University, Columbus, Ohio 43210.

HELGUERA, DR. J. LEON, Latin Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HELIKER, PROF. GEORGE B(UTLER), b. Walled Lake, Mich, Oct. 18, 19; m. 42; c. 2. ECONOMICS. A.B, Michigan, 41, A.M, 49, Rackham fel, 51-52, Ph.D.(econ), 54. Instr. econ, Wayne State, 47-51; res. assoc. hist, Columbia, 52-55, asst. prof. ECON, Detroit, 54-55; assoc. prof, MONTANA, 55-63, PROF, 63- Ford Found. fel, 59-61. Econ. Asn; Indust. Rels. Res. Asn; Soc. Economet. Appraisers.(pres, 67-69); Finance Asn. Labor economics and arbitration; public control of industry; economic theory; legal-economic consulting. Address: 920 Evans St, Missoula, Mont. 59801.

HELLEBRANDT, PROF. E(DWIN) T(HEODORE), b. Chicago, Ill, June 3, 04. ECONOMICS. B.S, Chicago, 26; M.S, Wisconsin, 27, Ph.D, 33; Harvard, 31. Instr, North Dakota, 28-29; asst. prof. econ, OHIO, 29-36, assoc. prof, 36-47, prof. & chmn. dept, 47-52, PROF. MGT. & ECON, 52-, chmn. dept. mgt, 52-66. Vis. prof, Mgt. Develop. Inst, Switz, 59-60. Consult. U.S.A, 42-46, Lt. Col. Econ. Asn; Indust. Mgt. Soc; Soc. Adv. Mgt; Inst. Mgt. Sci. Industrial relations; management and organization development; behavioral science in management. Publ: Co-auth, General business management simulation, Follett, 65. Address: 4 Cable Lane, P.O. Box 218, Athens, Ohio 45701.

HELLEINER, DR. G(ERALD) K(ARL), b. St. Polten, Austria, Oct. 9, 36; nat; m. 58; c. 2. ECONOMICS. B.A, Toronto, 58; Woodrow Wilson Nat. fels, Yale, 58-60, M.A, 60, Ford Found. fel, 60-61, Ph.D.(econ), 62. Asst. prof. ECON, center econ. growth, Yale, 61-65; ASSOC. PROF, TORONTO, 65- Res. fel, Nigerian Inst. Soc. & Econ. Res, 62-63; dir. econ. res. bur, Univ. Dar es Salaam, 66-68. Mem, Can. African Studies Cmt. Am. Econ. Asn; African Studies Asn; Can. Econ. Asn. Connections between Canadian and United States capital markets; international aspects of economic development; African economic development. Publ: Peasant agriculture, government and economic growth in Nigeria, Irwin, 66; ed, Planning for the agricultural sector in East Africa, E.African Pub. House, 68. Address: Dept. of Political Economy, University of Toronto, 100 St. George St, Toronto 5, Ont, Can.

HELLEINER, PROF. KARL FERDINAND M(ARIA), b. Vienna, Austria, Apr. 19, 02; nat. Can; m. 29; c. 3. ECONOMIC HISTORY. Ph.D.(hist), Vienna, 25. Res. fel, Monumenta Germaniae Historica, 25-27; archivist, Austria, 27-38; lectr. POLIT. ECON, TORONTO, 42-48; asst. prof, 48-53, assoc. prof, 53-59, PROF, 59- Econ. Hist. Asn; fel. Royal Soc. Can; Can. Polit. Sci. Asn.(v.pres, 61); Int. Union Sci. Study of Pop. Medieval diplomatics; medieval and early modern population history. Publ: The imperial loans, Clarendon, 65; co-auth, The cambridge economic history of Europe, Vol. 4, Cambridge Univ, 67. Address: Dept. of Political Economy, University of Toronto, Toronto 5, Ont, Can.

HELLER, DR. CELIA STOPNICKA, b. Stryj, Poland; U.S. citizen. SOCIOLOGY. M.A, Columbia, 52, Nat. Inst. Ment. Health fel, 62-63, Ph.D.(sociol), 64. Dir, George Washington Sch, Colombia, 54-55; lectr, Cartagena, 55-56; dir. res. proj. Mexican American juvenile delinquency, Los Angeles Welfare Planning Coun, 57-58; vis. lectr. SOCIOL, Vassar Col, 63-64; ASSOC. PROF, HUNTER COL, 64- Sociol. Asn. Stratification in Latin America; Mexican American community in the United States; sociological study of genocide. Publ: Mexican American youth—forgotten youth at the crossroads, Random, 66; Structured social inequality, Macmillan, 68; How the Polish Jew saw his world, Commentary, 7/54. Address: Dept. of Sociology, Hunter College, 695 Park Ave, New York, N.Y. 10021.

HELLER, DR. CHARLES F, b. Kansas City, Mo, Nov. 15, 31; m. 60; c. 3. GEOGRAPHY. B.A, Kansas, 52, M.A, 57; univ. fel, Illinois, 58-59, Nat. Acad. Sci. grant, 60, Ph.D.(geog), 62. From instr. to asst. prof. GEOG, Western Michigan, 61-64; vis. lectr, New England, Australia, 65; ASSOC. PROF, WESTERN MICHIGAN, 66- U.S.A.F, 53-55, 1st Lt. Asn. Am. Geog; Am. Geog. Soc. Agricultural geography; human geography of the southwest Pacific. Publ: The role of wheat in middle-latitude settlement: case studies from Canterbury and Michigan, Australian Geog. Studies, 10/66. Address: Dept. of Geography, Western Michigan University, Kalamazoo, Mich. 49001.

HELLER, DEAN FRANCIS H(OWARD), b. Vienna, Austria, Aug. 24, 17; nat. POLITICAL SCIENCE. LL.B, Virginia, 41, fel, 40-42, 47-48, A.M, 41, Ph.D, 48. Asst. to dir, inst. pub. affairs, Virginia, 39-42; asst. prof, Col. William & Mary, 47; POLIT. SCI, KANSAS, 48-51, assoc. prof, 51-56, PROF, 56-, assoc. dean, col. lib. arts & sci, 57-66, DEAN FACULTIES, 67-, res. assoc, govt. res. center, 53-57, dir. west. civilization prog, 56-57, assoc. dean faculties, 66-67, acting provost, 67-68. Res. assoc, State Hist. Cmn, Va, 48; mem. bd. dirs, Harry S. Truman Library Inst, 57-; Vis. Prof, Inst. Adv. Studies Vienna, 65. U.S.A, 42-46, 51-52, Res, 52-65, Maj. AAAS; Polit. Sci. Asn. Constitutional law; comparative government; criminal procedure and civil liberties. Publ: Sixth Amendment; Introduction to American constitutional law; The Presidency. Address: 223 Strong Hall, University of Kansas, Lawrence, Kans. 66044.

HELLER, DR. I(SIDOR), Math, see 11th ed, Phys. & Biol. Vols.

HELLER, DR. JOSEPH R(ICHARD), b. Brooklyn, N.Y, Mar. 25, 37. PSYCHOLOGY. B.A, Rutgers, 59; Ph.D.(psychol), California, Berkeley, 66. ASST. PROF. PSYCHOL, SACRAMENTO STATE COL, 66- Consult, res. div, Calif. Youth Authority, 64- AAAS; Psychol. Asn; Sociol. Asn. Identification and identity; juvenile delinquency and deviant behavior; research applications of computers; social problems. Address: 3111 Edison Ave, Sacramento, Calif. 95821.

HELLER, PROF. KENNETH, b. New York, N.Y, May 7, 33; m. 54; c. 2. CLINICAL PSYCHOLOGY. B.A, City Col. New York, 54; U.S. Pub. Health Serv. fel, Iowa, 54-55, M.A, 55; U.S. Pub. Health Serv. fel, Pa. State, 58-59, Ph.D, 59. Clin. trainee PSYCHOL, Vet. Admin. Hosps, Pa, 56-57; clin. asst, Pa. State, 57-58; asst. prof, North Dakota, 59-62; INDIANA, 62-66, ASSOC. PROF, 66- Instr, Pa. State, 56, 59. AAAS; Psychol. Asn. Social interaction and behavioral changes in psychotherapy; personality theory and objective overt personality measurement. Publ: Co-auth, Client dependency and therapist expectancy as relationship maintaining variables in psychotherapy, J. Consult. Psychol. Address: Dept. of Psychology, Indiana University, College of Arts & Sciences, Bloomington, Ind. 47405.

HELLER, DR. MELVIN S, Med, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HELLER, PROF. WALTER W(OLFGANG), b. Buffalo, N.Y, Aug. 27, 15; m. 38; c. 3. ECONOMICS. A.B, Oberlin Col, 35, LL.D, 64; A.M, Wisconsin, 38, Ph.D.(econ), 41; D.Litt, Kenyon Col, 65; LL.D, Ripon Col, 67; L.H.D, Coe Col, 67. Instr, Wisconsin, 41-42; economist, U.S. Dept. Treas, 42-46; assoc. prof. econ, Minnesota, 46-50, prof, 50-61, chmn. dept, 57-61; chmn, President's Coun. Econ. Adv, 61-64; prof. ECON, MINNESOTA, MINNEAPOLIS, 64-67, REGENTS' PROF, 67- Chief, internal finance group, U.S. Mil. Govt, Germany, 47-48; tax adv, Gov. Minn, 55-60; summer, financial adv, King Hussein of Jordan, 60. Consult, U.S. Dept. Treas, 46-53; Cmt. Econ. Develop, 48-49, 54-55, mem. res. adv. bd, 65-67; consult, UN, 52-61; Brookings Inst. Mem, Econ. Coop. Admin. Mission on German Fiscal Probs, 51; chmn, U.S. Census Adv. Cmt. State & Local Statist, 59-60; mem. bd, Nat. Bur. Econ. Res, 59-; mem, Upper Midwest Res. & Develop. Coun, 60; Minn. State Coun. Econ. Ed, 61; mem. bd, N.Star Res. & Develop, Coun, 65; mem, U.S. Treas. Cmn. Int. Monetary Arrangements, 65; fiscal policy expert group, Orgn. Econ. Coop, 66, chmn, 67-; Exp. City, 67; mem. bd, Nat. City Bank Minneapolis; Northwest. Nat. Life Ins; Int. Milling. Trustee, Oberlin Col, 66. Econ. Asn; Finance Asn. Fiscal and public policy. Publ: New dimensions of political economy, Harvard, 66, Norton, 67; co-auth, Revenue sharing and the city, Hopkins, 68; ed, Perspectives on economic growth, Random, 68. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

HELLING, PROF. GEORGE C, b. Minneapolis, Minn, Nov. 15, 23; m; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Hamline, 48; M.A, Minnesota, 51, Ph.D, 59. Asst. prof. SOCIOL, St. Olaf Col, 56-62, acting chmn. dept, 60-62; from asst. prof. to PROF. & CHMN. DEPT, NEBRASKA, OMAHA, 62- Ford Found. Bd. Overseas Training & Res. fel, Turkey, 53-56; lectr, Middle East Tech. Ankara, 67-68. Consult, spec. opers. res. orgn, U.S. Dept. Army, 60; Peace Corps Training Prog, 66. U.S.A.A.F, 43-46, 1st Lt. Sociol. Asn. Social change in the Middle East, especially Turkey; empirical study of values; social status, personality, innovation and disorganization; social change and problems in cities; social organization of peasant villages; sociological theory. Publ: Co-auth, Rural Turkey; Study of Turkish values; The Turkish village as a social system, Peace Corps Training Prog, 66. Address: Dept. of Sociology, University of Nebraska, Omaha, Nebr. 68101.

HELLING, PROF. RUDOLF ANTON, b. Bochum, Germany, Jan. 22, 29; Can. citizen; m. 54; c. 2. SOCIOLOGY. B.A, Wayne State, 52, Ph.D.(sociol), 62; dipl, Col. Soc. Sci, Wilhelmshaven, Germany, 53; fel, Merrill-Palmer Inst, 57-58. Field officer, Int. Labor Off, 54-55; lectr. SOCIOL, WINDSOR, 58-61, asst. prof, 61-63, assoc. prof, 63-67, PROF, 67-, HEAD DEPT. SOCIOL. & ANTHROP, 63- Can. Coun. res. grant, 58; res. assoc, inst. labor & indust. rels, Wayne State, 66-67; vis. prof, centennial summer proj, Victoria (B.C), 67. Res. consult, Detroit Spec. Ed, Voc. Rehab. Proj, 62-67; socio-econ. profile res. team, State of Ohio, 66- Fel. Sociol. Asn; fel, Royal Anthrop. Inst. Gt. Brit. & Ireland; Int. Cong. Sociol. of Relig. Social organization, especially intergroup relations in Canada; social stratification and sociology of religion. Publ: Co-auth, A survey of labor market conditions, Windsor, Ontario, Queen's Printer, Can, 65; auth, The position of Negroes, Chinese and Italians in the social structure, Ont. Human Rights Cmn, 65; co-auth, Unemployment in an inner core city area, U.S. Dept. Labor, 68. Address: Dept. of Sociology & Anthropology, University of Windsor, Windsor, Ont, Can.

HELLMAN, DR. C(LARISSE) DORIS (MRS. MORTON PEPPER), Hist. of Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HELLMAN, DR. LOUIS P(HILIP), b. New York, N.Y, July 25, 11; m. 41; c. 2. BIOSTATISTICS. B.S, City Col. New York, 33; M.A, Boston, 35; Hopkins, 35-37, spec. fel, 65-67, Sc.D.(pub. health admin. opers. res), 67; Iowa, 38-39. Med. statistician, maternal, infant & child hyg, State Dept. Health, N.Y, 37, 40-41; Selective Serv. Syst. Nat. Hq, 41-45; sr. economist, family living consumption, bur. human nutrit. & home econ, U.S. Dept. Agr, 45-48; dep. dir. med. statist. div, bur. med. & surg, U.S. Dept. Navy, 49-61; res. grants specialist, res. grants br, div. gen. med. sci, Nat. Insts. Health, 61-65; ASSOC. COORDINATOR REGIONAL MED. PROG, SCH. MED, MARYLAND, 67- Lectr, U.S. Naval Med. Sch, Nat. Naval Med. Center, 52-56. AAAS; Inst. Mgt. Sci; fel. Pub. Health Asn; Statist. Asn. Application of computers in biology and medicine; operations research; morbidity and mortality statistics; industrial medicine; clinical trials. Publ: Co-auth, Minor illness, short absenteeism, lateness and separation in a mail order firm, Indust. Med, Methods used in processing data from the physical examinations reports of the selective service system, Am. Statist. Asn. J. & Eaton agent pneumonia, Am. Med. Asn. J. Address: Regional Medical Program, Howard Hall, Room 377, University of Maryland School of Medicine, Baltimore, Md. 21201.

HELLMAN, DR. RICHARD, b. New York, N.Y, Oct. 5, 13; m. 36; c. 3. ECONOMICS. A.B, Columbia, 34, Ph.D.(econ), 67; Fulbright award, Paris, 51-52; Fed. Exec. fel, Brookings, 65-66. Economist, bur. labor statist, U.S. Dept. Labor & U.S. Dept. Commerce, 36-41; power & regional develop, U.S. Fed. Power Cmn, 41-49; U.S. Pub. Housing Admin, 49-51; econ. res, U.S. Dept. Commerce, 51-64, U.S. Secy. Commerce, 64-65; SUPVRY. ECONOMIST, U.S. SMALL BUS. ADMIN, 67- Pres, U.S. Hosp. Air Conditioning Engrs, Inc. Consult, Nat. Planning Asn, 54; Secy. Navy's Task Force on Mil. Personnel Retention, 65. Mem. U.S. Bd. Civil Serv. Exam. for Economist Exam, 63-67. U.S.N, 43-46. Econ. Asn; Soc. Heat, Refrig. & Aircond. Eng. Atomic energy economics; projections of industry, regional and national economics; public utilities. Publ: Co-auth, SST economic study, U.S. Dept. Commerce, 66; SST economics, Challenge Mag, 7-8/67. Address: 6505 Waterway Dr, Falls Church, Va. 22044.

HELLMANN, DR. DONALD C, b. Rochester, N.Y, June 24, 33; m. 60; c. 2. POLITICAL SCIENCE, COMPARATIVE POLITICS. A.B, Princeton, 55; M.A, California, Berkeley, 60, Ford Found. fel. & Ph.D.(polit. sci), 64. Instr. polit. sci, Vanderbilt, 63-64; Swarthmore, 64-66, asst. prof, 66-67; ACTING ASSOC. PROF. POLIT. SCI. & FAR EAST. & RUSSIAN INST, WASHINGTON (SEATTLE), 67- Consult, Res. Anal. Corp, 66- U.S.A, 55-57. Polit. Sci. Asn; Asn. Asian Studies (ed, Japan Newsletter, 64-). Dynamics of political change and international politics in Japan and East Asia. Publ: Domestic politics and foreign policy in postwar Japan, Univ. California, 68; Japan and the new East Asian international order, Res. Anal. Corp, 68; Relations between Japan and Communist China, Asian Surv, 5/64. Address: Far Eastern & Russian Institute, University of Washington, Seattle, Wash. 98105.

HELLMER, PROF. LEO A, Clin. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 62.

HELLMUTH, PROF. WILLIAM F(REDERICK), JR, b. Washington, D.C, Jan. 8, 20; m. 43; c. 4. ECONOMICS. A.B, Yale, 40, Ph.D, 48. Instr. econ, Yale, 45-48; asst. prof, Oberlin Col, 48-52, assoc. prof, 52-58, prof, 58-68, dean col. arts & sci, 60-67; DEP. ASST. SECY. TREAS. FOR TAX POLICY, 68- Vis. prof, Wisconsin, 59; Univ. Col, Dar es Salaam, 65-66. Economist, Fed. Reserve Bd, 54-56; Cmn. on Money & Credit, 60; dir, Oberlin Improvement & Develop. Corp, 61-; Gilford Instrument Labs, Inc, 62- U.S.A, 42-45, Maj. Econ. Asn; Tax Inst. Asn. Fiscal policy; taxation in developing economies; debt management. Publ: Financing government in a metropolitan area: Macmillan, 61; The 1957 budget, Fed. Reserve Bull; Corporate income tax base. Address: U.S. Treasury, Washington, D.C. 20220.

HELLWEG, DOUGLAS R(ICHARD), b. St. Paul, Minn, Nov, 28, 26; m. 52; c. 2. ECONOMICS. B.B.A, Minnesota, 49. Monetary economist, Fed. Reserve Bank, 51-62; dir. res, Fed. Home Loan Bank Des Moines, 62-65; asst. v.pres, FED. RESERVE BANK, 65-67, V.PRES, 67- Instr, Am. Inst. Banking, 51-; Lectr, Minn. Sch. Banking; North. Mich. Sch. Banking. U.S.A, 44-46. Econ. Asn; Finance Asn. Money and banking. Publ: A note of compensatory balance requirements, J. Finance, 3/61. Address: Federal Reserve Bank, 73 S. Fifth St, Minneapolis, Minn. 55402.

HELLYER, DR. SIDNEY, b. Portsmouth, Eng, Sept. 21, 18; Can. citizen; m. 46; c. 3. PSYCHOLOGY. B.A, British Columbia, 49, M.A, 50; Ph.D. (psychol), Indiana, 53. Defense serv. officer, Defence Res. Bd, Can, 53-58, dir. oper. res, 59-60, res. psychologist, 60-62; asst. prof. PSYCHOL, WATERLOO LUTHERAN, 63-65, ASSOC. PROF, 66- Can. Army, 39-45, Lt. AAAS; Am. Psychol. Asn; Can. Psychol. Asn. Learning and short term memory. Publ: Co-auth, Alternation as a function of preliminary training and type of deprivation, Science, 61; auth, Frequency of stimulus presentation and short term memory, 62 & Stimulus-response coding and amount of information as determinants of reaction time, 63, J. Exp. Psychol. Address: Dept. of Psychology, Waterloo Lutheran University, Waterloo, Ont, Can.

HELM, PROF. CARL E(DWARD), b. Teaneck, N.J, May 28, 27; m. 50; c. 3. PSYCHOLOGY, COMPUTERS. B.A, Duke, 49; M.A, Wayne State, 55; Ph.D. (psychol), Princeton, 59. Inspector qual. control, tank div, Ford Motor Co, 50-51; admin. asst. plant eng, Hudson Motor Car Co, 51-53; res. assoc, comput. lab, Wayne State, 53-55; res. assoc. psychomet. & comput, Ed. Testing Serv, 55-62; asst. prof. psychol, Princeton, 62-65, lectr, 65-66; res. psychologist, Ed. Testing Serv, 66-67; PROF. ED, CITY UNIV. NEW YORK, 67- Vis. lectr, Princeton, 59-62, 66- U.S.N, 45-47. Psychol. Asn; Statist. Asn; Asn. Comput. Mach. Psychological measurement theory and methods; learning theory; computer program models for cognitive processes. Publ: Co-auth, Individual differences in the structure of color preception; Am. J. Psychol; auth, Simulation models for psychometric theories, Am. Fedn. Info. Processing Socs, Proc, 65; co-auth, Assessment of human performance for the analysis of space missions, Behav. Sci, 11/67. Address: 207 Mt. Lucas Rd, Princeton, N.Y. 08540.

HELM, PROF. JUNE, b. Twin Falls, Idaho, Sept. 13, 24. ETHNOLOGY, SOCIAL ANTHROPOLOGY. Ph.B, Chicago, 44, A.M, 49, Ph.D, 58. Sessional lectr. anthrop, Carleton (Can), 49-59; field officer, north. coordination & res. center, Dept. North. Affairs & Nat. Resources, Can, 59-60; asst. prof. ANTHROP, IOWA, 60-63, assoc. prof, 63-66, PROF, 66- Summer field officer, Nat. Mus. Can, 54, 57. Consult, Can. Res. Center Anthrop, 59-; Arctic Inst. N.Am, 61. Rep. & mem. bd. dirs, Human Rel. Area Files, Inc, Conn, 60-66. AAAS; Fel. Anthrop. Asn; Ethnol. Soc. (ed, 64-68). Culture and social organization of the Arctic drainage Athapascans. Publ: Lynx point people: the dynamics of a northern Athapascan band, Nat. Mus. Can. Bull; Subsistence economy of the Dogrib Indians of Lac La Martre in the Mackenzie District of the Northwest Territories; co-auth, The Dogrib hand game, Nat. Mus. Can. Bull, 66. Address: Dept. of Sociology and Anthropology, University of Iowa, Iowa City, Iowa 52240.

HELMBERGER, DR. JOHN D(AVID), b. Burke, S.Dak, Apr. 21, 15; m. 48; c. 5. ECONOMICS. B.S, Minn. State Teachers Col, Duluth, 41; M.A, Minnesota, 47, fel, 53-54, Ph.D, 60. Instr. econ. principles & econ. anal, Minnesota, 47-51; regional economist, Off. Price Stabilization, Minn, 51-53; from instr. econ, money & banking & taxation to assoc. prof. econ. & chmn. dept, Col. of St. Thomas, 54-64; res. assoc. econ, MINNESOTA, Minneapolis, 64-66, ASSOC. PROF. AGR. ECON, ST. PAUL, 66- Fulbright award, Tunghai, summer 64. Exec. secy, Interim Cmn. Withholding Taxes, Minn. U.S.A.A.F, 42-45. Econ. Asn; Agr. Econ. Asn. Economic theory; money and banking; public finance; economic education below college level. Publ: Report of the Minnesota Interim Commission on Withholding Taxes, State of Minn. 56; A study of fluid milk distribution, Univ. Minn. Bull; The compatibility of stable prices, full employment and freedom, Proc. Minn. Acad. Sci, 59. Address: 6914 Park Ave, Minneapolis, Minn. 55423.

HELMBERGER, DR. PETER G(EORGE), b. Perham, Minn, Oct. 19, 33; m. 57; c. 2. AGRICULTURAL ECONOMICS. B.S, Minnesota, 55, M.S, 57; Ph.D. (agr. econ), California, 61. Asst. prof. AGR. ECON, Pa. State, 60-62; WISCONSIN, 62-64, ASSOC. PROF, 64- Address: Dept. of Agricultural Economics, University of Wisconsin, Madison, Wis. 53706.

HELME, DR. WILLIAM HURD, b. Brooklyn, N.Y, Aug. 1, 17; m. 45; c. 2. PSYCHOLOGY. A.B, Drew, 38, M.A, Columbia, 47; fel, New Sch. Soc. Res, 48-52, Ph.D.(psychol), 59. Res. assoc. aptitude tests & voc. guid. res, human

eng. lab, Stevens Inst. Tech, 39-42, 45-46, asst. dir. voc. guid. & counseling res, dept. psychol. studies, 46-48; res. dir. consult. & clin. psychol, Lenox Hill Consult. Serv, 48-53; personnel test psychologist, U.S. Dept. Air Force, Mitchel Field, N.Y, 53-55, proj. dir. appl. psychol. res, 55-58, task leader, 58-61, sr. task leader, 61-62; U.S. Army Personnel Research Off, DEPT. ARMY, D.C, 62-66, CHIEF, BEHAV. EVAL. RES. DIV, U.S. ARMY BEHAV. SCI. RES. LAB, 66- Consult, N.Y. Univ-Bellevue Med. Center, 50-51; Columbia-Presby. Med. Center, 52-53. U.S.A, 42-46, 1st Lt. Psychol. Asn. Psychological measurement, evaluation, diagnosis and treatment; measurement of abilities; motivation; personality attributes of normally functioning persons. Publ: Differential validity of the army classification battery for courses on seven job areas; co-auth, An empirical test of shrinkage problems in personnel classification research and Quantitative evaluation of diagnostic indicators and theory of childhood schizophrenia, Arch. Neurol. & Psychiat. Address: 7715 Cross St, Lanham, Md. 20801.

HELMICK, DR. JOHN S(AIN), b. Chanute, Kans, Nov. 11, 18; m. 47; c. 2. PSYCHOLOGY. B.S, Northwestern, 40; M.A, Wesleyan, 42; Ph.D.(psychol), Stanford, 48. Instr, California, Los Angeles, 48-50, asst. prof, 50-51; Hawaii, 51-52; prog. dir, ED. TESTING SERV, 52-56, dir. Los Angeles Off, 56-63; v.pres, Princeton, N.J, 63-68, V.PRES. & DIR. WEST. OFF, BERKELEY, 68- U.S.A.A.F, 42-46. AAAS; Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Measurement; learning. Publ: Reaction time & Motor learning, J. Exp. Psychol; Reliability or variability, J. Consult. Psychol. Address: Educational Testing Service, 1947 Center St, Berkeley, Calif. 94704.

HELMREICH, DR. ROBERT L(OUIS), b. Kansas City, Kans, Apr. 29, 37. SOCIAL PSYCHOLOGY. B.A, Yale, 59, M.S, 65, Ph.D.(psychol), 66. ASST. PROF. PSYCHOL, TEXAS, 66- Guest scientist, Naval Med. Res. Inst, 65-; Off. Naval Res. grant, 66-68. U.S.N, 59-63, Lt. AAAS; Psychol. Asn. Human reactions to psychological stress; group behavior; attitude change; emotion; interpersonal attraction. Publ: Co-auth, Groups under stress: psychological research in SEALAB II, Appleton, 68, Relevant dimensions of psychology, Brooks/Cole, 68 & Situational determinants of affiliative preference under stress, J. Personality & Soc. Psychol, 67. Address: Dept. of Psychology, University of Texas, Austin, Tex. 78712.

HELMREICH, PROF. THEODORE C(HRISTIAN), b. Crescent City, Ill, Mar. 23, 10; m. 57; c. 2. ECONOMICS. A.B. & M.A, Illinois, 32, Ph.D.(econ), 36; Inst. Int. Ed. exchange fel, Frankfurt, 33-34. From instr. to ASST. PROF. ECON, St. Louis, 35-43; DePauw, 46-47; PURDUE, 47- U.S.A, 43-45. Labor. Publ: Unemployment program of the German government, 1930-1934; Christian looks at labor. Address: Dept. of Economics, Purdue University, West Lafayette, Ind. 47907.

HELMS, PROF. E. ALLEN, b. Veedersburg, Ind, Sept. 24, 97. POLITICAL SCIENCE. A.B, Illinois, 22, A.M, 23, Ph.D, 27. Instr. POLIT. SCI, OHIO STATE, 25-29, asst. prof, 29-33, assoc. prof, 33-37, prof, 37-67, chmn. dept, 59-62, EMER. PROF, 67- Vis. prof, Oxford, 50-51. Polit. Sci. Asn. Democracy in transition; presidency in transition. Publ: Co-auth, American politics; co-auth, Presidential nomination politics, Johns Hopkins, 54. Address: Ohio State University, 216 N. Oval Dr, Columbus, Ohio 43210.

HELMS, PROF. LLOYD A(LVIN), b. Matthews, Ind, Jan. 12, 02; m. 27; c. 2. ECONOMICS. A.B, DePauw, 25; scholar, Illinois, 25-26, A.M, 26, fel, 26-27, Ph.D, 31. Asst. econ, Illinois, 27-30; prof. econ. & bus. admin. & head dept, Geneva Col, 30-38; asst. prof. ECON, BOWLING GREEN STATE, 38-40, assoc. prof, 40-45, PROF, 45-, chmn. dept. econ, 39-55, secy. faculty, 53-65, dean, grad. sch, 55-67. Econ. Asn; Finance Asn. Contributions of Lord Overstone to the theory of currency and banking. Address: Dept. of Economics, Bowling Green State University, Bowling Green, Ohio 43402.

HELMSTADTER, PROF. GERALD C(ARL), b. Nebr, Nov. 28, 25; m. 51; c. 2. PSYCHOLOGY. B.Sc, Iowa State, 49, fel, 49-50, M.Sc, 50; Ph.D.(psychol), Minnesota, 54. Asst, Minnesota, 51-52; assoc. in res, Ed. Testing Serv, 54-56; asst. prof. psychol. & head psychomet. servs, Colorado State, 56-59; assoc. prof. ed, ARIZONA STATE, 59-64, PROF. ED. PSYCHOL, 64-, DIR, UNIV. TESTING SERV, 66- U.S.A, 43-46. Fel. Psychol. Asn; Psychomet. Soc; Statist. Asn; Ed. Res. Asn. Psychometrics; statistical analysis; scientific methods. Publ: Principles of psychological measurement, Appleton, 64; Empirical evaluation of methods for estimating profile similarity, Ed. Psychol. Measurement; Procedures for obtaining separate set and content components of a test score, Psychometrika. Address: University Testing Service, Arizona State University, Tempe, Ariz. 85281.

HELPER, DR. MALCOLM M(ORRIS), b. Henry, Ill, Mar. 27, 28; m. 53. PSYCHOLOGY. B.S, Illinois, 49, fel, 49-50, A.M, 51, Ph.D.(psychol), 54. Res. asst. psychol, med. res. lab, U.S. Dept. Army, Ft. Knox, Ky, 54-56; CHIEF PSYCHOLOGIST, CHILDREN'S SERV. NEBR. PSYCHIAT. INST, 56- AAAS; Psychol. Asn; Soc. Res. Child Develop. Behavioristic interpretation of the self-concept; parent-child relationships. Publ: Learning theory and the self-concept & Parental evaluation of children and children's self-evaluations, J. Abnorm. & Soc. Psychol; co-auth, Operant conditioning and anxiety in emotionally disturbed children, Child Develop. Address: Nebraska Psychiatric Institute, 602 S. 44th Ave, Omaha, Nebr. 68105.

HELPPIE, PROF. CHARLES EVERETT, b. Wadena, Minn, Aug. 4, 30; m. 51; c. 3. ECONOMICS. B.S, Eastern Michigan, 51; Wayne State, 51-52; Ph.D. (econ), Ohio State, 59; U.S. Dept. Agr. Grad. Sch, 61-62. Asst. econ, Wayne State, 51-52; Ohio State, 52-53, asst. instr, 53-55, instr, 55-57; asst. prof. bus. statist, Bowling Green State, 57-60; economist, antitrust div, U.S. Dept. Justice, D.C, 60-65; PROF. ECON, EASTERN MICHIGAN, 65- Participant, Nat. Sci. Found. Summer Inst. Statist, Univ. Wyoming, 59. Jr. econ. analyst, Knappen-Tippitts-Abbett-McCarthy, spring, 52; mem. planning cmn, City Ypsilanti, 66-; consult, Fed. Power Cmn, D.C, 67- Econ. Asn; Statist. Asn; Economet Soc. Theory and measurement of economic damages; antitrust enforcement; measurement of industrial concentration and dispersion; conglomerate mergers. Address: Dept. of Economics, Eastern Michigan University, Ypsilanti, Mich. 48197.

HELSON, PROF. HARRY, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HELSON, DR. RAVENNA MATHEWS, b. Austin, Tex, Feb. 13, 25; m. 54. PSYCHOLOGY. Ph.D.(psychol), California, 52. Instr. psychol, Smith Col, 52-53, asst. prof, 53-55; pub. health analyst, State Dept. Health, Calif, 55-57; ASSOC. RES. PSYCHOLOGIST, INST. PERSONALITY ASSESSMENT & RES, CALIFORNIA, BERKELEY, 57- Psychol. Asn. Creativity; personality. Publ: Personality of women with imaginative and artistic interests: the role of masculinity, originality and other characteristics in their creativity, 66 & Sex differences in creative style, 67, J. Personality; Personality characteristics and developmental history of creative college women, Genetic Psychol. Monogr, 67. Address: Institute of Personality Assessment & Research, University of California, 2240 Piedmont Ave, Berkeley, Calif. 94720.

HELZNER, MANUEL L(OUIS), b. Lynn, Mass, Oct. 17, 28; m. 50; c. 3. ECONOMICS. B.A, George Washington, 50, M.A, 53. Economist, U.S. Post Off. Dept, 54-55, 59-62; economist & proj. dir, Nat. Planning Asn, 55-59; FISCAL ECONOMIST, U.S. BUR. BUDGET, 62-; ECONOMIST & PROJ. DIR, NAT. PLANNING ASN, 66- Econ. Asn; Statist. Asn. Fiscal and financial policy; economic projections. Publ: Financial needs and resources over the next decade; Impact of more defense dollars; Economy of the American people. Address: 1817 Franwall Ave, Silver Spring, Md. 20902.

HEMBREE, DR. HOWARD W(ELDON), b. Fayetteville, Ark, June 21, 20; m. 42; c. 1. EXPERIMENTAL & ENGINEERING PSYCHOLOGY. B.S, Arkansas, 48, M.A, 49; Ph.D, Maryland, 52. Asst. instr. psychol, Arkansas, 48-49; Maryland, 49-51, from asst. to assoc, 51-52; res. psychologist, Qm. Climat. Res. Lab, Lawrence, Mass, 52-53, Qm. Res. & Engr. Command, Natick, 53-54, chief human eng. sect, 54-55, sci. dir, Qm. Res. & Eng. Field Eval. Agency, Ft. Lee, Va, 55-64. TECH. DIR, U.S. ARMY GEN. EQUIP. TEST. ACTIVITY, 64- Mem, Joint Serv. Steering Cmt. Human Eng. Guide to Equip, 52-55; vision cmt, Armed Forces-Nat. Res. Coun, 53-55, hearing & bioacoustics cmt, 54-55; human factors eng. cmt, U.S. Army, 53-55, U.S. Army mem. standing working group 3, Qm. Quadripartite Standardization Group, 62-64. U.S.A.A.F, 41-45, Sgt. AAAS; Psychol. Asn; Human Factors Soc; Soc. Test. & Mat; Soc. Eng. Psychol; Mgt. Asn; N.Y. Acad. Sci. Human factors engineering; engineering psychology; performance evaluation and criterion development; market research and consumer psychology; research administration; engineering and service testing of Army equipment. Address: 1923 N. Westchester, Petersburg, Va. 23803.

HEMDAHL, PROF. REUEL G(USTAV), b. Princeton, Ill, June 20, 03; m. 33; c. 3. POLITICAL SCIENCE. A.B, Augustana Col, 25; Chicago, 28-30; Ph.D, Northwestern, 32. Asst. supt. adult ed, Works Progress Admin, Ill, 35-42; res. assoc, State Economy League, Pa. 42-44; asst. prof, S.Dak. State Col, 44-46; from assoc. prof. to PROF. POLIT. SCI, LOUISVILLE, 46- Univ. Louisville res. grant, 66. Polit. Sci. Asn; Soc. Pub. Admin. Urban renewal; city planning; city planning and land use control in the Cologne and Stockholm metropolitan areas, and the techniques of coordination for these purposes. Publ: Urban renewal, Scarecrow, 59. Address: Dept. of Political Science, University of Louisville, Louisville, Ky. 40208.

HEMINGWAY, PROF. PETER W(ING), b. Bend, Ore, Dec. 4, 29; m. 52; c. 2. PSYCHOLOGY, STATISTICS. A.B, Stanford, 51; M.A, Mich. State, 57, Nat. Sci. Found. summer fel, 59, Ph.D.(psychol), 61. Asst. PSYCHOL, Mich. State, 55-59, asst. instr, 59-60; lectr, Southern Illinois, 60-61, asst. prof, 61-66; ASSOC. PROF, MONTANA, 66- U.S.A.F, 51-55, Sgt. Psychol. Asn. Consumer behavior; pattern analytic methods; multivariate scaling. Address: Dept. of Psychology, University of Montana, Missoula, Mont. 59801.

HEMMENDINGER, DR. LAURENCE, b. Newark, N.J, July 23, 22; m. 50; c. 3. PSYCHOLOGY. A.B, Drew, 47; fel, scholar & Ph.D.(psychol), Clark, 51. CHIEF CLIN. PSYCHOLOGIST, VET. ADMIN. MENT. HYG. CLIN, BRIDGEPORT, CONN, 51- Consult, dept. welfare, State Bd. Ed, Conn. U.S.A, 43-46. Psychol. Asn. Psychotherapy; psychological diagnostic techniques. Publ: Perceptual development as reflected in the structure of Rorschach test responses. Address: Veterans Administration Mental Hygiene Clinic, Bridgeport, Conn. 06606.

HEMMERLE, DR. WILLIAM J, Math, Statist, see 11th ed. Phys. & Biol. Vols.

HEMOND, PROF. R(OBERT) L(EE), b. Holyoke, Mass, Oct. 28, 21; m. 54. ECONOMICS. B.S, Massachusetts, 43, M.S, 49, fel, 52; Boston, 51; Ph.D. (econ), Connecticut, 64. From asst. prof. to assoc. prof. ECON, AM. INT. COL, 52-64, PROF, 64-, head dept, 52-64. Trustee & dir, West. Mass. Econ. Ed. Coun, Inc, 64-; fel, Virginia, summer 67. Consult, Holyoke Chamber Commerce, 47-50; Future Holyoke Assoc, 55- U.S.A, 43-45. Econ. Asn; Arbit. Asn. Economic redevelopment of urban areas. Address: 30 Gladwin Dr, Westfield, Mass. 01085.

HEMPEL, DR. DONALD J(AY), b. Brainerd, Minn, June 12, 37; m. 59; c. 4. MARKETING, BUSINESS ECONOMICS. B.A, Minnesota, Duluth, 59, M.B.A, 63, Ph.D.(bus. admin), 66. ASST. PROF. MKT, CONNECTICUT, 64- Prin. investr. study grant, Conn. Develop. Cmn, 66-67 & center real estate & urban econ. studies, Univ. Conn, 67- Mkt. Asn. Communication influence on consumer behavior; models of buying behavior; diffusion and adoption processes for new products; competitive strategy and market interaction models; attitude measurement; experimental research methods. Publ: Nonresident vacation travel in Connecticut, Monogr. Series, Bur. Bus. Res, Univ. Connecticut, 67; Co-auth, Automobiles by the pound, J. Mkt, 7/62; auth, An experimental study of the effects of information on consumer product evaluations, Am. Mkt. Asn. Proc. Sci, Tech. & Mkt, 9/66. Address: Dept. of Marketing, University of Connecticut School of Business Administration, Storrs, Conn. 06268.

HEMPHILL, DR. JOHN K(NOX), b. Aurora, Mo, Mar. 9, 19; m. 41. PSYCHOLOGY. A.B, Ft. Hays Kans. State Col, 41; M.A, Clark, 46; Ph.D.(psychol), Maryland, 48. Asst. psychol, Maryland, 46-48; res. assoc, Ohio State, 48-55; Ed. Testing Serv, N.J, 55-66; LAB. DIR. ED, FAR W. LAB. ED. RES. & DEVELOP, 66- U.S.A.A.F, 42-45. Sociol. Asn; Psychol. Asn. Leadership;

group behavior; administration; educational research. Publ: Situational factors in leadership & Group dimensions: a manual for their measurement, Ohio State Univ. Monogrs; Administrative performance and personality. Address: Far West Lab. for Educational Research & Development, 1 Graden Circle, Hotel Claremont, Berkeley, Calif. 94705.

HENCH, PROF. WILLIAM M(ARTIN), b. Blain, Pa, July 27, 99. ECONOMICS. A.B, Pa. State Col, 23; A.M, 26; Ph.D, Pennsylvania, 37. Instr. sch. bus. admin, Syracuse, 26-30; Wharton Sch. Commerce & Finance, Pennsylvania, 31-41; asst. prof, sch. bus. & pub. admin, Temple, 41-42; from asst. prof. to assoc. prof. int. trade, PA. STATE, 46-57, sr. counsr. bus. admin. students, 49-57, prof. ECON, 57-65, asst. to dean, Col. Bus. Admin, 55, EMER. PROF, 65- U.S.A.F, 42-46, Res, 46-60, Lt. Col. Econ. Asn. International trade and economics; changes in the size of manufacturing firms in Philadelphia from 1915 through 1930; miscellaneous revenue of the city of Philadelphia. Address: Dept. of Economics, Boucke Bldg, Pennsylvania State University, University Park, Pa. 16801.

HENCKEN, DR. HUGH O, b. New York, N.Y, Jan. 8, 02; m. 36; c. 3. ARCHAEOLOGY. A.B, Princeton, 24; B.A, Cambridge, 26, Ph.D, 29, M.A, 30; hon. Litt.D, Nat. Univ. Ireland, 37. Assoc, EUROPEAN ARCHAEOL, HARVARD, 30-31, asst. curator, PEABODY MUS, 30-32, CURATOR, 32-, DIR, AM. SCH. PREHISTORIC RES, 45-, CHMN, 60- Lectr, Lowell Inst, 42; spec. lectr, London & Oxford, 47; Monro lectr, Edinburgh, 59. Mem. hon. cmt, Int. Cong. Prehistoric Sci; German Archaeol. Inst; Inst. for Etruscan & Italic Studies. Am. Acad. Arts & Sci; Archaeol. Inst.(hon. pres); Royal Archaeol. Inst. Gt. Brit; Royal Irish Acad. Prehistoric and protohistoric archaeology of Europe and North Africa. Publ: Lagore Crannog; Tarquinia, Villanovans and early Etruscans; Tarquinia and Etruscan origins, Thames & Hudson, 68. Address: Peabody Museum, Harvard University, Cambridge, Mass. 02138.

HENDEL, PROF. SAMUEL, b. New York, N.Y, July 6, 09; m. 32; c. 2. POLITICAL SCIENCE. LL.B, Brooklyn Law Sch, 30; B.S, City Col. New York, 36; Ph.D, Columbia, 48. From tutor to PROF. POLIT. SCI. CITY COL. NEW YORK, 41-, chmn. dept, 57-62, acting assoc. dean, col, 50-51. Vis. prof, Columbia, 56-59; Claremont Grad. Sch, 62; Ford faculty fel, City Col. New York, 53-54; Inter-Univ. Cmt. travel grant, 57. Mem. bd. dirs. & chmn. acad. freedom cmt, Am. Civil Liberties Union, 67- Polit. Sci. Asn. Soviet government and politics; American government; constitutional law. Publ: Soviet crucible; co-auth, European politics I: the restless search, Van Nostrand, 66; The U.S.S.R. after fifty years: promise and reality, Knopf, 67. Address: 351 W. 24th St, New York, N.Y. 10011.

HENDERSHOT, DR. PAUL T(IMOTHY), b. Malvern, Ark, June 30, 16; m. 43; c. 6. ECONOMICS, FINANCE. B.A, Henderson State Teachers Col, 38; M.A, La. State, 41, Ph.D, 47. Prin, high sch, Ark, 38-39; asst. econ, La. State, 39-41, 46-47, instr. bus. admin, 41-42; prof. & head dept. econ. & finance, La. Polytech, 47-64; ASST. DEAN, SCH. BUS, EAST CAROLINA, 64-67, GRAD. STUDIES, 67- Ford Found. scholar, California, 61; mem. Econ. in Action Prog, Wisconsin, 47. U.S.N, 42-46, Lt. Econ. Asn. Economic history. Publ: Lincoln parish: resources and facilities. Address: School of Business, East Carolina University, Greenville, N.C. 27834.

HENDERSON, DR. BANCROFT C, b. Evansville, Ind, Apr. 10, 24. POLITICAL SCIENCE. A.B, Oberlin Col, 50; Ph.D, Minnesota, 57. Instr. soc. sci, Minnesota, 55-56; POLIT. SCI, HOUSTON, 56-57, asst. prof, 57-62, ASSOC. PROF, 62- U.S.A, 42-46, S/Sgt. Polit. Sci. Asn. Judicial selection; politics of the legal profession; role of national committee members in state politics. Publ: Comparative role of the state chairman and the national committeemen, Arnold Found. Monogr, 59; co-auth, Selection of judges in Texas, Pub. Affairs Res. Center, 65. Address: Dept. of Political Science, University of Houston, Cullen Blvd, Houston, Tex. 77004.

HENDERSON, PROF. BUTLER T(HOMAS), b. Knoxville, Tenn, June 20, 19. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Morehouse Col, 44, A.M, N.Y. Univ, 47. Asst. prof. econ. & bus. admin. & head dept, Agr. Mech. & Norm. Col, Ark, 48-59; ASST. TO PRES, MOREHOUSE COL, 60-, ASSOC. PROF. ECON, 66- Econ. Asn; Acad. Polit. & Soc. Sci. Recent changes in the status of Negroes in American labor unions. Address: Dept. of Economics, Morehouse College, Atlanta, Ga. 30314.

HENDERSON, DR. CARY S, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HENDERSON, PROF. DAN FENNO, Law, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

HENDERSON, PROF. DAVID, b. Scotland, July 4, 16; nat; m. 43; c. 3. SOCIOLOGY. B.A, Westminster Col.(Pa), 38; fel, Pittsburgh, 39-41, M.A, 41, Ph.D.(sociol), 50. Instr. SOCIOL, Westminster Col.(Pa), 41-42; asst. prof, Marietta Col, 46-48; prof, Pittsburgh, 48-61; PROF. & EXEC. DEAN, CHATHAM COL, 61- Ford Fund Adv. Ed. fel, 55-56; guest prof, Pittsburgh, 64; Pittsburgh Theol. Sem, 67. U.S.A.A.F, 42-45, Sgt. Sociol. Asn; Acad. Polit. & Soc. Sci. Social problems; population; social theory. Publ: Co-auth, Contemporary social problems; co-auth, Population in its human aspects; auth, Patterns of course selection by college graduates June 1953. Address: 30 Woodland Rd, Pittsburgh, Pa. 15232.

HENDERSON, DONALD E(LISHA) V(INES), b. Waelder, Tex, June 30, 05; m. 35; c. 2. DEMOGRAPHY. B.A, Rice Inst, 25, M.A, 29; Chicago, 36-39. Prof. math, Col. of Marshall, 30-36; instr. sociol, Alabama, 39-41, asst. prof, 41-44; RES. SPECIALIST, U.S. DEPT. DEFENSE, 44- Pop. Asn; Int. Union Sci. Study Pop. Military demography. Address: 3819 N. 23rd St, Arlington, Va. 22207.

HENDERSON, G(EORGE) GORDON, S.J, b. Charleroi, Pa, Oct. 7, 17. PSYCHOLOGY. A.B, Georgetown, 41; Ph.L, Weston Col, 45; M.A, Boston Col, 45; M.Ed, 50; S.T.L, Woodstock Col.(Md), 49; Ph.D, Ottawa (Can), 60. Asst. dir. guid, Loyola High Sch, Md, 50-54; asst. prof. psychol. & dir. guid. dept, Scranton, 54-60; DIR. GUID, WHEELING COL, 60-66, PROF. PSYCHOL. & ACTING CHMN. DEPT, 66- Psychol. Asn; Personnel & Guid. Asn. Counseling; psychotherapy; prognostic testing; projective techniques. Address: Dept. of Behavioral Sciences, Wheeling College, Wheeling, W.Va. 26003.

HENDERSON, DR. GEORGE W(INSLOW), JR, b. Boston, Mass, Dec. 19, 27. INDUSTRIAL PSYCHOLOGY. A.B, Princeton, 50; M.S, Western Reserve, 57, Ph.D.(psychol), 60. Safety engr, Standard Oil Co. Ohio, 52-54, personnel asst, 54-56, res. asst. employee rels, 56-60; asst, PSYCHOL. RES. SERV, CASE WESTERN RESERVE, 60-63, asst. dir, 63-65, ASSOC. DIR, 65- U.S.A, 46-47. Psychol. Asn; Statist. Asn. Industrial assessments; employee attitude measurement; statistical methods. Address: 2956½ Washington Blvd, Cleveland Heights, Ohio 44118.

HENDERSON, DR. H(AROLD) A(LPHEUS), b. Leoma, Tenn, May 6, 24; m. 47; c. 2. AGRICULTURAL ECONOMICS. B.S, Tennessee, 47, M.S, 51; Ph.D. (agr. econ), Purdue, 63. Spec. instr. agr, Knox County Bd. Ed, Tenn, 47-50; asst. prof. agr. econ, Auburn, 52-54; agent, U.S. Dept. Agr, 54-56, AGR. ECONOMIST, 57-63; TENN. VALLEY AUTHORITY, 63- Adv, Mysore Univ. Agr. Sci, Bangalore, India, 64-66. Mem, Int. Conf. Agr. Econ, 60- U.S.M.C.R, 44-62, Capt. Agr. Econ. Asn; Econ. Asn; Indian Soc. Agr. Econ. Causes of differences in incomes of rural people; how rural people can best adjust to changing conditions; economic effects of new technology on society and individuals. Publ: Economic progress and resource adjustments of rural households in the Upper East Tennessee Valley, Purdue, 63; Marketing practices of commercial egg producers in Alabama, Ala. Agr. Exp. Sta. Bull; co-auth, Evaluating development programs, J. Coop. Exten, winter 66. Address: Agricultural Resource Development Branch, Tennessee Valley Authority, Muscle Shoals, Ala. 35660.

HENDERSON, DR. HAROLD L(EROY), b. Horton, Kans, Feb. 25, 20; m. 44; c. 3. PSYCHOLOGY. B.A, Univ. Kansas City, 41, M.A, 43; fel, Duke, 43; fel, Hofstra Col, 57; Ph.D.(psychol), Columbia, 58. Voc. adv, Vet. Admin, Iowa, 46-49; lectr, ment. hyg, Columbia Col, 50-52; psychol, City Col. New York, 52-53; from instr. to asst. prof, Hofstra Col, 52-65, consult, deans admin. & students, 53-57; V.PRES, DRIVERS SAFETY SERV. INC. DIV, INT. TEXTBOOK CO, PA, 65- Dir. res. & develop, Drivers Safety Serv, Inc, 56-; summers, voc. appraiser, Drake, 49; instr, teachers col, Columbia, 52. U.S.A, 43-46, Res, 53-55, Capt. Psychol. Asn; Asn. Automotive Med; Asn. Adv. Behav. Ther; Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun. Counseling psychology; selection; interest development; test construction; research design; accident prevention; driver behavior. Publ: Co-auth, Strategic driving, Safety Ed, 4/62, Automobility, J. Rehab, 5/65 & The effectiveness of the New Jersey driver improvement clinics; an evaluation study, Traffic Safety Res. Rev, 12/67. Address: 99 Squirrel Lane, Levittown, N.Y. 11756.

HENDERSON, DR. JAMES L(ILBURN), b. Little Rock, Ark, Aug. 10, 30; m. 57; c. 2. CLINICAL PSYCHOLOGY. B.A, Southwestern at Memphis, 52; B.D, Austin Presby. Theol. Sem, 55; M.A, Houston, 63, Ph.D, 64. Consult, Psychol. Serv. Inst. Tex, 64-67; ASST. PROF. PSYCHOL. & DIR. STUDENT COUNSELING CENTER, MISSISSIPPI, 67- Psychol. Asn. Amount of participation by members of therapy groups; developing a new technique of psychotherapy. Address: Dept. of Psychology, University of Mississippi, P.O. Box 465, University, Miss. 38677.

HENDERSON, DR. JAMES M(ITCHELL), b. San Diego, Calif, May 1, 29; m. 53. ECONOMICS. B.A, San Diego State Col, 51; M.A, Harvard, 54, Ph.D.(econ), 55. Instr. econ, Harvard, 55-56, asst. prof, 56-60; RES. DIR, UPPER MIDWEST ECON. STUDY & PROF. ECON, MINNESOTA, MINNEAPOLIS, 60- Wells prize, Harvard, 55-56. Am. Econ. Asn; Economet. Soc; Royal Econ. Soc. Economic theory; statistics and econometrics. Publ: The efficiency of the coal industry. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

HENDERSON, DR. JOHN B(ROWN), b. Glasgow, Scotland, Jan. 3, 18; nat; m. 54; c. 4. ECONOMICS. M.A, St. Andrews, 39; King's Col, Eng, 39-40; fel, Harvard, 54-56, Ph.D.(econ), 56. Lectr. econ, St. Andrews, 46-52; economist, res. dept, Fed. Reserve Bank New York, 56-60; prof. econ. Allegheny Col, 60-66; INT. ECONOMIST, JOINT ECON. CMT, U.S. CONG, 66- Vis. prof. Union Col, 50-51. R.A.F, 41-46. Econ. Asn; Soc. Int. Develop. International economic policy; monetary theory. Address: Joint Economic Committee, U.S. Congress, New Senate Office Bldg, Room G133, Washington, D.C. 20510.

HENDERSON, PROF. JOHN P(ATRICK), b. Sudbury, Ont, Apr. 23, 19; nat; m. 52; c. 2. ECONOMICS. A.B, California, Berkeley, 44; Ph.D.(econ), Maryland, 56. Lectr. Econ, Buffalo, 47-53; asst. prof, Pittsburgh, 55-57; vis. assoc. prof, Illinois, 57-58; assoc. prof, MICH. STATE, 58-64, PROF. & DIR. GRAD. PROG. ECON, 64- Consult, U.S. Dept. Labor; U.S. Agency Int. Develop. Econ. Asn; Indust. Rels. Res. Asn; African Studies Asn. Theory and history of economic thought; labor and economic development. Publ: Labor market institution and wages in lodging industry; Changes in the industrial distribution of employment; African image of higher education in America, Exchange. Address: 1744 Ridgewood Dr, East Lansing, Mich. 48823.

HENDERSON, PROF. JOHN S(TEELE), Econ, see 10th ed, Soc. & Behav. Vols.

HENDERSON, PROF. JOSEPH R(ALSTON), b. Elders Ridge, Pa, May 9, 15; m. 41; c. 4. SOCIOLOGY, PSYCHOLOGY. B.S, Indiana State Col.(Pa), 39; M.A, N.Y. Univ, 45, Ed.D, 54. Prin, pub. schs, Pa, 37-40; Ezel Sch, Ky, 41; dir, Annville Inst, 45-47; prof. sociol. & chmn. div. soc. sci, Union Col. (Ky), 48-56; PROF. ED. & PSYCHOL, CHMN. DEPT. & DIR. GRAD. PROG, WESTMINSTER COL.(PA), 56- Pres, Pa. Asn. Lib. Arts Cols, 67-68. U.S.A, 41-45. Sociol. Asn; Psychol. Asn. Student teaching; educational sociology, psychology and philosophy; family life. Publ: Attitudes toward family life. Address: 218 Meadowbrook Dr, New Wilmington, Pa. 16142.

HENDERSON, DR. JULIA J(UANITA), b. Du Quoin, Ill, Aug. 15, 15. POLITICAL SCIENCE, ECONOMICS. B.A, Illinois, 36, M.A, 37; fel, Harvard, 44-45; Ph.D.(polit. sci, econ), Minnesota, 45. Intern, Nat. Pub. Affairs, 38-39; tech. adv, Soc. Security Bd, 39-42; lectr. polit. sci, Wellesley Col, 42-44;

orgn. & mgt. adv, UN, 45-47, chief policy div, bur. finance, 47-51, dir. div. soc. welfare, 51-54, bur. soc. affairs, 55-67, ASSOC. CMNR. TECH. COOP, 67- Acad. Polit. & Soc. Sci; Soc. Pub. Admin. International migration; social aspects of economic development. Publ: Importation of foreign labor to the United States, 1941-1945. Address: Office of Technical Cooperation, United Nations, New York, N.Y. 10017.

HENDERSON, DR. KEITH MEADER, b. Bakersfield, Calif, May 24, 34; m. 66. PUBLIC ADMINISTRATION. B.A, Occidental Col, 56; M.S, Southern California, 57, D.P.A, 61; Columbia, 64-65. Jr. admin. asst, civil serv. dept, City of Los Angeles, 56-58, personnel analyst, 58, admin. analyst, admin. off, 58-60, field deputy, city coun, 61; asst. prof. PUB. ADMIN, American Univ. Beirut, 61-64; ASSOC. PROF, GRAD. SCH. PUB. ADMIN, N.Y. UNIV, 64- Rockefeller Found. res. grant, 63; Pres, Henderson Develop, 66- Mem, Mayor Lindsay's Re-orgn. Task Force, New York Dept. Labor, 66. U.S.A, 59-60. AAAS; Soc. Pub. Admin; Mid. East Studies Asn; Mid. East Inst. Comparative public administration especially the Middle East; administrative theory and practice in the United States. Publ: Emerging synthesis in American public administration, Taplinger, 66; Introduction au concept americain de l'administration publique, Int. Rev. Admin. Sci, 64; Charting a new terrain: comparative local administration, Pub. Admin. Rev, 6/67. Address: Graduate School of Public Administration, New York University, 4 Washington Square N, New York, N.Y. 10003.

HENDERSON, DR. MACK T, b. Indiana, Pa; m. 39; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Ohio Wesleyan, 29; M.A, Iowa, 31, Ph.D.(psychol), 33. Instr. psychol, Ripon Col, 33-35, asst. to dean, 35-36; asst. prof. psychol. & dir. admissions, Knox Col, 36-38; from asst. prof. to prof. psychol, Grinnell Col, 38-46; mem. staff, ROHRER, HIBLER & REPLOGLE, 46-53, PARTNER, 53- AAAS; fel. Psychol. Asn. Individual differences; aptitudes; rhythmic organizations within artistic piano performances. Address: Suite 800, 626 Wilshire Blvd, Los Angeles, Calif. 90017.

HENDERSON, DR. NORMAN B(ROMAGE), b. Chicago, Ill, Mar. 15, 17; m. 40; c. 4. PSYCHOLOGY. A.B, Fresno State Col, 38; M.A, Occidental Col, 48; Ph.D.(psychol), California, Los Angeles, 53. Instr. psychol, counsr. & psychologist, Los Angeles City Col, 48-56; from asst. prof. to assoc. prof. psychol. & ed. & counseling div, Los Angeles State Col, 53-57; private practice, 57-64; clin. psychologist & field dir, Family Consult. Serv, Community Treatment & Res. Prog, 64-65; assoc. prof. psychol. & proj. dir, Navajo Rehab. Prog, Northern Arizona, 65-67; ASSOC. PROF. MED. PSYCHOL, MED. SCH, OREGON, 67- Diag. testing & psychother, Los Angeles Psychol. Serv. Center, 53-54; private practice, 53-57; head dept, Kings View Psychiat. Hosp, Reedley, Calif, 57-60. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Psychotherapy; personality diagnosis; test validity; culture and personality; relationship of ethnic background and alcoholic consumption and reactions; clinical psychology: therapy, measurement, and child development. Publ: Co-auth, The intelligence of American children of Mexican parentage, J. Abnorm. & Soc. Psychol, 7/50 & Certification, licensing, and the movement of psychologists from state to state, Am. Psychologist, 20: 418-421; auth, Cross-cultural action research: some limitations, advantages, and problems, J.Soc. Psychol, 73: 61-70. Address: Dept. of Medical Psychology, University of Oregon Medical School, Portland, Ore. 97201.

HENDERSON, DR. NORMAN DAVID, b. New York, N.Y, Feb. 12, 37; m. 60; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Lehigh, 59; M.S, Western Reserve, 60, Ph.D.(psychol), 61. Instr. PSYCHOL, Fenn Col, 59-60; from instr. to ASSOC. PROF, OBERLIN COL, 60- Nat. Sci. Found. res. grant, 61-, faculty fel, 65-66. Psychol. Asn. Genetic and early environmental determinants of animal behavior. Publ: Effects of intensity and spacing of prior stimulation on later emotional behavior, J. Comp. & Physiol. Psychol, 66; Prior treatment effects on open field behavior of mice—a genetic analysis, Animal Behav, 67. Address: Dept. of Psychology, Oberlin College, Oberlin, Ohio 44074.

HENDERSON, DR. PETER L(OUIS), b. Calhoun, Ga, Apr. 26, 18; m. 45; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Georgia, 42, M.S.A, 48; Ph.D.(agr. econ), Cornell, 52. Coop. agent, Cornell, 52-53; assoc. prof. agr. econ, Va. Polytech, 53-57; AGR. ECONOMIST, U.S. DEPT. AGR, 57- U.S.A, 43-45, Capt. Agr. Econ. Asn; Mkt. Asn. Fruit marketing; methods of research in marketing; merchandizing methods and techniques. Publ: Application of double change-over design in marketing research, Methods Res. Mkt. Paper; Sales effect of two campaign themes, J. Adv. Res; Marketing experimentation for measurement of advertising and promotion effectiveness, J. Am. Statist. Asn. Bus. & Econ. Statist. Sect. Proc, 66. Address: 4611 Kling Dr, Alexandria, Va. 22312.

HENDERSON, PROF. PHILIP A(LDEN), b. Superior, Nebr, Feb. 9, 14; m. 38; c. 4. AGRICULTURAL ECONOMICS. B.Sc, Nebraska, 35; Ph.D.(agr. econ), Cornell, 39. Farm mgt. specialist, Purdue, 39-43; farmer, 43-50; mgr. develop. farms & assoc. agr. econ, NEBRASKA, 50-59, PROF. AGR. ECON, 59-, EXTEN. ECONOMIST, 56- Co-recipient, Resources for Future res. grant, 55-58, 61; mem. livestock surv. team to Uganda, Africa, econ. res. serv, U.S. Dept. Agr, 63. Consult, Experience, Inc, 64-65. Soc. Farm. Mgr. & Rural Appraisers; Agr. Econ. Asn. Management problems of individual farm and ranch operators, especially economics of livestock enterprises; leasing arrangements on farms and ranches; farm property transfers. Publ: Co-auth, Land and people in the northern plains transition area, 66, Is your lease fair?, N.Cent. regional Bull. 9, 60 & Your pasture lease, N.Cent. Regional Bull. 20, 65, Univ. Nebr. Address: Dept. of Agricultural Economics, University of Nebraska, Lincoln, Nebr. 68508.

HENDERSON, DR. PHILIP S, b. New York, N.Y, Oct. 3, 10; m. 50; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 30; M.A, Columbia, 32; N.Y. Psychoanal. Inst, 37-38; Pomona Col, 43; Ph.D.(psychol), Tennessee, 50. Intern psychol, Elmira Reformatory, 32-33; extern, Child Guid, N.Y, 33-34; psychologist, Sing Sing Prison, 35-39; Woodbourne Inst. for Defective Delinquents, 39-46; acting chief clin. psychol, Vet. Admin. Hosp, Murfreesboro, Tenn, 46-48; instr, Vet. Admin. clin. psychol. training prog, grad. sch, Tennessee, 48; Vet. Admin. Hosp, Tuscaloosa & Ment. Hyg. Clin, Knoxville, 48-50; CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, North Little Rock, Ark, 51-58, AUGUSTA, GA, 58- Lectr, N.Y. Univ, 40. Dipl, Am. Bd. Exam. Prfnl. Psychol, 53. U.S.A, 41-45. Psychol. Asn. Training and administration; personality behavior theory; criminology. Address: 1403 Habersham Dr, Augusta, Ga. 30904.

HENDERSON, PROF. RICHARD B, b. Washington, D.C, Nov. 27, 21; m. 44; c. 3. POLITICAL SCIENCE. B.A, Southwest Tex. State Col, 49; M.A, Maryland, 50, Ph.D.(govt), 60. Instr. govt, Southwest Tex. State Col, summer, 49; Maryland, 50-51, 54-55; asst. prof, SOUTHWEST TEX. STATE COL, 51-53, 55-57, assoc. prof, 57-62, prof. & chmn. soc. sci. div, 62-65, PROF. GOVT. & CHMN. DEPT, 65- U.S.A.A.F, 42-46, 1st Lt. Polit. Sci. Asn. Political theory; parties and party politics. Address: Dept. of Government, Southwest Texas State College, San Marcos, Tex. 78666.

HENDERSON, PROF. ROBERT D(EAN), b. Pittsburgh, Pa, Sept, 22, 16. INDUSTRIAL MANAGEMENT. B.B.A, Westminster Col, 38; M.B.A, Ohio State, 41; Ph.D, Pittsburgh, 49. From instr. to assoc. prof. econ, Bucknell, 46-54; assoc. prof. MGT, BOWLING GREEN STATE, 54-56, PROF, 56- Ford Found. fel, California, 61. Consult, Boeing Airplane Co; Humble Oil & Ref. Co; Int. Bus. Mach. Corp; Ford Motor Co; Marathon Oil Co; Lago Oil & Transport Co, Ltd. Assoc. ed, J. Purchasing. U.S.A, 42-43. Indust. Rel. Res. Asn; Acad. Mgt.(secy-treas). Industrial and personnel management; labor relations; procurement. Address: Dept. of Management, Bowling Green State University, Bowling Green, Ohio 43402.

HENDERSON, DR. ROBERT L(YNN), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

HENDERSON, DR. ROBERT W(ILLIAM), b. Steubenville, Ohio, Jan. 1, 10; m. 42; c. 3. PSYCHOLOGY. A.B, Miami (Ohio), 32; M.A, Akron, 37; Ph.D, Kentucky, 49. Tech. assoc, personnel res. inst, Western Reserve, 41-42; consult, Vet. Admin, 46-47; asst. dir. personnel, Kentucky, 47-49; dir. measurement serv, Akron, 49-51; consult. psychologist, Rohrer, Hibler & Replogle, 51-52; PARTNER, WILLIAM, LYNDE & WILLIAMS, 52- U.S.A, 42-46. Psychol. Asn. Management assessment and development; test construction. Publ: Contrib. ed, Helping yourself with applied psychology, Parker, 67; auth, College interest inventory, 67 & co-auth, Coping with personal depression, 68, Personal Growth Press. Address: 22463 Detroit Rd, Rocky River, Ohio 44116

HENDERSON, PRES. THOMAS H(OWARD), b. Newport News, Va, Jan. 31, 10; m. 36; c. 1. PSYCHOLOGY, EDUCATION. B.S, Va. Union, 29; M.A, Chicago, 38, Gen. Ed. Bd. fel, 45-46, Ph.D.(ed), 46; hon. LL.D, Va. State Col, 67. PROF. PSYCHOL, VA. UNION, 41-, PRES, 60-, dean, 41-60. Inequalities in educational opportunity. Address: Dept. of Psychology, Virginia Union University, Richmond, Va. 23220.

HENDERSON, PROF. VIVIAN W(ILSON), Econ, see 10th ed, Phys. & Biol. Vols. Latest known address: 1209 Fountain Drive, S.W. Atlanta, Ga. 30314.

HENDERSON, PROF. WILLIAM LEROY, b. St. Clairsville, Ohio, Aug. 23, 27; m. 60; c. 1. ECONOMICS, STATISTICS. B.S, Ohio State, 51, M.A, 54, Ph.D.(pub. finance), 62. Asst. statist, Ohio State, 52-54, asst. instr. econ. hist. & statist, 56-57, instr. pub. finance & statist, 57-60; instr, Capital Univ, 54-56, asst. prof. pub. finance, Denison, 60-63; assoc. dir. econ. bur. res, Univ. Arizona, 63-65; assoc. prof. ECON, DENISON, 65-67, PROF, 68-, CHMN. DEPT, 65- Ford Found. summer fel, 62. U.S.A.A.F, 45-46. Econ. Asn; Asn. Evolutionary Econ; Can. Econ. Asn. Criteria and determination of collective choice by government through expenditures and social control. Publ: Co-auth, Readings in public finance, Random, 65. Address: Dept. of Economics, Denison University, Granville, Ohio 43023.

HENDLEY, DR. WILLIAM R(OBERT), b. Chattanooga, Tenn, July 1, 34; m. 63; c. 1. ECONOMICS. B.A, Yale, 56; Commonwealth fel, Duke, 56-57, Earhart fel, 57-58, Scandinavian Am. fel, 58-59, Ph.D.(econ), 66. Instr. ECON, N.C. State, 59-62, ASST. PROF, 62-65; CORNELL COL, 66- Econ. Asn. Tax and stabilization policy in Scandinavia. Address: Dept. of Economics, Cornell College, Mt. Vernon, Iowa 52314.

HENDON, DR. WILLIAM S(COTT), b. Oklahoma City, Okla, Aug. 30, 33; m. 57; c. 3. ECONOMICS. B.A, Oklahoma, 55, M.A, 58, Ph.D.(econ), 64. Teaching asst. econ, Oklahoma, 60-61; asst. prof. statist, Texas Christian, 61-65; assoc. prof. econ, Tex. Tech. Col, 65-68; DIR. CENTER URBAN STUDIES, UNIV. AKRON, 68- Acting chmn. dept. econ, Inter-Am. Univ. P.R, 67-68; vis. prof, Old Dom. Col, 68. Res. grants U.S. Dept. Health, Ed. & Welfare, 66-67, State Tex. Coord. Bd. Higher Ed, 67 & U.S. Off. Econ. Opportunity, 67. Government regulation of business; cost-benefit analysis; resources policy. Publ: Large firms and small firms: enforcement of the Clayton Act, Antitrust Bull. 5 & 6: 949-62, 12/66; Land values adjacent to an urban neighborhood park, Land Econ. 3: 357-60, 8/67; A public policy problem in discrimination: the property tax an example, Am. J. Econ. & Sociol. Address: Center for Urban Studies, University of Akron, Akron, Ohio 44304.

HENDRICK, DR. CLYDE A(LVIN), b. Reed, Okla, July 13, 36; m. 56; c. 1. PSYCHOLOGY. B.A, Humboldt State Col, 63; Nat. Defense Ed. Act fel, Missouri, 63-66, M.A, 65, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, HUMBOLDT STATE COL, 67- AAAS. Social psychology, with special interest in person perception and attitude change. Publ: Comment on Watterman and Ford's dissonance reduction or differential recall, 3: 706-707 & Decision time as a function of the number and complexity of equally attractive alternatives, (in press), J. Personality & Soc. Psychol; The use of foreign languages by psychologists, Am. Psychologist, 21: 1074. Address: Dept. of Psychology, Humboldt State College, Arcata, Calif. 95521.

HENDRICK, DR. HAL WILMANS, b. Dallas, Tex, Mar. 11, 33; m. 61; c. 4. PSYCHOLOGY. B.A, Ohio, 55; M.S, Purdue, 61, Ph.D.(psychol), 66. Radar intercepter controller, Air Defense Command, U.S. Air Force, 56-60, human performance engr, res. & tech. div, U.S. Air Force Systs. Command, 61-64, instr. PSYCHOL, U.S. AIR FORCE ACAD, 66, asst. prof, 66, ASSOC. PROF, 67- Hon. prof, Colorado, 66-; U.S. Air Force scientist-astronaut.

candidate, 66. U.S. Air Force Commendation Medal, 64. U.S.A.F, 56-, Maj. Psychol. Asn; Research Soc. Experimental design and analysis; human factors engineering; management training and development; personnel selection; experimental personality research, especially perception and motivation; industrial and organizational psychology. Publ: Development and validation of a motivation test for personnel selection, Dissertation Abstracts, 66. Address: Dept. of Psychology, U.S. Air Force Academy, Colo. 80840.

HENDRICK, DR. IVES, Psychiat, see 11th ed. Phys. & Biol. Vols.

HENDRICKS, PROF. FRANCIS, b. Chicago, Ill, Aug. 16, 19; m. 57; c. 2. CITY & REGIONAL PLANNING. A.B, California, Berkeley, 50, M.C.P, 58. Supvry. urban planner, U.S. Navy Planning, San Francisco; sr. staff urban econ, Arthur D. Little, Inc; city planning consult, F. Hendricks & Assoc; ASSOC. RES. PROF. URBAN PLANNING, GRAD. SCH. PUB. & INT. AFFAIRS, PITTSBURGH, 66- Vis. lectr, Pittsburgh, summer 65, spring 66; Stanford, fall 65. Distinguished Serv. Award, U.S. Navy, 57. U.S.A.F, 42-46, Capt. Inst. Planners; Soc. Gen. Syst. Res; Soc. Planning Off; Inst. Mgt. Sci. Operational gaming; simulation of large scale urban systems; heuristic programming; environmental structure. Publ: Planning operational gaming experiment, Univ. Pittsburgh, 60; Program model for redevelopment, U.S. Naval Facilities Eng. Command, 66; Feedback implication-Stockton programming model, In: Planning research, 66. Address: 801A Bruce Hall, Graduate School of Public & International Affairs, University of Pittsburgh, Pittsburgh, Pa. 15213.

HENDRICKS, DR. J(AMES) EDWIN, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HENDRICKS, PROF. LUTHER V, b. Stone Ridge, N.Y, Sept. 16, 12; m. 36; c. 1. SOCIAL SCIENCE. B.S, N.Y. Univ, 35, A.M, 38; Ph.D, Columbia, 46. Chmn. dept. soc. studies, high sch, N.Y, 35-42; dept. prob. democracy, N.J, 42-45; instr, N.Y. Univ, 45-46; PROF. SOC. STUDIES & CHMN. DEPT, EDINBORO STATE COL, 46- Consult, Health, Ed. & Welfare Dept, for granting Nat. Defense Ed. Act. Insts, 67. Mem, Nat. Coun. Soc. Studies. Acad. Polit. & Soc. Sci. Publ: James Harvey Robinson, teacher of history; James Harvey Robinson and New School for Social Research, J. Higher Ed. Address: Dept. of Social Science, Edinboro State College, Edinboro, Pa. 16412.

HENDRICKS, PROF. RICHARD, b. Monroe, Ind, May 8, 16; m. 41; c. 2. SPEECH PATHOLOGY, AUDIOLOGY. A.B, Franklin Col, 37; M.A, Ohio State, 39, Ph.D.(speech & hearing sci), 56. Instr. speech, MARYLAND, 46-48, asst. prof, 48-50, 52-56, assoc. prof. SPEECH & HEARING SCI, 56-60, PROF, 60-, DIR. SPEECH & HEARING CLIN, 54- Consult, Prince Georges County, Md, 52-56; State Health Dept, Md, 52-60; Electronic Teaching Lab, Inc, 59-60; Queen Annes County Pub. Schs, 60- U.S.A, 43-46. AAAS; Speech Asn; Speech & Hearing Asn. Speech intelligibility; sidetone; aphasia; delayed speech; research automated speech therapy. Publ: Speech training and correction, Electronic Teaching Labs, 60. Address: Dept. of Speech, University of Maryland, College Park, Md. 20740.

HENDRICKS, WALTER ANTON, Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HENDRICKS, WALTER PAUL, Econ, see 10th ed, Soc. & Behav. Vols.

HENDRICKSON, DR. CLARENCE I(RVING), b. Argyle, Wis, Aug. 12, 93; m. 24; c. 1. AGRICULTURAL ECONOMICS. B.S, Wisconsin, 18, M.S, 21, Ph.D.(agr. econ), 29. Assoc. prof. & economist, Conn. Agr. Col, 23-30; agr. economist, bur. agr. econ, U.S. Dept. Agr, 30-37, agr. adjust. admin, 37-42, war food admin, 42-46, food distribution, 46-54, mkt. res. div, agr. mkt. serv, 54-61, mkt. econ. div. econ. res. serv, 61-64; RETIRED. Vis. prof, Wis. State, Platteville, 65. Am. Agr. Econ. Asn; Can. Agr. Econ. Soc. Agricultural marketing; land and water economics and conservation; agricultural policy. Publ: History of tobacco production in New England, Bull, Conn. Exp. Sta; Auction marketing of flue-cured tobacco; Processed binders for cigars. Address: 415 W. Cedar St, Platteville, Wis. 53818.

HENDRICKSON, HARRY G(ILMORE), Soc. Sci, Econ, see 10th ed, Soc. & Behav. Vols.

HENDRICKSON, DR. KENNETH ELTON, JR, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HENDRICKSON, DR. W(ILLARD) J(AMES), b. Battle Creek, Mich, Aug. 23, 16; m. 46; c. 2. PSYCHIATRY. B.S, Calif. Inst. Tech, 42; M.D, Michigan, 45, M.S, 53. Intern, Univ. Hosp, MICHIGAN, 45-46, res. PSYCHIAT, Neuropsychiat. Inst, 48-50, instr. UNIV, 50-53, asst. prof, 53-56, ASSOC. PROF, 56-, CHIEF, ADOLESCENT SERV, NEUROPSYCHIAT. INST, 56-Consult, Starr Commonwealth for Boys, 52-55; Ann Arbor Family Agency; 53-; Vet. Admin. Hosp, 53- Med.C, U.S.A, 46-48. Psychiat. Asn. Clinical investigation of methods of psychiatric treatment of adolescent patients. Address: 1708 Morton Ave, Ann Arbor, Mich. 48104.

HENDRIKSEN, PROF. ELDON S(ENDE), b. Alhambra, Calif, Oct. 20, 17; m. 42; c. 2. ACCOUNTING, ECONOMICS. B.S, California, 41, M.B.A, 47, Ph.D.(econ), 57. Assoc. acct, California, 47-51; sr. staff acct, Haskins & Sells, Calif, 51-53; asst. prof. acct, Idaho, 53-55; BUS. ADMIN, WASHINGTON STATE, 55-57, assoc. prof, 57-61, PROF, 61- Summer, vis. prof, Idaho, 61. U.S.N.R, 41-49, Lt. Econ. Asn; Acct. Asn; Inst. Cert. Pub. Acct. Accounting theory; development of accounting principles; external financial reporting. Publ: Accounting theory, Irwin, 65; Price-level adjustments of financial statements: an evaluation and case study of two public utility firms; Toward greater comparability through uniformity of accounting principles, N.Y. Cert. Pub. Acct, 2/67. Address: Dept. of Business Administration, Washington State University, Pullman, Wash, 99163.

HENDRIX, PROF. FRANK LEONARD, b. Chattanooga, Tenn, May 3, 23; m. 47; c. 3. TRANSPORTATION ECONOMICS. B.S, Tennessee, 49, M.S, 50; Abernethy fel, North Carolina, 50-53, Ph.D, 61. Instr. TRANSPORTATION, TENNESSEE, 53-55, asst. prof, 55-62, assoc. prof, 62-64, PROF, 64-, RES. ECONOMIST, ENG. EXP. STA, 61- Consult, Univ. South Carolina & State Planning Bd, S.C, 61; Civil Air Patrol, 57- U.S.A, 43-46. Econ. Asn. Measurement of monopoly power; highway impact studies; traffic and commodity flow analysis; application of linear programming to transportation problems. Publ: Appalachian Airlines: a simulation game, Mgt. Series Number 6, Bur. Bus. & Econ. Res, Col. Bus. Admin, Univ. Tenn; Federal transport statistics: an analysis, Transportation J, Vol. 5, 1; Simulation games: an educational tool, Tenn. Surv. Bus, Vol. 1, 7. Address: College of Business Administration, University of Tennessee, Knoxville, Tenn. 37966.

HENDRIX, DR. W(ALTER) CLIFFORD, III, b. Atlanta, Ga, Aug. 24, 38; m. 62; c. 2. POLITICAL SCIENCE. A.B, Mercer, 60; Woodrow Wilson fel, Yale Divinity Sch, 60-61, Danforth fels, Yale Grad. Sch, 61-65, M.A, 63, Ph.D. (polit. sci), 66. Admin. aide, Community Progress, Inc, 65-66; INSTR. POLIT. SCI, U.S. MIL. ACAD, 67- U.S.A, 66-, Capt. Polit. Sci. Asn. Political philosophy; United States politics. Address: 52 Willow Ave, Apt. D-3, Cornwall, N.Y. 12518.

HENDRIX, DR. W(ILLIAM) E(LBERT), b. Cottage Grove, Tenn, Aug. 16, 14. AGRICULTURAL ECONOMICS. B.S.A, Tennessee, 35, M.S, 36; Gen. Ed. Bd. fel, Wisconsin, 46-48, Ph.D, 53. Res. assoc, Tennessee, 36-38; asst. agr. economist, exp. sta, Georgia, 38-43, assoc. agr. economist, 43-50, agr. economist, 50-51; res. assoc, Chicago, 51-55; leader rural econ. develop. invests, ECON. RES. SERV, U.S. DEPT. AGR, 55-62, INT. AGR. ECONOMIST, 62- Econ. Asn; Agr. Econ. Asn. Economics of underemployment and low incomes in agriculture and rural economic development; agricultural development in newly developing nations. Publ: Co-auth, Changes in agriculture in 26 developing nations, U.S. Dept. Agr, 65; auth, Income improvement prospects in low income areas & Relations of low incomes in agriculture to other major national economic problems, J. Farm Econ. Address: Foreign Development & Trade Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

HENDRY, DR. JAMES B(AUSCH), b. Chicago, Ill, Nov. 17, 21; m. 48; c. 3. ECONOMICS. A.B, Col. William & Mary, 46; Yale, 43-44; Michigan, 45; M.A, Columbia, 51, Ph.D, 56. Exec. trainee, Standard Vacuum Oil Co, China, 47-48; for. serv. staff officer Econ. Coop. Admin, China, 48-49; instr. econ, Washington (St. Louis), 52-55; Mich. State, 55-56, asst. prof, 56-60, assoc. prof. econ. & asst. dean, col. bus. pub. serv, 60-62, dir. econ. & agr. develop. inst, 64-66; adv. econ. planning, Harvard Adv. Group, Pakistan, 62-64; consult, INT. BANK RECONSTRUCT. & DEVELOP, 65-66, AGR. ECONOMIST, 66- Economist, Viet-Nam Adv. Group, Saigon, 57-59; guest lectr, For. Serv. Inst, 65- Consult, U.S. Senate Small Bus. Cmt, 56-57; Inst. Defense Anal, 62- U.S.A, 42-47, 1st Lt. Econ. Asn. Economic development; Far Eastern economies; government and business including public utilities; American economic history. Publ: The small world of Khanh Hau, Aldine, 64; Bituminous coal industry, In: Structure of American industry; Social and economic characteristics of the work force in Saigon, In: Problems of freedom. Address: International Bank for Reconstruction & Development, 1818 H St. N.W, Washington, D.C. 20433.

HENDRY, DR. JEAN C(LARE), b. Chicago, Ill, Dec. 20, 23; m. 60. ANTHROPOLOGY. B.S, Northwestern, 48; Sigma Xi fel, Cornell, 49-50, M.A, 52, Ph.D, 57; Doherty Found. fel. from Cornell, Mex, 54-55. Spec. consult. Asian flu study, U.S. Pub. Health Serv, 57-58; asst. prof. anthrop. & sociol, Boston, 58-64; ASSOC. PROF. ANTHROP, EMMANUEL COL.(MASS), 65- Spec. auditor ling, Harvard, 64-65; vis. asst. prof, Brandeis, 65-66. Anthrop. Asn. Significance of mask carving as a form of nativism among modern Iroquois Indians; social and psychological aspects of pottery making in a Mexican village. Publ: Epidemic impact on community agencies, In: Impact of Asian influenza on community life. Address: Dept. of Anthropology, Emmanuel College, The Fenway, Boston, Mass. 02115.

HENEMAN, DR. H(ARLOW) J(AMES), b. Minn, Feb. 12, 06; m. 28; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Minnesota, 28; M.A, California, 30; Northwestern, 31; Ph.D.(polit. sci, econ), London, 34. From instr. to assoc. prof. polit. sci, Michigan, 33-42; spec. asst. to asst. secy. occupied areas, U.S. Dept. State, 46-47, dir. mgt. staff, 50-52; PARTNER, CRESAP, McCORMICK & PAGET, 54- Mgt. analyst, U.S. Bur. Budget, 44-45. Consult, U.S. atomic energy rep, UN, 47. Mem. bd. trustees, Nat. Planning Asn; New Col; Am. Symphony Orchestra League. Comparative law; business, health and educational administration. Publ: Co-auth, Professional practices in management consulting, 59; co-auth, The arts: a central element of a good society, 65; co-auth, The arts: planning for change, 66. Address: 245 Park Ave, New York, N.Y. 10017.

HENEMAN, PROF. HERBERT G(ERHARD), JR, b. Lester Prairie, Minn, Dec. 2, 16; m. 40; c. 3. ECONOMICS. B.B.A, Minnesota, 38, A.M, 43, Soc. Sci. Res. Coun. fel, 46-47, Ph.D, 48. Chief acct, Midland Co-op. Wholesale, Minn, 38-40; res. assoc, employ. stabilization res. inst, MINNESOTA, 40-42, instr, SCH. BUS. ADMIN, 42-44, assoc. prof. ECON. & INDUST. RELS, 50-54, PROF, 54-, CHMN. DEPT. INDUST. RELS, 61-, DIR. INDUST. RELS. CENTER 61-, asst. dir, 47-61. U.S.N, 44-46. Econ. Asn. Industrial relations, labor markets and mobility; local labor market research. Publ: Labor economics and industrial relations; Employment relations research; co-auth, Labor economics, South-Western Pub, 65. Address: Industrial Relations Center, University of Minnesota, Minneapolis, Minn. 55455.

HENIG, PROF. HARRY, Econ, see 10th ed, Soc. & Behav. Vols.

HENKEN, PROF. BERNARD SAMUEL, b. U.S, May 30, 19; m. 53; c. 2. PSYCHOLOGY. B.S, Harvard, 47; M.S, Purdue, 50; Boston, 50-52; Sci.D, Calvin Coolidge Col, 55. Staff psychologist, Carney Hosp, 50-52; chief speech dept. & staff psychologist, Audiol. Center, Mass, 51-55; CHIEF GUID. SERV, BRUSCH MED. CENTER, CAMBRIDGE, 55-; PROF. PSYCHOL. & CRIMINOL, CALVIN COOLIDGE COL, 58- Clin. counsr. & speech pathologist, Alfano Med. Inst, 56-; speech pathologist, Everett Pub. Schs, 58-, clin. counsr. & psychologist, 59-; psychologist, Wakefield Med. & Ed. Center, clin. counsr. & psychologist, North Shore Babies & Childrens Hosp. & Speech & Hearing Clin. & clin. counsr. & speech pathologist, Inst. Behav.

Sci, 66-; speech pathologist, Normandy House extended care facility, 66- Consult, Malden Court, Mass, 51-59. U.S.A, 42-45. Speech & Hearing Asn; Personnel & Guid. Asn; Psychol. Asn; Asn. Clin. Counsr.(pres, 59-63). Psychodrama with adolescent stutters; suicide problems; criminal pathology, particularly in the area of sexual deviates. Publ: Treatment of depression, new techniques and therapy; American practitioner and digest of treatment; A proposal for a graduate program in clinical counseling, Am. Asn. Clin. Coun, 65. Address: 118 Waverly Ave, Melrose, Mass. 02176.

HENKER, DR. FRED OSWALD, III, b. Little Rock, Ark, Sept. 20, 22; m. 45; c. 2. PSYCHIATRY. B.S, Arkansas, 44, M.D, 45. Chief PSYCHIAT, Vet. Admin. Hosp, Jackson, Miss, 57-58; instr, UNIV. ARKANSAS MED. CENTER, 58-61, asst. prof, 61-65, ASSOC. PROF, 65-, CHIEF CONSULTATION SERV, 64- Clin. instr, Mississippi, 57-58. U.S.P.H.S.R, Surg. Am. Med. Asn; Psychiat. Asn; Acad. Psychosom. Med; Acad. Relig. & Ment. Health. Marriage counseling; psychosomatic medicine. Publ: Domestic discord and the doctor, J. Ark. Med. Soc, 64; Female genital surgery and mental illness, South. Med. J, 64. Address: University of Arkansas Medical Center, 4301 W. Markham, Little Rock, Ark. 72201.

HENLE, PROF. MARY, b. Cleveland, Ohio, July 14, 13. PSYCHOLOGY. A.B, Smith Col, 34, A.M, 35; Ph.D.(psychol), Bryn Mawr Col, 39. Asst. psychol, Smith Col, 35-36; demonstr, Bryn Mawr Col, 36-39; instr, 42-44; res. assoc, Swarthmore Col, 39-41; instr, Delaware, 41-42; mem. psychol. faculty, Sarah Lawrence Col, 44-46; asst. prof, GRAD. FACULTY, NEW SCH. SOC. RES, 46-48, assoc. prof. PSYCHOL, 48-54, PROF, 54- Guggenheim fel, 51-52, 60-61; res. fel. cognitive studies & lectr. soc. rel, Harvard, 63-64. Sr. scholar, eval. proj, Ed. Serv, Inc, Mass, 64-65, consult, 65-67. AAAS; fel. Psychol. Asn. Cognitive processes; personality theory; systems. Address: Dept. of Psychology, New School for Social Research, 66 W. 12th St, New York, N.Y. 10011.

HENLE, PETER, b. New York, N.Y, Feb. 12, 19; m. 41; c. 3. ECONOMICS, STATISTICS. B.A, Swarthmore Col, 40; M.A, American Univ, 47. Asst. dir. res, Am. Fedn. Labor, 46-55; Am. Fedn. Labor & Cong. Indust. Orgn, 55-61; asst. cmnr, BUR. LABOR STATIST, U.S. DEPT. LABOR, 61-62, spec. asst. to cmnr, 62-66, CHIEF ECONOMIST, 66- V.chmn, Fed. Statistics Users Conf, 56-59, chmn, 59-60. U.S.A.A.F, 41-45, Maj. Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn. Unemployment; collective bargaining, relation of wages and prices. Publ: Chap. In: Structure of collective bargaining; A chronicle of trade union positions on government ownership, 7/65 & Leisure and the long workweek, 7/66, Monthly Labor Rev. Address: 3219 N. Wakefield St, Arlington, Va. 22207.

HENLEY, DR. DAVID E(LIAS), Sociol, see 10th ed, Soc. & Behav. Vols.

HENLEY, DR. GORDON H(ENRY), b. Toronto, Ont, Can. Apr. 26, 22; m. 52; c. 3. COUNSELING, EDUCATIONAL PSYCHOLOGY. B.A, Toronto, 49, M.A, 51; Can. Soc. Sci. Res. Coun. fel, Ohio State, 52-55, Ph.D.(psychol), 55. Staff psychologist, Dept. Reform Insts, Ont, Can, 50-52; asst. psychol, Ohio State, 52-54, asst. instr, 54-55; chief psychologist, Div. Ment. Health Servs, N.B, Can, 55-56; asst. prof. ed. psychol, Nebraska, 56-58, assoc. prof, 58-62, vis. prof. psychol, Victoria, 62-63; prof, Central Michigan, 63-65; prof. & chmn. dept, Alma Col, 65-67; COORDINATOR COUNSELING PSYCHOL, VET. ADMIN. HOSP, 67- Vis. prof, New Brunswick, 55-56; assoc. prof, St. John's (Minn), 67- Consult, Greater Victoria Bd. Health, B.C, 62-63. Mem, Mich. Gov. Taskforce on Ment. Health Manpower, 64-65; Minn. Gov. Cmn. Employment Handicapped Persons, 67- Can. Army, 43-45, Sgt. AAAS; Psychol. Asn; Asn. Counsr. Ed. & Supv; Personnel & Guid. Asn.(chmn. res. awards cmt, 59-60). Counseling process; rehabilitation, school and college counseling; vocational development theory; self-concept theory. Address: Veterans Administration Hospital, St. Cloud, Minn. 56301.

HENNES, DR. JAMES D(AVID), b. Seattle, Wash, Apr. 27, 33; m. 55; c. 3. EDUCATION, STATISTICS. A.B, Washington, 55; M.S, Boston, 59; Ph.D. (commun), Illinois, 66. Res. assoc, off. instructional resources, Univ. Illinois, 63-65, res. assoc. statist. serv. unit, 65-66; ASST. PROF. COMMUNITY HEALTH, MISSOURI, 66- U.S.N, 55-58, Lt. Ed. Res. Asn; Statist. Asn. Educational and health research involving research design, methodology, evaluation theory, statistics and measurement, and curriculum and instructional objectives. Publ: The Illinois television project for the gifted, Am. Sch. Bd. J, 65; co-auth, Attitude intensity and the semantic differential, J. Personality & Soc. Psychol, 65. Address: Program Evaluation Center, School of Medicine, University of Missouri, Columbia, Mo. 65201.

HENNESSEY, PROF. JOHN W(ILLIAM), JR, b. Danville, Pa, Mar. 25, 25; m. 48; c. 2. BUSINESS ADMINISTRATION. A.B, Princeton, 48; M.B.A, Harvard, 50; D.B.A, Washington (Seattle), 56; hon. M.A, Dartmouth Col, 60. From instr. to assoc. prof. human rel. & admin. practices, col. bus. admin, Washington (Seattle), 50-57; PROF. ADMIN. & ORGN, AMOS TUCK SCH. BUS. ADMIN, DARTMOUTH COL, 57-, DEAN, 68-, assoc. dean, 62-68. Prof, Inst. Studies of Methods Direction Enterprise, Switz, 59. U.S.A, 41-44, Lt. Sociol. Asn; Soc. Appl. Anthrop; Indust. Rels. Res. Asn. Organization theory; industrial sociology; decision-making. Publ: Co-auth, Organizational behavior; co-auth, Hospital policy decisions, Putnam, 64. Address: 4 Webster Terrace, Hanover, N.H. 03755.

HENNESSEY, DR. TIMOTHY MARTIN, b. U.S, Dec. 21, 37; m. 62; c. 1. POLITICAL SCIENCE. A.B, Brown, 60; Ph.D.(polit. sci), North Carolina, Chapel Hill, 68. Instr. Russian hist, Wilbraham Acad, Mass, 60-63; ASST. PROF. POLIT. SCI, MICH. STATE, 67- Nat. Defense Ed. Act. lectr, civics inst, North Carolina, summer, 68. Polit. Sci. Asn; Asn. Pub. Opinion Res. Sources of political attitude configurations among samples of youth in Italy, Ireland and England; psychological predispositions among state legislators as predictors of role call voting behavior. Address: Dept. of Political Science, Michigan State University, East Lansing, Mich. 48823.

HENNESSY, PROF. BERNARD C(HARLES), b. Oneida, N.Y, Nov. 2, 24; m. 47; c. 3. POLITICAL SCIENCE. A.B, Syracuse, 48, A.M, 49; London Sch. Econ, 53-54; Ph.D, Wisconsin, 55. Instr. govt, Arizona, 54-55, asst. prof, 55-59, assoc. prof, 59-61; DIR, NAT. CENTER ED. IN POLIT, 61-; PROF. POLIT. SCI. & HEAD DEPT, PA. STATE, 66- Ford Found. fel, Mass. Inst. Tech, 56-57; Democratic Nat. Cmt. fel, 59-60. U.S.N.R, 42-46. AAAS; Polit. Sci. Asn. Politics and political behavior; public opinion; American political parties and political interest groups. Publ: Co-auth, Politics without power: the national party committees, Atherton, 64; auth, Public opinion, Wadsworth, 65; Politicals and apoliticals: some measurements of personality traits, Midwest J. Polit. Sci. Address: Dept. of Political Science, Pennsylvania State University, University Park, Pa. 16802.

HENNIGAR, DR. LEWIS ALBRO, b. Rumford, Maine, July 12, 08; m. 30; c. 2. PSYCHOLOGY, PHILOSOPHY. B.A, Acadia, 30; Harvard, 31-32; B.D, Andover Newton Theol. Sch, 33, S.T.M, 45; Anderson Col, 49-57; Jacobus fel, Hartford Seminary Found, 48-49, Ph.D.(New Testament), 49. Teaching scholar. classics, Acadia, 29-31; vis. lectr. psychol, Andover Newton Theol. Sch, 44-48; asst. prof. philos. & psychol, ANDERSON COL, 49-50, assoc. prof, 50-56, prof. philos. & psychol. & dir. psychol. clin, 57-66, CHMN. DEPT. PHILOS. & PSYCHOL, 57- Fel, Chicago, 52; Nat. Sci. Found. summer award, Univ. Iowa, 62. Trainee, Purdue & Vet. Admin. Hosp, Marion, Ind, 63-64; clin. psychologist, Vet. Admin. Hosp, Marion, 64- AAAS; Psychol. Asn. Psychodiagnostics and psychotherapy. Address: 169 Nursery Rd, Anderson, Ind. 46012.

HENNING, PROF. CHARLES N(ATHANIEL), b. Pittsburgh, Pa, June 20, 15; m. 45. ECONOMICS. B.A, California, Los Angeles, 38, M.A, 40, Ph.D. (econ), 53. Economist, off. int. trade, U.S. Dept. Commerce, 42-48; asst. prof. for. trade & finance, GRAD. SCH. BUS. ADMIN, WASHINGTON (SEATTLE), 48-53, assoc. prof. FINANCE, 53-55, PROF, 55-, ED. UNIV. WASH. BUS. REV, 54-, DIR. BUS. ADMIN. FACULTY PUBS, 61- Lectr, for. transportation insts, American Univ, 46, 48. Consult, opers. res. off, Hopkins, 52-60; Res. Anal. Corp, 61-67; adv, Pac. Coast Banking Sch, 59- U.S. del, Int. Conf. Trade & Employ, Switz, 47. Econ. Asn; Finance Asn; Acad. Polit. & Soc. Sci. Money and banking; business research; economic problems of the Far East. Publ: International finance, Harper, 58; co-auth, Money, financial institutions and the economy, Prentice-Hall, 65; Taiwan civil affairs handbook. Address: 12714 42nd Ave. N.E, Seattle, Wash. 98125.

HENNING, DALE R, b. Everett, Wash, June 22, 31; m. 59. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Luther Col.(Iowa), 53; M.A, Iowa, 60; Wisconsin, 62-65. Res. assoc. archaeol, MISSOURI, 58-59, dir. mus. anthrop, 59-62, INSTR. ANTHROP & DIR. AM. ARCHAEOL, 65- U.S.A, 53-55, S/Sgt. Soc. Am. Archaeol; Am. Anthrop. Asn. Midwest-plains archaeology; prehistoric climatology; cultural ecology; culture contact situations. Publ: Oneota ceramics in Iowa, J. Iowa Archaeol. Soc, 61; Mississippian influences on the Eastern plains border: an evaluation, Plains Anthropologist, 67. Address: Dept. of Anthropology, 15 Switzler Hall, University of Missouri, Columbia, Mo. 65201.

HENNING, DR. DANIEL HOWARD, b. Cleveland, Ohio, Aug. 1, 31. POLITICAL SCIENCE, NATURAL RESOURCES. B.S, Bowling Green State, 57; M.S, Michigan, 59; Nat. Wildlife Fedn. fels, Syracuse, 59 & 63, D.S.Sc.(polit. sci), 65. Res. writer nat. parks, int. cmn. nat. parks, Int. Union Conserv. Nature, 60-61; teacher, high sch, Haiti, 61-62; ASST. PROF. POLIT. SCI, EAST. MONT. COL, 66- Fels, Wildlife Mgt. Inst, Welder Wildlife Found. & Resources for Future, 65. Summers, park ranger naturalist, Rocky Mt, Yellowstone & Glacier Nat. Parks, 57-60, 62, 65-67, res. collaborator, Rocky Mt. Nat. Park, 63-64. U.S.C.G, 51-54. Wilderness Soc; Conserv. Ed. Asn. Public administration of natural resources, especially recreation. Publ: Co-auth, United Nations list of national parks and equivalent areas, UN, 61; auth, Wilderness and conservation education, Detroit Sci. Rev, 2/59; Wilderness—its meaning to man, Naturalist, spring 67. Address: Dept. of Political Science, Eastern Montana College, Billings, Mont. 59101.

HENNING, DR. G(EORGE) F(REDERICK), b. Defiance Co, Ohio, Nov. 30, 96; m. 22; c. 1. AGRICULTURAL ECONOMICS. B.S, Ohio State, 20, M.S, 25, Ph.D.(agr. econ), 33. County agr. agent, Ohio Agr. Exten. Serv, 20-24; assoc. prof. AGR. ECON, OHIO STATE & assoc. agr. economist, agr. exp. sta, 25-51, from prof. & agr. economist to EMER. PROF, 51- U.S.A, 18. Agr. Econ. Asn. Agricultural marketing, cooperation and business management; improved system of buying hogs for eastern corn belt; improvement of the financial structure of agricultural business organizations and an improved structure of livestock markets in the corn belt. Publ: Financial structure of agricultural business organizations. Address: 3821 Kioka Ave, Columbus, Ohio 43221.

HENRICHS, DR. THEODORE F(RED), b. Evanston, Ill, Apr. 1, 32; m. 53; c. 4. PSYCHOLOGY. B.S, Northwestern, 53; M.A, Ohio, 57; Ph.D.(psychol), North Carolina, 61. Instr. psychol, North Carolina, 60-61; psychologist, Mendota State Hosp, Madison, Wis, 61-62; asst. prof. PSYCHOL, SCH. MED, MISSOURI, 62-67, ASSOC. PROF, 67- Psychol. Asn. Objective personality assessment; psychotherapy. Publ: The effects of brief sensory reduction on objective test scores, 19: 172-176 & Objective configural rules for discriminating MMPI profiles in a psychiatric population, 20: 157-159, J. Clin. Psychol; Methoden der Profilanalyse mit dem MMPI, Diagnostica, 1: 3-15. Address: University of Missouri Medical Center, Columbia, Mo. 65201.

HENRICKSON, PROF. G. REX, Econ. Geog, see 10th ed, Soc. & Behav. Vols.

HENRIKSON, PROF. ERNEST H(ILMER), Speech Pathol, see 11th ed, Phys. & Biol. Vols.

HENRIOT, DR. PETER J(OSEPH), S.J, b. Tacoma, Wash, Apr. 14, 36. POLITICAL SCIENCE. B.A, St. Louis, 62, M.A, 63; Ph.D.(polit. sci), Chicago, 67. LECTR. POLIT. SCI, SEATTLE, 67- Summers, vis. lectr, Gonzaga, 63 & 64, mem. vis. staff, Hampton Inst, 67 & vis. fel, Cambridge Center Soc. Studies, 68. Polit. Sci. Asn. Use of social indicators in urban political decision-making; metropolitan government organization; state legislative reapportionment; American political theory. Publ: The coincidence of political and religious attitudes, Rev. Relig. Res, fall 66; Reapportionment revolution, America, 11/66. Address: Dept. of Political Science, Seattle University, Seattle, Wash. 98122.

HENRY, PROF. ARNOLD K(AHLE), b. Marienville, Pa, Feb. 5, 98. ECONOMICS. B.S, Pennsylvania, 21, A.M, 24, Ph.D, 29. Instr, PENNSYLVANIA, 22-30, asst. prof, 30-37, assoc. prof. TRANSPORTATION & PUB. UTILITIES, 37-47, PROF, 47-, asst. dir. student personnel, 22-34, field secy, 34-35, dir. admissions, 36-39, dean student affairs, 39-53, v.provost, 53-56. Panama Canal and the intercoastal trade; transportation by water. Publ: Co-auth, Transportation and traffic management, Alexander Hamilton Inst, 62. Address: Dietrich Hall, University of Pennsylvania, Philadelphia, Pa. 19104.

HENRY, DR. BILLY W(ENDELL), b. Texarkana, Tex, July 6, 29. MEDICINE. B.A, Texas, 50, M.D, 54. Intern, HOSPS, MED. BR, TEXAS, 54-55, res. NEUROL. & PSYCHIAT, 55-58, instr, 58, ASST. PROF, 60-, DIR, NEURO-PSYCHIAT. OUT-PATIENT CLINIC, 58, 60- Psychiat. consult, County Health Dept, Galveston, 58, 60-; Richmond State Sch. Ment. Retardation, 68- Psychiatrist, hosp, Sheppard Air Force Base, Texas, Med.C, 58-60, Capt. Am. Med. Asn; Psychiat. Asn; Med. Correctional Asn. Adult and forensic psychiatry; computer-based clinical drug research. Publ: Co-auth, Self-improving computer-based outpatient treatment program, Proc. Am. Psychiat. Asn. Annual Meeting, 67. Address: Dept. of Neurology & Psychiatry, University of Texas Medical Branch, Galveston, Tex. 77550.

HENRY, DR. CHARLES E(RIC), Neurophysiol, see 11th ed, Phys. & Biol. Vols.

HENRY, PROF. EDWARD L(eROY), b. St. Cloud, Minn, Mar. 30, 21; m. 47; c. 9. POLITICAL SCIENCE, BUSINESS ADMINISTRATION. A.B, St. John's (Minn), 43; Harvard, 43-44; M.A. & M.B.A, Chicago, 48, Hillman fel, 50-51, Ph.D.(polit. sci), 55. Asst. prof. polit. sci. & econ, Mt. St. Scholastica Col, 48-50, assoc. prof, 51-54, asst. to pres. for develop, 52-54; assoc. prof. POLIT. SCI, ST. JOHN'S (MINN), 54-58, PROF, 58-, CHMN. DEPT, 54-, asst. to pres, 60-64. Lectr, St. Benedict's Col, 48-50; dir. tri-col. prog, St. John's (Minn), St. Cloud State Col. & Col. St. Benedict (Minn), 58-67; lectr, Cmt. Econ. Develop, 67. Invest. consult, 55- Mayor, St. Cloud, Minn, 64- Mem. develop. bd, Kans. Found. Private Cols, 52-54; St. Cloud Pub. Sch. Bd, 57-64; White House Youth Conf, 60; Minn. Adv. Cmn. Human Rights, 58-63; v.chmn, Minn. Munic. Cmn, 65-67. U.S.N, 43-46, Lt.(jg). Polit. Sci. Asn; Econ. Asn. Public administration; relationship of the Federal Reserve Board to the other agencies and branches of government in shaping credit control policies. Publ: Farmers' tax burden, Nat. Tax J; Struggle for objectives of Federal Reserve policy, Rev. Soc. Econ; Democracy in underdeveloped nations, Am. Cath. Sociol. Rev. Address: Dept. of Political Science, St. John's University, Collegeville, Minn. 51321.

HENRY, PROF. E(DWIN) R(UTHVAN), b. Hutchinson, Kans, Mar. 17, 05; m. 32; c. 2. PSYCHOLOGY. B.S, Kans. State Teachers Col, 28; scholar, Ohio State, 28-29, M.A, 29, Ph.D.(psychol, statist), 31; Columbia, 41; N.Y. Univ, 42-43. Asst. prof. psychol. & chmn. dept, N.Y. Univ, 31-47, adj. prof, 48-52; coordinator personnel res, Standard Oil Co.(N.J), 48-50, adv. employee rel. res, 50-67; PROF. BUS. ADMIN, ROCHESTER, 67- Spec. exam, bd. exam, Bd. Ed, New York, 34-35; State Civil Serv. Cmn, N.J, 36-43; vis. prof, New Mexico, 39; chief, consumer div, Off. Civilian Defense, N.Y, 41-43; v.pres. & dir, Richardson, Bellows, Henry & Co, 45-50, chmn. bd, 68-; chief personnel res, Adj. Gen's Off, U.S. War Dept, 43-47; dir. selection, U.S. Peace Corps, 63-64. Psychol. consult, 31-43; expert consult, Secy. War, 47-50; consult, U.S.A.A.F, & U.S.N, 47-52; sr. adv, Richardson Found, N.C, 66- Dir. & v.pres, Am. Bd. Exam. Prfnl. Psychol, 57-61; v.chmn. adv. cmt, U.S. Employment Serv, Dept. Labor, 66- AAAS; Psychol. Asn; Psychomet. Soc; Interam. Soc. Psychol; World Asn. Pub. Opinion Res. Applications of social science research in management; psychological measurement in industrial personnel administration; morale and productivity. Publ: Co-auth, Handbook of applied psychology & An outline of general psychology. Address: 428 Demarest Ave, Oradell, N.J. 07649.

HENRY, DR. FRANCES, b. Kassel, Germany, Dec. 24, 31; U.S. citizen; m. 60; c. 1. SOCIAL ANTHROPOLOGY. B.A, Brooklyn Col, 53; M.A, Ohio State, 55, Ph.D.(anthrop), 58. Instr. anthrop, Colorado, 56-58; fel, Harvard, 58-59; lectr, McMaster, 61-62; ASSOC. PROF. SOC. & ANTHROP, McGILL, 63- Nat. Inst. Ment. Health grants, Trinidad, 58 & 60; fel, dept. soc. rels, Harvard, 59; Centre Develop. Areas grant, Trinidad, 65. Consult, Can. Univs. Oversees Serv, 65. Fel. Anthrop. Asn. Political change in the West Indies; religious cults and stratification in Trinidad. Publ: Co-auth, Stress and response in fieldwork, Holt, 68; auth, The role of the fieldworker in an explosive political situation, Current Anthrop, 12/66 & The West Indian domestic scheme in Canada, Soc. & Econ. Studies, 3/68. Address: Dept. of Sociology & Anthropology, McGill University, Montreal, Que, Can.

HENRY, DR. FRANKLIN JAMES, b. Wisconsin Rapids, Wis, Oct. 17, 28; m. 51; c. 7. SOCIOLOGY. Ph.B, Marquette, 51; Ph.D.(sociol), Catholic Univ, 58. Instr. SOCIOL, Nazareth Col.(Mich), 55-58; asst. prof, John Carroll, 58-63; McMASTER, 63-65, ASSOC. PROF, 65- Statist. Asn; Sociol. Asn; Can. Sociol. & Anthrop. Asn. Survey research; demography. Publ: An empirical study of the relationships of Catholic practice to fertility, Milbank Mem. Fund Quart, 58; Perception of discrimination among Negroes and Japanese—Canadians in Hamilton, Ont. Human Right Cmn, 65. Address: Dept. of Sociology, McMaster University, Hamilton, Ont, Can.

HENRY, PROF. FRANKLIN M(ELVILLE), Psychol, see 10th ed, Soc. & Behav. Vols.

HENRY, G(ENE) P(ATRICK), b. Dundee, Ill, Nov. 16, 20; m. 43; c. 2. ECONOMICS. B.A, Hamline, 42; Georgetown, 47-48. Intern, Nat. Int. Pub. Affairs, Wash, D.C, 42-43; ECONOMIST, U.S. TARIFF CMN, 43-47, 48- Consult, House Select Cmn. For. Aid, 47; economist, Cent. Intel. Agency, 47-48. U.S.N, 43-46. International trade and finance; commercial policy. Publ: Economic controls and commercial policy in El Salvador; Mining and manufacturing industries in Brazil; Post-war developments in the foreign trade of Japan. Address: 10914 New Hampshire Ave, Silver Spring, Md. 20903.

HENRY, DR. H. GEORGE, b. Guantanamo, Cuba, Dec. 31, 22; m. ECONOMICS. B.A, London Sch. Econ, 58; M.A, Cornell, 60, Ph.D.(econ), 64. Head teacher, elem. schs, Jamaica, W.I, 45-54, asst. supt, voc. schs, 54-55, Latin master, sec. sch, 55-57; Smith-Mundt vis. prof. ECON, Pius XII Col, Basutoland, South. Africa, 62-63; asst. prof, Lincoln (Pa), 64-66; ASSOC. PROF, LOWELL TECH. INST, 66- Econ. Asn; fel. African Studies Asn; Acad. Polit. & Soc. Sci. Economic development of Subsaharan Africa. Publ: Co-auth, Lesotho, Botswana and Swaziland, Pall Mall Press, London, 67. Address: Dept. of Economics, Lowell Technical Institute, Lowell, Mass. 01854.

HENRY, DR. HAROLD WILKINSON, b. Maryville, Tenn, July 22, 26; m. 49; c. 5. INDUSTRIAL MANAGEMENT. B.S, Maryville Col.(Tenn), 48; M.S, Tennessee, 59; Ph.D.(bus. admin), Michigan, 65. Teacher, high sch, Tenn, 50-52; from sr. lab. technician to assoc. physicist, Union Carbide Nuclear Co, 52-58, from assoc. spec. hazards engr. to assoc. health physicist, 58-60; from radiation physicist to bus. & safety coordinator, Phoenix Mem. Lab, University Michigan, 60-64; asst. prof. INDUST. MGT, TENNESSEE, 65-66, ASSOC. PROF, 66- Vis. lectr, Eastern Michigan, 62; lectr, col. bus. admin, Michigan, 64-65. Mem. staff aerospace tech. & tech. mgt, Marshall Space Flight Center, NASA, 67, 68. Consult, Nuclear Div, Union Carbide Corp, 65-67; Steel City Div, Midland-Ross Corp, 66. Dipl, Am. Bd. Health Physics, 64. U.S.N, 44-46, 47. Inst. Mgt. Sci; Health Physics Soc. Corporation long-range planning organization and administrative procedures; organization theory, research and development management, performance evaluation. Publ: Long-range planning practices in 45 industrial companies, Prentice-Hall, 67; Performance evaluation of scientists, Mgt. of Personnel Quart, 62; Fiscal policy—a tool of economic stabilization, Tenn. Surv. Bus, 66. Address: Dept. of Industrial Management, University of Tennessee, Knoxville, Tenn. 37916.

HENRY, PROF. JAMES THURMAN, b. St. Louis, Mo, Sept. 20, 10; m; c. 12. GEOGRAPHY. B.S, Illinois, 33, M.A, 38. From asst. to ASSOC. PROF. GEOG, Wilberforce, 35-47; CENTRAL STATE, 47-, CHMN. EARTH SCI. DEPT, 67-, chmn. cmt. first student coun, 42, cmt. self-study, 58-60, acting chmn. dept. hist, 47-48, depts. hist, polit. sci. & geog, 58-59. Summers, vis. prof, Ala. State Col, 37, 39, Morgan State Col, 40, Fla. Agr. & Mech, 50, 52 & 55, distinguished scholar, Ford Found. faculty seminar on Far East, Michigan, 66, personnel mgt. consult, Newark Air Force Sta, Ohio, 67. City cmnr, Xenia, Ohio, 53, 57, 61 & 65. Asn. Am. Geog; Nat. Coun. Geog. Ed. West Africa and its future. Publ: Geopolitical problem of Russia, J. Human Rels. Address: Dept. of Geography, Central State University, Wilberforce, Ohio 45385.

HENRY, DR. JEANNE PEARLSON, b. Cambridge, Mass, Aug. 26, 19; m. 57; c. 1. ECONOMICS. B.S, Mass. Inst. Tech, 40; scholar, Columbia, 44-45; Whitney fel, Radcliffe Col, 45-46, A.M, 47, Ph.D.(econ), 53. Instr. econ, Connecticut, 47-48; bus. statist, Pa. State, 50-51; lectr. econ, Hofstra Col, 53-54; economist, Int. Statist. Bur, Inc, N.Y, 54-55; sr. economist, Allied Chem. & Dye Corp, 55-57; asst. prof. econ, American Univ, 57-58, adj. prof, 59-61; independent res, 61-65; lectr. bus, SCH. BUS, SAN JOSE STATE COL, 65-67, ASSOC. PROF. BUS, 67- Dir. res, Ben Sackheim Advert. Agency, 53-54; lectr, Trinity Col.(D.C), 59-60; part-time lectr, San Jose State Col, 64-65. Econ. Asn; Statist. Asn; Economet. Soc. Labor economics; economic statistics; business research and forecasting; econometrics. Address: Dept. of Marketing, School of Business, San Jose State College, San Jose, Calif. 95114.

HENRY, DR. JOHN FREDERICK, b. Anniston, Ala, Mar. 2, 31; m. 54; c. 3. INDUSTRIAL MANAGEMENT, BUSINESS ADMINISTRATION. B.S, Auburn, 54; M.S, Ga. Inst. Tech, 57; Ph.D.(bus. admin), Alabama, 64. Instr. mkt, Ga. Inst. Tech, 56-57; asst. prof. indust. mgt, Auburn, 57-58; instr. mgt, Alabama, 58-59; asst. prof. indust. mgt, AUBURN, 59-64, ASSOC. PROF. BUS. ADMIN, 64- U.S.N, 54-56, Lt. Soc. Adv. Mgt. Management practices in Alabama industries. Publ: Methods of investment analysis, Ala. Forest Prod. Asn, 67; co-auth, Investment decisions in wood product firms, Exten. Serv. Auburn Univ, 68. Address: Dept. of Economics & Business Administration, Auburn University, Auburn, Ala. 36830.

HENRY, PROF. JULES, b. New York, N.Y, Nov. 29, 04; m. 34; c. 1. ANTHROPOLOGY. B.S, City Col. New York, 28; Ph.D.(anthrop), Columbia, 36. Asst. anthrop, Columbia, 34-36, 38-39, Coun. Res. Soc. Scis. fel, 36, univ. fel, 36-37; prof, Nat. Polytech. Inst, Mex, 40-41; study dir. & interviewer, div. prog. surys, U.S. Dept. Agr, 42; study dir, surys. div, Off. War Info, 42-43; chief, Brazilian sect, Off. Inter-Am. Affairs, 43-44; anal. sect, morale div, U.S. Strategic Bombing Surv, Pac, 45-46; Latin-Am. Sect, U.S. Bur. Labor Statist, 46-47; assoc. prof. ANTHROP, WASHINGTON (ST. LOUIS), 47-56, PROF, 56- Linguist, Dept. Indian Affairs, Mex, 40; hon. prof, Michoacan, Mex, 40; vis. prof, Chicago, 53-55; res. assoc, Sonia Shankman Orthogenic Sch, Chicago, 53-59; fel, Center Adv. Study Behav. Sci, 66-67. Consult, sch. nursing, Washington (St Louis), 56-62; World Health Orgn, Copenhagen, 58; Nat. Inst. Ment. Health; Vet. Admin. Hosp, North Little Rock, Ark. Fel. AAAS; fel. Anthrop. Asn. Personality and culture; emotional problems of children; social structure and function; cultural factors in learning; education of the deprived Negro child; youth. Publ: Jungle people; Doll play of Pilaga Indian children; Culture against man. Address: Dept. of Sociology-Anthropology, Washington University, St. Louis, Mo. 63130.

HENRY, DR. LAURIN L(UTHER), b. Kankakee, Ill, May 23, 21; m. 46; c. 2. POLITICAL SCIENCE. B.A, DePauw, 42; M.A, Chicago, 48, Ph.D, 60. Asst, Coun. State Govts, 49-50; staff asst, Pub. Admin. Clearing House, 50, 52-55; res. assoc, Brookings Inst, 55-61, mem. sr. staff, 61-64; PROF. GOVT. & FOR. AFFAIRS, VIRGINIA, 64- Exec. secy, Conf. Pub. Serv, 60-64; vis. lectr, Hopkins, 63-64. Consult, NASA, 61-62, U.S. Bur. Budget, 63-64; trustee, Inter-Univ. Case Prog, 64- U.S.N, 42-46. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; American politics; government policy for science and education. Publ: Presidential transitions; co-auth, Presidential election and transition. Address: 1613 Kenwood Lane, Charlottesville, Va. 22901.

HENRY, PROF. LYLE K(ENNETH), b. Farson, Iowa, May 27, 04; m. 27; c. 3. PSYCHOLOGY. B.S, Des Moines Col, 26; M.A, Iowa, 31, Ph.D.(psychol), 33. Prin, high sch, Iowa, 26-28, supt. schs, 28-30; asst. psychol, Iowa State Col,

31-32, instr, 36-42; ed. psychol, Iowa, 32-33; ed. adv, Civilian Conserv. Corps, 34-36; personnel consult, U.S. War Dept, Wash, D.C, 42-45; assoc. prof. psychol, Kentucky, 46-47; supt. schs, Yokohama Am. Sch, Japan, U.S. Army, 48-50, officer in charge, personnel mgt. team, Tex, 50-51, ed. adv, Adj. Gen. Sch, Ft. Benjamin Harrison, 52-56, from acting inspector gen. to dep. adj. gen,Hqs, Third Army, 56-59; PROF. PSYCHOL. & HEAD DEPT, MORNINGSIDE COL, 59- U.S.A, 47-59, Col. Psychol. Asn. Remedial reading procedures; analysis of reasoning in solving geometric originals; motivational factors in learning. Publ: Role of insight in the analytic thinking of adolescents; co-auth, Relation between frequency of testing and progress in learning psychology, J. Ed. Psychol; co-auth, Comparison of four methods of increasing the reading speed of college students, Proc. Iowa Acad. Sci. Address: Dept. of Psychology, Morningside College, Sioux City, Iowa 51106.

HENRY, PROF. ROBERT CHARLES, b. St. Cloud, Minn, Apr. 28, 29; m. 55; c. 4. POLITICAL SCIENCE, ECONOMICS. A.B, St. John's (Minn), 51; A.M, Minnesota, 53; B.S, St. Cloud State Col, 56; Kansas, 60-61, univ. fel, 65-66. Instr. polit. sci. & econ, Mt. St. Scholastica Col, 56-57, asst. prof, 57-59, assoc. prof, asst. to pres, 59-65; ASSOC. PROF. POLIT. SCI, ST. BENEDICT'S COL.(KANS), 65- U.S.A, 53-55. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. American national government; constitutional law; political theory; public administration. Address: 825 N. Seventh St, Atchison, Kans. 66002.

HENRY, PROF. TOBIAS F(RANCIS), b. New Enterprise, Pa, Dec. 7, 01. SOCIOLOGY. A.B, Juniata Col, 26; A.M, Pittsburgh, 34, Ph.D, 38. From asst. prof. to prof. SOCIOL, JUNIATA COL, 46-65, EMER. PROF, 65- Development of religious education in the Church of the Brethren in the United States. Address: Dept. of Sociology, Juniata College, Huntingdon, Pa. 16652.

HENRY, PROF. WILLIAM E(ARL), b. Holyoke, Mass, Nov. 14, 17. PSYCHOLOGY. B.A, Utah, 39; Ph.D.(human develop), Chicago, 44; California, 40-41. Instr, CHICAGO, 45-46, asst. prof. human develop, 47-49, assoc. prof. psychol, 49-58, PROF. PSYCHOL. & HUMAN DEVELOP, 59-, CHMN. DEPT, 53-58, 65-, res. assoc, cmt. human develop, 45-46. Consult, 45-; Nat. Inst. Ment. Health, 65- Fel. Psychol. Asn; Sociol. Asn; Soc. Appl. Anthrop; Geront. Soc. Projective techniques; psychological characteristics of modern society; child development; industrial and consumer psychology. Publ: The analysis of fantasy; co-auth, Growing old. Address: 5835 S. Kimbark Ave, Chicago, Ill. 60637.

HENRY, PROF. WILLIAM F(REDERICK), b. Ardmore, Pa, Mar. 6, 15; m. 43; c. 2. ECONOMICS. B.S, La. State, 40; M.S, Connecticut, 42; Hood Found. fel, Harvard, 49-50. Asst. agr. econ, Connecticut, 40-42, instr, 42-43, 45-50, asst. prof, 50-52, prof. agr. econ. & chmn. dept. resource econ, NEW HAMPSHIRE, 52-64, CHMN, RESOURCE DEVELOP. CENTER, 64- U.S.N.R, 43-45, Lt. Agr. Econ. Asn; Regional Sci. Asn; Can. Agr. Econ. Soc. Production and marketing economics, especially efficiency in assembly, processing and distribution of food products; regional economics. Publ: Economic interpretations of interregional competition, Univ. Connecticut, 54; Effects of firm size and production density on spatial costs, Univ. New Hampshire, 64; The New Hampshire economy, N.H. Dept. Resources & Econ. Develop, 68. Address: Resources Development Center, University of New Hampshire, Durham, N.H. 03824.

HENRY, PROF. WILLIAM RAY, b. Russellville, Ark, Dec. 30, 25; m. 55; c. 3. AGRICULTURAL ECONOMICS. B.S, Arkansas, 48, M.S, 53; Ph.D.(agr. econ), N.C. State Col, 57. Asst. prof. agr. econ, N.C. STATE, 56-59, assoc. prof, 59-66, PROF. ECON, 66- Nat. Broiler Coun. Travel fel, 65; pres, Agriplan, Inc. Contrib. ed, Broiler Indust. Mag. U.S.A.A.F, 44-45; Nat. Guard, 46-66. Agr. Econ. Asn.(awards, Farm Econ. Asn, 58, 61); Econ. Asn; Inst. Mgt. Sci. Poultry meat marketing; problems of organization and decision making in agricultural servicing and processing firms; economic forecasting. Publ: Co-auth, Economic aspects of broiler production density, J. Farm Econ, 2/60 & Optimum market age and average weight of broilers, Proc. World Poultry Cong, 8/66. Address: Dept. of Economics, North Carolina State University, Raleigh, N.C. 27606.

HENSHAW, DR. PAUL S(TEWART), Radiobiol, see 11th ed. Phys. & Biol. Vols. & Suppl. II.

HENSHAW, PROF. RICHARD C(HARLES), b. Houston, Tex, Jan. 20, 24; m. 49. STATISTICS. B.A, Rice, 47, M.B.A, Texas, 50, Ph.D.(bus. statist), 54. Statistician, bur. bus. res, Texas, 48-57, assoc. prof. bus. statist, 48-57; statist, Stanford, 57-58; PROF. QUANT. METHODS, MICH. STATE, 58- Res. dir, New Prod. Digest, 54-56; consult, Thomas F. Conroy, Inc, Tex, 54-55; prof-adv. to Turkish Acad. Econ. & Commercial Sci, 66- U.S.N, 43-46, Lt.(jg). Statist. Asn; Economet. Soc; Inst. Mgt. Sci. Economics of the natural gas industry; econometrics; operations research; management science; quantitative methods. Publ: Co-auth, The executive game, Irwin, 66; Application of the general linear model to seasonal adjustment of economic time series, 66 & Testing single-equation least squares regression models for autocorrelated disturbances, 66, Econometrica. Address: Michigan State University, Graduate School of Business Administration, East Lansing, Mich. 48823.

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HENSLEY, PROF. ROY J(AMES), b. Mo, May 2, 17; m. 46; c. 1. ECONOMICS. B.S, Oregon, 42; fel, California, 51-53, Ph.D.(econ), 55. Instr. bus. admin, California, Berkeley, 53-55, asst. prof. econ, sch. bus, 55-60, lectr, 62-63; prof. & res. economist, Indonesia, 60-62; assoc. prof. econ, Hawaii, 63-64; prof. econ, Lehigh, 64-66, chmn. dept. finance, 65-66; PROF. ECON. & CHMN. DEPT, MIAMI (FLA), 66- Summers, faculty res. grant, Lehigh Univ. for work in Mex, 65 & res. grant, N.Y. Univ. Nigerian Proj, Univ. Lagos, 66. U.S.N, 42-46, Lt. Am. Econ. Asn; Finance Asn; Royal Econ. Soc. International finance; industrial organization and public policy; economic development. Publ: Competition, regulation and the public interest in Nonlife Insurance; Economies of scale in financial enterprises, J. Polit. Econ; Development banks and economic development in Indonesia, Econ. Develop. & Cultural Change, 7/64. Address: Dept. of Economics, University of Miami, Coral Gables, Fla. 33124.

HENSSLER, PROF. FREDERICK W(OLFGANG), b. Germany, July 31, 05; nat; m. 40; c. 1. SOCIOLOGY. LL.B, Marburg, 26; Paris, 27-28; JS.D, Erlangen, 34; Northwestern, 38-39. Asst. philos, Marburg, 30-32; attorney at law, legal dept, Deutsche Bau & Bodenbank, 34-37; asst. prof. sociol, Elmhurst Col, 40-43; lectr, civil affairs training sch, Wisconsin, 43-44; consult, indust. rels, Berlin Indust. Bank, 49-50; assoc. prof. sociol, Upsala Col, 50-55; Gettysburg Col, 56-57; PROF. SOCIOL. & CHMN. DEPT. SOCIOL. & ANTHROP, WAGNER COL, 57- Sociol. Asn; Anthrop. Asn. Social organization; sociology of law and knowledge. Publ: Sociology of contract. Address: Dept. of Sociology, Wagner College, Grymes Hill, Staten Island, N.Y. 10301.

HEPBURN, PROF. CHARLES M, Am. Colonial Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HEPLER, PROF. J(AMES) WILLIAM, b. New Bethlehem, Pa, June 22, 26; m. 48; c. 2. PSYCHOLOGY. B.A, Allegheny Col, 49; M.A, Ohio, 50; Ph.D. (psychol), Ohio State, 53. Asst. Ohio State, 51-52, asst. instr, PSYCHOL, 52-53; assoc. prof, BUTLER, 53-65, PROF, 65-, HEAD DEPT, 65- U.S.A.A.F, 44-47. Psychol. Asn; Research Soc. Personnel selection; small group research. Publ: On the teaching of experimental psychology, Am. Psychologist. Address: Dept. of Psychology, Butler University, Indianapolis, Ind. 46207.

HEPNER, HARRY WALKER, b. Freeburg, Pa, Feb. 1, 93; m. 20; c. 1. PSYCHOLOGY. A.B, Muhlenberg Col, 16; Cornell, 16; Carnegie Inst. Tech, 18-19; M.A, Syracuse, 24; Harvard, 31. In charge personnel res, Kaufmann's Dept. Store, Pa, 18-19; asst. to personnel dir, Phila. Co. & Affiliated Corps, 19-20; personnel res, Goodyear Tire & Rubber Co, Ohio, 20-21; from instr. to prof. psychol, Syracuse, 21-59; CONSULT. PSYCHOL, 59- Dir. consumer res. panels, Batten, Barton, Durstine & Osborn, N.Y, 42-61. U.S.A, 17-19, Lt. Psychol. Asn; Mkt. Asn. Publ: Psychology applied to life and work; Perceptive management and supervision; Advertising—creative communication with consumers. Address: 206 Berkeley Dr, Syracuse, N.Y. 13210.

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HERBACH, DR. LEON H(OWARD), Statist, see 11th ed, Phys. & Biol. Vols.

HERBER, PROF. BERNARD P, b. Ottumwa, Iowa, Nov. 11, 29; m. 60. ECONOMICS, PUBLIC FINANCE. B.A, Loyola (Calif), 54; M.A, Arizona, 55; Ph.D.(econ), Washington (Seattle), 60. Instr. econ, Arizona, 57-59, asst. prof, 59-61; assoc. prof, Tex. West. Col, 61-62; asst. prof, ARIZONA, 62-64, assoc. prof. econ. & asst. dean col. bus, 64-67, PROF. ECON, 67- Found. Econ. Ed. fel, 61- Econ. Asn. Public finance; tax law enforcement; government and business; market structure changes and public utility regulation; American economic development. Publ: Modern public finance, Irwin, 67; Tax treatment of teachers: an analysis of their special problems and tax benefits, J. Taxation, 7/64; The social balance controversy in perspective, Quart. Rev. Econ. & Bus, summer 67. Address: Dept. of Economics, University of Arizona, Tucson, Ariz. 85721.

HERBERT, C(ARL) P(RESTON), Econ, Govt, see 10th ed, Soc. & Behav. Vols.

HERBERT, DR. CHARLYNE TOWNSEND, b. Denver, Colo, June 28, 07; m. 60. CLINICAL PSYCHOLOGY. B.A, California, Los Angeles, 41, Ph.D, 47. Staff clin. psychologist, Vet. Admin. Hosp, 48-52, asst. chief clin. psychologist, 52-59; chief clin. psychologist, Eval. Center for Except. Children, La, 59-60; CHIEF CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, 60-; ASSOC. CLIN. PROF. PSYCHOL, CALIFORNIA, LOS ANGELES, 52- Nat. Inst. Ment. Health res. grant, 60. Consult, Calif. Neurol. Inst, 50-55. Dipl, Am. Bd. Exam. Prfnl. Psychol, 56; Am. Bd. Exam. Psychol. Hypnosis, 61. Fel. AAAS; fel. Psychol. Asn. Psychophysiology; psychocardiological problems and their effect on personality; personality adjustment in physically handicapped individuals. Publ: Heart disease and personality, J. Psychosom. Med; co-auth, Emotion and gastric activity & auth, Psychological aspects of mitral commissurotomy, 3/64, J. Am. Med. Asn. Address: Clinical Psychology Section, Veterans Administration Hospital, 5901 E. Seventh St, Long Beach, Calif. 90801.

HERBERT, DR. MARVIN JAMES, b. Chicago, Ill, Mar. 3, 13; m. 54; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Olivet Col, 41; M.A, Nebraska, 42; Yale, 42-44; Ph.D.(psychol), Minnesota, 53. Asst. psychol, Olivet Col, 39-41; instr, Nebraska, 41-42, 44-45; res. assoc, Psychol. Corp, 43-44; lectr, Minnesota, 45-49; asst. prof, Syracuse, 49-53; CHIEF SKILLS ANAL, U.S. ARMY MED. RES. LAB, 53- Instr, Ft. Knox Community Col, Univ. Ken-

tucky, 60- Psychol. Asn; Human Factors Soc; Psychonomic Soc. Analysis of complex, psychomotor skills; performance decrement, with emphasis on vehicle driving and rotary-wing flying. Publ: Decrements in driving skill as a function of cumulative environmental stresses, Annual Army Human Factors Eng. Conf, 58; Analysis of a complex skill: vehicle driving, Human Factors, 63; sr. co-auth, Performance decrement in vehicle driving, J. Eng. Psychol, 64. Address: U.S.Army Medical Research Lab, Ft. Knox, Ky. 40121.

HERBERT, DR. PAUL A(NTHONY), b. Brooklyn, N.Y, Aug. 21, 99; m. 23, 43, 66; c. 3. ECONOMICS. B.S, Cornell, 21; M.F, 22; Ph.D.(land use planning), Michigan, 41. Asst. instr, Cornell, 21-22; asst. prof. forestry & asst, Mich. State Col, 22-26; sr. forest economist, U.S. Forest Serv, 26-30; lectr, sch. forestry, Yale, 30-31; prof. forestry & head dept, Mich. State Col, 31-50, dir. div. conserv, 50-56; chief div. res, Mich. Dept. Econ. Develop, 56-67; CONSULT. ADMIN & TECH, MICH. UNITED CONSERV, 67- Ed, Mich. Out of Doors. State rep, Nat. Wildlife Fedn, Mich, 37-43, v.pres, 52-61, pres, 61- U.S.A, 18-19; chief ord. off, Pentagon, 42-44, Capt. Soc. Am. Foresters; Wildlife Soc; Soil Conserv. Soc. Forest insurance and taxation; rural land use; rural government organization; industrial economics; conservation. Address: Michigan United Conservation, 1120 E. Oakland St, Lansing, Mich. 48912.

HERD, DR. G(EORGE) RONALD, Math. Statist, see 11th ed, Phys. & Biol. Vols.

HEREFORD, PROF. CARL F(INLEY), b. Llano, Tex, Apr. 20, 22; m. 48; c. 3. PSYCHOLOGY. B.A, Texas, 47, M.A, 49, Ph.D.(clin. psychol), 52. Clin. psychologist & res. dir, Austin Community Guid. Center, 52-60; assoc. prof, Texas, 60-61; prof. psychol, Nat. Univ. Mexico, 61-63; Chile, 63-65; assoc. prof. ED. PSYCHOL, TEXAS, AUSTIN, 65-67, PROF, 67- Lectr, Texas, Austin, 54-55, acting dir, Inst. Latin Am. Studies, 67- Consult, Brown Schs, Tex, 54-61. Ed, Revista Interamericana de Psicologia, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 56. U.S.M.C, 42-45. Interam. Soc. Psychol.(secy-gen, 65-68); Psychol. Asn; Latin Am. Studies. Asn. Cross-cultural research; group discussion techniques; attitude and value measurement; occupational interests; clinical psychology. Publ: Changing parental attitudes through group discussions, Univ. Texas, 63; co-auth, Aportaciones de la psicologia a la investigaciones transcultural, Editoral F. Trillas, Mexico, D.F, 66 & Aportaciones de la psicologia a la desarolla social y economico, Nat. Univ. Mexico, (in press). Address: 3401 Spanish Oak Dr, Austin, Tex. 78731.

HEREFORD, COL. JOSEPH PIERCE, U.S.A.F, Geog, Geol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

HERFINDAHL, DR. ORRIS C, b. Parshall, N.Dak, June 15, 18; m. 40; c. 4. ECONOMICS. B.B.A, Minnesota, 39; Ph.D.(econ), Columbia, 50. Instr. econ, St. Olaf Col, 40-41; economist, nat. income div, U.S. Dept. Commerce, 42-46; asst. prof. econ, Illinois, 48-51; economist, U.S. Bur. Mines, 51-53; res. staff, Cmt. Econ. Develop, 53-56; SR. RES. ASSOC, RESOURCES FOR FUTURE, INC, 56- U.S.N, 44-46. Econ. Asn; Economet. Soc. Industrial organization; public finance. Publ: Copper costs and prices: 1870-1957, Johns Hopkins, 59; Three studies in mineral economics, 61 & co-auth, Quality of the environment, 65, Resources for Future. Address: 902 Madison Lane, Falls Church, Va. 22046.

HERGENHAHN, DR. BALDWIN ROSS, b. Chicago, Ill, July 21, 34; m. 56; c. 5. EXPERIMENTAL PSYCHOLOGY. B.A, West. Wash. Col. Ed, 59; M.A, Arizona, 65, Ph.D.(psychol), 66. ASST. PROF. PSYCHOL, HAMLINE, 66- Dir, Nat. Sci. Found. instr. sci. equip. grant, 67-69. U.S.A, 53-54. Psychol. Asn. Effects of overtraining and undertraining on probability matching and reversal, discrimination reversal and incidental learning. Publ: Influence on degree of intentional learning upon the performance of an incidental task, 65 & Postcriterion insertion of a second relevant dimension in a simple discrimination problem, 66, Psychol. Reports; Resistance to extinction as a function of level of discriminative training and the presence or absence of an irrelevant cue, Psychonomic Sci, 67. Address: Dept. of Psychology, Hamline University, 562 Hewitt, St. Paul, Minn. 55101.

HERLIHY, PROF. H(ORACE) M(URRAY), b. Coleman, P.E.I, Feb. 1, 17; m. 42. ECONOMICS. B.A, Alberta, 48; M.A, Chicago, 50, Ph.D.(econ), 54. Staff assoc, joint cong. cmt. railroad retirement legis, U.S. Cong, 52-53; instr. econ. & sociol, St. Xavier Col, 53; asst. prof. labor econ, Valparaiso, 54-55; from instr. to asst. prof. soc. sci, Mich. State, 55-57; res. assoc, transportation center, Northwestern, 57; assoc. prof. ECON, LAKE FOREST COL, 57-63, PROF, 63-, DEPT. CHMN, 60- Vis. scholar, Brookings Inst, 67. Can. Army, 40-45. Econ. Asn; Indust. Rels. Res. Asn. Industrial relations; collective bargaining and arbitration; wage structure in Canada and the United States. Address: 7347 Sheridan Rd, Chicago, Ill. 60626.

HERLIN, DR. WAYNE R(ICHARD), b. Salt Lake City, Utah, May 20, 28; m. 53; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Utah, 52, Ph.D.(ed. psychol), 63; M.A, Stanford, 56. Teacher, jr. high sch, Utah, 56-61; counsr, high sch, 61-64; ASST. PROF. ED. PSYCHOL, BRIGHAM YOUNG, 64- Mem. instr. staff, Proj. Cause, Univ. Utah, 64, summer vis. asst. prof, 64-65. Consult, proj. develop. comprehensive assessment prog. in reading, Sci. Res. Assocs, 65-66; ment. health proj. small rural dists. in Utah, Title III, Elem. & Sec. Ed. Act, 66-67. Intel.C, U.S.A, 45-47, 53-55, Sgt. Personnel & Guid. Asn; Asn. Counselor Ed. & Supv; Asn. Measurement & Eval. Guid. Diagnostic procedures in reading; reading patterns of the American Indian; development of speed in the college reader. Publ: Co-auth, Are normative oral reading error profiles necessary?, Int. Reading Asn. Ninth Annual Convention Proc, 64; auth, Adult reading programs—a rationale, Utah Reading Rev, spring 67. Address: W. Crandall House, Brigham Young University, Provo, Utah 84601.

HERLOCKER, DR. KEITH EDWARD, Counseling, Clin. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

HERMA, DR. JOHN L(EONARD), Soc. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

HERMAN, CHARLES L, Finance, Econ, see 10th ed, Soc. & Behav. Vols.

HERMAN, DR. DAVID O(VENDEN), b. Baltimore, Md, May 30, 29. PSYCHOLOGY. A.B, Haverford Col, 50; A.M, Columbia, 51; Ph.D, Ohio State, 59. With A.B. De Mont Labs, 53-55; staff res. psychologist, PSYCHOL. CORP, 59-67, ASST. DIR. TEST DIV, 67- U.S.M.C, 51-53. Psychol. Asn; Psychomet. Soc. Address: Psychological Corp, 304 E. 45th St, New York, N.Y. 10017.

HERMAN, PROF. DAVID T(HEODORE), b. Chicago, Ill, Apr. 1, 16; m. 42; c. 1. PSYCHOLOGY. A.B, Indiana, 40, M.A, 42, Ph.D.(psychol), 47. Instr. PSYCHOL, Indiana, 54-47; asst. prof, La. State, 47-49; assoc. prof, WICHITA STATE, 49-57, PROF, 57-, CHMN. DEPT, 66- Psychol. Asn. General theoretical experimental psychology; perception. Address: Dept. of Psychology, Wichita State University, Wichita, Kans. 67208.

HERMAN, DR. EDWARD E, b. Dec. 6, 31; Can. citizen; m. 61; c. 1. ECONOMICS, INDUSTRIAL RELATIONS. B.Comm, McGill, 58, M.A, 62, Ph.D, 65. Employ. forecast surv. officer, Can. Dept. Labour, 61-64; asst. prof. econ, State Univ. N.Y, 65-66, ASSOC. PROF, 66-67; ECON. & INDUST. RELS, CINCINNATI, 67- Indust. rels. res. for Prime Minister's Task Force Indust. Rels, Can, 67. Am. Econ. Asn; Am. Indust. Rels. Res. Asn; Can. Indust. Rels. Res. Inst. Publ: Collective bargaining by civil servants in Canada, Indust. Rels. Res. Asn, 66; Determination of the appropriate bargaining unit by labour relations boards in Canada, Can. Dept. Labour, 67. Address: Dept. of Economics, University of Cincinnati, Cincinnati, Ohio 45221.

HERMAN, DR. IRVING L(EONARD), b. Seattle, Wash, June 6, 20; m. 46; c. 2. PSYCHOLOGY. B.A, Washington (Seattle), 42; M.A, Stanford, 49, Ph.D. (psychol), 52. Res. psychologist, Air Force Personnel & Training Res. Center, 50-58; eng. psychologist, missiles & space div, Lockheed Aircraft Corp, 58; head, human factors group, AEROJET-GEN. CORP. DIV, GEN. TIRE & RUBBER CO, 58-60, asst. dir, personnel indoctrination & training, 60-61, MGR, ED. & TRAINING DEPT, 61- Lectr, Trinity Col.(Tex), 51-52; Sacramento State Col, 56, asst. prof, 61; lectr, exten, California, 61- Mgr, Neighborhood Youth Corps, Sacramento, 67- Consult, Calif. State Personnel Bd, 55. Mem. indust. supvry. adv. cmn, Am. River Col, 63-; adv. coun. youth employ. ed, Sacramento City Unified Sch. Dist, 64-66. U.S.A, 42-45, Lt. Psychol. Asn. Industrial training. Publ: Target study with knowledge of accuracy of aiming point identification; Analysis of radar aiming point identification motion picture group tests; Evaluation status report of the demonstration program in reading and mathematics, Aerojet, 9/67. Address: 301 Ross Way, Sacramento, Calif. 95825.

HERMAN, DR. KENNETH, b. Englewood, N.J, Mar. 4, 27; m. 59; c. 4. PSYCHOLOGY. A.B, Fla. South. Col, 50; M.Ed, Boston, 52; Ed.D, Columbia, 55; N.Y. Univ, 56. Clin. psychologist psychother, speech clin, Boston, 52-53; res. asst, Child Welfare Res. Sta, Iowa, 54; DIR, PSYCHOL. SERV. CENTER, 55- Clin. psychologist, Mass. Gen. Hosp, Boston, 51-54; res. psychologist, dept. neurol, sch. med, Harvard, 52-53; lectr, Adult Ed. Center, Teaneck, 55, dir. reading clin, 55-; dir. Child Study Center, Garfield, 65-66; clin. assoc, Morton Prince Clin. Hypnother. Consult. psychologist, Philip Exeter Acad, N.H, 51-54. U.S.A, 45-46, Sgt. Psychol. Asn; Personnel & Guid. Asn; Speech Asn; Speech & Hearing Asn; Group Psychother. Asn; Soc. Clin. Exp. Hypnosis. Psychotherapy; child-parent relationships; speech pathology associated with emotional etiology; psychotherapy and preventative psychology; psychological diagnosis in neurology; marriage counseling; play therapy; projective techniques. Publ: Analysis of literature on psychological factors and etiology of delayed speech with emphasis on child-parent relationships; Apparent changes in personal adjustment and interpersonal relationships as effected by intensive experience in a course in the psychology of family relations; To what extent does industry utilize psychology. Address: Psychological Service Center, 175 Cedar Lane, Teaneck, N.J. 07666.

HERMAN, LEON M, b. Poland, Jan. 26, 05; nat; m. 34; c. 2. ECONOMICS. B.A, Long Island, 32; M.A, Chicago, 35. SR. SPECIALIST SOVIET ECON, LEGIS. REFERENCE SERV, LIBRARY OF CONG, 58- Adj. prof, Sch. Int. Serv, American Univ, 59- Econ. Asn; Asn. Adv. Slavic Studies. Industrial structure; economic institutions; foreign economic policies of the Union of Soviet Socialist Republics. Publ: The limits of forced economic growth in USSR, World Polit, 4/64; Economic content of Soviet trade with the West, Law & Contemporary Probs, autumn 64; The Sino-Soviet dispute, Challenge, 1-2/67. Address: 10027 Brunett Ave, Silver Spring, Md. 20901.

HERMAN, DR. LOUIS M(ARVIN), b. New York, N.Y, Apr. 16, 30; m. 61. EXPERIMENTAL PSYCHOLOGY. B.S.S, City Col. New York, 51, M.A, 52; Ph.D, Pa. State, 61. Sr. psychologist, human factors res, HRB-Singer, Inc, 58-61; sr. res. engr. systs. res, Columbus Div, N.Am. Aviation, Inc, 61-63; asst. prof. PSYCHOL, Queens Col.(N.Y), 63-66; ASSOC. PROF, HAWAII, 66- Res. grants, Nat. Inst. Ment. Health, 64-67, Oceanic Found, 67 & U.S. Navy, 68-69. U.S.A.F, 53-57, Res, 57-, Capt. AAAS; Psychol. Asn. Human performance and information processing; comparative learning. Publ: Study of the single channel hypothesis and input regulation within a continuous, simultaneous task situation, Quart. J. Exp. Psychol, 65; Information encoding and decision times as variables in human choice behavior, J. Exp. Psychol, 66; Predicting effectiveness of Bayesian classification systems, Psychometrika, 66. Address: Dept. of Psychology, University of Hawaii Honolulu, Hawaii 96822.

HERMAN, DR. PAUL N(OEL), b. New York, N.Y, Dec. 5, 30; m. 53; c. 4. EXPERIMENTAL PSYCHOLOGY, PSYCHOACOUSTICS. A.B, Cornell, 52; A.M, Alabama, 54; Ph.D.(psychol), Connecticut, 65. Res. asst. pub. health, sch. med, State Univ. N.Y, 54-56; asst. personnel psychologist, U.S. Army, San Antonio, Tex, 57-58; res. asst. learning, Connecticut, 58-60; res. assoc. psychoacoustics, C.W. Shilling Auditory Res. Lab, Groton, Conn, 61-65; NAT. INST. NEUROL. DISEASES & BLINDNESS FEL. SENSORY PHYSIOL, AUDITORY RES. LABS, PRINCETON, 65- Asst. to dir, North. N.Y. Rural Rehab. Surv, 56. U.S.A, 56-58, Med.Serv. C.Res, 58-, 1st Lt. AAAS; Acoustical Soc; Psychol. Asn. Discrimination learning; sensory physiology; auditory fatigue. Publ: Co-

auth, The shape of the discrimination gradient for two intra-continuum stimulus separation groups, J. Exp. Psychol, 55, A single lever psychophysical adjustment procedure for measuring audition thresholds in the monkey, J. Auditory Res, 63 & The learning of verbal associative responses elicited by non-verbal stimuli, J. Gen. Psychol, 65. Address: Auditory Research Labs, Princeton University, Princeton, N.J. 08540.

HERMAN, DR. ROBERT D(UNTON), b. Champaign, Ill, May 17, 28; m. 51; c. 3. SOCIOLOGY. B.A, Pomona Col, 51; M.A, Wisconsin, 54, Ph.D.(sociol), 59. Instr. SOCIOL, Iowa State, 55-58, asst. prof, 58-60; POMONA COL, 60-63, ASSOC. PROF, 63- U.S.N, 46-48. Sociol. Asn. Social organization and structure; racial and other social problems; industry and bureaucracy. Publ: Ed, Gambling, Harper, 67. Address: Dept. of Sociology, Pomona College, Claremont, Calif. 91711.

HERMAN, DR. ROBERT S, b. Newburgh, N.Y, Dec. 18, 19; m. 42; c. 2. ECONOMICS, PUBLIC ADMINISTRATION. B.A, Union (N.Y), 41; M.A, Cincinnati, 43; Ph.D, N.Y. Univ, 52. From dir. res. & fiscal policy to dir. planning & develop, div. budget, N.Y. State Exec. Dept, 54-63, asst. budget dir, 63-66; exec. dir, N.Y. State Cmn. Constitutional Convention, 66-67; EXEC. ASST. TO PRES, N.Y. STATE CONSTITUTIONAL CONVENTION, 67- Vis. lectr, Maxwell Sch, Syracuse, 47-60 & 63; Russel Sage Col, 48-57; econ. develop. inst, World Bank, 58-66; Ford Found. vis. prof, Indian Inst. Pub. Admin. & consult, Delhi Munic. Corp, India, 59; vis. lectr, State Univ. N.Y. Albany, 60-62. Am-Scandinavian Found. consult. finance ministers, Denmark, Sweden & Finland, 56; UN adv, Equador, 58, 60 & Greece, 61, prog. & performance budgeting, UN, 60-61; adv, Govt. India, 59; U.S. Agency Int. Develop. adv, Peru, 62, Venezuela, 64-67 & Nigeria, 66. Mem. budgeting cmt. hwy. res. bd, Nat. Acad. Sci, 62-67; President's Task Force Intergovt. Fiscal Coop, 64; adv, Nat. Coun. Arts, 66- Adv, N.Y. State Legis. Cmn. Fiscal Affairs State Govt, 54-55; N.Y. State Fiscal Affairs Cmn, 62-65; consult, N.Y. Inst. Pub. Admin, 62; Rand Corp, 63- U.S.A, 42-46. Statist. Asn; Soc. Pub. Admin; Finance Asn. Public finance; budgeting. Publ: Financial problems of a large state, Nat. Tax Asn. Proc; Administrators' dilemmas, Pub. Admin. Rev; Budget administration in Ecuador. Address: 9 Southwood Dr, Slingerlands, N.Y. 12159.

HERMAN, PROF. SIDNEY, b. Boston, Mass, June 20, 22; m. 54. ECONOMICS. B.S, Northeastern, 49; M.A, Boston, 51; fel, Clark. Instr. ECON, Boston, 51-52; NORTHEASTERN, 52-56, asst. prof, 56-63, ASSOC. PROF, 63- Consult, Econ. Training Progs, 63- Sig.C, U.S.A, 42-46. Econ. Asn; Acad. Polit. & Soc. Sci. Economic geography; marketing; labor economics. Address: Dept. of Economics, Northeastern University, 360 Huntington Ave, Boston, Mass. 02115.

HERMAN, PROF. THEODORE, b. Philadelphia, Pa, Mar. 11, 13; m. 41; c. 2. GEOGRAPHY. A.B, Swarthmore Col, 35; M.A, Columbia, 36; M.A, Washington (Seattle), 51, Ph.D.(geog), 54. Asst. prof. GEOG, Utah State Agr. Col, 52-54; vis. asst. prof, Washington (Seattle), 55; from asst. prof. to assoc. prof, COLGATE, 55-65, PROF, 65-, CHMN. DEPT, 55- Asn. Am. Geog; Am. Geog. Soc; Asn. Asian Studies. Geography of China and Asia; cultural and political geography. Publ: Cultural factors in the location of the Swatow lace and needlework industry, Ann. Asn. Am. Geogr; Role of cottage and small scale industries in Asian economic development, Econ. Develop. & Cultural Change; Group values toward the national space: the case of China, Geog. Rev. Address: Dept. of Geography, Colgate University, Hamilton, N.Y. 13346.

HERMANN, HAROLD C(ARL), b. Evansville, Ind, July 31, 19; m. 48; c. 2. STATISTICS. B.C.S, Strayer Col, 45, M.C.S, 46. Statistician, Bur. Labor Statist, 43-52; head, indust. resources sect, bur. aeronaut, U.S. Dept. Navy, 52-59, statist. & workload br, 59-60, indust. opers. eval. br, Bur. Weapons, 60-63; SR. PROG. ANAL, OFF. SECY. DEFENSE, 63- Adj. prof, Strayer Col, 46-60. Statist. Asn. Econometric input-output time cost relationships based on learning curve; Gaussian curve and logistic curve tests to project military procurement requirements; development and administration of Department of Defense planning, programming and budgeting system. Address: Pentagon, Washington, D.C. 20301.

HERMANS, PROF. THOMAS G(ERALD), b. Glencove, Wash, Feb. 18, 98; m. 27; c. 1. PSYCHOLOGY. B.S, Washington (Seattle), 22, M.A, 27. Asst. prof. PSYCHOL, WASHINGTON (SEATTLE), 41-63, EMER. ASST. PROF, 63- Sr. res. psychophysiologist, Nat. Defense Res. Cmt. Proj, adv. fire control sch, Navy Yard, D.C, 44-45. Fel. Psychol. Asn. Function of muscular factors in visual space perception. Publ: Visual size constancy as a function of convergence, Torsion in persons with no known eye defect & Relationship of convergence and elevation changes to judgments of size, J. Exp. Psychol. Address: 4540 20th Ave. N.E, Seattle, Wash. 98105.

HERMENS, PROF. F(ERDINAND) A(LOYS), b. Nieheim, Germany, Dec. 20, 06; U.S. citizen. POLITICAL SCIENCE, ECONOMICS. Berlin, 25-30; dipl, Bonn, 28, Ph.D, 30; Paris, 30-31; London Sch. Econ, 34-35. Res. asst, Inst. World Econ, Germany, 31-32; asst. dept. econ, Inst. Tech, Berlin, 33-34; asst. prof. econ, Catholic Univ, 35-38; assoc. prof. polit, Notre Dame, 38-45, prof. polit. sci, 45-59; PROF. POLIT. SCI. & DIR. RES. INST. POLIT. SCI. & EUROPEAN QUESTIONS, COLOGNE, 59- Soc. Sci. Res. Coun. grant in aid, 37; vis. prof, Muenster & Bonn, 48; Munich, 53-54; res. assoc, cmt. int. rels, Notre Dame, 59- Researcher, Int. Rels. Cmt, Europe, 50. Polit. Sci. Asn; Econ. Asn. Democracy and capitalism; democracy and electoral systems; employer and the business cycle. Publ: Europe between democracy and anarchy. Address: 5 Köln-Lindenthal, Schallstrasse 6, Germany.

HERMIE, ALBERT M(ATTHYS), b. Collis, Minn, Aug. 29, 16. STATISTICS. B.S, Illinois, 39, M.S, 40; fel, George Washington, 40-41; Harvard, 43-44; Michigan, 44-45. Assoc. statist, George Washington, 41-43; statistician, War Prod. Bd, 41-43; economist, Civilian Prod. Admin, 46-47; STATISTICIAN, U.S. Dept. Navy, 47-48; U.S. Dept. Agr, 48-59; Fed. Aviation Agency, 59-67; U.S. DEPT. TRANSPORTATION, 67- U.S.A, 43-46. AAAS; Economet Soc; Statist. Asn. Economics of the wool and wool textile industries; transportation economics. Publ: Prices of apparel wool; Cycle in mill use of apparel wool; Trends in production, consumption, and prices of wool. Address: 3114 Wisconsin Ave. N.W, Apt. 603, Washington, D.C. 20016.

HERNANDEZ, DR. PEDRO F, b. Leon, Mex, June 16, 25; m. 68. SOCIOLOGY, AGRICULTURAL ECONOMICS. M.A, Free Inst. Philos, Mex, 54; M.D, Philos. Theol. Hochsch, Frankfurt, 60; M.A, Iowa State, 63, Ph.D.(sociol), 65. Asst. prof. sociol, Iberamerican Univ, Mex, 64-67; consult. soc. econ. progs, Bank of London & Mex, Mex, 64-67, dept. econ. studies, 65-67; ASST. PROF. SOCIOL, LA. STATE, 67- Sociol. Asn; Rural Sociol. Soc; Mex. Sociol. Soc. Social power in rural Mexico; aspirations and expectations of high school seniors in southern United States; social change and agricultural technology. Publ: Filosofia de lo social, Humanitas, Univ. Nuevo Leon, 12/67. Address: Dept. of Sociology, Louisiana State University, Baton Rouge, La. 70803.

HERNDON, PROF. FRANK M(URRAH), b. Okolona, Miss, Nov. 19, 15; m. 40; c. 3. BUSINESS ADMINISTRATION. A.B, Bowling Green Col. Commerce, 37; M.B.A, Mississippi, 48; Ed.D, Northwestern, 53. Teacher, high sch, Miss, 37-42; head dept, Sidney Lanier High Sch, Ala, 42-47; instr, Mississippi, 47-48, asst. prof. off. admin, 48-54; prof. bus. & head dept, Miss. State Col. Women, 54-62; PROF. BUS. ED, AUBURN, 62- Summers, vis. prof, George Peabody Col, 54-55, 59, 62, San Francisco State Col, 56, Catholic Univ, 57, Wisconsin, 60, Pittsburgh, 61. Consult, Policies Cmn. Bus-Econ. Ed, 63-67. Trustee, Future Bus. Leaders Am, 57-67; mem, nat. sch. cmt, Am. Econ. Found, 63-, outstanding serv. award, 59. Nat. Bus. Ed. Asn. Business education. Publ: A career in teaching the business subjects, 64 & State supervision through leadership and services, chap. 7, In: Administration and supervision in business education, 66, Nat. Bus. Ed. Asn; Current concerns in business education—a symposium, EBTA Jour, fall 67. Address: Dept. of Secondary Education, School of Education, Auburn University, Auburn, Ala. 36830.

HERNDON, DR. JAMES F, b. Indianapolis, Ind, Aug. 11, 29; m. 52; c. 1. POLITICAL SCIENCE. A.B, Indiana, 52; M.A, Wayne State, 57; Ph.D.(polit. sci), Michigan, 63. Acting instr. polit. sci, Drake, 59-60; asst. prof, North Dakota, 60-63, assoc. prof, 63-67, honors coordinator, 65-67, assoc. dean col. arts & sci, 67; ASSOC. PROF. POLIT. SCI, VA. POLYTECH, 67- Staff asst, subcmt. constitutional rights, U.S. Senate, 65. U.S.A, 52-54. Polit. Sci. Asn; Soc. Gen. Syst. Res. Legislative and judicial behavior; general systems theory. Publ: Co-auth, A selected bibliography of materials in state government and politics, Bur. Govt, Univ. Kentucky, 63; auth, The role of the judiciary in state political systems, In: Judicial behavior, Rand McNally, 64; Legislative politics in North Dakota, Minnesota-Dakotas Assembly, 67. Address: 3 Carlton Scott Apts, Blacksburg, Va. 24060.

HERO, DR. ALFRED O(LIVER), JR, b. New Orleans, La, Feb. 7, 24; m. 54; c. 1. POLITICAL SCIENCE, SOCIAL PSYCHOLOGY. B.S, U.S. Mil. Acad, 45; M.A, Vanderbilt, 49 & 50; Ph.D.(polit. sci), George Washington, 57. EXEC. SECY, WORLD PEACE FOUND, 54- Polit. Sci. Asn. International communications; American trade unions and United States foreign policy; domestic politics of foreign aid; American religious groups and foreign affairs; United States television and world affairs. Publ: Mass media and world affairs; Voluntary organizations in world affairs communications; The Southerner and world affairs. Address: 40 Mt. Vernon St, Boston, Mass. 02108.

HEROLD, DR. ELAINE BLUHM, b. Muskegon, Mich, Nov. 12, 25; m. 64. ANTHROPOLOGY. M.A, Chicago, 48, Ph.D, 57. Asst. archaeol, Field Mus, 48-56; from res. assoc. to asst. prof. anthrop, Illinois, Urbana, 56-64; PART-TIME INSTR. GEOG, AUGUSTANA COL.(ILL), 64- Ed, Ill. Archaeol. Surv. Bull, 59-66. Fel. Anthrop. Asn; Soc. Am. Archaeol. Archaeology of Illinois and of southwestern United States: textile from archaeological sites in the Southwest. Publ: Ceramics, In: Cohonina culture of Northwestern Arizona; Clothing and textiles, In: Mogollon cultural continuity and change; Ceramic sequence in Central Basin and Hopewell Sites in Illinois, Am. Antiq. Address: 2617 Farnam St, Davenport, Iowa 52803.

HEROLD, DR. LAURANCE C(ARTER), b. Kansas City, Mo, May 30, 31; m. 55. GEOGRAPHY. B.A, Colorado, 53, M.A, 56; Ph.D.(geog), Southampton, 68. Instr. GEOG, Denver, 56-57; Wyoming, 57-59; asst. prof, DENVER, 59-60 & 63-68, ASSOC. PROF, 68- U.S.A.F, 52. Asn. Am. Geog. Cultural and urban geography; geography of the British Isles. Publ: Trincheras and physical environment along the Rio Gavilan, Chihuahua, Mexico, Univ. Denver, 65; Control of mantle by aboriginal terracing in Chihuahua-Sonora, Mexico, Int. Geog. Union, 66. Address: Dept. of Geography, University of Denver, Denver, Colo. 80210.

HERON, PROF. WILLIAM T(HOMAS), b. Chicago, Ill, Jan. 3, 97; m. 55. PSYCHOLOGY. A.B, Kansas, 20, M.A, 21; Ph.D.(psychol), Chicago, 24. Asst. prof. PSYCHOL, Kansas, 24-26; MINNESOTA, MINNEAPOLIS, 26-34, assoc. prof, 34-46, prof, 46-62, EMER. PROF, 62- U.S.A, 17-19. Soc. Clin. Hypnosis; Psychol. Asn. Learning; hypnosis. Address: 1500 N.W. 43rd Terr, Apt. 201-Park South, Ft. Lauderdale, Fla. 33313.

HERON, DR. WOODBURN, b. Mandeville, Jamaica, B.W.I, July 3, 26; nat. PSYCHOLOGY. B.A, McGill, 48, M.A, 49, Ph.D.(psychol), 53. Res. assoc. PSYCHOL, McGill, 53-56, asst. prof, 56-60; ASSOC. PROF, McMASTER, 60- Am. Psychol. Asn; Can. Psychol. Asn. Physiological psychology; perception; sensory processes. Address: Psychology Dept, McMaster University, Hamilton, Ont, Can.

HERPEL, PROF. GEORGE L(OYD), b. St. Louis, Mo, Aug. 31, 21; m. 44; c. 2. MARKETING, PSYCHOLOGY. B.A, Vanderbilt, 43; M.B.A, St. Louis, 55, Ph.D.(mgt), 58. Gen. sales mgr, & dir. pub. rels, C.V. Mosby Co, 47-54; dir. exec. develop. long range planning, Int. Shoe Co, 54-62; PROF. MKT, TEMPLE, 62- U.S.N.R, 42-46, Res, 46-52, Lt. Comdr. Mkt. Asn.(v.pres, 61-65). Management; planning research in international business, especially cultural, economic, buying patterns and changes; social political, and economic aspects of transportation and movement of goods and people. Publ: Role of research in shoe manufacturing industry, J. Am. Mkt. Asn, 62. Address: Dept. of Marketing, Temple University School of Business Administration, Philadelphia, Pa. 19122.

HERR, PROF. VINCENT V(ICTOR), b. Fulton Co, Ohio, July 2, 01. PSYCHOLOGY. A.B, St. Louis, 25, M.A, 26; L.Th, Pontifical Univ, 34; Vienna, 37-38; London, 38; Ph.D.(psychol), Bonn, 39. Asst. prof. biol,

Xavier (Ohio), 26-29; asst. prof. philos, West Baden Col, 34-37; assoc. prof. PSYCHOL, LOYOLA (ILL), 39-48, PROF. & CHMN. DEPT, 48- Lectr, Off. Civilian Defense, 42-45. Midwest consult, clin. psychol. training prog, Vet. Asn, 64-; sem. ment. health training, Vatican Coun, Italy, 65- Fel. Psychol. Asn. Experimental social psychology; experimental personality tests; attitude tests. Publ: Co-auth, Screening of candidates for priesthood and religious life, Loyola, 62; auth, Religious psychology, Alba, 64; Psychogalvanometric test of neuroticism, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, Loyola University, 6525 Sheridan Rd, Chicago, Ill. 60626.

HERR, PROF. WILLIAM McD(ANIEL), b. Westminster, Md, June 7, 30; m. 51; c. 3. AGRICULTURAL ECONOMICS. B.S, Cornell, 51, Ph.D.(agr. econ), 54; M.S, Illinois, 52. Agr. economist, res. dept, Fed. Reserve Bank Chicago, 54-57; assoc. prof. AGR. ECON, SOUTHERN ILLINOIS, 57-63, PROF, 63- Ford Found. fel, Chicago, summer 61; teacher & researcher, Univ. New England, Australia, 62-64. Consult, farm prod. econ. div, Econ. Res. Serv, U.S. Dept. Agr, 66-67. Econ. Asn; Agr. Econ. Asn. Agricultural finance and production economics. Publ: The changing structure of the food processing industry, Econ. Record, 9/64; Capital formation: its importance and determinants, Australian J. Agr. Econ, 12/64; Technological change in the agriculture of the United States and Australia, J. Farm Econ, 5/66. Address: 1402 Skyline Dr, Carbondale, Ill. 62901.

HERRERA, DR. FELIPE, b. Valparaiso, Chile, June 17, 22; m; c. 2. ECONOMICS, FINANCE. B.A, Chile, 39, M.A, 46, LL.D, 47; London, 50-51; hon. Dr. Econ, Lima, 64; hon. Dr, Paraguay, 65; hon. LL.D, American Univ, 66, Pittsburgh, 67, Columbia, 67, California, Los Angeles, 67. Asst. legal dept, Cent. Bank Chile, 43-47; lawyer, 47-52; gov, Int. Bank Reconstruct. & Develop. & Int. Monetary Fund, 53-58, exec. dir, Int. Monetary Fund, 58-60; PRES, INTER-AM. DEVELOP. BANK, 60- Under-secy. econ. & commerce, Chilean Govt, 52, minister finance, 53; gen. mgr, Cent. Bank Chile, 53-58. Distinguished Serv. Cross, German Govt, 58; Inter-Am. Theodore Brent Award, Int. House, 63; Cavalier of Grand Cross Order of Merit, Italian Repub, 66. Economic policy and monetary problems. Publ: The Inter-American bank: instrument for Latin American development, Inter-Am. Bank, 62; Latin America integrated, Editorial Losada, Argentina, 64; Latin American development and its financing, Editorial Aguilar, Argentina, 67. Address: Inter-American Development Bank, 808 17th St. N.W, Washington, D.C. 20577.

HERRICK, DR. BRUCE HALE, b. Minneapolis, Minn, May 29, 36; m. 58; c. 2. ECONOMICS. A.B, Carleton Col, 58; Ph.D.(econ), Mass. Inst. Tech, 64. Asst. prof. ECON, CALIFORNIA, LOS ANGELES, 64- Vis. prof, Chile, 67-68. Consult, Sudan transportation proj, Lockheed Aircraft Int, Inc, 65-67. U.S.A.R, 58-64, Sgt. Am. Econ. Asn; Soc. Int. Develop; Pop. Asn. Am; Indust. Rels. Res. Asn; Royal Econ. Soc. Role of labor in the process of economic development, including demographic movements, formation of labor force; demand for its services and institutional forces. Publ: Urban migration and economic development in Chile, M.I.T. Press, 65. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

HERRICK, PROF. COLIN J(AMES), b. Swarthmore, Pa, June 15, 03; m. 36; c. 2. PSYCHOLOGY. B.A, Haverford Col, 24; summer, Cornell, 25; Middleburg Col, 32; Chicago, 26-27; M.A, Pennsylvania, 34, Ph.D, 39. Teacher & supvr, Episcopal Acad, Overbrook, Pa, 24-26, 27-32; asst. & clin. teacher psychol, Pennsylvania, 34-39; from asst. prof. PSYCHOL. & asst. dir. psychol. clin. to prof. & dir, HAWAII, 39-66, EMER. PROF, 66- Vis. prof, Rochester, 49. Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn. History of psychology; developmental and educational psychology; mental deficiency; crime and delinquency. Address: 5489 Opihi St, Honolulu, Hawaii 96821.

HERRICK, PROF. C(URTIS) JAMES, b. Philadelphia, Pa, June 8, 26; m. 51; c. 2. PSYCHOLOGY. A.B, Franklin & Marshall Col, 45; M.A, Pennsylvania, 50; Pa. State, 64-65. Chmn. dept. psychol, Bloomfield Col, 50-53, lectr, theol. sem, 51-53; instr. PSYCHOL. & counsr, Bates Col, 53-55; asst. prof, Rhode Island Col, 55-60; ASSOC. PROF, HARTWICK COL, 60-, chmn. dept, 61-65. U.S.A, 45-47, Sgt. Fel. AAAS; Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed; Nat. Ed. Asn; Ed. Res. Asn. Determination of behavioral correlates of bioelectronic recordings; relationship of muscle action potentials to various mental activities; measurement of dissonance/consonance between student perceptions and institutional objectives. Address: Dept. of Psychology, Hartwick College, Oneonta, N.Y. 13820.

HERRICK, DR. JOHN S(MITH), b. Cleveland, Ohio, Sept. 10, 16; m. 41; c. 3. BUSINESS MANAGEMENT. B.S, Mich. State, 40; M.B.A, George Washington, 60, D.B.A, 68. Chemist, Hewitt-Robbins, Inc, N.Y, 45-46; indust. engr, E.I. du Pont de Nemours & Co, 46-49; plant engr, Coverall Serv. & Supply, Inc, 49-51; supvr. gen. methods, Ansco Div, Gen. Aniline & Film Corp, 51-54; chief mgt. eng. div, U.S. Army Biol. Warfare Labs, Ft Detrick, Md, 54-61, chief mgt. assistance br, Comptroller of Army, Pentagon, 61-66; PROF. MGT, WESTERN KENTUCKY, 66- Guest lectr, Ord. Mgt. Eng. Sch, 57; lectr, George Washington. U.S.A, 40-45, Res, 45-, Lt. Col. Soc. Personnel Admin; Inst. Indust. Eng; Nat. Asn. Acct. Management research; natural resources. Publ: Using work sampling to study the activities of research workers, 1-2/59 & Using work simplification in research, 7-8/61, J. Indust. Eng; Is research management different? 12/61, Adv. Mgt. Address: 1625 Cabell Dr, Bowling Green, Ky. 42101.

HERRICK, PROF. KENNETH W, b. Long Beach, Calif, June 9, 22; m. 44; c. 2. ECONOMICS. B.A, Stanford, 46, M.B.A, 48; Huebner fel, Pennsylvania, 51-54, Ph.D.(econ), 55. Instr. mkt, Connecticut, 48-49, finance, 49-50, ins, 50-51, asst. prof, 54-57, head dept. bus, 55-57; PROF. INS. & CHMN. DEPT, TEXAS CHRISTIAN, 57- Mem. Col. Life Underwriters; Inst. Property & Liability Underwriters. U.S.A.A.F, 43-46, Lt. Life, property and casualty insurance. Publ: Total disability provisions in life insurance. Address: School of Business Administration, Texas Christian University, Ft. Worth, Tex. 76129.

HERRICK, DR. ROBERT, b. Brookfield, Mo, Sept. 13, 30; m. 54; c. 3. SOCIOLOGY. B.A, Westmar Col, 53; B.D, United Theol. Sem, 56; M.A, Chicago, 58; Ph.D.(sociol), Illinois, 62. Pastor, Evangelical Church of P.R, 56-57; asst. sociol. Illinois, 60-61, asst. dir. instr, U.S. Off. Ed. grant, 60-62, instr, exten, 61, instr. sociol, Univ, 61-62; asst. prof. WESTMAR COL, 62-64, ASSOC. PROF, 64-, CHMN. DEPT, 62- Sociol. Asn; Soc. Sci. Study Relig. Sociology of religion, especially church and community relationships; education, particularly the conditions for teaching. Publ: A manual for discussion leaders in the classroom, Stipes, 63; co-auth, Televised instruction in university residence halls with trained undergraduates as discussion leaders, MIMEO, Univ. Illinois, 64; auth, Bible study booklet (church and community), Otterbein, 66. Address: Dept. of Sociology, Westmar College, Le Mars, Iowa 51031.

HERRICK, DR. ROBERT M(ICHAEL), b. New York, N.Y, Sept. 14, 24; m. 47. PSYCHOLOGY. B.A, Colgate, 49; M.A, Columbia, 50, Ph.D.(psychol), 54. Prin. investr, govt. aided res, Columbia, 54-55; res. psychologist, AVIATION MED. ACCELERATION LAB, NAVAL AIR DEVELOP. CENTER, 55-56, HEAD EXP. PSYCHOL. BR, 56- Instr, med. sch, Pennsylvania, 55-56; vis. prof, Southern Illinois, 67-68. U.S.A, 43-46. Psychol. Asn; Psychonomic Soc. Vision; learning; comparative; instrumentation; psychophysics. Publ: Foveal luminance discrimination as a function of the duration of the decrement or increment in luminance, J. Comp. & Physiol. Psychol, 56; The successive differentiation of a lever displacement response, J. Exp. Anal. Behav, 64; Psychophysical methodology: comparison of the method of limits and the method of constant stimuli, Perceptual & Motor Skills, 6/67. Address: Dept. of Psychology, Southern Illinois University, Carbondale, Ill. 62901.

HERRICK, PROF. VIRGIL E(VERETT), Soc. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

HERRING, DR. FRED HENRY, b. Pueblo, Colo, June 3, 21; c. 1. CLINICAL PSYCHOLOGY. B.S, Denver, 48; M.A, Colorado, 51; Ph.D.(clin. psychol), 54. Personnel officer, U.S. Dept. Air Force, 40-46; U.S. civil serv. exam, br. area 13, Vet. Admin, Colo, 46-48, chief med. personnel, 48-49, trainee clin. psychol, 49-53; chief, clin. psychol. & electroencephalog. lab, Vet. Admin. Hosp, McKinney, Tex, 53-55, sr. psychologist, chronic treatment serv, Ft. Lyon, Colo, 55-57; asst. chief clin. psychol, Vet. Admin. Ment. Hyg. Clin, DENVER, 57-59, CHIEF CLIN. & COUNSELING PSYCHOL, VET. ADMIN. HOSP, 59- Chief psychologist, Nat. Ment. Health Center, 58-59. Vet. Admin. award, 57. U.S.A.A.F, 42-46, Res, 46-, Maj. Psychol. Asn. Psychosomatic relationships, especially cardiac arrest during surgical procedures; laboratory use of the opossum in studying brain-behavior relationships; behavioral correlates of organ transplant surgery in humans. Publ: Response during anesthesia and surgery: effect of psychological factors, Psychosom. Med; A re-examination of kinesthetic figural aftereffects in the brain-injured, Perceptual Motor Skills, 65; The Virginia opossum in psychological research, Psychol. Reports, 66. Address: P.O. Box 10428, Denver, Colo. 80210.

HERRING, HARRIET L(AURA), b. Kinston, N.C, July 29, 92. SOCIOLOGY. A.B, Meredith Col, 13; A.M, Radcliffe Col, 18; cert, Bryn Mawr Col, 19; North Carolina, 25-28. Teacher, high sch, N.C, 14-15; hist, Chowan Col, 15-17; employ. mgr. personnel work, Roxford Knitting Co, Pa, 18-19; community worker, Pomona Mill, N.C, 20-22; personnel dir, Carolina Cotton & Woolen Co, Marshall Field Co, 22-25; from res. asst. to res. prof. soc. sci. res, inst. res. soc. sci, North Carolina, 25-65, prof. indust. community, 35-65; RETIRED. Mem. & sect. cmn, Reorgn. State Govt, 53-57; del, Nat. Democratic Convention, 60. Social industrial relationships, especially in the southern region of the United States; development of the industrial community from rise of the factory. Publ: Welfare work in mill villages; Southern industry and regional development; Passing of the mill village. Address: Box 346, Chapel Hill, N.C. 27514.

HERRING, DR. PENDLETON, b. Baltimore, Md, Oct. 27, 03; m. 33; c. 2. POLITICAL SCIENCE. A.B, Hopkins, 25, Ph.D, 28; hon. A.M, Harvard, 44; LL.D, Princeton, 58. Instr. govt, Harvard, 28-37, asst. prof, 37-39, lectr, 39-43, assoc. prof, 43-46, secy. grad. sch. pub. admin, 37-46; exec. assoc, Carnegie Corp, N.Y, 46-48; PRES, SOC. SCI. RES. COUN, 48-, MEM. BD. DIRS, 46- Ford Found. vis. res. prof, Princeton, 62. Consult, Cent. Statist. Bd, 36; U.S. Dept. War, 41-53; U.S. Bur. Budget, 41-44, exec. secy, cmt. records war admin, 42-45, chmn, 45-46; mem. bd. adv, Army Indust. Col, 44-47; consult, U.S. Dept. Navy, 45-51; mem. adv. coun, Human Resources Res. Inst, U.S. Army Air Force, 49-53. Ed. in chief, Pub. Admin. Rev, 45-47. Dir, Woodrow Wilson Found, 50-55, 58-, v.pres, 54, 61, pres, 62-; v.pres, Int. Soc. Sci. Coun, 61- Dir, atomic energy group, UN, 46-47. V.chmn. cmt. pub. admin, Soc. Sci. Res. Coun, 42-45; chmn. div. cmt. soc. sci, Nat. Sci. Found, 59-, chmn. adv. cmt. soc. sci, 59-67. Mem, Coun. For. Rels. Citation & distinguished serv. award, U.S. Dept. Navy. AAAS (v.pres, 60); Polit. Sci. Asn.(2nd v.pres, 45, pres, 53); Philos. Soc; Am. Acad. Arts & Sci. Group representation before congress; public administration and public interest; politics of democracy. Address: Social Science Research Council, 230 Park Ave, New York, N.Y. 10017.

HERRINGTON, PROF. GEORGE S(QUIRES), b. Aurora, Ill, May 11, 09; m. 36; c. 1. SOCIAL SCIENCE. B.Ed, North. Ill. State Teachers Col, 33; M.A, Columbia, 37; Ed.D.(ed. sociol), Stanford, 47. Instr. SOC. SCI, Menlo Sch. & Jr. Col, Calif, 41-43; assoc. prof, Denver, 47-50; PROF, SACRAMENTO STATE COL, 50- U.S.N, 43-45, Lt. Comdr. Sociol. Asn; Soc. Study Soc. Probs. Social problems; history of American frontier. Publ: Status of educational sociology today & Democracy as a criterion in social affairs, J. Ed. Soc; Levancia Bent's diary of a sheep drive. Address: Dept. of Sociology, Sacramento State College, 6000 J St, Sacramento, Calif. 95819.

HERRINGTON, DR. JOSEPH S(HELDON), b. Pittsburgh, Pa, May 16, 21; m. 47; c. 3. PSYCHOLOGY. Ph.D, Pennsylvania, 52. Staff psychologist, Vet. Admin. Ment. Hyg. Clin, Pittsburgh, Pa, 51-53, asst. chief psychologist, Vet. Admin. Hosp, 53-55, chief psychol. training unit, 55-57; PARTNER, PSYCHOL. CONSULTS. TO INDUST, 57- U.S.N, 43-46, Lt. Psychol. Asn. Training in clinical psychology; psychological diagnosis and evaluation. Address: Psychological Consultants to Industry, Inc, 210 Grant St, Pittsburgh, Pa. 15219.

HERRINGTON, DR. L(OVIC) P(IERCE), Physiol, Psychol, see 11th ed, Phys. & Biol. Vols.

HERRIOTT, DR. ROBERT E(UGENE), b. New York, N.Y, Dec. 25, 29; m. 52; c. 2. SOCIOLOGY. A.B, Vermont, 51; A.M, Harvard, 55, Ed.D.(sociol), 61. Teacher, pub. schs, Mich, 55-58; res. asst. ed, Harvard, 58-60, instr, 60-61, asst. prof, 61-64; ASSOC. PROF. SOCIOL, FLA. STATE, 64- Consult, Maine State Dept. Ed, 63-65; bur. res, U.S. Off. Ed, 66- Outstanding res. award, Am. Personnel & Guid. Asn, 64. U.S.A, 51-54, Sgt. AAAS; Sociol. Asn. Sociological study of education, especially the study of schools as complex organizations. Publ: Co-auth, Staff leadership in public schools, 65 & Social class and the urban school, 66, Wiley. Address: Dept. of Sociology, Florida State University, Tallahassee, Fla. 32306.

HERRMANN, DR. KLAUS J, b. Cammin, Germany, July 21, 29; U.S. citizen; m. 65; c. 1. POLITICAL SCIENCE. B.A, Minnesota, 54, M.A, 58, Ph.D. (polit. sci), 60. Lectr. POLIT. SCI, European div, Univ. Maryland, 60-62; asst. prof, sch. govt. & pub. admin, American Univ, 63-65; ASSOC. PROF, SIR GEORGE WILLIAMS, 65- Annual vis. prof, Hochsch. Polit. Wissenschaften, Munich. Finance C, U.S.A, 48-52, Mil. Intel, 54-57, 1st Lt. Polit. Sci. Asn; Soc. Pub. Admin; Leo Baeck Inst. Administrative and constitutional questions which relate to American and German government and history. Publ: Instructor's manual to accompany Austin Ranney's: the governing of men, Holt, 66; Some considerations on the constitutionality of the military chaplaincy, American Univ. Law Rev, 12/64; Political response to the Balfour Declaration in Imperial Germany, Mid. East J, 8/65. Address: Dept. of Political Science, Sir George Williams University, Montreal 25, Que, Can.

HERRMANN, DR. LOUIS FERDINAND, b. Saginaw, Mich, Apr. 5, 10; m. 35; c. 2. AGRICULTURAL ECONOMICS. B.S, Mich. State Col, 32; M.S, West Virginia, 34; Ph.D.(agr. econ), Minnesota, 42. Assoc. agr. economist, coop. res. & serv. div, farm credit admin, U.S. Dept. Agr, 39-43, sr. agr. econ. statistician, div. statist. & hist. res, bur. agr. econ, 43-44; economist, Nat. Coop. Milk Producers Fedn, 44-49; agr. economist, div. mkt. & transportation res, bur. agr. econ, U.S. DEPT. AGR, 49-50, chief res. div, dairy br, prod. & Mkt. admin, 50-53, head dairy sect, mkt. res. div, agr. mkt. serv, 53-60, chief animal prod. br, mkt. econ. div, ECON. RES. SERV, 60-64, dep. dir, 64-65, AGR. ECONOMIST, FOR. DEVELOP. & TRADE DIV, 65- Sr. bus. analyst, dairy br, food rationing div, Off. Price Admin, 43. Consult. agr. mkt. & price policy, Ford Found. & Ministry Agr, Govt. India, 63-64. AAAS; Agr. Econ. Asn; Dairy Sci. Asn; Int. Asn. Agr. Econ; Indian Soc. Agr. Econ. Marketing of milk and dairy products; economics of agricultural development in Brazil. Publ: Co-auth, Regulations affecting the movement and merchandising of milk, U.S. Dept. Agr. Report; Butterfat sampling and testing problems: a nine-market study, U.S. Dept. Agr. Bull 1336, 6/65. Address: Foreign Development & Trade Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

HERRMANN, DR. OMER W(ESLEY), b. Boelus, Nebr, July 28, 97; m. 25; c. 2. AGRICULTURAL ECONOMICS. B.S.A, Nebraska, 22; Columbia, 23; Ph.D. (agr. econ), Wisconsin, 38. Teacher, high sch, Nebr, 22-25; assoc. prof. mkt, dept. agr. econ, Okla. Agr. & Mech. Col, 28-31; agr. economist, U.S. DEPT. AGR, 31-35, prin. agr. economist, 35-42, acting chief, mkt. res. div, Farm Credit Admin, 42, asst. dir. & dir. fats & oils br, Prod. & Mkt. Admin, 45-47, asst. res. adminstr, Agr. Res. Admin, 47-51, agr. attaché, Am. Embassy, France, 51-55, DEP. ADMINSTR. MKT. RES, AGR. MKT. SERV, 55- Mem. agr. mission, Brazil, 39; surv, U.S. oilseed crushing indust, War Prod. Bd. & U.S. Dept. Agr, 41-42; U.S. rep. fats & oils cmt, Int. Emergency Food Coun, 46-47; mem, U.S. Food Processing Res. Mission, U.S.S.R, 60. Commander, Order of Orange Nassau, Netherlands. U.S.A, 18, 42-45, Col; Bronze Star. AAAS; Agr. Econ. Asn; Soc. Hort. Sci; Mkt. Asn. Planning and administration of agricultural marketing research programs. Address: 6817 Breezewood Terr, Rockville, Md. 20852.

HERRMANN, DR. ROBERT O(MER), b. Washington, D.C, Feb. 7, 32; m. 67. AGRICULTURAL ECONOMICS. B.S, Wisconsin, 55; M.S, Mich. State, 61, Ph.D.(agr. econ), 64. ASST. PROF, home econ, California, Davis, 62-65; AGR. ECON, PA. STATE, 65- U.S.N, 55-58, Lt.(jg). Agr. Econ. Asn; Econ. Asn; Mkt. Asn. Household consumption behavior, especially food expenditures. Publ: Causal factors in consumer bankruptcy, Inst. Govt. Affairs, Univ. California, 65; Families in bankruptcy-a survey of recent studies, J. Marriage & the Family, 8/66; Interaction effects and the analysis of household food expenditures, J. Farm Econ, 11/67. Address: Dept. of Agricultural Economics, Pennsylvania State University, Room 6, Weaver Bldg, University Park, Pa. 16802.

HERRMANN, CAPT. R(OBERT) S(TOTT), U.S.N, b. Denver, Colo, Aug. 22, 20; m. 42; c. 3. PSYCHOLOGY. B.A, Colorado Col, 42; M.A, Denver, 48, Ph.D, 59. U.S. NAVY, 42-, clin. psychologist, Naval Hosp, Bethesda, Md, 48-49, sr. clin. psychologist, Naval Training Center, Ill, 49-51, clin. psychologist, BUR. MED. & SURG, 51-53, head clin. psychol. sect, neuropsychiat. br, 53-57, head med. allied sci. sect, MED. SERV. CORPS, 59-62, CHIEF, 62- Psychol. Asn. Military psychology; selection and training; personality dynamics, emotional adjustments and human factors in navy weapons systems. Publ: Co-auth, Psychiatric selection for military service, J. Am. Med. Asn; Practice of clinical psychology in the Navy, In: Survey of clinical practice in psychology. Address: Bureau of Medicine & Surgery, U.S. Navy Dept, Washington, D.C. 20390.

HERRNSTEIN, PROF. R(ICHARD) J(ULIUS), b. New York, N.Y, May 20, 30; m. 51, 61; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, City Col. New York, 52; Ph.D.(psychol), Harvard, 55. Asst. prof. PSYCHOL, HARVARD, 58-63, lectr, 63-64, assoc. prof, 64-67, PROF, 67- Consult, Gen. Atronics Corp, 63-; Little Brown & Co, 67- Res. psychologist, Walter Reed Army Med. Center, 56-58, U.S.A, 56-58, 1st Lt. Psychol. Asn. Experimental analysis of learned behavior. Address: Dept. of Psychology, William James Hall, Harvard University, Cambridge, Mass. 02138.

HERROLD, PROF. KENNETH F(REDERICK), b. Lewisburg, Pa, Aug. 23, 13; m. 41; c. 4. PSYCHOLOGY. A.B, Bucknell, 36; Yale, 36-37; M.S, Michigan, 40; Ed.D, Columbia, 48. Instr. physiol. & hyg, Bucknell, 40-43; guid, TEACHERS COL, COLUMBIA, 46-48, asst. prof. guid. & group develop, 48-51, assoc. prof, 51-54, PROF. PSYCHOL, 54- Consult, 48- U.S.N.R, 42-45, Lt.(jg). AAAS; Psychol. Asn; Personnel & Guid. Asn; Soc. Appl. Anthrop. Public health; human relations problem solving; social change; cooperation, coordination and action. Publ: Social psychology of education; co-auth, Dynamics of group action. Address: Dept. of Psychology, Teachers College, Columbia University, New York, N.Y. 10027.

HERRON, DR. ELMER WAYNE, b. Ft. Smith, Ark, May 21, 30; m. 59; c. 1. CLINICAL PSYCHOLOGY, PERSONALITY. B.A, Texas, 57, fel. & M.A, 59, Nat. Sci. Found. Coop. fel, 59-60, Soc. Sci. Res. Coun. fel, 60-61, Ph.D. (clin. psychol), 62. Res. assoc. PSYCHOL, Texas, 61-62; clin. intern, Lafayette Clin, Detroit, Mich, 62-63; ASST. PROF, Wisconsin, Milwaukee, 63-66; KENTUCKY, 66- U.S. Pub. Health Serv. training fel, 62-63; prin. investr, U.S. Pub. Health Serv. res. grant, 67- Consult, Vet. Admin, 63-; Wis. Dept. Ment. Health, 65-; Ky. Dept. Ment. Health Regional Serv, 67-; Nat. Inst. Ment. Health Clin. Res. Center, 67- U.S.N, 50-54. AAAS; Psychol. Asn; Soc. Proj. Tech. Inkblot perception and personality; relationship between projective, objective and physiological indices and behavior in psychological laboratory tasks. Publ: Co-auth, Inkblot perception and personality, Univ. Texas, 61; auth, The relationship of experimentally aroused achievement-motivation to academic achievement anxiety, J. Abnorm. & Soc. Psychol, 69: 690-694; Personality factors associated with the acquisition of the conditioned eyelid response, J. Personality & Soc. Psychol, 2: 775-777. Address: Dept. of Psychology, University of Kentucky, Lexington, Ky. 40506.

HERRON, PROF. LOWELL W(ILLIAM), b. Salem, Ohio, Feb. 20, 16; m. 50; c. 2. ECONOMICS. B.S, Kent State, 38, LL.D, 63; fel, Iowa, 38-39, M.A, 30; fel, Ohio State, 39-40; hon. Sc.D, Clarkson Tech, 63. Prof. econ. & admin, Clarkson Tech, 44-66, dean sch. arts, sci. & bus. admin, 52-57, dean col, 58-66, acting pres, 62-66; PROF. BUS. & ECON. & V.PRES, INTER-AM. UNIV. P.R, 66- Consult, Aluminum Co. Am, 42-; U.S. Hoffman Mach. Corp, 51-52; Racquette River Paper Co, 43-44 & 53-55; Gen. Elec. Co, 59-60; Procter & Gamble Co, 60-; Goodyear Tire & Rubber Co, 63- Ed, Clarkson Letter, 47-57. Mgt. Asn; Mkt. Asn. Educational administration. Publ: Ed, Readings for industrial distribution, Executive action simulation & Business simulation to industrial and university education. Address: Dept. of Economics & Business Administration, Inter-American University of Puerto Rico, San German, P.R. 00753.

HERRON, DR. WILLIAM GEORGE, b. Englewood, N.J, Mar. 21, 33; m. 57; c. 4. PSYCHOLOGY. B.A, Col. Holy Cross, 54; M.A, Fordham, 57, Ph.D, 60. Asst. exp. psychol, Fordham, 56-57; instr. psychol, Manhattanville Col. of Sacred Heart, 57-58; intern clin. psychol, St. Vincent's Hosp, New York, N.Y, 58-59; assoc. prof. PSYCHOL. & chmn. dept, St. Bonaventure, 59-65; ASSOC. PROF, ST. JOHN'S (N.Y), 65- Psychologist, Randolph Children's Home, 61-63; supv. clin. psychologist, Cattaraugus County Ment. Health Clin, 61-65; private practice, 62-; psychologist, Ment. Health Consult. Center, 65-; W. Bergen Ment. Health Center, 65-; consult. psychologist, Marymount Col, 67-; Relig. Consult. Center, 67-; summers, instr, Fordham, 56-58. Psychol. Asn. Schizophrenic reaction; personality development; psychotherapy; abnormal psychology; projective techniques. Publ: Co-auth, Reactive and process schizophrenia, Sci. & Behavior Books, 66 & The anatomy of abnormality, J. Psychol, 66; auth, Process-reactive classification of schizophrenia, Psychol. Bul. Address: 715 Route 9-W, Nyack, N.Y. 10960.

HERSEY, A(RTHUR) B(AIRD), b. Tientsin, China, Nov. 8, 08; U.S. citizen; m. 36; c. 2. ECONOMICS. Ph.B, Yale, 29, M.A, 31; M.A, Columbia, 33, 33-34. Jr. economist, Off. Adv. to Nat. Emergency Coun, 34-35; ECONOMIST, BD. GOVERNORS, FED. RESERVE SYST, 35-43, 45-, ADV, DIV. INT. FINANCE, 61-, chief spec. studies sect, 50-61. Economist, Off. Strategic Servs, 43-45; assoc. economist, Fed. Open Market Cmt, 67- Rockefeller award, 56. Econ. Asn. International economics; monetary theory and policy; business fluctuations. Publ: Sources and uses of corporation funds, Am. Statist. Asn. J; World payments situation, Proc. Tech. Cent. Banks Am. Continent; World markets and foreign trade, In: Determining the business outlook. Address: 3543 N. Delaware St, Arlington, Va. 22207.

HERSEY, PROF. REXFORD, Indust. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

HERSH, DR. CHARLES M(ARTIN), b. Tamaqua, Pa, Oct. 17, 21; m. 43; c. 2. POLITICAL SCIENCE. B.A, Syracuse, 43, M.A, 49, Ph.D.(polit. sci), 51. Instr. polit. sci, Syracuse, 48-50; prof. govt. & pub. admin. & asst. dean, American Univ, 50-62; dir. ed, Redstone Arsenal, 62-66; SOC. SCI. ADV, DEPT. ARMY, WASH, D.C, 66- Adj. prof, American Univ, 66- Sig.C, 43-46, Lt. Polit. Sci. Asn; Soc. Pub. Admin. Research methods; political behavior; public opinion. Publ: College students and federal employment. Address: 9905 Summit Ave, Kensington, Md. 20795.

HERSHBERGER, DR. WAYNE ALBERT, b. Akron, Ohio, Oct. 7, 31; m. 53; c. 3. PSYCHOLOGY. B.A, Manchester Col, 53; M.A, Kent State, 57; Ph.D. (psychol), Colorado 62. Mem. res. staff PSYCHOL, Colorado, 61-62; res. scientist, Am. Insts. Res, 62-64; ASST. PROF, NORTHERN ILLINOIS, 64- AAAS; Psychol. Asn. Learning and perception. Publ: Co-auth, Delay of self testing in three types of programed text, J. Ed. Psychol, 65 & Conditioning in Drosophila melanogaster, Animal Behav, 67; auth, Comment on: Apparent reversal (oscillation) of rotary motion in depth, Psychol. Rev, 67. Address: Dept. of Psychology, Northern Illinois University, DeKalb, Ill. 60115.

HERSHENSON, DR. DAVID B(ERT), b. Boston, Mass, Aug. 30, 33; m. 57; c. 2. PSYCHOLOGY. A.B, Harvard, 55; A.M, Boston, 60, U.S. Pub. Health Serv. fel, 62-63, Ph.D.(psychol), 64. Counseling psychologist, State Univ. N.Y. Buffalo, 63-65, lectr. PSYCHOL, 64-65; asst. prof, ILL. INST. TECH, 65-67, ASSOC. PROF, 67- Proj. dir. rehab. counsr. training grant, Voc. Rehab. Admin, 66- Consult, VISTA, Jane Addams Training Center, 65-; Chicago State Hosp, 66-; Chicago Jewish Voc. Serv, Omper, 66-; Disabled Adult Residential Enterprises, 66- Nat. Rehab. Counseling Asn; Psychol. Asn; Personnel & Guid. Asn; Nat. Rehab. Asn. Vocational development process; adolescent personality development; counseling theory and practice; re-

habilitation of disabled; work attitudes. Publ: Stress-induced use of alcohol by problem drinkers, Quart. J. Studies Alcohol, 65; Sense of identity, occupational fit, and enculturation in adolescents & A life-stage vocational development system, J. Counseling Psychol, 67 & 68. Address: Dept. of Psychology, Illinois Institute of Technology, Chicago, Ill. 60616.

HERSHENSON, DR. MAURICE (EUGENE), b. Brooklyn, N.Y, May 27, 33; m. 55; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 55, M.A, 60; Ph.D.(psychol), Yale, 64. Asst. prof. PSYCHOL, WISCONSIN, 63-66, ASSOC. PROF, 66- U.S.A, 55-57. Perception; perceptual and cognitive development. Address: Dept. of Psychology, University of Wisconsin, Charter at Johnson, Madison, Wis. 53706.

HERSHER, DR. LEONARD, b. Lancaster, Pa, Mar. 30, 25; m. 48; c. 3. DEVELOPMENTAL PSYCHOLOGY. B.A, N.Y. Univ, 49; Ph.D.(psychol), Chicago, 56. Asst. psychol, Chicago, 50-54; instr. PEDIAT, COL. MED, STATE UNIV. N.Y. UPSTATE MED. CENTER, 54-59, asst. prof, 59-65, ASSOC. PROF, 65- U.S.A, 43-46. AAAS; Psychol. Asn; Soc. Res. Child Develop. Personality development in children; relationship to parental personalities; child-rearing behavior; parent-child interaction and child personality; species-specific maternal and infant behavior in mammals. Address: Dept. of Pediatrics, State University of New York Upstate Medical Center, Syracuse, N.Y. 13210.

HERSHEY, DR. GERALD LEE, b. Centerline, Mich, Mar. 7, 31; m. 54; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Mich. State, 57, M.A, 58, Ph.D, 61. Asst. psychol, Mich. State, 58, indust. psychol, labor & indust. fels. center, 58-59; ed. psychol, bur. ed. res, 59-60, asst. instr, 60-61; INSTR. PSYCHOL, FULLERTON JR. COL, 61- Vis. prof, Chapman Col, 64. U.S.A, 54-56, 1st Lt. Psychol. Asn. Research methodology in education; learning theory and emotions; counseling; implications of humanistic psychology in teaching. Publ: Co-auth, Accuracy of employee reports on changes in pay, J. Appl. Psychol. & Effectiveness of classroom observation, J. Ed. Res, 1/65. Address: Dept. of Psychology, Fullerton Junior College, 321 E. Chapman, Fullerton, Calif. 92634.

HERSHEY, DR. ROBERT, b. New York, N.Y, Nov. 14, 26; m. 52; c. 2. PSYCHOLOGY. B.S, City Col. New York, 47, M.S, 52; Ph.D.(psychol), N.Y. Univ, 56. Personnel dir, Maspeth div, BULOVA WATCH CO, 51-56, PERSONNEL MGR, WOODSIDE DIV, 64-, Bulova Res. & Develop. Labs, 56-64. Lectr, Brooklyn Col, 52-68; private practice, 60-; lectr, N.Y. Univ, 68- U.S.N, 45-46. Psychol. Asn. Industrial and clinical psychology. Publ: Contrib. to Mgt. Rev. & Indust. Med. & Surg; auth, The grapevine, Personnel-Am. Mgt. Asn, 1-2/66. Address: Bulova Watch Co, 62-10 Woodside Ave, Woodside, N.Y. 11377.

HERSHKOWITZ, DR. AARON, b. New York, N.Y, Dec. 2, 22; m. 49; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 47; M.A, New Sch. Soc. Res, 54; Ph.D. (psychol), Kansas, 54. Asst. prof. psychol, Kansas, 53-54; Buffalo, 55-58; Yale, 58-62; dir. soc. psychol. res, Vet. Admin. Hosp, West Haven, Conn, 58-62; ASSOC. PROF. SOC. PSYCHOL, FERKAUF GRAD. SCH, YESHIVA, 62- U.S.A, 43-46, Sgt. AAAS; Psychol. Asn; fel. Soc. Res. Child Develop. Child psychology; interpersonal relations; social perception. Publ: Forming impressions of personality. Address: Dept. of Psychology, Ferkauf Graduate School, Yeshiva University, 55 Fifth Ave, New York, N.Y. 10003.

HERSKO, DR. MARVIN, b. Brooklyn, N.Y, Sept. 29, 25; m. 48; c. 2. PSYCHOLOGY. B.S, City Col. New York, 49; Ph.D, Illinois, 53. Clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Miami, Fla, 54-57; sr. psychologist, Wis. Sch. for Girls, 57-65; PROF. PSYCHOL, WIS. STATE, WHITEWATER, 65- Consult, Div. Corrections, 65- U.S.A.A.F, 43-46. Psychol. Asn. Personality; psychotherapy. Publ: Effect of social class on the length and type of psychotherapy in a V.A. mental hygiene clin, J. Clin. Psychol; Changes in attitude towards self and others during group psychotherapy; Thematic analysis of an outpatient psychotherapy group. Address: 3508 Tallyho Lane, Madison, Wis. 53705.

HERSKOVETS, DR. BERNAT, b. Scranton, Pa, Sept. 13, 14; m; c. 2. PSYCHOLOGY. B.S, Arizona State, 62, Ph.D.(ed. psychol), 67. Asst. prof. PSYCHOL, KANS. STATE COL. PITTSBURG, 66-68, ASSOC. PROF, 68- Psychol. Asn. Social approval; behavior modification; verbal behavior. Address: 709½ E. Quincy, Pittsburg, Kans. 66762.

HERSKOVITS, PROF. MELVILLE J(EAN), Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 63.

HERSTEIN, SY CHARLES, b. New York, N.Y, Nov. 29, 21; m. 50; c. 2. PSYCHOLOGY. B.S, N.Y. Univ, 46; M.A, New Sch. Soc. Res, 53. Psychologist-counsr, Cincinnati Jewish Voc. Serv, 53-58; REHAB. PSYCHOLOGIST, VOC. REHAB. SERV, DEPT. REHAB, STATE OF CALIF, 58- Rehab. psychologist, Arroyo Del Valle Sanatorium, Calif, 55-58. U.S.A.A.F, 42-45, Sgt. Psychol. Asn. Rehabilitation psychology; use of testing devices; predictive devices; vocational guidance; counseling. Publ: Teenagers teach themselves & Blueprint for psychological testing, Voc. Guid. Quart. Address: 1708 Lake St, San Francisco, Calif. 94121.

HERTZ, PROF. KARL H(ERBERT), b. Medicine Hat, Alta, Apr. 9, 17; m. 47; c. 2. SOCIOLOGY. A.B, Capital Univ, 37; A.M, Brown, 38; Ph.D, Chicago, 48. Instr. SOCIOL, Capital Univ, 38-42, asst. prof, 48-53; assoc. prof, WITTENBERG, 53-60, prof, 60-63, chmn. dept, 59-63, PROF. CHURCH & SOC, HAMMA SCH. THEOL, 67- Sociol. Asn; Soc. Sci. Study Relig. Am. civilization; sociology of religion; urban society. Address: Hamma School of Theology, Wittenberg University, Springfield, Ohio 45501.

HERTZ, PROF. LEWIS, b. Flint, Mich, Jan. 16, 27. PSYCHOLOGY. A.B, Eastern Michigan, 47; M.A, Iowa, 49; Ph.D.(psychol), Wisconsin, 55. Clin. psychologist, Jacksonville State Hosp, Ill, 49-50; U.S. Dept. Army, 50-52; counsr, student counseling center, Wisconsin, 53-55; instr. PSYCHOL, ARIZONA, 55-57, asst. prof, 57-62, ASSOC. PROF, 62-, ASST. DIR, STUDENT COUNSELING BUR, 59-, counsr, 55-59. Regional rep, Personnel Assocs, 60-61; private practice, 61-; field psychologist, Personnel Psychol. Center & Sales Aptitude Testing Corp, 61- Consult. clin. psychologist, Pima County Juvenile Court, 59-; South. Ariz. Ment. Health Center, 65; consult. psychologist, Far West. Placement Bur, 65; consult. clin. psychologist, Palo Verde Clin. & Hosp, 66; Ariz. Youth Center, 67- AAAS; Psychol. Asn; Personnel & Guid. Asn. Psychological diagnosis and evaluation; career planning; personnel selection; personality dynamics; psychotherapy; juvenile delinquency. Address: Dept. of Psychology, University of Arizona, Tucson, Ariz. 85721.

HERTZ, PROF. M(ARGUERITE) R, b. New York, N.Y, Aug. 31, 99. PSYCHOLOGY. A.B, Hunter Col, 18; A.M, Western Reserve, 27, Ph.D, 31. From asst. prof. to PROF. PSYCHOL, GRAD. SCH, CASE WESTERN RESERVE, 37- AAAS; Psychol. Asn; Soc. Proj. Tech.(former pres); Rorschach Int. Soc. Child development; brain impairment; psychopathology; personality measurement and diagnosis; Rorschach ink-blot method. Address: Dept. of Psychology, Case Western Reserve University, Cleveland, Ohio 44106.

HERTZBERG, H(ANS) T(HEODORE) E(DWARD), b. San Antonio, Tex, Sept. 18, 05; m. 41; c. 2. PHYSICAL ANTHROPOLOGY. A.B, Rice Inst, 27; Texas, 31-33; A.M, Harvard, 42. Chief ANTHROP. SECT, AEROSPACE MED. RES. LABS, AEROSPACE MED. DIV, WRIGHT-PATTERSON AIR FORCE BASE, DAYTON, OHIO, 46-66, RES. PHYS. ANTHROPOLOGIST, 66- Mem, cmt. phys. anthrop, Nat. Acad. Sci. & Nat. Res. Coun, 57; chmn. cmt. anthropom, aerospace med. panel, adv. group aeronautical res. & develop, NATO, France, 59-64, chief anthropom. surv, 60-61. Except. Civilian Serv. award, Wright-Patterson Air Force Base, 63. U.S.A.A.F, 43-45. Asn. Phys. Anthrop; Anthrop. Asn; Human Factors Soc; Archaeol. Inst; Soc. Psychical Res. Applied physical anthropology; anthropometry, domestic and foreign; biomechanics; the acoustical analysis of stringed instruments. Publ: Co-auth, Anthropometry of flying personnel—1950; Anthropometric survey of Turkey, Greece and Italy; auth, The conference on standardization of anthropometric techniques and terminology, Am. J. Phys. Anthrop, (in press). Address: 120 Kurt St, Yellow Springs, Ohio 45387.

HERTZBERG, PROF. OSCAR E(DWARD), Ed. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

HERTZKA, DR. ALFRED F(ELIX), b. Vienna, Austria, Sept. 3, 19; nat; m. 45; c. 2. PSYCHOLOGY. A.B, Southern California, 49, A.M, 50, Ph.D.(psychol), 53. Asst. psychol, Southern California, 50-53; res. psychologist, U.S. Dept. Navy, 53-56; assoc. soc. scientist, Rand Corp, 56-57; human factors scientist, Syst. Develop. Corp, 57-66; SR. ENG. SPECIALIST, LITTON SYSTS, INC, 66- C.Eng, U.S.A, 41-46. Fel. Psychol. Asn; Psychomet. Soc. Quantitative methods in psychology; statistics; criterion development; system design. Publ: Co-auth, Logical reasoning; A factor-analytic study of evaluative abilities; Systematic error in estimates of a phi coefficient, Ed. Psychol. Measurement. Address: 3411 Grand View Blvd, Los Angeles, Calif. 90066.

HERTZLER, PROF. J(OYCE) O(RAMEL), b. Jordan, Minn, Jan. 20, 95. SOCIOLOGY. A.B, Baldwin-Wallace Col, 16; Harvard, 16-17; A.M, Wisconsin, 19, Ph.D, 20. Asst. instr. SOCIOL, Wisconsin, 19-20, instr, 20-23, asst. prof, 23; prof, NEBRASKA, 23-61, chmn. dept, 28-50, EMER. PROF, 61- Sociol. Asn; Pop. Asn; Acad. Polit. & Soc. Sci. History of social thought; social theory and institutions; world population. Publ: Social thought of the ancient civilizations; Crisis in world population; A sociology of language, Random, 65. Address: Dept. of Sociology, University of Nebraska, Lincoln, Nebr. 68508.

HERTZLER, PROF. SILAS, b. Baltimore, Md, July 27, 88; m. 24; c. 5. PSYCHOLOGY. B.A, Goshen Col, 13; Garrett Biblical Inst, 15-16; B.D, Yale, 17, Ph.D.(ed), 27; M.A, Columbia, 18; Union Theol. Sem, 18-19. Instr, Mennonite Col. Inst, Man, Can, 13-15; relief worker, Near East Relief, Palestine & Syria, 19-20; asst. prof. philos. & psychol, Goshen Col, 20-23; prof. philos. & ed, Hesston Col, 23-24; ED. & PSYCHOL, GOSHEN COL, 24-58, head dept, 27-56, registr, 28-36, dir. summer session, 29-45, teacher ed, 31-56, chmn. teacher training div, 38-56, EMER. PROF, 58- Vis. prof, Phillips, 28; prof. & head dept. ed, Tabor Col, 60-64. Mem, Mennonite Bd. Ed, 31-45. Psychol. Asn; Philos. Ed. Soc. History of education, especially secondary; public high schools; philosophy of education. Publ: Rise of the public high school in Connecticut; Hertzler-Hartzler family history. Address: 1618 S. Eighth St, Goshen, Ind. 46526.

HERTZMAN, DR. M(AX), Psychol, see 10th ed, Soc. & Behav. Vols.

HERVEY, DR. JACK L(EE), b. Tecumseh, Nebr, Dec. 31, 38; m. 61. ECONOMICS. B.S, Minnesota, 60; M.S, Nebraska, 63; Ph.D.(agr. econ), Mich. State, 66. Res. assoc. AGR. ECON, MICH. STATE, 66, ASST. PROF, 66- Econ. Asn; Agr. Econ. Asn. Agricultural trade policy and labor productivity; economics of demographic characteristics of the population. Publ: A regional analysis of the effects of age, education and occupation on median income, J. Regional Sci, Vol. 6, 2. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

HERZ, DR. HENRY, b. New York, N.Y, Feb. 1, 04; m. 34; c. 2; m. 43; c. 3. ECONOMICS. B.S, N.Y. Univ, 36, M.B.A, 39, Ph.D.(econ), 51. Economist, Bd. Pub. Utility Cmnrs, N.J, 42-46; CONSULT. ECONOMIST, 46- Assoc, Foster Assoc, Inc, 62- Econ. Asn; Economet. Soc; Statist. Asn. Public utility finance and rate regulation; the structure of costs for public utilities and other large firms. Address: 6926 Wilson Lane, Bethesda, Md. 20034.

HERZ, PROF. JOHN H(ERMANN), b. Duesseldorf, Germany, Sept. 23, 08; nat; m. 41; c. 1. POLITICAL SCIENCE. Ph.D, Cologne, 31; fel, Grad. Inst. Int. Studies, 35-38, dipl, 38. Res. asst, Princeton, 38-39; instr, Trinity Col, 40; mem, Inst. Adv. Study, 40-41; instr. & lectr, Howard, 41-43, prof. govt, 48-52; res. analyst, Off. Strategic Serv. & U.S. Dept. State, 43-48; assoc. prof. GOVT, CITY COL. NEW YORK, 52-60, PROF, 60- Vis. prof, Columbia, 52, 57, 66; mem. grad. faculty, New Sch. Soc. Res, 53, 58; Rockefeller Found. fel, 54-55, 63-64; Fulbright prof, Free Univ. Berlin, 60; vis. prof, Fletcher Sch. Law, 62; mem. doctoral faculty City Univ. New York, 65-; vis. prof, Marburg, 68. Soc. Sci. Res. Coun. award, 48-49; Woodrow

Wilson Found. award, 51. Polit. Sci. Asn; Soc. Int. Law. International relations; German affairs; political theory. Publ: Major foreign powers; International politics in the atomic age; political realism and political idealism. Address: 193 Nelson Rd, Scarsdale, N.Y. 10583.

HERZBERG, PROF. FREDERICK IRVING, b. Lynn, Mass, Apr. 18, 23; m. 44; c. 1. PSYCHOLOGY. B.S.S, City Col. New York, 46; M.S, Pittsburgh, 48, Ph.D.(psychol), 50, M.P.H, 51. Asst, Pittsburgh, 46-48, instr. psychol, 49-51; prin. personnel adminstr, City of Richmond, Va, 48-49; res. dir, Psychol. Serv. of Pittsburgh, 51-57; assoc. prof. PSYCHOL, CASE WESTERN RESERVE, 57-60, PROF. & CHMN. DEPT, 60- Consult, asst. chief of staff, U.S.A.F, 66- U.S.A, 44-46. Psychol. Asn. Job attitudes; mental health; executive assessment. Publ: Work and the nature of man, World, 66; Job attitudes, review of research and opinion; Motivation to work. Address: Dept. of Psychology, Case Western Reserve University, Cleveland, Ohio 44106.

HERZBERG, DR. PAUL A(LBIN), b. Saskatoon, Sask, Sept. 23, 36; m. 64. PSYCHOLOGY. B.A, Queen's (Ont), 58; A.M, Princeton, 61; Ph.D.(psychol), Illinois, Urbana, 67. Lectr. PSYCHOL, YORK, 66-67, ASST. PROF, 67- AAAS. Statistics and psychological measurement. Address: Dept. of Psychology, York University, 4700 Keele St, Downsview, Ont, Can.

HERZEL, WILLIAM G(EORGE), b. McCracken, Kans, June 19, 06; m. 39; c. 4. ECONOMICS. A.B, Transylvania Col, 33; Chicago, 37-39. Instr, Tenn. Valley Authority, 34-37; asst. bur. bus. res, Kentucky, 39-40; DIR. RES. STATE DEPT. REVENUE, KY, 41- Consult, Nicaragua, 53; Israel, 54-55; tax consult, Ecuador, 62. Address: State Dept. of Revenue, Frankfort, Ky. 40601.

HERZFELD, HERBERT C(LAUS), b. Berlin, Germany, Dec. 27, 28; nat; m. 58. ECONOMICS, BUSINESS ADMINISTRATION. B.Sc, Houston, 57, M.B.A, 67; fel, Stanford, 57-58, A.M, 58. Asst. to dir, Agr. Econ. Mission, Ecuador, 50-52; mgr. rice mkt, Crispin Co, Tex, 52-54; private practice, 58-59; instr. int. econ. develop. & consult, San Francisco State Col, 59; sr. economist int. mfg. & mkt, Deere & Co, Ill, 59-61; mgr. new prod. planning, Anderson, Clayton & Co, 62-65; real estate, Ringer Properties, 65-67; MGR. SALES & APPRAISALS, HERZFELD CO, 67- Instr, Univ. Houston, 65- Sig.C, U.S.A, 54-56. Production, nutritional characteristics, processing, storage, distribution and consumption of rice and other foods, feeds and fibers. Publ: Rice fermentation in Ecuador, Econ. Bot; Rice autarky for Panama, Inter-Am. Econ. Affairs; Patterns in rice production, Univ. Houston Bus. Rev. Address: 3619 Durness Way, Houston, Tex. 77025.

HERZOG, ELIZABETH (MRS. RALPH K. WHITE), b. Mt. Vernon, N.Y, May 17, 03; m. 54. SOCIAL PSYCHOLOGY. Ph.B, Chicago, 23. Head cor. panels sect, Off. War Info. & U.S. Bur. Budget, 42-47; analyst & ed, Res. in Contemporary Cultures, Columbia, 48-50; dir. res, Jewish Family Serv, Inc, 50-54; from asst. chief tech. studies br. to CHIEF CHILD LIFE STUDIES BR, DIV. RES, CHILDREN'S BUR, U.S. DEPT. HEALTH, ED. & WELFARE, 54- Consult, State Cmt. Ment. Hyg, N.Y, 47-48. Sociol. Asn; Anthrop. Asn; Asn. Pub. Opinion Res; Asn. Soc. Workers. Evaluation; social work research; social problems. Publ: Co-auth, Life is with people; auth, About the poor: some facts and some fictions, Children's Bur, Dept. Health, Ed. & Welfare, 68; Is there a breakdown in the Negro Family, Soc. Work, 66. Address: 560 N St. S.W, Washington, D.C. 20024.

HERZOG, PROF. GEORGE, b. Budapest, Hungary, Dec. 11, 01; nat; m. ANTHROPOLOGY. Royal Acad. Music, Hungary, 17-19; Sch. Music, Germany, 20-22; Bonn, 22-24; Ph.D.(anthrop), Columbia, 31. Res. assoc. anthrop, Chicago, 30-32; Yale, 32-35; Guggenheim fel, 35-36; asst. prof. ANTHROP, Columbia, 37-48; prof, INDIANA, 48-62, EMER. PROF, 62- Res. assoc, Library Cong, 42-44; Guggenheim fel, 47. Mem. Univ. Chicago, Anthrop. Exped, Liberia, 30. Fel. Anthrop. Asn; Musicol. Soc; Ling. Soc; fel. Folklore Soc.(assoc. ed, 38-43); Ethnomusicol. Soc. Ethnomusicology; African ethnology; communication studies; European folk cultures. Publ: Jabo proverbs: maxims in the life of a native tribe in Liberia; co-auth, The cowtail switch and other West African tales. Address: 107 W. Pleasant Run Pkwy, South Dr, Indianapolis, Ind. 46225.

HERZOG, DR. JOHN P(HILLIP), b. Canton, Ohio, Aug. 28, 31; m. 56; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. B.S, California, Berkeley, 58, Ph.D.(bus. admin), 62. Asst. prof. commerce, Wisconsin, 61-65; ASSOC. PROF. BUS. ECON, CLAREMONT GRAD. SCH, 65- Mem. res. staff, Nat. Bur. Econ. Res, 63-; summer participant, Ford Found. Workshop Finance, Harvard Bus. Sch, 67. U.S.A.F, 50-54. Econ. Asn; Finance Asn; Real Estate & Urban Econ. Asn. Large-scale housebuilding; residential mortgage finance; yields on corporate securities; corporate financial policy. Publ: The dynamics of large-scale housebuilding, Univ. California, 62; co-auth, Home mortgage delinquency and foreclosure, Nat. Bur. Econ. Res, 68; auth, Yields on corporate securites, J. Finance, 3/64. Address: Dept. of Business Economics, Claremont Graduate School, Claremont, Calif. 91711.

HERZOG, PAUL E(UGENE), Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols.

HERZOG, DR. PAUL M, b. New York, N.Y, Aug. 21, 06; m. 29, 59; c. 2. INDUSTRIAL RELATIONS, EDUCATION. S.B, Harvard, 27; M.A, Wisconsin, 30; LL.B, Columbia, 36; hon. LL.D, Hobart & William Smith Cols, 59. Instr. govt, Harvard, 30-31; asst. secy, Nat. Labor Rel. Bd, D.C, 33-35; chmn, 45-53; mem. & chmn, State Labor Rel. Bd, N.Y, 37-44; assoc. dean grad. sch. pub. admin, Harvard, 53-57; pres. & exec. v.pres, Am. Arbit. Asn, 58-63; PRES, SALZBURG SEMINAR AM. STUDIES, 65- U.S.N.R, 44-45, Lt. Comdr. Soc. Pub. Admin.(v.pres, 56). Public administration; law. Address: 14 E. 75th St, New York, N.Y. 10021.

HERZOG, DR. STEPHEN J, b. Chicago, Ill, Sept. 17, 38; m. 62; c. 2. POLITICAL SCIENCE. B.A, California, Los Angeles, 60, Falk fel. & M.A, 63, Scott & Patent Fund fels. & Ph.D.(polit. sci), 67; Ohio State, 60-61. Instr. POLIT. SCI, Los Angeles City Col, 63-64; Ventura Col, 64-67; HEAD DEPT, MOORPARK COL, 67- Instr. hist, Santa Monica City Col, 63-64. Polit. Sci. Asn. Public attitudes toward the law and law enforcement; conflict between minority groups and law enforcement officials. Address: 3561 Calle Quebracho, Thousand Oaks, Calif. 91360.

HESKIN, PROF. OSCAR EDWARD, b. Portland, N.Dak, Dec. 19, 99. ECONOMICS. A.B, Luther Col, 22; Wisconsin, 24-25; Thayer scholar, Harvard, 27-28; A.M, Minnesota, 28, Ph.D, 37. Asst, Minnesota, 25-27, instr, 28-38; asst. prof. ECON, FLORIDA, 38-41, assoc. prof, 41-46, PROF, 46-, head dept, 49-52. Chief manufactured food sect, U.S. Bur. Census, D.C, 44; sr. economist, Off. Alien Property Custodian, 44; attaché, U.S. Embassy, Norway, 45-46; consul, Am. Consulate Gen. Shanghai, China, 48; chief, strategic materials sect, Am. Embassy, Pakistan, 52-53, sr. econ. adv, Egypt, 54, chief prog. officer, Libya, 55-56, sr. econ. adv, Jordan, 57-58. Econ. Asn. Economic aspects of history of banking in North Dakota; cartels as instruments of aggressive diplomacy. Address: 701 N.W. 22nd St, Gainesville, Fla. 32601.

HESLIN, DR. RICHARD, b. Providence, R.I, Jan. 5, 36; m. 57; c. 3. SOCIAL PSYCHOLOGY. Ed.B, R.I. Col, 57; California, Berkeley, 60-61; A.M, Harvard, 63; Ph.D.(psychol), Colorado, 66. Sci. staff. mem, inst. naval studies, center naval anal, Franklin Inst, Pa, 62-63; ASST. PROF. PSYCHOL, PURDUE, 66- Summers, res. asst, Ft. Logan Ment. Health Center, Denver, Colo, 66, consult, West. Interstate Cmn. Higher Ed, 66. U.S.N, 57-60, Lt. Psychol. Asn. Communication source and discrepancy; cognitive changes over time following communication; selective exposure; characteristics of avoiders; attitude change theory; member satisfaction; group effectiveness. Publ: Predicting group task effectiveness from member characteristics, Psychol. Bull, 64; co-auth, Three dimensions of member satisfaction in small groups, Human Rels, 64; Variations in flexibility and creativity as a function of hypnotically induced past histories, In: Experience structure and adaptability, Springer, 66. Address: Dept. of Psychology, Purdue University, West Lafayette, Ind. 47907.

HESS, DR. ALBERT G(UNTER), b. Pirna, Germany, Mar, 1, 09; nat; m. 60; c. 1. CRIMINOLOGY. Dr. jur. utr, Leipzig, 34. Case worker, Juvenile Court Agency, Germany, 30-32; district court judge, Ministry of Justice, Dresden, 32-33; corp. lawyer, Chemische Fabrik, Pirna, 33-37; mgr, Bur. Cent. d'Exportation Budex, Brussels, Belgium, 37-40; mem. staff, Goddard Col, 42-43; faculty mem, Mohawk Col. & Cazenovia Jr. Col, 46-50; asst. prof. humanities, Minnesota, 50-55; soc. affairs officer, sect. soc. defense & div. human rights, UN, 59-60; DIR, INT. & PROJ. SERV, NAT. COUN. CRIME & DELINQUENCY, 60- Res. grants, greater univ. fund, 53, Ford Found, 61. Managing ed, Musurgia Publishers, N.Y, 46-50; exec. ed, Excerpta Criminologica, 61- Rep. Int. Soc. Criminol. & Cazenovia Jr. Col, 46-50; asst. prof. humanities, Minnesota, 50-55; soc. affairs officer, sect. soc. defense & div. human rights, UN, 59-60; DIR, INT. & PROJ. SERV, NAT. COUN. CRIME & DELINQUENCY, 60- Res. grants, greater univ. fund, 53, Ford Found, 61. Managing ed, Musurgia Publishers, N.Y, 46-50; exec. ed, Excerpta Criminologica, 61- Rep. Int. Soc. Criminol. & Int. Asn. Penal Law, UN Hq; mem. int. adv. cmt, Comp. Criminal Law Proj, 67- Mil. Intel, U.S.A, 42-45. Sociol. Asn; Soc. Criminol.(v.pres, 66-); Asn. Psychiat. Treatment of Offenders; Renaissance Soc. Am; Int. Asn. Penal Law; Int. Soc. Criminol. History of juvenile delinquency; use of historical methodology in criminology, especially for present day problems. Publ: Criminal statistics: standard classification of offences, UN, 59; The young adult offender: a review of current practices and programmes in the prevention and treatment, UN, 65; Chasing the dragon: a report on drug addiction in Hong Kong, N.Holland Pub. Co. & Macmillan, 65. Address: National Council on Crime & Delinquency, 44 E. 23rd St, New York, N.Y. 10010.

HESS, DR. ARLEIGH P(ORTER), JR, b. Pitman, N.J, Feb. 16, 18; m. 42; c. 3. ECONOMICS. B.S, Pennsylvania, 39, A.M, 41, Ph.D.(econ), 49. Instr. ECON, PENNSYLVANIA, 39-41, 46-49, asst. prof, 49-55, ASSOC. PROF, 55-, DIR. SUMMER SCH. & COL. GEN. STUDIES, 55-61, 65-, v.provost, 61-65. Lectr, Swarthmore Col, 48-51. U.S.N.R, 41-46, Comdr. Econ. Asn. Corporation finance. Publ: Co-ed, Outside readings in economics; co-auth, Value of the call privilege; co-auth, Investment banking and the new issue market, World 67. Address: 15 College Hall, University of Pennsylvania, Philadelphia, Pa. 19104.

HESS, DR. CHARLES F, b. Amsterdam, Netherlands, Mar. 21, 31; U.S. citizen; m. 62; c. 1. GEOGRAPHY. B.A, Mich. State, 59, Nat. Sci. Found. coop. fel. & Ph.D.(geog), 64; Woodrow Wilson fel. & M.S, Wisconsin, 60; Fulbright fel, Copenhagen, 61-62. Instr. GEOG, Temple, 62-64, asst. prof, 64-65; WYOMING, 65-68, ASSOC. PROF, 68- Consult, Peter Bredsdorffs Tegnestue, A/S, Copenhagen, Denmark, 61-62. Mil. Intel, U.S.A, 53-55. Asn. Am. Geog; Am. Geog. Soc; Pop. Asn. Am; Royal Danish Geog. Soc. Geography of Northwest Europe; population geography; regional planning and resource perception. Publ: Co-auth, State water planning recommendations, Wyo. Natural Resource Bd, 66; auth, Geographical aspects of consumer behavior in the retail service area of Greater Aalborg, Geografisk Tidsskrift, 66. Address: Dept. of Geography, Box 3371, University of Wyoming, Laramie, Wyo. 82070.

HESS, DEAN D(EA) WILSON, b. Berwick, Pa, Oct. 16, 21. PSYCHOLOGY. A.B, Wabash Col, 50; Ph.D.(clin. psychol), Rochester, 60. Trainee clin. psychol, Vet. Admin, 50-54; consult. psychologist, Rochester Sch. Deaf, 54-65; sr. instr. PSYCHOL, depts. psychiat. & pediat, sch. med. & dent, Rochester, 60-65; PROF, GRAD. SCH, GALLAUDET COL, 65-, DEAN, 67- U.S.A, 42-45, Sgt. Psychol. Asn. Handicapped children, especially deaf children; nonverbal assessment of intelligence and personality development. Address: Gallaudet College Graduate School, Florida Ave. & Seventh St. N.E, Washington, D.C. 20002.

HESS, DR. E(CKHARD) H(EINRICH), Org. Chem, Psychol, see 11th ed, Phys. & Biol. Vols.

HESS, DR. HARRIE F(OX), b. Hammond, Ind, Mar. 1, 29; m. 50; c. 1. PSYCHOLOGY. B.A, Nevada, 52; U.S. Pub. Health Serv. fel, Colorado, 55-59, M.A, 57, Ph.D.(psychol), 59. Instr. psychol. med. sch, Oregon, 59-60; clin. psychologist, Spec. Children's Clin, State Dept. Health, Nev, 60-64; chief psychologist, Community Child Guid. Clin, 64-65; assoc. prof. PSYCHOL, NEVADA SOUTHERN, 65-68, PROF. & CHMN. DEPT, 68- Lectr, Nevada, 61- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 52-55, Res, 55-, 2nd Lt. Psychol. Asn. Personality theory; social learning theory; gambling behavior. Publ: Effectiveness of concepts at various levels of awareness, J. Exp.

Psychol; Influence of reinforcement value upon rate of learning and asymptotic level of expectancies, J. Gen. Psychol; Level of aspiration behavior and general adjustment: an appraisal of some negative findings, Psychol. Reports. Address: Dept. of Psychology, Nevada Southern University, Las Vegas, Nev. 89109.

HESS, HERMAN, b. New York, N.Y, Jan. 30, 20; m. 45; c. 2. STATISTICS. B.B.A, City Col. New York, 47; Columbia, 48; U.S. Dept. Agr. Grad. Sch, 50-54. Economist, bus. div, U.S. Bur. Census, 49-50, math. statistician, pop. & indust. div, 50-54, chief programmer, indust. div, 54-57, math. statistician, statist. res. div, 57-59; systs. engr, Thompson-Ramo-Wooldridge, Inc, 59-62; sr. syst. analyst, Informatics, Inc, 62-66; MGR. SUPPORT SOFTWARE, LITTON INDUSTS, INC, 66- U.S.A, 42-45. AAAS; Statist. Asn; Asn. Comput. Mach. Computer software systems. Publ: A comparison of discs and tapes of communications, Asn. Comput. Mach, 10/63. Address: 5909 Manton Ave, Woodland Hills, Calif. 91364.

HESS, DR. J(OHN) DANIEL, b. Lancaster, Pa, Dec. 5, 37; m. 59; c. 2. MASS COMMUNICATION, ENGLISH. A.B, East. Mennonite Col, 59; M.S, Syracuse, 62, Ph.D.(mass commun), 65. Asst. dir. vol. serv, Mennonite Bd. Missions & Charities, 59-61; ASSOC. PROF. ENG, GOSHEN COL, 64- Asn. Ed. in Journalism; Nat. Coun. Teachers of English. Communication philosophy; the role of newspapers and television in society. Publ: Writing to a reader, Goshen Col, 67; Once again, let's talk about writing, Ind. Eng. J, winter 67; TV and Yellow Creek Mennonites, Christian Living, 11-12/67 & 1/68. Address: 627 S. Sixth St, Goshen, Ind. 46526.

HESS, PROF. JOHN M(ILTON), b. Grand Island, Nebr, Dec. 24, 29; m. 50; c. 3. MARKETING, SOCIAL PSYCHOLOGY. B.S, Iowa, 51; M.B.A, Oregon, 55; Ph.D.(mkt), Stanford, 59. PROF. MKT, COLORADO, 57-, faculty fel, 65-66. Dir, Mkt. Theory Seminar, 55- U.S.A.F, 51-53, 1st Lt. Mkt. Asn. Business ethics; international business; industrial marketing; advertising and buyer psychology. Publ: Trade-in housing mgt, Stanford, 60; co-auth, The industrial marketing environment, Colorado, 64; International marketing, Irwin, 66. Address: Dept. of Marketing, University of Colorado School of Business, Boulder, Colo. 80302.

HESS, DR. LAWRENCE W(ILLIAM), b. Avilla, Ind, Oct. 17, 00; m. 52. GUIDANCE. B.A, Indiana, 25, M.A, 28; scholar & Ph.D.(voc. guid, personnel), Michigan, 47. Dir. City Sch. Guid. Prog, 36-42; voc. counsr. & chief counseling serv, Vet. Admin, 46-49; DIR, FT. WAYNE VOC. GUID. & COUNSELING SERV, 49- Consult, 54- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 42-46, Capt. Psychol. Asn; Personnel & Guid. Asn; Acad. Relig. & Ment. Health. Vocational guidance testing; dissemination of occupational information; mental health. Publ: Do I know how to apply for a job?; Guidance for a career, 68 & General aptitude test, 68, Test Co. Am. Address: 2510 Farnsworth Dr, Apt. 103, Ft. Wayne, Ind. 46805.

HESS, PROF. ROBERT D(ANIEL), b. Iowa, Mar. 10, 20; m. 49; c. 4. SOCIAL PSYCHOLOGY. A.B, California, 47; Ph.D.(human develop), Chicago, 50. Asst, cmt. human develop, Chicago, 47-49, secy. & instr. human develop, 49-53, from asst. prof. & dean students, div. soc. sci. to assoc. prof. human develop. & ed, 53-67, chmn. cmt. human develop, 53-65, dir. urban child center, 65-67; LEE JACKS PROF. CHILD ED, STANFORD, 67- Res. fel, Center Adv. Study Behav. Sci, 66-67. AAAS; Sociol. Asn; Soc. Res. Child Develop; Ed. Res. Asn. Socialization; child psychology; education. Publ: Sr. auth, Family worlds, Univ. Chicago, 59; The development of political attitudes in children & Early education: report of research theory and action, Aldine, 67. Address: School of Education, Stanford University, Stanford, Calif. 94305.

HESS, DR. SIDNEY WAYNE, b. Ames, Iowa, Oct. 21, 32; m. 54; c. 3. OPERATIONS ANALYSIS. B.S, Mass. Inst. Tech, 53; Fulbright fel, Delft, 53-54; Ph.D.(opers. res), Case, 60. Chem. engr, Union Carbide Chem. Co, W.Va, 54; asst, opers. res. group, Case, 56-59; opers. res. analyst, Atlas Chem. Industs, Inc, 59-61, Mgr. OPERS. RES, 61-66; ASSOC, WHARTON SCH, PENNSYLVANIA, 66- Ford Found. res. grant, 65-; summers, jr. chem. engr, Midwest Res. Inst, 51-53. Chem.C, 54-56, 1st Lt. AAAS; Opers. Res. Soc; Inst. Mgt. Sci; Inst. Elec. & Electronics Eng. Operations research, especially in research and development; marketing and planning; methodology of operations research; nonpartisan political districting; risk analysis. Publ: A dynamic programming approach to research and development budgeting and project selection, Inst. Radio Engrs. Transactions on Eng. Mgt, 62; co-auth, A procedure for nonpartisan districting: development of computer techniques, Yale Law J, 12/63; auth, Use of models in marketing timing decisions, Opers. Res, 7, 8/67. Address: Dept. of Statistics & Operations Research, Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

HESSELBERG, PROF. A(RTHUR) KENNETH, b. Brockton, Mass, June 11, 16; m. 42. POLITICAL SCIENCE. A.B, St. Anselm's Col, 38; M.A, New Hampshire, 48; Ph.D, Catholic Univ, 52. Asst. int. law & rel, Catholic Univ, 50-51; asst. prof. POLIT. SCI, DUQUESNE, 52-56, assoc. prof, 56-60, PROF, 60-, CHMN. DEPT, 56- U.S.M.C, 38-45, Res, 46-52. Political theory, history of political thought; history of ideas, especially natural law theory of the state. Publ: Conception of civil government of the early fathers & Hume, natural law and justice, Duquesne Rev; Fossil man and evolution, Sci. Counsr. Address: Dept. of Political Science, Duquesne University, Pittsburgh, Pa. 15219.

HESSERT, PROF. ROBERT BERNARD, b. Williamsport, Pa, Jan. 14, 26; m. 49; c. 2. EDUCATIONAL & INDUSTRIAL PSYCHOLOGY. B.A, Pa. State, 50, M.S, 52; Ph.D.(psychol), Pittsburgh, 61. Asst. psychologist, Harrisburg State Hosp, 51-52; supvr. indust. serv, Pa. State Employ. Serv, 52-53; selection & placement, Pittsburgh Plate Glass Co, 56-59; res. asst. PSYCHOL, Univ. Pittsburgh, 59-61; asst. prof, Pa. State, 61-63; PROF, Parsons Col, 63-67; Clarion State Col, 67-68; ASHLAND COL, 68- Summer vis. assoc. prof, State Univ. N.Y. Buffalo, 67. Consult, state ed. dept, div. res, State Univ. N.Y, 66-67. U.S.N.A.F, 43-46. Psychol. Asn; Ed. Res. Asn. Test validation; verbal and programmed learning. Publ: A comparison of three methods of programming study material for auto-instruction, In: Investigations of the characteristics of programmed learning sequences, 61; co-auth, Calibrated materials for verbal learning with middle-and old-age subjects, Am. J. Psychol, 12/57. Address: Dept. of Psychology, Ashland College, Ashland, Ohio 44805.

HESSION, PROF. C(HARLES) H, b. Brooklyn, N.Y, May 1, 11; m. 46; c. 4. ECONOMICS. A.B, City Col. New York, 32; A.M, Columbia, 33, Ph.D, 48. Instr, BROOKLYN COL, 34-50, asst. prof. ECON, 50-53, assoc. prof, 53-65, PROF, 65-, CHMN. SOC. SCI. COURSE, 64- Consult, U.S. Dept. Justice, 60-63. U.S.A, 42-45. Econ. Asn; Econ. Hist. Asn. Industrial price policy; American economic history; psychocultural analysis of American business leadership. Publ: Co-auth, Dynamics of the American economy; auth, The mobile motor carriers, (in press). Address: 1122 E. 31st St, Brooklyn, N.Y. 11210.

HESSLER, DR. WILLIAM H(ENRY), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

HESSLINK, DR. GEORGE K, b. Sheboygan, Wis, June 10, 40; m. 61; c. 1. SOCIOLOGY. B.A, Northwestern, 61; M.A, Chicago, 63, Ph.D.(sociol), 66. Resident lectr. SOCIOL, Indiana, 63-65, ASST. PROF, 65-66; RUTGERS, 66- Sociol. Asn. Race relations and urban sociology. Publ: Black neighbors: Negroes in a northern rural community, Bobbs, 68. Address: Dept. of Sociology, Rutgers, The State University, New Brunswick, N.J. 08903.

HESTER, PROF. DONALD D(ENISON), b. Cleveland, Ohio, Nov. 6, 35; m. 59; c. 2. ECONOMICS. B.A, Yale, 57, M.A, 58, Sterling fel, 58-59, Am. Bankers Asn. Stonier fel, 59-60, Ph.D.(econ), 61. Instr. ECON, Yale, 60-61, asst. prof, 61-65, assoc. prof, 65-68; PROF, WISCONSIN, MADISON, 68- Vis. jr. prof, Univ. Bombay, 62-63; Ford Found. faculty fel. econ, 67-68. Consult, Fed. Home Loan Bank Bd, D.C, 64- Am. Econ. Asn; Econom. Soc; Inst. Mgt. Sci; Indian Econ. Asn. Multivariate statistical studies of financial institutions; debt instruments; theory of portfolio selection; construction and simulation of aggregative econometric models; statistical inference; adaptive control processes; theory of consumer behavior. Publ: Indian banks: their portfolios, profits, and policy, Univ. Bombay, 64; co-auth, Risk aversion and portfolio choice, Wiley, 67; The relation between bank portfolios and earnings: an econometric analysis, Rev. Econ. & Statist, 11/66. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

HESTER, DR. GEORGE C(OON), b. Burnet, Tex, Oct. 13, 96. GOVERNMENT. A.B, N.Tex. State Teachers Col, 20; A.M, Colo. State Teachers Col, 25; summers, Colorado, 21, 28; Texas, 28, 29; LL.D, Oklahoma City, 46. Prof. hist. & govt. & head dept, Southwestern (Tex), 25-65; RETIRED. Econ. analyst, Fed. Power Cmn, 35-36, consult. economist, 36; econ. counsr, W.Tex. Chamber Commerce, 40-48; financial analyst, S.Tex. Chamber Commerce. State and local government in Texas; school history of Texas. Address: Southwestern University Station, Georgetown, Tex. 78626.

HESTER, DR. JAMES J, b. Anthony, Kans, Sept. 21, 31; m. 55; c. 3. ANTHROPOLOGY. B.A, New Mexico, 53; Wenner Gren Found. fel, 60; Ph.D. (anthrop), Arizona, 61. Res. asst. archaeol, Mus. N.Mex, 57-61; field dir. paleoecol, Ft. Burgwin Res. Center, 61-63; archaeol, Mus. N.Mex, 63-64; adj. prof. ANTHROP, Southern Methodist, 64-65; scientist-administrator, Nat. Insts. Health, 65-67; ASSOC. PROF, COLORADO, 67- Am. Philos. Soc. grant in aid, 63-64; Nat. Sci. Found. pub. grant, 63-64; Wenner Gren Found. grant in aid, 64- Ed, Southwest. Lore, 67-68. Exec. secy. behav. sci. fel. cmt, Nat. Insts. Health, 65-66. U.S.A.F, 54-56, 1st Lt. Soc. Am. Archaeol; fel. Anthrop. Asn; fel. Soc. Appl. Anthrop. Relationship of man and his environment through time; paleontology; palynology. Publ: Archaeological survey of Navajo reservoir district, northwestern New Mexico, Monogr. Sch. Am. Res. & Mus. N.Mex; Early Navajo migrations and acculturation in the southwest, Mus. N.Mex, 62; assembler, The reconstruction of past environments, Ft. Burgwin Res. Center, 64. Address: Dept. of Anthropology, University of Colorado, Boulder, Colo. 80302.

HESTER, PROF. JOSEPH A(ARON), JR, b. Los Angeles, Calif, Dec. 21, 20; m. 50. ANTHROPOLOGY. A.B, California, Los Angeles, 49, Ph.D.(anthrop). 54; fel, Carnegie Inst, 52-54. Instr, Occidental Col, 50-51; ANTHROP, California, Los Angeles, 54-56; from asst. prof. to assoc. prof, SAN JOSE STATE COL, 56-65, PROF, 65- Res. assoc, California, 54-58. Nat. Sci. Found. fel, 55-56; acting asst. prof, Stanford, 56. U.S.A.A.F, 42-45. AAAS; Anthrop. Asn; Soc. Am. Archaeol; Arctic. Inst. N.Am. Middle American archaeology; human ecology; early man. Publ: Early man in the new world; Agriculture, economy and population densities of the Maya; Maya agriculture. Address: Dept. of Sociology & Anthropology, San Jose State College, San Jose, Calif. 95114.

HESTER, DR. RUPORT, b. Mize, Miss, Nov. 13, 22; m. 51; c. 1. PSYCHOLOGY. B.S, Millsaps Col, 47; M.A, Columbia, 49; Nat. Inst. Ment. Health fel, Duke, 52-53, Ph.D.(psychol), 54. Psychologist, Vet. Admin. Psychiat. Eval. Proj, 55-58; asst. chief, bur. soc. res, N.J. Dept. Instns. & Agencies, 58-62, res. analyst div. correction, 62-63; res. psychologist, PERSONNEL RES. BR, U.S. NAVAL SUBMARINE MED. CENTER, 64-66, ASST. HEAD, 66- Consult, Vet. Admin. Psychiat. Eval. Proj, 58-61; Norwich State Hosp, Conn, 64- U.S.N, 43-46; U.S.N.R, 46-54, Lt.(jg). Psychol. Asn; Statist. Asn. Personnel assessment and selection; systems analysis; statistical methods. Address: Submarine Medical Research Lab, U.S. Naval Submarine Medical Center, Groton, Conn. 06342.

HESTERLY, DR. S(IDNEY) OTHO, b. Prescott, Ark, Nov. 29, 31; m. 51; c. 3. CLINICAL PSYCHOLOGY. B.S, Henderson State Teachers Col, 55; M.A, La. State, 57, Ph.D.(clin. psychol), 60. Dir. dept. psychol. E.La. State Hosp, 60-61; ASST. PROF. PSYCHIAT. & CLIN. PSYCHOLOGIST, SCH. MED, ARKANSAS, 61- Res. consult, sch. med, Tulane, 60-61. U.S.A.F, 51-54. Psychol. Asn; Group Psychother. Asn. Deviant response patterns and personality; selection of medical students; automation of test interpretations. Address: Dept. of Psychiatry, University of Arkansas School of Medicine, Little Rock, Ark. 72205.

HESTON, DR. ALAN WILEY, b. Portland, Ore, Oct. 18, 34; m. 57; c. 1. ECONOMICS. B.A, Oregon, 55; M.A, Washington (Seattle), 57; Ford Found. fel. & Ph.D, Yale, 62. Vis. lectr. econ, Bombay, 60-61; asst. prof, Yale, 60-62; ASSOC. PROF. S. ASIAN ECON, PENNSYLVANIA, 62- Sr. fel, Am. Inst. Indian Studies, 65-66. Econ. Asn; Economet. Soc; Asn. Asian Studies; Econ. Hist. Asn. Monetary economics and economic development; economic history of western India, 1850-1947. Address: Dept. of Economics, University of Pennsylvania, Philadelphia, Pa. 19104.

HESTON, DR. JOSEPH C(ARTER), b. Pataskala, Ohio, Jan. 17, 09; m. 34; c. 2. PSYCHOLOGY. A.B, Muskingum Col, 31; M.A, Ohio State, 38, Ph.D.(clin. psychol), 41. Instr, high sch, Ohio, 32-39; asst. psychol, Ohio State, 39-41; prof. & dir. bur. testing & res, DePauw, 41-52; dir. guid. & testing, Fresno State Col, 52-55; PROF. PSYCHOL, ALBION COL, 55-, DIR. BUR. INSTNL. RES. & COUNSELING, 63-, chmn. dept. psychol, 61-63. Vis. lectr, New Mexico; N.Y. Univ; Illinois; Nebraska; Iliff Sch. Theol; summer vis. prof, Ohio, 60-63; Fulbright lectr, Australian Nat. Univ, 65-66; co-dir. on Danforth res. grant, Albion Symp. Counseling, 67. Voc. consult, Soc. Security Bd, 62- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Personnel & Guid. Asn; Asn. Instnl. Res; Nat. Coun. Measurement in Ed. Factorial analyses of clinical performance tests; construction of personality tests; counseling and guidance tools. Publ: Heston personal adjustment inventory; Learning about tests; Counseling for the liberal arts campus, Antioch, 68. Address: Dept. of Psychology, Albion College, Albion, Mich. 49224.

HETHERINGTON, PROF. EILEEN MAVIS, b. Ocean Falls, B.C, Nov. 27, 26; m. 57; c. 3. PSYCHOLOGY. B.A, British Columbia, 47, M.A, 48; fel, California, Berkeley, 53-55, Langley Porter fel, 55-56, Ph.D.(psychol), 58. Clin. psychologist, B.C. Prov. Child Guid. Clin, 48-52; teaching asst. PSYCHOL, California, Berkeley, 52-53; instr, San Jose State Col, 56-57; Rutgers, 57-58, asst. prof, 58-60; WISCONSIN, 60-63, assoc. prof, 63-66, PROF, 66- Res. consult, Wis. Cent. Colony, Madison, 61-65. Psychol. Asn. Personality development especially the role of family structure and parent characteristics on children's behavior; the development of sex role typing, dependency, agression and withdrawal, and modification of these behaviors. Publ: The effects of familial variables on sex role typing, parent-child similarity and imitation in children, In: Minnesota symposium on child development, Univ. Minnesota, 67; Effects of parental dominance, warmth and conflict on imitation in children, J. Personality & Soc. Develop, 67; Discrimination learning by normal and retarded children under delay of reward and interpolated task conditions, Child Develop, 67. Address: Dept. of Psychology, University of Wisconsin, Charter at Johnson St, Madison, Wis. 53706.

HETHERINGTON, DR. JOHN C(HRISTOPHER), Forest Econ, Silviculture, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HETLINGER, PROF. DUANE F(RANCIS), Ed. Psychol, Guid, see 10th ed, Soc. & Behav. Vols, deceased 67.

HETRICK, DR. CARL CHESTER, b. Wayne Co, Ohio, May 20, 37; m. 63; c. 1. POLITICAL SCIENCE. B.A, Ohio State, 59; German Acad. Exchange Serv. fel, Freiburg, 59-60; Woodrow Wilson fel, Chicago, 60-61, univ. fel. & M.A, 61; Falk Found. fel, Washington (Seattle), 62-64, Am. Polit. Sci. Asn. fel, 64-65, Ph.D.(polit. sci), 66. Spec. elections consult, KOMO-TV, Seattle, 64; ASST. PROF. POLIT. SCI, CALIFORNIA, SANTA BARBARA, 65- Polit. Sci. Asn. American national politics; public opinion; political participation; empirical theory; methodology; legislative behavior. Address: Dept. of Political Science, University of California, Santa Barbara, Calif. 93106.

HETZLER, DR. S(TANLEY) A(RTHUR), b. Miamisburg, Ohio, Feb. 20, 19; m. 41; c. 1. SOCIOLOGY. Ph.D, Ohio State, 52. Prof. sociol, community ed. div, Wittenberg Col, 52-57; American Univ. Beirut, 58-59; res. assoc, Ritchie & Assocs, Inc, 59-60; res. sociologist, County Pub. Welfare Dept, Ohio, 61-62; N.Am. Aviation Corp, 62-65; distinguished lectr. SOCIOL, Costa Rica, 65-66; prof, Colorado State, 66-67; PROF. & DIR. INT. CENTER, CENTRAL STATE, 67- Soc. psychologist, Wright-Patterson Air Force Base, 52-58. U.S.A, 42-46, Capt. Sociol. Asn. Application of large scale electronic data; processing systems to scientific problems; theory of socio-economic development. Publ: Distinctiveness of social classes & Variations in role playing patterns, Am. Soc. Rev; Social mobility and radicalism-conservatism, Soc. Forces. Address: 1560 President St, Yellow Springs, Ohio 45387.

HEUSER, DR. HENRY K, b. Berlin, Germany, May 28, 11; U.S. citizen; m. 46; c. 5. ECONOMICS. B.A, McGill, 32, M.A, 33; Acland fel, London, 35-36, Ph.D, 38. Instr, Minnesota, 38-39; Harvard, 39-40; asst. prof. int. econ. rel, Fletcher Sch. Law & Diplomacy, 40-42; Int. Monetary Fund, 47-49; sect. chief, Econ. Coop. Admin. & Mutual Security Agency, 49-52; Fed. Reserve Bd, 52-55; sr. economist, Int. Bank Reconstruct. & Develop, 55; chief prog. div, U.S. Opers. Mission, Rome, 55-58, asst. dir, Korea, 58-60; chief loan admin. staff, Int. Coop. Admin, D.C, 60-61; dep. dir, AGENCY INT. DEVELOP, Mission Tunis, 61-63, counsr. econ. affairs, Tripoli, 64-65, dep. dir, Khartoum, 66-67, CHIEF, INT. AID COORD, 67- U.S. Dept. Army rep, Japan, 48. U.S.A, 43-46, Capt. Econ. Asn. International economics; national accounts; money and banking. Publ: Control of international trade; contrib, Studies in Federalism; Recent financial changes in Western Germany, Fed. Reserve Bull. Address: Agency for International Development, U.S. Dept. of State, Room 3841, Washington, D.C. 20523.

HEUSON, PROF. WILLIAM GEORGES, b. St. Louis, Mo, Sept. 6, 21; m. 56; c. 1. FINANCE. B.S, St. Louis, 43, A.M, 47, Ph.D, 56. Instr. FINANCE, St. Louis, 46-48; asst. prof, MIAMI (FLA), 48-55, assoc. prof, 55-58, PROF, 58- Econ. Asn; Finance Asn. Economics; Florida's city and county revenue problems; business finance and mortgage credit; money and banking. Publ: A tax and revenue history of Florida; Public finance. Address: Dept. of Finance, Box 8094, University of Miami, Coral Gables, Fla. 33124.

HEUSTON, MILTON CRAIG, b. Los Angeles, Calif, Oct. 24, 24. BUSINESS ADMINISTRATION, ECONOMICS. B.A, Pomona Col, 47; M.B.A, Southern California, 50; California, Berkeley, 52, Los Angeles, 57-60. Soc. scientist, Rand Corp, Santa Monica, 50-58, rep. to hqs, Strategic Air Command, U.S. Air Force, 57-58, cost. engr, 58-62, mem. & sr. rep, winter study group, 60; exec. adv. opers. res, Douglas Aircraft Co, Inc, 62-63; mem. tech. staff, Thompson-Ramo-Wooldridge, Inc, 63-66; ASST. DIR. ECON. ANAL, AEROSPACE CORP, 66- U.S.A.A.F, 43. AAAS; Opers. Res. Soc; Econ. Asn; Statist. Asn. Application of operations research techniques to military management and systems analysis, particularly in long range planning of military and civilian personnel requirements and utilization; development of cost estimating models and techniques for the cost-effectiveness analysis of space systems. Publ: Concepts for estimating Air Force manpower requirements for planning purposes; co-auth, Observations on the theoretical basis of cost-effectiveness, Opers. Res. Soc, 66. Address: 27966 Buchgate Dr, Palos Verdes Peninsula, Calif. 90274.

HEWER, PROF. VIVIAN H(UMPHREY), b. Mora, Minn, May 31, 08; m. 48. PYSCHOLOGY. B.S, Minnesota, 29, M.S, 41, Ph.D.(psychol), 54. Teacher, pub. schs, Minn, 29-30, teacher & counsr, 30-41; res. counsr, employ. stabilization res. inst, Minnesota, 41-42; occupational test exam. & counsr, U.S. Employ. Serv, 42-45; psychometrist & assoc. voc. adv, ed. rehab, Vet. Admin, 45-47; instr. student counseling bur, & sr. student personnel worker, MINNESOTA, 47-54, asst. prof, PSYCHOL, 54-59, assoc. prof, 59-63, PROF, 63- Fel, Found. Econ. Ed. Inc. & Bank of Am, 56; Am. Psychol. Asn, 62. Consult, Vet. Admin, 57-; exam-consult, N.Cent. Asn. Univs. & Cols, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol, 50. Psychol. Asn; Personnel & Guid. Asn. Choice of a vocation; development of the young adult; personality theory in relation to therapy and counseling. Publ: Group counseling, individual counseling and a college class in vocations, Personnel & Guid. J; Are tests fair to college students from homes with low socio-economic status?, Personnel & Guid. J, 65; Evaluation of a criterion: realism of vocational choice, J. Counseling Psychol, 66. Address: 3448 46th Ave. S, Minneapolis, Minn. 55406.

HEWES, DR. DAVID D(ANFORTH), b. Hamden, Conn, May 7, 08; m. 49; c. 4. PSYCHOLOGY. A.B, Dartmouth Col, 31; M.A, California, 38, Ph.D.(psychol). & M.S.W, 51. PRACTICING CLIN. PSYCHOLOGIST, 51- Psychologist & soc. worker, Weill Clin, 51-55. U.S.A, 43-45. Psychol. Asn; Group Psychother. Asn. Psychotherapy; psychodiagnostic testing. Address: 1777 Burton Way, Bakersfield, Calif. 93306.

HEWES, DR. GORDON W(INANT), b. San Francisco, Calif, 17; m. 39. ANTHROPOLOGY. A.B, California, 38, Ph.D.(anthrop), 47. Asst. geogr, Off. Strategic Serv, D.C, 42-45, res. analyst, 44-45; instr. Far East. hist. & geog, Pennsylvania, 46; asst. prof. ANTHROP, North Dakota, 46-49; Southern California, 49-51; from asst. prof. to assoc. prof, COLORADO, 52-63, PROF, 63- Geogr, U.S. Bd. Geog. Names, 43-44; lectr, Kyoto, 55; Fulbright lectr. Keio & Tokyo, 55-56, Lima, 60. U.S.A, 45. AAAS; fel. Anthrop. Asn; Am. Ethnol. Soc; Asn. Am. Geog; Soc. Am. Archaeol; Asn. Asian Studies; Japanese Ethnol. Soc. Culture history; psychoethnology; cultural geography; prehistoric archaeology; North Africa. Address: Dept. of Anthropology, University of Colorado, Boulder, Colo. 80302.

HEWES, DR. JAMES E(LLICOTT), Am. Diplomatic Hist, Int. Rels, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HEWES, DR. LAURENCE I(LSLEY), JR, b. Kingston, R.I, Apr. 17, 02; m. 32; c. 1. ECONOMICS. B.Sc, Dartmouth Col, 24; Ph.D.(econ), George Washington, 45; M.P.A, Harvard, 56. Spec. asst. to adminstr, Farm Security Admin, D.C, 35-39, regional dir, Calif, 39-44; West Coast dir, Am. Coun. Race Rels, 44-47; land reform specialist, Allied Occup. Japan, 47-49; agr. economist, Cmnrs. Denver Off. Bur. Reclamation, 49-59; chief forecasts & econ. studies group, Outdoor Recreation Resources Rev. Cmn, 59-62; asst. to admin. natural resources, Off. Rural Areas Develop, U.S. Dept. Agr, 62-63; rural develop. adv, U.S. Aid Mission to India, U.S. Dept. of State, 63-65; ASST. TO ADMIN, RURAL COMMUNITY DEVELOP. SERV, U.S. DEPT. AGR, 65- Conserv. fel, Harvard, 55-56. Sr. consult, UN Develop. Prog, Ethiopia & Panama, 67, India & Ceylon, 68. Mem. panel, Off. Sci. & Tech. Study; spec. rep. secy. agr, U.S. Mission to South Viet-Nam, 66. Distinguished serv. award, U.S. Dept. Agr, 68. AAAS; Econ. Asn; Soil Conserv. Soc. Natural resources; agricultural economics; government. Publ: Japan—land and men, Iowa State Col, 55; ed. & co-auth, Study report 21, The future of outdoor recreation in metropolitan regions of the United States & ed, Study report 22, Trends in American living and outdoor recreation, Outdoor Recreation Resources Rev. Cmn, 62. Address: Apt. 804, 2601 Woodley Place N.W, Washington, D.C. 20008.

HEWES, PROF. LESLIE, b. Guthrie, Okla, Feb. 26, 06; m. 33; c. 2. GEOGRAPHY. B.A, Oklahoma, 28; fel, California, 29-32, Ph.D.(geog), 40. Asst. GEOG, Oklahoma, 26-29, instr, 32-39, asst. prof, 39-43, assoc. prof, 43-45; teacher, West. Ky. State Teachers Col, 29; PROF, NEBRASKA, 45-, chmn. dept, 46-68. Field asst, Univ. California, Mex, 31; guest prof. & Fulbright lectr, Vienna, 58-59; vis. geog. scientist, Nat. Res. Coun. & Asn. Am. Geog, 67. Consult, Latin Am. sect, spec. info. div, Off. Strategic Serv, 42; Nat. Defense Ed. Act Insts. in Geog, 65- Mem. adv. cmt. geog, Fulbright Prog, 55-58; Off. Naval Res, 57-58. Asn. Am. Geog.(award, 65); Nat. Coun. Geog. Ed; Am. Geog. Soc; Int. Geog. Union. Regional, historical, economic and cultural geography of Great Plains, central United States prairies, Ozarks, Indian country and Mexico. Publ: Entwassering prarien vereingten staten, Die Erde; Ozark vineyard center, Econ. Geog; Wheat failure, Ann. Asn. Am. Geog. & Econ. Geog. Address: Dept. of Geography, University of Nebraska, Lincoln, Nebr. 68508.

HEWETSON, PROF. H(ENRY) W(ELDON), b. Toronto, Ont, Mar. 10, 04; nat; m. 29; c. 1. ECONOMICS. B.A, Toronto, 24; M.A, British Columbia, 25; Ph.D, Chicago, 51. Instr, Mich. State, 27-28; asst. prof, Alberta, 29-48; assoc. prof. econ. & bus. admin, MARY WASHINGTON COL, VIRGINIA, 48-62, PROF. ECON. & CHMN. DEPT. ECON. & POLIT. SCI, 62- Am. Econ. Asn; Regional Sci. Asn; Can. Econ. Asn. Transportation; industrial location and population. Publ: Co-auth, New north-west. Address: 1428 Royston St, Fredericksburg, Va. 22401.

HEWGILL, DR. MURRAY, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

HEWITT, DR. BENJAMIN A(TTMORE), b. Westerly, R.I, Dec. 20, 21. PSYCHOLOGY. B.A, Yale, 43, M.A, 50, Ph.D.(counseling psychol), 52. Faculty mem, Mitchell Col, 46-48, dean, 48-51; asst. dir. & sr. counsr, Voc. Counseling Serv, Inc, 52-54; exec. dir, PSYCHOL. SERV. INC, CONN, 55-62, PRES, 62-; RES. ASSOC. PSYCHOL, YALE, 61-; partner, Hewitt-Redmount & Assocs, 61-62. Asst. prof, New Haven State Teachers Col, 52-53. Consult, Wesleyan, 53-54. U.S.A, 43-46. Psychol. Asn. Permanence and vocational significance of values of public health nurses, Pub. Health Nursing. Address: 340 St. Ronan St, New Haven, Conn. 06511.

HEWITT, DR. FRED(ERICK), b. Wigan, Eng, June 20, 41; m. 65. GEOGRAPHY, DEMOGRAPHY. B.A, Bristol, 62, cert. ed. & Ph.D.(geog), 66. Demonstr. GEOG, Bristol, 62-65; ASST. PROF, BRANDON, 66- Dir, BranMan Assocs, 66-; demog. consult, Man. Govt. Local Boundaries Cmn, 66- Asn. Am. Geog; Can. Asn. Geog; Inst. Brit. Geog. Economic development, particularly the effects of technological change on the distribution of population. Address: Dept. of Geography, Bradnon University, Brandon, Man, Can.

HEWITT, JEAN T(ENNENT), b. Montclair, N.J, July 14, 16. PSYCHOLOGY. A.B, Pennsylvania, 39; A.M, Bryn Mawr Col, 44; M.A, Wayne State, 60. Case worker, Travelers Aid Soc, Phila, Pa, 39-40; med. soc. serv. dept, Hahnemann Hosp, 41-42; student in training, Phila. Family Serv, 42-47, caseworker, 44-47, supvr, 45-47, dist. dir, 47-48; asst. prof. soc. work, sch. soc. work, Wayne, 48-50, assoc. prof, 50-53, res. asst, dept. psychiat, col. med, 53; dept. head out-patient children's clin, McGregor Center, Detroit, Mich, 53-57; CHILD PSYCHOTHERAPIST, 58- Consult, Grosse Pointe Bd. Ed, 59-; clin. child study, Wayne County Juvenile Court, 59. Asn. Orthopsychiat. Psychogenic problems of children; school phobia. Address: 17854 Maumee Ave, Grosse Pointe, Mich. 48230.

HEWITT, DR. JOHN P(AUL), b. Morris Twp, Pa, Nov. 8, 41; m. 62; c. 2. SOCIOLOGY. B.A, State Univ. N.Y. Buffalo, 63, Nat. Sci. Found. fel, 64-66, M.A, 65; Harold W. Dodds fel, Princeton, 65-66, Ph.D.(sociol), 66. ASST. PROF. SOCIOL, Oberlin Col, 66-68; YORK (ONT), 68- AAAS; Sociol. Asn. Social stratification, especially the social consequences of inequality; general sociological theory and the logic theory construction; sociology of higher education. Publ: Social stratification and deviant behavior, Random, (in press). Address: Dept. of Sociology, York University, Toronto, Ont, Can.

HEWITT, PROF. LESTER E(UGENE), b. Hillsdale, Mich, Feb. 19, 16; m. 40; c. 3. SOCIOLOGY. A.B, Hillsdale Col, 37; fel, Mich. Child Guid. Inst, 38-39, 40-42; M.A, Michigan, 39, Ph.D.(sociol), 45. Instr. SOCIOL, BALL STATE, 46-48, asst. prof, 48-52, assoc. prof, 52-58, PROF, 58- U.S.A, 43-45, Capt. Sociol. Asn. Juvenile delinquency; family; social aspects of illness. Publ: Fundamental patterns of maladjustment. Address: 3850 Beechwood Ave, Muncie, Ind. 47304.

HEWSON, LOUISE R, b. Passaic, N.J, Dec. 23, 97. CLINICAL PSYCHOLOGY. A.B, Vassar Col, 21; M.A, Columbia, 32. Parole officer & dir. student govt, Sleighton Farm Sch. Delinquent Girls, Pa, 21-31; clin. psychologist, Juvenile Court, Detroit, Mich, 32-37; clin. psychologist, neurol. inst, Presby. Hosp, 38-63, chief clin. psychol, 47-63. Lectr, Columbia, 47-50, assoc, 58-63. Clin. psychologist, St. Luke's Hosp, New York, 37-57; res. psychologist, cmt. med. res, Off. Emergency Mgt, 42-44. Psychol. Asn. Differential diagnosis between cerebral pathologies and neuroses by means of psychological tests. Publ: Wechsler-Bellevue scale and the substitution-test as aids in neuropsychiatric diagnosis, J. Nervous & Ment. Disease; co-auth, Psychologic tests for the clinical evaluation of late diffuse organic, neurotic and normal reactions after closed head injury, Asn. Res. Nervous & Ment. Diseases Res. Pub. Address: 12 E. 97th St, New York, N.Y. 10029.

HEXNER, PROF. ERVIN P(AUL), Int. Finance, see 10th ed, Soc. & Behav. Vols, deceased 68.

HEYDE, DR. MARTHA BENNETT, b. New Bern, N.C, Jan. 31, 20; m. 46. COUNSELING, PSYCHOLOGY. A.B, Columbia, 41, M.A, 49, Ph.D, 59. Asst. PSYCHOL, TEACHERS COL, COLUMBIA, 57-60, RES. ASSOC, 60-, instr, psychol. founds. & servs, 53-60. Psychol. Asn. Vocational development research and theory. Publ: Collab, Vocational maturity of ninth grade boys. Address: 140 Cabrini Blvd, New York, N.Y. 10033.

HEYDEBRAND, DR. WOLF V, b. Preussenfeld, Germany, June 15, 30; m. 54; c. 1. SOCIOLOGY. Marburg, 50; Zurich, 51; Paris, 52; Frankfurt, 52-54; M.A, Chicago, 61, Ph.D.(sociol), 65. Lectr. SOCIOL, Roosevelt, 61-63; instr, col, Univ. Chicago, 63-64, asst. prof. & co-prin. investr. & co-dir, comp. org. res. prog, Nat. Sci. Found. grant, 64-67; ASSOC. PROF. SOCIOL, WASHINGTON (ST. LOUIS), 67- Consult, Nat. Fedn. Settlements, 64. Sociol. Asn. Comparative and quantitative analysis of organizations, especially structural properties and external relations of modern bureaucracies such as hospitals, welfare agencies, state and local finance and employment agencies; community organizational networks. Publ: Hospital bureaucracy: a comparative analysis of complexity and coordination in organizations, Univ. Chicago, 68; co-auth, The structure of small bureaucracies, Am. Sociol. Rev, 66; auth, The study of organizations, Soc. Sci. Info, 67. Address: 6330 Washington Ave, University City, Mo. 63130.

HEYDINGER, E(DWARD) R(UFF), b. Toledo, Ohio, Jan. 8, 19; m. 46; c. 3. ECONOMICS, STATISTICS. A.B, Miami (Ohio), 40; M.B.A, Pennsylvania, 52. Sr. petrol. economist, Ohio Oil Co, 53-62, MGR, ECON. DIV, MARATHON OIL CO, 62- U.S.A, 42-45. Econ. Asn; Statist. Asn. Economics of petroleum industry; general business conditions analysis; corporate planning; land economics. Address: Marathon Oil Co, 539 Main St, Findlay, Ohio 45840.

HEYE, PROF. CHARLES F(RANK), b. Galveston, Tex, Jan. 25, 22; m. 48; c. 2. ECONOMICS. B.B.A, Texas, 43; M.B.A, Maryland, 47; Pennsylvania, 49-54. Mem. staff, traffic dept, Braniff Airways, Tex, 47-48; instr. transportation & pub. utilities, Pennsylvania, 51-54; opers. analyst, opers. res. group, Convair Div, Gen. Dynamics Corp, Tex, 54-55; practising transportation consult, 55-56; instr. bus. orgn, col. bus. & pub. admin, Maryland, 56-63; ASST. PROF. MGT. & DIR. SMALL BUS. MGT. PROG, COL. BUS. ADMIN, HAWAII, 63- Instr, Houston, 47-48. Consult, State of Hawaii, Hawaiian Inter-Island Ferry Syst, Ltd; Chamber of Commerce Hawaii; Small Bus. Admin; numerous bus. in Pa, Md, Tex. & Hawaii. Prog. chmn. & originator, Pac. Inst. Transportation, 67 & 68; mem. Small Bus. Adv. Coun. Hawaii, 68-69. V.pres, treas. & dir, Specialized Compact Automotive Transports Hawaii, Inc. Distinguished serv. award, Nat. Defense Transportation Asn, 66-67. U.S.N, 43-46, Lt. Soc. Traffic & Transportation; Econ. Asn; Nat. Coun. Small Bus. Mgt. Develop; cor. mem, Brit. Inst. Transport. Transportation; public utilities; marketing; industrial management; foreign trade. Publ: Co-auth, Projected demand for the Hawaiian Inter-Island Ferry System Services, Hawaiian Inter-Island Ferry Syst, Ltd, 67; ed, The containerization explosion, In: Proceedings of the First Annual Pacific Institute of Transportation, Univ. Hawaii, 67 & International intermodality, Proceedings of the Second Annual Pacific Institute of Transportation, Univ. Hawaii, (in prep). Address: 4381 Aukai Ave, Honolulu, Hawaii 96815.

HEYER, DR. ALBERT W(ILLIAM), JR, b. Lamar, Colo, July 13, 21; m. 42; c. 3. PSYCHOLOGY. B.A, Colorado, 42; M.A, Illinois, 47, fel, 48-49, Ph.D, 50. Asst. psychol, Illinois, 46-47, asst. prof, 50; instr, Colorado, 47-48; consult, Rohrer, Hibler & Replogle, 50-56; PARTNER, SWARTZLANDER & HEYER, 56- U.S.A, 42-46, Capt. AAAS; Psychol. Asn. Application of psychological knowledge to industrial management development; motivation and learning of the normal human being; team dynamics in industrial management. Publ: Studies in motivation and retention, Comp. Psychol. Monogr; New interpretation of figural after-effects, Psychol. Rev; Scatter analysis techniques applied to anxiety neurotics from a restricted culture-educational environment, J. Gen. Psychol. Address: 401 PBMI Bldg, 333 W. Colfax Ave, Denver, Colo. 80204.

HEYMAN, DR. VICTOR K(ENNETH), b. Washington, D.C, Feb. 16, 35; m. 56; c. 4. POLITICAL SCIENCE. A.B, Washington (St. Louis), 54, Soc. Sci. Res. Coun. fel. & Ph.D.(polit. sci), 57; Woodrow Wilson Found. fel. & M.A, Illinois, 55. Asst. prof. polit. sci, Marshall, 59-61; weapons systs. analyst, Off. Secy. Defense, 61-65; asst. spec. projs, OFF. ASST. SECY. DEFENSE, 65-66, dir, southeast asia progs. div, 66-68, DEP. ASST. SECY. DEFENSE, SOUTHEAST ASIA PROGS, 68- Mem. nat. seminar teachers polit, Citizenship Clearing House, 61; summers, fel, math. inst. soc. scientist, Soc. Sci. Res. Coun, 55, res. asst, govt. studies div, Brookings Inst, 59-60. William E. Mosher award, Am. Soc. Pub. Admin, 62. U.S.A.F, 57-59, 1st Lt. Polit. Sci. Asn. American national politics; national security affairs. Publ: Government by contract; boon or boner? Pub. Admin. Rev. Address: 1706 Lorre Dr, Rockville, Md. 20852.

HEYMANN, HANS, JR, b. Berlin, Germany, Feb. 2, 20; nat; m. 43; c. 4. ECONOMICS. A.B, Rutgers, 46; Carnegie fel, Columbia, 47-48, M.I.A, 48, cert, Russian Inst, 48. Consult. econ, RAND CORP, 48-50, mem. econ. res. staff, 50-55, REP. ECON. DIV, 55- Prof. lectr, George Washington, 55-62; guest lectr, For. Serv. Inst, Nat. War Col, 59-63. Consult, Proj. Horizon Task Force, 61; consult. to dir, Bur. Budget, 61-62; White House consult, Vietnam affairs, Off. Spec. Asst. to President, 66-68. Mem. U.S. Housing Del, U.S.S.R, 56; U.S. Air Transport Del, 60; U.S. del, SEATO Conf, Lahore, Pakistan, 60; transport adv. group, U.S. Secy. Commerce, 61; Vietnam task force, Secy. Defense, 67-68. U.S.A, 43-46. Econ. Asn. Economy of the Union of Soviet Socialist Republics; United States air transport policy; United States foreign aid and security policy in Southeast Asia. Publ: Co-auth, Soviet national income and product, 1940-1948; Soviet foreign aid as a problem for U.S. policy, World Politics. Address: 6407 W. Halbert Rd, Bethesda, Md. 20034.

HEYNS, DR. ROGER W(ILLIAM), b. Grand Rapids, Mich, Jan. 27, 18; m. 41; c. 3. PSYCHOLOGY. A.B, Calvin Col, 40; M.Clin. Psychol, Michigan, 42, Ph.D.(psychol), 49, hon. LL.D, Michigan, 67. Instr. psychol, Michigan, 47-49, asst. prof, 49-53, assoc. prof, 53-57, prof, 57-65, dean col. lit, sci. & arts, 58-63; v.pres. acad. affairs, 62-65; PROF. PSYCHOL. & CHANCELLOR, CALIFORNIA, BERKELEY, 65- Intern, Carnegie Corp, 53-54. Consult, 51-56. Mem. adv. cmt. grad. ed, bur. higher ed, U.S. Off. Ed, 65-; bd. trustees, Ed. Testing Serv, 66-; Nat. Sci. Bd, 67-; chmn. ad hoc sci. adv. cmt, NASA, 67- Fel. Psychol. Asn. Decision-making in small groups; social conformity; non-conformity; measurement of social motives. Publ: Psychology of personal adjustment; An anatomy for conformity, Prentice-Hall, 62; co-auth, Systematic observational techniques, In: Handbook Soc. Psychol. Address: University of California, Berkeley, Calif. 94720.

HEYSINGER, PROF. JACK DEAN, b. Clinton, Iowa, Sept. 3, 22; m. 49; c. 2. BUSINESS LAW. B.A, Iowa, 47, J.D, 49; L.L.M, Michigan, 57. Instr. bus. law, Kansas, 49-52, asst. prof, 52-57, asst. dean sch. bus, 53-57, acting dean, 53-55; prof. bus. law & dean col. bus. admin, Wichita, 57-64; HARZFELD PROF. ADMIN. & DEAN SCH. ADMIN, MISSOURI, KANSAS CITY, 64- U.S.A, 42-46, Judge Advocate Gen.C, Res, 46-, Lt. Col. Econ. Asn; Bus. Law Asn. Western legal thought; the common law system; freedom of contract; commercial transactions; law and society. Address: School of Administration, University of Missouri at Kansas City, 5100 Rockhill Rd, Kansas City, Mo. 64110.

HIBBARD, PROF. EMERSON W(ILBUR), Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols.

HIBBARD, PROF. RICHARD E(DWARDS), b. New Glasgow, N.S, Jan. 12, 10; U.S. citizen; m. 39; c. 2. POLITICAL SCIENCE. B.Ed, Wis. State Teachers Col, 32; A.M, Northwestern, 33, Ph.D, 43; A.M, Fletcher Sch. Law & Diplomacy, Tufts, 34. Instr, Anatolia Col, Greece, 34-37; polit. sci, Muhlenberg Col, 38-43; from div. asst. to asst. chief div, U.S. Dept. State, D.C, 43-47; PROF. POLIT. SCI, WIS. STATE, EAU CLAIRE, 47-, V.PRES. ACAD. AFFAIRS, 64-, chmn. dept. polit. sci, 47-60, dean instr, 60-64. Consult, Off. Strategic Serv. International politics of the Eastern Mediterranean. Address: 1610 Drummond St, Eau Claire, Wis. 54701.

HIBBEN, PROF. FRANK CUMMINGS, b. Lakewood, Ohio, Dec. 5, 10; m. 36. ANTHROPOLOGY. A.B, Princeton, 33; M.S, New Mexico, 36; Ph.D.(anthrop), Harvard, 40. Asst. archaeologist, univ. mus, Ohio State, 28-29; asst. ar-

chaeol. & zool, Cleveland Mus. Natural Hist, 30-33; field naturalist, Am. Nature Asn, D.C, 34; asst. ANTHROP, NEW MEXICO, 34-36, instr, 36-39, asst. prof, 39-46, assoc. prof, 46-52, PROF, 52- Lectr, Archaeol. Inst, 61- Consult, Div. African Affairs, U.S. Dept. State, 56- U.S.N, 42-46, Res, 46-, Lt. Comdr. AAAS; Anthrop. Asn; Ethnol. Soc; Soc. Am. Archaeol. Early man in North America; pre-history of North America; European backgrounds. Publ: Lost Americans: Prehistoric man in Europe; Evidences of early occupation in Sandia Cave, New Mexico and other sites in the Sandia-Mazano region, Smithsonian Miscellaneous Collections. Address: Dept. of Anthropology, University of New Mexico, Albuquerque, N.Mex. 87106.

HIBDON, DR. JAMES E(DWARD), b. McAlester, Okla, Sept. 1, 24; m. 44; c. 2. ECONOMICS. B.A, Oklahoma, 48, M.A, 49; Ph.D, North Carolina, 57. Instr. ECON, North Carolina, 49-50, 51-54; asst. prof, Ga. State Col, 54-57, ASSOC. PROF, 57-59; Agr. & Mech. Col, Tex, 59-61; OKLAHOMA, 61- U.S.A, 43-46, 50-51. Econ. Asn. Effect of expressways on land value and land use. Publ: Flood control benefits and the Tennessee Valley Authority, South. Econ. J; Can the United States achieve continuous high level employment without a rising price level?, Atlanta Econ. Rev. Address: Faculty Exchange, Box 166, University of Oklahoma, Norman, Okla. 73069.

HIBLER, DR. FRANCIS W(ARREN), b. Johnstown, Pa, Apr. 11, 06; m. 31; c. 2. PSYCHOLOGY. A.B, Bethany Col,(W.Va), 26, Sc.D, 61; M.A, Ohio State, 30, Ph.D.(psychol), 35. Teacher, pub. schs, Ohio, 26-29; asst. psychol, Ohio State, 31-32, instr, 32-35; asst. prof, Ill. State Norm. Univ, 35-36, assoc. prof, 37-43, prof. & head dept, 43-44; supvr. consult. psychol, Stevenson, Jordon & Harrison, 44-45; PARTNER, PSYCHOL. CONSULT. TO MGT, ROHRER HIBLER & REPLOGLE, 45- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Personality problems of mature executives in industry. Address: Rohrer, Hibler & Replogle, 69 W. Washington St, Chicago, Ill. 60602.

HICKERSON, DR. GEORGE X, JR, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

HICKERSON, DR. HAROLD, b. New York, N.Y, Mar. 8, 23; m. 46; c. 3. ANTHROPOLOGY. B.A, Columbia, 47; M.A, Indiana, 50, Wenner-Gren fel, 51-52, Ph.D.(anthrop), 54. Res. assoc. ANTHROP, Indiana, 54-63; asst. prof, Arizona State, 63-64; ASSOC. PROF, STATE UNIV. N.Y. BUFFALO, 64- Res. Inst. Study Man res. grant cultural surv. Brit. Honduras, 64. U.S.A, 42-45. Fel. Anthrop. Asn; Ethnohist. Soc.(ed, Ethnohistory, 66-). Ethnohistory of the Indians of the Great Lakes; cultural anthropology, evolution and ecology; Caribbean. Publ: The Southwestern Chippewa: an ethnohistorical study, memoir 92, Am. Anthrop. Asn; Some implications of the theory of the particularity or atomism, of northern Algonkians, Current Anthrop, 6/67; Land tenure of the Rainy Lake Chippewa at the beginning of the 19th century, Smithsonian contributions to anthrop, Vol. 12, No. 4. Address: Dept. of Anthropology, State University of New York at Buffalo, 4242 Ridge Lea Rd, Amherst, N.Y. 14226.

HICKEY, DR. ALBERT E(DMUND), JR, b. Boston, Mass, Sept. 17, 26. EXPERIMENTAL PSYCHOLOGY. B.S, Tufts Col, 47; Columbia, 49; M.A, Boston, 51, Ph.D.(psychol), 54. Res. assoc. psychol. optics, phys. res. labs, Boston, 49-53; psychologist human eng, Off. Naval Res, 53-55; head human factors sect, elec. boat div, Gen. Dynamics Corp, 55-59; mgr. human factors dept, Itek Corp, 59-61; PRES, ENTELEK, INC, 61- Lectr, American Univ, 55; Northeastern, 58-62, dir, automated teaching proj, 60-62. Mem, Armed Forces-Nat. Res. Coun. Vision Cmt, 60-63. U.S.N.R, 53-55, Lt. AAAS; Psychol. Asn; Oper. Res. Soc; Optical Soc. Applied experimental psychology; educational and training systems; programmed and computer-assisted instruction. Publ: Co-auth, Probability and statistics: a programmed workbook, Addison-Wesley, 63; auth, CAI: a survey of the literature, Entelek, 68. Address: Indian Hill, West Newbury, Mass. 01985.

HICKEY, DR. G(ERALD) C(ANNON), b. Chicago, Ill, Dec. 17, 25. ANTHROPOLOGY. A.B, De Paul, 50; M.A, Chicago, 53, Ph.D, 58; Paris, 53-54. Res. assoc. anthrop, Mich. State, 56-60; asst. prof, Monteith Col, Wayne State, 60-61; res. assoc. & lectr, Yale, 61-63; STAFF ANTHROPOLOGIST, RAND CORP, 64- Consult, Mekong River Proj, Ford Found, 61; Rand Corp, 61-62. U.S.A, 44-46, Sgt. Fel. Anthrop. Asn; Soc. Indo-Chinese Studies. Indochina, especially Laos and Viet Nam; the Black Tai of North Laos; highland groups of South Viet Nam; Mekong River Delta. Publ: Village in Vietnam, Yale Univ, 64; Ethnic groups of mainland southeast Asia, Human Rels. Area Press, Yale, 64; Some aspects of hill tribe life in Vietnam, In: Southeast Asian tribes, minorities and nations, Princeton Univ, 67. Address: 7217 S. Phillips Ave, Chicago, Ill. 60649.

HICKEY, DR. JAMES RICHARD, b. Meade, Kans, Oct. 14, 33; m. 58; c. 1. MASS COMMUNICATION, JOURNALISM. B.Journalism, Texas, 61; M.S, Wisconsin, 62, Ph.D.(mass commun), 66. Agr. ed, Gazette, Billings, Mont, 60-61; news mgr, Credit Union Nat. Asn, 62-64; instr. JOURNALISM, Wisconsin, 64-66; ASST. PROF, COLORADO, 66- V.pres, MH Mkt. Co, Boulder, U.S.A, 51-54; U.S.N, 56-59. Asn. Ed. Journalism. Human communications systems, especially small group systems. Publ: The effects of information control on perceptions of centrality, Journalism Quart, spring 68. Address: University of Colorado School of Journalism, Boulder, Colo. 80302.

HICKEY, DR. THOMAS (STERLING), b. Jonesboro, Ark, Dec. 18, 29; m. 53; c. 1. PSYCHOLOGY, INDUSTRIAL PSYCHOLOGY. B.B.A, Southern Methodist, 51; fel, Vanderbilt, 59-60, Ph.D.(psychol), 62. Trainee psychologist, Vet. Hosp, Gulfport, Miss, 61-62; psychologist, Rohrer, Hibler & Replogle, 62-64; asst. prof. psychol, Arkansas, 64-67, mgt, 67-68; PROF. PSYCHOL. & BUS, CENTENARY COL, 68- Consult, Good Samaritan Training Center, Miss, 61-62; Ft. Smith Child Family Serv, Ark, 64-67; Benton County Sch. for Retarded, 65-67. U.S.N.R, 51-56, Lt. Psychol. Asn. Personnel selection and training; group dynamics. Address: Dept. of Psychology, Centenary College, Shreveport, La. 71104.

HICKMAN, PROF. BERT G(EORGE), b. Los Angeles, Calif, Oct. 6, 24; m. 47; c. 3. ECONOMICS. B.S, California, 47, Ph.D, 51. Instr. econ, Stanford, 49-51; res. assoc, Nat. Bur. Econ. Res, 51-52; asst. prof, Northwestern, 52-54; mem. sr. staff, Coun. Econ. Adv, 54-56; Brookings Inst, 56-66; PROF. ECON, STANFORD, 66- Vis. prof, California, Berkeley, 60; Nat. Sci. Found. sr. fel, economet. inst, Netherlands Sch. Econ, 64-65. Mem. cmt. econ. stability, Soc. Sci. Res. Coun, 59- U.S.N, 43-46. Econ. Asn; Economet. Soc. Business cycles and economic growth; aggregative theory of income and employment. Publ: Growth and stability of the postwar economy, 60, Investment demand and United States economic growth, 65 & ed, Quantitative planning of economic policy, 65, Brookings Inst. Address: Dept. of Economics, Stanford University, Stanford, Calif. 94305.

HICKMAN, PROF. C(HARLES) ADDISON, b. Sioux City, Iowa, June 11, 16; m. 40; c. 3. ECONOMICS. A.B, Iowa, 37, A.M, 38, Ph.D.(econ), 42. Instr, Stetson, 38-40; from instr. to prof, Iowa, 40-50; prof. econ. & res. prof, bur. econ. & bus. res, Illinois, 50-53; prof. econ, N.C. State Col, 53-60, head dept, 53-56, dean sch. gen. studies, 56-60; VANDEVEER PROF. ECON, SOUTHERN ILLINOIS, 60- Ed, Dryden Press. Chmn, cmt. res. bus. enterprises, Soc. Sci. Res. Coun; mem. cmn. acad. affairs, Am. Coun. Ed; cmn. scholars, Ill. Bd. Higher Ed. Econ. Asn; Asn. Higher Ed.(pres). Welfare economics; economic systems; history of thought. Publ: Our farm program and foreign trade, Coun. For. Rels, 49; Individuals, groups, and economic behavior, Dryden, 56; The entrepreneurial function: the south as a case study, Essays in South. Econ. Develop, Univ. North Carolina, 64. Address: Dept. of Economics, Southern Illinois University, Carbondale, Ill. 62901.

HICKMAN, DR. EDGAR P, b. Jamesville, N.C, Sept. 1, 31; m. 53; c. 2. STATISTICS. A.B, North Carolina, 54, Ph.D.(econ), 61. Asst. prof. statist, Iowa, 58-63; ASSOC. PROF. ECON. & STATIST, SOUTH CAROLINA, 63- Statist. Asn. Operations research; econometrics. Address: Dept. of Economics, University of South Carolina, Columbia, S.C. 29208.

HICKMAN, PROF. JAMES C(HARLES), b. Indianola, Iowa, Aug. 27, 27; m. 50; c. 3. ACTUARIAL SCIENCE, STATISTICS. B.A, Simpson Col, 50; M.S, Iowa, 52, Ph.D.(math), 61. Actuarial asst, Bankers Life Co, 52-57; instr. actuarial sci, IOWA, 57-61, asst. prof. math, 61-63, assoc. prof. STATIST, 63-67, PROF, 67- Summers, dir. actuarial prog, John Hancock Mutual Life Ins. Co, 60, Northwest. Mutual Life Ins. Co, 61, dir. actuarial sci, 62, actuarial prog, Travelers Ins. Co, 64. Asst. ed, J. Risk & Ins, 67- U.S.A.A.F, 45-47. Fel. Soc. Actuaries; Inst. Math. Statist; Math. Asn; Casualty Actuarial Soc; Statist. Asn. Application of mathematical statistics to problems that arise in the field of actuarial science. Publ: Preliminary regional forecasts for the outcome of an estimator problem, J. Am. Statist. Asn, 63; A statistical approach to premiums and reserves in multiple decrement theory, Trans. Soc. Actuaries, 64; co-auth, Some mathematical views of risk, J. Risk & Ins, 66. Address: Dept. of Statistics, University of Iowa, Iowa City, Iowa 52240.

HICKMAN, DR. JOHN M(ARSHALL), b. Cedar Rapids, Iowa, Sept. 7, 30; m. 60; c. 2. ANTHROPOLOGY. B.A, Cornell Col, 52; M.A, Iowa, 59; Soc. Sci. Res. Coun. fel, Cornell, 61-63, Ph.D.(anthrop), 63. Dir. res. appl. anthrop, Methodist Church, Bolivia, 64-68; ASST. PROF. ANTHROP, CALIF. STATE COL. LOS ANGELES, 68- Elsie Clews Parsons award, 63. U.S.N.R, 53-62, Lt. Fel. Anthrop. Asn. Process and change; methodology and statistics; cross-cultural research; general ethnology; community development; personality; applied social science. Publ: The Aymara of Chinchera, Perú: persistence and change in a bicultural context, Univ. Microfilms, 63; An approach to the study of the assimilation process, 1963 Proc. Am. Ethnol. Soc, 64; Colonización y movilidad social en Bolivia, América Indígena, 68. Address: Dept. of Anthropology, California State College at Los Angeles, Los Angeles, Calif. 90032.

HICKMAN, DR. ROY D, b. Kress, Tex, Sept. 12, 32; m. 55; c. 2. STATISTICS, EDUCATION. B.S, Texas A&M, 54, M.Ed, 60; Ph.D.(ed), Iowa State, 67. For. area training adv, Texas A&M, 58-62, asst. registr, 62-63; instr. ed, IOWA STATE, 64-66, assoc. STATIST, 66-67, ASST. PROF, 67- U.S.A, 55-57, Res, 58-63, Capt. Statist. Asn; Agr. Econ. Asn; Biomet. Soc. Research design and analysis of research projects in the social sciences; operational aspects of surveys; statistical methods. Address: 1216 25th St, Ames, Iowa 50010.

HICKMAN, DR. W(ALTER) BRADDOCK, b. Baltimore, Md, Apr. 20, 11; m. 32. ECONOMICS, STATISTICS. B.A, Richmond, 33, hon. D.C.S, 66; Soc. Sci. Res. Coun. fel, Hopkins, 36-37, Ph.D, 37; hon. LL.D, Cincinnati, 66. Instr. econ. & statist, Princeton, 37-40; res. assoc, Nat. Bur. Econ. Res, 40-41, 42-43, sr. staff mem. & dir. corp. bond res. proj, 46-60; mem, Inst. Adv. Study, 41-42; sr. v.pres, FED. RESERVE BANK OF CLEVELAND, 60-63, PRES, 63- Lectr, Rutgers, 38-40; Carnegie fel, 40-41; supvr. econ. studies, N.Y. Life Ins. Co, 53-56; dir. econ. res, Am. Airlines, 56, asst. v.pres, 57-60. U.S.N.R, 43-46, Lt. Econ. Asn; Statist. Asn; Finance Asn; Asn. Bus. Econ. Banking; bond financing; bond yields and money rates; investments. Publ: Volume of corporate bond financing; Corporate bond quality and investor experience; Statistical measures of corporate bond financing since 1900. Address: Apt. C-5, 11428 Cedar Glen Pkwy, Cleveland, Ohio 44106.

HICKMAN, DR. WARREN L, b. Eden, N.Y, Apr. 2, 21; m. 47; c. 2. INTERNATIONAL RELATIONS. A.B, Colgate, 43; M.A, Columbia, 48; Swiss Govt. fel. & Am. Soc. for Friendship with Switz. fel, 48-49; Dr. Pol. Sci, Geneva, 49. From asst. prof. to assoc. prof. hist, Ohio Northern, 49-51, dean, univ, 51-54; prof. hist. & dean, col. arts & sci, Ithaca Col, 54-63; pres, Int. Inst. Found. Inc, 63-64; assoc. dir, soc. studies curriculum center, Maxwell Grad. Sch, Syracuse, 64-67; V.PRES. ACAD. AFFAIRS, EISENHOWER COL, 67- V.pres, Hickman Indust; Hickman Develops. U.S.A, 43-45, Bronze Star Medal, 45. Hist. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Diplomatic history; international economics. Publ: Genesis of the European recovery program, 49; The Ithaca College plan, 59; co-auth, Major concepts for the social studies, 65. Address: Eisenhower College, Seneca Falls, N.Y. 13148.

HICKMAN, PROF. WILLIAM H(ERBERT), b. Kirwin, Kans, Feb. 1, 20; m. 42. ECONOMICS. B.S, Kans. State Col, 41; M.A, Stanford, 49, Ford Found. faculty fel, 51-52, Ph.D.(econ), 52. Asst. prof. ECON, Humboldt State Col, 49-51; SACRAMENTO STATE COL, 53-56, assoc. prof, 56-61, PROF, 61-

U.S.A.A.F, 43-46. Econ. Asn. Economic theory; price and aggregative. Publ: Distribution of the burden of state taxes borne by California families. Address: 4201 Loazell Court, Sacramento, Calif. 95825.

HICKS, PROF. CHARLES ROBERT, b. Syracuse, N.Y, Apr. 7, 20; m. 42; c. 3. EDUCATION, STATISTICS. A.B, Syracuse, 42, M.A, 44, Ph.D.(ed), 53. Asst. physics, Syracuse, 42-44, instr. math. & ed, 46-53; qual. control engr, Eastman Kodak Co, 44-46; asst. prof. statist, PURDUE, 53-57, assoc. prof, 57-60, asst. dean, sch. sci. ed. & humanities, 60-64, PROF. ED. & HEAD DEPT, 64- Consult, Bayer & McElrath, 63- Statist. Asn; Soc. Qual. Control(Brumbaugh award, 57); Biomet. Soc. Statistical methods applied to industrial and educational problems. Publ: Fundamental concepts in the design of experiments, Holt, 64. Address: Dept. of Education, Purdue University. West Lafayette, Ind. 47907.

HICKS, PROF. CHARLES ROGER, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 62.

HICKS, PROF. CLAUDE W(ADE), b. Emanuel Co, Ga, Aug. 19, 14; m. 40; c. 3. SOCIOLOGY, ECONOMICS. B.A, Furman, 36, M.A, 38; summer, North Carolina, 47; Ph.D.(ed), George Peabody Col, 54. Prof. soc. studies, Brewton-Parker Jr. Col, 38-42; Norman Col, 46-53; assoc. prof. SOCIOL, Furman, 54-57; PROF, WESLEYAN COL.(GA), 57- Exten. class instr, Georgia, 60-, summer vis. prof, 63-65 & 67. U.S.N.R, 42-45, Res, 45-53, Lt. Holiness churches in Greenville County; the southern college registrar. Address: Dept. of Sociology & Economics, Wesleyan College, Macon, Ga. 31201.

HICKS, PROF. CLIFFORD M, b. Lincoln, Nebr, Feb. 8, 03; m. 28; c. 2. ECONOMICS, BUSINESS MANAGEMENT. LL.B, Nebraska, 24, M.A, 27, J.D, 66. Instr. BUS. ORGN. & MGT, NEBRASKA, 25-34, asst. prof. 34-38, assoc. prof, 39-49, PROF, 50- Mem. nat. budget & consultation cmn, United Community Funds, 62-68; Nat. Assembly Soc. Policy & Develop, Inc, 68- Econ. Asn; Finance Asn. Investments; law. Publ: Introduction of business; Business law; co-auth, Corporation finance. Address: Dept. of Business Organization & Management, University of Nebraska, Lincoln, Nebr. 68508.

HICKS, PROF. FRANCES ROSS, b. Sterling, Kans, July 23, 00; m. 25. PSYCHOLOGY. A.B, Sterling Col, 22; M.A, Colorado, 28; Ph.D, George Peabody Col, 33. Assoc. prof. PSYCHOL. & ED, Murray State Col, 30-46; Wesleyan Col, 46-48; PROF, GA. COL. MILLEDGEVILLE, 48-, HEAD DEPT. PSYCHOL, 62- Mental hygiene; teacher education. Publ: Mental health of teachers; Causes of absences of teachers; Laboratory-recitation method of teaching freshman English composition. Address: Dept. of Psychology, Georgia College at Milledgeville, Milledgeville, Ga. 31061.

HICKS, DR. FREDERIC N(OBLE), b. New Orleans, La, Jan. 7, 28; m. 58. ANTHROPOLOGY. B.A, New Mexico, 52; Ph.D.(anthrop), California, Los Angeles, 63. Instr. ANTHROP, Southern California, 61-62; ASST. PROF. & CHMN. DEPT, LOUISVILLE, 65- Fulbright lectr, Paraguay, 63-65. U.S.A, 53-55. Anthrop. Asn; Soc. Am. Archaeol. Aboriginal cultures of Mesoamerica and adjacent regions; contemporary Latin America; ecology; cultural evolution. Publ: Co-auth, Transition from classic to post-classic in the Valley of Mexico, 35th Int. Cong. Americanists, 64; auth, Politics, power, and the role of the village priest in Paraguay, J. Interam. Studies, 67. Address: Dept. of Anthropology, University of Louisville, Louisville, Ky. 40208.

HICKS, PROF. JOHN W, (III), b. Sydney, Australia, Dec. 2, 21; U.S. citizen; m. 47; c. 7. AGRICULTURAL ECONOMICS. B.S, Massachusetts, 46; M.S, Purdue, 48, Ph.D, 50. Instr. AGR. ECON, Massachusetts, 46-47; asst. prof, PURDUE, 50-53, assoc. prof, 53-60, PROF, 60-, EXEC. ASST. TO PRES, 55- Res. consult, Brookings Instn, 52, res. assoc, 53; dir, cmn. State Tax & Financing Policy, Ind, 53-55, consult, 57-61. Dir, Cmt. Inst. Co-op. Coun. Ten & Univ. Chicago, 60-62; chmn, Ind. Post High Sch. Ed. Study Cmn, 61-62. U.S.A.A.F, 43-46. Agr. Econ. Asn. Agricultural marketing; political economics; state and local government; publicly supported higher education. Address: Office of the President, Purdue University, Lafayette, Ind. 47907.

HICKS, PROF. MASON A(DELBERT), b. Minn, Jan. 3, 09; m. 48; c. 5. SPEECH. B.S, Northwestern, 31, M.A, 36; Ph.D.(speech), Wisconsin, 52. Head dept. speech, St. Cloud State Col, 36-42, 47-48; Minnesota, Duluth, 49-55; PROF. SPEECH & CHMN. PUB. ADDRESS STAFF, PURDUE, 55- U.S.A, 42-45. Speech Asn; Forensic Asn. Rhetoric of movements; American public address. Address: Dept. of Speech, Purdue University, Lafayette, Ind. 47907.

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HICKSON, DR. ROBERT H(UGH), b. Winnipeg, Man, Jan. 12, 29; m. 55. EXPERIMENTAL PSYCHOLOGY. B.A, British Columbia, 51, M.A, 54; Ph.D, Indiana, 59. Sci. officer PSYCHOL, Defense Res. Med. Labs, Defense Res. Bd. Can, 55-60; asst. prof, ARKANSAS, 60-65, ASSOC. PROF, 65- Psychol. Asn. Statistical learning theories; measurement and scaling in psychology. Publ: Response probability in a two-choice learning situation with varying probability of reinforcement, J. Exp. Psychol; Visibility on radar screens: the effect of scope brightness and range, Defense Res. Bd. Can. Address: Dept. of Psychology, University of Arkansas, Fayetteville, Ark. 72701.

HIDORE, DR. JOHN J, Phys. Geog, see Suppl. V to 11th ed, Phys. & Biol. Vols.

HIDY, DR. MURIEL E(MMIE), b. Johannesburg, S.Africa, Feb. 19, 06; nat; m. 28; c. 1. ECONOMICS. A.B, British Columbia, 27; M.A, Clark, 28; Ph.D. (econ), Radcliffe Col, 39. Instr. econ, Wheaton Col.(Mass), 31-39, asst. prof, 39-44, assoc. prof, 44-47; ASSOC, BUS. HIST. FOUND, INC, 47- Econ. Asn; Econ. Hist. Asn. Economic and business history. Publ: Co-auth, Pioneering in big business, history of Standard Oil Company, New Jersey, 1882-1911. Address: 108 Radcliffe Rd, Belmont, Mass. 02178.

HIEBERT, DR. PAUL G, b. Shamshabad, Andhra Pradesh, India, Nov. 13, 32; U.S. citizen; m. 54; c. 3. ANTHROPOLOGY. B.A, Tabor Col, 54; M.A, Mennonite Brethren Sem, 56; M.A, Minnesota, 58, Ph.D.(anthrop), 67. Prin, Bethany Col, India, 60-65; ASST. PROF. ANTHROP, KANSAS STATE, 66- For. Area fel. res. in India, 63-65. Anthrop. Asn. Indian culture, particularly village social structure and integration and processes of culture change. Address: Dept. of Sociology & Anthropology, Kansas State University, Manhattan, Kans. 66502.

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HIEMSTRA, DR. STEPHEN JAMES, b. Oskaloosa, Iowa, Apr. 17, 31; m. 52; c. 4. AGRICULTURAL ECONOMICS. B.S, Iowa State, 53, M.S, 57; Ph.D. (agr. econ), California, Berkeley, 60. Exten. economist, Iowa State, 55-57; jr. specialist, agr. exp. sta, California, Berkeley, 57-60; agr. economist, mkt. econ. div, ECON. RES. SERV, U.S. DEPT. AGR, WASH, D.C, 60-63, HEAD FOOD CONSUMPTION & UTILIZATION SECT, ECON. & STATIST. ANAL. DIV, 63- Ed, Nat. Food Situation, Econ. Res. Serv, U.S. Dept. Agr, 63- Cert. merit, U.S. Dept. Agr, 67. U.S.A.F, 53-55, Capt. Agr. Econ. Asn; Econ. Asn. Agricultural economics; marketing; food consumption; market organization. Publ: Growth patterns in the retail grocery business, Bull. 786, Univ. California, 62; Rising depreciation of assets in agricultural marketing firms: some causes and implications, U.S. Dept. Agr, 63; U.S. Food consumption, sources of data and trends, 1909-1963, Statist. Bull, 65. Address: 6808 Trexler Rd, Lanham, Md. 20801.

HIERONYMUS, PROF. A(LBERT) N(ATHAN), b. Armington, Ill, Nov. 22, 17; m. 41; c. 5. PSYCHOLOGY. B.Ed, Ill. State Norm. Univ, 39; M.A, Iowa, 46, Ph.D.(ed. psychol), 48. Asst. prof. ED. & PSYCHOL, IOWA, 48-51, assoc. prof, 52-59, PROF, 60- U.S.A, 42-45, Maj. Test development. Publ: Co-auth, Iowa tests of basic skills. Address: R.D. 5, Box 126, Iowa City, Iowa 52240.

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HIGBEE, PROF. EDWARD C(OUNSELMAN), b. New York, N.Y, Dec. 29, 10; m; c. 1. GEOGRAPHY. M.A, Wisconsin, 38; Ph.D.(geog), Hopkins, 49. Soil conservationist, U.S. Dept.Agr, 39-41, from agronomist to sr. agronomist, 41-47; asst. prof. geog. & res. assoc, Hopkins, 48-49; vis. assoc. prof, Yale, 50; PROF. geog, Clark, 50-57; geog. & agr. econ, Delaware, 57-62; GEOG, RHODE ISLAND, 62- Dir. agr. in transition study, Twentieth Century Fund & dir. res. study of America's pub. environ, 65-66. Consult, Ministries Agr, Brazil, Peru, Ecuador, El Salvador, Nicaragua & Guatemala; urban policy, Brookings Inst, 64- AAAS; Am. Geog. Soc; Soc. Agron; Soil Sci. Soc. Land utilization and conservation, especially land use planning; rural and urban land utilization; urban-rural environment theory. Publ: American agriculture; The squeeze; Farms and farmers in an urban age, 20th Century, 63. Address: Dept. of Geography, University of Rhode Island, Kingston, R.I. 02881.

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HIGGINS, GEORGE ANDREW, S.J, b. Boston, Mass, June 2, 08. POLITICAL SCIENCE. A.B, Boston Col, 37, A.M, 38; L.S.T, Weston Col, 43; Ph.D, Fordham, 49. Instr. hist. & govt, HOLY CROSS COL, 38-39, asst. prof. POLIT. SCI, 47-52, assoc. prof, 53-56, PROF, 56-, chmn. dept. hist. & polit. sci, 53-64. Pres, Am. Jesuit Hist. Conf, 63-64. Polit. Sci. Asn; sr. mem. Soc. Pub. Admin; Hist. Soc; Acad. Polit. & Soc. Sci; Int. Polit. Sci. Asn. National, state and urban government; public administration; constitutional law. Address: Dept. of History & Political Science, Holy Cross College, Worcester, Mass. 01610.

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HIGGINS, PROF. RODNEY G(ONZALES), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased.

HIGGINS, DR. TRUMBULL, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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child guidance clinic, In: Rorschach technique, clinical applications. Address: 2110 Vinewood Blvd. Ann Arbor. Mich. 48104.

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HIGHLAND, DR. RICHARD W(ILLIAM), Psychol, see 10th ed, Soc. & Behav. Vols.

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HIGHTOWER, DR. PLEASANT R(OSCOE), b. Glezen, Ind, Nov. 8, 86; m. 34. PSYCHOLOGY. A.B, Ind. Cent. Col, 14; M.A, Indiana, 17; Ph.D.(psychol), Iowa, 29. Teacher, rural schs, Ind, 09-12; prin, Ill, 14-15; pub. schs, Philippine Islands, 19-22; asst. prof. ed. & psychol, Butler, 22-29, assoc. prof. psychol, 29-33; organizer & dir, Emergency Ed. Ind, 33-34; prof. psychol. & head dept. ed. & psychol, Cent. Norm. Col, 34-46, dean, 40-46, pres, 44-46; private practice, 46- Psychol. Asn. Psychology of character development; Biblical information in relation to character and conduct. Address: R.D. 6, Frankfort, Ind. 46041.

HIGHTOWER, PROF. RAYMOND L(EE), b. Mecklenburg Co, Va, Feb. 16, 03; m. 31; c. 3. SOCIOLOGY. A.B, Richmond, 23; A.M, Pennsylvania, 30; B.D, Crozer Theol. Sem, 30, Th.M, 31; Ph.D, Chicago, 33. Prin, jr. high sch, Brightwood, Va, 23-24; tutor, Foochow Col, China, 24-27; asst. prof. SOCIOL, KALAMAZOO COL, 34-39, PROF, 39-, dean acad. affairs, 62-64. Mayor, Kalamazoo, 63-67. Fel. AAAS; fel. Sociol. Asn; Statist. Asn. Publ: Joshua L. Wilson, frontier controversialist, Church Hist; Sociological conception of morale, Soc. Forces; Taking the public pulse on municipal services, Pub. Opin. Quart. Address: Dept. of Sociology & Anthropology, Kalamazoo College, Kalamazoo, Mich. 49001.

HIGLEY, DR. JOHN C, b. Springfield, Mass, Oct. 25, 38; m. 66. POLITICAL SOCIOLOGY & SCIENCE. B.A, Norwich, 60; M.A, Connecticut, 64, Ph.D. (polit. sci), 68. Res. fel. polit. sociol, Norwegian Soc. Sci. Res. Coun, 68-69; ASST. PROF. SOCIOL, TEXAS, 69- U.S.A, 62-64, Res, 64-, Capt. Sociol. Asn; Polit. Sci. Asn. Political structures and processes in advanced societies, particularly elite structure and interaction. Address: Dept. of Sociology, University of Texas, Austin, Tex. 78712.

HIGMAN, PROF. (WILLIAM) HOWARD (HUNTER), b. Boulder, Colo, Apr. 25, 15; m. 41; c. 3. SOCIOLOGY. B.A, Colorado, 37, M.A, 42. Asst. prof. SOCIOL, COLORADO, 48-61, PROF, 61-, chmn. conf. world affairs, 48-62. Lectr, Frankfort, 50; guest lectr, Salzburg Seminar Am. Studies, 50-51, 57; dir. northcent. region, VISTA Training Center, 67- Consult, Colo. Coun. Migrant & Seasonal Agr. Workers & Families, 66-; U.S. Dept. Labor, 66-; Off. Econ. Opportunity, 67-; U.S. Dept. Health, Ed. & Welfare, 67- Participant, Am. Friends Serv. Cmt. & Russian Govt. Seminar World Peace, Sochi, U.S.S.R, 66. AAAS; Sociol. Asn. Theories of the effects of war; processes of social integration in the world community; conflict revolution; control of war. Publ: Co-auth, The Monte Vista story, 65, The Colorado story, 65 & The Colorado story II, 66, Bur. Soc. Res, Univ. Colorado. Address: Dept. of Sociology, University of Colorado, Boulder, Colo. 80302.

HILBERG, PROF. RAUL, b. U.S, June 2, 26. POLITICAL SCIENCE. B.A, Brooklyn Col, 48; M.A, Columbia, 50; Ph.D.(pub. law, govt), 55. Res. specialist, war document. proj, Columbia, 51-52; lectr. POLIT. SCI, Hunter Col, 54; Puerto Rico, 54-55; asst. prof, VERMONT, 56-61, assoc. prof, 61-67, PROF, 67- Consult, Jewish Encyclop. Handbooks, Inc, 62- U.S.A, 44-46. Polit. Sci. Asn; Am. Soc. Int. Law. International relations and American foreign policy. Publ: Destruction of the European Jews. Address: Dept. of Political Science, University of Vermont, Burlington, Vt. 05401.

HILBERT, DR. RICHARD EDWARD, b. Reading, Pa, Dec. 19, 23; m. 49; c. 4. SOCIOLOGY. B.A, New Mexico, 52; Ph.D.(sociol), Pa. State, 62. Instr. SOCIOL, Allegheny Col, 57-61, asst. prof, 61-64; ASSOC. PROF. SOCIOL. & CHMN. DEPT, OKLAHOMA, 64- U.S.A, 43-46; Sociol. Asn; Soc. Sci. Study Relig; Nat. Coun. Crime & Delinquency. Sociology of deviance and social control; sociology of religion. Address: Dept. of Sociology, University of Oklahoma, Norman, Okla. 73069.

HILBORN, DR. KENNETH HARRY WARREN, Mod. Hist, Int. Rels, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HILDEBRAND, DR. DAVID K(ENT), b. Minneapolis, Minn, June 24, 40; m. 64; c. 1. STATISTICS. B.A, Carleton Col, 62; Nat. Defense Ed. Act fel, Carnegie Inst. Tech, 62-65, M.S, 65, Ph.D.(statist), 67. Teaching asst. statist, Carnegie Inst. Tech, 65; lectr. STATIST. & OPERS. RES, PENNSYLVANIA, 65-66, ASST. PROF, 66- Nat. Sci. Found. summer res. grant, 67. Inst. Math. Statist. Probability, theory applied to queueing problems; general statistical inference theory. Publ: Stability of tandem server, finite queue service systems, J. Appl. Probability, 67. Address: Dept. of Statistics & Operations Research, Wharton Graduate School, University of Pennsylvania, Philadelphia, Pa. 19104.

HILDEBRAND, PROF. GEORGE H, b. Oakland, Calif, July 7, 13; m. 37; c. 3. ECONOMICS. B.A, California, 35; Lee fel, Harvard, 37-38, M.A, 41; Ph.D. (econ), Cornell, 42. Prin. economist, Nat. War Labor Bd, 43-44; dir. wage stabilization div, Regional War Labor Bd, Colo, 44-45; asst. prof. soc. insts, California, 45-47; econ, California, Los Angeles, 47-49, assoc. prof, 49-54, prof, 54-60, dir, inst. indust. rels, 56-60; PROF. ECON, CORNELL, 60- Guggenheim fel, 52-53, 58; Fulbright fel, Italy, 52-53; fel, Merrill Center Econ, N.Y, 54; vis. prof, Mass. Inst. Tech, 64-65; Dept. Health, Ed. & Welfare Coop. Res. & Demonstration Grant Prog. grant, 67-68. Consult, Off. Strategic Serv, 42. Mem, President's Cost Living Cmt, 44; expert witness, Joint Econ. Cmt, U.S. Cong, 57, 59; mem, adv. cmt. steel indust. study to Secy. Labor, 59-60; mem. & chmn, adv. cmt. res, div. res. & statist, Soc. Security Admin, Dept. Health, Ed. & Welfare, 64-67; mem. Comitato per le Scienze politiche e sociali, Italy, 66-68. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Economic theory; labor economics; history of economic ideas. Publ: Growth and structure in the economy of modern Italy, Harvard Univ. Press, 65; co-auth, Manufacturing production functions in the United States, 1957, 65 & auth, Poverty, income maintenance and the negative income tax, 67, Cornell. Address: Cornell University, 258 Ives, Ithaca, N.Y. 14850.

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HILDEBRAND, DR. PETER E(DWARD), b. Brush, Colo, Sept. 27, 32; m. 52. AGRICULTURAL ECONOMICS. B.S, Colorado State, 55, M.S, 56; Ph.D, Mich. State, 59. Asst. prof. agr. econ, Agr. & Mech. Col, Tex, 59-61; asst. prof. econ, univ. & asst. economist, agr. exp. sta, Colorado State, 61-64; agr. economist, Tipton & Kalmbach, Inc, Pakistan, 64-65, chief of planning, 65-66; AGR. ECONOMIST, U.S. AGENCY INT. DEVELOP, 67-68, UNIV. NEBRASKA MISSION TO COLOMBIA, 68- Am. Agr. Econ. Asn; Can. Agr. Econ. Soc; Colombian Agr. Econ. Asn. Reclamation and development planning; regional and national agricultural development and policy; production economics and management. Address: U.S. Agency for International Development, American Embassy, Bogotá, Colombia.

HILDEBRAND, W, b. U.S.S.R, May 3, 28; Can. citizen; m. 54; c. 2. GEOGRAPHY. B.A, Western Ontario, 51. Teacher Eng, hist. & geog, West Hill Collegiate Inst, 56-59; HEAD DEPT. GEOG, ROYAL YORK COLLEGIATE INST, 59- Can. Asn. Geog. Co-ordination and writing of programs for educational television. Publ: Co-auth, Through Europe and Asia, 61, Beyond our borders, 62, Lands of the eastern hemisphere, 67, Holt. Address: Royal York Collegiate Institute, 675 Royal York Rd. S, Toronto 18, Ont, Can.

HILDEBRANDT, DR. CHARLES A, b. Canton, Ohio, Aug. 23, 33; m. 58; c. 2. SOCIOLOGY. B.S, Kent State, 55, M.A, 59; fel, Ohio State, 59-60, Ph.D. (sociol), 62. Asst. prof. SOCIOL, KENT STATE, 62-67, ASSOC. PROF, 67-

U.S.N, 56-58. Sociol. Asn; Soc. Sci. Study Relig. Race and ethnic relations; sociology of religion. Address: Dept. of Sociology, Kent State University, Kent, Ohio 44240.

HILDEN, DR. ARNOLD H(ENRY), b. Diamond Bluff, Wis, Apr. 4, 01; m. 36. PSYCHOLOGY. B.S, Minnesota, 28, M.A, 31; Ph.D.(psychol), Iowa, 35. Ment. exam, div. res, State Dept. Pub. Insts, Minn, 28-32; res. assoc. & staff lectr. clin. psychol, Iowa, 32-35; chief clin. psychologist, child study dept, Minneapolis Pub. Schs, Minn, 35-37; assoc. prof. psychol. growth, sch. med, Colorado, 37-47; br. chief clin. psychologist, br. off, VET. ADMIN, ST. LOUIS, MO, 47-49, CHIEF PSYCHOLOGIST, MENT. HYG. CLIN, HOSP, 49-, chief training unit, 49-53, secy. regional training cmt, 58-67. Vis. prof. & clin. res. assoc, Washington (St. Louis), 49- Consult, br. 13, Vet. Admin, Denver, Colo, 47; Mo. Bur. Blind, 59- Exam. & dipl, Am. Bd. Exam. Prfnl. Psychol; dipl, Am. Bd. Exam. Psychol. Hypnosis. Fel. Psychol. Asn; fel. Soc. Proj. Tech; Soc. Clin. Hypnosis. Projective techniques in psychological diagnosis. Publ: Manual for Q-sort and random sets of personal concepts; Universe of personal concepts. Address: Mental Hygiene Clinic, Veterans Administration Hospital, 915 N. Grand Blvd, St. Louis, Mo. 63106.

HILDRETH, PROF. CLIFFORD (GEORGE), b. McPherson, Kans, Dec. 8, 17; m. 42; c. 4. ECONOMICS, STATISTICS. A.B, Kansas, 39; M.A, Iowa State, 41, Ph.D, 47. Instr. econ, Iowa State, 40-43, 46-47, asst. prof. econ. & statist, 47, assoc. prof, 48; asst. prof, Chicago, 49-51, assoc. prof, 51-53; prof. agr. econ, N.C. State Col, 53-55; Mich. State, 55-58, prof. econ. & head dept, 58-60, PROF. econ. & agr. econ, 60-64, ECON, STATIST. & AGR. ECON, MINNESOTA, MINNEAPOLIS, 64- Vis. prof, Iowa State, 50; Minnesota, 56, 61; fel, Inst. Adv. Study Behav. Sci, 61-62. Consult, U.S. Dept. Treas, 51-52; res. consult, Cowles Cmn. Res. Econ, 53-59; Tenn. Valley Authority, 55-60; agr. res. serv, U.S. Dept. Agr, 56-58; Rand Corp, 64-; Fed. Commun. Cmn, 68- U.S.N.R, 43-46, Lt. Econ. Asn; fel. Statist. Asn.(ed, J. Am. Statist. Asn, 60-65, v.pres, 68-69); fel. Economet. Soc; Agr. Econ. Asn; fel. Inst. Math. Statist. Mathematical economics; decision theory; public policy and economic welfare. Publ: Alternative conditions for social orderings, Econometrica; co-auth, Demand relations with autocorrelated disturbances, Mich. Agr. Exp. Sta. Bull. and Statistical study of livestock production and marketing. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

HILDRETH, PROF. GERTRUDE H(OWELL), b. Terre Haute, Ind, Oct. 11, 98. PSYCHOLOGY. A.B, N.Cent. Col, 20; A.M, Illinois, 21; Ph.D, Columbia, 25. Psychologist, pub. schs, Okla, 21-23; asst. ed. psychol, Columbia, 24, psychologist, Lincoln Sch, teachers col, 25-45; from asst. prof. to assoc. prof. ED, BROOKLYN COL, 49-59, prof, 59-65, EMER. PROF, 65- Vis. prof, American Univ. Beirut, 64-68. AAAS; Psychol. Asn. Educational and child psychology; educational measurement. Publ: Teaching reading, Holt, 58; Introduction to the gifted, McGraw, 66. Address: 262 Eighth Ave, Sea Cliff, N.Y. 11579.

HILDRETH, DR. HAROLD M(OWBRAY), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

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HILDYARD, VIDA GRACE, Math. Statist, see 11th ed, Phys. & Biol. Vols.

HILER, DR. EDWARD WESLEY, b. New Rochelle, N.Y, Jan. 21, 24; m. 50; c. 3. PSYCHOLOGY. B.A, Princeton, 49; fel, Michigan, 49-50, M.A, 52, Ph.D, 54. Intern clin. psychol, Vet. Admin, 50-53; instr. psychol. & philos, Nevada, 53-56; assoc. prof, Chapman Col, 56-58; clin. psychologist, Agnew State Hosp, 58-59; chief psychologist, Ment. Health Res. Inst, Ft. Steilacoom, Wash, 59-60; clin. psychologist, Nev. State Prison, 60-64; ASSOC. PROF. PSYCHOL, CLARKSON TECH, 64- U.S.N, 44-46. AAAS; Psychol. Asn. Psychotherapy; personality theory; psychology of international relations. Publ: Co-auth, Criteria used to infer pathology, 65 & auth, Prognostic indicators, 66, J. Consult. Psychol. Address: Dept. of Psychology, Clarkson College of Technology, Potsdam, N.Y. 13676.

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HILGARD, PROF. JOSEPHINE R(OHRS), b. Napoleon, Ohio, Mar. 12, 06; m. 31; c. 2. PSYCHOLOGY. A.B, Smith Col, 28; fel, Merrill-Palmer Sch, 29-30; A.M, Yale, 30, Ph.D.(psychol), 33; M.D, Stanford, 40. Clin. psychologist, child guid. clin, Buffalo Found, 30-31; asst, child develop. clin, Yale, 32-33; res. assoc. psychol, Stanford, 35-36; instr. psychol. & counsr. ment. hyg, sch. nursing, St. Luke's Hosp, San Francisco, 36-40; fel. psychiat. & mem. staff, Inst. Juvenile Res, 40-42; Rockefeller fel. psychoanal, Inst. Psychoanal, 41-42; assoc. psychiatrist, Chestnut Lodge Sanitorium, Md, 42-44; lectr, sch. soc. welfare, California, 45-47; CLIN. PROF. PSYCHIAT, STANFORD, 47- Dir, child guid. clin, Children's Hosp, San Francisco, Calif, 45-48. Consult, Vet. Admin. Hosp, 47- Collab. child develop, Am. Coun. Ed, Ill, 41-42. Psychol. Asn; Am. Med. Asn; Psychoanal. Asn; Psychiat. Asn. Social factors in the etiology of childhood and adult schizophrenia; identification patterns in schizophrenia; personality patterns in hypnosis. Address: 1129 Hamilton Ave, Palo Alto, Calif. 94301.

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HILL, DR. CONRAD ROLPH, b. Copper Cliff, Ont, Jan. 15, 18; m. 52. MASS COMMUNICATION. A.B, Michigan, 50; M.A, Stanford, 57; Am. Newspaper Publishers Asn. summer fel, Iowa, 60, Ph.D.(mass commun), 64. Asst. advert. mgr, Sparton Radio-TV Div, Sparks Withington Co, 50-52; acct. exec, Gray Advert. Agency, Colo, 52-54; advert. sales mgr, Atomic Res. Corp, 54-56; asst. ed, Stanford Grad. Bull, 56-58; asst. prof. advert, Missouri, 58; lectr, North Carolina, 58-60; asst. prof, Nebraska, 60-62; MKT, Western Michigan, 63-65; ASSOC. PROF, RHODE ISLAND, 65- Mem, Advert. Res. Found. Can. Army, 43-44. Mkt. Asn. Development of a thorough bibliography on the semantic differential; role of mood on questionnaire responses; measures of pre-publication of advertising appeals. Publ: Aberrant image of advertising, Univ. Nebraska, 60; contrib, Bibliography of semantic differential research, Aldine, (in press); auth, Advertising education: pariah of academe, Saturday Rev, 2/65. Address: 310 Ballentine Hall, University of Rhode Island, Kingston, R.I. 02881.

HILL, DANIEL A, b. Wapwallopen, Pa, Dec. 26, 98. ECONOMICS. A.B, Western Reserve, 29, M.B.A, 36. Commercial engr. & asst. to pres, Ohio Pub. Serv. Co, 24-29, chief commercial eng. dept, 29-40, asst. to pres, 40-46; gen. rate & valuation engr, Ohio Edison Co, 49-51; consult. engr, 51-59; pub. utility specialist, U.S. Opers. Mission, Int. Coop. Admin, Korea, 59-66; proj. mgr. & adv. utility mgt. in finance, Coun. Int. Econ. Coop. & Develop, 66-68; CONSULT. ENGR, 68- Lectr, Fenn Col, 39-47; John Carroll, 46-53; exec, Yuan Seminar, Taiwan, 53-54; prof, Soochow Univ, 53-54. V.pres, Alliance Pub. Serv. Co, 37-43; dir. & v.pres, Stock Equip. Co, 57-58. AAAS; Econ. Asn; Economet. Soc; Statist. Asn; Pop. Asn; Inst. Elec. & Electronics Eng; Nat. Soc. Prfnl. Eng; Inst. Mgt. Sci; Opers. Res. Soc. Am; Financial Anal. Fedn; Am. Acct. Asn; Asn. Cost Eng; Systs. & Procedures Asn. Public utility economics and management; energy resources; public utility regulation. Address: 1633 Compton Rd, Cleveland, Ohio 44118.

HILL, DEAN DONALD W(ALTER), b. Hazleton, Pa, Jan. 13, 22; m. 49; c. 3. MARKETING, BUSINESS ECONOMICS. B.S, Bucknell, 53; M.S, Cornell, 55; Massey Found. fel, American Univ, 59-60, Cokesbury Award fel, 60-61, Ph.D, 61. Instr. econ, Bucknell, 53; asst. labor rels, Cornell, 53-54; commun. rep, Am. Tel. & Tel. Co, 54-56, statist. supvr, mkt. res, 56-58; asst. prof. mgt. econ, Rollins Col, 58-59; vis. prof. mkt, American Univ, 59-61; asst. prof, Lehigh, 61-66; PROF. ECON. & DEAN, ROLLINS COL, 66- Consult, Chesapeake & Potomac Tel. Cos, D.C, 60. U.S.C.G, 43-44. Econ. Asn; Mkt. Asn. Economic, social and political impact of national advertising institutions on the formation and efficiency of public policy toward advertising. Publ: Organization and management of a marketing research group; co-auth, Small business members utilization and appraisal of programs and services of selected national trade associations. Address: Dept. of Economics, Rollins College, Winter Park, Fla. 32789.

HILL, PROF. DUANE W(ICKS), b. Wright Co, Iowa, June 4, 24; m; c. 2. POLITICAL SCIENCE. M.A, Iowa, 50, Ph.D.(polit. sci), 53. Instr. polit. & soc. sci, Iowa, 51-53; polit. sci. & pub. admin, Bradley, 53-54; POLIT. SCI, Omaha, 54-56, asst. prof, 56-57; Montana State, 57-62, assoc. prof, 62; Wyoming, 62-64; COLORADO STATE, 64-67, PROF, 67- Res. assoc, Soc. Sci. Found, Univ. Denver, 64-65; dir. water resource admin. proj, Off. Water Resources res. grant, 64-68. Consult, Greater Peoria Indust. Surv, Peoria Asn. Commerce, Ill, 53-54; Int. Asn. Chiefs Police, 67- Polit. Sci. Asn; Sociol. Asn. Political theory; state and community politics and administration; political behavior. Publ: Co-auth, The contemporary world, Prentice-Hall, 60; A cross-cultural approach to political alienation, Rocky Mt. Soc. Sci. J, 65; The dynamics of the public role in the selection of revenue sources in local water administration, Water Resources Res. J, 67. Address: Dept. of Political Science, Colorado State University, Ft. Collins, Colo. 80521.

HILL, PROF. E(LTON) B, b. Davison, Mich, May 22, 94; m. 37. AGRICULTURAL ECONOMICS. B.S, Mich. State, 15, M.Agr, 22; M.S, Cornell, 27. Asst. to dean & dir. sch. agr, MICH. STATE, 20-28, dir. short course, 25-26, head dept. farm mgt, 28-48, prof. AGR. ECON, 48-64, EMER. PROF, 64- Acting head dept. agr. econ, exp. sta, Puerto Rico, 38-39; dir, Farm Credit Admin, Minn, 51-52. Agr. Econ. Asn.(v.pres, Farm Econ. Asn, 43); Int. Asn. Agr. Econ. Farm management; land tenure; farm finance. Publ: Co-auth, Principles of farm management; auth, Father and son farm partnerships & co-auth, Types of farming in Michigan, Mich. Agr. Exp. Sta. Spec. Bull. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

HILL, PROF. EVAN, b. Philadelphia, Pa, Jan. 20, 19; m. 46; c. 2. JOURNALISM. B.A, Stanford, 48; M.S, Boston, 50. Reporter, KVOS, Bellingham, Wash, 38-39, Daily Alaska Empire, Juneau, 40-41; ed, Argus-Champion, Newport, N.H, 48-49; from instr. to assoc. prof. journalism, Boston, 50-56; assoc. prof, Ohio State, 56-57; free-lance writer, 57-65; PROF. JOURNALISM & HEAD DEPT, CONNECTICUT, 65- Newspaper consult. U.S.A, 41-48, Capt. History of Alaska. Publ: Co-auth, Secrets of long life, Random, 60 & A life after death, Doubleday; auth, Beanstalk, MPB, 66. Address: Dept. of Journalism, University of Connecticut, Storrs, Conn. 06268.

HILL, PROF. FOREST G(ARRETT), b. Goldthwaite, Tex, Oct. 22, 19; m. 43; c. 4. ECONOMICS. A.B, Texas, 41, A.M, 46; Ph.D.(econ), Columbia, 50. Instr. econ, Columbia, 47-49; lectr, California, 49-51, asst. prof, 51-57; Melvin H. Baker assoc. prof. Am. enterprise, Buffalo, 57-60; PROF. ECON, TEXAS, AUSTIN, 60- Soc. Sci. Res. Coun. fel, 56-57. Ed, J. Econ. Issues, 66- U.S.A.A.F, 42-46. Econ. Asn; Econ. Hist. Asn. American economic history; government aid to transportation; government and science; regional economic development. Publ: Roads, rails and waterways: the army engineers and early transportation, Univ. Oklahoma, 57; co-ed, American economic history: essays in interpretation, Lippincott, 66; auth, Regional aspects of economic development, Land Econ, 5/62. Address: Dept. of Economics, University of Texas, Austin, Tex. 78712.

HILL, DR. FRANCES A(ILEEN), b. Christiansburg, Va, May 3, 38. PSYCHOLOGY. B.A, Florida, 60; M.A, Ohio State, 61, Nat. Insts. Health fel, 64, Ph.D.(human learning), 65. Nat. Sci. Found. res. fel, 65-66; ASST. PROF. PSYCHOL, MONTANA, 66- Psychol. Asn. Cognitive factors in human learning and conditioning. Publ: Co-auth, The effect of stimulus compounding in paired-associate learning, J. Verbal Learning & Verbal Behavior, 62; co-auth, Effect of instructions and UCS strength on extinction of the conditioned GSR, 63 & auth, The effects of instructions and SS need for approval on the conditioned galvanic skin response, 67, J. Exp. Psychol. Address: Dept. of Psychology, University of Montana, Missoula, Mont. 59801.

HILL, PROF. GEORGE W(ILLIAM), Rural Sociol, see 10th ed, Soc. & Behav. Vols.

HILL, DR. HARRIS ERNEST, b. Sault Ste Marie, Mich, Mar. 9, 04; m. 49; c. 1. PSYCHOPHARMACOLOGY. A.B, Western Michigan, 39; M.A, Indiana, 42, Ph.D.(psychol), 48. Instr. psychol, Indiana, 46-47, asst. dir. aviation res, 47-49; SR. RES. PSYCHOLOGIST, ADDICTION RES. CENTER, U.S. PUB. HEALTH SERV. HOSP, 49- Consult, hosp. div, U.S. Pub. Health Serv, Lexington, Ky. AAAS; Soc. Pharmacol; Psychol. Asn; Speech & Hearing Asn. Drug addiction; analgesia; anxiety; motivations; general psychopharmacology. Address: Addiction Research Center, U.S. Public Health Service Hospital, Leestown Rd, Box 2000, Lexington, Ky. 40501.

HILL, DR. HOWARD L(YLE), b. Wessington, S.Dak, Mar. 12, 28; m. 57; c. 3. AGRICULTURAL ECONOMICS. B.S, S.Dak. State Col, 51; M.S, Wisconsin, 55, Ph.D, 57. Res. assoc. agr. econ, Wisconsin, 56-57; agr. economist, farm econ. div, ECON. RES. SERV, U.S. DEPT. AGR, 57-65, asst. chief resource insts. br, NATURAL RESOURCE ECON. DIV, 65-66, DEP. DIR. RES, 66- U.S.A, 51-53, 1st Lt. Agr. Econ. Asn. Land and water economics; agricultural policy. Address: 206 McHenry St, Vienna, Va. 22180.

HILL, DR. JAMES EDWIN, JR, b. Elizabeth, N.J, Oct. 16, 32; m. 54; c. 2. GEOGRAPHY. A.B, Tennessee, 58, M.Sc, 59, Ph.D.(geog), 63. Asst. prof. GEOG, Sam Houston State Col, 63; assoc. prof, Morehead State Col, 63-64; asst. prof, Arizona State, 64-67; ASSOC. PROF, OREGON COL. ED, 67- Arizona State Univ. faculty res. grants, 64-66; Nat. Acad. Sci. travel grant, Int. Geog. Union Latin Am. Regional Conf, Mex. City, 66. U.S.A.F, 52-56, Res, 56-64; U.S.N.R, 64- Soc. Vert. Paleont; Asn. Am. Geog; Nat. Coun. Geog. Ed. Geopolitical studies of the United States-Mexican international boundary. Publ: Economic geography, 66, Physical geography, 68, Barrister; co-auth, Physical geography laboratory manual, W.C. Brown, 2 eds, 66 & 67. Address: Dept. of Geography, Oregon College of Education, Monmouth, Ore. 97361.

HILL, DR. JAMES NEWLIN, b. Pomona, Calif, Nov. 30, 34; m. 58; c. 3. ANTHROPOLOGY. B.A, Pomona Col, 57; Nat. Defense Ed. Act fel, Chicago, 60-63, M.A, 53, Nat. Sci. Found. fel, 64-65, Ph.D.(anthrop), 65. ASST. PROF. ANTHROP, CALIFORNIA, LOS ANGELES, 65-, jr. faculty fel, summer, 67. U.S.N, 57-60, Lt.(jg). Anthrop. Asn; Soc. Am. Archaeol. Analytical methods in archaeology; archaeology of the American Southwest and of North America. Publ: A prehistoric community in eastern Arizona, Southwest. J. Anthrop, spring 66; co-auth, chaps, In: The prehistory of eastern Arizona, III Fieldiana: Anthropology 57, Field Mus. Nat. Hist, 67; auth, Broken K Pueblo: patterns of form and function, In: New perspectives in archaeology, Aldine, (in press). Address: Dept. of Anthropology, University of California, Los Angeles, Calif. 90024.

HILL, JOHN H(ENRY), Opers. Anal, Psychol, see 11th ed, Phys. & Biol. Vols.

HILL, DR. JOHN PAUL, b. Michigamme, Mich, July 20, 38. PSYCHOLOGY. A.B, Stanford, 58; Woodrow Wilson fel, Harvard, 58-59, U.S. Pub. Health Serv. fel, 59-60, univ. fel, 60-63, Ph.D.(clin. psychol), 64. Asst. psychologist, Mass. Gen. Hosp, 62-63; asst. prof. CHILD PSYCHOL, MINNESOTA, MINNEAPOLIS, 63-67, ASSOC. PROF, 67- U.S. Pub. Health Serv. res. grant, Minn. Symp. Child Psychol, 66-70. Psychol. Asn; Soc. Res. Child Develop. Personality and social development; socialization; parent-child relations; community psychology. Publ: Minnesota symposia on child psychology, vol. I, Univ. Minnesota, 67; Similarity and accordance between parents and sons in attitudes toward mathematics, Child Develop, 9/67. Address: Institute of Child Development, University of Minnesota, Minneapolis, Minn. 55455.

HILL, DR. KENNEDY THOEN, b. Hempstead, N.Y, June 12, 39; m. 64. PSYCHOLOGY. B.A, Yale, 62; Ph.D.(child psychol), Minnesota, 65. ASST. PROF. PSYCHOL, ILLINOIS, URBANA, 65- Psychol. Asn; Soc. Res. Child Develop. Experimental child psychology, especially motivation and personality development; test anxiety, achievement motivation, and intellectual performance; social reinforcement effects with children; learning and imitation; sex-typing. Publ: Co-auth, The relation of test anxiety and defensiveness to test and school performance over the elementary school years: a further longitudinal study, Monogr. Soc. Res. Child Develop, 66; Use of rate as a measure of response in studies of social reinforcement, Psychol. Bull, 66; auth, Social reinforcement as a function of test anxiety and success-failure experiences, Child Develop, 67. Address: 196 Davenport Hall, University of Illinois, Urbana, Ill. 61801.

HILL, DR. LAWRENCE S, b. Gary, Ind, Nov. 10, 23; m. 64; c. 1. OPERATIONS RESEARCH, INDUSTRIAL ENGINEERING. B.S, Purdue, 47; cert. indust. hyg, Ga. Inst. Tech, 48; M.B.A, Southern California, 60, M.S, 62, Engr, 65, Ph.D, 68. Asst. indust. engr, Gary Sheet & Tin, U.S. Steel Co, 47, indust. engr, Nat. Tube Co, 50-52; staff engr, U.S. Pub. Health Serv. & Ill. Dept. Pub. Health, 47-50; sr. engr, Nat. Safety Coun, 52-53; sr. indust. engr, Martin Co, 53-55; staff asst. admin. anal. & control, Douglas Aircraft Co, 55-57; MEM. STAFF MANAGERIAL & ECON. RES, RAND CORP, 57- Lectr, Southern California, 62-; guest lectr, California, Los Angeles, 63-66. Opers. Res. Soc; Inst. Indust. Eng. Systems and economic analysis; managerial research; long-range planning; cost analysis and control; operations research; computer technology; planning and control of operations; management principles. Publ: The application of queuing theory to the span of control, Acad. Mgt, 3/63; Some cost accounting problems in pert cost, 2/66 & Towards an improved basis of estimating and controlling R & D tasks, 8/67, J. Indust. Eng. Address: 3653 Oceanhill Way, Malibu, Calif. 90265.

HILL, PROF. LEWIS EDGAR, b. Baird, Tex, Nov. 4, 22; m. 46; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Texas, 47, M.A, 48, fel, 51-53, Ph.D.(econ. hist), 57. Asst. prof. econ, Furman, 48-51, 53-54; prof. bus. admin. & econ, Shorter Col, 54-58; assoc. prof. ECON, CLEMSON, 58-66, PROF, 66- Summer, Found. Econ. Ed. fel, Michael Flynn Mfg. Co, Pa, 57. U.S.A, 43-46. Econ. Asn. Economic theory; economic history; labor economics; personnel management. Publ: Man on the assembly line & Strategy of economic development, South. Econ. J; Survey of the economic development of Rome and Floyd County, Georgia. Address: Dept. of Economics, Clemson University, Clemson, S.C. 29631.

HILL, PROF. MOZELL C(LARENCE), b. Anniston, Ala, Mar. 27, 11. SOCIOLOGY. A.B, Kansas, 33, A.M, 37; Ph.D, Chicago, 46. Instr. sociol, Langston, 37-39, asst. prof, 39-42, assoc. prof, 42-43, prof, 43-46; Atlanta, 46-58, acting chmn. dept, 46-47, chmn, 47-58; prof. sociol. & ed, Teachers Col. Columbia, 58-62; dir. juvenile delinquency planning grant proj, City of St. Louis, Mo, 62-63; PROF. ED. SOCIOL, N.Y. UNIV, 63- Vis. lectr, Edinburgh, Manchester & Cambridge, 52-53; adv. soc. sci, Univ. Nigeria, W.Africa, 60-62; Danforth res. fel, 67-69. Spec. consult, Fed. Security Agency & U.S. Pub. Health Serv; consult. sociologist, Bd. Ed, Conn, 64-66, consult, Bd. Ed, Phila, 66-67; Roosevelt, Long Island, 66-67. Ed, Phylon, 47-58. Assoc. dir, Ga. Cmt. Interracial Coop. Sociol. Asn. Community studies; social psychology; social structure of the contemporary community. Publ: Changing concept of race, Brit. J. Soc. Biol; Some early notes of Robert E. Park, Phylon; Nature and meaning of prejudice and discrimination, J. Higher Ed. Address: 110 Bleecker Street, New York, N.Y. 10012.

HILL, PROF. NORMAN L(EWELLYN), b. Afton, N.Y, Dec. 17, 95; m. 22; c. 2. POLITICAL SCIENCE. A.B, Oberlin Col, 17, A.M, 20; Paris, 19; Carnegie Endowment fel, Wisconsin, 23-24, Ph.D, 24. Instr, Western Reserve, 24-26; asst. prof. POLIT. SCI, NEBRASKA, 26-27, assoc. prof, 27-35, prof, 35-63, EMER. PROF, 63- Vis. prof, Washington (Seattle), 55; Fulbright prof, Wales, 58-59; vis. prof, Tennessee, 63-64, 67-; Berea Col, 65-66. Distinguished teaching award, Nebraska, 60. Polit. Sci. Asn; Soc. Int. Law; fel. Int. Inst. Arts & Letters. Background of European governments; claims to territory in international law and relations. Publ: If the churches want world peace; International politics, Harper, 63; Mr. Secretary of State, Random, 63. Address: 232 Jackson St, Berea, Ky. 40403.

HILL, DR. PAUL L(EROY), b. Wayne, Ohio, June 28, 05; m. 29, 54; c. 1. CLINICAL PSYCHOLOGY. A.B, Ohio State, 30, M.A, 31; U.S. Pub. Health Serv. fel. & Ph.D.(clin. psychol), Northwestern, 53. Soc. worker, Family Serv. Orgn, Louisville, Ky, 31-32; psychologist, Louisville & Jefferson County Children's Home, 32-41; asst, Ohio State, 41-42; instr. & dir. counseling center, Illinois, 42-43; dir. dept. ed. counsel, PUB. SCHS, Winnetka, Ill, 43-54; asst. supt, Clifton, N.J, 54-56; PSYCHOLOGIST, MILLBURN, N.J,

56- Lectr, Northwestern, 44-54. Dipl, Am. Bd. Exam. Prfnl. Psychol, 53. Psychol. Asn. Personality evaluation of children. Address: 18 Gavin Rd, West Orange, N.J. 07052.

HILL, PROF. RANDALL C(ONRAD), b. Marquette, Nebr, Sept. 30, 01; m. 25; c. 2. SOCIOLOGY. B.S, Kansas State, 24, M.S, 27; Ph.D, Missouri, 29. Assoc. prof. SOCIOL, KANSAS STATE, 29-35, PROF, 35- Adv, Col. Agr, India, 56-58; summer vis. prof, Utah State, 59. Sociol. Asn; Rural Sociol. Soc.(secy-treas, 48-51). Social, economic and housemaking factors in farm living; population; rural sociology. Address: Dept. of Sociology & Anthropology, Kansas State University, Manhattan, Kans. 66502.

HILL, PROF. RAYMOND THOMAS, b. Appleton City, Mo; m. 47; c. 2. GEOGRAPHY. B.S, Southeast Mo. State Col, 43; M.A, George Peabody Col, 47. ASSOC. PROF. soc. sci, Ky. Wesleyan Col, 47-51; GEOG, CONCORD COL, 51- Nat. Coun. Geog. Ed; Asn. Am. Geog. Latin American geography; geography of Africa and Appalachia. Address: Box 247, Athens, W.Va. 24712.

HILL, PROF. REUBEN L(ORENZO), b. Logan, Utah, July 4, 12; m. 35; c. 5. SOCIOLOGY. B.S, Utah State, 35; Ph.M, Wisconsin, 36, Ph.D.(sociol), 38. Instr. soc. ed, Wisconsin, 38-40, asst. prof, 41-42, lectr. sociol, 38-42; prof. & head sociol. & soc. work, South Dakota, 42-44; assoc. prof. sociol. & home mgt, Iowa State, 44-49; res. prof. & prof, North Carolina, 49-53, 55-57; vis. prof. & dir. family res, P.R, 53-54; prof. sociol. & dir. family study center, Minnesota, Minneapolis, 57-64; prog. assoc. pop, Ford Found, N.Y, 64-66; PROF. SOCIOL. & DIR. FAMILY STUDY CENTER, MINNESOTA, MINNEAPOLIS, 66- Vis. Fulbright prof, Louvain, 61-62. Asst. ed, Am. Sociol. Rev, 51-54. Mem, behav. sci. cmt, Nat. Acad. Sci, 66; adv. cmt. pop, Nat. Inst. Child Health & Develop, 67; rev. sect. soc. probs, Nat. Inst. Ment. Health, 67-72. Ernest W. Burgess award, distinguished family res, 63. Fel. Int. Union Sci. Study of Pop; Pop. Asn; fel. Sociol. Asn; fel. Soc. Res. Child Develop. Sociology of family crises; family contexts of personality development; family as a problem-solving and action group. Publ: Families under stress: Being married; co-auth, Family and population control. Address: 4650 Fremont Ave. S, Minneapolis, Minn. 55409.

HILL, PROF. RICHARD J(OHNSON), b. New York, N.Y, Sept. 9, 25; m. 47; c. 2. SOCIOLOGY. A.B, Stanford, 50, M.A, 51; Ph.D.(sociol), Washington (Seattle), 55. Asst, pub. opinion lab, Washington (Seattle), 51-53, instr. sociol. & res. asst. prof. & dir, basic nursing res. proj, sch. nursing, 53-55; mem. labs. staff, Bell Tel. Labs, N.Y, 55-56; asst. prof. sociol, California, Los Angeles, 56-60; assoc. prof. sociol. & dir. statist. lab, Texas, 60-65; PROF. SOCIOL, PURDUE, 65- Consult, pub. opinion lab, Washington (Seattle), 55-59; sch. nursing, California, Los Angeles, 58-60; adoption res. proj, Whittier Col, 59-60; Tex. League Nursing, 61- Mem. rev. panel sociol. & soc. psychol, Nat. Sci. Found, 66-; adv. panel small grants, Nat. Inst. Ment. Health, 67- U.S.M.C, 42-46. AAAS; Sociol. Asn; Statist. Asn; Psychomet. Soc; Acad. Polit. & Soc. Sci. Research methods; social attitudes; mass communication. Publ: Co-auth, Public leadership; auth, Lecture and discussion methods; co-auth, Sociological measurement, Chandler Pub, 67. Address: Dept. of Sociology, Purdue University, Lafayette, Ind. 47907.

HILL, RICHARD W, JR, Econ, see 10th ed, Soc. & Behav. Vols.

HILL, DR. ROBERT EDMUND, JR, b. Cedar Rapids, Iowa, May 26, 22; m. 44; c. 2. EDUCATIONAL MEASUREMENT, STATISTICS. B.A, Cornell Col, 47; M.A, Iowa, 53, Ph.D, 56. Teacher, high schs, Iowa, 47-52, adminstr, 52-54; prof. psychol, BALL STATE, 56-68, CHMN. DEPT. GEN. & EXP. PSYCHOL, 68- Res. assoc, U.S. Off. Ed. grant, 64-66; dir, adv. ed. res. inst, summer 66. U.S.A.F, 42-46, Res, 46-53, 1st Lt. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Measurement in education and psychology; statistical research; educational psychology. Publ: Investigation of the educational development of selected Iowa secondary school pupils from varied elementary school environments; Dichotomous prediction of student teaching excellence employing selected CPI scales, J. Ed. Res; Scholastic success of college freshmen from parochial and secondary schools, Sch. Rev. Address: Dept. of General & Experimental Psychology, Ball State University, Muncie, Ind. 47306.

HILL, PRES. ROBERT E(UGENE), b. Kincaid, Ill, Dec. 9, 25; m. 50; c. 1. ECONOMICS, FINANCE. B.A, Ill. Wesleyan, 54; M.B.A, Indiana, 55; Ph.D. (commerce, bus. admin), Alabama, 57. Asst. prof. finance, Illinois, 57-60, chmn. grad. sch. bus. admin, 59; assoc. prof. econ, dir. grad. studies bus. admin. & dean col. bus. admin, Kent State, 60-65; prof. econ. & dean sch. bus, Southern Illinois, 65-66; PROF. BUS. & PRES, CHICO STATE COL, 66-Summers, Econ-in-Action fel, Case, 58; Found. Econ. Ed. fel, N.Y. Life Ins. Co, 58. Mem. int. progs. cmt, Asn. State Cols. & Univs, 66-; pres. coun, Am. Inst. Mgt, 67- U.S.A, 51-54, Sgt. Econ. Asn; Finance Asn; Planning Asn. International economic accounting methodologies; international markets for money and capital; socio-economic aspects of private and public investment; international market structures. Publ: Economic developments in Europe, Ill. Bus. Rev; Rising costs of public welfare, Current Hist; Education in an industrializing society. Address: Chico State College, Chico, Calif. 95926.

HILL, PROF. ROBERT LELAND, b. Coffeyville, Kans, July 12, 22. ECONOMICS. B.A, Univ. Kansas City, 49, M.A, 51; Ph.D, Georgetown, 58. Economist, bd. governors, Fed. Reserve System, 55-59; sr. assoc, Cresap, McCormick & Paget, N.Y, 59-61; economist, dept. planning staff, U.S. Dept. Commerce, 61-62, dir. off. emergency planning, 62-65; PROF. ECON. & CHMN. DEPT, LYNCHBURG COL, 65-, DIR. INST. RES, 67-, dir. res, 66-68. U.S.A, 43-45. Econ. Asn. Money, credit and banking; cost and decision theories; business conditions and forecasting. Publ: Role of rigidity in the failure of the gold standard, Weltwirtschaftliches; Survey of common trust funds, 1955, Fed. Reserve Bull. Address: Dept. of Economics, Lynchburg College, Lynchburg, Va. 24504.

HILL, DR. RONALD THOMAS, b. Yonkers, N.Y, Aug. 27, 25; m. 46; c. 5. PSYCHOLOGY, PHARMACOLOGY. A.B, Columbia, 49, M.A, 61, Ph.D.(psychol), 67. Res. asst. pharmacol, Lederle Labs, Am. Cyanamid Co, 49-59; GROUP LEADER PSYCHOPHARMACOL, GEIGY RES. LABS, 60- U.S.N, 43-45. Psychol. Asn; Psychonomic Soc; Behav. Pharmacol. Soc. Behavioral psychology; psychopharmacology; analgesia and drug dependence; central nervous system stimulants; statistical design and analysis. Address: Geigy Research Labs, Ardsley, N.Y. 10502.

HILL, DR. SAMUEL E(RVIN), b. New Rochelle, N.Y, Aug. 23, 13; m. 39; c. 4. ECONOMICS. B.A, Ohio Wesleyan, 35; M.A, Harvard, 38, Ph.D, 40. Asst. econ, Am. Fedn. Labor, 40-41; economist, U.S. Govt, 41-53; res. assoc. indust. rels, Princeton, 56-64; CONSULT. ECONOMIST, 64- Econ. Asn; Indust. Rels. Res. Asn. Collective bargaining; utilization of manpower; shifts in the composition of the labor force by occupation; employment problems of members of minority groups. Publ: Teamsters and transportation; co-auth, Manpower and innovation in American industry; co-auth, Toward fair employment, Columbia, 64. Address: R.F.D, 1, West Redding, Conn. 06896.

HILL, PROF. SAMUEL S(MITH), b. Wernersville, Pa, July 6, 00; m. 28; c. 3. ECONOMICS. A.B, Yale, 23; M.B.A, N.Y. Univ, 39. Cost res. analyst, Interstate Commerce Cmn, 40-45; mem. faculty, INDUST. COL. ARMED FORCES, 45-60, ASSOC. PROF. ECON, 60- Econ. Asn; Indust. Rel. Res. Asn. Address: 3000 39th St. N.W, Washington, D.C. 20016.

HILL, DR. WARREN THOMAS, b. Cleveland, Ohio, Apr. 9, 26. COUNSELING PSYCHOLOGY. B.S, Mass. Inst. Tech, 50; Ph.D, Boston, 59. Counsr. psychol, PITTSBURGH, 59-63, DIR. COUNSELING CENTER, 63- Psychol. Asn. Personality; personality theory; counseling and psychotherapy. Publ: A long look at the new look in sex, Danforth Found, 67; Cultural dehumanization and campus discontent, Explorations Mag, 65; Identity and integrity on the urban campus, (in prep). Address: Counseling Center, University of Pittsburgh, Pittsburgh, Pa. 15213.

HILL, PROF. W(ILLARD) W(ILLIAMS), b. San Francisco, Calif, Apr. 6, 02; m. 28; c. 1. ANTHROPOLOGY. A.B, California, 29; fel, Yale, 33-34, Ph.D. (anthrop), 34. Nat. Res. Coun. fel, Yale, 34-35; dir. field parties, soil conserv. serv, U.S. Dept. Agr, 35-37; asst. prof. ANTHROP, NEW MEXICO, 37-39, assoc. prof, 40-45, PROF, 45-, CHMN. DEPT, 47-, dir. Navy V-12 Prog, 40-45. Fel. Anthrop. Asn; fel. Ethnol. Soc; Soc. Archaeol; Soc. Appl. Anthrop. Acculturation; ethnology of Santa Clara Pueblo. Publ: Agricultural and hunting methods of the Navaho Indians. Address: Dept. of Anthropology, University of New Mexico, Albuquerque, N.Mex. 87106.

HILL, DR. W(ILLIAM) F(AWCETT), b. Toronto, Ont, Aug. 20, 18; nat; m. 53; c. 1. PSYCHOLOGY. B.A, British Columbia, 48, M.A, 50; Ph.D.(psychol, human develop), Chicago, 55. From sr. clin. psychologist to chief psychologist, Utah State Hosp, 54-61; head dept. psychol, Idaho State Col, 61; PROJ. DIR. YOUTH STUDIES CENTER & VIS. PROF. PSYCHOL, SOUTHERN CALIFORNIA, 61- Clin. instr, sch. med. & dept. nursing & mem. clin. training cmt, Utah, 59-61. R.C.A.F, 41-46, Flying Officer. AAAS: Psychol. Asn; Soc. Psychol. Study Social Issues. Group psychotherapy. Address: 1126 19th St, Hermosa Beach, Calif. 90254.

HILL, W(ILLIAM) HOBART, b. Chicago, Ill, Nov. 19, 96; m. 19; c. 2. HUMAN RELATIONS. A.B, Oberlin Col, 19; M.A, Boston, 28, M.R.E, 30; hon. L.H.D, Salem Col, 53. Dir. relig. ed, Congregational Church, Mass, 28-30; assoc. prof. philos. & relig, Oklahoma City, 30-35; boy scout exec, Okla, Tex, & La, 36-49; prof. human rels, MO. VALLEY COL, 49-67, res. adminstr, AM. HUMANICS FOUND, 49-67, CONSULT, 67- U.S.A, 18-19, 2nd Lt. Sociol. Asn; Adult Ed. Asn. Address: 1343 S. English St, Marshall, Mo. 65340.

HILL, DR. WILLIAM PAUL, b. Farmville, N.C, Jan. 1, 25; m. 52; c. 1. CLINICAL & PERSONNEL PSYCHOLOGY. A.B, Hopkins, 49; M.S, Miami (Fla), 51; fel, Fla. State, 54-55, Ph.D.(exp. & theoret. psychol), 57. Res. psychologist, U.S. Air Force Training & Res. Center, MacDill Air Force Base, 51-54; clin. psychologist, S.Fla. State Hosp, 57-58; clin. psychologist, psychiat. outpatient clin, Jackson Mem. Hosp. & instr. clin. psychol, med. sch, Miami (Fla), 58-59; chief clin. psychologist, Fla. Alcoholic Rehab. Center, 59-65; private practice, 65- U.S.A.A.F, 43-45. AAAS; Soc. Clin. Hypnosis; Psychol. Asn; Nat. Coun. Family Rels; Acad. Polit. Sci. Forms design and analysis; learning; group dynamics; test theory and development; theory of psychological development; psychological research methods. Address: Studio 9, 275 W. Magnolia Ave, Merritt Island, Fla. 32952.

HILL, DR. WINFRED F(ARRINGTON), b. Chelsea, Mass, May 23, 29; m. 57; c. 2. PSYCHOLOGY. A.B, Yale, 50; M.A, Northwestern, 51; Ph.D, Stanford, 54. Instr, Harvard, 56-57; asst. prof. PSYCHOL, NORTHWESTERN, 57-62, ASSOC. PROF, 62- Fel, Center Adv. Study Behav. Sci, Stanford, 66-67. Res. consult, Vet. Admin. Hosp, Downey, Ill, 63- U.S.A, 54-56, Res, 56- Psychol. Asn; Psychonomic Soc. Experimental psychology of learning and motivation. Publ: Learning: a survey of psychological interpretations, Chandler, 63; Activity as an autonomous drive, J. Comp. Physiol. Psychol; Learning theory and the acquisition of values, Psychol. Rev. Address: Dept. of Psychology, Northwestern University, Evanston, Ill. 60201.

HILLABOLD, DR. A(RTHUR) B(URNS), b. Pueblo, Colo, May 28, 21; m. 44; c. 1. ECONOMICS. B.A, Oregon, 44; M.A, Stanford, 50, Ph.D.(econ), 65. Instr. econ, Tulane, 52; economist & commodity futures analyst, commodity exchange authority, U.S. Dept. Agr, 52-55; from instr. to asst. prof. ECON, Idaho State, 55-63, assoc. prof. & chmn. dept, 63-67; ASSOC. PROF, SASKATCHEWAN, REGINA, 67- Econ. Asn. Economic development; international trade; monetary theory. Publ: Competitive prices and the futures market. Address: 2680 Regina Ave, Regina, Sask, Can.

HILLAM, DR. RAY C, b. Carlin, Nev, July 25, 28; m. 56; c. 4. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Utah, 55; M.A, George Washington, 58; Ph.D.(int. rels), American Univ, 64. Intel. analyst, U.S. Govt, 55-58; instr. POLIT. SCI, BRIGHAM YOUNG, 60-63, asst. prof, 63-65, ASSOC. PROF, 65-, COORDINATOR INT. RELS. PROG, 64- Consult, U.S. Navy, 61-63; Gen. Res. Corp, 67- Fulbright-Hayes prof. award, Vietnam, 66-67. U.S.A.R, 51-59. Polit. Sci. Asn; Int. Studies Asn. Communist insurgency and counterinsurgency in developing societies, especially in Asia. Publ: Counterinsurgency lessons from the early Chinese and Japanese

experience, Orbis, 68; Vietnam: a different war, Proc. Utah Acad, fall 67; Vietnam war: a new alternative, Dialogue, winter 67. Address: Dept. of Political Science, 374B Maeser Bldg, Brigham Young University, Provo, Utah 84601.

HILLE, DR. STANLEY J, b. New London, Minn, Mar. 19, 37; m. 64; c. 1. BUSINESS ADMINISTRATION. B.B.A, Minnesota, 59, M.B.A, 62, Great North. Rwy. Found. fel, 64, Ph.D.(bus), 66. Teaching asst. transportation, Minnesota, 59-61, student adviser bus. admin, 61-63, instr. & teaching assoc. transportation, 63-65; ASST. PROF. BUS. ADMIN, MARYLAND, 65- Norfolk & West. Rwy res. fel, 67-68. Excellence in teaching award, Maryland, 67. Nat. Guard, S/Sgt. Consumer attitudes toward urban public transportation; organizational change in transportation companies due to growth and technology; innovations in logistics. Publ: Co-auth, User determined attributes of ideal transportation, 66 & Consumer conceived attributes of transportation, 67, Univ. Maryland; auth, Marketing and its organization in railroads, Transportation J, 66. Address: Dept. of Business Administration, University of Maryland, College Park, Md. 20740.

HILLER, PROF. E(RNEST) T(HEODORE), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 66.

HILLERY, DR. GEORGE A(NTHONY), JR, b. Abita Springs, La, May 21, 27; m. 47; c. 3. SOCIOLOGY. B.A, La. State, 49, M.A, 51, Ph.D.(sociol), 54. Asst. prof. sociol, Atlanta Div, Georgia, 54-55; Col. of William & Mary, 55-58; George Washington, 58-59; fel, Florida, 59-60; asst. prof. sociol. & rural sociol, Kentucky, 60-63, ASSOC. PROF. SOCIOL, 63-68; IOWA, 68- Vis. asst. prof, La. State, 57 & 59; vis. scientist, Am. Sociol. Asn, 63-66; Nat. Sci. Found. vis. prof, East Carolina, 67. U.S.A, 45-47. Sociol. Asn; Rural Sociol. Soc; Pop. Asn; Anthrop. Asn; Soc. Study Social Probs. Community; demography; social anthropology. Publ: Communal organizations, Univ. Chicago, 68; Definitions of community: areas of agreement, Rural Sociol; The Negro in New Orleans, Am. Sociol. Rev. Address: Dept. of Sociology, University of Iowa, Iowa City, Iowa 52240.

HILLHOUSE, PROF. A(LBERT) M(ILLER), b. Waynesboro, Ga, Dec. 8, 02; m. 37; c. 2. PUBLIC ADMINISTRATION. A.B, Davidson Col, 24; J.D, N.Y. Univ, 30; M.A, North Carolina, 31; Ph.D.(econ), Northwestern, 38. Prof. econ. & bus, Davidson Col, 38-40; assoc. prof. pub. finance, Cincinnati, 40-52; PROF. PUB. ADMIN, GRAD. SCH. BUS. & PUB. ADMIN, CORNELL, 52- Soc. Pub. Admin; Econ. Asn. Federal fiscal management; municipal finance; governmental accounting. Publ: Co-auth, State capital budgeting, Coun. State Govt, 63; Municipal bonds, a century of experience; co-auth, Where cities get their money. Address: Malott Hall, Cornell University, Ithaca, N.Y. 14850.

HILLIER, DR. FREDERICK S(TANTON), Indust. Eng, Opers. Res, see 11th ed, Phys. & Biol. Vols.

HILLING, PROF. HELEN CLARK, b. Ripley, Ohio, Apr. 29, 11; m. 33; c. 1. PUBLIC ADMINISTRATION. A.B, Indiana, 32; M.S.W, Tulane, 46; Nat. Insts. Health fel, Pittsburgh, 47-49, cert. psychiat. soc. work, 49; Ph.D.(pub. admin), N.Y. Univ, 61. Dist. dir. soc. welfare & supt. civil works admin, Fla. State Dept. Soc. Welfare, 34-47; asst. prof. psychiat. soc. work, sch. soc. work, Tulane, 48-50; asst. prof. soc. work, sch. med, Arkansas, 52-56; prog. dir, Rockwin Fund, 56-57; researcher, study of rural med. care, Rockefeller Brothers Fund, 57-59; lectr. soc. work & admin, N.Y. UNIV, 59-61, assoc. prof. PUB. ADMIN, 61-62, PROF, 62- Econ. Asn; Pub. Health Asn; Pub. Welfare Asn. Curriculum in medical administration; research in social welfare and medical administration. Publ: Public administration: study, practice, profession, Am. J. Pub. Admin, 66. Address: Graduate School of Public Administration, New York University, 4 Washington Square, New York, N.Y. 10003.

HILLIS, DR. JAMES W(ILLIAM), b. Aurora, Nebr, Jan. 20, 30; m. 60; c. 2. SPEECH PATHOLOGY, AUDIOLOGY. B.S, Nebraska, 52; M.A, Maryland, 57; Ph.D.(speech, hearing sci), Ohio State, 63. Instr. speech & hearing sci, Maryland, 56-57; speech path. & audiol, Mich. State, 60-63, asst. prof, 63-65; ASSOC. PROF. SPEECH PATH. & AUDIOL. GEORGE WASHINGTON & CONSULT, SCH. MED, 65-, DIR. SPEECH & HEARING CLIN, 68- U.S.N, 52-54, Lt.(jg). Speech & Hearing Asn. Acoustic phonetics. Publ: Co-auth, A program for hearing testing of young children, Ohio's Health, 3/60, Audiometric procedures used with children, J. Speech & Hearing Disorders, 2/61 & Rehabilitation of the stroke patient, Postgrad. Med, 10/67. Address: Dept. of Speech Pathology & Audiology, George Washington University, Washington, D.C. 20006.

HILLIX, PROF. WILLIAM ALLEN, b. Dearborn, Mo, Mar. 19, 27; m. 47, 60; c. 6. PSYCHOLOGY. B.A, Missouri, 48, M.A, 54, Ph.D.(psychol), 58. U.S. Pub. Health Serv. fel, 58-59; res. psychologist, U.S. Navy Electronics Lab, 59-63; from asst to assoc. prof. PSYCHOL, San Diego State Col, 63-67; PROF. & CHMN. DEPT, MISSOURI, KANSAS CITY, 67- U.S.N, 45-46. AAAS; Psychol. Asn. Mechanisms of reinforcement; systematic psychology; automatic speech recognition; rehearsal in learning; detection theory. Publ: Co-auth, Systems and theories in psychology, McGraw, 63; auth, Visual pattern identification as a function of fill and distortion, J. Exp. Psychol, 60; co-auth, Computer recognition of spoken digits based on six nonacoustic measures, J. Acoustic Soc. Am, 65. Address: Dept. of Psychology, University of Missouri at Kansas City, 5319 Holmes, Kansas City, Mo. 64110.

HILLMAN, PROF. ARTHUR, b. Nevada City, Calif, June 26, 09. SOCIOLOGY. A.B. Washington (Seattle), 31, fel, 32-35, A.M, 34; Henderson fel, Chicago, 37-38, Ph.D, 40. Asst, Washington (Seattle), 32-35; Chicago & Nat. Resources Cmt, 35-37; asst. prof. sociol, Bucknell, 36; from instr. to asst. prof. SOCIOL, Cent. YMCA Col, 38-45; assoc. prof, ROOSEVELT, 45-48, PROF, 48-, chmn. dept, 46-55, 61-64, dean arts & sci, 55-60; DIR. TRAINING CENTER, NAT. FEDN. SETTLEMENTS & NEIGHBORHOOD CENTERS, 60- Fulbright res. scholar, Oslo, 50; lectr, Stockholm, 50. Mem. staff, Welfare Coun. Metrop. Chicago, 45-46; mem. staff, Fed. Security Agency & asst. regional dir, Off. Community War Serv, 43-45; mem. bd, Coun. Soc. Work Ed, 64-67. Sociol. Asn; Soc. Study Social Probs. Publ: Community organization and planning; Norway's families; Neighborhood centers today. Address: 5901 N. Sheridan Rd, Apt. 9K, Chicago, Ill. 60626.

HILLMAN, PROF. CHRISTINE H, b. Ky, Aug. 30, 08; m. 40; c. 1. EUTHENICS. B.S, Western Reserve, 40, M.S, 42, Ph.D.(euthenics), 52. Dir. home mgt. projs, Cleveland City Welfare, Ohio, 40-41; dist. home mgt. supvr, Farm Security Admin, 41-42; prof. home mgt. & family relationships, Western Reserve, 42-52; prof. family life, Ohio State & family life res, Ohio Exp. Sta, 52-65; VIS. PROF. FAMILY LIFE, Pa. State, 65-66; MARYLAND, 67- Prof, nat. agr. exten. center adv. study, Wisconsin, 58-59. Nat. Coun. Family Rels.(secy, 67); Sociol. Asn; Rural Sociol. Asn; Soc. Res. Child Develop; Home Econ. Asn.(res. consult, 65-). Family life; home management; economics education. Publ: Factors influencing the lives of young farm families, Res. Bull. Ohio Agr. Exp. Sta; Areas of need of young rural homemakers, J. Home Econ; Advice column's challenge for family-life education, J. Marriage & Family Living. Address: 12 Bosworth Rd, Framingham, Mass. 01701.

HILLMAN, PROF. JIMMYE STANDARD, b. McLain, Miss, Mar. 1, 23; m. 47; c. 3. AGRICULTURAL & INTERNATIONAL ECONOMICS. B.S, Miss. State Col, 42; M.S, Agr. & Mech. Col, Tex, 46; Guadalajara, 48; Rockefeller fel, California, 48-50, Ph.D, 54. Asst. prof. AGR. ECON, Miss. State Col, 46-50; ARIZONA, 50, assoc. prof, 54-59, PROF, 59-, HEAD DEPT, 61- Agr. economist, Int. Coop. Admin, Brazil, 55-57; exec. dir, President's Nat. Adv. Cmn. Food & Fiber, 66-67. Consult, U.S. Dept. Agr, 54; Orgn. Am. States, 56, 60; U.S. Agency Int. Develop, 62; agr. rep, West. Regional Manpower Adv. Cmt. U.S.A, 42-45, 1st Lt. Agricultural policy. Publ: Agricultural development in less advanced countries; Interregional competition in the western lettuce industry; co-auth, Agriculture and international trade, Food & Fiber for Future, Tech. Report 6, 67. Address: Dept. of Agricultural Economics, University of Arizona, Tucson, Ariz. 85721.

HILLMANN, BEVERLY MARIE, Psychol, see 10th ed, Soc. & Behav. Vols.

HILLMER, DR. MAX L(ORRAINE), JR, b. Detroit, Mich, May 30, 19; m. 62; c. 2. PSYCHOLOGY. B.S, Northwestern, 42; M.S, Washington (Seattle), 58, Ph.D.(psychol), 60. Res. instr. & prog. dir. faculty res. training prog, sch. nursing, Washington (Seattle), 60-61; ASST. PROF. PSYCHOL, Ill. State Norm. Univ, 62; Waterloo Lutheran, 62-63; HEIDELBERG COL, 63- A.U.S, 42-46. Psychol. Asn. Address: Dept. of Psychology, Heidelberg College, Tiffin, Ohio 44883.

HILLS, DR. BARBARA B(EHRENS), b. Oelwein, Iowa, July 4, 33; m. 58; c. 3. PSYCHOLOGY. B.A, Iowa, 55, M.A, 59, Ph.D, 60. Head consr, Commons Dormitory, Univ. Iowa, 55-57; trainee PSYCHOL, Vet. Admin. Hosp, Iowa City, 57-60; instr, SALEM COL.(N.C), 60-64, asst. prof, 64-68, ASSOC. PROF, 68-; CHIEF PSYCHOLOGIST. FORSYTH CO. CHILD GUID. CLIN, 66-, res. asst, 60-66. Psychol. consult, day care div, Asn. Family & Child Serv. Agency, 66- Psychol. Asn. Motivation; verbal conditioning; psychopathology; psychodiagnostics; psychotherapy; early infantile autism. Publ: Co-auth, Test of tendency to analyze for use with college men. Address: Dept. of Psychology, Salem College, Winston-Salem, N.C. 27108.

HILLS, DR. DAVID ALLEN, b. Kansas City, Mo, May 24, 31; m. 58; c. 1. PSYCHOLOGY. A.B, Kansas, 53; M.A, Iowa, 59, Ph.D, 60. Asst. psychol, Iowa, 56-58; clin. asst. psychomet. & psychopath, psychopathic hosp, 58-59; trainee psychol, Vet. Admin. Hosp, Iowa City, 59-60; asst. prof. PSYCHOL, WAKE FOREST, 60-66, ASSOC. PROF, 66-, DIR. CENTER PSYCHOL. SERV, 66-, asst. dir, 60-61, assoc. dir, 61-66. Instr, grad. training center, West. Elec. Co, 61; assoc. prof, Nat. Defense Ed. Act Inst, Stanford, summer 66. U.S.A, 53-55. Psychol. Asn. Psychotherapy; experimental approaches to personality. Publ: Analytic tendency as a factor in the performance of women on the Iowa Pursuitmeter; co-auth, Effects of test information upon self-evaluation in brief educational-vocational counseling, J. Counseling Psychol, 65. Address: Dept. of Psychology, Box 7775, Wake Forest University, Winston-Salem, N.C. 27109.

HILLS, PROF. JOHN R(OY), b. Dayton, Ohio, Nov. 1, 27; m. 50. PSYCHOLOGY. B.A, Southern California, 50, M.A, 51, scholar & Ph.D.(psychol), 55. Asst. psychol, Psychol. Res. Center, Calif, 51; Southern California, 52-54; res. assoc, Ed. Testing Serv, N.J, 54-58, exec. asst. to v.pres. for res, 55-56; dir. testing & guid, Bd. Regents Univ. Syst, Ga, 58-66; PROF. ED. RES. & TESTING, FLA. STATE, 66- Lectr, Ga. State Col, 65; exam. aptitude testing, Col. Entrance Exam. Bd, 65- Mem. cmn, Am. Coun. Ed, 60-62; cmt. test utilization, Nat. Coun. Measurement in Ed, 61-, mem. chmn, 66. U.S.A, 46-47. Fel. Psychol. Asn; Personnel & Guid. Asn; Psychomet. Soc; Nat. Coun. Measurement in Ed; Col. Personnel Asn. Measurement theory and applications; college admissions; measurement of personality. Publ: Co-auth, Counselor's guide to Georgia colleges, Regents. Univ. Syst, Ga, rev. ed, 65; Nine critical questions about college admissions, Personnel & Guid. J, 67; auth, Use of measurement in selection and placement, In: Educational measurement, Ace Books, 2nd ed, 68. Address: Dept. of Educational Research & Testing, Florida State University College of Education, Tallahassee, Fla. 32306.

HILLS, DR. STUART LEE, b. Orange, N.J, Aug. 18, 32; m. 56; c. 3. SOCIOLOGY. B.A, Col. Wooster, 55; M.A, Indiana, 58, fel, 60, Ph.D.(sociol), 64. Teaching assoc. SOCIOL, Indiana, 60-61; asst. prof, Central Michigan, 61-62; MUSKINGUM COL, 62-66, ASSOC. PROF, 67-, CHMN. DEPT, 64- Nat. Sci. Found. Summer Inst. Col. Teachers, 66; Hill Family Found. fel, Summer Inst. Urban Sociol, 67. Sociol. Asn; Soc. Study Soc. Probs. Intergroup relations; community; stratification; criminology. Publ: Siege of a village, Nat. Civic Rev, 2/67; Whither the local community in American society?, Sociol. Quart, winter 68; Organized crime and American society, Midwest Quart, winter 68. Address: Dept. of Sociology, Muskingum College, New Concord, Ohio 43762.

HILLS, PROF. THEODORE LEWIS, Geog, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HILLSON, PROF. JOSEPH S(TANLEY), b. Somerville, Mass, May 19, 27; m. 51; c. 4. CLINICAL & EDUCATIONAL PSYCHOLOGY. B.A, Bridgeport, 49; M.A, Columbia, 51; fel, Texas, 54-55, Ph.D.(psychol), 55. Intern psychol, Norwich State Hosp, Conn, 52-53; res. clin. psychol, med. br, Texas, 53-54; ASSOC. PROF. PSYCHOL, WAYNE STATE COL,

55- Clin. psychologist, Norfolk State Hosp, 55-59, chief clin. psychologist, 59- Psychol. Asn; Soc. Proj. Tech. Behavioral correlates of psychological test data; development of self awareness and self-concept; parent child interactions. Publ: Attitudes toward mental hospitals, J. Clin. Psychol; Concepts of self, ideal and others in normals, neurotics and schizophrenics, J. Consult. Psychol; Field trip as a supplement to teaching: experimental study, J. Ed. Res. Address: Dept. of Psychology, Wayne State College, Wayne, Nebr. 68787.

HILLYARD, PROF. LAWRENCE R(OBERTSON), Indust. Eng, see 11th ed, Phys. & Biol. Vols.

HILMAR, DR. NORMAN A(XEL), b. Philadelphia, Pa, July 6, 21; m. 45; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Colorado, 49; Ph.D, Cornell, 55. Res. analyst pub. opinion, U.S. Dept. Defense, 52-53; soc. psychologist, Off. Surgeon Gen, U.S. Dept. Army, 55-57, Walter Reed Army Inst. Res, 57-60; SCIENTIST, U.S. PUB. HEALTH SERV, 60- U.S.A, 42-45, 51-60; U.S.P.H.S, 60-, Scientist. Fel. Sociol. Asn; Pub. Health Asn. Public opinion; manpower utilization; medical and military sociology; moral problems in public administration; family planning and fertility control; health planning. Publ: Co-auth, Military Sociology, Col. Park: Soc. Sci, 65; auth, Medical impairments and military effectiveness, U.S. Armed Forces Med. J; Anonymity, confidentiality, and invasions of privacy: the responsibility of the researcher, J. Am. Pub. Health Asn, 68. Address: 4518 Bestor Dr, Rockville, Md. 20853.

HILSMAN, PROF. ROGER, b. Waco, Tex, Nov. 23, 19; m. 46; c. 4. POLITICAL SCIENCE. B.A, U.S. Mil. Acad, 43; M.A, Yale, 50, Ph.D, 51. Res. fel. center int. studies, Princeton, 53-54, res. asst, 54-55; res. assoc. & lectr, Woodrow Wilson Sch. Pub. & Int. Affairs, 55-56; chief for. affairs div, legis. reference serv, Library Cong, 56-58, dep. dir. res, 58-61; dir. bur. intel. & res, U.S. Dept. State, 61-63; asst. secy. state, Far East. Affairs, 63-64; PROF. GOVT, COLUMBIA, 64- Res. assoc. Washington Center For. Policy Res. & lectr. int. affairs, sch. adv. int. studies, Hopkins, 57-61; lectr, Columbia, 58; Nat. War Col; Army War Col, Indust. Col. Armed Forces. Am. Polit. Sci. Asn. Publ: Strategic intelligence and national decisions, 56; co-auth, Military policy and national security, 56 & To move a nation, 67. Address: 448 Riverside Dr, New York, N.Y. 10025.

HILTNER, DR. JOHN, JR, b. Waverly, Iowa, Jan. 25, 33; m. 59; c. 2. GEOGRAPHY. B.A. & M.A, Iowa, 54; scholar, Northwestern, 55, fel, 57, Ph.D, 58. Teacher Eng, Robert Col, Istanbul, 56-57; instr. GEOG, BOWLING GREEN STATE, 58-61, asst. prof, 61-65, ASSOC. PROF, 65- Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed; Mid. East Studies Asn. Middle Eastern area research; urban geography in United States. Publ: Analysis of agricultural mechanization in the Chukurova, Turkey, Trans. Ill. Acad. Sci; Land accumulation in the Turkish Qukurova, J. Farm Econ; Distribution of manufacturing in Turkey, J. Geog, 63. Address: Dept. of Geography, Bowling Green State University, Bowling Green, Ohio 43402.

HILTON, DR. ANDREW CARSON, b. D'Lo, Miss, Nov. 20, 28; m. 55. PSYCHOLOGY. B.A, Maryland, 53; M.A, George Washington, 53; Ph.D, Western Reserve, 55. Asst. personnel studies, Psychol. Res. Assocs, Wash, D.C, 53; personnel consult, Personnel Res. Inst, Ohio, 54-55; Ernst & Ernst, 55-56; consult. exec. selection syst. design, Psychol. Corp, N.Y, 56-58; dir. personnel rel, Raytheon Co, Mass, 58-59; dir. personnel, Int. Tel. & Tel. Corp, 59-63; V.PRES. ADMIN, COLT INDUSTS. INC, 63- Spec. asst. to dir, Off. Econ. Opportunity, 65-66. U.S.A.F, 46-49, Sgt. Psychol. Asn; Psychomet. Soc; N.Y. Acad. Sci. Executive selection and development; psychological measurement; performance evaluation; organization and management research. Publ: Co-auth, Sales personnel description form: summary of validities, Personnel Psychol; Validity of personnel assessments conducted by professional psychologists, J. Appl. Psychol. Address: Colt Industries, Inc, 1290 Ave. of Americas, New York, N.Y. 10019.

HILTON, PROF. GEORGE W(OODMAN), b. Chicago, Ill, Jan. 18, 25. ECONOMICS. A.B, Dartmouth Col, 46; M.A, Chicago, 50, Ph.D.(econ), 56; London Sch. Econ, 53-55. Instr. ECON, Maryland, 49-51, 54-55; asst. prof, Stanford, 55-60; lectr, California, Berkeley, 61-62; PROF, CALIFORNIA, LOS ANGELES, 62- Consult. Italian transportation, World Bank, 64; chmn, President's Task Force Transportation Policy, 64. Econ. Asn; Royal Econ. Soc. Transportation; economic history. Publ: The truck system; co-auth, Electric interurban railways in America; auth, The Great Lakes car ferries, Howell-North, 63. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

HILTON, DR. HORACE GILL, Statist, see Suppl. V to 11th ed, Phys. & Biol. Vols.

HILTON, PROF. HOWARD, JR, b. Albuquerque, N.Mex, Mar. 15, 19; m. 43; c. 3. ECONOMICS. B.A, Washington (Seattle), 42; M.A, American Univ, 47; Ph.D.(econ), George Washington, 67. Asst. commercial attaché, Am. Legation, Budapest, U.S. Dept. State, 47-49, int. rels. officer, 49-55, first secy, Am. Embassy, Bonn, 55-60, exec. secy. & adv. spec. cmts, develop. asst. group, 60-63, adv. U.S. del, London & Tokyo, 61-63; chief, Int. Bank Reconstruct. & Develop. Div, Agency Int. Develop, 63-65; PROF. SOC. SCI. & ECON, PA. STATE, CAPITOL CAMPUS, 67- Mem. bd. dirs, Disc, Inc, 67- Econ. Asn; Opers. Res. Soc; Library Asn. International economics and economic documentation, including storage and retrieval of information, systems design, document identification, copyright problems and economics of information; economic development and balance of payments. Publ: The customs union study group; A unique code for the identification of recorded knowledge and information, Microcard, 67; The Franco-Italian customs union. Address: Dept. of Economics, Pennsylvania State University, Capitol Campus, Middletown, Pa. 17057.

HILTON, DR. JAMES GARDNER, b. Lafayette, Ind, Feb. 18, 33; m. 58; c. 1. ECONOMICS, STATISTICS. B.S, N.C. State Col, 54; Nat. Sci. Found. fel, Iowa State, 59-60, Ph.D, 60. Asst. prof. ECON, SOUTH CAROLINA, 60-63, ASSOC. PROF, 63- Fulbright lectr, Norweg. Sch. Econ. & Bus. Admin, 65-66. U.S.A, 54-56, 1st Lt. Economet. Soc; Statist. Asn; Econ. Asn. Operations research; econometrics; statistical methods. Publ: Co-auth, Gist of quadratic programming, Am. Prod. & Inventory Control Bull, 7/62; auth, Misuse and abuse of statistical information, Univ. S.C. Econ. Rev, 4/65; co-auth, A note on the high-low price average as an estimator of annual average stock prices, J. Finance, 3/66. Address: Dept. of Economics, University of South Carolina, Columbia, S.C. 29208.

HILTON, DR. THOMAS LEONARD, b. June 7, 24; U.S. citizen; m. 49; c. 3. PSYCHOLOGY. B.S, Mass. Inst. Tech, 49; Ph.D.(ed. psychol), Harvard, 56. Asst. dean students, Mass. Inst. Tech, 49-52, asst. to dir, digital comput. lab, 52; asst, lab. human develop, Harvard, 52-53, teacher ed. res. proj, 53-55, dir, 55-56; asst. prof. psychol. & ed, Carnegie Inst. Tech, 56-62; dir. teacher ed, 61-62; res. proj. dir, gen. prog. div, ED. TESTING SERV, 62-65, CHMN. INDIVIDUAL DEVELOP. GROUP, DEVELOP. RES. DIV, 65- U.S.A.A.F, 43-46, 1st Lt. Psychol. Asn; Sociol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed; Personnel & Guid. Asn. Human motivation; role commitment, particularly that of teachers and industrial managers; process of career decision-making; evaluation of educational outcomes. Publ: Co-auth, The new managers; auth, Alleged acceptance of the occupational role of teaching, J. Appl. Psychol; Career decision-making, J. Counseling Psychol, 62. Address: Developmental Research Division, Educational Testing Service, Princeton, N.J. 08540.

HILTY, DR. DONALD P, b. Columbis, Ohio, Mar. 17, 29; m. 58; c. 2. ECONOMICS, FINANCE. A.B, Wheaton Col, 51; M.S, Colorado, 59; Ford Found. fel, Indiana, 62-64, D.B.A, 67. Econ. analyst, MARATHON OIL CO, 59-62, PETROL. ECONOMIST, 65- U.S.A.F, 55-56, 1st Lt. Econ. Asn; Finance Asn; Asn. Bus. Econ; Soc. Int. Develop. Information economics; business conditions analysis. Address: Marathon Oil Co, 539 S. Main St, Findlay, Ohio 45840.

HILYARD, DR. DELMER MANFORD, Commun, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

HIMELSTEIN, PROF. PHILIP, b. Bronx, N.Y, Sept. 25, 23; m. 52; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 49, M.A, 50; Ph.D.(psychol), Texas, 55. Intern clin. psychol, Anna State Hosp, Ill, 50-51; res. scientist, primate lab, U.S. Dept. Air Force-Univ. Texas, 52-53; asst. psychiat, Southwest. Med. Sch, Texas, 53-54, psychol, 54-55; clin. psychologist, Vet. Admin. Hosp, Roanoke, Va, 55-56; res. psychologist, Personnel Training Res. Center, U.S. Dept. Air Force, Tex, 56-58; from asst. prof. to assoc. prof. PSYCHOL, Arkansas, 58-63; New Mexico State, 63-65; PROF, TEXAS, EL PASO, 65-, HEAD DEPT, 66- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 65. U.S.A.A.F, 42-45. Psychol. Asn; Soc. Proj. Tech; Asn. Ment. Deficiency; Asn. Adv. Behav. Ther; Inter-Am. Soc. Psychol. Publ: Co-auth, Readings on the exceptional child, Appleton, 62; auth, Research with the Stanford-Binet, Form L-M, Psychol. Bull, 66; Validities and intercorrelations of MMPI subscales predictive of college achievement, Ed. & Psychol. Measurement, 65. Address: Dept. of Psychology, University of Texas, El Paso, Tex. 79999.

HIMES, BILLY L, SR, b. Arkansas City, Kans, Dec. 11, 30; m. 57; c. 4. OPERATIONS RESEARCH. B.S, Kansas State, 58, M.S, 60. Opers. analyst, opers. res. off, Hopkins, 60-61; Res. Anal. Corp, Va, 61-64; proj. scientist, COMBINED ARMS RES. OFF, BOOZ-ALLEN APPL. RES, INC, 64-65, res. dir. mil. opers. res, 65-67, V.PRES. OPERS. RES, 67- U.S.A, 51-54, 1st Lt. Inst. Chem. Eng. Management, development and application of operations research techniques to military problems; special experience and knowledge in development of computer simulation and war gaming models for analysis of ground combat, logistics and counter-insurgency problems. Publ: Co-auth, SANDWAR I AND IA—a theater-level war game, 61, POMEX I—an experiment in computer assessment and political inputs in a theater war game, 62 & An experimental cold war model, 64, Res. Anal. Corp. Address: Booz-Allen Applied Research, Inc, Stotsenburg Hall, Ft. Leavenworth, Kans. 66027.

HIMES, DR. GLENN C, b. Crawfordsville, Ind, June 4, 29; m. 53; c. 3. AGRICULTURAL ECONOMICS. B.S, Purdue, 51, M.S, 57, Ph.D.(agr. econ), 64. Res. asst. agr. econ, Purdue, 56-57; indust. engr, Eli Lilly & Co, 57-61; res. asst. AGR. ECON, OHIO STATE, 61-63, asst. instr, 63-64, asst. prof, 64-67, ASSOC. PROF, 67- U.S.A.F, 51-55, T/Sgt. Agr. Econ. Asn. Consumer motivation; agricultural price analysis. Address: Agricultural Administration Bldg, Ohio State University, 2120 Fyffe Rd, Columbus, Ohio 43210.

HIMES, PROF. J(OSEPH) S(ANDY), b. Jefferson City, Mo, Apr. 4, 08. SOCIOLOGY. A.B, Oberlin Col, 31, A.M, 32; Ph.D, Ohio State, 38. Res. dir, Urban League, Columbus, Ohio, 36-43; ed. writer, Ohio State News, 45-46; PROF. SOCIOL, N.C. COL. DURHAM, 46- Ford Found. vis. scholar & res. assoc, California, Berkeley, 54-55; Fulbright lectr, Helsinki, 61-62, Madras, 66-67; summer vis. prof, Sacramento State Col, 59, Syracuse, 64, Duke, 67. Int. Sociol. Asn; Am. Sociol. Asn; Nat. Coun. Family Rels. Sociology of the family; social psychology; racial and ethnic relations. Publ: Social planning in America, Random, 54; co-auth, A dictionary of the social sciences, Macmillan, 64; auth, The study of sociology, Scott, 68. Address: Dept. of Sociology, North Carolina College at Durham, Durham, N.C. 27707.

HIMMELFARB, DR. SAMUEL Z(ANVELL), b. Chicago, Ill, Aug. 12, 37; m. 62; c. 1. PSYCHOLOGY. A.B, California, Los Angeles, 58, U.S. Pub. Health Serv. fel, 60-63, Ph.D.(psychol), 64. ASST. PROF. PSYCHOL, MASSACHUSETTS, AMHERST, 64- Psychol. Asn; Soc. Psychol. Study Social Issues. Social Psychology; social and motivational aspects in perception; attitude formation and change; bargaining behavior; mathematical models of social behavior. Publ: Co-auth, The effects of providing knowledge of results on the perceptual defense effect, 62 & A further study of the relationship between response bias and perceptual defense, 62, J. Abnorm. & Soc. Psychol; auth, Studies in the perception of ethnic group members: I. accuracy, response, bias, and anti-semitism, J. Personality & Soc. Psychol, 66. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01002.

HIMMELSTEIN, DR. SEYMOUR, b. New York, N.Y, Apr. 13, 28; m. 54; c. 1. ECONOMICS. B.S, City Col. New York, 48; Johnson prize scholar, New Sch. Soc. Res, 48-50, M.A, 51, Ph.D.(econ), 57. Teacher, private sch, 49-51; ECONOMIST, Am. Power Jet Co, 51-52; Textile Workers Union Am, 52-58; Blue Cross Asn, 59-62; Fed. Reserve Bank of New York, 62-64; GEN. ELEC. CO, 64- Lectr, City Col. New York, 57-65. Econ. Asn; Indust. Rels. Res. Asn. Economic stabilization and forecasting; medical economics and health benefits; labor. Address: 2621 Palisade Ave, Bronx, N.Y. 10463.

HINCKLEY, DR. BARBARA, b. Boston, Mass, Aug. 12, 37; m. 57; c. 2. POLITICAL SCIENCE. A.B, Mt. Holyoke Col, 59; Nat. Defense Ed. Act fel. & Ph.D.(polit. sci), Cornell, 68. ASST. PROF. GOVT, MASSACHUSETTS, AMHERST, 68- Polit. Sci. Asn. Legislative behavior; parties; elections. Publ: Interpreting house midterm elections: toward a measure of the in-party expected loss of seats, Am. Polit. Sci. Rev, 9/67. Address: R.D. 3, Grantwood Dr, Amherst, Mass. 01002.

HINCKLEY, PROF. ELMER D(UMOND), Psychol, see 11th ed, Phys. & Biol. Vols.

HINDERAKER, DR. IVAN, b. Hendricks, Minn, Apr. 29, 16; m. 41; c. 1. POLITICAL SCIENCE. Ph.D, Minnesota, 49. From asst. prof. to prof. polit. sci, CALIFORNIA, Riverside, 48-62, chmn. dept, 60-62, v.chancellor acad. affairs, Irvine, 62-64, CHANCELLOR, RIVERSIDE, 64- U.S.A.A.F, 42-46. United States legislature and political parties. Publ: Party politics. Address: University of California, Riverside, Calif. 92502.

HINDERSMAN, PROF. CHARLES H(ENRY), b. Cincinnati, Ohio, May 2, 25; m. 52; c. 3. BUSINESS ECONOMICS. B.S, Pennsylvania, 47; M.B.A, Miami (Ohio), 54; Ford Found. fel, Indiana, 57-59, D.B.A, 59. Sr. res. analyst, John Shillito Co, Ohio, 51-52; asst. dir. res, Crosley Broadcasting Corp, 52-55, dir, 55; instr. MKT, Miami (Ohio), 55-57, asst. prof, 59-60; assoc. prof, SOUTHERN ILLINOIS, 60-65, PROF, 65-, ASST. DEAN SCH. BUS, 66- U.S.N, 43-46, Ens. Acad. Advert; Mkt. Asn; Econ. Asn. Determination of market outlines and profiles; audience measurements; effectiveness studies. Publ: Marketing precision and executive action, Am. Mkt. Asn, 62; The marketing concept in schools of business, Collegiate News & Views, 12/65; A critique of the image concept, Bus. Perspectives, spring 67. Address: 101 N. Lark Lane, Carbondale, Ill. 62901.

HINDMAN, DR. DARRELL A(LWYN), Ed. Psychol, Guid, see 10th ed, Phys. & Biol. Vols. Latest known address: Ft. Bayard Hospital, Ft. Bayard, N.M. 88036.

HINDS, PROF. GEORGE L, Pub. Admin, see 10th ed, Soc. & Behav. Vols, deceased 64.

HINDSMAN, DR. EDWIN, b. Columbus, Miss, Aug. 13, 23; m. 49; c. 2. EDUCATIONAL PSYCHOLOGY, SOCIOLOGY. B.S, Ark. State Teachers Col, 49; fel, Texas, 50-52, M.Ed, 51, Ph.D, 60. Instr. & psychometrist psychol, Ark. State Teachers Col, 49; teacher, pub. schs, Ark, 49-50; dir. guid, pub. sch. dist, Tex, 52-53, asst. supt, 53-57; exec. officer & res. assoc, human talent res. proj, Texas, 57-60; res. coordinator, Coop. res. br, U.S. Off. Ed, 60-62; prof. ed. psychol. & dir. coop. prog. teacher ed, Indiana, 62-65; assoc. prof. ed. psychol, & assoc. dir. res. & develop. center, Texas, 65-66; DIR. SOUTHWEST ED. DEVELOP. LAB, OFF. ED, 66- U.S.M.C, 43-46. AAAS; Ed. Res. Asn; Psychol. Asn; Nat. Coun. Measurement in Ed; Nat. Soc. Study Ed. Developmental, personality, educational and social psychology; evaluation and measurement. Publ: Co-auth, Dimensions of talented behavior, Ed. & Psychol. Measurement; Influence of intelligence on anxiety and perception of self and others, Child Develop. and Factors associated with anxiety and their relation to the school achievement of adolescents, Psychol. Reports. Address: 7108 Waterline Rd, Austin, Tex. 78731.

HINE, DR. FREDERICK R(OY), b. Cincinnati, Ohio, Nov. 16, 25; m. 49; c. 1. PSYCHIATRY. B.S, Yale, 46, M.D, 49. Intern, Charity Hosp, La, 49-50; fel. & res. psychiat, sch. med, Tulane, 50-53; staff psychiatrist, Southeast La. Hosp, 53-55, dir. res. & training, 55-58, clin. dir, 58; asst. prof. PSYCHIAT, SCH. MED, DUKE, 59-63, ASSOC. PROF, 63- Instr, sch. med, Tulane, 52-58. Vis. physician, Charity Hosp, La, 53-58; attend, Vet. Admin. Hosp, Durham, 59- Psychiat. Asn; Acad. Psychoanal; Group Psychother. Asn. Objectification of psychiatric diagnosis; schizophrenia; clinical application of personality and behavior theory; psychotherapy, including milieu therapy. Address: Dept. of Psychiatry, Duke University, Durham, N.C. 27706.

HINES, DR. HOWARD H(ARRY), b. Iowa City, Iowa, June 30, 22. ECONOMICS. B.A, Iowa, 42; A.M, Harvard, 48, Ph.D.(econ), 50. Asst. prof. econ, Iowa State, 50-56, assoc. prof, 56-60, prof, 60-62; econ. prog. dir, NAT. SCI. FOUND, 62-64, DIV. DIR. SOC. SCI, 64- Acting asst. prof, California, 55-56. A.U.S, 43-46. Econ. Asn; Economet. Soc; Royal Econ. Soc. Entry by large-scale business. Address: Division of Social Sciences, National Science Foundation, Washington, D.C. 20550.

HINES, JOSEPH W(ALKER), b. Jackson, Mo, June 18, 24. ECONOMICS. A.B, E.Carolina Col, 48; M.A, North Carolina, 51. Economist, U.S. BUR. LABOR STATIST, 52, tech. supvr. Va. employ. statist. prog, 52-54, asst. employ. analyst, south. region, 55-61, manpower & employ. analyst, 62-64, ASST. REGIONAL DIR, Cleveland Regional Off, 64-67, KANS. CITY REGIONAL OFF, 67- U.S.A.A.F, 43-46. Statist. Asn. Economic statistics. Publ: Recent trends and developments in the flue-cured tobacco export trade, South. Econ. J. Address: U.S. Dept. of Labor, 911 Walnut St, Room 312 FOB, Kansas City, Mo. 64106.

HINES, PROF. LAWRENCE G(REGORY), b. Leavenworth, Kans, Oct. 31, 15. ECONOMICS. A.B, Kansas, 38; A.M, Minnesota, 42, Ph.D, 46. Asst. employ. stabilization res. inst, Minnesota, 41-42; from instr. to asst. prof, 42-45, 46; lectr. econ, Am. Univ, 45-46; asst. prof. ECON, DARTMOUTH COL, 47-52, PROF, 52-, chmn. div. soc. scis, 59-62 & dept. econ, 62-64. Air intel. specialist, Off. Naval Intel, 45-46; Ford Found. faculty res. fel, 59; Nat. Sci. Found. res. grant, 64-65. Consult, U.S. Dept. Health, Ed. & Welfare, 58-62; Off. Econ, U.S. Dept. Transportation, 67- Mem. nat. coun, Am. Asn. Univ. Prof, 60-62. Econ. Asn; Regional Sci. Asn; Royal Econ. Soc. Application of economic theory; pricing process in the iron ore and iron and steel industries; principles of economics. Address: Dept. of Economics, Dartmouth College, Hanover, N.H. 03755.

HINES, DR. RALPH H, b. Chicago, Ill. MEDICAL SOCIOLOGY. B.A, Illinois, 49, Ford Found. fel, 51-52, M.A, 52, Fulbright fel, 52-54, Ph.D.(sociol), 55; M.A, Copenhagen, 51. Prof. sociol, Langston, 57-58; dir, Amerika Haus-Berlin, U.S. Info. Serv, 58-60; prof. sociol, Ala. State Col, 60-63; assoc. prof, Howard, 63-65; psychiat, MEHARRY MED. COL, 65-68, PROF. PSYCHIAT. & V.PRES, 68- Sociol. Asn; Pub. Health Asn. Epidemiology of physical and mental health; environmental health and community medicine; community psychiatry. Address: Dept. of Psychiatry, Meharry Medical College, Nashville, Tenn. 37208.

HINGTGEN, DR. JOSEPH NICHOLAS, b. Dubuque, Iowa, Nov. 18, 36; m. 65; c. 1. EXPERIMENTAL PSYCHOLOGY. B.S, Loras Col, 58; Ph.D.(psychol), Loyola (Ill), 63. Res. asst. PSYCHOL, Loyola (Ill), 59-62, teaching asst, 60-62; instr, SCH. MED, INDIANA, 63-66, ASST. PROF, 66-, RES. ASSOC, 62- Lectr, Marian Col.(Ind), 63- AAAS; Psychol. Asn; Soc. Biol. Psychiat. Neurochemical correlates of behavior; behavior modification in children with severe learning disorders. Publ: Co-auth, Behavioral response rates in pigeons: effect of alpha-methyl-m-tyrosine, Science, 63, Intensive reinforcement of imitative behavior in mute autistic children, Arch. Gen. Psychiat, 67 & Neurochemical transmitters and behavior, J. Psychopharmacol, 68. Address: Dept. of Psychiatry, Indiana University Medical School, Indianapolis, Ind. 46200.

HINICH, DR. MELVIN J, b. Pittsburgh, Pa, Apr. 29, 39; m. 66; c. 1. STATISTICS. B.S, Carnegie Inst. Tech, 59, M.S, 60; Ph.D.(statist), Stanford, 64. ASST. PROF. INDUST. ADMIN. & STATIST, CARNEGIE-MELLON UNIV, 63- Consult, Hudson Labs, Columbia Univ, 65-66 & 67-, res. scientist, 66-67. Inst. Math. Statist; Statist. Asn. Time series analysis; mathematical models in political sciences. Publ: Co-auth, A mathematical model of policy formation in a democratic society, In: Mathematical applications in political science, II, Arnold Found. Monogr, Southern Methodist Univ, 66; auth, Estimation of spectra after hard clipping of Gaussian processes, Technometrics 8/67 & Detection of an incoherent signal using a number of detectors, J. Acoustical Soc. Am, 11/67. Address: Dept. of Statistics, Carnegie-Mellon University, Schenley Park, Pittsburgh, Pa. 15213.

HINK, DR. DOUGLAS L(EE), b. Omaha, Nebr, May 31, 30. SOCIAL PSYCHOLOGY. A.B, San Francisco State Col, 54; M.A, Chicago, 56, Ph.D. (human develop), 66. Res. asst, cmt. human develop, Univ. Chicago, 55-56; res. assoc, Soc. Res. Inc, 56-59, res. dir, Inst. Advert. Res, 59-60; consult. advert. & motivational res, Inst. Mkt. Psychol, 60-61; proj. dir. motivational & advert. res, Mc-Cann-Erickson, Inc, 62-63; study dir. community serv. proj, Calif. Heart Asn, 64-66; ASST. PROF. RES, FLORENCE HELLER GRAD. SCH. ADV. STUDIES SOC. WELFARE, BRANDEIS, 66- U.S.N, 48-52. Psychol. Asn; Sociol. Asn; Pub. Health Asn; Geront. Soc. Psychological and social aspects of adulthood and aging, especially immediate, small social systems; reaction to stress situations such as illness, retirement; medical care. Publ: Co-auth, Perception of aging by significant others, Int. Cong. Geront, 66; auth, Styles of interaction among older persons, Gerontologist, 9/67. Address: Heller Graduate School, Brandeis University, Waltham, Mass. 02154.

HINK, PROF. HEINZ R(UDOLF), b. Berlin, Germany, Jan. 26, 27; nat; m. 56; c. 3. POLITICAL SCIENCE, LAW. LL.B, Berlin, 48; Free Univ. Germany, 49-50; M.A, Washington (Seattle), 52, Ph.D.(polit. sci, pub. law & polit. theory), 57. Lawyer, Berlin, 48-50; acting instr. POLIT. SCI, Washington (Seattle), 54-56, lectr, 56-58; asst. prof, ARIZONA STATE, 58-60, assoc. prof, 60-63, PROF, 63-, dir. center Am. studies, 67-68. Soc. Sci. Res. Coun. fel, summer 61. Mem. exec. cmt, South. Calif-Ariz. Citizenship Clearning House, 59-; chmn, Gov. Cmt. Legis. Reapportionment, Ariz, 64-; chief consult, Joint Legis. Cmt. Reapportionment, Ariz, 65-; res. dir, Coun. Orgn. Ariz. State Govt, 67- Polit. Sci. Asn; Soc. Int. Law; Law & Society Asn. Constitutional law and jurisprudence; comparative aspects of governmental tort liability. Publ: Revision of Arizona's constitution, Ariz. Acad, 64; co-auth, Constitutional government in Arizona, Arizona State Univ, 2nd ed, 65; auth, The application of constitutional standards of protection to probation, Univ. Chicago Law Rev. Address: Dept. of Political Science, Arizona State University, Tempe, Ariz. 85281.

HINKEL, DR. EDGAR J(OSEPH), b. San Francisco, Calif, Apr. 17, 03; m. 37. PSYCHOLOGY. A.B, St. Mary's Col.(Calif), 26; M.A, California, 28, Ph.D. (psychol), 48. CONSULT. PSYCHOLOGIST, 48- Psychol. Asn. Child, adolescent and clinical psychology; juvenile delinquency in peace and war; a study of male offenders appearing before the San Francisco Juvenile Court. Address: 617 Prospect Ave, Oakland, Calif. 94610.

HINKELMAN, DR. HAROLD I(RVIN), b. Williamsport, Pa, Oct. 13, 10; m. 47; c. 2. BUSINESS ADMINISTRATION. B.S, Shippensburg State Col, 40; M.S, Bucknell, 46; fel, N.Y.Univ, 57-58, Ph.D.(acct), 64. Admin. asst. to secy. bd. ed, Williamsport Sch. Dist, Pa, 40-42; assoc. prof. acct. & dir. div. bus. admin, Lycoming Col, 46-52; assoc. prof. acct, Bucknell, 52-65; PROF. ACCT. & CHMN. DEPT. ECON. & BUS. ADMIN, ITHACA COL, 65- Haskins & Sells Found. award, 58. U.S.N.R, 42-45, Lt. Acct. Asn. Accounting for corporate combinations. Address: Dept. of Economics & Business Administration, Ithaca College, Ithaca, N.Y. 14850.

HINKELMANN, DR. KLAUS H(EINRICH), b. Bad Segeberg, Germany, June 6, 32; m. 66. STATISTICS. Dipl. math, Hamburg, 58; Ph.D.(statist), Iowa State, 63. Res. assoc. statist, Inst. Forest Genetics, Schmalenbeck, Germany, 59-60 & 64; sci. asst, Inst. Med. Statist, Univ. Freiburg, 64-66; ASSOC. PROF. STATIST, VA. POLYTECH, 66- Biomet. Soc; Inst. Math. Statist. Genetic statistics; experimental design; statistical methods. Publ: A commonly occurring incomplete multiple classification model, Biometrics, 63; Extended group divisible partially balanced incomplete block designs, Ann. Math. Statist, 64; Partial triallel crosses, Sankhya, 65. Address: Dept. of Statistics, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

HINKLE, DR. CHARLES L, b. Flat River, Mo, Jan. 26, 26; m. 50; c. 2. MARKETING, ECONOMICS. B.B.A, Baylor, 57, M.S, 59; U.S. Steel & Ford fels. & D.B.A, Harvard, 64. ASSOC. PROF. bus. admin. & statist, Baylor, 64-65; BUS. ADMIN, COLORADO, 65- Summers, Ford Found. fel, Carnegie Inst. Tech, 65 & vis. assoc. prof, Pittsburgh, 66. Consult, Mkt. Sci. Inst, 64- U.S. Maritime Serv, 43-46; U.S.A, 52-53. Econ. Asn; Mkt. Asn; Acad. Polit. & Soc. Sci. Behavioral science in marketing research; consumer perception of product-service combinations and choice models; manufacturer-retailer promotions. Publ: Co-auth, Promotional decisions using mathematical models, Allyn & Bacon, 67, Standard industrial classification for effective marketing analysis, Mkt. Sci. Inst, 67 & Heuristic models; mapping the maze for management, Calif. Mgt. Rev, fall 67. Address: Dept. of Business Administration, University of Colorado, Colorado Springs, Colo. 80907.

HINKLE, DR. GISELA J, b. Kaliningrad, Germany, June 13, 26; nat; m. 47; c. 3. SOCIOLOGY. B.S, American Univ, 46; M.A, Indiana, 48; Laird fel, Wisconsin, 49, Ph.D, 51. Asst. SOCIOL, Wisconsin, 49-50; asst. prof, Col. William & Mary, 52-53; lectr, Rochester, 53-55; res. assoc, personnel res. bd, Ohio State, 59-62, lectr. sociol, 63; PART TIME LECTR, TEMPLE & PRIVATE RES, 65- Summer instr, Maine, 51. Fel. Sociol. Asn; Anthrop. Asn. American sociological theory; sociology of values; social psychology. Publ: Co-auth, Development of modern sociology: its nature and growth in the United States; Sociology and psychoanalysis. Address: 234 Roberts Ave, Glenside, Pa. 19038.

HINKLE, DR. JOHN EDWARD, b. Fargo, N.Dak, Aug. 25, 26; m. 53; c. 4. PSYCHOLOGY. B.S, N.Dak. State, 49; M.A, Denver, 54, Ph.D.(psychol), 56. Staff psychologist, Children's Diag. Center, Colorado, 56; chief psychologist, Minnehaha Ment. Health Center, Sioux Falls, 56-59; Arapahoe Ment. Health Center, Englewood, Colo, 59-64, asst. dir, 64-65; ASSOC. PROF, COUNSELING CENTER, COLORADO STATE, 67- Clin. psychologist, Larned State Hosp, Larned, Kans, 56-57; private practice, 60-65; consult. psychologist, Univ. Denver, 62; prin. investr, Nat. Inst. Ment. Health res. grant, ment. health develop. in sparsely populated areas, 65-67; exec. dir, Southeast Wyo. Ment. Health Center, Cheyenne, 65-67. Consult, Gov. Adv. Cmt. Ment. Health, Colo, 60-62; adv. coun, Community Ment. Health Clins, Colo, 61-65. Mem, State Bd. Psychologist Exam, Wyo, 65-67. U.S.A, 45-46. Psychol. Asn. Publ: Co-auth, A case study in community agency visitation, spring 67 & Research in a community mental health center—a framework for action, (in press), Community Ment. Health J; The non-linearity of self concept discrepancy—the value dimension, Psychol. Reports, 67. Address: Counseling Center, Colorado State University, Fort Collins, Colo. 80521.

HINKLE, MARK L, JR, b. Marion, Ind, July 4, 25; m. 47; c. 3. APPLIED STATISTICS. B.S, Purdue, 49, M.S, 55; Tennessee, 55-56; Hopkins, 58. Teacher, pub. high schs, Ind, 49-53; asst, statist. lab, Purdue, 53-55; assoc. statistician, Union Carbide Nuclear Co, Tenn, 55-56; sr. programmer, West. Elec. Co, Ill, 56-58; group engr, Proj. Vanguard, Martin Co, Md, 58-59; consult. statistician, light mil. electronics dept, Gen. Elec. Co, N.Y, 59-65; STAFF MATHEMATICIAN, RAYTHEON CO, 65- U.S.A, 43-46, 51-52, Res, 52-, Capt. Inst. Math. Statist; Inst. Elec. & Electronics Eng; Nat. Sci. Teachers Asn; Statist. Asn. Design and analysis of experiments; multiple regression analysis; probability theory application to reliability, availability and system effectiveness analysis; statistical error analysis. Publ: Availability as a parameter in system evaluation; Random balance experimental design to establish a reliable process and control for thin films. Address: 1324 W. Fourth St, Marion, Ind. 46952.

HINKLE, PROF. ROSCOE C(ONKLING), JR, b. Union Deposit, Pa, Mar. 13, 21; m. 47; c. 3. SOCIOLOGY. B.A, Elizabethtown Col, 43; M.A, Minnesota, 48; fel, Wisconsin, 49, Ph.D, 52. Instr. SOCIOL, Indiana, 47-48; asst, Wisconsin, 49-50; instr, Maine, 50-53; asst. prof, Rochester, 53-55; vis. asst. prof, Ohio State, 55-56, asst. prof, 56-59; assoc. prof, 59-64; PROF, TEMPLE, 64- Faculty res. award, Temple, summer 67. Fel. Sociol. Asn. Sociological theory; history of American sociology; social stratification and change. Publ: Co-auth, Development of modern sociology, its nature and growth in the United States; auth, Antecedents of the action orientation in American sociology before 1935, Am. Sociol. Rev, 63; Charles Horton Cooley's general sociological orientation, Sociol. Quart, 67. Address: 234 Roberts Ave, Glenside, Pa. 19038.

HINNERS, DR. DAVID G, Int. Rels, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HINRICHS, PROF. A(LBERT) F(ORD), b. Brooklyn, N.Y, Sept. 20, 99. ECONOMICS. A.B, Columbia, 21, A.M, 22, univ. fel, 22-23, Ph.D, 23. Instr. econ, Columbia, 23-24; dir. res, State Bur. Housing & Regional Planning, N.Y, 24-27; assoc. prof. econ. & statist, Brown, 27-34, dir. bur. bus. res, 29-34; chief economist, U.S. Bur. Labor Statist, 34-40, asst. & acting cmnr, 40-46; asst. dir. fiscal trade policy div, Econ. Coop. Admin, 48-54; exchange prof. from Wharton Sch, Pennsylvania to Univ. Karachi, Pakistan, 55-57; from prof. to EMER. PROF. BUS. ADMIN, SYRACUSE, 57- U.S. Govt. adv, Int. Labor Confs, 36-45; chief of party, statist. adv, Govt. of Pakistan, 59-61; statist. adv, Govt. Repub. of China, 65-67. Alternate mem, Temporary Nat. Econ. Cmt, 38-41. United Mine Workers of America and the non-union coal fields; national economic and social planning; printing industry in New York City. Address: 104 Beaumont Place, Syracuse, N.Y. 13214.

HINRICHS, DR. JAMES V(ICTOR), b. Harlan, Iowa, May 19, 41; m. 64. PSYCHOLOGY. B.A, Iowa, 63; Nat. Defense Ed. Act & Nat. Sci. Found. fels. & A.M, Stanford, 64, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, IOWA, 67- AAAS. Short-term memory; experimental and mathematical psychology. Address: Dept. of Psychology, University of Iowa, Iowa City, Iowa 52240.

HINRICHS, DR. JOHN RYLAND, b. Baltimore, Md, July 19, 29; m. 54; c. 2. PSYCHOLOGY, INDUSTRIAL RELATIONS. A.B, Hopkins, 51; M.S, Purdue, 56; Ph.D.(indust. rels), Cornell, 62. Res. assoc. personnel, Esso Res. & Eng. Co, 56-59; manpower adv. Mobil Oil Co, 62-63; res. assoc. personnel res, Int. Bus. Mach. Corp, 63-67; ASSOC. PROF. INDUST. RELS, CORNELL, 67- U.S.N, 51-54, Lt.(jg). Psychol. Asn; Indust. Rels. Res. Asn. Labor relations; industrial motivation; development of psychological measurements for industrial selection and placement and manpower forecasting. Publ: High-talent personnel, Am. Mgt. Asn, 66; The attitudes of research chemists, 64 & co-auth, Empirical & theoretical limitations of the two-factor hypothesis of job satisfaction, 67, J. Appl. Psychol. Address: 12 Outlook Dr. Darien, Conn. 06820.

HINRICHS-DYRUD, DR. GRACE B, b. Red Wing, Minn, Jan. 2, 35; m. 66; c. 1. PSYCHOLOGY. B.A, Minnesota, 57, Ph.D.(psychol. of learning), 63. Res. asst, inst. child develop, Minnesota, 57-60; instr. psychol, Wisconsin, 60-61, asst. prof, 61-62; AUGSBURG COL, 62-66, ASSOC. PROF, 66-, CHMN. DEPT, 64-, acting chmn. dept, 62-64. Writer & consult, Minnemast Center, Univ. Minnesota, 63- AAAS; Psychol. Asn; Soc. Psychol. Study Social Issues. Psychology of learning; psychology of cognitive development of structures in thinking, development of strategies in thinking or problem-solving, curriculum evaluation research. Publ: Various Pub, Minnemast Center, Univ. Minnesota, 63-; co-auth, Developmental abnormal psychology, Holt, 66; auth, Associative learning: one-trial or incremental, Psychol. Reports. Address: Dept. of Psychology, Augsburg College, Minneapolis, Minn. 55404.

HINSHAW, PROF. RANDALL, b. La Grange, Ill. May 9, 15; m. 49; c. 3. INTERNATIONAL ECONOMICS & FINANCE. B.A, Occidental Col, 37, M.A, 39; South East Club fel, Princeton, 40-41, Ph.D.(econ), 44; fel, Harvard, 42-43. Economist, bd. governors, Fed. Reserve Syst, D.C, 43-46, 47-52; asst. prof. econ, Amherst Col, 46-47; spec. adv, U.S. Mission to NATO & European Regional Orgns, France, 52-57; vis. prof. econ. grad. sch. Yale, 57-58; Oberlin Col, 58-59; res. fel, Coun. For. Rels. 59-60; PROF. ECON. CLAREMONT GRAD. SCH, 60-, CHMN. DEPT, 67- Vis. prof, Bologna Center, Johns Hopkins, Italy, 65-67. Consult, European Hqs, Marshall Plan, France, 50. U.S. rep, joint trade & payments cmt, Orgn. European Econ. Coop, 52-57; U.S. del. UN Econ. Cmn. Europe, Switz, 55-57. Mem. Coun. For. Rels. U.S.A. 43. Econ. Asn: Econometr. Soc. Commercial and international financial policy; exchange-rate policy. Publ: The European community and American trade, Praeger, 64; co-auth. & ed, Monetary reform and the price of gold, Johns Hopkins, 67; Toward European convertibility, In: Essays in international finance. Address: Dept. of Economics, Claremont Graduate School, Claremont, Calif. 91711.

HINSHAW, DR. ROBERT E, b. Wichita, Kans, Dec. 2, 33; m. 53; c. 3. SOCIAL ANTHROPOLOGY. B.A, Haverford Col, 55; M.A, Chicago, 63, Nat. Inst. Ment. Health fel. & res. award, 63-66, Ph.D.(anthrop), 66. Prin, Olney Friends Sch, Ohio, 58-61; ASST. PROF. ANTHROP, KANSAS, 66- Anthrop. Asn; Acad. Polit. & Soc. Sci. Indian cultures of Latin America, specifically the Mesoamerica; field research among Maya Indians of western Guatemala; ethnophilosophy and world view: comparative religion; culture change and applied/action anthropology. Address: 1621 Oxford Rd, Lawrence, Kans. 66044.

HINTON, DEAN BILLY J(EAN), b. Ft. Worth, Tex, Mar. 21, 23; m. 65; c. 4. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Baylor, 46, M.A, 47; Ph.D.(econ), La. State, 55. From instr. to prof. & chmn. dept. econ. & finance, Baylor, 47-65; PROF. BUS. ADMIN. & DEAN COL. APPL. ARTS, SOUTHWEST TEX. STATE COL, 65- Found. Econ. Ed. summer fel, 63. City councilman & mayor, Waco, Tex, 58-62; corp. dir. & officer, several domestic corp, 58-67; consult. & adv, credit unions, 60-67. U.S.A.F.R, 42-, Lt. Col. Econ. Asn. Industrial price analysis: management training in financial institutions. Publ: A planned investment program, Baylor Univ, 57; What we expect of management, Koster-Dana Corp, N.Y, 63. Address: Dept. of Business Administration, Southwest Texas State College, San Marcos, Tex. 78666.

HINTON, PROF. HAROLD CLENDENIN, b. Neuilly-sur-Seine, France, Oct. 26, 24; U.S. citizen; m. 46; c. 2. POLITICAL SCIENCE. A.B, Harvard, 46, M.A, 48, Ph.D.(hist), 51. Asst. prof. hist, Georgetown, 50-57; training officer, for. serv. inst, U.S. Dept. State, 57-60; assoc. prof. hist, Trinity Col. (D.C), 60-64; INT. AFFAIRS, GEORGE WASHINGTON, 64-67, PROF, 67- Fulbright sr. res. grant, U.K, 52-53; staff mem, Inst. Defense Anal, 60-; vis. lectr, Columbia, 60; Inst. Sino-Soviet Studies, George Washington, 62-64; sch. adv. int. studies, Hopkins, 62-67; summer vis. lectr, Harvard, 56. Consult, U.S. Dept. State, 51-52; Rand Corp, 54-58; U.S. Info. Agency, 54-58. U.S.A, 43-46, Res, 46-53, 1st Lt. Asn. Asian Studies; Polit. Sci. Asn; Hist. Asn. Chinese communism, especially Communist China's political system and foreign policy; Asian international politics. Publ: Co-auth, Major governments of Asia, Cornell, 58, 63; auth, Communist China in world politics, Houghton, 66; China's relations with Burma and Vietnam, Inst. Pac. Rels, 58. Address: Institute of Sino-Soviet Studies, George Washington University, Washington, D.C. 20006.

HINTON, DR. THOMAS BENJAMIN, b. Ajo, Ariz, Sept. 5, 24; m. 66. ANTHROPOLOGY. B.A, Arizona, 55; M.A, California, Los Angeles, 58, Ph.D. (anthrop), 61. Lectr. ANTHROP, Toronto, 61-63, asst. prof, 63-65, assoc. prof, 65-66; vis. assoc. prof, Oklahoma, 66-67; ASSOC. PROF. COLORADO, 67- Fel. Anthrop. Asn; Ethnol. Soc. Archaeology and ethnology of the southwestern United States and Mexico; culture change and modernization problems among Indian and Mestizo groups in northern Mexico. Publ: Indian assimilation in eastern Sonora, Anthrop. Papers Univ. Arizona, 59; Cora community organization, In: Culture change and stability, Dept. Anthrop, Univ. California, Los Angeles, 64; co-auth, The Huichol and Cora, In: Handbook of middle American Indians, Univ. Texas, 68. Address: Dept. of Anthropology, University of Colorado, Boulder, Colo. 80302.

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HIPPCHEN, DR. LEONARD JOSEPH, b. Villa Park, Ill, Sept. 3, 23; m. 46; c. 3. SOCIAL PSYCHOLOGY, MASS COMMUNICATIONS. B.J, Texas, 49, M.J, 51; Farrell scholar, Iowa, 52-53, Ph.D, 55. Asst. prof. journalism, Georgia, 53-55; assoc. prof, San Jose State Col, 55-57; soc. work specialist, Santa Clara County Welfare Dept, Calif, 57-59; asst. dir. community res, United Fund & Potter-Randall Citizens Cmt, Tex, 59-60; chief res. & anal. br, retraining group, U.S. Dept. Air Force, 60-65; res. assoc. juvenile delinquency, Children's Bur, Dept. Health, Ed. & Welfare, 65-66; ASSOC. PROF. CRIMINOL. & CORRECTIONS, FLA. STATE, 66- Consult, interim cmt. Joint Cmn. Manpower & Training in Corrections, 63-65; cmt. classification & treatment, Am. Correctional Asn, 66- U.S.A.A.F, 42-46, Sgt. Sociol. Asn; Soc. Criminol. Therapeutic community and team treatment approaches to correctional problems related to the prevention, control and treatment of delinquents and criminals. Publ: Therapeutic community approach to rehabilitation of offenders, 63 & Team treatment of Air Force offenders, 67, Am. J. Corrections; contrib, The military offender, 68. Address: 2225 Woodlawn Dr, Tallahassee, Fla. 32303.

HIPPLE, PROF. BYRON THOMAS, b. West Chester, Pa, June 5, 13; m. 39. PUBLIC ADMINISTRATION, PUBLIC FINANCE. A.B, Haverford Col, 34; M.S, Syracuse, 41. Staff mem, Gov. Cmn. Unemploy. Relief, N.Y, 35-36; cmt. pub. admin, Soc. Sci. Res. Coun, 36-37; exec. dir, Elk County Bd. Assistance, Pa, 37-38; assoc. tech. adv. finance, bur. pub. assistance, Fed. Soc. Security Bd, 38-39, soc. sci. analyst, bur. res. & statist, 39-42; chief proj. & cost statist. sect, div. statist, Fed. Pub. Housing Admin, 42-43; asst. to cmnr, N.Y. State Dept. Soc. Welfare, 43-50, dep. cmnr, 50-62, acting cmnr, 62; PROF. PUB. ADMIN, GRAD. SCH. PUB. AFFAIRS, STATE UNIV. N.Y. ALBANY, 62- Asst. dir, N.Y. State Div. Budget, 66-67. Consult, N.Y. State Div. Budget, 62-63; Temporary State Cmn. Per Capita Aid, N.Y, 62-64; Temporary Cmn. State-Local Fiscal Rels, N.Y, 64-65. Trustee, Edwin Gould Found. Children & mem. bd. dirs, Edwin Gould Serv. Children, New York, 65- Mem. adv. cmt. fiscal & admin. probs, Spec. Legis. Cmt. Soc. Welfare, N.Y, 49-50; adv. cmt, Russell Sage Col, 50-51; consumer's adv. cmt. 1960 census, bur. census, U.S. Dept. Commerce, 57-59; chmn, State Adv. Cmt. Voc. Rehab. Planning, N.Y, 67- Polit. Sci. Asn; Soc. Pub. Admin; Pub. Welfare Asn. Social welfare policy issues and administration; intergovernmental fiscal relations and public social services. Publ: Co-auth, The administration of old age assistance, Pub. Admin. Serv, Chicago, 39; Analyzing the use of staff time in public assistance agencies, U.S. Govt. Printing Off, 41; auth, Fiscal policy and the public social services, Grad. Sch. Pub. Affairs, State Univ. N.Y. Albany, 65. Address: 56½ Spring St, Albany, N.Y. 12210.

HIRABAYASHI, PROF. GORDON K(IYOSHI), b, Seattle, Wash, Apr. 23, 18; m. 44; c. 3. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Washington (Seattle), 46, Livington fel & M.A, 49, Ph.D.(sociol), 52. From teaching assoc. to instr. sociol, Washington (Seattle), 47-51; res. sociologist, Doukhobor Res. Cmt, British Columbia, 51; from asst. prof. to assoc. prof. & chmn. dept, American Univ. Beirut, 52-54; asst. dir. soc. res. center, American Univ. Cairo, 55-59; assoc. prof. SOCIOL, ALBERTA, 59-64, PROF. & HEAD DEPT, 64- Vis. prof, Ain Shams Univ, Egypt, 55-56. Consult, Am. Friends Serv. Cmt, 54-59; Can. Weekly Newspapers Asn, 59-60; Alta. Tuberc. Asn, 60-; Indian-Eskimo Asn. Can, 60- Fel. Sociol. Asn; Soc. Study Soc. Probs; Asn. Pub. Opinion Res; Can. Polit. Sci. Asn; Can. Inst. Commun. Rapid social changes, especially urgent changes of whole cultures. Publ: Co-auth, Industrialization in Alexandria; auth, Social change in Jordan: a quantitative approach in a non-census area, Am. J. Sociol; co-auth, Social differentiation in selected Lebanese villages, Sociol. Rev. Address: Dept. of Sociology, University of Alberta, Edmonton, Alta, Can.

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HIRE, PROF. A. WILLIAM, b. N.C, June 3, 12. PSYCHOLOGY. B.A, Guilford Col, 33; M.A, Hawaii, 40; Ed.M, Harvard, 44, Ed.D.(ed. & clin. psychol), 49; Boston Psychoanal. Inst, 56-63. Instr, Mid-Pac. Inst, 37-40; asst. prof. psychol. & dean men, Guilford Col, 43-45; vis. asst. prof, Connecticut Col, 45-46; staff psychologist, Judge Baker Guid. Center, 46-49; assoc. prof. PSYCHOL, BOSTON, 49-58, PROF, GRAD. & MED. SCHS, 58-, lectr, sch. med, 47-49. Lectr, woman's col, North Carolina, 44-45; chief psychologist, Mass. Mem. Hosps, 47-58. Consult, Judge Baker Guid. Center, 58- Psychol. Asn; Orthopsychiat. Asn. Perception; personality; projective tests, psychotherapy. Publ: Co-auth, Case book in abnormal psychology. Address: Dept. of Psychology, Boston University, Boston, Mass. 02215

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HIRSCH, DR. EVA, b. Berlin, Germany, Aug. 7, 20; U.S. citizen; m. 51. ECONOMICS. B.A, Michigan, 45; M.A, Columbia, 48, Ph.D.(econ), 60. Asst. prof. ECON, Long Island, 62-63; RUTGERS, 65-67, ASSOC. PROF, 67- Summers, Soc. Sci. Res. Coun. fel, 60, 63 & 65 & Rutgers Univ. Res. Coun. fel, 66. Econ. Asn; Econ. Hist. Asn; fel. Mid. East Studies Asn. N.Am. Effect of economic development on income distribution in underdeveloped countries. Publ: Co-auth, Changes in agricultural output per capita of rural population in Turkey, 1927-1960, Econ. Develop. & Cultural Change, 7/63; auth, A method of estimating the distribution of farm income in Turkey, J. Develop. Studies, London, 1/66; co-auth, Tax reform and the burden of direct taxation in Turkey, Pub. Finance, Number 3, 66. Address: 95 Eastern Pkwy, Brooklyn, N.Y. 11238.

HIRSCH, DR. JAY G, b. Cleveland, Ohio, Aug. 6, 30; m. 62; c. 3. PSYCHIATRY. B.S, Cincinnati, 50, M.D, 54. Intern, Phila. Gen. Hosp, Pa, 54-55; res. psychiat, Illinois, 57-60; fel. child psychiat, INST. JUVENILE RES, 60-62, res. child psychiatrist, 62-66, CHIEF DIV. PREV. PSYCHIAT, 66- Mem. task force V, Joint Cmn. Ment. Health Children, 67- U.S.A.F, 55-57, Res, 57-63, Capt. AAAS; Psychiat. Asn; Orthopsychiat. Asn. Preventive psychiatry, especially study of the determinants of academic achievement among socially disadvantaged children. Publ: Individual characteristics and achievement, In: Teaching the culturally disadvantaged pupil, C.C. Thomas, 65. Address: Institute for Juvenile Research, 232 E. Ohio St, Chicago, Ill. 60611.

HIRSCH, PROF. JERRY, Psychol, see 11th ed, Phys. & Biol. Vols.

HIRSCH, DR. LEON VICTOR, b. New York, N.Y, May 17, 31. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Cornell, 52; Charles A. Smith fel. & M.B.A, Harvard, 54, Ford Found. fel. & D.B.A, 60; Am. Coun. Learned Socs. & Soc. Sci. Res. Found. grant, London, London Sch. Econ. & Sch. Oriental & African Studies, 54-55. Assoc. mgt. consult. & exec. training, Harbridge House, Inc, 60-61; sr. assoc. mgt. consult. & econ. res, UNITED RES, INC, 61-64, v.pres, 64-68, SR. V.PRES, 68-, GEN. MGR. MGT. & ECON. PLANNING DIV, 64-, MEM. BD. DIRS, 67- Consult, transport res. prog, Brookings Inst, 62-63. Mem, Gov. Adv. Cmt. Econ. Develop, Mass, 64. Mkt. Asn; Pub. Health Asn. Economic development; public health; marketing; government business relations; long range planning; transportation. Publ: Marketing in an underdeveloped economy, Prentice-Hall, 61; co-auth, The impact of highway investment on development, Brookings Inst, 66; Combining public health nursing agencies, Nat. League Nursing, 67. Address: United Research Inc, 607 Boylston St, Boston, Mass. 02116.

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HIRSCH, PROF. WALTER, b. Germany, May 12, 19; U.S. citizen; m. 47; c. 4. SOCIOLOGY. A.B, Queens Col.(N.Y), 41; Columbia, 46-47; M.A, Northwestern, 54, Ph.D.(sociol), 57. Tutor, Queens Col.(N.Y), 46-47; from asst. prof. to assoc. prof. SOCIOL, PURDUE, 47-66, PROF, 66- Designer, Sociol. Resources Sec. Schs, 65-66. U.S.A, 42-45. AAAS; Sociol. Asn. Social psychology; political sociology; sociology of science. Publ: Co-auth, Readings in the sociology of science; co-auth, Explorations in social change, Houghton, 64; auth, Autonomy of science in totalitarian societies. Address: Dept. of Sociology, Purdue University, Lafayette, Ind. 47907.

HIRSCH, PROF. WERNER Z(VI), b. Linz, Germany, June 10, 20; nat; m. 45; c. 3. ECONOMICS. B.S, California, 47, fel, 47-48, Ph.D, 49. Instr. econ, California, 49-51; econ. affairs officer, fiscal div, UN, 51-52; economist, Brookings Inst, 52-53; asst. prof. econ, Washington (St. Louis), 53-55, assoc. prof, 56-58, prof, 59-63, dir. Inst. Urban & Regional Studies, 61-63; PROF. ECON. & DIR. INST. GOVT. & PUB. AFFAIRS, CALIFORNIA, LOS ANGELES, 63- Asst. res. dir. & chief economist, St. Louis Metrop. Surv, Ford Found, 56-57; economist, Resources for Future, Inc, 58-59. Consult, Joint Econ. Cmt. of Cong, 59; Internal Revenue Serv, 60-62; Econ. Adv. Panel, Nat. Sci. Found, 61-63; Nat. Aeronautics & Space Admin, 61-66; Bur. Budget, 66- Econ. Asn; Agr. Econ. Asn; Statist. Asn. Urban and regional economics; public finance; statistics. Publ: Expenditure, implications of metropolitan growth and consolidation & Interindustry relations of a metropolitan area, Rev. Econ. & Statist; Design and use of regional accounts, Am. Econ. Rev. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

HIRSCHFIELD, PROF. ROBERT S(IDNEY), b. St. Louis, Mo, Sept. 1, 28; m. 53. POLITICAL SCIENCE. A.B, Harvard, 50, LL.B, 53, M.A, 54; fel, N.Y. Univ, 55-56, Ph.D, 58. Asst. govt, Harvard, 53-54; instr, N.Y. Univ, 56-57; POLIT. SCI, HUNTER COL, 58-60, asst. prof, 61-64, assoc. prof, 64-66, PROF, 67- American government and politics; judicial policy making; presidential leadership. Publ: The Constitution and the court; Power of the contemporary presidency, Parliamentary Affairs; Crisis government in the U.S, Pub. Policy. Address: 67 Riverside Dr, New York, N.Y. 10024.

HIRSCHMAN, PROF. ALBERT O, b. Berlin, Germany, Apr. 7, 15; nat; m. 41; c. 2. ECONOMICS. Dipls, Paris, 35; London Sch. Econ, 35-36; Ph.D.(econ. sci), Univ. Trieste, 38; California, Berkeley, 41-43. Economist, Fed. Reserve Bd, 46-52; econ. & financial adv, Nat. Planning Bd, Bogotá, Colombia, 52-54; econ. consult, Bogotá, 54-56; res. prof. econ, Yale, 56-58; Irving Fisher res. prof, 56-57; prof. int. econ. rels, Columbia, 58-64; POLITICAL ECON, HARVARD, 64-67, LITTAUER PROF, 67- Rockefeller fel, 40-42; dir. Latin Am. Proj, Twentieth Century Fund, 59-63. Consult, Rockefeller Found, 57-58; Rand Corp, 58- Mem. Coun. Foreign Rels, 61- U.S.A, 43-45, Sgt. Econ. Asn. Structure of world trade and international economic organization; development planning and project analysis in Latin America; economic policy making in developing countries. Publ: Strategy of economic development, Yale, 58; Journeys toward progress, 20th Century, 63; Development projects observed, Brookings, 67. Address: Littauer Center, Harvard University, Cambridge, Mass. 02138.

HIRSCHMAN, DR. MAX ABRAHAM, b. Hudson, N.Y, Nov. 9, 16; m. 49; c. 4. ECONOMETRICS. B.S, City Col. New York, 38, M.S, 40; J.D, George Washington, 47, LL.M, 48. Tech. adv, War Prod. Bd, 42-45; economist, Off. Price Admin, 45-47; chief legal adv, Naval Govt. of Guam, 48-51; attorney, Off. Price Stabilization, 51-53, dir. res. & statist, Unemploy. Compensation Bd, 53-54; head analyst, directorate of procurement & prod, Wright-Patterson Air Force Base, Ohio, 54-56; mathematician, Rand Corp. & Syst. Develop. Corp, Calif, 56-58; res. dir, res. & doctrine dept, U.S. Army Logistics Mgt. Center, Ft. Lee, Va, 58-60; chief, personnel & logistics br, U.S. Army Strategy & Tactics Anal. Group, 61-63; dir. opers. res. off, hq, Alaskan Command, 63-65; dir. cost, econ. & statist. anal. div, weapon systs. anal. off, U.S. Dept. Navy, 65-67; BR. MGR. OPERS. RES, SYSTS. ANAL. DIV, NAVAL FACILITIES ENG, 67- Lectr, Catholic Univ, 50; Univ. Alaska, 64-66. Consult, Inter-Am. Develop. Assocs, Inc, 52-53. Econ. Asn; Statist. Asn; Opers. Res. Soc. Military operations research and cost effectiveness analysis of Navy facilities planning; mathematical modeling of stock market fluctuations for prediction purposes. Publ: Communication techniques for use with automation equipment; co-auth, Analysis of extended self-sufficiency of typical army units & History of hardwood lumber price regulations under the Office of Price Administration. Address: Naval Facilities Engineering Command, Yards & Docks Annex, Washington, D.C. 20390.

HIRSCHMAN, DR. WILLIAM, b. Brooklyn, N.Y, June 14, 24; m. 50; c. 3. PSYCHOLOGY. B.S.S, City Col. New York, 48; M.A, Columbia, 49, Ph.D. (psychol), 53. Clin. psychologist, VET. ADMIN. HOSP, Lyons, N.J, 53-57, chief counseling psychol, 57-65, DIR. PROG. EVAL. RESTORATION CENTER, EAST ORANGE, 65- Hosp.C, U.S.C.G, 42-46. Psychol. Asn. Personality theory and research in rehabilitation. Publ: Relationship of written communication and interpersonal involvement in schizophrenia. Address: 517 Stony Brook Dr, Somerville, N.J. 08876.

HIRSH, DR. IRA J(EAN), Psychol, see 11th ed, Phys. & Biol. Vols.

HIRSH, PROF. JOSEPH, Prev. Med, see 11th ed, Phys. & Biol. Vols.

HIRSHBERG, DR. RICHARD I(RWIN), b. Worcester, Mass, Jan. 16, 24; m. 48; c. 3. ANTHROPOLOGY, SYSTEMS ANALYSIS. B.A, Oberlin Col, 48; Maxwell fel, Syracuse, 54-55, Ph.D.(anthrop), 58. Physicist underwater sound res. & develop, Naval Res. Lab, D.C, 48-49; instr. sociol. & anthrop, Syracuse, 52-54, asst. prof. anthrop, 58-59; engr, transistor res. & develop, Gen. Elec. Electronics Park, N.Y, 55-57; head personnel subsyst. group, Syst. Develop. Corp, N.J, 59-62; mem. res. staff, strategic studies, Hudson Inst, N.Y, 62-63; SR. RES. ANTHROPOLOGIST, MGT. & SOC. SYSTS. PROGS, STANFORD RES. INST, 63- U.S.A.A.F, 42-45, 1st Lt. Fel. Anthrop. Asn. Social and operations analysis of complex systems; planned social change; technological adaptation; civil rights and equal opportunity; strategic affairs; civil defense; personnel subsystems; cultural change in Latin America; kinship systems. Address: Stanford Research Institute, 333 Ravenswood Ave, Menlo Park, Calif. 94025.

HIRSHLEIFER, DR. JACK, b. Brooklyn, N.Y, Aug. 26, 25; m. 46; c. 2. ECONOMICS. S.B, Harvard, 45, A.M, 48, fel, 48-49, Ph.D.(econ), 50. Lectr, California, Los Angeles, 50; asst. prof. bus. econ, Chicago, 55-58, assoc. prof, 58-60; ECON, CALIFORNIA, LOS ANGELES, 60-62, PROF, 62- Fel, Chicago; soc. scientist, Rand Corp, 49-55, consult, 55- U.S.N.R, 43-46, Lt.(jg). Econ. Asn. Economic theory; military economics and war potential; business economics. Publ: Co-auth, Water supply: economics, technology, and policy; auth, On the theory of optimal investment decision, J. Polit. Econ; On the economics of transfer pricing, J. Bus. Address: Dept. of Economics, University of California, Los Angeles, Calif. 90024.

HIRST, DR. WILMA ELLIS, b. Shenandoah, Iowa, July 6, 14; m. 35; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, Colo. State Col, 48, Ed.D.(ed. psychol, guid), 54; M.A, Wyoming, 51. Teacher, pub. schs, Wyo, 45-48, remedial reading instr, 48-54; assoc. prof. ed. & dir. lab, Nebr. State Teachers Col. (Kearney), 54-56; head spec. ed. & sch. psychologist, pub. schs, Wyo, 56-57, coordinator guid. & sch. psychologist, 57-66; DIR. RES, SCH. DIST. NO. 1, LARAMIE COUNTY, 66- Coop. res. grant, 66-69; summers, vis. prof, Southern California, 57, Omaha, 58; Oklahoma, 59, 61; Nebraska, 60; Wyoming, 62, 64. Mem. Wyo. State Bd. Psychologist Exam, secy, 65-68. Psychol. Asn; Personnel & Guid. Asn. Identification of and treatment for reading disability problems; means of determining potentialities of gifted pupils and utilization of their full capabilities. Publ: Know your school psychologist. Address: 3458 Green Valley Rd, Cheyenne, Wyo. 82001.

HIRT, DR. HOWARD F(RANKLIN), b. New York, N.Y, Aug. 7, 24; m. 49; c. 1. GEOGRAPHY. Fulbright scholar, India, 52-53; Ph.D.(geog), Syracuse, 55. Lectr. GEOG, Muslim Univ, India, 53; instr, Missouri, 54-55, asst. prof, 55-62, assoc. prof, 62, chmn. dept, 61-62; asst. prof, Boston, 62-66; ASSOC. PROF, MASS. STATE COL. BRIDGEWATER, 66- Pop. Coun. & Univ. Mo. Res. Coun. grants, India, 60-61. Consult, Nat. Atlas Proj, U.S. Geol. Surv, 64-65. U.S.N, 43-46, Lt. Asn. Am. Geog; Am. Geog. Soc; Asn. Asian Studies; Nat. Coun. Geog. Ed. Urban and population geography; southern Asia. Publ: Co-auth, Institutions of higher education, by states with congressional districts, Dept. Geog, Boston Univ, 64; auth, South Indian cultural dominant, Bombay Geog. Mag; co-auth, Fire in tropical forests and grasslands, U.S. Army Labs, 66. Address: Dept. of Earth Sciences & Geography, Bridgewater State College, Bridgewater, Mass. 02324.

HIRT, DR. MICHAEL LEONARD, b. Poland, Feb. 19, 34; nat; m. 46. CLINICAL PSYCHOLOGY. B.A, Drake, 54; M.S, Iowa State, 55, Ph.D, Nebraska, 58. Intern clin. psychol, Walter Reed Army Hosp, Wash, D.C, 57-58; chief clin. psychologist, Ment. Hyg. Consult. Serv, S.C, 58-60; Directorate Ment. Hyg, Kans, 60-62; chief res, dept. rehab, Nat. Jewish Hosp, Denver, 62-64; asst. prof. PSYCHOL, sch. med, Marquette, 64-65; assoc. prof. & sr. res. assoc, col. med, Cincinnati, 65-67; ASSOC. PROF, KENT STATE, 67- U.S.A, 57-, Capt. Psychol. Asn. Clinical research; psychosomatic medicine; projective techniques. Publ: Rorschach science: readings in theory and method; Psychology as a vocation and profession; Psychological and allergic aspects of asthma, C.C. Thomas. Address: 700 Ivan Dr, Kent, Ohio 44240.

HIRTZEL, DR. RICHARD D, b. Chicago, Ill, Feb. 1, 29; m. 64; c. 1. POLITICAL SCIENCE. B.S, Brigham Young, 56, M.S, 62; Ph.D.(polit. sci), Utah, 67. Supvr, off. spec. courses & conf, Brigham Young, 57-61; ASST. PROF. POLIT. SCI, WINONA STATE COL, 66- U.S.A, 50-53, Res, 53-, Maj. Polit. Sci. Asn. Indonesia and its economic and military aid from the United States. Address: 1515 W. Fifth, Winona, Minn. 55987.

HISCOCKS, PROF. CHARLES RICHARD, b. London, Eng, June 1, 07. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Oxford, 29, M.A, 33; D.Phil, Berlin, 35. Head modern hist. & econ, Marlborough Col, 39-40; Brit. Coun. rep, cultural rel, Austria, 46-49, S.India, 49-50; prof. polit. sci. & int. rel. & head dept, Manitoba, 50-64; PROF. INT. RELS, SUSSEX, 64- U.K. mem, sub-cmn. prevention discrimination & protection minorities, UN, 53-62; mem. nat. res. cmt, Can. Inst. Int. Affairs, 61-; Royal Inst. Int. Affairs, Gt. Brit, 61- R.M, 40-45, Lt. Col. Political developments in postwar Austria, Western Germany and Poland; development of international institutions. Publ: Poland: bridge for the abyss?, Oxford Univ, 63; The Adenauer era, Lippincott, 66; Germany revived, Gollancz, Eng, 66. Address: Arts Bldg, University of Sussex, Falmer, Brighton, Sussex, Eng.

HITCH, DR. C(HARLES) J(OHNSTON), b. Boonville, Mo, Jan. 9, 10; m. 42; c. 1. ECONOMICS. B.A, Arizona, 31, LL.D, 62; Rhodes scholar, Oxford, 32-35, Medley scholar, 33-35, B.A, 34, M.A, 38; hon. D.Sc, Drexel Inst, 63; hon. LL.D, Pittsburgh, 68 & Missouri, 68. Praelector & tutor, Queens Col, Oxford, 35-48; chief econ. div, Rand Corp, 48-61; asst. secy, U.S. Dept. Defense, 61-65; PROF. ECON, CALIFORNIA, BERKELEY, 65-, PRES, 68-, v.pres. bus. & finance, 65-66, v.pres. univ. admin, 66-68. Economist, mission econ. affairs, U.S. Embassy, London, 41-42; planning cmt, War Prod. Bd, 42-43; Off. Strategic Serv, 43-45; chief stabilization controls div, Off. War Mobilization & Reconversion, 45-46; vis. prof, São Paulo, 47; California, Los Angeles, 49, 50; Yale, 57. Ed, Oxford Econ. Papers, 41-48. Trustee, Resources Future, Inc, 66- Mem. res. adv. bd, Cmt. Econ. Develop; Univs. Nat. Bur. Cmt. Econ. Res. Fel. AAAS; Soc. Pub. Admin; fel. Am. Acad. Arts & Sci; Am. Econ. Asn; Economet. Soc; Opers. Res. Soc.(pres, 59-60); Royal Econ. Soc. Economics of government expenditure; economic theory. Publ: Co-auth, Economics of defense in the nuclear age; auth, Sub-optimization in operations problems, Opers. Res; co-auth, Price theory and business behavior, Oxford Econ. Papers. Address: University Hall, University of California, Berkeley, Calif. 94720.

HITCH, DR. THOMAS K(EMPER), b. Boonville, Mo, Sept. 16, 12; m. 40; c. 4. ECONOMICS. B.A, Stanford, 34; Ph.D.(econ), London, 37; M.A, Columbia, 44. Mem. faculty econ. & int. rels, Stephens Col, 37-42; acting head current bus. res. sect, U.S. Dept. Commerce, 42-43; labor economist, Vet. Emergency Housing Prog, 46-47; President's Coun. Econ. Adv, 47-50; dir. res. Hawaii Employers Coun, 50-59; V.PRES. & DIR. ECON. RES, FIRST NAT. BANK HAWAII, 59- Mem. staff, spec. study commodity mkts, U.S. Dept. Agr, 40; dir. econ. stabilization, State Civil Defense Agency, Hawaii, 61- Trustee, Tax Found, Hawaii, 54-; Leahi Hosp, 59-; mem. bd. dirs, Hawaiian Tel. Co, 60-; chmn, Mayor's Adv. Cmt. Finance; mem, State Adv. Bd. Labor & Indust. Rels. U.S.N.R, 43-46, Lt. Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn; Planning Asn; Asn. Bus. Econ; Arbit. Asn; Acad. Polit. Soc. Sci. Publ: Economics for the 1960's; The state of Hawaii's finances; Hawaii: island paradise with economic potential, Bus. Horizons. Address: First National Bank of Hawaii, 161 S. King St, Honolulu, Hawaii 96813.

HITCHCOCK, PROF. ARTHUR A(LLEN), b. Albany, N.Y, Nov. 6, 10; m. 41; c. 2. PSYCHOLOGY. A.B, Wesleyan, 32; Ed.M, Harvard, 34; Ph.D.(ed. psychol), Yale, 48. Lectr. guid. & asst. dir. guid. center, Harvard, 46-49; prof. ed. psychol. & dir. jr. div. & counseling serv, Nebraska, 49-55; exec. dir, Am. Personnel & Guid. Asn, 55-66; PROF. ED, STATE UNIV. N.Y. ALBANY, 66- Prof. lectr, Temple; George Washington; Maryland; Col. William & Mary; Washington (Seattle); Mich. State; Nova Scotia Dept. Ed. Consult, Personnel Servs, 55-; P.R. Dept. Ed, 66-; U.S. Off. Ed, 66- Mem. cmt. young workers, U.S. Dept. Labor, 58-61, fed. adv. coun, 58-63, co-dir. career planning superior girls, 60-64; mem. ed. cmt, President's Cmt. Employ. Handicapped, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol, 50; ed. award, Nat. Asn. Colored Women's Clubs, 64. U.S.A, 43-46, Maj. Fel. AAAS; fel. Psychol. Asn; Personnel & Guid. Asn; Voc. Guid. Asn; Ed. Res. Asn; Soc. Psychol. Study Social Issues. Adolescents; social change; deprived and gifted; inter-disciplinary approach in guidance, counseling and psychology. Publ: Pupil personnel services and Title III (ESEA), U.S. Govt,

67; Guidance in U.S, Int. Voc. Guid. Asn. J; Guidance, In: Compton's Encyclop. Address: Education Building, State University of New York at Albany, 1400 Washington Ave, Albany, N.Y. 12203.

HITCHCOCK, DR. CHARLES BAKER, b. Boston, Mass, Mar. 16, 06; m. 31; c. 3. GEOGRAPHY. A.B, Harvard, 28; A.M, Columbia, 33; hon. D.Sc, Temple, 54. Mem. staff, Am. Geog. Soc, 30-50, dir, 53-66; RETIRED. Mem, Am. Mus. Natural Hist. exped, South. Venezuela, 28-29; Phelps expeds, Venezuela, 47-49, 51, 53-55. Mem, Cmn. Cartog, Caracas, 46, Buenos Aires, 48, Santiago, 50, Ciudad Trujillo, 52. Mem, Army Sci. Adv. Panel. AAAS; Asn. Am. Geog.(treas, 48); Am. Geog. Soc; N.Y. Acad. Sci; Arctic Inst. N.Am; cor. mem. Geog. Soc. Lima; hon. mem. Acad. Sci, Venezuela; hon. cor. mem. Royal Geog. Soc. Cartography and geography of South America. Publ: Ed, Map of Hispanic America. Address: Stonehill Rd, Pound Ridge, N.Y. 10576.

HITCHCOCK, PROF. JOHN T(HAYER), b. Springfield, Mass, June 29, 17; m. 47; c. 3. ANTHROPOLOGY. B.A, Amherst Col, 39; Field fel. & M.A, Chicago, 41; M.A, Connecticut, 51; Ford Found. fel. & Ph.D.(anthrop), Cornell, 56. Instr. Eng. lit, Amherst Col, 46-48; teacher, Putney Sch, 48-49; asst. sociol, Cornell, 51-53, sta. dir. ANTHROP, India prog, 53-55; acting asst. prof, California, Berkeley, 57-58, asst. prof, Los Angeles, 58-63, assoc. prof, 63-66; PROF, WISCONSIN, MADISON, 66- Nat. Sci. Found. res. grant, Nepal, 60-61 & Nat. Inst. Ment. Health res. grant, 66-68. U.S.N, 41-45. Anthrop. Asn; Ethnol. Soc; Asn. Asian Studies. Peasant societies and cultures in North India and Nepal; ecological variation and related types of integration, especially political and legal aspects. Publ: The Magars of Banyan Hill; Sickle and Khukuri; co-auth, The Rajputs of Khalapur. Address: Dept. of Anthropology, University of Wisconsin, Madison, Wis. 53706.

HITCHCOCK, WILBUR W(ILKINS), b. Camden, N.J, July 31, 22; m. 44. POLITICAL SCIENCE. B.S, Pennsylvania, 43, M.S, 50, M.A, 51. Br. pub. affairs officer, U.S. Info. Serv, Taegu, Korea, 47-48; for. affairs intern & staff asst, U.S. DEPT. STATE, 52-53, staff asst, U.S. Info. Agency, 53-54, v.consul, Liberia, 54-56, Laos, 58-60, secy. & consul, Thailand, 61-63; chmn. Southeast Asia area studies, For. Serv. Inst, Wash, D.C, 63-65, officer-in-charge SEATO Affairs, 65-67, CONSUL, U.S. CONSULATE GEN, QUEBEC, 67-, SECY, U.S. DIPLOMATIC SERV, 54- U.S.A.F, 42-47, Res, 47-57, Maj. Polit. Sci. Asn; Asn. Asian Studies; Acad. Polit. & Soc. Sci; Asia Soc. International relations; Southeast Asian area studies. Publ: North Korea jumps the gun, Current Hist, 3/51. Address: Foreign Service Mail Room, U.S. Dept. of State, Washington, D.C. 20520.

HITCHINGS, G(EORGE) P(HILIP), b. Waterville, Maine, Nov. 22, 16; m. 39; c. 3. ECONOMICS. B.A, Maine, 37; fel, Nat. Inst. Pub. Affairs, 37-38; American Univ, 37-39. Econ. asst, Fed. Reserve Bd, 37-39; economist, Fed. Reserve Bank, N.Y, 39-46; mgr. econ. anal. dept, Ford Motor Co, 47-60; V.PRES. ECON. RES. & FINANCIAL RELS, AM. AIRLINES, INC, 60- Consult, Off. Defense Mobilization, 51-52; tech. consult, cmt. domestic econ, Bus. Coun, 65- U.S.A.A.F, 44-46, Lt. Econ. Asn; Finance Asn; Statist. Asn. Business cycle analysis; economics of the automotive and airline industries. Publ: Co-auth, The business outlook, 1956-67, Nat. Indust. Conf. Bd; contrib, Determining the business outlook. Address: American Airlines, Inc, 633 Third Ave, New York, N.Y. 10017.

HITCHMAN, NORMAN A(LLENBY), Opers. Res, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HITCHNER, PROF. DELL G(ILLETTE), b. Kansas City, Mo, Aug. 31, 14. POLITICAL SCIENCE. A.B, Wichita, 36; Gregory scholar, Missouri, 36-37, A.M, 37; univ. fel, Wisconsin, 39-40, Ph.D, 40. Asst. prof. POLIT. SCI, Coe Col, 40-44; assoc. prof, Wichita, 46-47; asst. prof, WASHINGTON (SEATTLE), 47-51, assoc. prof, 51-63, PROF, 63- Am. specialist, U.S. Embassy, London, Eng, 56-57; vis. mem, London Sch. Econ, 56-57. Polit. Sci. Asn. Comparative government. Publ: Co-auth, Modern government; 2nd ed. 65; co-auth, Comparative government and politics, Dodd, 67. Address: Dept. of Political Science, University of Washington, Seattle, Wash. 98105.

HITE, DR. JAMES CLEVELAND, b. Kingsport, Tenn, Apr. 21, 41. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Clemson, 63, Nat. Defense Ed. Act fel. & Ph.D.(agr. econ), 66; Cokesbury fel. & M.A, Emory, 64. Water resources res. asst. AGR. ECON, Clemson, 66; ASST. PROF, Tennessee Tech, 67; CLEMSON, 67- Econ. Asn; Agr. Econ. Asn; Regional Sci. Asn. Water resource economics; human resources and labor economics; regional economic development and planning. Address: Dept. of Agricultural Economics, Clemson University, Clemson, S.C. 29631.

HITES, PROF. ROBERT W(ILLIAM), b. Scottsbluff, Nebr, Mar. 30, 20; m. 45; c. 2. PSYCHOLOGY. A.B, Mercer, 47; M.A, Ohio State, 48, Ph.D.(psychol), 50. Res. assoc. leadership studies, Ohio State, 50-53; soc. psychologist human rels, Human Resources Res. Inst, Maxwell Air Force Base, Ala, 53-54; assoc. prof. psychol. & chmn. dept, Birmingham-South. Col, 54-61, dir. instnl. res, 61-65; PROF. PSYCHOL. & SPEC. ED. & CHMN. DEPT, GREENSBORO COL, 65- U.S.A, 42-45, Capt. AAAS; Psychol. Asn. Attitude and attitude change; values and value integration, especially pertaining to religious values. Publ: Personal and social adjustment in industry; co-auth, Test of the ability of fraternity leaders to estimate group opinion & auth, Change in religious attitudes during four years in college, 65, J. Soc. Psychol. Address: Dept. of Psychology & Special Education, Greensboro College, Greensboro, N.C. 27402.

HITT, DR. HOMER L(EE), b. Comanche, Tex, Apr. 22, 16; m. 39; c. 2. DEMOGRAPHY, SOCIOLOGY. B.S, La. State, 35, M.A, 37; M.A. & Ph.D. (sociol), Harvard, 41. Soc. scientist, bur. agr. econ, U.S. Dept. Agr, 39-41; faculty mem. sociol. & rural sociol, LA. STATE, NEW ORLEANS, 41-44, 45-47, prof. & head dept, 47-63, clin. prof. prev. med, sch. med, 53-54, assoc. dean grad. sch, 54-57, dean, 57-59, v.pres. in charge univ, 59-63, CHANCELLOR, 63- Soc. Sci. Res. Coun. grant, 42; lectr, Atlanta, 50. U.S.N.R, 44-45, Ens. Sociol. Asn; Rural Sociol. Soc; Sociol. Res. Asn; Pop. Asn; Int. Union Sci. Study Pop. Population composition and processes, especially migration; social aspects of health. Publ: Co-auth, The people of Louisiana; Levels and trends in rural mortality, Rural Sociol; Population movements in southern United States, Sci. Monogr. Address: Louisiana State University at New Orleans, Lake Front, New Orleans, La. 70122.

HITT, DR. WILLIAM D(EE), b. Lexington, Ky, Feb. 18, 29; m. 57; c. 4. ENGINEERING & INDUSTRIAL PSYCHOLOGY. B.A, Kentucky, 51; M.A, Ohio State, 54, Ph.D.(psychol), 56. Asst, Ohio State, 53-56; indust. psychologist, Kimberly-Clark Corp, 56-57; res. psychologist & asst. chief, systs. eng. div, BATTELLE MEM. INST, 57-62, CHIEF, BEHAV. SCI. DIV, 62- U.S.A.F, 51-53. Psychol. Asn. Personnel selection; performance evaluation; systems analysis; quantitative methods; application of psychology to industrial, military and social problems; theory, methods, principles, and applications of general psychology. Address: Battelle Memorial Institute, Columbus Labs, 505 King Ave, Columbus, Ohio 43201.

HITTLE, DR. ELIZABETH J(OYCE), b. Dayton, Ohio, Oct. 12, 25. SPEECH PATHOLOGY, AUDIOLOGY. B.S, Akron, 47; M.A, Kent State, 49; Ed.D. (speech path, spec. ed), 63. Teacher, pub. schs, Cleveland & Akron, Ohio, 47-50; instr. SPEECH, AKRON, 50-53, asst. prof, 53-64, assoc. prof, 64-67, PROF, 67-, DIR. SPEECH & HEARING CLIN, 53- Higher Ed. Title VI res. grant, 66-67, Dept. Health, Ed. & Welfare res. grant, Handicapped children, 67-68; Off. Econ. Opportunity, Community Action Coun. res. grant, 67- Communication disorders; language disabilities; psycholinguistics and neurologically based language learning problems. Address: Speech & Hearing Clinic, University of Akron, Akron, Ohio 44304.

HIVELY, DR. WELLS, II, b. Lawrence, Kans, June 1, 31; m. 53; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Harvard, 53, M.A.T, 56, Ph.D.(ed. psychol), 61. Teacher, high sch, Calif, 56-57; res. assoc. programmed instr, Harvard, 61-63; asst. prof. ED. PSYCHOL, MINNESOTA, MINNEAPOLIS, 63-66, ASSOC. PROF, 67- U.S.A, 53-55. Psychol. Asn; Ed. Res. Asn. Learning; experimental analysis of instruction; educational measurement. Publ: Programming stimuli in matching to sample, J. Exp. Anal. Behav, 62; A framework for the analysis of elementary reading behavior, Am. Ed. Res. J, 66. Address: Dept. of Educational Psychology, University of Minnesota, Minneapolis, Minn. 55455.

HIZ, PROF. HENRY, b. Leningrad, Russia, Oct. 8, 17. LINGUISTICS. Warsaw, 37-39; lic, Brussels, 45-46; Ph.D.(philos), Harvard, 48. Adj. math, Warsaw, 49-50; lectr, Lodz, 50; instr. philos, Brooklyn Col. & N.Y. Univ, 50; math, Utah, 51-53; asst. prof, Pa. State, 54-59; assoc. prof. LING, PENNSYLVANIA, 60-63, PROF, 63-, lectr. philos, 51, 53-55. Asn. Symbolic Logic; Philos. Asn; Math. Asn; Math. Soc; Ling. Asn. Mathematical logic; foundation of mathematics; applications of logic and algebra to linguistics and to methodology of humanities; formal linguistics; philosophy of science. Publ: Extendible sentential calculus, J. Symbolic Logic; Modalities and extended systems & Questions and answers, J. Philos. Address: Dept. of Linguistics, University of Pennsylvania, Philadelphia, Pa. 19104.

HJELM, DR. HOWARD F(RANZ), b. Cambridge, Minn, June 16, 27; m. 50; c. 6. PSYCHOMETRICS. B.A, Augsburg Col, 51; M.Ed, Macalester Col, 53; Ed.D, George Peabody Col, 59. Teacher, pub. schs, Minn, 51-52; tutor math. & child psychol, Kinampanda Teacher Training Col, 53-57; res. coordinator, coop. res. prog, U.S. Off. Ed, 59-61; ed. res. specialist, div. ed, Pan Am. Union, 61-63; res. coordinator coop. res. prog, U.S. OFF. ED, 63-64, dir. basic res. br, 64-65, chief res. br, div. elem-sec. ed. res, 65-66, DIR. DIV. ELEM-SEC. ED. RES, 66- V.chmn. task group 4 ed. res, Proj. Aristotle, 67- U.S.N, 45-47. AAAS; Psychomet. Soc; Nat. Coun. Measurement in Ed; Ed. Res. Asn. Statistical and educational research methodology; test construction; research administration; early childhood education; teacher training. Publ: Applications of modern data processing at the Office of Education, Harvard Ed. Rev; co-auth, Empirical investigation of the effects of nonormality upon the sampling distributions of the product moment correlation coefficient & Factors related to college attendance, Coop. Res. Monogr. Address: 3457 Mildred Dr, Falls Church, Va. 22042.

HJELM, DR. VICTOR STEWART, b. Denver, Colo, July 6, 39; m. 61; c. 1. POLITICAL SCIENCE. B.S, U.S. Naval Acad, 61; Ph.D.(polit. sci), Colorado, 67. ASST. PROF. GOVT, SOUTHERN METHODIST, 66- U.S.N, 61-63, Ens. Polit. Sci. Asn. Domestic political and legislative process. Address: Dept. of Government, Southern Methodist University, Dallas, Tex. 75222.

HO, DR. ALFRED K(UOLIANG), b. Peking, China, Mar. 12, 19; U.S. citizen; m. 44, c. 4. ECONOMICS. B.A, Yenching Univ, China, 41; Ph.D, Princeton, 44; Nat. Sci. Found. fel, California, Los Angeles, 65-66, M.A, 66. Asst. prof, Yenching Univ, China, 46-48; course supvr. Chinese culture, Defense Lang. Inst, Calif, 49-51, course developer, 53-58; assoc. res. Chinese econ, Stanford Res. Inst, 51-53; ASSOC. PROF. ECON, Los Angeles City Col, 58-67; WESTERN MICHIGAN, 67- Lectr, California, Los Angeles, summer, 66 & spring, 67, sr. lectr, Southern California, 66-67; lectr, Calif. State Col. Los Angeles, 67. Econ. Asn. Far Eastern economics; mathematical economics. Publ: The Far East in world trade, Praeger, 67; The grand council in The Ch'ing dynasty, Far East. Quart, 52. Address: Dept. of Economics, Western Michigan University, Kalamazoo, Mich. 49001.

HO, DR. C(HING) J(U), b. Tientsin, China, July 26, 01; nat; m. 29; c. 2. PSYCHOLOGY. B.A, Antioch Col, 24; M.A, Columbia, 25, Ph.D, 27. Res. psychologist, R.H. Macy & Co, 27-29; prof. psychol. & ed, Cheeloo Univ, China, 29-30; dir. res, Nat. Asn. Voc. Ed, 32-39; personnel, Oriental Corp, 41-49; ASSOC. PROF. PSYCHOL, TAMPA, 50-, DIR. TESTING, 61- Lectr, Kwang Hua, Great China, Fuh Tan & Shanghai Univs, 32-39; Nat. Sci. Found. res. grants, 63 & 66. UN recruitment consult, N.China, 48-49. Fel. Psychol. Asn. Counseling psychology; personnel. Publ: Personnel studies of scientists in the United States, Pub. Teachers Col, Columbia Univ; Vocational guidance; Personnel management. Address: Dept. of Psychology, University of Tampa, Tampa, Fla. 33606.

HO, PROF. FRANKLIN L(IEN), b. China, Mar. 24, 95. ECONOMICS. A.B, Pomona Col, 22; Ph.D, Yale, 26. Prof. ECON, Nankai Univ, China, 26-29, dir, Inst. Econ, 29-49; prof, COLUMBIA, 49-60, EMER. PROF, 60- China rep, econ. & employ. cmn. & pop. cmn, Econ. & Soc. Coun, UN; chmn. res. cmt, China coun, Inst. Pac. Rels, 29-37. Econ. Asn; Chinese Acad. Sci. Structure of the economy of China; public finance. Address: East Asian Institute, Columbia University, New York, N.Y. 10027.

HO, DR. SAMUEL PAO-SAN, b. Tientsin, China, Nov. 19, 36; U.S. citizen; m. 65; c. 1. ECONOMICS. B.S.E, Princeton, 59; Columbia, 59-60; M.A, Yale, 61, Ph.D.(econ), 65. Res. economist, YALE, 64-66, ASST. PROF. ECON. DEVELOP, 66- Econ. Asn. Economic development of Taiwan; economy of China. Publ: Development alternatives—the case of Taiwan, Yale Econ. Essays, spring 65. Address: Economic Growth Center, Yale University, 52 Hillhouse Ave, New Haven, Conn. 06520.

HO, DR. TING-JUI, b. Hsinchu, Taiwan, Nov. 20, 24; m. 54; c. 2. ANTHROPOLOGY. B.A, Taiwan, 43; Harvard, 60-62, Ph.D.(folklore), Indiana, 67. Instr. ANTHROP, Taiwan, 55-63, ASST. PROF, FLA. STATE, 67- Soc. Sci. Res. Coun. res. grant, 66-67. Anthrop. Asn; Asn. Asian Studies; Soc. Asian Folklore. Asian folklore, cultures and peoples of China, Japan and Southeast Asia; communist manipulation of folklore materials for propaganda purpose in Red China. Publ: A study of the Atayal head-hunters of Taiwan, Bull. Col. Arts, Taiwan Univ, 4/56; A study of tattooing among the Formosan aborigines, Bull. Dept. Archaeol. & Anthrop, Taiwan Univ, 11/58; East Asian themes in folktales of the Formosan aborigines, Asian Folklore Studies, 64. Address: Dept. of Anthropology, Florida State University, Tallahassee, Fla. 32306.

HO, DR. WAI-CHING, b. Hong Kong, Aug. 18, 24; m. 51; c. 2. PSYCHOLOGICAL MEASUREMENT, STATISTICS. B.A, Lingnam Univ, 47; M.A, Columbia, 49; Ed.D.(ed. & psychol. measurement, statist), Harvard, 57. Asst, Harvard, 55, res. assoc. test construct, 57-59; programmer, Ed. Res. Corp, 56-57; statistician, Personnel Res. & Develop. Corp, 59-60; instr. ed. measurement & statist, John Carroll, 60-61; res. assoc. ed. achievement tests, Ed. Res. Coun. Greater Cleveland, 62-64, asst. dir, eval. & testing, 64-65; DIR. EVAL. & TESTING, ED. RES. COUN. AM, 66- Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed; Psychomet. Soc. Evaluation of new curriculum programs, including formulation of experimental design, development of evaluative instruments and new research techniques required in the evaluation. Publ: Co-auth, Harvard-MLA tests of Chinese language, pictorial-auditory comprehension, Ed. Testing Serv, 59; Greater Cleveland mathematics tests, grades 1-3, 63, grades, 4-6, 65, Sci. Res. Assocs. Address: Educational Research Council of America, Rockefeller Bldg, Cleveland, Ohio 44113.

HOADLEY, DR. ARTHUR BRUCE, Math. Statist, see Suppl. V to 11th ed, Phys. & Biol. Vols.

HOADLEY, DR. WALTER E(VANS), b. San Francisco, Calif, Aug. 16, 16; m. 39; c. 2. ECONOMICS. A.B, California, 38, fel, 38-41, M.A, 40, Ph.D.(econ), 46; hon. D.C.S, Franklin & Marshall Col, 63. Res. economist, California, 38-41, indust. mgt. supvr, war training off, 41-42; sr. economist, Fed. Reserve Bank Chicago, 42-49; economist, ARMSTRONG CORK CO, 49-54, treas, 54-66, v.pres, 60-66, DIR, 62-; SR. V.PRES. & CHIEF ECONOMIST, BANK AM. NT&SA, SAN FRANCISCO, 66- Adv, civil affairs training sch, Chicago, 45; mem. faculty, sch. banking, Wisconsin, 45-49, 55, 58-66. Consult, bd. gov, Fed. Reserve Syst, 55; dir, Fed. Reserve Bank Phila, 58-66, dep. chmn, 60-61, chmn, 62-66; chmn, Conf. Chmn. Twelve Fed. Reserve Banks, 66. Mem, White House Rev. Cmt. for Balance Payments Statist, 63-65; bd. overseers, Harvard Col. Econ. Vis. Cmt, 66- Econ. Asn; fel. Statist. Asn.(v.pres, 52-54, pres, 58). Finance Asn.(v.pres, 68); Mkt. Asn; Conf. Bus. Econ.(chmn, 62); Asn. Bus. Econ. Economic forecasting; business finance; economic statistics; government-business relationships in solving economic-social problems. Publ: The importance and problems of business forecasting, In: Determining the business outlook; The urban physical environment and how to humanize it, In: The troubled environment; guidelines for action by the business community, 66; The mood of the United States and the outlook for international expansion and development, In: Doing business in modern Mexico, 67. Address: 300 Montgomery St, San Francisco, Calif. 94120.

HOAG, PROF. C(HARLES) LEONARD, b. Albion, Mich, Nov. 15, 07; m. 41; c. 2. POLITICAL SCIENCE. A.B, Albion Col, 29; State fel, Michigan, 29-30, M.A, 30; fel, Clark, 34-36, Ph.D.(hist, int. rels), 38; summer, Chicago, 33. Instr. hist. & polit. sci, Ill. Wesleyan, 30-34; asst. prof, Springfield Col, 36-42; res. analyst pub. opinion, U.S. Dept. Agr, 42; Off. War Info, 42-43; assoc. mkt. res, Stewart, Dougall & Assocs, N.Y, 43-47; asst. prof. polit. sci, Middlebury Col, 47-48, assoc. prof, 48-50; for. affairs specialist pub. opinion, U.S. Dept. State, 50-52; assoc. prof. contemporary civilization, MIDDLEBURY COL, 52-55, prof. hist. & chmn. dept. contemporary civilization, 55-61, PROF. POLIT. SCI, 61-, faculty res. grants, 64, 65 & 66. Participant, migratory labor surv. Atlantic Coast, U.S. Dept. Agr, summer, 40; res. analyst, Opinion Res. Corp, N.Y, 43-44; field researcher, Am. Inst. Pub. Opinion, 47; Fulbright lectr, Kypungpook Univ. & Chungu & Taegu Cols, Korea, 61-62; assoc. mil. hist, off. chief mil. hist, U.S. Dept. Army, 66-68; Am. Philos. Soc. res. grant, 67-68. Pub. mem, Vt. Adv. Coun, Dept. Employ. Security, 65-; pres, Vt. Coun.World Affairs, 67-U.S.A.R, 49-61, Lt. Col. Polit. Sci. Asn; Asn. Asian Studies. American foreign policy in the Far East; public opinion; American military government in Korea. Publ: American opinion on the navy and the Washington disarmament conference, 1919-22; Preface to preparedness, Am. Coun. Pub. Affairs. Address: P.O. Box 468, Middlebury, Vt. 05753.

HOAG, PROF. LEVERETT P(ADDOCK), b. Moorhead, Minn, Nov. 17, 16; m. 40; c. 4. GEOGRAPHY. B.Ed, Moorhead State Col, 37; M.A, Minnesota, 53, Ph.D.(geog), 58. Asst. prof. GEOG, North. State Teachers Col, 55-56; Kans. State Col, 56-58; MINNESOTA, DULUTH, 58-61, assoc. prof, 61-66, PROF, 66- U.S.N, 45-46. Asn. Am. Geog; Am. Geog. Soc. Agricultural geography, especially of the midwestern United States. Address: Dept. of Geography, University of Minnesota, Duluth, Minn. 55812.

HOAG, DR. MALCOLM W(ILLIAM), b. Toledo, Ohio, Mar. 30, 22; m. 44; c. 1. ECONOMICS. A.B, Ohio State, 42, A.M, 43; Ph.D, Chicago, 50. Asst. prof. econ, Illinois, 48-50; ECONOMIST, U.S. Mutual Security Agency, 50-52; RAND CORP, 52-, acting head econ. dept, 64-65. Lectr. polit. sci, California, Los Angeles, 54, prof, 63-64; vis. prof, Nat. War. Col, 59-60. Consult, U.S. Dept. State, 60. U.S.A.A.F, 43-45. Econ. Asn; Inst. Strategic Studies; Royal Econ. Soc; Opers. Res. Soc. Military systems analysis; international relations and economics. Publ: Nuclear strategic options and European force participation, In: The dispersion of nuclear weapons: strategy and politics, Columbia, 64; Rationalizing NATO strategy, World Polit, 10/64; Increasing returns in military production functions, In: Issues in defense economics, Nat. Bur. Econ. Res, Inc, Columbia, 67. Address: Rand Corporation, 1700 Main St, Santa Monica, Calif. 90406.

HOAGLAND, PROF. H(ENRY) E, b. Ill, May 10, 86. ECONOMICS. A.B. & A.M, Illinois, 10; Wisconsin, 11; Ph.D, Columbia, 17; LL.D, Ohio State, 65. Statistician & economist, State Indust. Cmn, N.Y, 12-16; instr. econ, Illinois, 16-18; chief div. statist, State Pub. Serv. Cmn, N.Y, 18-20; PROF. BUS. FINANCE, COL. COMMERCE, OHIO STATE, 20- Adv, State Dept. Commerce, Ohio, 34; vis. prof, Michigan, 59. Mem, Fed. Home Loan Bank Bd, 34-37. Econ. Asn. Business finance and real estate. Publ: Corporation finance; Real estate principles; Real estate finance. Address: College of Commerce, Ohio State University, Columbus, Ohio 43221.

HOAGLAND, DR. HUDSON, Physiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HOBART, PROF. CHARLES W(ARREN), b. Swatow, China, Aug. 7, 26; U.S. citizen; m. 50. SOCIOLOGY. B.A, Redlands, 50; M.A, Southern California, 51; Ph.D.(sociol), Indiana, 55. From instr. to asst. prof. SOCIOL, Redlands, 54-62; asst. prof, ALBERTA, 62-64, ASSOC. PROF, 64- U.S.N, 44-46. Sociol. Asn. Social organization and psychology; family. Publ: Co-auth, Disagreement, disagreement estimate and non-empathetic imputations for intimacy groups varying from favorite date to married, Am. Sociol. Rev. Address: Dept. of Sociology, University of Alberta, Faculty of Arts & Science, Edmonton, Alta, Can.

HOBART, PROF. GEORGE H(ENRY), b. Newaygo, Mich, Jan. 19, 85. ECONOMICS. A.B, Michigan, 08; Western Reserve, 39-40; A.M, North Carolina, 41, Ph.D, 48; N.Y. Univ, 44. Prof. bus. admin. & head dept, HIGH POINT COL, 45-57, PROF. BUS. ADMIN, EVE. DIV, 59-; vis. prof. econ, Wake Forest Col, 57-64; Guilford Col, 57-66. Mem, Economists' Nat. Cmt. Monetary Policy. Econ. Asn; Acad. Polit. Sci. Economics of industry; dinnerware industry in the United States. Address: 603 W. Farriss Ave, High Point, N.C. 27262.

HOBART, PROF. HELEN W(ELBORN), b. Crewe, Va, Nov. 20, 97; m. 18; c. 4. PSYCHOLOGY, SOCIOLOGY. A.B, Michigan, 19, M.A, 39; summer Danforth fel, 54; Nat. Sci. Found. grant, Colorado, 61, M.A, 66; summer grant, Leiden, 62. Registrar, Hollins Col, 40-41; asst. prof. psychol. & dean of women, Roanoke Col, 41-45; dir. acad. placement, Michigan, 45-47; dean faculty & chmn. psychol. dept, western col. women, Oxford, 47-52; PROF. PSYCHOL. & DEAN WOMEN, ROANOKE, 52-, CHMN. SOCIOL. DEPT, 59- Psychol. Asn; Sociol. Asn. Sutdies in attitude change; Virginia legislators concerning educational provisions in state constitution. Address: Dept. of Sociology, Roanoke College, Salem, Va. 24153.

HOBBAH, DR. REGINALD V(YVYAN), b. Walton, N.S, Mar. 19, 01; nat; m. 35. ECONOMICS. B.S, Pittsburgh, 31, M.A, 34; Ph.D.(econ. & bus), Chicago, 44. From asst. to instr, Pittsburgh, 32-36; Iowa, 36-37; from instr. to asst. prof, Maine, 37-44; economist, War Prod. Bd, 42-44; transportation economist, Air Transport Asn. of Am, 44-47; prof. transport, Rutgers, 47-54; opers. analyst, U.S. Dept. Air Force Hq, 54-64; prin. economist, systs. div, Bendix Corp, 64-65; sr. economist, Nat. Bur. Standards, 65-67; RES. SCIENTIST, CONN. RES. CMN, HARTFORD, 67- Consult, Off. Secy. Defense, 51; Interstate Commerce Cmn, 51. Econ. Asn; Opers. Res. Soc. Transportation and public utilities; regional economics; systems analysis. Publ: Railroad transit privileges. Address: 7 Alder Rd, Simsbury, Conn. 06070.

HOBBS, DR. ALBERT H(OYT), b. Plymouth, Pa, Oct. 19, 10. SOCIOLOGY. A.B, Pa. State Col, 29; Ph.D, Pennsylvania, 41. Instr. SOCIOL, PENNSYLVANIA, 38-41, asst. prof, 46-58, ASSOC. PROF, 58- U.S.N.R, 43-46, Lt. Sociol. Asn. Differentials in internal migration. Publ: Claims of sociology: a critique of textbooks; Social problems and scientism; The vision and the constant star. Address: Dietrich Hall, University of Pennsylvania, Philadelphia, Pa. 19104.

HOBBS, CECIL, Southeast Asian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOBBS, DR. DARYL JEROME, b. Iowa Falls, Iowa, Jan. 1, 6, 34; m. 54; c. 4. SOCIOLOGY, RURAL SOCIOLOGY. B.S, Iowa State, 56, M.S, 60, Ph.D. (sociol), 63. Asst. prof. exten. sociol, Iowa State, 61-64; ASSOC. PROF. RURAL SOCIOL. & CHMN. DEPT. SOCIOL. & RURAL SOCIOL, MISSOURI, 67- Co-investr, U.S. Pub. Health Serv. res. grant, 66-68. Mem. task force resource develop, Fed. Exten. Serv, 66-67. U.S.A, 57, Res, 57-67, Capt. Sociol. Asn; Rural Sociol. Soc. Community organization, social change, attitude and value measurement. Publ: The study of change as a concept in rural sociology, Theory Into Practice, 2/66; co-auth, Traffic flow and population change, Bus. & Govt. Rev, 5/67 & Congruence between aspirations and capabilities of youth in a low-income area, Rural Sociol, 9/67. Address: 105 Sociology Bldg, University of Missouri, Columbia, Mo. 65201.

HOBBS, DR. DOUGLAS S(TILLMAN), b. Rochester, N.Y, Feb. 17, 33; m. 64. POLITICAL SCIENCE. A.B, Harvard, 55, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, CALIFORNIA, LOS ANGELES, 64- Consult, Assembly Cmt. on Elections & Reapportionment, 64-65. U.S.N, 55-58, 61-62, Lt. Comdr. Polit. Sci. Asn. American constitutional history. Publ: Co-auth, Reapportionment in California, 65 & Courts and legislatures, 65, Calif. Legis. Address: Dept. of Political Science, University of California, Los Angeles, Calif. 90024.

HOBBS, DEAN EDWARD HENRY, b. Selma, Ala, Jan. 14, 21; m. 43; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, North Carolina, 43; M.A, Alabama, 47; South. Regional Training Prog. scholar, 47-48; Ph.D, Harvard, 51. Instr, Alabama, 46-47; asst. prof. polit. sci, Mississippi, 49-52, assoc. prof, 52-56, acting asst. dir. pub. admin. res, 52-53, asst. dir, 54-57, prof. polit. sci, 56-67, acting chmn. dept. res. in bus. & pub. admin, 57-59, chmn. dept, 59-61, chmn. dept. res. in bus. & govt, 61-67; DEAN SCH. ARTS & SCI, AUBURN, 67- Summer fel, Inst. Soc. Geront, 59. Consult, Miss. Children's Code Cmn. for White House Conf. Children & Youth, 57; Miss. Coun. Aging, 59; consult. & analyst, employee attitude surv, Le Tourneau, Inc, Vicksburg, Miss, 66; consult, Holiday Hills, Bruce, Miss, 66; Nat. Sheriff's Study, U.S. Dept. Justice, 67- Del, Nat. Leadership Training Inst, White House Conf. Aging, 59. U.S.N, 43-46, Res, 46-, Capt. Polit. Sci. Asn; Soc. Pub. Admin. Municipal, urban, county and state government affairs; President of the United States; national executive reorganization; constitutional analysis; personnel management; education; highway finance; United States; Mississippi; gerontology. Publ: Behind the President: study of executive office agencies; Legislative apportionment in Mississippi; Yesterday's constitution today: analysis of the Mississippi constitution of 1890. Address: School of Arts & Sciences, Auburn University, Auburn, Ala. 36830.

HOBBS, PROF. G(EORGE) EDGAR, Psychiat, see 11th ed, Phys. & Biol. Vols.

HOBBS, DR. MILTON, b. Baltimore, Md, Dec. 6, 27; m. 53; c. 3. POLITICAL SCIENCE. A.B, Maryland, 52; fels, Northwestern, 56, 57, M.A, 57, Ph.D. (polit. sci), 61. Lectr. POLIT. SCI, Indiana, 59-61, asst. prof, 61-65; vis. lectr, Illinois, 65-66, 67-68; ASSOC. PROF, INDIANA, 66- Am. Philos. Asn. res. grant, summer, 64. U.S.N, 46-48. Polit. Sci. Asn. Methodology; philosophy of science; psychology and sociology of political behavior; American politics. Address: Dept. of Government, College of Arts & Sciences, Indiana University, Bloomington, Ind. 47401.

HOBBS, DR. NICHOLAS, b. Greenville, S.C, Mar. 13, 15; m; c. 1. PSYCHOLOGY. A.B, The Citadel, 36; M.A, Ohio State, 39, Ph.D.(psychol), 46. Asst. prof. ed, teachers col, Columbia, 46-48, assoc. prof, 48-50; chmn. dept. psychol, La. State, 50-51; prof. & chmn. div. human develop, GEORGE PEABODY COL, 51-65, DIR, KENNEDY CENTER RES. ED. & HUMAN DEVELOP, 65-; PROVOST, VANDERBILT, 67- Vis. prof, Harvard, 54; dir. res, Peace Corps, 61-65; fel, Center Adv. Study Behav. Sci, 66-67. Consult, Vet. Admin, 48- Mem, Nat. Adv. Child Health & Human Develop. Coun, 63-66; Nat. Adv. Ment. Health Coun, 67- Psychol. Asn. Emotionally disturbed children; child development; higher education. Address: Vanderbilt University, Nashville, Tenn. 37203.

HOBBS, LT. COL. RICHARD W(RIGHT), U.S.A, b. Catonsville, Md, Aug. 22, 31; m. 55; c. 1. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.S, U.S. Mil. Acad, 54; Olmsted scholar & D.Univ.(int. rels), Lyon, 63. ASST. PROF. INT. RELS, U.S. MIL. ACAD, 67- U.S.A, Lt. Col. Concept of victory in war. Publ: Ed, Readings in international relations, 2 vols; Cadet notebook; Operation statesman. Address: Dept. of Social Sciences, U.S. Military Academy, West Point, N.Y. 10996.

HOBBS, PROF. SAMUEL HUNTINGTON, JR, Rural Sociol, see 10th ed, Soc. & Behav. Vols.

HOBSON, PROF. ASHER, b. Quenemo, Kans, Nov. 26, 89. ECONOMICS. A.B, Kansas, 13, A.M, Wisconsin, 15; Dr. polit. sci, Geneva, 31. Asst. chief off. farm mgt, U.S. Dept. Agr, 19-20, in charge for. agr. serv, 30-31; assoc. prof. agr. econ, Columbia, 20-22; Am. rep, permanent cmt, Int. Inst. Agr, Rome, 22-29; consult. economist, Fed. Farm Bd, 29-30; prof. AGR. ECON, WISCONSIN, 31-53, EMER. PROF, 53-, chmn. dept, 32-48. Mem. agr. cmt, U.S. Chamber Commerce, 47-53; chmn. bd, Am. Inst. Coop; Coun, Int. Conf. Agr. Econ, 34-48. Econ. Asn; Hist. Asn; Am. Agr. Econ. Asn.(secy-treas, Farm Econ. Asn, 32-46, pres, 47); Can. Agr. Econ. Soc. National agricultural policies; history, organization, activities and policies of the International Institute of Agriculture. Address: Route 1, Blue Mounds, Wis. 53517.

HOBSON, DR. JAMES R(ICHARD), b. Empire, Ohio, Aug. 1, 97; m. 33. EDUCATIONAL PSYCHOLOGY. A.B, Mt. Union Col, 20; Ed.M, Harvard, 30, Sheldon fel, 31-32, Ed.D.(ed. psychol), 34. Teacher, high schs, Ohio, 20-29; asst. ed, Harvard, 30-31, 32-33, lectr. ed. psychol, 39-42, 44; dir. child placement, pub. schs, Brookline, Mass, 33-61, coordinator guid. serv, 61-64, spec. serv, 64-67; CONSULT. PSYCHOLOGIST, 67- Vis. lectr, Boston, 45-47; Springfield Col, 49; proj. dir, Brookline Coun. Aging, 66-67. Consult, Col. Entrance Exam. Bd, 31 & 68-; State Dept. Ed, N.Y, 55-56; psychol. serv, Crotched Mountain Rehab. Center, Greenfield, N.H, 67- Participant, talented students proj, Nat. Ed. Asn, 59. Fel. AAAS; fel. Psychol. Asn. Relationship of adolescent growth to scholastic achievement; criteria for original school admission; sex differences in primary mental abilities; longitudinal studies of later school progress of underage school admittees; organization and administration of special school services. Publ: Contrib, Examining the examination in English, Harvard, 31; auth, High school performance of underage pupils initially admitted to kindergarten on the basis of physical and psychological examinations, Ed. & Psychol. Measurement, spring 63. Address: 5 Holden St, Brookline, Mass. 02146.

HOBSON, PROF. LELAND S(TANFORD), Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HOBSON, DR. ROBERT L(OUIS), Psychol, see 11th ed, Phys. & Biol. Vols.

HOČEVAR, DR. TOUSSAINT S(TANKO), b. Ljubljana, Slovenia, June 25, 27; nat; m. 52; c. 2. ECONOMICS. Dipl, Innsbruck, 49, Ph.D.(econ), 50. Asst. prof. econ, North. State Teachers Col, 57-59, assoc. prof, 59-60; assoc. prof. & head dept, Keuka Col, 60-66; ASST. PROF. ECON, FLA. STATE, 66- Vis. prof, Ljubljana, 64-65; Fla. State Univ. summer res. travel grant, 67. Econ. Asn. Interregional trade agreements in the Slovenia--Friuli-Julian March area. Publ: Die Methoden der Lohnbestimmung in den U.S.A, Der Lohn im Wandel der Technik, 62; The structure of the Slovenian economy, 1848-1963, Studia Slovenica, N.Y, 65; The Portorož Conference: a plea for liberalization of trade in the Danubian area, Fla. State Univ. Slavic Papers, 67. Address: Dept. of Economics, Florida State University, Tallahassee, Fla. 32306.

HOCH, DR. IRVING, b. Chicago, Ill, July 22, 26. ECONOMICS. Ph.B, Chicago, 45, A.M, 51, Ph.D, 57. Asst. agr. econ, Chicago, 51-54, res. assoc, 55; economist, Chicago Area Transportation Study, 56-58, chief econ. res, 58-59; asst. prof. agr. econ, California, Berkeley, 59-62, assoc. prof, 62-67; RES. ASSOC. URBAN & REGIONAL ECON, RESOURCES FOR THE FUTURE, 67- Consult, Stanford Res. Inst, 63-64. U.S.A, 45-46. Econ. Asn; Agr. Econ. Asn; Economet. Soc; Statist. Asn; Regional Sci. Asn. Econometrics; economic theory; agricultural policy; transportation; urban economics; input-output analysis. Publ: Co-auth, Wilderness and recreation, U.S. Govt. Printing Off, 62; auth, Simultaneous equation bias in the contest of the Cobb-Douglas production function, Econometrica, 10/58; Forecasting economic activity for the Chicago region, Chicago area transportation study, 59. Address: Resources for the Future, 1755 Massachusetts Ave. N.W, Washington, D.C. 20036.

HOCHBAUM, DR. GODFREY M(ARTIN), b. Vienna, Austria, Nov. 19, 16; nat; m. 42. SOCIOL PSYCHOLOGY. B.A, American Univ, 47; M.A, George Washington, 49; Ph.D.(psychol), Minnesota, 53. Res. psychologist, personnel res. sect, Adj. Gen. Off, 48-49; asst, lab. for res. soc. rel, Minnesota, 50-52; res. psychologist, pub. health ed, U.S. PUB. HEALTH SERV, 52-57, asst. chief, BEHAV. SCI. SECT, DIV. COMMUNITY HEALTH SERV, 57-61, CHIEF, 61- Lectr, American Univ, 55-58, adj. prof, 58-; exp. adv. health, ed. & behav. sci, WHO, 67- U.S.A, 41-46, Lt. Psychol. Asn; fel. Pub. Health Asn. Attitudes, motivations and behavior concerning health and sickness; social perception and behavior; social-psychological aspects of public health behavior. Publ: Co-auth, Impact of Asian influenza on community life; auth, Public participation in medical screening programs: socio-psychological study; auth, Psychosocial aspects of smoking, In: Surgeon General's report on smoking and health, U.S. Pub. Health Serv, 65. Address: 5602 Asbury Court, Alexandria, Va. 22312.

HOCHBAUM, DR. JERRY, b. New York, N.Y, Nov. 26, 33; m. 64. SOCIOLOGY, SOCIAL WORK. B.A, Yeshiva Col, 54; M.A, Columbia, 59, Nat. Inst. Ment. Health fel, 66, M.S, 67; Ph.D.(sociol), N.Y. Univ, 65. Instr. SOCIOL, YESHIVA, 60-64, ASST. PROF, 65-; RES. DIR. COMMUNITY PSYCHIAT, ST. LUKE'S HOSP, 67- Asst. dir. admissions, Yeshiva Col, 60-64; vis. asst. prof, N.Y. Univ, 65-66. Sociol. Asn; Soc. Sci. Study Relig; Nat. Asn. Soc. Workers. Relationship between individual pathology and the culture of deprivation; adaption of traditional religious institutions to modern society: student sub-cultures in higher education. Publ: Structure and process in higher education, Col. & Univ, 68; The changing socio-religious profile of American orthodoxy, Tradition, summer 67; Social planning for immigrant absorption, Int. Migration, 11/67. Address: 475 F.D.R. Dr, New York, N.Y. 10002.

HOCHBERG, PROF. IRVING, b. Brooklyn, N.Y, Apr. 17, 34; m. 58; c. 2. AUDIOLOGY. B.A, Brooklyn Col, 55; M.A, Columbia, 57; Ph.D.(audiol), Pa. State, 62. Asst. AUDIOL, Pa. State, 60-62; asst. prof, N.Y. UNIV, 62-65, assoc. prof, 65-68, PROF, 68- Dir. training grants speech path. & audiol, Voc. Rehab. Admin, 63-; U.S. Off. Ed, 68- Consult, St. Vincent's Hosp, 64-; Vet. Admin. Hosp, 67-68; ment. retardation center, N.Y. Med. Col, 68- Lindback award, N.Y. Univ, 66. Acoustical Soc; Speech & Hearing Asn. Psychoacoustics; psychology of hearing. Publ: Auditory localization of speech as a function of interaural auditory acuity, 63 & Median plane localization of speech, 66, J. Auditory Res; Effect of previous listening experience upon semantic perception of simple and complex tones, Perceptual & Motor Skills, 65. Address: Dept. of Speech, New York University, Washington Square, N.Y. 10003.

HOCHBERG, PROF. JULIAN, Psychol, see 11th ed, Phys. & Biol. Vols.

HOCHSTIM, DR. JOSEPH R(ALPH), b. Vienna, Austria, Mar. 23, 04; nat; m. 50. STATISTICS. Ph.D.(polit. sci), Vienna, 28. Res. assoc. opinion & mkt. res, Psychol. Corp, 38-44; chief statistician, Opinion Res. Corp, 44-50; div. prices & cost of living, bur. labor statist, U.S. Dept. Labor, 50-52; opinion & mkt. researcher, 53-54; dir. res, psychol. warfare div. & res. design adv, HumRRO, George Washington 54-59; prin. statist. consult, HUMAN POP. LAB, STATE DEPT. PUB. HEALTH, CALIF, 59-62, DIR, 62- AAAS; Statist. Asn; Sociol. Asn; Asn. Pub. Opinion Res; Pub. Health Asn. Attitudes and behavior; epidemiology. Publ: Co-auth, Method of measuring interviewer variability, Pub. Opinion Quart, 52; co-auth, Sociocultural aspects of cervical cytology in Alameda county, California, Pub. Health Reports, 64; auth, A critical comparison of three strategies of collecting data from households, J. Am. Statist. Asn, 9/67. Address: 660 Hilldale Ave, Berkeley, Calif. 94708.

HOCHSTRASSER, DR. DONALD LEE, b. Taylorsville, Ky, June 10, 27; m. 60; c. 3. ANTHROPOLOGY, COMMUNITY MEDICINE. B.A, Kentucky, 52, Margaret Voorhies Haggin fel, 53-54, M.A, 55; univ. fel, Northwestern, 55-56; fel, Oregon, 57-58, Nat. Sci. Found. res. grant, 60-61, Ph.D.(anthrop), 62. Res. asst. sociol, Kentucky, 54-55, instr. anthrop, 56-57; part-time instr, Oregon, 58-59; KENTUCKY, 59-60, instr. COMMUNITY MED, 61-63, asst. prof, 63-66, ASSOC. PROF, 66- Nat. Tuberc. Asn. res. grants, 62-65; Nat. Tuberc. Asn-U.S. Pub. Health Serv. res. grants, 64-66. Consult, annual conf. behav. aspects tuberc. control, Tuberc. & Health Soc. St. Louis, 64-65; nat. conf. follow-up & outpatient of tuberc. patients, Nat. Tuberc. & Respiratory Disease Asn, 65; symposium rational therapy & control tuberc, U.S. Pub. Health Serv, 65, 67. U.S.N, 46-47. AAAS; Pub. Health Asn; fel. Anthrop. Asn; Asn. Polit. & Soc. Sci; fel. Soc. Appl. Anthrop. Cultural anthropology, especially cultural dynamics, culture-personality, community study, applied anthropology and social organization; medical anthropology, especially tuberculosis control, epidemiology, community health programs, population and family planning and health behavior. Publ: Co-auth, Behavioral factors affecting medical supervision of nonhospitalized tuberculous patients, Am. Rev. Respiratory Diseases, 5/65; Sociomedical approaches to community health programs, Milbank Mem. Fund. Quart, 7/66; Community health work in southern Appalachia, Mt. Life & Work, fall 66. Address: Dept. of Community Medicine, College of Medicine, University of Kentucky Medical Center, Lexington, Ky. 40506.

HOCHWALD, PROF. WERNER, b. Berlin, Germany, Jan. 21, 10; nat; wid; c. 2. ECONOMICS. Freiburg, 28-29; LL.B, Berlin, 32; B.S, Washington (St. Louis), 40, A.M, 42, Ph.D, 44. Instr. econ, WASHINGTON (ST. LOUIS), 44-47, asst. prof, 47-49, assoc. prof, 49-50, prof, chmn. dept. & dir. int. econ. res, 50-55, TILESTON PROF. POLIT. ECON, 55-, acting chmn. dept. econ, 48-50. Lectr, Army Finance Sch, 50-52. Consult, Fed. Reserve Bank of St. Louis, 47-58; U.S. Off. Ed, 67- Mem. conf. res. income & wealth, Nat. Bur. Econ. Res. Econ. Asn; Statist. Asn; Agr. Econ. Asn; Economet. Soc; Indust. Rels. Res. Asn; Hist. Asn. International economics; regional economic analysis; economic accounting. Publ: Design of regional accounts, Johns Hopkins, 61; co-auth, Essays in southern economic development, Univ. North Carolina, 64; auth, Local impact of foreign trade, Nat. Planning Asn, 60. Address: Dept. of Economics, Washington University, St. Louis, Mo. 63130.

HOCKENBERRY, PROF. WILLIAM R, Econ, see 10th ed, Soc. & Behav. Vols.

HOCKETT, PROF. CHARLES F(RANCIS), b. Columbus, Ohio, Jan. 17, 16; m. 42; c. 5. ANTHROPOLOGY. B.A. & M.A, Ohio State, 36; Soc. Sci. Res. Coun. fels, Yale, 36-38, Am. Coun. Learned Socs. fel, 38-39, Ph.D.(anthrop), 39. Asst. prof. ling, CORNELL, 46-49, assoc. prof, 49-53, PROF, 53-57, LING. & ANTHROP, 57- Fel, Center Adv. Study Behav. Sci, Calif, 55-56; vis. prof, Hawaii, 60-61; summers, vis. prof, ling. inst, Indiana, 52; Chicago, 55; Can. Summer Sch. Ling, Alberta, 60; Michigan, 67. Consult, Rand Corp, 61- U.S.A, 42-46, Capt. Fel. AAAS; fel. Anthrop. Asn; Ling. Soc. Am.(pres, 64); Ethnol. Soc. Nature and evolution of language; role of language in determining man's place in nature. Publ: A course in modern linguistics, Macmillan, 58; The state of the art, Mouton, 68; co-auth, The human revolution, Current Anthrop, 6/64. Address: Division of Modern Languages, Morrill Hall, Cornell University, Ithaca, N.Y. 14850.

HOCKINGS, DR. PAUL (EDWARD), b. Hertford, Eng, Feb. 23, 35; m. 64. ANTHROPOLOGY. B.A, Sydney, 57; M.A, Toronto, 60; fel, Chicago, 61; Ph.D.(anthrop), California, Berkeley, 65. Asst. anthrop, California, Berkeley, 60-62; res. assoc. commun, Stanford, 64-65; ASST. PROF. ANTHROP, CALIFORNIA, LOS ANGELES, 65- Fel. Am. Anthrop. Asn; fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. Communication networks in India; ethnographic filming; social organization; comparative religion; Near Eastern prehistory; Dravidian languages; medical anthropology. Publ: Ceramic style in prehistoric Cyprus, Man, 5/63; Studies on the Nilgiri Hills of Madras, Deccan Col, Poona, 68. Address: Dept. of Anthropology, University of California, Los Angeles, Calif. 90024.

HODGDON, DR. LINWOOD L(AMB), b. Plainfield, Vt, Mar. 19, 17; m. 45; c. 3. SOCIOLOGY, ANTHROPOLOGY. A.B, Am. Int. Col, 41; A.M, Mich. State Col, 47, Ph.D, 52. Asst. prof. sociol. & anthrop, Kansas State, 49-54, assoc. prof, 54-56, prof, 56-59; Fulbright prof, inst. soc. scis, Agra, India, 58-59; community develop. adv, Agency Int. Develop, U.S. Opers. Mission, Seoul, Korea, 60-62; consult. community develop, Ford Found, India, 62-64; PROF. SOCIOL. & DIR. OFF. INT. PROG, COLORADO STATE, 64- Consult, int. seminar role community develop. today, New England, Australia, 64. Sociol. Asn; Rural Sociol. Soc. Sociology of development; community development; comparative education. Publ: Community development in Korea, U.S. Opers. Mission Korea, 61; co-auth, Adoption of agricultural practices in Madhya Pradesh, India, Nat. Inst. Com. Develop, Hyderabad, India, 64; auth, Rural community development in India: its problems and its future, Soc. Action, Poona, India, 5-6/63. Address: Office of International Programs, Colorado State University, Fort Collins, Colo. 80521.

HODGE, DR. DAVID C(HARLES), b. Ft. Worth, Tex, July 5, 31; m. 57. EXPERIMENTAL & ENGINEERING PSYCHOLOGY. B.A, Hardin-Simmons, 53; M.A, Tex. Tech. Col, 59; Ph.D.(exp. psychol), Rochester, 63. Asst. eng. psychol, human eng. lab, Aberdeen Proving Ground, Md, 54-56, res. psychologist, 56; asst. chem, Tex. Tech. Col, 57, exp. psychol, 57-59; Rochester, 59-61; consult, dept. audio eval, Gen. Dynamics Corp, 61; res. asst. vision, Rochester, 61-62; res. psychologist, U.S. ARMY HUMAN ENG. LABS, ABERDEEN PROVING GROUND, 62-65, RES. TEAM LEADER EXP. PSYCHOL, 65- Mem, Cmt. Hearing & Bioacoustics Working Group 46, 62-64; U.S. Army rep, Quadripartite Group on Blast Limits, 64-; mem, Nat. Res. Coun. Cmt. Hearing, Bioacoustics & Biomech, 67- U.S.A, 53-56, Res, 56-61. AAAS; Psychol. Asn; Acoustical Soc; Human Factors Soc. Psychoacoustics; hearing damage-risk criteria; auditory and visual detection and perception. Publ: Co-auth, Reliability of TTS from impulse-noise exposure, 66 & Hazardous exposure to impulse noise, 68, J. Acoustical Soc. Am; An investigation of some variables affecting pulsed-tone Bekesy Audiometry, Human Eng. Labs. Tech. Memo, 67. Address: U.S. Army Human Engineering Labs, Aberdeen Proving Ground, Md. 21005.

HODGE, DR. EDWIN R, JR, Mkt, see 10th ed, Soc. & Behav. Vols, deceased 65.

HODGE, DR. MILTON H(OLMES), JR, b. Detroit, Mich, Feb. 10, 29; m. 52; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Virginia, 53, Du Pont fels, 54-57, M.A, 55, Ph.D.(psychol), 57. Asst. prof. PSYCHOL, Mary Washington Col, Virginia, 57-59; GEORGIA, 59-63, ASSOC. PROF, 63- Res. psychologist, U.S. Air Force Oper. Appln. Lab, D.C, 59; U.S. Air Force res. contract, 60-61; Pub. Health Serv. grant, 63-; vis. assoc. prof, Louisville, 66-67. U.S.A.F, 46-49. AAAS; Psychol. Asn; Psychonomic Soc. Perception and complex human learning; general activity; choice behavior. Publ: Influence of irrelevant information upon complex visual discrimination; J. Exp. Psychol; co-auth, Individual response patterns in binary choice tasks with nondiscriminable stimuli, Perception & Psychophys, 66; Ultrasonic measurement and automatic analysis of general activity in the rat, J. Comp. Physiol. Psychol, 66. Address: Dept. of Psychology, University of Georgia, Athens, Ga. 30601.

HODGE, DR. ROBERT WILLIAM, b. Washington, D.C, Jan. 20, 37; div. SOCIOLOGY, DEMOGRAPHY. B.A, Reed Col, 59; Woodrow Wilson fel, Chicago, 59-60, Pop. Coun. fel, 60-61, M.A, 61, Nat. Sci. Found. fel, 61-62, Soc. Sci. Res. Coun. fel, 62-63, Ph.D.(sociol), 67. Sr. study dir, Nat. Opinion Res. Center, 63-64; asst. prof. SOCIOL, CHICAGO, 64-67, ASSOC. PROF, 67- Nat. Sci. Found. grants, 65- Pop. Asn. Am; Statist. Asn. Social stratification; race and ethnic relations. Publ: Co-auth, Occupation prestige in the U.S: 1925-63, 64 & Class identification in the U.S, 68, Am. J. Sociol; auth, Occupational mobility as a probability process, Demography, 66. Address: Dept. of Sociology, University of Chicago, 1126 E. 59th St, Chicago, Ill. 60637.

HODGE, DR. WILLIAM HOWARD, b. Coffeyville, Kans, June 21, 32; m. 57; c. 1. ANTHROPOLOGY. A.B, Washington (St. Louis), 53, M.A, 54; fel, Wisconsin, 54-55; Ph.D.(anthrop), Brandeis, 66. Instr. sociol, Valparaiso, 58-59; asst. prof. ANTHROP, Wyoming, 65-67; ASSOC. PROF, Prescott Col, 67-68; WISCONSIN, MILWAUKEE, 68- U.S.N.R, 51-55. Anthrop. Asn; Ethnol. Soc; Royal Anthrop. Inst. Gt. Brit; Polynesian Soc. Non-urban peoples in urban situations; analysis of personal documents; anthropological theory. Publ: Albuquerque Navahos, Univ. Arizona, 68; Navaho pentecostalism, 7/64 & Navaho urban silversmiths, 10/67, Anthrop. Quart. Address: Dept. of Anthropology, University of Wisconsin, Milwaukee, Wis. 53211.

HODGEN, PROF. MARGARET T(RABUE), Hist. of Soc. Theory, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HODGES, DR. ALLEN, b. Greenville, S.C, Feb. 16, 25; m. 44; c. 4. PSYCHOLOGY. B.A, Minnesota, 47; M.A, Tennessee, 48, Ph.D, 53. Psychologist, pub. schs, Tenn, 48-52, dir. guid, 52-53; clin. psychologist & prog. dir, South. Minn. Ment. Health Center, 53-57; psychol. consult. & acting dir, community ment. health serv. med. div, State Dept. Pub. Welfare, Minn, 57-59; asst. prof. ed. psychol. & dir. sch. psychol. training prog, Minnesota, 59-61; clin. psychol. consult, U.S. PUB. HEALTH SERV, DEPT. HEALTH, ED. & WELFARE, REGION VIII, 61-64, prog. dir. ment. health serv, Nat. Inst. Ment. Health, 64-67, ASSOC. REGIONAL HEALTH DIR. MENT. HEALTH, 67- Lectr, Regis Col.(Colo), 62-; asst. clin. prof, dept. psychiat, sch. med, Colorado, 65- Mem, Bd. Examining Psychologists, 57-61. U.S.N.R, 43-46, Lt.(jg). Fel. Psychol. Asn; Pub. Health Asn. Conceptual development in children; diagnosis, treatment and prevention of learning difficulties in children; assessment of personality. Publ: Developmental study of symbolic behavior, Child Develop; Double alternation, a measure of intelligence, J. Consult. Psychol; The realities of space in rural mental health programming, Pub. Health Reports, 67. Address: U.S. Public Health Service, Room 9414, Federal Bldg, 20th & Stout St, Denver, Colo. 80202.

HODGES, PROF. HAROLD M(ELLOR), JR, b. Beverly Hills, Calif, Apr. 9, 22; m. 54; c. 1. SOCIOLOGY. Ph.D.(sociol), Southern California, 55. Asst. prof. SOCIOL, Wis. State, River Falls, 55-58; assoc. prof, SAN JOSE STATE COL, 58-65, PROF. & CHMN. DEPT, 65- U.S.A, 42-46. Sociol. Asn; Asn. Ed. Journalism; Soc. Study Social Probs. Social stratification and change; conflict; sociology of art and fiction; sources of alienation; mass society and culture. Publ: Social stratification: class in America, Schenkman, 65, 2nd ed, 67; Mass society and post-industrial man, 68 & Sociology, 69, Harper. Address: Dept. of Sociology, San Jose State College, San Jose, Calif. 95114.

HODGES, DR. HENRY G(REEN), b. Wilmington, Del, May 21, 88. MANAGEMENT. A.B, Princeton, 11; A.M, Pennsylvania, 15, Harrison fel, 15-16, Ph.D, 17. Instr. polit. sci, Western Reserve, 17-18; finance & indust. mgt, Reading, Pa, 20-32; res, Europe, 32-34; asst. prof. polit. sci, Louisville, 34-35; assoc. prof, Cincinnati, 35-40, lectr, 40-49; prof. mgt, Florida, 49-56; Miami (Fla), 56-63; RETIRED. Gen. inspector, pub. works, Phila, 16; dir. res, Cincinnati, Ohio, 35-38; lectr, Fed. Off. Ed, 38. Consult. mgt. & labor rels, 40-49. Dir, Cong. Am. Professions, 40-63. Statistician, Emergency Fleet Corp, Pa, 17-19. Mgt. Asn; Soc. Adv. Mgt; Arbit. Asn; fel. Inst. Mgt; Acad. Polit. & Soc. Sci. Industrial and public management; socialism. Publ: City management; Management, principles, practices, problems. Address: 1006 N.W. 12th Ave, Gainesville, Fla. 32601.

HODGES, JOHN E(LTON), b. Gonzales, Tex, Apr. 2, 13; m. 37; c. 1. ECONOMICS. B.B.A, Texas, 35, M.B.A, 37. Instr, Texas, 36-38; asst. prof, 42-44; asst, California, 38-41; res. assoc, Giannini Found, 41-42; assoc. prof. commerce & head dept, Rice, 46-66; DIR. STATIST, AM. PETROL. INST, 66- From economist & dir. oper. res. to v.pres, Hughes Tool Co, 55-66. Econ. Asn; Statist. Asn. Management; petroleum economics. Address: 2339 Goldsmith Rd, Houston, Tex. 77025.

HODGES, PROF. J(ULIAN) A(DAIR), b. Greensburg, Ky, June 26, 95; m. 23; c. 2. AGRICULTURAL ECONOMICS. B.S, Kentucky, 17, M.S, 23; Wisconsin, 25; Soc. Sci. Res. Coun. fel, Harvard, 28-29, A.M. & Ph.D.(agr. econ), 38. Instr, Tennessee, 23; agr. econ, KANSAS STATE, 23-26, asst. prof, 26-36, assoc. prof, 36-41, prof, 41-65, acting head dept. econ. & sociol, 48-49, 58-61, EMER. PROF. AGR. ECON, 65-; PROF. ECON, PACIFIC UNIV, 66- Farm mgt. adv, Kansas State Univ-Agency Int. Develop. mission, col. agr, Poona, 63-65. Summers, vis. prof, Arkansas, 57; tech. leader farm study proj, Int. Coop. Admin, U.S. Dept. Agr. & Land Grant Cols, India & Iraq, 57. Consult, For. Opers. Admin, U.S. Dept. Agr. & Land Grant Cols, 53. U.S.A, 17-19. Am. Econ. Asn; Am. Agr. Econ. Asn; Can. Agr. Econ. Soc. Farm management and types of farming. Publ: Development of the farm budget in the United States, In: Resource productivity, returns to scale, and farm size. Address: 2407 Main St, Forest Grove, Ore. 97116.

HODGES, PROF. WILEY EDWARD, b. Blountville, Tenn, May 21, 03. POLITICAL SCIENCE. B.S, Roanoke Col, 26; A.M, Duke, 30, Ph.D, 44. Asst. govt. & econ, Duke, 30-32; mem. faculty, Randolph-Macon Col, 36-37; Davis & Elkins Col, 37-39; Clemson Col, 39-40; W.Ga. Col, 40-41; assoc. prof. POLIT. SCI, THE CITADEL, 41-57, PROF. & CHMN. DEPT, 57-Polit. Sci. Asn. Political theory; pro-governmentalism and anti-governmentalism in Virginia, 1789-1836. Address: Dept. of Political Science, The Citadel, Charleston, S.C. 29409.

HODGETTS, PROF. JAMES C(LIFFORD), b. Covington, Ky, Nov. 17, 22; m. 46; c. 1. BUSINESS ADMINISTRATION. B.S, Kentucky, 47; M.A, Louisville, 49; Ph.D.(mgt), North Dakota, 54. Assoc. prof. econ, Elon Col, 49-51; asst. prof. mgt, North Dakota, 51-52; Dayton, 52-54; prof. & chmn. dept. bus. admin, Rider Col, 54-60; assoc. prof. MGT, Toledo, 60-65; PROF,

MEMPHIS STATE, 65- Staff adv, Durironi Co, Ohio, 53-54. Consult, Diamond Bros, N.J, 55-56; Sun Oil Co, 60-61; Continental Aviation & Eng. Corp; Flower Hosp; St. Luke's Hosp; Consol. Aluminum Corp; Richards Mfg. Co. U.S.A.A.F, 43-45. Econ. Asn; Arbit. Asn; Soc. Adv. Mgt. Effect of automation on management organization; human aspects of methods, times and measurement. Publ: Practical production management; Techniques for storage executives-U.S. Army; Management development manual. Address: Dept. of Management, Memphis State University, Memphis, Tenn. 38111.

HODGETTS, PROF. J(OHN) E(DWIN), b. Omemee, Ont, May 28, 17; m. 43; c. 3. POLITICAL SCIENCE. B.A, Toronto, 39, M.A, 40; Rhodes scholar, Ontario, 39; Ph.D, Chicago, 46. Lectr. POLIT. SCI, Toronto, 43-45; from lectr. to asst. prof, Queen's (Ont), 45-50, assoc. prof, 50-57, prof, 57-61, Hardy prof, 61-65; PROF, TORONTO, 65-, PRIN, VICTORIA COL, 67- Nuffield traveling fel, 49-50; Skelton-Clark res. fel, 54-55. Ed. dir, Royal Cmn. Govt. Orgn, 60-62. Mem. acad. adv. panel, Can. Coun, 66-, chmn, 67-68. Can. Polit. Sci. Asn; fel. Royal Soc. Can; Inst. Pub. Admin, Can; Int. Polit. Sci. Asn. Canadian public administration. Publ: Co-ed, Canadian public administration; co-auth, Democratic government and politics, Univ. Toronto, 59; auth, Administering the Atom for peace, Atherton, 64. Address: Victoria College, University of Toronto, Toronto, Ont, Can.

HODGKIN, DR. DOUGLAS I(RVING), b. Lewiston, Maine, May 11, 39; m. 62; c. 3. POLITICAL SCIENCE. B.A, Yale, 61; James B. Duke fel, Duke, 61-63, M.A, 63, Ph.D.(polit. sci), 66. Instr. GOVT, Bowdoin Col, 64-66; ASST. PROF, BATES COL, 66- Polit. Sci. Asn. Political parties; voting behavior; legislative process; state and local government. Address: 9 Sutton Place, Lewiston, Maine 04240.

HODGKINS, DR. BENJAMIN J, b. Evansville, Ind, Dec. 2, 31; m. 53; c. 2. SOCIOLOGY. B.S, Mich. State, 56, M.A, 61, Ph.D.(sociol), 64. ASST. PROF. SOCIOL, Alberta, 64-65; FLA. STATE, 65- U.S.A, 49-51. Sociol. Asn. Socialization process of children as it is manifest in institutionalized settings. Publ: Co-auth, College student subcultures: their structure and characteristics in relation to student attitude change, Sch. Rev, 71, 3, 63; Educational and occupational aspirations among rural and urban male adolescents in Alberta, Alta. J. Ed. Res, XI, 4, 65; auth, A comparative study of unwed mothers in Western Canada, Can. Soc. Worker, 66. Address: Dept. of Sociology, Florida State University, Tallahassee, Fla. 32306.

HODGKINS, PROF. JORDAN A(TWOOD), b. Worcester, Mass, June 1, 20; m. 43; c. 2. GEOGRAPHY. A.B, Kansas, 47, M.A, 49; Ph.D.(geog), Syracuse, 59. Asst. instr. GEOG, Syracuse, 51-53, instr, Cincinnati, 53-57, asst. prof, 57-60; KENT STATE, 60-62, assoc. prof, 62-64, PROF, 64-; summer grant, 61. U.S.A, 43-46, Capt. Asn. Am. Geog. Geography of energy potential of the Union of Soviet Socialist Republics; rural non-farm population of the United States: climatology. Publ: Soviet power: energy resources, production and potential. Address: Dept. of Geography, Kent State University, Kent, Ohio 44240.

HODGKINSON, WILLIAM, JR, Statist, see 10th ed, Soc. & Behav. Vols.

HODGMAN, PROF. DONALD R, b. Buffalo, N.Y, Aug. 16, 21; m. 45; c. 4. ECONOMICS. A.B, Rochester, 42; M.A, Harvard, 48, fel, 48-51, Ph.D. (econ), 51. Asst. prof. ECON, California, 51-58; assoc. prof, ILLINOIS, URBANA, 58-61, PROF, 61- Nat. Sci. Found. res. grant, 63-68; Soc. Sci. Res. Coun. faculty res. grant, 65-66. Consult, antitrust div, U.S. Dept. Justice, 66-67; bd. gov, Fed. Reserve Syst, 67. U.S.A, 43-46, 2nd Lt. Econ. Asn; Finance Asn. Monetary theory and policy; banking; Soviet economy; comparative international study of the instruments and processes of monetary policy; micro-econometric models of commercial banks: banking markets and competition. Publ: Commercial bank loan and investment policy, Bur. Bus. Econ. & Bus. Res, Univ. Illinois, 6/63; article, Competition in banking and its regulation, Bankers Mag, winter 64. Address: Dept. of Economics, University of Illinois, Urbana, Ill. 61801.

HODGSON, JAMES B(ARKER), JR, b. Cedar Rapids, Iowa, July 29, 20; m. 46; c. 5. OPERATIONS RESEARCH. HISTORY. B.A, Coe Col, 42; Zurich, 47-50; Göttingen, 50-52. Historian, Off. Chief Mil. Hist, Dept. Army, 53-55; opers. analyst, combat opers. res. group, Hq, Continental Army Command, Ft. Monroe, Va. 55-58; proj. engr. Melpar, Inc, 58-61; sr. opers. res. scientist, Syst. Develop. Corp, 61-65; OPERS. RES. & SYST. ENG. CONSULT, 65- Eng.C, A.U.S, 42-47, Res, 47-60. Maj. AAAS; Opers. Res. Soc; Inst. Mgt. Sci; Hist. Asn; Mediaeval Acad. Attitudes of English toward Roman Emperor from 700 to 1250 A.D; German defense of northern France, 1944; computer simulations and gaming as an instructional vehicle. Publ: Co-auth, Hitler vs. his generals in the west, Proc. U.S. Naval Inst, 12/56; auth, numerous articles, In: World Book Encyclop, Field Enterprises, Inc, 60; co-auth, Design of engineering test model topographic data system. I Interim report, Melpar, Inc, 2/61. Address: 506 A St. S.E, Washington, D.C. 20003.

HODGSON, PROF. JAMES J(OSEPH) A(LBERT), Statist, Econ, see 10th ed, Soc. & Behav. Vols.

HODGSON, DR. JOHN H(ELMS), b. New York, N.Y, May 21, 33; m. 60; c. 1. POLITICAL SCIENCE. A.B, Dartmouth Col, 55; Ford Found. fel. & M.A, Harvard, 58, Ford Found. & Russian Res. Center fels. & Ph.D.(polit. sci), 64. Acting instr. POLIT. SCI, Yale, 63-64, asst. prof, 64-65; SYRACUSE, 65-67, ASSOC. PROF, 67- U.S.A.F, 58-60, Capt. Polit. Sci. Asn. Soviet domestic and foreign politics; politics of Northern Europe. Publ: Communism in Finland: a history and interpretation, Princeton, 67; The Finnish Communist Party and neutrality, Govt. & Opposition, 1-4/67; Postwar Finnish foreign policy: institutions and personalities, West. Polit. Quart, 3/62. Address: Dept. of Political Science, Syracuse University, Syracuse, N.Y. 13210.

HODGSON, PROF. MARSHALL G(OODWIN) S(IMMS), Soc. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HODGSON, DR. RICHARD C(HRISTOPHER), b. Montreal, Que, Jan. 12, 34; m. 58; c. 3. ORGANIZATIONAL BEHAVIOR. B.Sc, McGill, 55, M.Sc, 56; D.B.A.(org. behav), Harvard, 63. Res. asst. ORG. BEHAV, bus. sch, Harvard, 61-62, res. assoc, 62-63, asst. prof, 63-64; WESTERN ONTARIO, 64-65, ASSOC. PROF, 65- Am. Psychol. Asn; Am. Sociol. Asn; Can. Psychol. Asn. Psychology of work, especially motivation, job design, interpersonal dynamics, organization structure, sociotechnical systems. Publ: Co-auth, The executive role constellation, Harvard, 65; auth, Toward more effective management: a behavioral science viewpoint, Univ. West. Ont. Bus. Quart, 66. Address: School of Business Administration, University of Western Ontario, London, Ont, Can.

HODGSON, DR. ROBERT D(AVID), b. New York, N.Y, June 7, 23; m. 44; c. 7. GEOGRAPHY. A.B, Michigan, 44, M.A, 47, Ph.D.(geog), 51. Res. analyst, U.S. Govt, 51-52; geog. attache, Am. Embassy, Bonn, Germany, 52-57; GEOGR, U.S. DEPT. STATE, D.C, 57- U.S.M.C, 43-46, Lt. Asn. Am. Geog; Am. Geog. Soc. Political geography; cartography; international boundaries in rivers. Publ: Co-auth, The changing map of Africa, Van Nostrand, ed. I, 62, ed. II, 67; auth, The state boundaries, Rand McNally, 68. Address: 10720 Joyce Dr. Fairfax, Va. 22030.

HODGSON, DR. THOMAS F(RANCIS), b. Bellingham, Wash. Oct. 31, 23; m. 46; c. 3. INDUSTRIAL PSYCHOLOGY. B.A, British Columbia, 49; M.S, Washington (Seattle), 52, Ph.D, 58. Asst. personnel psychol, Defense Res. Bd, Can, 49; asst. mil. psychol, training res. lab, Illinois, 52-53; counsr, off. dean students, Washington (Seattle), 49-50, 53-56, instr. personnel eval, col. bus. admin. 57, dir. off. student ratings, 57-59; eng. psychologist, Radio Corp. Am, 59-61; assoc. dean students, WASHINGTON (SEATTLE), 61-67, DIR. DIV. EVAL. & COUNSELING SERV, 67- R.C.A.F, 43-45, Flying Officer. Psychol. Asn. Quantitative psychology: applications of psychological knowledge to industrial and educational problems, especially problems of a systems nature involving man-machines design, personnel selection, behavioral prediction, organization of counseling and advising facilities. Publ: Co-auth, The efficient course of action in 'trouble-shooting' as a joint function of probability and cost, Ed. & Psychol. Measurement, Transfer and retroaction effects of 'association reversal' and 'familiarization' training in trouble shooting, Psychol. Monogr. & The general and primary factors in student evaluation of teaching ability, Am. Psychologist. Address: 10752 Fifth N.W. Seattle, Wash. 98177.

HODGSON, DR. VINCENT, Statist, see 11th ed, Phys. & Biol. Vols.

HODJERA, DR. ZORAN, b. Beograd, Yugoslavia, Aug. 14, 23: U.S. citizen; m. 62. ECONOMICS, INTERNATIONAL RELATIONS. Lic. és sci. polit, Grad. Inst. Int. Studies, Geneva, 50; Tolstoy res. fel, Oxford, 59-60: Ph.D.(econ), Columbia, 64. Lectr. econ, City Col. New York, 60-61: instr, Yale, 61-64, asst. prof, 64-65; ECONOMIST, INT. MONETARY FUND, 65- Vis. assoc. prof, Virginia, 67-68. Consult, Ford Found, New York, 56-59; Inst. Defense Anal, Wash, D.C, 64-66. Am. Econ. Asn; Royal Econ. Soc. Technological progress in international trade theory; international capital movements and capital markets in industrial countries; foreign trade, foreign debt and exchange rate policy in less developed countries. Publ: Co-auth, Sino-Soviet technical assistance, Annals Acad. Polit. & Soc. Sci, 5/59; auth, Unbiased productivity growth and increasing costs, Oxford Econ. Papers, 11/63. Address: 2401 Calvert St. N.W, Washington, D.C. 20008.

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HODSON, PROF. BERNARD ASHWORTH, Appl. Math, Comput. Sci, see Suppl. IV to 11th ed. Phys. & Biol. Vols.

HOEBEL, DR. BARTLEY G(ORE), b. New York, N.Y, May 29, 35; m. 62; c. 2. PHYSIOLOGICAL PSYCHOLOGY. A.B, Harvard Col, 57; Rockefeller Univ, 57-60; Ph.D, Pennsylvania, 62. Instr. PSYCHOL, Pennsylvania, 62-63; asst. prof, PRINCETON, 63-67, ASSOC. PROF, 67- Nat. Inst. Ment. Health summer res. fel, 63. Awards, Pa. Psychol. Soc. 61 & Am. Inst. Res, 63. Psychol. Asn. Brain control of feeding and electrical self-stimulation. Publ: Co-auth, Hypothalamic control of feeding and self-stimulation, 135: 375, 62 & A "copulation-reward site" in the posterior hypothalamus, 153: 1284, 66, Science; auth, Inhibition and disinhibition of self-stimulation and feeding, J. Comp. Physiol. Psychol. Address: Dept. of Psychology, Green Hall, Princeton University, Princeton, N.J. 08540.

HOEBEL, PROF. E(DWARD) ADAMSON, b. Madison, Wis, Nov. 16, 06; m. 30; c. 1. ANTHROPOLOGY. B.A, Wisconsin, 28: Köln, Germany, 28-29; M.A, N.Y. Univ, 29: Ph.D.(anthrop), Columbia, 34. Asst. sociol, N.Y. Univ, 29-30, instr, 30-36, asst. prof. sociol. & anthrop, 36-41: vis. assoc. prof. anthrop, Claremont Col, 41: assoc. prof, N.Y. Univ, 41-48: prof, Utah, 48-54, dean, univ. col, 53-54; prof. ANTHROP, MINNESOTA, MINNEAPOLIS, 54-66, REGENTS PROF, 66- Univ. Res. Coun. fels. Columbia, 34, 45, 46; Am. Coun. Learned Socs. res. fel. 36-37: vis. assoc. prof, Washington (Seattle), 39; Soc. Sci. Res. Coun. training fel, California, 40-41: analyst, War Relocation Authority, Colo, 44; vis. assoc. prof, Chicago, 47; vis. prof, Wisconsin, 51; dir. Soc. Sci. Res. Coun, 51-; vis. prof, Harvard, 53; Oxford, 56; fel, Center Adv. Study Behav. Sci, 60; sr. specialist, inst. adv. projs, Center Cultural Interchange Between East & West, Honolulu, 64-65. Mem, cmt. int. exchange of persons, Conf. Bd. Assoc. Res. Socs, 59-62; behav. sci. grad. training cmt, Nat. Inst. Gen. Med. Sci, 62-66. AAAS; fel. Anthrop. Asn. (pres, 56-57); Ethnol. Soc.(secy-treas, 42-44, 2nd v.pres, 44-46, 1st v.pres, 46, pres, 47); Philos. Soc. Plains Indian and Pueblo Indian cultures; primitive law. Publ: The law of primitive man: a study in comparative legal dynamics, Harvard Univ, 54; co-auth, The Cheyenne way, Univ. Oklahoma, 61; auth, Anthropology: the study of man, McGraw, 67. Address: Dept. of Anthropology, University of Minnesota, Minneapolis, Minn. 55455.

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HOEBER, PROF. RALPH C(ARL), b. Portland, Ore, May 11, 98; m. 44. BUSINESS LAW, ECONOMICS. B.A, Oregon, 21, M.A, 23; J.D, Stanford, 27; Ph.D.(econ), Wisconsin, 49. Instr. econ, Oregon, 23-25, asst. prof. speech & head div, 29-31; law practice, 27-29, 31-38; from asst. prof. to assoc. prof. econ. & bus. & chmn. dept, Hawaii, 38-56; vis. lectr. BUS. LAW, CALIFORNIA, LOS ANGELES, 55-56, from assoc. prof. to EMER. PROF, 56- Lectr, Northwest. Col. Law, 28-29, 31-38; economist, Off. Price Admin, Bonneville Power Admin, 42-43; vis. prof, Wisconsin, summer 53; vis. prof, For. Opers. Admin. & rep, Stanford Grad. Sch. Bus, Philippines, 54-55. U.S.A, 18. Fel. Int. Inst. Arts & Letters; Bus. Law Asn. (hon. pres, 62-63); Judicature Soc. Business law; public utilities and finance. Publ: Our goal, a sound economy and high standards of living, Stanford Univ. & For. Opers. Admin, Manila, 55; Role of the courts in public utility regulation, Univ. Wisconsin, 57; The courts on trial: verdict and remedy, Am. Bus. Law J, 8/63, rev. ed, Joint Cmt. Effective Admin. Justice, Am. Bar Center, Chicago & Div. Res, Grad. Sch. Bus. Admin, Univ. California, Los Angeles, 64. Address: 5792 Encina Rd, Goleta, Calif. 93017.

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HOECKER, DR. R(AYMOND) W(ILLIAM), b. Warrenton, Mo, Aug. 15, 13; m. 37; c. 4. MARKETING. B.S, Iowa State Col, 36; M.S, Cornell, 39, Ph.D. (mkt), 41. Asst. prof. agr. econ, Kans. State Col, 41-43; agr. economist, bur. agr. econ, U.S. DEPT. AGR, 44-45, asst. head div. mkt. & transportation, 46-47, head sect. transportation, mkt. res. div, 48-49, chief wholesaling & retailing res. br, 49-68, ASST. DIR, TRANSPORTATION & FACILITIES RES. DIV, 68- Dir. sales & res, U.S. Airlines, 46; prof, Maryland, 47-48. Mkt. Asn.(secy, 51, pres, 61); Agr. Econ. Asn. Food distribution. Address: 9100 Autoville Dr, College Park, Md. 20740.

HOEDEL, SISTER MARY CELESTINE, b. Wilkes-Barre, Pa, Jan. 2, 12. PSYCHOLOGY. B.S, Seton Hall, 50; M.A, Catholic Univ, 55; Ph.D.(psychol), St. John's (N.Y), 61. Teacher, parochial schs, Pa, 58-59, prin, N.Y, 61-62; instr. psychol. & philos, ASSUMPTION COL. SISTERS, 62-67, ASSOC. PROF. PSYCHOL, 67- Psychol. Asn. Child and educational psychology; guidance; psychology of personality. Publ: Types of secondary schools and development of religious vocations, Assumption Col, 6/62; The mentally retarded child and psychotherapy, Insight, fall 65; Secondary education and the teenager, J. Sec. Ed, 12/65. Address: Dept. of Psychology, Assumption College for Sisters, Mendham, N.J. 07945.

HOEFFDING, DR. OLEG, Econ, see 10th ed, Soc. & Behav. Vols.

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HOEHN, MERRILL W(ESLEY), b. Mt. Olive, Ill, Oct. 26, 11; m. 36; c. 1. ECONOMICS. A.B, Southern California, 49, M.B.A, 55. Acting asst. prof. bus. admin, California, Los Angeles, 53-55; lectr, Southern California, 56-57; COMMERCE AGENT, ATCHISON TOPEKA & SANTA FE RWY. CO, 57-U.S.A, 43-46. Econ. Asn. Economic theory, history and doctrines; trade and transportation; public utilities. Publ: New methods of financing railway equipment; Extension of Santa Fe Railway into Southern California. Address: 122 E. Tenth St, Hinsdale, Ill. 60521.

HOEHN-SARIC, DR. RUDOLF, Psychiat, see 11th ed, Phys. & Biol. Vols.

HOENE, ROBERT E, S.J, b. Duluth, Minn, Mar. 21, 20. PSYCHOLOGY. B.A, St. Louis, 44, A.M, & Ph.L, 47, S.T.B, 55; M.S, Marquette, 58; A.M, Loyola (Ill), 62, Ph.D.(psychol), 63. Instr. sci, St. John's Col, Brit. Honduras, 47-50; chaplain, hosps, Kans, Mo, Minn. & Ill, 54-55; asst. Gesu Church, Wis, 55; asst. prin, high sch, Wis, 55-56; res. assoc. human genetics, Argonne Nat. Lab, 56-58; instr. & athletic dir, high sch, Wis, 58-60; ASST. PROF, PSYCHOL, MARQUETTE, 63- Nat. Sci. Found. instnl. res. grant, Marquette, 65-66; res. assoc, Child Welfare League Am, Inc, 66-68. Consult. delinquent girls, Good Shepherd & Our Lady of Charity Homes, 63-; teaching of nursing by TV, St. Joseph's Sch. Nursing, Marquette, 67- Psychol. Asn; Acad. Relig. & Ment. Health. Human genetics through first cousin marriage; delinquent girls. Publ: Co-auth, Consanguineous marriages in the Chicago region, 58 & Effect of consanguinity on the distribution of continuously variable characteristics, 61, Am. J. Human Genetics, 61; auth, Psychosynthesis through love, Spiritual Life, 64. Address: Dept. of Psychology, Marquette University, 1131 W. Wisconsin Ave, Milwaukee, Wis. 53233.

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HOERNKE, DR. HUBERTUS, Econ, Math, see 10th ed, Phys. & Biol. Vols. Latest known address: Hart-Nibbrigkade 105, The Hague, Netherlands.

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HOFFENBERG, PROF. MARVIN, b. Buffalo, N.Y, July 7, 14; m. 47; c. 2. COMMERCE, BUSINESS. Stillman scholar, Ohio State, 39, univ. fel, 39-41, univ. scholar. & M.A, 40. Asst. chief div. interindust. econ, U.S. Bur. Labor Statist, 41-52; economist, Rand Corp, 52-56; dir. res, econ. consult. dept, deVegh & Co, 56-58; staff economist, Cmt. Econ. Develop, 58-60; proj. chmn, opers. res. off, Res. Anal. Corp. at Johns Hopkins, 60-63; dir. cost anal, Aerospace Corp, 63-65; res. economist, inst. govt. & pub. affairs & lectr. econ, CALIFORNIA, LOS ANGELES, 65-67, PROF. IN RESIDENCE POLIT. SCI, 67- Littauer fel, Harvard. Marshal Aid Prog. consult, U.S. Mutual Security Agency, Europe, 52; consult, U.S. Tech. Aid Mission, Govt. Norway, 55; Rand Corp, Systs. Develop. Corp. & TRW Systs, 67-Mem. exec. cmt, conf. res. income & wealth, Nat. Bur. Econ. Res; panel econ. experts, U.S. Arms Control & Disarmament Agency. Fel. AAAS; Econ. Asn; Statist. Asn. Income and wealth; economic models; organizational behavior and rational decision-making; urban planning. Publ: Co-auth, A time series analysis of inter-industry demand, North Holland, 49, The 1947 interindustry relations study, Rev. Econ. Statist, 5/52 & The economic effects of dissarmament, Sci. Am, 4/61. Address: Dept. of Political Science, 4289 Social Sciences Bldg, University of California, Los Angeles, Calif. 90024.

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HOFFER, DR. IRWIN SEYMOUR, Statist, see 10th ed, Soc. & Behav. Vols.

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HOFFMAN, DR. BARBARA ANN, b. New York, N.Y, Mar. 15, 27. CLINICAL PSYCHOLOGY. B.A, Southern California, 49; scholar. & M.A, MacMurray Col, 50; Off. Voc. Rehab. scholar, Houston, 54-56, Ph.D.(clin. psychol), 60. Res. asst, cerebral palsy clin, Hosp. Spec. Surg, New York, 50-51; prog. consult, State Soc. Crippled Children & Adults, Inc, Md, 51-54; psychologist, Houston Center Blind Children, Tex, 56-60; CLIN. PSYCHOLOGIST, 60- Psychol. Asn. Effects of children's behavior on parent behavior and vice versa; family group treatment with interests in pathology as it is expressed by a member or members for a family unit; group therapy for children and adolescents. Publ: Observations and work with pre-school blind children, Int. J. Ed. Blind. Address: 4443 Castor, Houston, Tex. 77022.

HOFFMAN, DR. BERNARD G(ILBERT), b. Butte, Mont, Dec. 14, 25; m. 57. ANTHROPOLOGY. B.A, Montana, 46; Ph.D.(anthrop), California, 55. Res. analyst, Indian Claims Sect, lands div, U.S. Dept. Justice, 55-57; res. assoc, Wash. Area Human Rels. Area File, 57-58; prfnl. asst, off. sci. info. serv, Nat. Sci. Found, 58-64, asst. prog. dir, div. pre-col. ed. sci, 64-65; ASSOC. PROF. ANTHROP, MARYLAND, 65- AAAS; Anthrop. Asn; Soc. Archaeol; Ethnohist. Soc; Ethnol. Soc. Human ecology; ethnology of North American Indians; ethnology of Southeast Asia and Morocco. Publ: Cabot to Cartier, Univ. Toronto, 61; The structure of traditional Moroccan rural society, Mouton, The Hague, 67; Observations on certain ancient tribes of the Northern Appalachian province, Smithsonian Inst. BAE Anthrop. Papers No. 70, 64. Address: 2522 Drexel St, Vienna, Va. 22180.

HOFFMAN, DR. CARL S(TUART), b. New York, N.Y, Nov. 10, 33; m. 60; c. 2. EXPERIMENTAL PSYCHOLOGY. B.B.A, City Col. New York, 55; M.S, Fla. State, 57, Ph.D.(psychol), 61. Asst. psychol, Fla. State, 55-60; asst. proj. engr, radio div, Bendix Corp, 60-61; sr. res. engr, res. & develop. sect, Autonetics Div, N.Am. Aviation, Inc, 61-67, RES. SPECIALIST, N.AM. ROCKWELL CORP, 67- Trainee, Vet. Admin. Hosp, Coral Gables, Fla, 59-60. AAAS; Psychol. Asn; Inst. Elec. & Electronics Eng. Human factors; color vision; learning; man-machine relationships; systems engineering; engineering psychology; control-display design; target recognition and designation; image interpretation. Publ: Auth, Comparison of monocular and binocular color matching, J. Optical Soc. Am; co-auth, Effect of blur and size on target recognition, Aerospace Med, 67; An experimental investigation of radar target designation tracking, Inst. Elec. & Electronics Eng. Transactions of Human Factors in Electronics, 67. Address: 202 S. Kathleen Lane, Orange, Calif. 92667.

HOFFMAN, DR. DOROTHY TENNOW, b. Montgomery, Ala, Aug. 29, 28; div; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 50; M.A, Connecticut, 54, Ph.D. (psychol), 64. Lectr. PSYCHOL, Willimantic State Col, 61-62; instr, Connecticut, 62-64; ASST. PROF, BRIDGEPORT, 64- Psychol. Asn. Experimental analysis of behavior; cigarette smoking. Address: Dept. of Psychology, University of Bridgeport, Bridgeport, Conn. 06602.

HOFFMAN, DR. E(LBERT) L(EE), b. Denver, Colo, May 4, 25; m. 58; c. 1. PSYCHOLOGY. B.A, Oklahoma, 48, M.S, 49; fel, Princeton, 49-50, M.A, 50, Ph.D, 53. Instr. psychol, Oklahoma Baptist, 48; asst, Oklahoma, 49; asst. prof. psychol. & staff assoc. res, urban life res. inst, TULANE, 51-56, ASSOC. PROF. PSYCHOL, Newcomb Col, 56-62, UNIV, 62-, DIR. FINANCIAL AID, 63-, assoc. dir. admissions, 62-63. U.S.A, 43-45. Psychol. Asn; Statist. Asn; Psychomet. Soc. Social psychology; leadership studies; test development; personality theory. Publ: Generalization and exposure time as related to autokinetic movement, J. Exp. Psychol; Objective peer evaluation scale, Ed. & Psychol. Measurement; Stability of autokinetic judgements, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, Tulane University, New Orleans, La. 70118.

HOFFMAN, FRED S, b. New York, N.Y, June 30, 24; m; c. 3. ECONOMICS, STATISTICS. B.A, California, Los Angeles, 47, M.A, 48; California, Berkeley, 49-51. Res. asst, inst. indust. rels, California, Los Angeles, 47-48; systs. analyst, Rand Corp, 51-59, 60-63; Rand rep, directorate plans, hq, U.S. Air Force, D.C, 59-60; acting dir, U.S. team for NATO force planning, U.S. del, NATO, 63-64; dep. asst. secy, Off. Secy. Defense, 65-67; ASST. DIR, U.S. BUR. BUDGET, 67- U.S.A.F, 43-46, 1st Lt. Statist. Asn; Opers. Res. Soc; Econ. Asn. Address: U.S. Bureau of the Budget, Executive Office of the President, Washington, D.C. 20503.

HOFFMAN, PROF. GEORGE W, b. Vienna, Austria, June 19, 14; nat; m. 44; c. 2. GEOGRAPHY. B.A, Commercial Acad, Vienna, 34; Vienna, 35-37; American Univ, 43-44; Harvard, 46-47; fel, Michigan, 48-49, Ph.D, 50. Res. analyst, Off. Strategic Serv, D.C, 43-45; instr, Indiana, 47-48; from asst. prof. to assoc. prof. GEOG, TEXAS, 49-61, PROF, 61- Fund Adv. Ed. fel, 52-53; Soc. Sci. Res. Coun. fel, 53, 57; Am. Philos. Soc. fel, 57, 62; dir. res, Twentieth Century Fund, 58-62; Fulbright lectr, Germany, 61-62; Nat. Sci. Found. res. grants, 64-69. Past pres. & mem. exec. cmt, Southwest. Slavic Conf, Soc. Sci. Res. Coun-Am. Coun. Learned Socs, 64-, mem. subcmt. East. & Southeast. Europe, Joint Slavic Cmt, 66- U.S.A, 43-45. Asn. Am. Geog; fel. Am. Geog. Soc; fel. Royal Geog. Soc. Economic and political geography; geography of Europe and Southeast Europe. Publ: Ed, A geography of Europe: co-auth, Yugoslavia and the new Communism; Balkans in transition, Van Nostrand, 63. Address: Dept. of Geography, University of Texas, Austin, Tex. 78712.

HOFFMAN, PROF. G(EORGE) WRIGHT, Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

HOFFMAN, HARMON L(ESLIE), Psychol, see 10th ed, Soc. & Behav. Vols.

HOFFMAN, PROF. H(ENRY) THEODORE, Econ, see 10th ed, Soc. & Behav. Vols.

HOFFMAN, DR. HERBERT J(ACOB), b. Manchester, N.H, Mar. 18, 32; m. 58; c. 2. CLINICAL PSYCHOLOGY. B.A, Harvard, 54; M.A, Boston, 57, Ph.D. (clin. psychol), 63. Exec. dir, Brookline Asn. Ment. Health, Mass, 62-65; chief ment. health coordinator, div. ment. hyg, Mass. Dept. Ment. Health, 65-67; ASST. PROF. RES. & PROJ. DIR, PRE-SCH. CHILD CARE, FLORENCE HELLER SCH, BRANDEIS, 67- A.U.S, 54-56. Psychol. Asn; Soc. Psychol. Study Social Issues. Community mental health; child care; mental health administration. Publ: Paid employment as a rehabilitative technique in a state mental hospital, Ment. Hyg, 4/65. Address: 39 Grove St, Auburndale, Mass. 02166.

HOFFMAN, DR. HERBERT N(ATHANIEL), b. New York, N.Y, June 30, 25; m. 50; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 47; M.A, N.Y. Univ, 48, Ph.D.(psychol), 53. Teacher, pub. schs, N.Y, 48-57; res. assoc. PSYCHOL, New York Bd. Ed, 58-67; ASSOC. PROF, RICHMOND COL.(N.Y), 67-; DIR. PSYCHOTHER, HILLSIDE PSYCHOL. CENTER, 66- Psychol. Asn. Psychotherapy; concept formation. Publ: Study in an aspect of concept formation, with subnormal, average and superior adolescents, Genetic Psychol. Monogr. Address: 213-16 Hillside Ave, Queens Village, N.Y. 11427.

HOFFMAN, DR. HOWARD S(TANLEY), b. New York, N.Y, May 23, 25; m. 52; c. 3. PSYCHOLOGY. B.A, New Sch. Soc. Res, 52; M.A, Brooklyn Col, 53; fel, Connecticut, 53-56, Ph.D.(psychol), 57. Asst, Connecticut, 55, instr, 56-57; asst. prof. PSYCHOL, PA. STATE, 58-63, ASSOC. PROF, 63- Summers, res. psychologist, Haskins Labs, N.Y, 54; New London Submarine Base, 56; instr, Connecticut, 57. Consult, HRB-Singer, Inc, 58- Mem. review panel, Nat. Sci. Found. Undergrad. Participant Grants, 66-67. U.S.A, 43-45. Fel. Psychol. Asn; Ecol. Soc. Experimental analysis of behavior; auditory perception; mathematical models; imprinting; acoustic startle; aversive control. Publ: Co-auth, Acoustic variables in the modification of startle reaction in the rat, J. Comp. & Physiol. Psychol, 60: 53-58; co-auth, Behavioral control by an imprinted stimulus, J. Exp. Anal. Behav, 5/66; auth, The analysis of discriminated avoidance, In: Operant behavior areas of research and application, Meredith, 66. Address: Dept. of Psychology, Pennsylvania State University, University Park, Pa. 16802.

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HOFFMAN, DR. JOHN DAVID, b. St. Catharines, Ont, Aug. 17, 36; m. 57; c. 2. POLITICAL SCIENCE. B.A, McMaster, 58; Can. Coun. scholar. & M.A, Toronto, 58; Can. Coun. fel, London. Sch. Econ, 60, Ph.D.(polit. sci), 63. Asst. POLIT. SCI, Glasgow, 61-63; ASST. PROF, McMaster, 63-65; YORK

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HOFFMAN, PROF. JOYCE M(ARIE), b. Mansfield, Ohio, Oct. 8, 30. SOCIAL PSYCHOLOGY. A.B, Baldwin-Wallace Col, 52; A.M, Boston, 54, fel, 56-57, Ph.D, 60. Psychol. res. technician, Mass. Gen. Hosp, 55-56; lectr. gen. psychol, Boston, 58-60, instr. psychol, 60-64, assoc. soc. psychol, grad. sch, 61-64; PROF. PSYCHOL, NEWTON COL. SACRED HEART, 64- Trainee psychol. serv, Vet. Admin. Hosp, Brockton, Mass, 57-60, coordinator soc. psychol. res, 60- AAAS; Psychol. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues. Group dynamics; small and psychotherapy groups; sociological theory; statistical models; content analysis. Publ: Co-auth, Note on some problems of measurement and prediction in a training group, In: Group training versus group therapy; An examination of some models applied to group structure and process, Int. J. Group Psychother, 4/65; auth, Roadsigns and readings: a view of social psychology, Catholic Psychol. Record, 67. Address: 83 Grozier Rd, Cambridge, Mass. 02138.

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HOFFMAN, DR. LOIS W(LADIS), b. Elmira, N.Y, Mar. 25, 29; m. 51; c. 1. SOCIOLOGY. B.A, Buffalo, 51; M.S, Purdue, 53; Ph.D, Michigan, 58. Res. assoc, res. center group dynamics, MICHIGAN, 56-60, consult, psychol. clinic, 59-60, LECTR. PSYCHOL, 60- Consult, Mich. Youth Cmn, 58-59. Psychol. Asn; Sociol. Asn; Soc. Res. Child Develop. Family structure and interaction; maternal employment; socialization of children. Publ: Co-auth, Measurement of family life variables, In: Handbook of research methods in child development; and The employed mother in America, Rand McNally, 63; co-ed, Review of child development research, Russell Sage, Vol 1, 64, 2, 66. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

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HOFFMAN, DR. SIMON, b. Brooklyn, N.Y, Oct. 8, 20; m. 45; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 42; M.A, Columbia, 47, Ed.D.(counseling psychol), 57. Guid. counsr, Brooklyn Col, 46-47; training officer, U.S. Vet. Admin, N.Y, 47; counsr, N.Y. Guild Blind, 48-54, supvr. voc. serv, 54-58; EXEC. DIR, JEWISH VOC. SERV, INC, BOSTON, 58- Lectr, Boston, 59- Exec. adv, Rehab. Serv. & Kirstein Scholar. Fund, Boston, 58- Consult. in rehab, U.S. Soc. Security Admin, Boston, 60-; consult, Boston Aid to Blind, Inc, 58-60. U.S.A.A.F, 42-46; Nat. Guard, 48-50, 1st Lt. Psychol. Asn. Vocational development and rehabilitation; educational and vocational planning; school and job adjustment. Publ: Predicting manual work success of blind persons & Diagnosis and evaluation in counseling, Personnel & Guid. J; Operating a contract shop for the blind, J. Rehab. Address: 785 Washington St, Brookline, Mass. 02146.

HOFFMAN, PROF. WILLIAM C(HARLES), Appl. Math, see 11th ed, Phys. & Biol. Vols.

HOFFMANN, PROF. BANESH, Math. Physics, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HOFFMANN, PROF. CHARLES, b. New York, N.Y, Jan. 10, 21; m. 53; c. 2. ECONOMICS. A.B, Queens Col, 42; A.M, Columbia, 47, Ph.D.(econ), 54. From instr. to asst. prof. ECON, Queens Col, 48-63; assoc. prof. & acting chmn. dept, STATE UNIV. N.Y. STONY BROOK, 63-65, PROF, 65-, faculty fel, summer, 65, asst. to acad. v.pres, 65-67. Soc. Sci. Res. Coun. fel, 61-62, summer grants econ. China, 63-64. U.S.N.R, 42-46, Lt. AAAS; Econ. Asn; Econ. Hist. Asn; Asn. Asian Studies; Asn. Evolutionary Econ. United States economic history and development, cyclical and secular; comparative and Chinese economic development; labor and monetary institutions in Mainland China. Publ: Depression of the nineties, J. Econ. Hist; Work incentive practices and policies in the People's Republic of China, 1953-65, State Univ. N.Y, 67; co-auth, Work incentives in Chinese industry and agriculture, In: An economic profile of Mainland China, U.S. Cong. Joint Econ. Cmt, 66. Address: Dept. of Economics, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

HOFFMANN, DR. HANS, b. Koblenz, Germany, Feb. 8, 29; nat; m. 50; c. 3. ANTHROPOLOGY. A.B, Cornell, 51; Ph.D, Yale, 57. Instr. ANTHROP, Oklahoma, 56-57; asst. prof, Arkansas, 59-61; STATE UNIV. N.Y. BINGHAMTON, 61-66, assoc. prof, 66-68, PROF, 68- Fel. Anthrop. Asn; Soc. Am. Archaeol; Arctic Inst. N.Am. Ethnography; ethnology of the Ucayali river tribes, eastern Peru; ethnology of the Eskimo and Cree, Hudson's Bay, Canada; mathematical culture theory. Publ: Symbolic logic and the analysis of social organization, Behav. Sci, 10/59; Money ecology and acculturation among the Shipibo of Peru, In: Explorations in cultural anthropology, McGraw, 64; Mathematical structures in ethnological systems, In: Proceedings of the 1967 spring annual meeting, American Ethnological Society, Univ. Washington, 68. Address: Dept. of Anthropology, State University of New York at Binghamton, Binghamton, N.Y. 13901.

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HOFFMANN, PROF. THOMAS R, b. Milwaukee, Wis, Sept. 10, 33; m. 57; c. 1. BUSINESS ADMINISTRATION. B.S, Wisconsin, 55, M.S, 56, Ph.D.(indust. eng), 59. Eng. aide, civil eng, City of Milwaukee, 51-55; eng. trainee, mech. eng, Allis-Chalmers Mfg. Co, 56-57; instr. indust. eng, Wisconsin, 57-59, asst. prof. commerce, 59-63; assoc. prof. bus. admin, MINNESOTA, MINNEAPOLIS, 63-65, PROF. PROD, 65-, chmn. dept. mgt, prod. & transportation, 65-67. Inst. Indust. Eng; Opers. Res. Soc; Asn. Comput. Mach. Computer assisted decision making, especially simulation, linear programming, inventory control, management games, and information systems. Publ: Production: management and manufacturing systems, Wadsworth, 67; Assembly line balancing with a precedence matrix, Mgt. Sci, 7/63; Programmed heuristics and the concept of par in business games, Behav. Sci, 4/65. Address: 4501 Sedum Lane, Edina, Minn. 55435.

HOFFMEISTER, PROF. HAROLD ARTHUR, b. Ft. Madison, Iowa, Jan. 12, 00; m. GEOGRAPHY. A.B, Colorado, 25; Ph.D.(geog), Chicago, 39. Instr, COLORADO, 25-26, from asst. prof. to assoc. prof. GEOG, 29-42, prof, 42-65, EMER. PROF, 65- U.S.N, 17-19. Asn. Am. Geog. Geography of arid and mountainous regions. Address: 2270 Grape Ave, Boulder, Colo. 80302.

HOFFSOMMER, PROF. HAROLD C(HARLES), b. Roxbury, Kans, Dec. 8, 98. SOCIOLOGY. B.S, Northwestern, 21, A.M, 23; Ph.D, Cornell, 29. Instr, N.Dak. Agr. Col, 24-26; specialist rural sociol, 26-27; asst, Cornell, 27-29; prof. sociol, Ala. Polytech, 29-35; Louisiana, 36-42; dir, Regional Land Tenure Res. Proj, 42-45; PROF. SOCIOL, MARYLAND, 46-, head dept, 46-66. Area leader, Div. Farm Pop. & Rural Welfare; dir, Surv. Rural Prob. Areas in Old South. Consult, Ford Found, India, 61. Ed, Rural Sociol. Sociol. Asn; Rural Sociol. Soc. Rural sociology; agriculture labor. Publ: Social and economic significance of land tenure in the southwestern states; sociology of American life. Address: 6900 Dartmouth Ave, College Park, Md. 20740.

HOFHEINZ, DR. ROY, JR, b. Houston, Tex, Dec. 18, 35; m. 63; c. 1. POLITICAL SCIENCE. B.A, Rice Inst, 57; B.A. & M.A, Oxford, 58; Ph.D.(polit. sci), Harvard, 66. INSTR. GOVT, HARVARD, 66- Chinese politics, especially rural revolution and Chinese Communist behavior. Publ: Rural administration in Communist China, China Quart, 9/62. Address: Dept. of Government, Harvard University, Cambridge, Mass. 02138.

HOFLICH, PROF. HAROLD J(OHN), b. Albany, Ore, Sept. 7, 02; m. 39; c. 1. BUSINESS, ECONOMICS. A.B, Oregon, 25; Ph.D.(econ), California, 33. From instr. to asst. prof. econ. & bus, St. Mary's Col.(Calif), 32-34; Hawaii, 34-39; lectr. econ, California, 39-40, 46-47; asst. prof, Kent State, 40-41; econ. analyst, U.S. Dept. Treas, 41-43, 45-46; econ. analyst, chief econ. anal. sect. & asst. dir. res, Off. Inter-Am. Affairs, 43-45; res. specialist, res. dept, Fed. Reserve Bank of San Francisco, 47-48; prof. bus. admin. & dir. bur. bus. & econ. res, Montana, 48-55; PROF. bus. admin, ARIZONA, 55-66, FINANCE, 66-, assoc. dir. & res. dir, bur. bus. & pub. res, 55-63, dir, 63-66. Chief U.S. Treas. rep. & Treas. attache, U.S. Embassy, Manila, Philippine Islands, 46; prof. bus. admin, Univ. California-Ford Found. Econ. Proj, Univ. Indonesia, 59-61. Econ. Asn. Publ: Indonesian insurance monographs; co-auth, Population and income in Montana & The economy of Montana. Address: Dept. of Finance, Insurance & Real Estate, University of Arizona, Tucson, Ariz. 85721.

HOFLING, DR. CHARLES KREIMER, b. Cincinnati, Ohio, Apr. 22, 20; m. 45; c. 4. PSYCHIATRY. B.A, Cincinnati, 42, M.D, 46; Pennsylvania, 42-43. Intern, Cincinnati Gen. Hosp, 46-47, asst. res. PSYCHIAT, 47-48, chief res, 49-50; res, Winter Vet. Admin. Hosp, Topeka, Kans, 48-49; instr, COL. MED, CINCINNATI, 50-55, asst. prof, 55-64, ASSOC. PROF, 64-, lectr, Grad. Sch. Arts & Sci. & Col. Nursing, 56- Res. fel, May Inst, Jewish Hosp, Cincinnati, 47-48; fel, Menninger Found. Sch. Psychiat, Topeka, Kans, 48-49. Med.C, U.S.A.F, 52-54, Res, 54-59, Capt. AAAS; Psychosom. Soc; Psychiat. Asn; Am. Med. Asn. Professional relationships in medicine and nursing; application of psychoanalytic thought to literary and historical criticism; creativity studies. Publ: Co-auth, Basic psychiatric concepts in nursing, 1st ed, 61, 2nd ed, 67 & auth, Textbook of psychiatry for medical practice, 1st ed, 63, 2nd ed, 68, Lippincott; Shakespeare's Cymbeline, In; Shakespeare studies, Univ. Cincinnati, 65. Address: Cincinnati General Hospital, 3231 Burnet Ave, Cincinnati, Ohio 45229.

HOFMAN, DR. CORNELIUS ADRIANUS, b. Rotterdam, Netherlands, Aug. 4, 32; U.S. citizen; m. 56; c. 4. ECONOMICS. B.S, Utah, 57, Ph.D.(econ), 64. Asst. prof. ECON, Idaho State, 60-65; assoc. prof, Utah State, 65-67; ASSOC. PROF. & HEAD DEPT, MIDDLE TENN. STATE, 67- U.S.A.F, 51-52. Econ. Asn. State and local economic problems, primarily taxation. Publ: An evaluation of the Idaho tax structure, Idaho State Univ, 64; co-auth, The household appliance industry in Utah, Econ. Res. Inst, Utah State Univ, 67. Address: Dept. of Economics, Middle Tennessee State University, Murfreesboro, Tenn. 37130.

HOFMANN, DR. HELMUT PHILIPP, b. Heidelberg, Germany, Apr. 27, 26; nat; m. 53; c. 1. EDUCATIONAL PSYCHOLOGY. Dipl, Teacher Training Col, Mannheim, Germany, 47; Maryland, 49-50; Ph.D, Heidelberg, 55. Teacher, elem. sch, Germany, 47-59; dir. psychol. serv, City Sch. Syst. Mannheim, 51-55; res. coordinator child develop. res. prog, Henry Ford Mus, Mich, 56-61; assoc. prof. psychol, Mercy Col, 61-62; prof, Utah State, 62-66, head dept, 64-66, acting head dept. spec. ed, 63-66; prog. dir. ed, Rocky Mt. Ed. Lab, 66-67; ACAD. V.PRES, COL. ADMIN, WEBER STATE COL, 67- Summers, dir. workship, state elem. suprvs, Utah State, 61, consult, col. ed, Arkansas, 61, workshop, Idaho State, 65-66; Consult, Upward Bound Prog, 66-; field reader, res. bur, Regional U.S. Off. Ed, Denver, 67- German Army, 43-45. Psychol. Asn; Asn. Res. Growth Relationships. Readiness for school; growth and development of retarded children; use of teaching machines. Publ: Translating inert into living knowledge, Curator; Hilfsschulkind und familienstrucktur, 63 and Zum problem des schwachsinns in den USA, 65, Zeitschrift fuer Heilpaedagogik. Address: 4048 Skyline Dr, Ogden, Utah 84403.

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HOGAN, DR. EDWARD W, b. Chester, Pa, Jan. 17, 25; m. 67; c. 1. PSYCHOLOGY. B.A, St. Mary's Col.(Conn), 47; M.Ed, Duquesne, 52; Ph.D.(psychol), Fordham, 59; Strasbourg, 65-66. Instr. psychol, Duquesne, 53-54, 59, asst. prof, 59-63, assoc. prof, 63-67, assoc. chmn. dept, 61-67; assoc. prof, Mt. Umion Col, 67-68, PROF. PSYCHOL. & CHMN. DEPT. BEHAV. SCI, POINT PARK COL, 68- Psychol. Asn, Acad. Relig. & Ment. Health. The area where the disciplines of religion and psychology interact. Address: 1067 Balmoral Dr, Pittsburgh, Pa. 15237.

HOGAN, PROF. JOHN A(RTHUR), b. Boise, Idaho, Aug. 11, 09. ECONOMICS. A.B, Washington (Seattle), 32, A.M, 34; fel, Harvard, 40-41, Ph.D, 52. Mem. bur. labor statist, U.S. Dept. Labor, 35; asst. prof, Denver, 35-39; economist, War Labor Bd, New Eng, 42-44, disputes dir, 44-45; assoc. prof. ECON, NEW HAMPSHIRE, 45-50, PROF, 50- Lectr, Radcliffe Col, 46-52. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Labor; Marcel Proust's aesthetic theory; meaning of the union shop election. Publ: New England economy. Address: Dept. of Economics, University of New Hampshire, Durham, N.H. 03824.

HOGAN, DR. JOHN D(ONALD), b. Binghamton, N.Y, July 16, 27; m. 50; c. 2. ECONOMICS. A.B, Syracuse, 49, A.M, 50, fel. & D.Soc.Sc, 52. Asst. prof. econ, Russell Sage Col, 52-55; assoc. prof. & head dept, Bates Col, 55-59; fiscal adv. to comptroller, State of N.Y, 59-60; staff economist & res. dir, Northwest. Mutual Life Ins. Co, Wis, 60-67; V.PRES. RES. & PLANNING, NATIONWIDE INS. CO, 68- Lectr, Wisconsin, Milwaukee, 60-67; Marquette, 60-68; Ohio State, 68. Consult, State Dept. Ed, N.Y, 54; U.S. Dept. Defense, 55-64; Boston Metrop. Dist. Cmn, 58; City Tax Cmnr. Off, Milwaukee, 60-65; State Tax Cmnr. Off, Madison, 65- U.S.A.R, 44-65, Maj. Econ. Asn; Statist. Asn; Econom. Soc; Inst. Mgt. Sci; Opers. Res. Soc. Computer simulation of business systems; business planning; international finance; government finance. Publ: The United States balance of payments and capital flows, Praeger, 67; The use of operations research in field planning, 66 & Corporate models for long-range planning, 68, Proc. Symp. Opers. Res. Ins, Int. Bus. Mach. Corp. Address: 4436 W. Castleton Rd, Columbus, Ohio 43221.

HOGAN, DR. RALPH M(ONTAGUE), b. Glasgow, Mo, June 5, 90; m. 10; c. 2. PSYCHOLOGY. Pd.B, Mo. State Teachers Col, 11; S.B, Chicago, 15, A.M, 16, Ph.D.(ed. psychol), 27; Cert. Col. Chinese Studies, 24. Supt. schs, Mo, 08-15; acting prof. ed, Cent. Col.(Mo), 16-17; head exp. jr. high sch, N.Dak. State Teachers Col, 17-18; secy. int. cmt, YMCA, 18-34; head training br, Tenn. Valley Authority, 34-36; personnel methods consult, Soc. Security Bd, 36-39; chief training, Rwy. Retirement Bd, 39-40; prin. training adv, U.S. Civil Serv. Cmn, 40-45; field rep, Off. Strategic Servs, China, 45-46, Off. Naval Res, 46-53; LECTR. statist, sch. bus. & pub. admin, MISSOURI, COLUMBIA, 57-62, INDUST. ENG, 62- Analysis of work performance of professional workers; scientific personnel and its relation to the conduct of research in government, industry and universities; data processing; mathematical programming; operations research. Address: Dept. of Industrial Engineering, University of Missouri, Columbia, Mo. 65201.

HOGAN, DR. ROBERT A, b. Cleveland, Ohio, Mar. 29, 32; m. 56; c. 4. PSYCHOLOGY. B.S.S, John Carroll, 56; M.S, Denver, 57; Cleveland Marshall Law Sch, 59-60; D.Ed.(ed. psychol), Western Reserve, 63. Staff psychologist, Cath. Child Guid. Clin, Ohio, 57-59; Huron County Ment. Health Clin, Ohio, 60-61; Hawthornden State Hosp, Ohio, 61-63; ASSOC. PROF. PSYCHOL, ILLINOIS STATE, 63- Consult, Huron County Bd. Ed, Ohio, 60-61; Marycrest Sch. Girls, Ohio, 61-63; Parma Sch. Bd. Ed, Ohio, 61-; Family Serv. McLean County, Ill, 63- U.S.M.C, 49-52, Sgt. Psychol. Asn. Clinical and experimental psychotherapy techniques. Publ: Implosive therapy in short term treatment of psychotics, 3: 25-32 & co-auth, Therapist variable in implosion of phobias, 3: 102-104, Psychotherapy; co-auth, Extinction of fears by short-term implosive therapy, J. Abnorm. Psychol, 72: 106-109. Address: Dept. of Psychology, Illinois State University, Normal, Ill. 61761.

HOGAN, DR. THOMAS WAGNER, b. Miami, Fla, July 21, 37. PSYCHOLOGY. B.A, Florida, 59; M.A, Arkansas, 61, Ph.D.(psychol), 64; Stanford, 63-64. ASST. PROF. PSYCHOL, AGNES SCOTT COL, 65- AAAS; Psychol. Asn. Learning theory; experimental analysis of behavior; philosophical psychology. Address: Dept. of Psychology, Agnes Scott College, Decatur, Ga. 30030.

HOGAN, PROF. WILLARD N(EWTON), b. Dry Ridge, Ky, Mar. 26, 09; m. 37; c. 3. POLITICAL SCIENCE. A.B, Transylvania Col, 30; M.A, Kentucky, 34; Ph.D.(int. rels), Chicago, 39. With U.S. Govt, 37-45; assoc. prof. hist. & polit. sci, Berea Col, 45-49; PROF. POLIT. SCI, State Univ. N.Y. Col. New Paltz, 49-63; NEBRASKA, 63-, CHMN. DEPT, 67- Sr. staff mem, Brookings Inst, 52. Consult, UN proj, 52-55. Mem, Cmn. Study Orgn. Peace, 56- Polit. Sci. Asn. International organization; foreign policy. Publ: Co-auth, The United Nations, McGraw, 52; auth, International conflict and collective security, Univ. Kentucky, 55; Representative government and European integration, Univ. Nebraska, 67. Address: Dept. of Political Science, University of Nebraska, Lincoln, Nebr. 68508.

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Ph.D, Princeton, 65. Admin. asst, Off. Gov, N.J, 59-60; exec. asst, Off. U.S. Senator Harrison Williams, 60-61; res. asst, Princeton, 61-65; ASST. PROF. POLIT. SCI, Rider Col, 65-68; MASSACHUSETTS, 68- Staff dir, Gov. Migrant Labor Task Force, 67-68. U.S.M.C.R, 55-57, 1st Lt. Polit. Sci. Asn; Soc. Pub. Admin. State and local government; public administration. Publ: New Jersey farmers and migrant housing rules, 65 & The Delaware drought emergency, 68, Bobbs; Governor Leon Abbett's battle to tax the railroads, N.J. Hist. J, 66. Address: 215 Green St, Marblehead, Mass. 01945.

HOGBERG, DR. DAVID K(LAS), Physiol. Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HOGGATT, DR. AUSTIN C(URWOOD), b. Buffalo, N.Y, Aug. 31, 29; m. 52; c. 4. BUSINESS ADMINISTRATION, STATISTICS. S.B, Northwestern, 51; fel, Minnesota, 53, M.A, 54, Ph.D, 57. Mgt. consult, Griffenhagen & Assoc, Ill, 51-52; asst, indust. rels. center, Minnesota, 52-53; instr. statist, 53-54, bus. admin, 54-55; comput. programmer, Burroughs Corp, Pa, 54; mathematician, Int. Bus. Mach. Corp, N.Y, 55-58; asst. prof. BUS. ADMIN, CALIFORNIA, BERKELEY, 58-60, ASSOC. PROF, 60- Fel. AAAS; Inst. Mgt. Sci. Instrumentation in the social and behavioral sciences; problems of man-machine communication and the scientific management of computation and information processing activities. Publ: Simulation study of an economic model, In: Contributions to scientific research in management; Simulation of the firm; Experimental business game, Behav. Sci. Address: School of Business Administration, University of California, Berkeley, Calif. 94704.

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HOGLUND, PROF. C(ARL) RAYMOND, b. McPherson, Kans, Nov. 12, 06; m. 30; c. 1. AGRICULTURAL ECONOMICS. B.S, Minnesota, 40, M.S, 41. Assoc. prof. farm mgt. res. & teaching, S.Dak. State Col, 43-48; asst. prof. farm mgt. res, MICH. STATE, 48-55, assoc. prof. AGR. ECON, 55-64, PROF, 64- With bur. agr. econ, U.S. Dept. Agr, 48-55. Mem, Int. Grassland Cong. Merit award, Am. Grassland Coun, 62. Fel. AAAS; Agr. Econ. Asn; Dairy Sci. Asn; Int. Conf. Agr. Econ. Adjusting dairying to new technologies and price relationships; economic aspects of forage production, harvesting, storage and utilization; labor efficiency as affected by dairy housing facilities. Publ: The dairy industry, the dairy farm enterprise, Mich. Agr. Exp. Sta. Res. Report, 66; Efficiency as represented by a Great Lake States, U.S. A. dairy farm, Proc. X Int. Grassland Cong, Helsinki, Finland, 66; Economic effects of high-level grain feeding, J. Dairy Sci, 64. Address: 326 Kedzie Dr, East Lansing, Mich. 48823.

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HOHENTHAL, PROF. W(ILLIAM) D(ALTON), JR, b. Corning, Calif, Mar. 13, 19. ANTHROPOLOGY. A.B, California, 41, Ph.D, 51. Asst. ANTHROP, California, 48-51, res. assoc, 51-53; from asst. prof. to PROF, SAN FRANCISCO STATE COL, 53- Soc. Sci. Res. Coun. fel, Brazil, 51-52; vis. lectr, California, Los Angeles, 52-53. U.S.A, 41-47, Lt. Col. Fel. AAAS; fel. Anthrop. Asn. Cultural and physical anthropology; ethnography of eastern South America, especially Brazil and Baja, California, Mexico. Publ: Little known groups of Indians reported in 1696 on the Rio São Francisco in northeastern Brazil; Notes on the Shucuru Indians of Serra de Araraba, Pernambuco, Brazil. Address: Dept. of Anthropology, San Francisco State College, San Francisco, Calif. 94132.

HOHLE, DR. RAYMOND H, b. Marshall Co, Minn, Mar. 7, 28; m. 51; c. 6. PSYCHOLOGY. B.A, Nevada, 54; M.S, Oregon, 56; Ph.D.(psychol), 61. Asst. prof. PSYCHOL, IOWA, 61-65, ASSOC. PROF, 65- U.S.M.C, 46-49. AAAS; Am. Psychol. Asn; Psychomet. Soc. Psychophysics and perception; statistics and measurement. Publ: Inferred components of reaction time as functions of foreperiod duration, 65 & Detection of a visual signal with low background noise, 65, J. Exp. Psychol; An empirical evaluation and comparison of two models for discriminability scales, J. Math. Psychol, 66. Address: Institute of Child Behavior & Development, University of Iowa, Iowa City, Iowa 52240.

HOHMAN, PROF. ELMO PAUL, b. Salem, Ill, Jan. 27, 94; m. 19; c. 1. LABOR ECONOMICS. A.B, Illinois, 16, A.M, 17; Ricardo scholar & A.M, Harvard, 20, Ph.D, 25. Tutor, div. hist, govt. & econ, Harvard, 20-23; instr. ECON, NORTHWESTERN, 23-25, asst. prof, 25-31, assoc. prof, 31-38, prof, 38-62, EMER. PROF. 62- Soc. Sci. Res. Coun. traveling fel, 28-30; observer & vis. scholar, Int. Labor Off, 28-29, 36-37, 46, 58-59, 63-64. Adv. cmt, U.S. Maritime Cmn, 37; spec. appeals hearing officer, State Unemploy. Compensation Cmn, Ill, 39-42; Nat. Minimum Wage Bds, Tobacco Mfrs. & Glove Indust, 41-42; price exec, Chicago Regional & Metrop. Offs, Off. Price Admin, 42-44; v.chmn. shipbuilding cmn. & war shipping panel, Nat. War Labor Bd, 44-45; chmn. adv. cmt, Yale Fund Seaman's Studies, 46-; mem. panel arbitrators, Fed. Mediation & Conciliation, 46; historian, United Seaman's Serv, 46-52. Econ. Asn; Indust. Rels. Res. Asn. Maritime labor; collective bargaining; international labor. Publ: American Whaleman; Seamen ashore; History of American merchant seamen. Address: 625 Haven St, Evanston, Ill. 60201.

HOHMAN, DR. HELEN FISHER, b. Geneseo, Ill, Aug. 2, 94; m. 19; c. 1. ECONOMICS. A.B, Illinois, 16; A.M, Columbia, 19; fel, Chicago, 23-25, Ph.D, 28. Lectr, Chicago, 26; Soc. Sci. Res. Coun. traveling fel, 28-29; soc. economist, Soc. Security Bd, D.C, 36-37; lectr, Northwestern, 37-41, 42-45, 56-60; prof, sch. soc. serv. admin, Chicago, 49-55; lectr, Kendall Jr. Col, 57-63; PRFNL. VOL. PROTECTIVE SERV. OLDER ADULTS IN METROP. CHICAGO, WELFARE COUN. METROP. CHICAGO, 64- Fulbright vis. prof, Southampton, Eng, 51. Del, White House Conf. Aging, 61. Hart, Schaffner & Marx prize, 28; Sr. Citizens Hall of Fame of Chicago award, 65. History of social welfare; social security; development of social insurance and minimum wage legislation in Great Britain. Publ: Development of social insurance and minimum wage legislation in Great Britain; Old age in Sweden; co-auth, The impact of international minimum labor standards upon developing countries, J.C.B. Mohr, Tubingen W.Germany, 64. Address: 625 Haven St, Evanston, Ill. 60201.

HOHMANN, DR. GEORGE W(ILLIAM), Clin. Psychol, see 11th ed, Phys. & Biol. Vols.

HOIBERG, PROF. OTTO G(IEDE), b. Dannebrog, Nebr, Jan. 22, 09; m. 33; c. 4. SOCIOLOGY. B.A, Drake, 31; M.A, Nebraska, 33, Ph.D.(sociol), 44; summers, Minnesota, 37-40. Instr, pub. sch, Nebr, 34-35; supt. schs, Minn, 35-42; assoc. prof. sociol, Cent. Col.(Mo), 43-45; S.Dak. State Col, 45; sociologist, U.S. Off. Mil. Govt. for Germany, 45-48; from assoc. prof. to PROF. SOCIOL, UNIV. & HEAD COMMUNITY DEVELOP, EXTEN DIV, NEBRASKA, 48-, chief univ. faculty in Turkey, 57-59. Head Hall of Youth, Nebr. Center Continuing Ed, 59-65. Mem, Temporary Cmn. on Continuing Ed, United Presby. Church, 66-69. Sociol. Asn; Rural Sociol. Soc; Adult Ed. Asn. Rural community. Publ: Exploring the small community; co-auth, Sociology in use, Macmillan, 65; Sociology in action, Dorsey, 66. Address: 2010 S. 26th St, Lincoln, Nebr. 68502.

HOISMAN, DR. ALAN JAY, b. Chicago, Ill, Oct. 6, 32; m. 58. INDUSTRIAL PSYCHOLOGY. B.A, Southern California, 54; M.A, Calif. State Col. Los Angeles, 57; Ph.D.(psychol), Purdue, 61. Soc. scientist, Syst. Develop. Corp, 56-58; res. scientist, Am. Insts. Res, 61-63; assoc. scientist, Dunlap & Assocs, 63-65; MANAGING SCIENTIST, SERENDIPITY ASSOCS, 65- Psychol. Asn; Human Factors Soc. Application of system analysis techniques to medical research and to research planning; development of analytic techniques for the study of man's role in complex systems. Address: 3729 Ventura Canyon Ave, Sherman Oaks, Calif. 91403.

HOLBEN, PROF. R(ALPH) P(ENROSE), Sociol, see 10th ed, Soc. & Behav. Vols, deceased 65.

HOLBIK, PROF. KAREL, b. Prague, Czech, Sept. 9, 20; nat; m. 56; c. 1. INTERNATIONAL ECONOMICS. J.D, Charles Univ, Prague, 47; M.B.A, Detroit, 50; fel, Wisconsin, 50-51, Ph.D, 56; Harvard Law Sch, 58-60. Instr. econ, Detroit, 48-49; res. Bank Am, Calif, 51-52; asst. banking, Wisconsin, 54-55; asst. prof. ECON, Lafayette Col, 55-58; from asst. prof. to PROF, BOSTON, 58- West German Humboldt Dozentenstipendium, 63-64; Italian Ministry For. Affairs summer res. grant, 66. Econ. consult, Naval War Col, 64. Am. Econ. Asn; Finance Asn; Asn. Comp. Econ; Royal Econ. Soc. International economic relations of Europe; international finance; central banking and monetary management. Publ: Italy in international cooperation, CEDAM, Italy, 59; co-auth, Postwar trade in divided Germany, Johns Hopkins, 64; West German foreign aid, Boston Univ, 68. Address: Dept. of Economics, Boston University, Boston, Mass. 02215.

HOLBO, DR. PAUL S, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOLBORN, PROF. LOUISE W, b. Berlin, Germany, Aug. 9, 98. INTERNATIONAL RELATIONS. Berlin, 29-33; London Sch. Econ, 33-34; A.M, Radcliffe Col, 36, Ph.D, 38; fel, Brookings Inst, 36-37. Asst, bur. int. res, Harvard, 37-39; instr. hist, Wellesley Col, 39-42; hist. & polit. sci, Pine Manor Jr. Col, 42-46; vis. lectr, Smith Col, 46-47; asst. prof. GOVT, CONN. COL, 47-52, assoc. prof, 52-56, prof, 57-66, EMER. PROF, 66- Res. analyst, Off. Strategic Servs, Wash, D.C, 43-44. Soc. Int. Law; Polit. Sci. Asn; Acad. Polit. Sci. Comparative government; refugee problem and international organization. Publ: War and peace aims of the United Nations; History of the International Refugee Organization, 1947-1952. Address: 301 Common St, Watertown, Mass. 02172.

HOLBORN, DR. STEPHEN, b. Victoria, B.C, July 10, 42; m. 63; c. 1. PSYCHOLOGY. B.A, Victoria (B.C), 64; M.A, Iowa, 66, Ph.D.(psychol), 68. ASST. PROF. PSYCHOL, BOSTON, 68- Verbal learning; memory; perception. Publ: Co-auth, The effect of overlearning on transfer of training, Quart. J. Exp. Psychol, 17: 178-180, Temporal context effects with two judgmental languages, 6: 151-152 & Pronunciability rating and learning of doubly homogeneous paired associate lists, 6: 457-458, Psychonomic Sci. Address: Dept. of Psychology, Boston University, Boston, Mass. 02215.

HOLBROOK, DR. JACK DENTON, Psychol, see 10th ed, Soc. & Behav. Vols.

HOLCOMB, DEAN G(EORGE) R(UHLE), Anthrop, see 11th ed, Phys. & Biol. Vols.

HOLCOMB, DR. KENNETH J(OHNSON), b. Fayetteville, Ark, Mar. 21, 20; m. 46; c. 1. FINANCE, ECONOMICS. B.S, Arkansas, 47, M.A, 54, Ph.D. (econ), 62. Asst. prof. econ, Lamar State Col, 56-58; instr. transportation, Arkansas, 58-59; asst. prof. econ. & transportation, Auburn, 59-61; prof. econ. & finance, Memphis State, 61-63; ASSOC. PROF. FINANCE, Miss. State, 63-64; TULSA, 64- U.S.A.A.F, 40-46, Capt. Investments; investment analysis; financial management; general insurance. Address: Dept. of Finance, University of Tulsa, Tulsa, Okla. 74104.

HOLDEN, DR. DAVID E(DWARD) W(ILLIAM), b. Queretaro, Mex, Oct. 15, 31; m. 58; c. 3. RURAL SOCIOLOGY. B.A, Rice, 53; M.S, Cornell, 59, Ph.D. (rural sociol, cultural anthrop), 61. Res. assoc. sociol, grad. sch. bus. & pub. admin, Cornell, 61-62; asst. prof, Miami (Fla), 62-63; assoc. rural sociologist, Inter-Am. Inst. Agr. Sci, Orgn. Am. States, 63-64; rural insts.

officer, Food & Agr. Orgn. UN, 64-66; ASST. PROF. SOCIOL, McGILL, 66- Rural sociologist, Inter-Am. Inst. Agr. Sci, 64-66; asst. dir. prog. anthrop. develop, McGill, 66- Consult, Inst. Land Colonization, Govt. Costa Rica, 63-64; Inst. Rural Colonization, Govt. El Salvador, 64-65. Fel. Sociol. Asn; Rural Sociol. Soc. Small community structures and dynamics in relation to social change and development; community development and programs of planned change. Publ: Associations as reference groups: an approach to the problem, Rural Sociol, 3/65; La Estructura del Liderazgo y sus Caracteristicas an una Communidad de Costa Rica, J. Inter-Am. Studies, 1/66; The structure of leadership and its characteristics in a Costa Rican community, América Indígena, 1/67. Address: Dept. of Sociology & Anthropology, McGill University, Montreal, Que, Can.

HOLDEN, EDWARD A, JR, b. Cranford, N.J, Sept. 30, 28; div; c. 2. EXPERIMENTAL PSYCHOLOGY, PHYSIOLOGY. B.S, Alabama, 53; M.A, North Carolina, 61; Michigan, 57-58. Jr. pharmacologist, Ciba Pharmaceut, Inc, N.J, 53-55; res. psychologist, N.J. Neuro-Psychiat. Inst, Princeton, 59-61; RES. SCIENTIST, EDWARD R. JOHNSTONE TRAINING & RES. CENT, 61- U.S.N, 46-48; U.S.A.F.R, 53-60, 1st Lt. AAAS; Soc. Psychophysiol. Res; Psychol. Asn. Intravenous discrimination and reinforcement; intermodal information processing; neuroelectric correlates of motivation; perception; instrumentation for automated control and recording in behavioral research. Publ: Temporal factors and subnormality in visual pattern recognition; a test of stimulus theory, 65, Stimulus duration and subnormality in visual stimulus trace theory, 66 & Interstimulus interval, locus redundancy, and mental subnormality in perception of rectilinear dot progressions, 67, J. Comp. & Physiol. Psychol. Address: Johnstone Training & Research Center, Bordentown, N.J. 08505.

HOLDEN, PROF. JOHN T(HOMAS), Govt, see 10th ed, Soc. & Behav. Vols.

HOLDEN, DR. RAYMOND H(ENRY), b. Providence, R.I, Feb. 21, 24. CLINICAL PSYCHOLOGY. A.B, Brown, 47; A.M, Yale, 49; fel, Inst. Phys. Med. & Rehab, N.Y. Univ, 56; Ed.D, Boston, 60. Intern, Emma Pendleton Bradley Hosp, 49-50; clin. psychologist, ment. hyg. serv, State Dept. Soc. Welfare, R.I, 51-52; Crippled Children & Adults of R.I, 53-59, dir. psychol. serv, 60-62; DIR. CHILD TESTING UNIT, INST. HEALTH SCI, BROWN, 57-; ASSOC. PROF. PSYCHOL, R.I. COL, 62- Lectr, col. physicians & surg, Columbia, 54-60. Consult, Nat. Insts. Health, 59-62. U.S.A, 43-46, Sgt. Maj. AAAS; Am. Psychol. Asn; fel. Am. Orthopsychiat. Asn; assoc. mem. Am. Acad. Cerebral Palsy; Soc. Res. Child Develop; assoc. mem. Royal Soc. Med. Cerebral palsy; child development; psychological assessment of brain damage; maternal attitudes towards physically handicapped children; body image. Publ: Children's apperception test with cerebral palsied and normal children, Child Develop; Motivation, adjustment and anxiety of cerebral palsied children, Except. Children; Body image changes in physically handicapped children due to summer camp experience, Merrill Palmer Quart. Address: 389 Angell St, Providence, R.I. 02906.

HOLDEN, PROF. W(ILLIAM) C(URRY), b. Coolidge, Tex, July 19, 96; m. 26, 39; c. 1. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Texas, 23, M.A, 24, Ph.D.(hist), 28. Prof. hist, McMurry Col, 23-29, PROF. HIST, TEX. TECH. COL, 29-, DIR. MUS, 50-, dean grad. sch, 45-50. U.S.A, 18-19. Archaeology of western Texas and eastern New Mexico; ethnology of the Yaqui Indians of Sonora, Mexico; history of the southwest. Publ: Alkali trails; Studies of the Yaqui Indians; Hill of the rooster. Address: Tech Station, Texas Technological College, Lubbock, Tex. 79400.

HOLDEN, PROF. W(ILLIS) SPRAGUE, b. Grand Rapids, Mich, Jan. 3, 09; m. 34. JOURNALISM. A.B, Michigan, 30; A.M, Columbia, 32. Sports space writer, Herald, Grand Rapids, Mich, 26; col. correspondent, newspapers, 26-29; staff writer, Time, New York, N.Y, 30; theatre & motion picture ed, Argonaut, San Francisco, Calif, 32-36, assoc. ed, 33-34, managing ed, 34-36; ed. writer, Beacon J, Akron, Ohio, 36-40; Free Press, Detroit, Mich, 40-46, columnist, 42-46; PROF. JOURNALISM, WAYNE STATE, 46-, CHMN. DEPT, 49- Fulbright res. awards, Australia, 56-57 & 66; Ford Found. res. grant, 66. Asn. Ed. Journalism. American literature; editorial writing; Australian journalism. Publ: Australia goes to press, Wayne State, 61, Univ. Melbourne 62; The impossible commitment: 29th Arthur Norman Smith lecture in journalism: 13 September, 1966, Univ. Melbourne, 66; Anatomy of two newspaper industrial disputes: journal of industrial relations, Indust. Rels. Soc. Australia, 3/67. Address: Dept. of Journalism, Wayne State University, Detroit, Mich. 48202.

HOLDER, DR. HAROLD DOUGLAS, b. Raleigh, N.C, Aug. 9, 39; m. 61; c. 3. COMMUNICATION SCIENCE. A.B, Samford, 61; M.A, Syracuse, 62, fel, 63-64, Newhouse fel, 64-65, Ph.D.(commun. sci), 65. Co-dir. proj, Dept. Health, Ed. & Welfare, Syracuse, 64-65; dir. commun. res. inst, Baylor, 65-67; HEAD SYSTS. RES. & PROG. EVAL, N.C. DEPT. MENT. HEALTH, 67- Vis. prof, Newhouse Commun. Center, Syracuse, summer 66; adj. prof, N.C. State, 67- Consult, Cent. Tex. Regional Ed. Center, 65-67; res. consult, dept. planning, Tex. Ed. Agency, 66-67. Mem. bd. dir, Cent. Tex. Res. Inst, 66-67. Soc. Gen. Systs. Res; Soc. Study Commun; Asn. Ed. in Journalism; Sociol. Asn. Mathematical sociology; construction and computer simulation of mathematical models of dynamic communication processes; analysis of organizational behavior in terms of information networks; message flow and decision processes. Publ: Content analysis of the USSR Information Bulletin, Journalism Quart, summer 64; General systems theory and education, Pub. Sch. Forum, 2/66; co-auth, Construction and development of a communication-information model, J. Commun, 12/67. Address: Dorothea Dix Hospital, Box 7532, Raleigh, N.C. 27602.

HOLDER, PROF. WAYNE B(UTLER), b. Mesilla Park, N.Mex, Apr. 16, 24; m. 47; c. 4. EXPERIMENTAL PSYCHOLOGY. B.A, New Mexico State, 45, M.A, 50; Ph.D, Missouri, 55. Psychologist, New Mexico State, 49-51; statistician, Weapons Syst. Phasing Group, U.S. Govt, 51; instr. PSYCHOL, Arkansas, 51-52; Missouri, 52-55; from asst. prof. to assoc. prof, FRESNO STATE COL, 55-67, PROF, 67- U.S.A, 45-46. Psychol. Asn. Values; social psychology; history of psychology. Publ: Response strength as a function of delay of reward in a runway, J. Exp. Psychol; Value conformity in normal and non-normal groups, J. Soc. Psychol; Relationship between psychology and cognate fields, Am. Psychologist. Address: Dept. of Psychology, Fresno State College, Fresno, Calif. 93726.

HOLDERMAN, DR. JAMES BOWKER, b. Morris, Ill, Jan. 29, 36; m. 59; c. 3. POLITICAL SCIENCE. B.A, Denison, 58; Ford Found. fel, Northwestern, 60, Ph.D.(polit. sci), 61. Asst. prof. govt. & pub. affairs, inst. govt. & pub. affairs, Illinois, Urbana, 61-63; asst. supt. pub. instr, Off. Pub. Instr, State of Ill, 63-65; asst. prof. polit. sci, ILLINOIS, CHICAGO, 65-67, ASSOC. PROF. POLIT. SCI. & ASSOC. CHANCELLOR, 67-, admin. asst. to v.pres, 65-66, asst. to chancellor, 66-67. Lectr, Murray Seasongood col. visitor prog, 63-67. Consult. & speech writer, various candidates for statewide off. & Republican party, 62-65; mem, Gov. Cmn. Examine Urban Govt, 68- Polit. Sci. Asn. Class Structure and political influence; decision-making in nonpartisan communities; politics of higher education. Publ: Co-auth, Teaching about totalitarian communism, Supt. Pub. Inst, State of Ill, 65; auth, Rebuilding the Republican party in Illinois, In: Illinois government, Inst. Govt. & Pub. Affairs, 1/63; The modern governor: limits of effectiveness, In: The office of the governor, Univ. Ill. Bull, 5/63. Address: University of Illinois at Chicago Circle, Box 4348, Chicago, Ill. 60680.

HOLDREGE, COL. FRED E, U.S.A.F, b. Thermopolis, Wyo, Sept. 3, 17; m. 45; c. 1. PSYCHOLOGY. B.S, U.S. Mil. Acad, 42; M.A, Minnesota, 47; Ph.D, Ohio State, 53. U.S. AIR FORCE, 36-, chief personnel mgt, Air Mat. Command, 48-50, aircrew effectiveness br, aero med. lab, Wright Aeronaut. Develop. Center, Ohio, 55-56, prof. psychol, U.S. Air Force Acad, 56-58, comdr, personnel res. lab, aerospace med. div, Air Force Systs. Command, 58-63, chief appl. tech. & personnel progs/asst. data systs, Dep. Chief Staff Personnel, Wash, D.C, 63-67, CHIEF ADV. TECH. CONCEPTS DIV, AEROSPACE STUDIES INST, AIR UNIV, 67- Air Force Commendation Medal, 58-63; Legion of Merit, 63-67. Personnel management; human engineering; education; personnel selection and classification; occupational analysis and adaptability research; application of mathematical models to personnel problems. Publ: Implementing and employee opinion survey, J. Appl. Psychol; contrib, Prediction of unsuitability discharges. Address: Aerospace Studies Institute, U.S. Air Force Air University, Maxwell Air Force Base, Ala. 36112.

HOLDREN, PROF. BOB R(AY), b. Pendleton, Ind, Sept. 13, 22; m. 47; c. 2. ECONOMICS. A.B, Indiana, 48, univ. fel, 48-49, M.A, 49; Sterling fel, Yale, 51-52. Asst. ECON, Yale, 49-51; asst. prof, Bates Col, 52-55; Williams Col, 55-58; ASSOC. PROF, IOWA STATE, 58- U.S.A, 42-46, Lt. Econ. Asn; Econmet. Soc. Economic theory; econometrics; market structure. Publ: The structure of a retail market and the market behavior of retail units. Address: 111 Lynn Ave, Ames, Iowa 50010.

HOLDREN, DR. GEORGE C(HRISTIAN), b. Sioux Rapids, Iowa, Nov. 20, 24; m. 48; c. 3. ACCOUNTING. B.S.C, Iowa, 48, M.A, 50; Ph.D.(bus. admin), Nebraska, 61. Instr. bus. admin, Red Oak Jr. Col, 50-51; teacher, pub. sch, Iowa, 51-55; instr. ACCT, NEBRASKA, 55-61, asst. prof, 61-66, ASSOC. PROF, 66- Ford Found. fel, California, Berkeley, 62; Kansas, 63. U.S.A, 43-46, Sgt. Am. Acct. Asn; Nat. Asn. Acct. Auditing; certified public accounting review; accounting theory. Publ: A critical examination of 1965 Nebraska school district audit reports, Nebr. Soc. Cert. Pub. Acct, 66; LIFO and ratio analysis, Acct. Rev, 1/64; Stock options and management efficiency, Financial Exec. 6/67. Address: 210 Social Sciences Bldg, University of Nebraska, Lincoln, Nebr. 68508.

HOLESOVSKY, DR. VACLAV, b. Prague, Czech, May 17, 24; nat; m. 50; c. 2. ECONOMICS. B.A, Charles Univ, Prague, 47; dipl, Paris, 50; M.A, Columbia, 58, Ph.D.(econ), 64. Res. economist, Columbia, 57-65; asst. prof. ECON, MASSACHUSETTS, 65-66, ASSOC. PROF, 66- Econ. Asn; Asn. Adv. Slavic Studies; Asn. Study Soviet-Type Econ; Asn. Evolutionary Econ. Economics of the Soviet area; national income accounting; business fluctuations. Publ: Co-auth, Czechoslovak national income and product, 1947-48 and 1955-56, Columbia, 62; Karl Marx and Soviet national income theory, Am. Econ. Rev. Address: 1063 N. Pleasant St, Amherst, Mass. 01002.

HOLIK, DR. JOHN S(TEVE), b. Niles, Ohio, June 4, 24; m. 53; c. 1. RURAL SOCIOLOGY, AGRICULTURAL ECONOMICS. B.Sc, Ohio State, 50; M.Sc, Purdue, 52; Ph.D.(rural sociol), Missouri, 56. Asst. agr. econ, Purdue, 50-51; RURAL SOCIOL, MISSOURI, 51-55, instr, 55-56, ASST. PROF, 56- U.S.A, 44-46. Sociol. Asn; Rural Sociol. Soc. Group organization and leadership; small community; social processes of community development. Publ: Co-auth, A community development contest as a catalytic agent in social action, Rural Sociol, 6/61; auth, Population change of Missouri towns, 1890-1960, 7/64 & co-auth, Search for leadership, winter 64, Agr. Exp. Sta, Missouri. Address: Dept. of Rural Sociology, University of Missouri, Columbia, Mo. 65201.

HOLLAND, DR. AUDREY L, b. Somerset, Pa, May 21, 33; m. 60; c. 2. SPEECH PATHOLOGY. B.S, Pittsburgh, 55, M.S, 59, Ph.D.(speech path), 60. Asst. prof. speech path, Emerson Col, 60-64, assoc. prof, 64-65; CHIEF RES. & TRAINING, HOME FOR CRIPPLED CHILDREN, 65- Adj. asst. prof, Pittsburgh, 65- Speech & Hearing Asn. Disorders of language in children and adults; clinical management of language disorders; programmed instruction. Address: Home for Crippled Children, 1426 Denniston Ave, Pittsburgh, Pa. 15217.

HOLLAND, PROF. B(ENJAMIN) F(RANKLIN), b. Keeter, Tex, Apr. 9, 97; m. 41; c. 1. EDUCATIONAL PSYCHOLOGY. M.A, Texas, 25, Ph.D.(ed. psychol), 31; summers, Chicago, 27-29. Prof. Spanish, Abilene Christian Col. Acad, 22-23; tutor & instr. philos. of ed, TEXAS, AUSTIN, 24-31, asst. prof. ED. PSYCHOL, 31-45, ASSOC. PROF, 45- Serv. award, Dept. Audio-Visual Instr, 60. Reading habits of both hearing and blind students; audio-visual education. Publ: Co-auth, Fundamentals of educational psychology; Audio-visual materials and devices; Fun at school. Address: Dept. of Educational Psychology, University of Texas, Austin, Tex. 78712.

HOLLAND, DR. EDWARD P(ECK), b. Berkeley, Calif, Jan. 29, 17; m. 38; c. 4. ECONOMICS. B.S, Mass. Inst. Tech, 42, Ph.D.(econ), 58. Res. engr, aerodyn, Boeing Airplane Co, 42-54; asst. econ. develop. res, Center Int.

Studies, Mass. Inst. Tech, 54-58, res. assoc, 58-61; dir. econ. syst. studies, Simulmatics Corp, N.Y, 61-63, dir. Venezuela proj, 63-66; ECONOMIST, AGENCY INT. DEVELOP, WASH, D.C, 66- Econ. Asn; Soc. Int. Develop. Analysis of economic dynamics of less developed countries and review of development policies and foreign aid programs. Publ: Co-auth, Experiments on a simulated underdeveloped economy, Mass. Inst. Tech, 63; Simulation of an economy with development and trade problems, Am. Econ. Rev, 62. Address: 6403 Ruffin Rd, Chevy Chase, Md. 20015.

HOLLAND, DR. GLEN A(LLEN), b. Elm Springs, Ark, Feb. 20, 20; m. 43; c. 2. CLINICAL PSYCHOLOGY. B.A, Stanford, 42; M.A, Yale, 45, Ph.D. (psychol), 47. Instr. psychol, Conn. Col, 44-46; Pomona Col, 46-47, asst. prof, 47-49; California, Los Angeles, 49-55; private practice, 55- Psychol. Asn. Psychotherapy. Publ: Fundamentals of psychotherapy, Holt, 65; The three self images of the patient in psychotherapy, J. Individual Psychol, 5/66. Address: 1516 Westwood Blvd, Los Angeles, Calif. 90024.

HOLLAND, DR. HENRY M, JR, b. San Diego, Calif, Jan. 15, 25; m. 52. GOVERNMENT, LAW. B.A, San Diego State Col, 50; A.M, Claremont Col, 51; fel, Washington (Seattle), 54-57, Ph.D.(polit. sci), 58. Exten. instr. polit. sci, Washington (Seattle), 57-58; instr, Pa. State, 58-59;-govt, State Univ. N.Y. Col. Geneseo, 59-60, asst. prof, 60-61, assoc. prof. POLIT. SCI, 61-65, prof, 65-66; ASSOC. PROF, ALFRED, 66- Grant-in-aid for res, Nat. Coun. Ed. Polit, 65-66; summers, res. grants, State Univ. N.Y, 61 & 62, faculty fels, 64 & 65, faculty fel, res. found, Alfred, 67. U.S.A, 43-46. Polit. Sci. Asn; Am. Acad. Arts & Sci; Acad. Polit. & Soc. Sci. Theory of the judicial process; political theory. Publ: Politics through literature, Prentice-Hall, 68; Mr. Justice Cardozo and the New Deal Court, 13, 63 & Cardozo on legal method: a reconsideration, 15, 66, J. Pub. Law. Address: 44 Pine Hill Dr, Alfred, N.Y. 14802.

HOLLAND, DR. JOHN L(EWIS), b. Omaha, Nebr, Oct. 21, 19; m. 47; c. 3. PSYCHOLOGY. B.A, Omaha, 42; fel, Minnesota, 46-48, M.A, 47, Ph.D.(psychol), 52. Instr. & dir, voc. counseling center, Western Reserve, 50-53; chief, voc. counseling serv, Vet. Admin. Hosp, Perry Point, Md, 53-56, clin. psychologist, 56; dir. res, Nat. Merit Scholar. Corp, 56-63; V.PRES. RES. & DEVELOP, AM. COL. TESTING PROG, 63-; PROF. PSYCHOL. & ED, IOWA, 63- Lectr, Maryland, 59; fel, Center Adv. Study Behav. Sci, Stanford, 65-66. Consult, Vet. Admin. Res. award, Am. Personnel & Guid. Asn, 60. U.S.A.A.F, 42-46. Fel. Psychol. Asn; Ed. Res. Asn. Vocational choice, development and achievement; institutional influences on achievement and personal development; prediction of creative performance in artistic, academic, social and scientific fields. Publ: The psychology of vocational choice, Blaisdell-Ginn, 66. Address: 210 Windsor Dr, Iowa City, Iowa 52240.

HOLLAND, PROF. LYNWOOD M, b. Bronwood, Ga, Mar. 31, 05. POLITICAL SCIENCE. A.B, Emory, 32, A.M, 33; Ph.D, Illinois, 45. Asst. prof, Georgia, 37-40; asst, Illinois, 40-42, 44-45; asst. prof, Arizona, 45-46; polit. sci, Emory, 46-47, assoc. prof, 47-50, prof, 50-67; PROF. GOVT. & CHMN. DEPT, TEX. TECH. COL, 67- U.S.A.A.F, 42-44. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; state administrative agencies in Georgia; state and local governments in the United States. Address: 3013 22nd St, Lubbock, Tex. 79410.

HOLLAND, DR. PAUL WILLIAM, b. Tulsa, Okla, Apr. 25, 40; m. 61; c. 2. STATISTICS. B.A, Michigan, 62; M.S, Stanford, 64, Nat. Sci. Found. fel, 63-65, Ph.D.(statist), 66. Res. assoc. STATIST, Stanford, 65-66; ASST. PROF, Mich. State, 66; HARVARD, 66- Inst. Math. Statist; Statist. Asn; Math. Soc. Mathematical psychology; model building; analysis of complex multivariate data. Publ: A variation on the minimum chi-square test, J. Math. Psychol, 67; Some properties of an algebraic representation of stochastic processes, Ann. Math. Statist, 2/68; A remark on Bower's estimate for the one-element Markov learning model, Psychometrika, 7/68. Address: Dept. of Statistics, Harvard University, 2 Divinity Ave, Cambridge, Mass. 02138.

HOLLAND, DR. ROBERT C(ARL), b. Tekamah, Nebr, Apr. 7, 25; m. 47; c. 3. ECONOMICS, FINANCE. B.S, Pennsylvania, 48, M.A, 49, Ph.D.(econ), 59. Instr. finance, Pennsylvania, 48-49; economist, Fed. Reserve Bank, Chicago, 49-56, asst. v.pres, 57-59, v.pres, 59-61; adv, div. res. & statist, BD. GOV, FED. RESERVE SYST, 61-63, assoc. dir, 64-65, adv. to bd, 65-67, SECY. BD, 68-, SECY. FED. OPEN MKT. CMT, 66- U.S.A, 43-45. Econ. Asn; Finance Asn; Statist. Asn. Bank borrowing behavior; functioning of government securities market; analysis of banking markets. Address: 5508 Cromwell Dr, Washington, D.C. 20016.

HOLLAND, PROF. ROBERT E(MORY), b. U.S, Sept. 18, 11. PSYCHOLOGY. B.A, N.Tex. State Col, 33; M.Mus.Ed, Oklahoma, 42; Ed.D, Southern California, 56. Teacher, high schs, Okla, 37-42, 46-48; asst. prof. music ed, Abilene Christian Col, 48-53; counsr, guid. center, Southern California, 55-57; PROF. PSYCHOL. & CHMN. DEPT, PEPPERDINE COL, 57- U.S.A, 42-46, Sgt. Psychol. Asn. Educational psychology; counseling; student personnel. Address: 2729 W. 78th St, Inglewood, Calif. 90305.

HOLLAND, DR. ROBERT L(EE), b. Olin, N.C, Jan. 18, 30; m. 50; c. 1. AGRICULTURAL ECONOMICS & MARKETING. B.S, Tennessee, 51, M.S, 56; Ph.D, Tex. Agr. & Mech. Col, 60; Nat. Inst. Pub. Affairs scholar, Chicago, 66-67, cert. syst. anal, 67. County agr. agent, N.C. State Col, 54-55; coop. agent mkt, Tex. Agr. & Mech. Col, 56-58, instr, 58-60; mkt. specialist, U.S. Dept. Agr, 60-63, chief, mkt. facilities develop. br, 63-65; OPERS. RES. OFFICER, AUDIT DIV, INT. REVENUE SERV, 67- U.S.A, 52-54. Agr. Econ. Asn; Soc. Pub. Admin. Marketing agricultural commodities; the feasibility of selecting tax returns for audit with mathematical and computer techniques; problems of taxpayer compliance and the measurement of voluntary and correct filing. Publ: Fourteenth Street wholesale meat market, New York City, U.S. Dept. Agr. Mkt. Res. Report; Improved marketing of food in San Juan, Puerto Rico, 64 & Improved facilities for marketing food in Chicago, Ill, 66; U.S. Dept. Agr. Address: 929 Glyndon St. S.E, Vienna, Va. 22180.

HOLLAND, PROF. THOMAS W, b. Woodville, Mich, Dec. 21, 00; m. 36; c. 4. ECONOMICS. A.B, Michigan, 23; LL.B, Columbia, 34; Ph.D, Wisconsin, 39. Asst. prof. econ, North Carolina, 26-28; instr, Wisconsin, 29; assoc. prof, Rutgers, 29-34; official, Nat. Recovery Admin, 34-35, chmn. pub. contracts bd, 36-40, adminstr, wage & hour div, 41, official, Nat. War Labor Bd, 42-46; chief div. int. labor, soc. & health affairs, U.S. Dept. State, 46-49; prof. econ, Miami (Fla), 49-50; official, Wage Stabilization Bd, 51-53; vis. prof. ECON, GEORGE WASHINGTON, 53-55, prof, 55-66, EMER. PROF, 66- V.chmn, atomic energy labor panel, Atomic Energy Cmn, 53- Address: 4100 Rosemary St, Chevy Chase, Md. 20015.

HOLLAND, PROF. WILLIAM L(ANCELOT), b. South Malvern, N.Z, Dec. 28, 07; nat; m. 32; c. 1. ECONOMICS, POLITICS. B.A, New Zealand, 28, M.A, 30; Rockefeller fel, Caius Col, Cambridge, 32-33; inst. world econ, Kiel, Germany. Acting res. secy, Inst. Pac. Rels, 31-32, res. secy, 33-44, secy. gen, 46-60; from acting dir. to dir, Off. War Info, China, 45-46; PROF. ASIAN STUDIES, BRITISH COLUMBIA, 60-, head dept, 60-68. Ed, Pac. Affairs, 54-; Far East. Surv, 55-60. Mem, Coun. For. Rels; exec. cmt, Humanities Res. Coun. Can, 66-68. Asn. Asian Studies. Far Eastern modern history and politics; international relations. Publ: Economic reconstruction in the Far East; Asian nationalism and the West; ed. & co-auth, Problems of the Pacific. Address: Dept. of Asian Studies, University of British Columbia, Vancouver 8, B.C, Can.

HOLLANDER, PROF. E(DWIN) P(AUL), b. Rochester, N.Y, Aug. 15, 27; m. 59. SOCIAL PSYCHOLOGY. B.S, Western Reserve, 48; M.A, Columbia, 50, Ph.D.(psychol), 52. Proj. dir, City Youth Bd, New York, 49-50; asst, Bd. Higher Ed, 50-51; asst. prof, Carnegie Inst. Tech, 54-58; assoc. prof, Washington (St. Louis), 58-60; sch. int. serv, American Univ, 60-62; PROF. PSYCHOL. & DIR. GRAD. PROG. SOC. PSYCHOL, STATE UNIV. N.Y. BUFFALO, 62- Prin. investr, res. contracts, Off. Naval Res, 55-; Fulbright lectr, Istanbul, 57-58; prin. investr, Nat. Inst. Ment. Health & Nat. Inst. Child Health & Human Develop. grant, 62-64; training dir, Nat. Inst. Ment. Health grant, 63-; Nat. Inst. Ment. Health sr. stipend award, Tavistock Inst, Eng, 66-67. U.S.A, 46-47; res. psychologist, Naval Air Training Command, U.S.N, 51-54, Res, 54-, Lt. AAAS; fel. psychol. Asn; Sociol. Asn. Social influence processes including leadership in groups and organizations; conformity and idiosyncrasy credit; social change and policy studies. Publ: Co-ed, Current perspectives in social psychology, Oxford Univ, 63, 2nd ed. 67; auth, Leaders, groups, and influence, 64 & Principles and methods of social psychology, 67, Oxford Univ. Address: Dept. of Psychology, Townsend Hall, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HOLLANDER, DR. MYLES, b. Brooklyn, N.Y, Mar. 21, 41; m. 63; c. 1. STATISTICS. B.S, Carnegie Inst. Tech, 61; M.S, Stanford, 62, Ph.D.(statist), 65. ASST. PROF. STATIST, FLA. STATE, 65- Inst. Math. Statist; Statist. Asn. Nonparametric statistics; biostatistics. Publ: An asymptotically distribution-free multiple comparison procedure-treatments vs. control, 66 & Rank tests for randomized blocks when the alternatives have an a priori ordering, 67, Ann. Math. Statist; Asymptotic efficiency of two nonparametric competitors of Wilcoxon's two sample test, J. Am. Statist. Asn, 67. Address: Dept. of Statistics, Florida State University, Tallahassee, Fla. 32306.

HOLLANDER, DR. PAUL (JOSEPH), b. Budapest, Hungary, Oct. 3, 32; m. 66. SOCIOLOGY. B.A, London, 59; M.A, Illinois, 60; A.M, Princeton, 62, Ph.D. (sociol), 63. Asst. prof. SOCIOL, Harvard, 63-68; ASSOC. PROF, MASSACHUSETTS, 68- Res. fel, Russian Res. Center, Harvard, 63-68, assoc, 68- Ford faculty res. grants, 65-68. Bobbs-Merrill award, 62. Hungarian Army, 53-55. Sociol. Asn. Political sociology, particularly totalitarian systems, techniques of and responses to coercion; comparative Communism, especially Soviet society; social theory; sociology of knowledge and of literature. Publ: Ed, American & Soviet society: a reader in comparative sociology & perception, Prentice-Hall, summer 68; auth, articles, In: Am. Sociol. Rev, Soc. Probs; Probs. Communism, Surv, Slavic Rev, 65-67. Address: Dept. of Sociology, University of Massachusetts, Amherst, Mass. 01003.

HOLLANDER, PROF. STANLEY C(HARLES), b. Baltimore, Md, Aug. 2, 19; m. 56. MARKETING. B.S, N.Y. Univ, 41; M.A, American Univ, 46; Ph.D. (econ), Pennsylvania, 54. Bus. analyst, Off. Price Admin, 43-45, consult, 46; analyst, Charles Stores Co, 45-47; instr. mkt, Buffalo, 47-49; Pennsylvania, 49-54; asst. prof. econ. & mkt, Minnesota, 54-56; vis. assoc. prof. MKT, Pennsylvania, 56-57, assoc. prof, 57-58; MICH. STATE, 58-59, PROF, 59- Vis. prof, California, 61; Sperry & Hutchinson res. grant retail competition, 63; Midwest Univs. Consortium Int. Activities res. grant, 66. Summers, vis. lectr, Colorado, 56, vis. assoc. prof, California, Los Angeles, 59. Secy. working group trade wealth, wealth inventory planning study, George Washington, 65-; consult, UN Indust. Develop. Orgn, 66. Mkt. Asn; Econ. Asn; Econ. Hist. Asn; Bus. Hist. Conf; Soc. Int. Develop. Prices; management practices, competition, regulation and history of distributive and service trades; marketing theory; marketing and economic development; passenger transportation. Publ: Ed, Explorations in retailing; auth, Restraints on retail competition, Bur. Bus. & Econ. Res, Mich. State Univ, 65; Wheel of retailing, J. Mkt. Address: Dept. of Marketing, 321 Eppley Center, Michigan State University, East Lansing, Mich. 48823.

HOLLANDER, DEAN TOBY EDWARD, b. Queens, N.Y, June 21, 31; m. 53; c. 2. ECONOMICS, ACCOUNTING. B.S, N.Y. Univ, 52, M.B.A, 53; Ph.D, Pittsburgh, 60. Instr. econ, Pittsburgh, 57-58; asst. prof, Duquesne, 58-59; asst. dir. prfnl. develop. acct, Am. Inst. Cert. Pub. Acct, New York, 59-64; prof. acct, Baruch Sch, City Col. New York, 64-67, PROF. PLANNING & DEAN, CITY UNIV. NEW YORK, 67- Adj. asst. prof, N.Y. Univ, 61-62; U.S. Off. Ed. Res. grant, 65-67. Ed. studies dir, Mayors Temporary Cmn. City Finance, 64-66. AAAS; Econ. Asn; Acad. Polit. Sci. Effects of auditing standards and accounting principles on development aggregate statistics. Publ: Co-auth, Six urban school districts, Praeger, 67; auth, Effects of price level changes on interindustry comparisons of income, Kyklos; Financing public higher education in New York City, Mayors Cmn, 66. Address: Aspen Court, Pomona, N.Y. 10970.

HOLLANDS, PROF. HAROLD FULLER, b. Kenyon, Minn, May 6, 97; m. 23; c. 1. AGRICULTURAL ECONOMICS. B.S, Minnesota, 23, Ph.D.(agr. & gen.

econ), 39. Instr. AGR. ECON, Minnesota, 30-36; asst. prof, Washington State, 36-38, assoc. prof, 38-39; prof, Mont. State Col, 40-47; OREGON STATE, 48-67, EMER. PROF, 67- Agr. specialist, War Food Admin, Wash, 42-45; Econ. Coop. Admin, France, 49-52; vis. prof, Concepción, 65-67. Mem. exec. cmt, Interregional Mkt. Res. Proj, 57- U.S.C.G, 18. Agr. Econ. Asn. Marketing policy; dairy production; marketing of agricultural products; agricultural policies and programs; economics of consumption. Publ: Montana farmer cooperatives, 1941 and 1946, Mont. State Col. Bull; Pacific Northwest wheat & Government programs for agriculture and for wheat, Ore. Exp. Sta. Bull. Address: Dept. of Agricultural Economics, Oregon State University, Corvallis, Ore. 97331.

HOLLENBECK, DR. GEORGE PENN, b. Pine Bluff, Ark, Sept. 7, 36; m. 61. PSYCHOLOGY. B.A, Henderson State Teachers Col, 57; M.S, Wisconsin, 59; Ph.D.(psychol), 61. Sr. assoc. psychologist, systs. eng. off, fed. systs. div, Int. Bus. Mach. Corp, 61-62, sr. personnel res. assoc. psychol, corp. staff, 62-64, PSYCHOLOGIST, systs. develop. lab, systs. develop. div, 64-65; PSYCHOL. CORP, 65- Psychomet. Soc; Psychol. Asn. Personnel research; psychological testing; educational evaluation. Publ: Co-auth, Effect of simulated applicant status on Kuder, form D, occupational interest scores, J. Appl. Psychol, 61 & Data processing aptitude test, Int. Bus. Mach. Corp, 64; auth, Conditions and outcomes in the student-parent relationship, J. Consult. Psychol, 65. Address: Psychological Corp, 304 E. 45th St, New York, N.Y. 10017.

HOLLENDER, DR. JOHN W, b. Chicago, Ill, Nov. 16, 37; m. 59; c. 2. PSYCHOLOGY. B.S, Ill. Inst. Tech, 59; U.S. Pub. Health Serv. fel, Iowa, 62-64, M.A, 64, univ. fel, 65-66, Ph.D.(psychol), 66. Psychol. asst, Vet. Admin. Hosp, Iowa City, Iowa, 64-65; ASST. PROF. PSYCHOL, EMORY, 66- Consult, Atlanta Employ. Eval. Serv. Center, 66- U.S.N, 59-62, Lt. Vocational development; psychotherapy; behavior modification. Publ: Development of a realistic vocational choice, J. Counseling Psychol, 67. Address: Dept. of Psychology, Emory University, Atlanta, Ga. 30322.

HOLLEY, HELEN LEWIS, U.S. citizen; m. 46. ECONOMICS. A.B, Mt. Holyoke Col, 22; M.Ed, Boston, 41. ECONOMIST, INTERNAL REVENUE SERV, 43-47, 48- Econ. Asn. Economic history; industry studies. Address: 5404 Blackistone Rd. N.W, Washington, D.C. 20016.

HOLLI, DR. MELVIN GEORGE, Mod. Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOLLIDAY, PROF. AUDREY R(OSE), Psychol, see 11th ed, Phys. & Biol. Vols.

HOLLIEN, DR. HARRY, Exp. Phonetics, see 11th ed. Phys. & Biol. Vols.

HOLLIMAN, DR. NEIL B, b. Wilburn, Ark, May 16, 32; m. 54; c. 2. PSYCHOLOGY. B.A, Arkansas, 58, Nat. Defense Ed. Act fel, 61-64, M.A, 63, Ph.D.(psychol), 65. Territory mgr, Ortho Pharmaceut. Corp, 60-61; instr. PSYCHOL, Arkansas, 63-64; ASST. PROF, West. Ky. State Col, 64-65; MIDWESTERN, 65-, CHMN. DEPT. PSYCHOL. & SOCIOL, 67- Consult, Ment. Health Asn, Tex, 66-67. U.S.M.C, 51-54. AAAS; Psychol. Asn. Scaling motivation; emotional arousal and expression; personality measurement. Publ: The scaling of incentives as an approach to Reinforor identification in children, Dissertation Abstracts, 65. Address: Dept. of Psychology, Midwestern University, Wichita Falls, Tex. 76308.

HOLLINGSHEAD, PROF. A(UGUST De) B(ELMONT), b. Lyman, Wyo, Apr. 15, 07; m. 31; c. 2. SOCIOLOGY. A.B, California, 31, M.A, 33; Ph.D, Nebraska, 35; hon. M.A, Yale, 52. Instr. SOCIOL, Iowa, 35; Alabama, 35-36; Indiana, 36-39; asst. prof, 39-41, assoc. prof, 46-47; YALE, 47-52, prof, 52-63. SUMNER PROF, 63-, chmn. dept, 59-65. Field investr, Columbia, 36; Soc. Sci. Res. Coun. fel, 41-42; vis. prof. psychiat. inst, London, 57-58. Consult, Ohio Valley Div, Nat. Resources Cmt, 39-42; Nat. Inst. Ment. Health, 50-55, div. res. grants, U.S. Pub. Health Serv, 60-65, div. community health serv, bur. health serv, 65-69. U.S.A.A.F, 43-45, 1st Lt. Fel. Sociol. Asn; Sociol. Res. Asn. Social stratification; medical sociology; social psychiatry. Publ: Social class and mental illness; co-auth, Trapped: families and schizophrenia, Wiley, 65; Sickness and society, Harper, 68. Address: Dept. of Sociology, Yale University, 1965 Yale Station, New Haven, Conn. 06520.

HOLLINGSWORTH, DR. J(OSEPH) R(OGERS), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOLLIS, PROF. JOSEPH WILLIAM, b. Waverly, Mo, Nov. 6, 22; m. 44. COUNSELING, GUIDANCE. B.S, Cent. Mo. State Col, 43; M.A, Missouri, Kansas City, 48; Ed.D(guid, counseling), Colorado, 54. Teacher, jr. & sr. high sch, Mo, 46-48, dir. guid, pub. sch. syst, 48-50, teacher, sr. high sch, 50-54; asst. prof. ed, BALL STATE, 54-58, assoc. prof, 58-62, prof, 62-66, PROF. PSYCHOL. & ED. & DIR. COUNSR. ED, 66- Med.C, U.S.A, 43-46. Psychol. Asn; Personnel & Guid. Asn; Asn. Counsr. Ed. & Supv. Dynamics and techniques in group work; counselor education; counseling in elementary junior and senior high schools and colleges. Publ: Co-auth, Organizing for effective guidance, Sci. Res. Assocs, 65; Group dynamics in action, Clearing House; How school counselors spend their time, Sch. Counsr. Address: Dept. of Education & Psychology, Ball State University, Muncie, Ind. 47306.

HOLLISTER, PROF. BARRETT, b. Omaha, Nebr, Feb. 24, 14; m. 41; c. 4. POLITICAL SCIENCE. A.B, Antioch Col, 36; Syracuse, 36-39; hon. LL.D, Wilmington Col.(Ohio), 66. Instr. soc. sci, ANTIOCH COL, 37-38, asst. prof. polit. sci. & assoc. personnel dir, 39-46, PROF. POLIT. SCI, 46-, DIR. INT. EDUCATION, 66-, dean students, 46-50, asst. to pres, 50-54. Kent fel, Nat. Coun. Relig. Higher Ed, 46; dir. conf. dipl, Am. Friends Serv. Cmt, Switz, 54-56, secy. int. affairs, Pa, 61-63. Polit. Sci. Asn; Soc. Int. Develop. International education; international politics and organization. Publ: Yellow Springs village charter; Five years of manager government. Address: 760 S. Wright St, Yellow Springs, Ohio 45387.

HOLLISTER, PROF. CHARLES AMMON, b. U.S, June 15, 18; m. 47; c. 2. PUBLIC LAW. A.B, Nebr. State Teachers Col.(Chadron), 40; M.A, Arizona, 46; dipl, Indust. Col. Armed Forces, 51; Ph.D, Pennsylvania, 57. Instr. POLIT. SCI, Muhlenberg Col, 46-50; assoc. prof, Bucknell, 50-68; PROF. & HEAD DEPT, EASTERN ILLINOIS, 68- Asst. dir. bur. munic. affairs, State Dept. Internal Affairs, Pa, 57-59, res. assoc, Pa, 57-68. Municipal corporations. Publ: Improving local government auditing; Local government auditors and auditing; Adjusting municipal boundaries: The law and practice in the 50 states, Nat. League Cities, 1/68. Address: Dept. of Political Science, Eastern Illinois University, Charleston, Ill. 61920.

HOLLISTER, PROF. FREDERICK J(AMES), b. Hartford, Conn, Feb. 25, 09; m. 44; c. 1. SOCIAL SCIENCE. A.B, Union Col.(N.Y), 32; A.M, N.Y. State Col. for Teachers, 33; fel, Syracuse, 46-47, Ph.D, 49. Teacher & adminstr, pub. schs, N.Y, 33-42; head dept. sociol, Harpur Col, 47-48; PROF. SOCIOL, STATE UNIV. N.Y. COL. BUFFALO, 48- Mem, adv. group for rural teacher-ed. inst, Cambodia, Indochina, 56-57; vis. prof, Puerto Rico, 66-67. U.S.A, 42-46, Capt. Sociology. Publ: Characteristics of outstanding high school citizens; Postgraduate problem in New York State high schools. Address: Dept. of Sociology, State University of New York College at Buffalo, Buffalo, N.Y. 14222.

HOLLISTER, DR. WILLIAM W, b. Putien, China, Nov. 30, 16; U.S. citizen; m. 67; c. 2. ECONOMICS. B.A, Ohio, 38; Ph.D.(philos), Columbia, 48. Instr. West. languages, Yenching Univ, China, 38-40; philos, Columbia, 46-47; asst. prof, Whitman Col, 47-52; res. analyst econ, U.S. Govt, 52-62; res. assoc, California, Berkeley, 62-64; from asst. prof. to ASSOC. PROF. ECON, QUEENS COL.(N.Y), 64- Consult, Res. Anal. Corp, 64-68; Inst. Defense Anal, 65-66. U.S.A, 42-46, 1st Lt. Econ. Asn. Economy of Communist China; economic development; comparative economic systems. Publ: China's gross national product and social accounts, 1950-1957, Free Press, Glencoe, 58; co-auth, Capital formation in Communist China, In: Industrial development in Communist China, Praeger, 64; Trends in capital formation in Communist China, In: Joint economic committee, U.S. Congress, an economic profile of Communist China, U.S. Govt. Printing Off, 67. Address: Dept. of Economics, Queens College, Flushing, N.Y. 11367.

HOLLMANN, WALTER P(AUL), b. Mt. Vernon, N.Y, Apr. 18, 16; m. 44; c. 3. SOCIOLOGY. B.S, St. Lawrence, 39; A.M, Columbia, 40. Asst, Chicago, 47-49; instr. sociol, Bowdoin Col, 49-53; researcher, Georgetown, 53-58; DEMOGRAPHER, STATE DEPT. FINANCE, CALIF, 58- U.S.N, 43-46, Lt.(jg). Sociol. Asn; Pop. Asn; Statist. Asn. Population; urban ecology; minorities. Address: 4111 Boone Lane, Sacramento, Calif. 95821.

HOLLOWAY, CHARLES S(TUART), b. St. Louis, Mo; m. 54. ECONOMICS, STATISTICS. A.B, Lincoln (Mo), 40; M.A, Catholic Univ, 42, LL.B, 49. Instr. econ, Howard, 46-49, lectr, 55-57; asst. prof, Morgan State Col, 49-50; consult, 50-55, 57-59; assoc. prof. econ. & dir. div. bus, Hampton Inst, 59-60; econ. consult, 60-62; chief sr. assoc, Moss H. Kendrix Orgn, D.C, 62-66; DIR. & OWNER, RES. ASSOCS, 66-; EXEC. DIR, UPTOWN PROGRESS CMT, 67-, economist-statistician, summer, 67. U.S.A, 42-43. Econ. Asn. Money and banking; monetary theory; statistics. Publ: Co-auth, Principles of economics & Business statistics; auth, Program development proposal for the business community of the Shaw Urban Renewal Project Area, in Washington, D.C, Uptown Progress Cmt, 67. Address: 3901 Georgia Ave. N.W, Washington, D.C. 20011.

HOLLOWAY, PROF. HAROLD D(AVID), b. Cleburne, Tex, Feb. 28, 25; m. 46; c. 2. CHILD PSYCHOLOGY. B.S, N.Tex. State Col, 49, M.S, 50; Ph.D.(exp. child psychol), Iowa, 53. Asst, child welfare res. sta, Iowa, 49-53, res. assoc, 53; from assoc. prof. to prof. child develop, Tennessee, 53-61; assoc. prof. PSYCHOL, NORTH TEXAS, STATE, 61-66, PROF, 66- Lectr, Colorado, 58. U.S.A.A.F, 43-46, Sgt. Psychol. Asn; Soc. Res. Child Develop. Experimentation with children within social and theoretical learning frameworks; psychological scaling and testing construction; methodology of psychological research. Publ: Co-auth, Race prejudice and intolerance of ambiguity in children, J. Abnorm. & Soc. Psychol; auth, Age as factors in quantity of milk consumed by preschoolers & Normative data on the children's manifest anxiety scale at the rural third grade level, Child Develop. Address: Dept. of Psychology, Box 5334, North Texas State University, Denton, Tex. 76203.

HOLLOWAY, PROF. HARRY (ALBERT), b. Seattle, Wash, Aug. 28, 25; m. 51; c. 3. POLITICAL SCIENCE. B.A, Washington (Seattle), 49; M.Sc, London, 54; Ph.D, Cornell, 58. Instr. POLIT. SCI, Texas, 57-61, asst. prof, 61-62; assoc. prof, OKLAHOMA, 62-66, PROF, 67- Eagleton Inst. Polit. grant, summer 62; Rockefeller Found. res. & travel grant, 64-65. U.S.M.C.R, 43-46, Sgt. Polit. Sci. Asn. Political theory; democratic process; voting; parties; public opinion; Southern politics and the American Negro. Publ: Co-auth, Party and factional division in Texas, Univ. Texas, 64; auth, A.D. Lindsay and the problems of mass democracy, West. Polit. Quart, 63; co-auth, Electoral participation by White and Negro in a southern city, Midwest J. Polit, 66. Address: Dept. of Political Science, University of Oklahoma, Norman, Okla. 73069.

HOLLOWAY, DR. JAMES YOUNG, Theol, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

HOLLOWAY, DR. RALPH L, JR, Phys. Anthrop, see Suppl. V to 11th ed, Phys. & Biol. Vols.

HOLLOWAY, DR. RALPH S, b. Mar. 17, 19; U.S. citizen; m. 42; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Toledo, 40; M.A, Iowa, 50, Ph.D.(sociol), 53. Asst. prof. SOCIOL, Delaware, 53-56; assoc. prof, St. Cloud State Col, 56-63; PROF. & CHMN. DEPT, Wis. State, 63-66; BRIDGEPORT, 66-Danforth fel. & summer res. grant, 63; S&H Found. lectr. grant, fall 67. Med.C, U.S.N, 44-46. AAAS; fel. Sociol. Asn; Soc. Study Social Probs; Soc. Sci. Study Relig. Role theory and development of the social self; sociology of war. Publ: Co-auth, Community resources for community leaders, 2 Vols, Univ. Delaware, summers 55 & 56; auth, School desegregation in Delaware, J. Soc. Probs, spring 56. Address: Dept. of Sociology, University of Bridgeport, Bridgeport, Conn. 06602.

HOLLOWAY, PROF. ROBERT JOHN, b. Walker, Iowa, Sept. 13, 21; m. 45; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. B.S.C, Iowa, 43; M.B.A, Stanford, 48, Ph.D, 52. Asst. econ, Stanford Res. Inst, 49-50; lectr. MKT, MINNESOTA, ST. PAUL, 50-51, asst. prof, 51-53, assoc. prof, 54-57, PROF, 57- Vis. assoc. prof, Philippines, 55-56; Stanford, 55-56; Ford Found. study grant, 61-62, res. grant, 64-65. U.S.A, 1st Lt. Mkt. Asn. (pres, 67-68). Marketing; experimental design as an aid to marketing. Publ: Impact upon Minnesota of a liberalized trade policy; Marketing research is more than surveys, J. Mkt; Market research and market planning. Address: 1576 Vincent St, St. Paul, Minn. 55108.

HOLLOWAY, DEAN W(ILLIAM) V(ERNON), b. Weimar, Tex, Oct. 18, 03; m. 25; c. 2. POLITICAL SCIENCE. A.B, Southwestern (Tex), 25; M.A, Wisconsin, 28; Ph.D.(polit. sci), Washington (Seattle), 32. Asst. prof. polit. sci, Alabama, 28-33, assoc. prof, 33-36; Tulane, 36-46; from assoc. prof. to prof, Tulsa, 46-55; pub. admin, Fla. State, 55-58; PROF. POLIT. SCI. & DEAN GRAD. SCH, TULSA, 58-, V.PRES, 59- Chief classification & pay div, New Orleans Civil Serv. Cmn, 42-46; summer staff mem, cmt. pub. admin, Soc. Sci. Res. Coun, 46; consult, Stanolind Oil & Gas Co, 52-54. Polit. Sci. Asn. Public administration; political parties and public opinion. Publ: State and local government in the United States; co-auth, Government and politics in Alabama; co-auth, American government. Address: 214 E. 27th Place, Tulsa, Okla. 74114.

HOLLY, PROF. J(OHN) FRED, b. Elizabethton, Tenn, Dec. 29, 15; m. 41; c. 1. ECONOMICS. A.B, Milligan Col, 37; fel. & M.A, Tennessee, 38; fel. & Ph.D, Clark, 49. Prof. econ, Milligan Col, 40-45, treas. & bus. mgr, 43-45; consult, 45-47; PROF. ECON, TENNESSEE 47-, HEAD DEPT, 51-; PRIVATE ARBIT. PRACTICE, 49- Vis. prof, Mississippi, 56. Consult, Tenn. Valley Authority, 50-51. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Labor and managerial economics; economic development. Publ: Co-auth, Economics: principles, problems and perspectives; auth, Economy of Greeneville, Tennessee; Protective labor legislation and its administration in Tennessee. Address: Dept. of Economics, University of Tennessee, Knoxville, Tenn. 37916.

HOLM, PROF. DONALD S(UTHERLAND), JR, b. Highland Park, Mich, Oct. 1, 20; m. 51; c. 2. ECONOMICS. A.B, Oberlin Col, 41; M.B.A, Harvard, 47; fel, Indiana, 47-50, M.A, 50, Ph.D.(econ, bus. mgt), 52. Asst. prof. BUS. MGT, MISSOURI, 50-53, assoc. prof, 53-58, PROF, 58-, CHMN. DEPT. MGT. & DIR. GRAD. PROG. BUS, 65-, chmn. dept. bus. mgt, 62-65, coordinator M.B.A. prog, 64-65. Consult, Div. Employ. Security, Jefferson City, Mo, 52-54 & 58-59; Mo. Reorgn. Cmn, 64; Mo. State Nurses Asn, 54-55; bur. employ. security on role & function of U.S. Employ. Serv. & unemploy. ins. progs, U.S. Dept. Labor, 60; Hawthorn Co. Div, Kellwood Corp, Mo, 63-64; Mo. State Library, 62-63; Mo. Div. Employ. Security, 64-68; Mo. Dept. Corrections, 64-65; Univ. Missouri, summers, 64-67; Harbison-Walker Refractories, 67; Reinhart Fajen, Inc, 67; Mo. Div. Ment. Diseases, 67- Mem. exec. develop. prog. local off.mgrs, bur. old age & survivors ins, Dept. Health, Ed. & Welfare, 60 & 61; comptroller & budget dir, State of Mo, 62; participant exec. develop. prog, M.F.A. Oil Co, Mo, 64-65; managerial develop. prog. div. & dept. heads, City of Columbia, 66; mem. mgt. develop. seminars, U.S. Civil Serv. Cmn. Regional Off, St. Louis, Mo, 65 & 66; participant mgt. develop. prog, Off. Econ. Opportunity, 66-67; supvry. develop. prog, Mo. Dept. Revenue, 67. U.S.N, 42-46, Res, 46-, Comdr. Econ. Asn. Business; personnel; government and labor; organization and management. Publ: Labor force, employment and unemployment comparisons: Missouri and the United States, 1940-1957, Div. Employ. Security, Jefferson City, Mo, 59; co-auth, Coordinating health and management knowledge to train health executives, J. Med. Ed, 8/67; An approach to train health managers, the University of Missouri program, Hosp. Admin, fall 67. Address: Room 239, School of Business & Public Administration, University of Missouri, Columbia, Mo. 65201.

HOLM, EDWIN E(MANUEL), b. Norfolk, Va, Apr. 4, 18; m. 47; c. 3. ECONOMICS. M.A, Virginia, 41. Instr. econ. & dean men, Norfolk Exten, Col. William & Mary, 46-48; ECONOMIST, STATE DIV. INDUST. DEVELOP, VA, 51- U.S.A, 42-46, Capt. Econ. Asn. Economic development; public finance. Publ: Labor resources and labor income in Virginia; Virginia's governmental costs in relation to residents' income; Production and marketing of coal in Virginia and the nation. Address: 1010 State Office Bldg, Richmond, Va. 23219.

HOLMAN, DR. DOROTHY JANE, b. Dallas, Tex, May 22, 26; wid; c. 3. POLITICAL SCIENCE. B.S, North Texas State, 61, fel, 61-62, M.S, 62; Ed.D, Kansas, 66. Asst. instr. polit. sci, Kansas, 62-64; ASST. PROF. SOC. STUDIES METHODS & AM. GOVT, SAN DIEGO STATE COL, 66-, participant & group dir. psychol. & sociol, inst. teachers of disadvantaged, summer, 67. Res. contrib, proj. on instr, Nat. Ed. Asn, 63; pilot proj. coordinator, Univ. Chicago & Coun. Study Mankind, Santa Monica, Calif, at Lawrence High Sch, Kans, 65-66. Consult. soc. studies, San Diego Pub. Schs, 67- Polit. Sci. Asn; Nat. Coun. Soc. Studies. Increased use of the case study method in teaching from the inductive approach in colleges, secondary and primary schools; specialization in constitutional court case approach. Publ: Case studies revive student interest, Tex. Outlook, 12/63. Address: School of Education & Political Science, San Diego State College, Box 246, San Diego, Calif. 92115.

HOLMAN, DR. ERIC W(ILLIAMSON), b. New York, N.Y, Jan. 8, 41. PSYCHOLOGY. B.A, Yale, 60; Nat. Sci. Found. coop. fel, Pennsylvania, 61-64, Ph.D.(psychol), 64. Nat. Sci. Found. fels. PSYCHOL, Stanford, 64-66; ASST. PROF, CALIFORNIA, LOS ANGELES, 66- Nat. Inst. Ment. Health grant, 67-68. AAAS. Mathematical psychology; learning; motivation. Publ: Tests for spontaneous alternation, Psychol. Rev, 66. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

HOLMAN, DR. MARY ALIDA, b. West Point, N.Y, June 26, 33; m. 62. ECONOMICS. Univ. fel, George Washington, 59-60, McGraw Found. Thomas Alva Edison fel, 61, Ph.D.(econ), 63. Res. asst. econ, Nat. Planning Asn, 57-58; economist, U.S. Dept. Agr, 58-59; Resources for the Future, 60-61; assoc. res. prof, GEORGE WASHINGTON, 63-66, ASSOC. PROF. ECON, 66- Vis. prof, Indust. Col. Armed Forces, 65-67; Nat. War Col, 66-67. Consult. to assoc. adminstr, Manned Space Flight, NASA, 66- Robert C. Watson award, Am. Patent Law Asn, 64. Econ. Asn. Economic policy and theory. Publ: Co-auth, Evaluation of the patent policies of the National Aeronautics and Space Administration, U.S. House Rep. Cmt. Sci, 12/66, Concentration of patents from federal research in industry, Rev. Econ. & Statist, 8/67 & Space employment in Los Angeles: a declining role in the aerospace industry?, Calif. Mgt. Rev, summer 68. Address: Dept. of Economics, George Washington University, Washington, D.C. 20006.

HOLMAN, DR. PETER A(NDREW), b. Wilkes Barre, Pa, Nov. 10, 21; m. 51; c. 3. INDUSTRIAL & ENGINEERING PSYCHOLOGY. A.B, Southern California, 50, A.M, 56, M.B.A, 57, Ph.D, 60. Mem. staff pub. rel, Evans Prods. Co, 46-47; sr. eng. writer, jet propulsion lab, Calif. Inst. Tech, 51-55; supvr. mgt. reports, guided missile div, Firestone Tire & Rubber Co, 54-56, sr. engr. human factors, 56-58; asst. soc. scientist, SYST. DEVELOP. CORP, 58-59, sr. opers. res. analyst, 59-60, SR. OPERS. RES. SCIENTIST, 60- Lectr, Los Angeles Valley Col, 58-; Southern California, 61-; California, Los Angeles, 65- U.S.A, 42-46, 1st Lt. AAAS; Opers. Res. Soc. Management science; operational analysis and system design of real-time man-machine-computer systems; objective and subjective aspects of human decision processes. Publ: Validation of an attitude scale as a device for predicting behavior, J. Appl. Psychol; Multivariate analysis of intention, attitude and behavior, Am. Psychologist. Address: 2525 California Ave, Santa Monica, Calif. 90403.

HOLMBERG, PROF. ALLAN R(ICHARD), Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 66.

HOLMEN, PROF. MILTON G(EORGE), b. Little Falls, Minn, Feb. 22, 20; m. 42; c. 4. PSYCHOLOGY. B.S, Arizona, 42; M.A, New Mexico, 48; Ph.D. (psychol), Stanford, 52. Instr. indust. psychol, Stanford, 52; from res. scientist to sr. res. scientist, HumRRO, 53-54; staff psychologist, indust. div, Psychol. Corp, 55; group head, training dept, Rand Corp, 56-57; dept. mgr. & dir, Syst. Develop. Corp, 58-66; PROF. MGT. & DIR. MGT. LAB, SOUTHERN CALIFORNIA, 66- Industrial psychology; organization behavior; management development; psychological testing and public policy; manpower management. Address: Dept. of Management, University of Southern California, Los Angeles, Calif. 90007.

HOLMER, FREEMAN, b. St. Paul, Minn, Nov. 3, 17; m. 42; c. 2. POLITICAL SCIENCE. A.B, Concordia Col.(Moorhead, Minn), 38; A.M, Oregon, 46; Columbia, 46-48. Instr. polit. sci, univ. col, N.Y. Univ, 46-49; asst. prof, Willamette, 49-53, assoc. prof, 53-59; dir, State Dept. Finance & Admin, Ore, 59-66; dir, State Dept. Resource Develop, WIS, 66-67, ADMINSTR. DIV. RESOURCE DEVELOP, STATE DEPT. NATURAL RESOURCES, 67- Asst. to dir. legis. interim cmn, State Dept. Govt. Admin, Ore, 50, exec. dir. legis. interim cmt. elections, 55-57; chief orgn. & methods sect, State Dept. Finance & Admin, 52-57; dir, Citizenship Clearing House, 53-59; dir. elections, State of Ore, 57-59; chmn. cmt. info. systs, Coun. State Govts, 65- Polit. Sci. Asn; Soc. Pub. Admin; Air Pollution Control Asn; Water Pollution Control Fedn. Public administration; legislative-administrative relationships. Publ: Report on impact of federal grants-in-aid on the structure and functions of state and local governments, Cmn. Intergovt. Rels. Address: Division of Resource Development, State Dept. of Natural Resources, State Office Bldg, Madison, Wis. 53702.

HOLMES, PROF. CHARLES H, b. Paterson, N.J, Aug. 24, 26; m. 51; c. 3. ECONOMIC GEOGRAPHY & HISTORY. B.S, Utah State, 50, M.S, 56; D.S.S. (econ. & geog), Syracuse, 59. Asst. econ, Utah State, 50-51 & 55-56; acct, U.S. Steel, 51-55; asst. to dean, Syracuse, 56-59, asst. prof. admin. & asst. dean, 59-67; PROF. ADMIN. & DEAN, MANSFIELD STATE COL, 67- Col. consult. admin, Middle States Accrediting Asn. Cmn. U.S.N, 44-46. Asn. Am. Geogr; Nat. Coun. Geog. Ed; Econ. Asn. Economic geography of western United States; administration in higher education. Publ: Scholarship holders, Col. & Univ, 64; Factors affecting development of the steel industry in intermountain America, J. Geog, 59; The transfer student, Jr. Col. J, 61. Address: Office of the Dean, Mansfield State College, Mansfield, Pa. 16933.

HOLMES, DR. DAVID S(HERIDAN), b. Chicago, Ill, June 9, 39; m. 64. PSYCHOLOGY. B.S, Northern Illinois, 59; M.A, Northwestern, 63, Ph.D.(psychol), 65. Instr. PSYCHOL, Northwestern, 64-65, ASST. PROF, 65-66; TEXAS, 66- Psychol. Asn. Psychopathology and psychological defenses. Publ: Reviews of research on behavior pathology, Wiley, 68; Pupillary response, conditioning, and personality, J. Personality & Soc. Psychol, 67; Dimensions of projection, Psychol. Bull, 68. Address: Dept. of Psychology, University of Texas, Austin, Tex. 78712.

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HOLMES, DR. DOUGLAS, b. Bridgeport, Conn, Dec. 7, 33; m. 59; c. 2. SOCIAL PSYCHOLOGY. B.A, Tufts, 58; Nat. Sci. Found. fel. & Ph.D.(psychol), N.Y. Univ, 63. Res. coordinator, Nat. Coun. Alcoholism, 61-63; sr. res. scientist, New York City Dept. Health, 63; DIR. RES, ASN. YM-YWHA'S NEW YORK, 63-; NAT. JEWISH WELFARE BD, 67- Adj. asst. prof, N.Y. Univ, 63-65; lectr, Baruch Sch, City Univ. New York, 64-65. Consult, Hudson Guild & N.J. Col. Med. & Dent, 64- Intel.C, U.S.A, 54-56. AAAS; Psychol. Asn; Orthopsychiat. Asn. Health and welfare research focusing on community mental health research and programs. Publ: Toward a psychoanalytic theory of work, Psychoanalytic Study of the Child, 65; Integrating the handicapped child, J. Jewish Community Serv, 66; Application of research in practice, Soc. Welfare Proc, 67. Address: 173 Riverside Dr, New York, N.Y. 10024.

HOLMES, PROF. FRANK L, b. Chesterfield, Eng, Aug. 12, 03; nat; m. 27; c. 4. ECONOMICS, FINANCE EDUCATION. B.Sc, Kansas, 30; M.A, Northwestern, 37; Ph.D, Nebraska, 49; Iowa State Col; California. Supt, pub. schs, Nebr, 28-42; high sch, Ill, 42-49; consult, Sci. Res. Assocs, 49-51; ed. adv, Off. High Cmnr. for Germany, 51-52; prof. econ. & admin. consult, Dir. Sch. Am. Studies, Harding Col, 52-56; ed. chief, U.S. Opers. Mission, Thailand, 56-58, Iraq, 58-60, Libya, 60-64, dir, Agency Int. Develop/Ford Found. Ed-Econ. Surv. Team, Liberia, 64-65, CHIEF HUMAN RESOURCE DEVELOP. OFFICER, U.S. MISSION TO BOLIVIA, 65- Econ. Asn. Public and school finance; personnel. Publ: Methods of collection of delinquent taxes; Selection and promotion of university personnel; ed, International trade conference. Address: USAID/American Embassy, La Paz, Dept. of State, Washington, D.C. 20523.

HOLMES, DR. JACK A(LROY), Ed. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

HOLMES, DR. JAMES M, b. Cleveland, Ohio, Jan. 3, 38. ECONOMICS. B.A, Wabash Col, 59; M.A, Chicago, 63, Ingersoll, Earhart, Ford & Krannert fels, & Ph.D.(econ), 67. ASST. PROF. ECON, Purdue, 64-67; STATE UNIV. N.Y. BUFFALO, 67- Econ. Asn; Economet. Soc. International trade and econometrics. Publ: The purchasing power parity theory, J. Polit. Econ, 10/67. Address: Dept. of Economics, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HOLMES, JOHN L(OUIS), b. Van Wert Co, Ohio, Aug. 8, 09; m. 35; c. 2. CLINICAL PSYCHOLOGY. B.S, Ohio State, 35, M.A, 38. Asst. dir. personnel & dir. testing bur. & asst. prof. psychol, Iowa State Col, 39-55; training supvr. indust. rels, aircraft div, Hughes Tool Co, 55-56; mgt. analyst, Kaiser Steel Corp, 56-58; DIR. CUSTOMER SERV, CALIF. TEST. BUR, 58- Psychol. Asn; Mgt. Asn; Personnel & Guid. Asn. Clinical counseling techniques; use and interpretation of tests; learning; industrial psychology. Address: Customer Services, California Test Bureau, Monterey, Calif. 93940.

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HOLMES, DR. OLIVER W(ENDELL), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

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HOLMES, PROF. PRESLEY DIXON, JR, TV-Radio, Ed, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

HOLMES, DR. RICHARD A, b. Toronto, Ont, June 18, 33; m. 56; c. 3. ECONOMICS, STATISTICS. B.A, Saskatchewan, 54, M.A, 56; Ph.D, Indiana, 60. Economist, Can. Nat. Rwys, 60-61; asst. prof. econ, British Columbia, 61-66; ASSOC. PROF. STATIST. ESTIMATION & ECONOMET, SIMON FRASER UNIV, 66- Consult, B.C. Royal Cmn. Automobile Ins, 66-67. Am. Econ. Asn; Am. Statist. Asn; Economet. Soc; Can. Econ. Asn. Cost analysis; statistical estimation; economic forecasting. Publ: Estimation of demand elasticities, Agr. Econ. Res. Coun. Can, 66; The accuracy of Canadian forecasts of manufacturers capital and repair expenditures, Can. J. Econ. & Polit. Sci, 5/65; Combining cross-section and time-series information on demand relationships for substitute goods, Am. J. Agr. Econ, 68. Address: Dept. of Economics, Simon Fraser University, Burnaby 2, B.C, Can.

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HOLMES, DR. THOMAS H(ALL), III, Psychiat, see 11th ed. Phys. & Biol. Vols.

HOLMES, DR. W(ILLIAM) F(RANK), b. Detroit, Mich, May 30, 19; m. 41; c. 2. PSYCHOLOGY. B.S, Michigan, 41, M.S, 42, Ph.D, 48. Head counseling servs, bur. psychol. servs, Michigan, 46-48; chmn. dept. psychol, West. Mich. Col, 48-49; assoc. dir, Psychol. Corp, 49-52; EXEC. DEVELOP. DIR, LEVER BROS. CO, 52- U.S.N.R, 43-46. Psychol. Asn. Management and organizational development. Address: Lever House, 390 Park Ave, New York, N.Y. 10022.

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HOLMLUND, DR. WALTER S, b. Atlantic Mine, Mich, Oct. 11, 08; m. 38; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, North. Mich. State Teachers Col, 32; M.A, Michigan, 39, Ph.D, 52; fel, Yale, 45. Psychiat. soc. worker, pub. schs, Mich, 42-45, supvr. vis. teachers, 45-52; Ballenger chmn. dept. ed, Flint Jr. Col, 52-59; adv. teacher ed, Agency Int. Develop, 59-65; sci. adv, Cameroon Col. Arts, Sci. & Tech, W.Africa, 66; DIR. INT. REL, NORTHERN MICHIGAN, 66- Lectr, Michigan, 45-46; Gazi Teacher Training Inst, Turkey, 56. Adv, Ministry ed, 56. Child development; guidance and counseling. Publ: A knock upon the door, Mich. Ed. J; Guidance and power, Nat. Ed. Asn. J; In service training program's to help teacher and child, Nation's Schs. Address: Dept. of Psychology, Northern Michigan University, Marquette, Mich. 49855.

HOLMSEN, DR. ANDREAS AUGUST, b. Norway, Aug. 6, 25; m; c. 3. AGRICULTURAL ECONOMICS. Ph.D.(agr. econ), Cornell, 60. Economist, Ont. Dept. Agr, Can, 56-57; asst. prof. agr. econ, N.Dak. State, 60-62; commodity specialist, Food & Agr. Orgn. UN, Rome, 62-63; ASSOC. PROF. FISHERIES ECON, RHODE ISLAND, 63- Consult, Govt. P.R, 66. Mem, Nat. Fisheries Inst. Publ: Co-auth, The economics of quahog depuration, 65, auth, The Rhode Island quahog industry—some economic aspects, 66 & Comparative testing of midwater rigs on small draggers, 67, Univ. Rhode Island. Address: 41 Little Rest Rd, Kingston, R.I. 02881.

HOLOWINSKY, DR. IVAN ZENOVI, b. Sarwanycia, Ukraine, Apr. 25, 27; nat; m. 52; c. 2. CLINICAL & EDUCATION PSYCHOLOGY. B.A, Salzburg, Austria, 48; Innsbruck, 48-49; M.Ed, Temple, 54, D.Ed, 61. Psychologist, high sch, N.J, 55-56; Camden Bd. Ed, 56-59; clin. psychologist, Training Sch, N.J, 59-63, chief clin. psychologist, 63-65, chief clin. serv, 65-66; ASST. PROF. ED. PSYCHOL, RUTGERS, 66- U.S.A, 50-52. Psychol. Asn; Asn. Ment. Deficiency; Acad. Ment. Retardation. Educational achievement and adjustment; emotional and personality problems of adults and children of subnormal intelligence associated with various etiologies. Publ: Co-auth, Qualitative interpretation of draw-a-person reproductions by Japanese children, 65 & auth, Some problems of differential diagnosis and implications for program and treatment, 66, Training Sch. Bull; co-auth, A description of the development of a mentally retarded individual following treatment and training, In: Readings in psychology, Hartley, 65. Address: Graduate School of Education, Rutgers University, New Brunswick, N.J. 08903.

HOLSEN, JOHN A(KERS), b. St. Louis, Mo, Jan. 27, 27; m. 47; c. 5. ECONOMICS. B.A, Chicago, 48, M.A, 52. Economist, Mutual Security Agency, 51-53; mkt. analyst, Spiegel, Inc, 53-55; Pure Oil Co, 55-57; Ford Found. for. areas fel, 57-58; economist, U.S. Econ. Mission, U.S. Agency Int. Develop, Spain, 58-63, econ. adv, Chile, 64-66; ECONOMIST, INT. BANK RECONSTRUCT. & DEVELOP, 66- U.S. Merchant Marine, 45-46. Am. Econ. Asn; Soc. Int. Develop; Royal Econ. Soc. National income analysis; economic development of underdeveloped areas; international economics. Address: Economics Dept, International Bank for Reconstruction & Development, 1818 H St. N.W, Washington, D.C. 20433.

HOLSHOUSER, EDWARD L(UTHER), b. Wilson, Pa, Sept. 19, 22; m. 47. INDUSTRIAL PSYCHOLOGY. B.S, Pittsburgh, 53; fel, Carnegie Inst. Tech, 53-55, M.S, 56. Asst. exp. psychol, Carnegie Inst. Tech, 53-55; human factor res, Am. Inst. Res, 55-56, res. assoc, 56-57; sr. personnel asst. indust. rels, Columbia Gas Syst, 57-58, personnel supvr, 58-59; proj. engr, Philco West. Develop. Labs, 60-61, group supvr. & engr, 61-63; eng. specialist, N.Am. Aviation, 63-65; mem. tech. staff, TRW Systs, 65; RES. PSYCHOLOGIST, NAVAL MISSILE CENTER, 65- U.S.A.A.F, 42-45, Sgt. Psychol. Asn; Human Factors Soc; Inst. Aeronaut. & Astronaut; Inst. Elec. & Electronics Eng. System analysis to determine man-machine function allocations and design effort for control and display development. Publ: Peripheral visual acuity as a function of contrast, duration and meridian; Operational midas ground stations; Multiple satellite control system study. Address: 1010 Cove Ave, Ventura, Calif. 93003.

HOLSHOUSER, PROF. EUGENE C, b. Banner Elk, N.C, Nov. 9, 27; m. 52; c. 3. STATISTICS, ECONOMICS. B.S, Fla. State, 50, M.S, 53, Ph.D.(econ), 60. Statistician, Fla. Indust. Cmn, 51-54; res. assoc, Bur. Bus. Res, Kentucky, 54-61; assoc. prof. ECON. & STATIST, COL. BUS. ADMIN, GEORGIA, 61-66, PROF, 66- Res. fel, Inter-Univ. Cmt. Econ. Res. on South, 64-65; lectr, seminars, 66-67. Chmn. state hwy. budgeting cmt, Hwy. Res. Bd, Nat. Acad. Sci, 61-67. U.S.A, 45-48, Sgt. Statist. Asn. Economic base studies; highway economics; statistical demand studies. Publ: The case for capital budgeting in state highway departments, Hwy. Res. Bd, Nat. Acad. Sci, 61; Construction budgeting in state highway departments, Univ. Kentucky, 62; co-auth, Northeast Georgia economic base studies, Univ. Georgia, 67. Address: 140 Bishop Dr, Athens, Ga. 30602.

HOLSTEIN, PROF. EDWIN J(OSEPH), b. Utica, N.Y, Apr. 17, 21; m. 48; c. 3. ECONOMICS. B.A, State Univ. N.Y. Col. Ed.(Albany), 42, M.A, 47; Ph.D. (soc. sci. ed), N.Y. Univ, 57. Instr. soc. sci, State Univ. N.Y. Col. Ed. (Cortland), 47; ECON, RENSSELAER POLYTECH, 47-53, asst. prof, 53-58, assoc. prof, 58-63, PROF, 63-, CHMN. DEPT, 68- Summer vis. appropriate, State Univ. N.Y. Col. Ed.(Albany), 50-51, 56-58. Consult, inst. higher ed, teachers col, Columbia, 58-; John Culbreath Burdis Assocs, N.Y, 61-; N.Y. State Dept. Ed, 65-; N.Y. State Coun. Econ. & Ed, 64- U.S.N, 42-46, Lt. Econ. Asn. Design and experimental use of special visual materials for instruction in economics, especially overhead projector. Publ: Co-auth, Liberal education and engineering; auth, Guide to overhead transparencies, In: Economics, 7th ed, McGraw, 67; Socio-humanistics studies for American engineers, J. Higher Ed. Address: Dept. of Economics, Rensselaer Polytechnic Institute, Troy, N.Y. 12181.

HOLSTI, DR. KALEVI JACQUE, b. Geneva, Switz, Apr. 25, 35; U.S. citizen; m. 56; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Stanford, 56, M.A, 58, Ph.D.(polit. sci), 61; Fulbright fel, Helsinki, 59-60. Instr. POLIT. SCI, BRITISH COLUMBIA, 61-63, asst. prof, 63-66, ASSOC. PROF, 66- Can. Coun. sr. res. fel, 67-68; summer vis. assoc. prof, Hawaii, 67. Theories of international relations; diplomatic bargaining; application of role theory to study foreign policy and international systems. Publ: Suomen ulkopolitiikka suuntaansa etsimässa, Helsink: Tammi Pub, 63; International politics: a framework for analysis, Prentice-Hall, 67; Resolving international conflicts: a taxonomy of behavior and figures on procedures, J. Conflict Resolution, 66. Address: Dept. of Political Science, University of British Columbia, Vancouver, B.C, Can.

HOLSTI, DR. OLE, b. Geneva, Switz, Aug. 7, 33; U.S. citizen; m. 53; c. 2. POLITICAL SCIENCE. A.B, Stanford, 54, Gen. Elec. fel, 60-61, Haynes fel, 61-62, Ph.D.(polit. sci), 62; M.A, Wesleyan, 56. From instr. to asst. prof,

POLIT. SCI, Stanford, 62-67; ASSOC. PROF, BRITISH COLUMBIA, 67- Consult, Stanford Res. Inst, 66-; Gen. Elec. Co, 66-; Hist. Eval. & Res. Orgn, 66- U.S.A, 56-58, Res, 54-56, 58-62, Sgt. Polit. Sci. Asn; Int. Studies Asn. (secy-treas, 67-69). International politics; decision-making behavior; research methodology; comparative foreign policy. Publ: Co-auth, Content analysis: a handbook for the study of international crisis, Northwestern, 63; Enemies in politics, Rand McNally, 67; auth, Content analysis in social and humanistic research, Addison-Wesley, 69. Address: Dept. of Political Science, University of British Columbia, Vancouver 8, B.C, Can.

HOLSTON, DR. ROBERT P(AUL), Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

HOLT, PROF. CHARLES C(ARTER), b. Jennings, La, May 21, 21; m. 49; c. 3. ECONOMICS. S.B. & S.M, Mass. Inst. Tech, 44; M.A, Chicago, 50, Ph.D. (econ), 55; fel, Carnegie Inst. Tech, 50-51. Asst. prof. ECON, Carnegie Inst. Tech, 53-56, assoc. prof, 56-59; vis. faculty mem, London Sch. Econ, 59-61; PROF, WISCONSIN, 61- Econ. Asn; Economet. Soc; Inst. Mgt. Sci. Inventory fluctuations in the aggregate economy; dynamics of economic fluctuations; techniques for optimal decision-making. Publ: Averaging of income for tax purposes, equity and fiscal policy considerations, Nat. Tax J; co-auth, Control of inventory and production rates, a survey, J. Opers. Res. Soc; co-auth, Linear decision rule for production and employment scheduling, Mgt. Sci. Address: 215 Forest St, Madison, Wis. 53705.

HOLT, E(VERETT) G, Econ, see 10th ed, Soc. & Behav. Vols.

HOLT, HOWARD J(UDSON), Psychol, see 10th ed, Soc. & Behav. Vols.

HOLT, DR. H(OWARD) O(LIVER), b. Sapulpa, Okla, Mar. 8, 15; m. 40; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Oklahoma, 36, B.F.A, 38, M.M.Ed, 40; fel, Texas, 49-51, Ph.D.(ed. psychol), 51. Dep. dir, HumRRO, 53-56; personnel res. supvr, Am. Tel. & Tel. Co, 56-58, dir. training res, 63-67, from acting dir. to DIR, cmn. soc. sci. res, BELL TEL. LABS, INC, 58-63, HUMAN PERFORMANCE TECH, 67- Summer lectr, Texas, 51. U.S.A, 51-53, Col. AAAS; Psychol. Asn; Sociol. Soc. Training research; learning. Address: 2 Lorraine Rd, Summit, N.J. 07901.

HOLT, DR. J(AMES) M(ILBURN), b. Geneva, Ky, Feb. 12, 25. CLINICAL PSYCHOLOGY. A.B, California, Los Angeles, 47, M.A, 53, Ph.D.(psychol), 55. Psychometrist, Vet. Guid. Center, south. exten. div, California, Los Angeles, 46-48; asst. psychologist, Orthop. Hosp, Los Angeles, 48-51; trainee clin. psychol, Vet. Admin, 51-55; dir. psychol. servs, Orthop. Hosp, 55-60; psychol. consult, 60-62; res. consult, Voc. Rehab. Admin, 62-63; COORDINATOR RES. & SPEC. PROGS, ORTHOP. HOSP, 63- Lectr, Southern California, 56-67; proj. dir. & prin. investr, Off. Voc. Rehab. grant, 58-61; private practice, 63- Psychol. Asn. Personality organization and development; techniques of assessing personality; psychotherapy; interpersonal processes and communication. Address: Orthopaedic Hospital, 2400 S. Flower, Los Angeles, Calif. 90007.

HOLT, DR. JAMES SAMUEL, b. Riverton, N.J, July 29, 38; m. 63; c. 1. AGRICULTURAL ECONOMICS. B.S, Pa. State, 59, Ph.D.(agr. econ), 65; Minnesota, 62-63. Instr. AGR. ECON, PA. STATE, 62 & 63-65, ASST. PROF, 65- Agr. Econ. Asn. Agricultural labor and rural manpower; rural poverty; farm management. Address: Dept. of Agricultural Economics, Pennsylvania State University, University Park, Pa. 16802.

HOLT, PHILLIP C(HRISTIAN), b. Kansas City, Mo, Aug. 21, 09; m. 35; c. 3. ECONOMICS. B.S, U.S. Naval Acad, 33. From sect. chief to asst. chief mil. div, U.S. Bur. Budget, 49-63; disarmament adv, U.S. Arms Control & Disarmament Agency, 63-66; ASSOC. & WASH. REP, AV COLABELLA, ENGRS, BORDENTOWN, N.J, 67- Consult, Arms Control & Disarmament Agency, 67-68. U.S.N.R, 42-46, Capt; Navy Cross; Legion of Merit. Military economics and engineering; finance administration. Address: 8105 Kerry Lane, Chevy Chase, Md. 20015.

HOLT, PROF. ROBERT R(UTHERFORD), b. Jacksonville, Fla, Dec. 27, 17; m. 44, 57, 63; c. 4. CLINICAL & PERSONALITY PSYCHOLOGY. A.B, Princeton, 39; M.A, Harvard, 41, fel, 42-44, Ph.D.(psychol), 44. Tutor, Radcliffe Col, 42-44; study dir, div. prog. surv, U.S. Dept. Agr, 44-46; clin. psychologist, Winter Vet. Admin. Hosp, Topeka, Kans, 46-49; assoc. psychologist, Menninger Found, 47-49, sr. psychologist, 49-51, dir. psychol. staff, 51-53; assoc. prof. CLIN. PSYCHOL, GRAD. SCH. ARTS & SCI, N.Y. UNIV, 53-58, PROF, 58-, CO-DIR, RES. CENTER MENT. HEALTH, 63-, dir, 53-63. Fel, Center Adv. Study Behav. Sci, 60-61; Nat. Inst. Ment. Health spec. res. fel, 60-61, res. career award, 62; vis. prof, Harvard, 67-68. Consult, various hosps. & acad. & govt. agencies. Pres, Coun. Res. Bibliog, 65- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 52. Fel. AAAS; fel. Psychol. Asn; Soc. Psychol. Study Social Issues; Psychonomic Soc; Fedn. Am. Sci. Critical analysis and revision of psychoanalytic theory; assessment of personality and psychopathology by diagnostic tests; measurement of psychoanalytic variables, especially primary and secondary processes, by projective techniques; experimental study of cognition. Publ: Co-auth, Personality patterns of psychiatrists, 58; ed. & co-auth, Motives and thought, 67; ed, Diagnostic psychological testing, 68. Address: Research Center for Mental Health, New York University, Washington Square, New York, N.Y. 10003.

HOLT, PROF. ROBERT T, b. Caledonia, Minn. July 26, 28; m. 57; c. 3. POLITICAL SCIENCE. A.B, Hamline, 50; M.P.A, Princeton, 52, Ph.D.(polit. sci), 57. Res. asst, Princeton, 51-52; instr. POLIT. SCI, overseas br, Univ. Maryland, Germany, 54 & 56; MINNESOTA, MINNEAPOLIS, 56-57, asst. prof, 57-60, assoc. prof, 60-64, PROF, 64-, DIR. CENTER COMP. STUDIES TECH. DEVELOP. & SOC. CHANGE, 67- Res. asst, Off. Naval Res. Proj, Univ. Minnesota, summer 52; fel, Center Study Behav. Sci, Calif, 61-62. U.S.A, 53-54. AAAS; Polit. Sci. Asn; Soc. Pub. Admin. Comparative political development, especially political and economic growth. Publ: Co-auth, Strategic psychological operations and American foreign policy, Univ. Chicago, 60; The political basis of economic development: an exploration in comparative political analysis, Van Nostrand, 65; Political parties in action, MacMillan, 68. Address: Center for Comparative Studies in Technological Development & Social Change, University of Minnesota, Minneapolis, Minn. 55455.

HOLTOM, PROF. C. MARJORIE, b. Three Rivers, Mich, Aug. 26, 25. COUNSELING, EDUCATION. B.S, Western Michigan, 46; Nat. Found. Infantile Paralysis fel. & M.A, Michigan, 58, Am. Occup. Ther. Fel. & Ph.D.(counseling & guid), 64. Occup. therapist, U.S. Naval Hosp, Ill, 46-51; Rancho Los Amigos, 52; instr. occup. ther, Eastern Michigan, 52-57, asst. prof, 58-60; occup. therapist, Univ. Michigan Med. Center, 60-61; instr. counseling, Michigan, 62-63; PROF. PSYCHOL. & GUID. & ASSOC. DEAN STUDENTS, CHADRON STATE COL, 65- Occup. Ther. Asn; Personnel & Guid. Asn. Publ: Some effects of peer-rated feedback on counselor candidates, Univ. Microfilms, 64. Address: Dept. of Psychology & Guidance, Chadron State College, Chadron, Nebr. 69337.

HOLTON, DEAN RICHARD H(ENRY), b. Columbus, Ohio, Mar. 17, 26; m. 47; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. B.S, Miami (Ohio), 47; M.A, Ohio State, 48; Ph.D.(econ), Harvard, 52. Asst. proj. dir, soc. sci. res. center, Puerto Rico, 51-52; asst. prof. econ, Harvard, 53-57; prof. bus. admin. & dir. inst. bus. & econ. res, CALIFORNIA, BERKELEY, 57-67, DEAN SCHS. BUS. ADMIN, 67- Fulbright scholar, Greece & Italy, 61. Spec. asst. to secy. commerce, U.S. Dept. Commerce, 62-63, asst. secy. econ. affairs, 63-65; chmn, President's Consumer Adv. Coun, 65-66. Econ. Asn. Economics of the distributive sector; economic development. Publ: Co-auth, Canadian economy: prospect and retrospect; auth, Price discrimination at retail: the supermarket case, J. Indust. Econ; co-auth, Marketing efficiency in Puerto Rico. Address: School of Business Administration, University of California, Berkeley, Calif. 94720.

HOLTZ, PROF. ADRIAN A(UGUSTUS), Econ, Sociol, see 9th ed, Soc. & Behav. Vols, deceased.

HOLTZ, DR. JAMES N, b. Monroe, Mich, Jan. 7, 33; m. 54; c. 4. ECONOMICS. A.B, Michigan, 53, M.B.A, 55, Rodkey fel, 58, Ph.D.(bus. admin), 62. Personnel exam, City of Detroit, 53-55; prod. supvr, Ford Motor Co, 55-56, financial analyst, 56-57; instr. mgt, Eastern Michigan, 57-58; finance, Michigan, 59-62; asst. prof, California, Los Angeles, 62-67; ASSOC. PROF. PUB. ADMIN, VIRGINIA, 67- Consult, systs. div, Bendix Corp, 61; Rand Corp, 63- Mem, Nat. Fedn. Financial Analysts Socs. Econ. Asn; Finance Asn; Soc. Pub. Admin. Working capital management; management scheduling techniques; capital investment theory; business-government interface relationships. Publ: Co-auth, Working capital management, Masterco, 62; auth, An analysis of major scheduling techniques in the aerospace industry, Rand Corp, 66; Cash budgeting in the small firm, Prentice-Hall, 67. Address: Dept. of Government & Foreign Affairs, 232 Cabell Hall, University of Virginia, Charlottesville, Va. 22901.

HOLTZMAN, PROF. ABRAHAM, b. Detroit, Mich, Nov. 3, 21; m. 47; c. 3. POLITICAL SCIENCE. B.A, California, Los Angeles, 43, fel, 45-48, M.A, 47; M.A, Harvard, 50, fel, 50-52, Ph.D.(govt), 52. Asst. polit. sci, California, Los Angeles, 45, br. govt. res, 48; tutor govt, Harvard, 50-52; instr. dept. govt, Dartmouth Col, 52-53; staff asst. to chmn, Democratic Nat. Cmt, 54; asst. prof. POLIT. SCI, N.C. STATE, 55-57, assoc. prof, 57-62, PROF, 62- Soc. Sci. Res. Coun. grant, 62-63. Election exam, Nat. Labor Rels. Bd, 48; adv, rules cmt, Democratic Nat. Convention, 60. Mem. cmt. income maintenance & employment, Governors Coord. Cmt. Aging, N.C, 60. U.S.A, 43-45, 1st Lt. Polit.Sci. Asn.(Congressional fel, 53-54). Parties interest groups and legislatures; state and local government; gerontology. Publ: The loyalty pledge controversy in the Democratic Party, McGraw, 60; The Townsend Movement, a political study, Bookman Assocs, 63; Interest groups and lobbying, Macmillan, 66. Address: Dept. of Politics, North Carolina State University, Raleigh, N.C. 27607.

HOLTZMAN, PROF. PAUL D(OUGLAS), b. Los Angeles, Calif, Apr. 4, 18; m. 51; c. 1. PSYCHOLOGY. B.A, La. State, 41; M.A, Southern California, 48, Ph.D, 50. Exec. dir, Surplus Exchange Corp, 46-47; asst. speech, Southern California, 47-48; instr. speech & dir. lab, San Francisco State Col, 48-51; instr. SPEECH, Queens Col.(N.Y), 51-57, counsr, 56-57; PROF, PA. STATE, 57-, DIR. LANG. TESTING CENTER, 61- Summer vis. assoc. prof, Albany State Col, 56; vis. prof. speech & consult. Hawaii Curriculum Center, Univ. Hawaii, 68. U.S.A.A.F, 43-46, Sgt. Psychol. Asn; Speech Asn; Soc. Study Commun; Nat. Asn. For. Student Affairs; Teachers of Eng. to Speakers of Other Lang. Speech; psycholinguistics, especially development and function of perceptual readiness and expectancy mechanisms in interpersonal communication; stuttering; listening; persuasion. Publ: Co-auth, Communicative speaking and listening, Holt, 68; auth, The psychology of speakers' audiences, Scott, 68. Address: 317 Sparks Bldg, Pennsylvania State University, University Park, Pa. 16802.

HOLTZMAN, DEAN WAYNE H(AROLD), b. Chicago, Ill, Jan. 16, 23; m. 47; c. 4. PSYCHOLOGY. B.S, Northwestern, 44, M.S, 47; fel, Stanford, 48-49, Ph.D.(psychol), 50. Asst. psychol, Northwestern, 46-47; Stanford, 47-48, counsr, guid. center, 48; asst. prof. PSYCHOL, TEXAS, 49-53, assoc. prof, 53-59, PROF, 59-, DEAN COL. ED, 64-, acting dir, Hogg Found. Ment. Health, 54, assoc. dir, 55-64. Soc. Sci. Res. Coun. faculty res. fel, 54-55; fel, Center Adv. Study Behav. Sci, 62-63. Consult. psychologist, Menninger Found, Kans. Mem. div. behav. sci, Nat. Res. Coun, 65-68; cmn. tests, Col. Entrance Exam. Bd. & adv. cmn, Carnegie Study Ed. of Educators, 66. Helen D. Sargent Mem. award, Menninger Found, 62. U.S.N, 40-46, Lt.(jg). AAAS; Psychol. Asn; Inter-Am. Soc. Psychol.(pres, 66-67); Statist. Asn. Personality measurement; statistical methods; test theory. Publ: Co-auth, Survey of study habits and attitudes, Psychol. Corp, 53, Inkblot perception and personality, 61 & Tomorrow's parents, 65, Univ. Texas. Address: College of Education, University of Texas, Austin, Tex. 78712.

HOLUBNYCHY, DR. V(SEVOLOD) S(ERHY), Econ, see 10th ed, Soc. & Behav. Vols.

HOLZ, DR. ROBERT K(ENNETH), b. Kankakee, Ill, Nov. 3, 30; m. 51; c. 1. GEOGRAPHY, CARTOGRAPHY. B.A, Southern Illinois, 58, M.A, 59; Ph.D.

(geog), Mich. State, 63. Asst. prof. GEOG, TEXAS, 62-67, ASSOC. PROF, 67- U.A.R-U.S.A. Ed. Exchange Fulbright summer fel, 65. Mem, Ont. Inst. Chartered Cartographers. U.S.A.F, 51-55, Res, 55-59, S/Sgt. Asn. Am. Geog; Am. Geog. Soc. Remote sensing of the environment; physical geography; North Africa. Publ: Geographic implications in the historical development of national forests, Vol. LXIV, J. Geog, 9/65; co-auth, A guide to the drafting of archaeological maps, Bull. Tex. Archaeol. Soc, 10/66; auth, Egypt—a study of effective national territory, Pa. Geogr, 3/67. Address: Dept. of Geography, University of Texas, Austin, Tex. 78712.

HOLZBERG, PROF. JULES D(ONALD), b. New York, N.Y, Mar. 5, 15; m. 42; c. 3. PSYCHOLOGY. B.S, City Col. New York, 37, M.S, 38, fel, 41-43; Ph.D.(clin. psychol), N.Y. Univ, 49. Sch. psychologist, pub. schs, N.Y, 37-39; clin. psychologist, Dept. Hosps, New York, 39-41; clin. instr, SCH. MED, YALE, 48-49, asst. clin. prof. PSYCHIAT, 49-58, ASSOC. CLIN. PROF, 58-; PROF. PSYCHOL, WESLEYAN, 63- Asst. prof, Connecticut, 49-58, assoc. prof, 58-68. Sch. psychologist, Westchester County Schs, 41-43; clin. psychologist, med. col, N.Y. Univ. & Fedn. Settlement, 41-43; dir. psychol. labs, Conn. State Hosp, 46-64, consult, 49-53, vis.lectr, 53-63; dir. res, 64-68. Ed, J. Consult. Psychol, 65-71. Med.C, 43-46, Capt. Fel. Psychol. Asn; fel. Orthopsychiat. Asn.(v.pres, 55); fel. Soc. Proj. Tech. & Personality Assessment (pres, Soc. Proj. Tech, 55). Clinical and experimental psychopathology; projective techniques; personality change; sex differences in psychopathology; psychology in community. Publ: Co-auth, Companionship with the mentally ill: effects on the personalities of college student volunteers, Psychiatry, 29: 395-405 & Correlates of the mental patient's acquisition of hospital information, J. Personality, 35: 323-342; Psychological theory and projective techniques, In: Ed, A.I. Rabin, Projective techniques in personality assessment, Springer, in press. Address: 55 Clover St, Middletown, Conn. 06457.

HOLZER, PETER D(AMIAN), O.F.M, b. Holton, Ind, Apr. 22, 22. POLITICAL SCIENCE. A.B, Our Lady of Angels Sem, 45; St. Joseph Sem, 48; M.A, Fordham, 51, Ph.D.(polit. philos), 53. Asst. prof. POLIT. SCI. & head dept, QUINCY COL, 53-59, assoc. prof, 59-64, PROF, 64-, V.PRES. & ACAD. DEAN, 63- Polit. Sci. Asn; Am. Soc. Int. Law; Acad. Polit. & Soc. Sci. Political philosophy; constitutional law. Address: Dept. of Political Science, Quincy College, 1831 College Ave, Quincy, Ill. 62301.

HOLZINGER, PROF. CHARLES H(ENRY), b. Lancaster, Pa, Apr. 17, 21; m. 46; c. 5. ANTHROPOLOGY. M.A, Chicago, 49; fel, Harvard, 58. Instr. sociol, FRANKLIN & MARSHALL COL, 49-52, asst. prof, 53-58, assoc. prof. sociol. & anthrop, 59-68, PROF. ANTHROP, 68-, CHMN. DEPT, 66- U.S.A, 41-46, Capt. Anthrop. Asn. Archaeology of eastern United States; ethnohistory of Iroquoian Tribes; culture and personality; cultural ethos and values. Publ: Some observations on the persistence of aboriginal Cherokee personality traits, In: Symposium on Cherokee and Iroquois culture. Address: Dept. of Anthropology, Franklin & Marshall College, Lancaster, Pa. 17604.

HOLZMAN, PROF. ALBERT G(EORGE), Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HOLZMAN, DR. ELEANORE M(ARIENNE) G(RUSHLAW), Psychol, see 10th ed, Soc. & Behav. Vols.

HOLZMAN, PROF. FRANKLYN D(UNN), b. Brooklyn, N.Y, Dec. 31, 18; m. 46; c. 2. ECONOMICS. A.B, North Carolina, 40; M.A, Harvard, 48, fel, 51-52, Ph.D.(econ), 52. Asst. prof. ECON, Washington (Seattle), 52-54, assoc. prof, 54-58, PROF, 58-60; TUFTS, 61- Nat. Sci. Found. sr. fel, 65-66; Am. Coun. Learned Socs. summer res. fel, 67. Consult, U.S. Dept. Treas, 50-52; UN Econ. Cmn. for Europe, 63; U.S. Arms Control & Disarmament, 64- U.S.A.A.F, 42-45. Econometr. Soc; Am. Econ. Asn; Asn. Adv. Slavic Studies; Royal Econ. Soc. Soviet economy; inflation; international trade. Publ: Soviet taxation; Discrimination in international trade, Am. Econ. Rev; Income determination in open inflation, Rev. Econ. & Statist. Address: 33 Peacock Farm Rd, Lexington, Mass. 02173.

HOLZMAN, DR. PHILIP S, b. New York, N.Y, May 2, 22; m. 46; c. 3. PSYCHOLOGY. B.A, City Col. New York, 43; Ph.D, Kansas, 52. Clin. psychologist, Topeka State Hosp, 50-51; SR. CLIN. PSYCHOLOGIST & PSYCHOANALYST, MENNINGER FOUND, 51-, INSTR, SCH. PSYCHIAT, 55-; TRAINING PSYCHOANALYST, TOPEKA INST. PSYCHOANAL, 64- Vis. prof, Univ. Minnesota, 65 & Univ. Kansas, 61, 66. Mem, small grants cmt, Nat. Inst. Ment. Health, 60-64, clin. projs. res. rev. cmt, 64-68. U.S.A, 43-46, Lt. AAAS; Psychol. Asn; N.Y. Acad. Sci. Psychoanalysis; cognition. Publ: Relation of assimilation tendencies in visual, auditory and kinesthetic time error to cognitive attitudes of leveling and sharpening, J. Personality; co-auth, Cognitive control, Monogr, Psychol. Issues; Voice as a percept, J. Personality & Soc. Psychol, 66. Address: Menninger Foundation, Box 829, Topeka, Kans. 66601.

HOLZMAN, PROF. ROBERT STUART, b. Paterson, N.J, Nov. 18, 07; m. 38. ECONOMICS. B.S, Pennsylvania, 29; A.M, N.Y. Univ, 47, Ph.D.(hist), 53. Former tax adminstr, Schenley Industs, Inc; pres, Fed. Tax Forum, 50; PROF. TAXATION, GRAD. SCH. BUS. ADMIN, N.Y. UNIV, 53- Hist. Asn. Taxation; pensions and profit-sharing. Publ: Tax basis for managerial decisions, Holt, 65; Tax-free reorganizations, Farnsworth, 67; Holzman on estate planning, Prentice-Hall, 67. Address: Graduate School of Business Administration, New York University, 100 Trinity Place, New York, N.Y. 10006.

HOLZNER, PROF. BURKART, b. Tilsit, Germany, Apr. 28, 31; m. 55; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. Dipl, Bonn, 56, Ph.D, 58; Wisconsin, 57-59. Acting instr. sociol, Wisconsin, 58-60; asst. prof, Pittsburgh, 60-63, assoc. prof. 63-65; assoc. dir. soc. sci. res. inst, Univ. Hawaii, 65-66; PROF. SOCIOL. & CHMN. DEPT, PITTSBURGH, 66- Dir. bd. visitors field staff, learning & develop. center, Pittsburgh, 64- Sociol. Asn; Psychol. Asn. Sociological theory; comparative study of social systems; social movements. Publ: Amerikansche und Deutsche Psychologie; Volkerpsychologie, Leitfaden mit Bibliographie; Reality construction in society, Schenkman, 67. Address: Dept. of Sociology, University of Pittsburgh, Pittsburgh, Pa. 15213.

HOLZNER, DR. E(RNST) LUTZ, b. Tilsit, Germany, Apr. 13, 38; m. 60; c. 1. GEOGRAPHY. Dr.rer. nat.(geog, geol), Würzburg, 64. ASSOC. PROF. GEOG, WISCONSIN, MILWAUKEE, 64- Asn. Am. Geog. Urban, political and settlement geography; geography of Europe and the Mediterranean. Publ: Schweinfurt am Main, Würzburger Geographische Arbeiten Heft 13, 4/64; co-auth, Toward a theory of cultural-genetic city classification, 6/67 & auth, World regions in urban geography, 12/67, Ann. Asn. Am. Geogr. Address: Dept. of Geography, University of Wisconsin, Milwaukee, Wis. 53201.

HOMAN, DR. A. GERLOF, b. Slochteren, Netherlands, Sept. 9, 25; nat; m. 56; c. 3. AGRICULTURAL ECONOMICS. Dipl, State Col. Agr, Netherlands, 47; A.B, Bethel Col.(Kans), 49; M.S, Kansas State, 51; summer, scholar, Inst. World Affairs, 51; Rockefeller fel, Stanford, 52-53; Ph.D.(int. econ), Oregon, 61. Asst. agr. econ, Kansas State, 50-52; asst. res. economist, Stanford Res. Inst, 53-55, economist, 55-62; ECONOMIST & CHIEF INT. RES, ECON. DEPT, BANK OF AM, HQ, SAN FRANCISCO, 62- Mem. faculty, prog. for Bechtel Corp, exten, Univ. California, 64- Chmn. U.S. Trade Policy Cmt, Calif. Coun. Int. Trade. Econ. Asn; Agr. Econ. Asn. Economic studies of private and public investments in food and agriculture, and how these investments affect the balance of payments. Publ: Some measures and interpretations of the effects of U.S. foreign enterprises on the U.S. balance of payments, Stanford Res. Inst, 8/62; co-ed, The engineering-construction industry, an economic analysis, Bechtel Corp, 8/65; The outlook for agricultural imports into Europe, Univ. California, 3/66. Address: 135 Hillside Ave, Piedmont, Calif. 94611.

HOMAN, PROF. PAUL T(HOMAS), b. Indianola, Iowa, Apr. 12, 93. ECONOMICS. A.B, Willamette, 14; B.A, Oxford, 19; Ph.D, Brookings Inst, 26. Instr. econ, Washington (St. Louis), 23-25; asst. prof, California, 26-27; Cornell, 27-29, prof, 29-47; sr. economist, Coun. Econ. Advs, 47-50; prof. econ, California, Los Angeles, 50-59; dir. grad. econ, Southern Methodist, 59-64. Mem. res. staff, Brookings Inst, 33-35, 37-38; adv, War Prod. Bd, 41-44; UNRRA, Eng, 44-45; War Assets Admin, 45-46; Ford faculty res. fel, 56-57. Consult. economist, Resources for Future, Inc, 65-Econ. Asn.(ed, Am. Econ. Rev, 41-52; v.pres, 56). History of economic thought; public control of business. Publ: Contemporary economic thought; co-auth, National recovery administration; Economic aspects of oil conservation regulation, Hopkins, 67. Address: 19 Abbey Rd, Brighton 7, Sussex, Eng.

HOMANN, DR. HAL W, b. Alton, Ill, May 28, 35; m. 58; c. 2. SPEECH PATHOLOGY. B.S, Lawrence, 57; fel. & M.A, Western Michigan, 58; fel. & Ph.D.(speech & hearing sci), Ohio State, 63. Nat. Insts. Health fel, Ohio State, 63-64; asst. prof. SPEECH & HEARING SCI, WIS. STATE, OSHKOSH, 64-68, ASSOC. PROF, 68- U.S.A.R, 58-64. Speech & Hearing Asn. Communication pathology; hearing function of speaking. Address: Dept. of speech, Wisconsin State University, Oshkosh, Wis. 54901.

HOMANS, PROF. GEORGE C(ASPAR), b. Boston, Mass, Aug. 11, 10; m. 41; c. 3. SOCIOLOGY. A.B, Harvard, 32, jr. fel, 34-39. Faculty instr. SOCIOL, HARVARD, 39-46, assoc. prof, 46-53, PROF, 53- Simon vis. prof, Manchester, 53; prof, Cambridge, 55-56; vis. prof, Kent, 67. U.S.N.R, 41-45, Lt. Comdr. Sociol. Asn.(v.pres, 61, pres, 63-64); Soc. Appl. Anthrop; Anthrop. Asn; Philos. Soc. Sociological theory; industrial relations. Publ: The human group, Harcourt, 50; Social behavior; The nature of social science, Harcourt, 67. Address: William James Hall, Harvard University, Cambridge, Mass. 02138.

HOMBURGER, PROF. RICHARD H, b. Karlsruhe, Germany, Aug. 15, 14; U.S. citizen; m. 47; c. 1. ACCOUNTING. Sorbonne, 34; J.D, Zurich, 37; M.S, Columbia, 46. Head dept. bus. admin, W.Va. State Col, 46-56; assoc. prof. ACCT, WICHITA STATE, 56-61, PROF, 61-, COORDINATOR GRAD. STUDIES ACCT. & ED. BUS. J, 67- Am. Acct. Asn. Accounting theory; history of accounting. Publ: Measurement in accounting, Acct. Rev, 1/61; Accounting in historical perspective, Southwest. Soc. Sci. Quart, 12/62; co-auth, chap, In: Accountants' encyclopedia, Prentice-Hall, 64. Address: Dept. of Accounting, Wichita State University, Wichita, Kans. 67208.

HOMME, DR. LLOYD E(LLWOOD), b. Goodhue Co, Minn, Dec. 5, 17; m. 52. EXPERIMENTAL PSYCHOLOGY. B.A. & M.A, Southern Methodist, 48; Ph.D, Indiana, 52. Pres, Teaching Mach, Inc, 60-63, chmn. bd, 63-65; mgr. behav. tech. dept, res. labs, Westinghouse Elec. Corp, 65-67, MGR. RES. DEPT, BEHAVIOR SYSTS. DIV, WESTINGHOUSE LEARNING CORP, 67- Vis. assoc. prof, New Mexico, 64-65, clin. assoc, 66-; dir, TMI Inst, 64-65. U.S.A, 42-46, Capt. AAAS; Psychol. Asn. Operant conditioning; teaching machines and programing. Publ: Co-auth, Contingency contracting, Westinghouse Learning Corp, 67; contrib, Teaching machines and programmed learning & Laboratory studies in the analysis of behavior. Address: 7009 Aztec N.E, Albuquerque, N.Mex. 87110.

HOMMEL, DR. LEONARD SEYMOUR, b. Detroit, Mich, July 8, 32; m. 59; c. 2. PSYCHOLOGY. B.A, Wayne, 55; M.A, Iowa, 57; Ph.D.(psychol), Stanford, 61. Instr. PSYCHOL, Nevada, 60-61; asst. prof, CALIF. STATE COL. LONG BEACH, 61-65, ASSOC. PROF, 65- Nat. Insts. Health res. grant, 64-65. AAAS; Psychol. Asn. Animal motivation and learning. Publ: Increased intensity of a running response following exposure to a visually complex situation, Psychol. Record, 7/66; co-auth, Resistance to extinction following exposure to a complex situation, Psychonomic Sci. 66. Address: 4830 Larwin Ave, Cypress, Calif. 90630.

HOMRA, DR. CHARLES ABRAHAM, b. Covington, Tenn, Apr. 22, 31; m. 57; c. 2. PSYCHOLOGY. B.S, Memphis State, 53; M.A, Murray State, 61; Ph.D. (psychol), Fla. State, 66. Teacher, high sch, Tenn, 58-60; instr. PSYCHOL, MURRAY STATE, 61-63, ASST. PROF, 66- U.S.N, 53-57, Lt.(jg). Operant conditioning in school situations; testing; test construction. Address: Dept. of Psychology, Murray State University, Murray, Ky. 42071.

HOMZIE, DR. MARVIN J(EROME), b. Harrisburg, Pa, Aug. 29, 35; m. 60; c. 1. PSYCHOLOGY. B.S, Wisconsin, 61; U.S. Pub. Health Serv. fel, Iowa, 62-64, M.A, 63, Ph.D.(psychol), 64. ASST. PROF. PSYCHOL, Denver, 64-67; VIRGINIA, 67- U.S. Pub. Health Serv. grants, 66-68. Consult, Ft. Logan Ment. Health Center, 66-67. Sig.C, U.S.A, 54-57. Psychol. Asn. Experimental psychology, especially theories of learning, instrumental and classical conditioning and verbal learning. Publ: Co-auth, Runway performance following a reduction in the concentration of a liquid reward, J. Comp. Physiol. Psychol, 55: 1029-33, 62; Transfer of training as a function of stimulus and response integration of paired-associates, 74: 383-88, 67 & auth, Separate phase differential eyelid conditioning within the context of a masking procedure, 68, J. Exp. Psychol. Address: Dept. of Psychology, Gilmer Hall, University of Virginia, Charlottesville, Va. 22901.

HON, PROF. RALPH C(LIFFORD), b. Jonesboro, Ark, Jan. 29, 03; m. 30. ECONOMICS. A.B, Illinois, 24; A.M, Harvard, 27; American Univ, 28-29; Ph.D, North Carolina, 30. Prof. econ. & bus. admin, Nebr. Wesleyan, 29-31; assoc. prof. ECON, SOUTHWESTERN AT MEMPHIS, 31-36, PROF, 36- Vis. prof. Duke, 41-43. Analyst, Securities & Exchange Cmn, 43-46; mem. panels, Fed. Mediation & Conciliation Serv. Econ. Asn; Indust. Rels. Res. Asn; Arbit. Asn. Publ: Rust cotton picker; South in a war economy. Address: Dept. of Economics, Southwestern at Memphis, Memphis, Tenn. 38112.

HONEY, PROF. JOHN C, b. N.J, Apr. 7, 17; m. 41; c. 3. POLITICAL SCIENCE. A.B, Columbia, 39; fel, Syracuse, 40-42, M.A, 43, Ph.D.(polit. sci), 50. Vis. prof, Puerto Rico, 47-49; res. assoc, Maxwell Sch, Syracuse, 49-51; asst. dir. Caribbean Div, U.S. Dept. Interior, 51-52, mem. prog. staff, off. secy, 52-53; DIR. STUDY, GOVT. RES. PROG, NAT. SCI. FOUND, 53-; PROF. POLIT. SCI, MAXWELL SCH, SYRACUSE, 65- Prof. lectr, American Univ, 50-; exec. assoc, Carnegie Corp. of N.Y, 57-61; assoc. dir, Inst. Pub. Admin, N.Y, 61-65. Consult, Fed. Civil Defense Admin, 51; Ford Found, 65-66. Ed, Res. Notes, 55- U.S.A.A.F, 42-45. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. Government planning; government administration of scientific research; Latin American public administration development; higher education for public service in the United States. Publ: Co-auth, University-sponsored executive development programs in the public service, Govt. Printing Off, 66; auth, Toward strategies for public administration development in Latin America, Syracuse, 67; Higher education for public service, Pub. Admin. Rev, 11/67. Address: Syracuse House, Syracuse University, 11 E. 61st St, New York, N.Y. 10021.

HONG, DR. EVERETTE N(ELS), b. Soldier, Iowa, Nov. 15, 09; m. 37; c. 3. FINANCE. B.A, Washington (Seattle), 34; Ph.D, Southern California, 43. Exec. asst. econ. res, Consol. Vultee Aircraft Corp, 41-45; assoc. prof. econ, Syracuse, 45-49; finance, Iowa State, 49-53; vis. prof, Tulane, 53-54; head div. econ. & bus, Col. William & Mary, 54-58; prof. mgt. & chmn. dept, Southern Illinois, 58-67; PROF. MGT, GRAD. SCH. BUS, GEORGIA, 67- Econ. adv,Tidewater Develop. Coun, Va, 55-58. Econ. Asn. Principles of management, especially organization and control. Address: Graduate School of Business, University of Georgia, Athens, Ga. 30601.

HONG, DR. WONTACK, b. Seoul, Korea, Aug. 20, 40. ECONOMICS. B.A, Seoul, 62; M.A, Columbia, 64, Ph.D.(econ), 66. ASST. PROF. ECON, WISCONSIN, MILWAUKEE, 66- Econ. Asn. International trade and economic growth. Publ: Industrialization and trade in manufactures: the East Asian experience, In: The open economy: essays on foreign trade and finance, Columbia Univ, 68; The Heckscher-Ohlin theory of factor price equalization and the indeterminancy in international specialization, Int. Econ. Rev, 2/69. Address: Dept. of Economics, Bolton 510, University of Wisconsin, Milwaukee, Wis. 53211.

HONIG, DR. WERNER K(ONSTANTIN), b. Gottingen, Germany, June 20, 32; nat; m. 57; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Swarthmore Col, 53; U.S. Pub. Health Serv. fel, Duke, 56-57, Ph.D.(psychol), 58. Asst. PSYCHOL, Duke, 53-56; asst. prof, Denison, 57-64; ASSOC. PROF, DALHOUSIE, 64- Psychol. Asn. Stimulus generalization, discrimination and choice behavior in animals; visual perception; conceptual problems in psychology. Address: Dept. of Psychology, Dalhousie University, Halifax, N.S, Can.

HONIGFELD, DR. GILBERT, b. Newark, N.J, Sept. 24, 34; m. 55; c. 1. CLINICAL PSYCHOLOGY. B.A, Rutgers, 57; M.A, Temple, 58, Ph.D.(clin. psychol), 61. Asst. chief cent. neuropsychiat. res. lab, Vet. Admin. Hosp, Perry Point, Md, 61-66; SR. RES. ASSOC, HILLSIDE HOSP, 66- Participant, prog. behav. modification, State Univ. N.Y. Stony Brook, 67- Consult, psychopharmacol. res. br, Nat. Inst. Ment. Health, 63-; Squibb Inst. Med. Res, 66- AAAS; Psychol. Asn; Int. Neuropsychol. Soc. Psychological factors in psychiatric diagnosis and treatment; development of neuropsychological test procedures for assessing brain damage; central nervous system determinants of verbal comprehensibility. Publ: Neurological efficiency, perception, and personality, Perceptual & Motor Skills, 15: 531-553; Non-specific factors in treatment. II Review of social psychological factors, Diseases Nerv. Syst, 25: 145-156, 225-239; Close analysis in the evaluation of central determinants of comprehensibility, In: Research in verbal behavior, Academic, 67. Address: Hillside Hospital, 75-59 263rd St, Glen Oaks, N.Y. 11004.

HONIGMANN, PROF. JOHN J(OSEPH), b. New York, N.Y, June 7, 14; m. ANTHROPOLOGY. B.A, Brooklyn Col, 42; Columbia, 42; M.A. & Ph.D.(anthrop), Yale, 47. Asst. prof. sociol. & anthrop, State Col. Wash, 46-47; res. anthropologist, Nat. Cmt. Community Health Studies, 47-48; asst. prof. SOCIOL. & ANTHROP, Wash. Sq. Col, N.Y. Univ, 48-51; from assoc. prof. to PROF, NORTH CAROLINA, CHAPEL HILL, 51-, RES. ASSOC, INST. RES. SOC. SCI, 56- Anthrop. Asn; fel. Ethnol. Soc; Int. African Inst. Ethnography of northern North America and Pakistan; culture and personality; social psychology and applied anthropology. Publ: The world of man; Understanding culture, 63 & Personality in culture, 67, Harper. Address: Dept. of Anthropology, University of North Carolina, Chapel Hill, N.C. 27514.

HONIGSHEIM, PROF. PAUL, Sociol, see 10th ed, Soc. & Behav. Vols, deceased 63.

HONKALEHTO, PROF. OSWALD, b. Quincy, Mass, Jan. 2, 28; m. 54; c. 2. ECONOMICS. S.B, Mass. Inst. Tech, 50, S.M, 55; sr. res. fel, Carnegie Inst. Tech, 57-59. Asst, off. pop. res, Princeton, 55-56; Mass. Inst. Tech, 56-57; lectr. ECON, Mich. State, 59-62; ASST. PROF. COLGATE, 62- U.S.A, 46-47, Sgt. Econ. Asn. Pure theory of production; economics of natural resources. Address: Dept. of Economics, Colgate University, Hamilton, N.Y. 13346.

HONNOLD, JUNIA H(ELENE), b. Indianola, Iowa, Apr. 22, 95. ECONOMICS. A.B, Simpson Col, 17; M.A, Columbia, 20, Roberts fel, 30-34. Econ. analyst, U.S. Govt, 42-62; RETIRED. Econ. Asn. Mortgage financing and housing; money, banking and finance. Publ: Co-auth, Residential finance, Wiley, 57. Address: 229 N. Piedmont St, Arlington, Va. 22203.

HONOMICHL, JACK JAY, b. Detroit, Mich, Dec. 31, 28; m. 55; c. 4. SOCIAL RESEARCH. B.S, Northwestern, 55; A.M, Chicago, 56. Mgr. mkt. res. dept, Chicago Tribune, 57-63; v.pres, Mkt. Res. Corp. Am, 63-66; DIR, CENTER BEHAV. RES. SURV. SERV. & V.PRES, AUDITS & SURVEYS, INC, 66- Guest lectr, sch. bus, Boston, 66; Amos Tuck Sch, Dartmouth Col, 67; Pace Col, 67. U.S.N, 51-54. Asn. Pub. Opinion Res; Mkt. Asn; Sociol. Asn. Application of survey research to development of empirical data in the behavioral sciences. Publ: What is cybernetics?, 63 & Decision making in a new dimension, 64, Challenge; What is operations research, and how can it be used?, Progressive Grocer, 66. Address: 22 Bronson Ave, Scarsdale, N.Y. 10583.

HONZIK, DR. CHARLES H, Psychol, see 10th ed, Soc. & Behav. Vols.

HONZIK, DR. MARJORIE K(NICKERBOCKER) P(YLES), b. Johannesburg, S.Africa, May 14, 08; m. 35; c. 2. PSYCHOLOGY. A.B, California, 30, A.M, 33, Ph.D.(child psychol), 36; Nat. Child Res. Center fel, 31-32. Asst, INST. HUMAN DEVELOP, CALIFORNIA, BERKELEY, 32-33, 34-36, res. assoc, 36-53, assoc. res. psychologist, 53-65, RES. PSYCHOLOGIST, 65-, lectr. psychol, 54, ed, 55-57. Nat. Coun. Parent Ed. fel, 33-34; Gen. Ed. Bd. fel, California, 38-40; lectr, Mills Col, 52-59. Spec. consult, Nat. Inst. Neurol. Diseases & Blindness; consult. psychologist, neurol. res. unit, Presby. Med. Center, San Francisco, 60- Fel. Psychol. Asn; fel. Soc. Res. Child Develop. Child development; factors related to the development of intelligence; psychosomatic relationships; minimal brain injury in infancy and mental growth. Publ: Developmental studies of parent-child resemblance in intelligence, Child Develop; co-auth, Developmental study of the behavior problems of normal children between 21 months and 14 years & The stability of mental test performance between two and eighteen years, J. Exp. Ed. Address: 2614 Stuart St, Berkeley, Calif. 94705.

HOOD, DR. KENNETH, b. New Castle, Pa, July 31, 07; m. 41; c. 2. AGRICULTURAL ECONOMICS & MARKETING. B.S, Pa. State, 30; Ph.D.(agr. econ), Cornell, 34. Instr. mkt. exten, Cornell, 34-35; asst. prof, Pa. State, 35-39, assoc. prof, 39-46, prof. mkt. exten, & head agr. econ. exten, 46-52; asst. dir. commodity depts, Am. Farm Bur. Fedn, 52-54, asst. secy. info. div, 54-56, dir. commodity div, 56-66; GEN. MGR, AM. AGR. MKT. ASN, 66- Ed, Pa. Farm Econ, 40-52. U.S.A, 43-44, Sgt. Agr. Econ. Asn; Mkt. Asn. Marketing of agricultural products; agricultural legislation. Publ: Economic page, Pa. Farmer, 45-60; co-auth, Market roundup, Nation's Agr, 52- Address: American Agricultural Marketing Association, 1000 Merchandise Mart, Chicago, Ill. 60654.

HOOD, DR. PAUL D(OUGLASS), b. Norwood, Ohio, May 2, 27; m. 53. PSYCHOLOGY. B.A, Franklin Col, 50; M.A, Ohio State, 50, Ph.D.(psychol), 53. Res. assoc, personnel res. bd, Ohio State, 53-55; res. psychologist, Air Force Personnel & Training Res. Center, 55-57; sr. staff scientist, HumRRO, George Washington, 57-66; PROG. DIR. COMMUNICATIONS, FAR WEST LAB. ED. RES. & DEVELOP, 66- U.S.A, 45-47. Psychol. Asn; Sociol. Asn. Social psychology; man-machine systems; social organization; leadership and team training. Address: 965 Longridge Rd, Oakland, Calif. 94610.

HOOD, DR.W(ILLIA)M C(LARENCE), b. Can, Sept. 13, 21; m. 48; c. 1. ECONOMICS. B.A, Mt. Allison, 41; M.A, Toronto, 43, Ph.D.(econ), 48. Lectr. econ, Toronto, 46-49, asst. prof, 50-56, spec. lectr. statist, 50-60, assoc. prof. econ, 56-59, prof, 59-64; ADV, BANK OF CAN, 64- Fel, Chicago, 49; res. assoc, Cowles Cmn, 49-50, res. consult, Cowles Cmn. & Cowles Found. Res. Econ, 50-; sr. economist, Royal Cmn. Can. Econ. Prospects, 55-56. Mem. acad. panel, Can. Coun, 65- Civilian meteorologist with R.C.A.F, 43-44. Econ. Asn; Statist. Asn; Economet. Soc; Inst. Math. Statist; Inst. Mgt. Sci; Can. Polit. Sci. Asn; Royal Econ. Asn. The capital market; economic theory; mathematical economics and econometrics. Publ: Studies in econometric method; output labor and capital in the Canadian economy; Financing of economic activity in Canada. Address: Bank of Canada, 234 Wellington St, Ottawa, Ont, Can.

HOOK, PROF. JOHN C(LINTON), Phys. Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HOOK, PROF. RALPH C, JR, b. Kansas City, Mo, May 2, 23; m. 46; c. 2. BUSINESS ADMINISTRATION. A.B, Missouri, 47, M.A, 48; Ph.D.(bus. admin, mkt), Texas, 54. Instr. econ. & bus, Missouri, 47-48, instr. mkt, 48; asst. prof, Agr. & Mech. Col, Tex, 48-51; lectr, Texas, 51-52; co-owner & mgr, Hook Buick Co. & Hook Truck & Tractor Co, 52-58; assoc. prof. mkt. & chmn. dept. gen. bus, ARIZONA STATE, 58-60, PROF. MKT, 60-, dir. bur. bus. res. & serv, 58-66. Lectr, Kansas City, 53-57, assoc. prof, 57-58; Ford Found. summer fel, workshop res. methods, Dartmouth Col, 63; Found. Econ. Ed. summer fel. bus, 65. U.S.A, 43-46, Res, 46-, Lt. Col. Mkt. Asn.(v.pres, 65-67). Economic and industrial development, market potential analysis; management development; area and location analysis; corporate planning. Publ: Co-auth, Arizona's tax structure, Ariz. Acad, 62, The economy of Arizona, Employ. Security Cmn. Ariz, 64 & Phoenix downtown study, Ariz. State Univ, 66. Address: College of Business Administration, Arizona State University, Tempe, Ariz. 85281.

HOOKER, PROF. DOUGLAS, b. Highland Park, Mich, Jan. 3, 25. EDUCATIONAL PSYCHOLOGY, SOCIOLOGY. A.B, Wofford Col, 50; M.A, Wayne State, 52; Ph.D.(ed. psychol), Texas, 59; Princeton, 67; Cambridge, 68. Instr. Eng, Detroit, 52-54; res. assoc. ed, Texas, 55-58; instr. counseling psychol, E.Tex. State Col, 58-60, asst. prof, 60-61; PSYCHOL, SOUTHWESTERN (TEX), 61-63, assoc. prof, 63-67, PROF, 67-, CHMN. DEPT, 63- Summer vis. prof, S.Dak. State, 63 & 64. Consult, human resources develop. conf, Miss. State, 67. R.N, 43-46. Psychol. Asn; Personnel & Guid. Asn. Mental health; counseling; psychology and religion. Publ: Coauth, The psychology of the emerging self, Davis, 67. Address: Southwestern University Station, Box 336, Georgetown, Tex. 78626.

HOOKER, DR. EVELYN, b. North Platte, Nebr, Sept. 2, 07; m. 51. PSYCHOLOGY. A.B, Colorado, 28, M.A, 30; Ph.D, Hopkins, 32. Instr. PSYCHOL, Md. Col. for Women, 32-34; Whittier Col, 36-37, asst. prof, 38-39; res. assoc. & exten. lectr, California, Los Angeles, 39-47; assoc. prof, Bryn Mawr Col, 47-48; res. assoc. & exten. lectr, CALIFORNIA, LOS ANGELES, 48-66, RES. PSYCHOLOGIST, 66- Lectr, Calif. Inst. Tech, 55-; mem. staff, Tavistock Clin, London, Eng, 50-51. AAAS; Psychol. Asn; Sociol. Asn. Sexual deviation, particularly personality and culture pattern correlates. Publ: Adjustment of the male, overt homosexual; Male homosexuality in the Rorschach; Preliminary analysis of group behavior of homosexuals. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

HOOKER, DR. JAMES R, Mod. Colonial African Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOOKS, DR. JANET M, b. Holyoke, Mass; m. 37; c. 2. ECONOMICS. A.B, Mt. Holyoke Col, 33; M.A, Bryn Mawr Col, 34; Ph.D, Illinois, 60. Jr. economist, bur. home econ, U.S. Dept. Agr, 36-40; from asst. economist to economist, women's bur, U.S. Dept. Labor, 40-48; instr. ECON, Illinois, 60-61; ASST. PROF, EASTERN ILLINOIS, 63- Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn. Publ: Co-auth, American income and its use, Harper, 54; co-auth, Employment of women in the federal government, 1923-1939, Women's Bur. Bull. 182, 41 & auth, Women's occupations through seven decades, Women's Bur. Bull. 218, 47, U.S. Dept. Labor. Address: Dept. of Economics, Eastern Illinois University, Charleston, Ill. 61920.

HOOPER, DR. H(ERBERT) ELSTON, b. Rapid City, Can, Dec. 14, 20; nat; m. 54; c. 2. CLINICAL PSYCHOLOGY. A.B, California, Los Angeles, 42; M.A, Southern California, 48, Ph.D.(clin. psychol), 50. Clin. psychologist, Vet. Admin. Hosp, Long Beach, Calif, 50-55, asst. chief psychologist, 55-60, chief, Vet. Admin. Cent. Res. Lab, Ga, 60-61, psychol. res, VET. ADMIN. CENT. OFF, 61-67, ASST. DIR. RES. SERV, 67- U.S.A.A.F, 42-46. Psychol. Asn. Psychophysiology; psychological aspects of physical disorders; development of psychodiagnostic tests. Publ: The Hooper visual organization test; chap. in Clinical studies in culture conflict; co-auth, Psychosocial study of the patient with pulmonary tuberculosis, Psychol. Monogr. Address: Veterans Administration, 810 Vermont Ave. N.W, Washington, D.C. 20420.

HOOPER, DR. JACK FREDERICK, b. Berkeley, Calif, Dec. 2, 36; m. 58; c. 3. RANGE MANAGEMENT. B.S, California, Berkeley, 60, M.S, 62, Ph.D. (agr. econ), 67. Prod. mgr, B&K Enterprises Inc, Calif, 59-60; res. asst, California, Berkeley, 60-66; ASST. PROF. RANGE MGT, UTAH STATE, 66- Soc. Range Mgt; Soc. Am. Foresters. Forestry; natural resource economics; land appraisal. Publ: Economic importance of salt desert shrub, Proc. Salt Desert Shrub Symp, Bur. Land Mgt, Dept. Interior, 66; Potential for increases in grazing fees, 9/67 & Planning, programming, budgeting system, 5/68, J. Range Mgt. Address: Dept. of Range Management, Utah State University, Logan Utah 84321.

HOOPER, PROF. JOHN W(ILLIAM), b. Laona, Wis, Nov. 6, 26; m. 59; c. 1. ECONOMICS, STATISTICS. A.B, Stanford, 50, Ph.D, 61; Fulbright scholar & fel, Netherlands Col. Econ, 57-58; Washington (Seattle), 50-51; California, 51-52. Instr. econ, Stanford, 55-56; consult, Rand Corp, 57-58, econ. analyst, 58-59; instr. ECON, Yale, 59-60, asst. prof, 60-62; assoc. prof, 62-66, asst. dir. Cowles Found, 61-66; PROF, CALIFORNIA, SAN DIEGO, 66-, CHMN. DEPT, 67- Soc. Sci. Res. Coun. sr. fel, 64-65; Yale sr. faculty fel, 64-65. U.S.N, 44-46. Econ. Asn; Statist. Asn; Economet. Soc. Interrelationships between multivariate statistical analysis and econometric models. Publ: Error of forecast for multivariate regression models, Econometrica; Sampling variance of correlation coefficients under assumptions of fixed and mixed variates, Biometrika; Partial trace correlation theory, Econometrica 4/62. Address: Dept. of Economics, University of California at San Diego, P.O. Box 109, La Jolla, Calif. 92037.

HOOPES, DR. PAUL ROGER, b. St. Anthony, Idaho, Aug. 5, 37; m. 63. POLITICAL SCIENCE. B.A, Brigham Young, 61; Utah, 62-63; M.S, Ohio, 64; M.A, Oklahoma, 66, Ph.D.(polit. sci), 67. ASST. PROF. govt, West Texas State, 67-68; POLIT. SCI, BRIGHAM YOUNG, 68- Polit. Sci. Asn. Social and political change in Latin America; development of sociological schema for political analysis and elaboration of the mentality and behavior of political forces. Publ: Content analysis of news in three Argentine dailies, fall 66 & co-auth, Rosario's dailies reflect the neutralism of the mass media in Argentina's continuing political crisis, spring 68, Journalism Quart. Address: Dept. of Political Science, Brigham Young University, Provo, Utah 84601.

HOOPS, DR. RICHARD A, b. Ft. Wayne, Ind, Mar. 3, 33; m. 57; c. 4. SPEECH PATHOLOGY, AUDIOLOGY. B.A, Oberlin Col, 54; M.S, Illinois, 56, Am. Speech & Hearing Found. fel. & Ph.D.(audiol), 61. Dir. outpatient clin, Ball State, 56-63; audiol. prog, ENT dept, Univ. Wisconsin Hosps, 63-64; ASSOC. PROF. SPEC. ED. & SPEECH & DIR. SPEECH & HEARING CLIN, BALL STATE, 64- Speech & Hearing Asn; Coun. Except. Children; Alexander Graham Bell Asn. for Deaf. Publ: Speech science, C.C. Thomas, 60; co-auth, Certain factors affecting a study of bone conduction thresholds, Laryngoscope, 63 & Comparing pure-tone and verbal auditory hearing screening tests of kindergarten children, J. Ind. Speech & Hearing Asn, 67. Address: Speech & Hearing Clinic, Ball State University, Muncie, Ind. 47306.

HOOS, DR. IDA R, b. Skowhegan, Maine, Oct. 9, 12; m. 42; c. 2. SOCIOLOGY. A.B, Radcliffe Col, 33; Ph.D.(sociol), California, Berkeley, 59. Founder & dir. voc. serv, Assoc. Philanthropies, Boston, 38-42; RES. SOCIOLOGIST, inst. indust. rels, CALIFORNIA, BERKELEY, 62-64, SPACE SCI. LAB, 65- Consult, U.S. Civil Serv. Cmn, 63-; spec. consult, Dept. Health, Ed. & Welfare, 64-65. Sociol. Asn. Social impacts and aspects of automation and technological change; application of systems analysis and other related quantitative techniques to social problems. Publ: Automation in the office, Pub. Affairs, 61; Retraining the work force: analysis of current experience, Univ. California, 67; When the computer takes over the office, Harvard Bus. Rev, summer 60. Address: 868 Arlington Ave, Berkeley, Calif. 94707.

HOOS, PROF. SIDNEY (SAMUELS), b. Buffalo, N.Y, May 20, 11; m. 42; c. 2. AGRICULTURAL ECONOMICS, MARKETING. A.B, Michigan, 34, A.M, 35; fel, Stanford, 36-38, Ph.D.(econ), 39. Instr. agr. econ, California, Berkeley, 38-41; sr. economist, Commodity Credit Corp, Wash, D.C, 41-42; chief economist, dep. chief requirements br, Off. Qm. Gen, U.S. War Dept, 42-45; assoc. prof. AGR. ECON, CALIFORNIA, BERKELEY, 46-50, PROF, 50-, ECON. & BUS. ADMIN, 52-, ECONOMIST, EXP. STA, GIANNINI FOUND. AGR. ECON, 50-, assoc. economist, 46-50, dean acad. personnel, 63-67. Agr. Econ. Asn.(v.pres, Farm Econ. Asn, 62-63, award, 66); Econ. Asn; Statist. Asn; Economet. Soc; Inst. Mgt. Sci. Marketing and price analyses; agricultural income and price policy; commodities; economics. Publ: Coauth, Cooperative bargaining in agriculture, Agr. Sci, Univ. California, 66; auth, Advertising and promotion of farm products; Agricultural marketing agreements and orders. Address: Giannini Foundation, University of California, Berkeley, Calif. 94720.

HOOSE, PROF. IDABELLE PETERSON, b. Akron, Ohio; m. 34; c. 2. PSYCHOLOGY. B.S, Kent State, 38, M.A, 39. Temporary instr. PSYCHOL, KENT STATE, 47-50, instr, 50-53, ASST. PROF, 54- Consult, Earlham Col, 59-60. Psychol. Asn; Acad. Polit. & Soc. Sci; N.Y. Acad. Sci. Learning theory; mechanical teaching machine and index card machine; programs for teaching machines in Latin and spelling; class design for courses based on automated learning techniques; psychology and law. Address: Dept. of Psychology, Kent State University, Kent, Ohio 44240.

HOOSON, PROF. DAVID JOHN MAHLER, b. Ruthin, Wales, Apr. 25, 26; m. 50; c. 2. GEOGRAPHY. B.A, Oxford, 48; M.A, 50; Ph.D, London, 55. Asst. GEOG, Glasgow, 54-56; asst. prof, Maryland, 56-60; British Columbia, 60-62, assoc. prof, 62-65; CALIFORNIA, BERKELEY, 65-67, PROF, 67- R.N, 44-46. Asn. Am. Geog; Geog. Soc; Asn. Adv. Slavic Studies. Regional geography of the Soviet Union; development of geographical thought; political geography. Publ: The Soviet Union: people and regions, Wadsworth, 66; Some recent developments in the content and theory of Soviet geography, Ann. Asn. Am. Geog; Distribution of population as the essential geographical expression, Can. Geogr. Address: Dept. of Geography, University of California, Berkeley, Calif. 94720.

HOOVER, PROF. CALVIN B(RYCE), b. Berwick, Ill, Apr. 14, 97. ECONOMICS. A.B, Monmouth Col, 22, D.Litt, 35; Ph.D, Wisconsin, 25; D.Litt, Columbia, 34. Instr, sch. bus, Minnesota, 23-25; asst. prof. ECON, DUKE, 25-27, PROF, 27-, chmn. dept. econ. & bus. admin. & dean grad. sch. arts & sci, 38-48. Soc. Sci. Res. Coun. fel, 29-30; econ. adv, U.S. Dept. Agr, 33-35, mem. consumer's counsel, agr. adjust. admin, 35; econ. adv, Off. Strategic Serv, 41-45; U.S. group, Control Coun. for Germany, 45; Econ. Coop. Admin, 48. Consult, Nat. Resources Cmt, 37-; Am. Cmt. Int. Studies, 39-; Nat. Defense Cmn, 40-42. Exec. secy, President's Drought Relief Cmt. Distinguished fel. Econ. Asn.(v.pres, 40, pres, 53). Economic life of Soviet Russia; international trade and domestic employment. Publ: Economic resources and policies of the South; Economy, liberty and the State; Memoirs of Capitalism, Communism and Nazism, Duke Univ, 66. Address: Dept. of Economics, Duke University, Durham, N.C. 27701.

HOOVER, DR. DALE M(AX), b. Oskaloosa, Iowa, Jan. 24, 31; m. 55; c. 3. ECONOMICS. B.S, Iowa State, 52, M.S, 54; Danforth fel, Chicago, 52-61, A.M, 59, Ph.D.(econ), 61. Agriculturalist, Am. Friends Serv. Cmt, Jordan, 54-56; asst. prof. AGR. ECON, N.C. STATE, 59-64, ASSOC. PROF, 64- Agricultural factor market efficiency; agricultural production and policy; technological change and income distribution. Publ: The measurement and importance of real capital gains in United States agriculture, 1940 through 1959, 11/62 & co-auth, Income effects of innovation: the case of labor in agriculture, 5/66, J. Farm Econ. Address: Dept. of Economics, North Carolina State University, Box 5368, Raleigh, N.C. 27607.

HOOVER, DAVID B(EALL), b. Baltimore, Md, Sept. 22, 26; m. 57; c. 1. BIOMETRICS, PUBLIC HEALTH. B.S.F, Michigan, 51; M.P.H, Harvard, 57. Personnel analyst, Md. Dept. Ment. Hyg, 51-53, chief statistician, 53-57; health adminstr, United Community Serv, Mass, 57-58; statistician, Nat. Inst. Neurol. Diseases & Blindness, U.S. PUB. HEALTH SERV, 58-63, Bur. State Serv, 63-65, manpower resources prog, 65-67, CHIEF MANPOWER RESOURCES BR, BUR. HEALTH MANPOWER, 67- U.S.A, 43-47. Pub. Health Asn; Biomet. Soc. Health manpower demand and utilization; clinical research design in obstetrics, pediatrics, child growth, and development. Address: U.S. Public Health Services, Room 806, BCT 1, 800 N. Quincy St, Arlington, Va. 22203.

HOOVER, DR. DWIGHT W, Am. Intellectual Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOOVER, PROF. EDGAR M(ALONE), b. Boise, Idaho, Feb. 22, 07. ECONOMICS. A.B, Harvard, 28, Ph.D, 32. Instr. & tutor, Harvard, 33-36; asst. prof. econ, Michigan, 36-40, assoc. prof, 40-46, prof, 46-47; economist, Nat. Resources Planning Bd, 40-42; Off. Price Admin, 42; Off. Strategic Servs, 42-46, mem. staff, coun. econ. advs, 47-52; Cent. Intel. Agency, 52-54; off. pop. res, Princeton, 55-56; vis. prof. ECON, Harvard, 57-59; PROF, PITTSBURGH, 59- Econ. Asn; Pop. Asn; Regional Sci. Asn. Economic development; population. Publ: Location of economic activity; Population and economic growth in low-income countries; Anatomy of a metropolis. Address: 4377 Schenley Farms Terrace, Pittsburgh, Pa. 15213.

HOOVER, DR. JOHN P, b. Burlingame, Calif, Nov. 7, 10; m. 42; c. 4. INTERNATIONAL DEVELOPMENT & ECONOMICS. B.A, Stanford, 31, M.A, 32; fel, Yale, 33-34; Havana, 38-40; adv. mgt. prog, Harvard, 58; Ph.D. (hist), American Univ, 67. Tariffs expert, U.S. Dept. Commerce, 34-36, for. commerce officer, 36-39, for. serv. officer, 39-62; PROGS. OFFICER ECON. & SOC. DEVELOP, ORGN. AM. STATES, 62- Adj. assoc. prof, Catholic Univ, 64-; prof. lectr, American Univ, 67- Consult, Int. Develop. Serv. Corp, 66. Hist. Asn; Polit. Sci. Asn. Latin-American history; history and development of the Caribbean area, including, Lesser Antilles. Address: 6622 Braeburn Pkwy, Bethesda, Md. 20034.

HOOVER, DR. KEITH KINDELL, b. Iowa City, Iowa, July 31, 25; m. 52. PSYCHOLOGY. B.A, Manchester Col, 47; Hamburg, 48; Zurich, 49; M.A, Northwestern, 50, Ph.D, 55; B.D, Bethany Biblical Sem, 53. Instr. psychol, Lake Forest Col, 52; Wright Jr. Col, 52-56; trainee clin. psychol, Vet. Admin, 56-58; staff psychologist, Vet. Admin. Hosp, Downey, Ill, 58-60, coordinator motivation unit, 61-65; dir. Chicago affiliate, Am. Found. Relig. & Psychiat, 65-66; ASSOC. PROF. PSYCHOL. & DIR. COUNSELING SERV. GEORGE WILLIAMS COL, 66- Consult, Elgin State Hosp, Ill, 67- Psychol. Asn. Clinical psychology; social psychiatry. Address: Counseling & Human Relations Services, George Williams College, 555 31st St, Downers Grove, Ill. 60655.

HOOVER, PROF. LEO M(ICHAEL), Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 67.

HOOVER, PROF. ROBERT CAPPS, b. Canton, Ohio, Apr. 28, 20; m. 42; c. 2. URBAN PLANNING. A.B, Allegheny Col, 41; Pennsylvania, 41-42, 46-47; M.R.P, Cornell, 48, Ph.D, 51. Asst, Phila. City Planning Cmn, Pa, 46-47; Greater Ithaca Fact Finding Cmn, N.Y, 48-50; planning asst, Broome County, N.Y, 50, planning dir, 50-53; Morris County, N.J, 54-56; planning officer, City of Newark, 56-58; prof. urban planning & chmn. dept, Wayne State, 58-62; PROF. COMMUNITY PLANNING & HEAD GRAD. DEPT. COMMUNITY PLANNING, CINCINNATI, 62- Lectr, Cornell, 50-54; N.Y. Univ. & Rutgers, 56-58. Regional Sci. Asn; Inst. Planners; Soc. Public Admin. Theory and philosophy of urban development; forward programming of public services; implementation of urban development; planning for urban church development. Publ: Co-auth, Church and city planning; On master plans and constitutions & View of ethics and planning, J. Am. Inst. Planners. Address: Graduate School, University of Cincinnati, Cincinnati, Ohio 45221.

HOPE, PROF. A(SHLEY), GUY, b. Norfolk, Va, Sept. 8, 14; m. 49; c. 2. SOCIAL SCIENCE, INTERNATIONAL AFFAIRS. LL.B, Virginia, 36; Oxford, 36; Columbia, 36-37; Princeton, 44-45; Stanford, 45; Nat. War Col, 56; A.M, George Washington, 64; D.S.Sc, Syracuse, 67. Attorney, Richmond, Va, 37-39; from attorney to clerk, Spec. Cong. Cmt. Invest, Nat. Labor Rels. Bd, 39-40; attorney, D.C. Unemploy. Compensation Bd, 40-41; asst. dir. securities div, State Corp. Cmn, Va, 41; for. serv. officer, U.S. Dept. State, Shanghai, Dairen, Brussels & Tel Aviv, 46-49, staff officer Chinese affairs, 50-55, consul, Istanbul, 56-58, officer-in-charge Turkish affairs, 58-60, dep. dir. Off. Near East. & S.Asian Regional Affairs, 60-61, dir, 61-62, dep. chief mission, Am. Embassy, Abidjan, Ivory Coast, 62-63; dir. multilateral policy planning staff, bur. ed. & cultural affairs, 63-64; acting dir. S.Asia Prog, Maxwell Sch, Syracuse, 64-65, lectr. polit. sci, 65-67; PROF. GOVT, WESTERN KENTUCKY, 67- Vis. prof. & consult. For. Serv. Inst, 66-67. U.S.N, 41-45, Res, 45-60, Comdr. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. United States foreign policy; international relations; South Asia; Far East politics. Publ: American and Swaraj: the U.S. role in Indian independence, 1940-1947, Pub. Affairs, 68. Address: Dept. of Government, Western Kentucky University, Bowling Green, Ky. 42101.

HOPE, JOHN, II, b. Atlanta, Ga, Dec. 25, 09; m. 33; c. 3. ECONOMICS. A.B, Morehouse Col, 30; Soc. Sci. Res. Coun. fel, Brown, 30-32, A.M, 32; Gen. Ed. Bd. fel, 38-39; Rosenwald fel, 40-42. Instr. econ, Morehouse Col, 32-33; chmn. dept. econ, Spelman Col, 33-45; lectr, Atlanta & mgr. book shop, 33-45, dir. purchasing dept, 34-45; dir. indust. rels, race rels. dept, Fisk, 45-61; asst. exec. dir, President's Cmt. Equal. Employ. Opportunity, 61-65; regional dir, off. equal ed. opportunities, off. ed, DEPT. HEALTH, ED. & WELFARE, 65-67, DIR. PROG. PLANNING & DEVELOP. DIV, OFF. CIVIL RIGHTS, OFF. SECY, 67- Fair practices exam, President's Cmt. Fair Employ. Practice, 42-45. Consult, 46- Econ. Asn; Soc. Appl. Anthrop. Intergroup relations, especially in industry, labor organizations and consumer economics, especially levels and standards of living. Publ: Three southern plants of International Harvester Company; Equality of opportunity, a union approach to fair employment; School integration in New Jersey, Schs. in Trans. Address: 360 N St. S.W, Washington, D.C. 20024.

HOPF, DR. THEODORE, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

HOPKIN, DR. JOHN A(LFRED), b. Fairview, Wyo, Dec. 23, 18; m. 48; c. 5. AGRICULTURAL ECONOMICS. B.S, Wyoming, 42, M.S, 49; fel, Iowa State, 50-51, 53-54, Ph.D, 54; Dartmouth Col, 65. Instr. agr. econ, Wyoming, 46-49, asst. prof, 49-50, 51-53; agr. economist, Bank of Am, 55-59, chief agr. & commodity res, econ. dept, 59-61, agr. rep. & economist, exec. dept, 61-64, v.pres. agr-bus, 64-67; PROF. AGR. FINANCE, ILLINOIS, URBANA, 67- Consult, Argentine Govt, 60. U.S.A, 42-46, Capt. Agr. Econ. Asn. Agricultural finance; farm and ranch management. Publ: Some economic aspects of forage integration on irrigated farms, Univ. Wyoming Agr. Exp. Sta. Bull; Economies of size in the cattle feeding industry of California, J. Farm Econ; Financing modern commercial agriculture, hearings of Nat. Cmn. Food & Fiber. Address: 305 Mumford Hall, University of Illinois, Urbana, Ill. 61801.

HOPKINS, DR. BILLY LEE, b. Paducah, Ky, Dec. 4, 35; m. 57; c. 2. PSYCHOLOGY. A.B, Emory, 57; U.S. Pub. Health Serv. fel, Indiana, 59-61, Ph.D.(psychol), 62. Intern PSYCHOL, Larue D. Carter Mem. Hosp, 61-62; ASST. PROF, Washington, 62-64; Fla. State, 64-66; WESTERN MICHIGAN, 66-; PSYCHOLOGIST, BEHAV. MODIFICATION & RES. CENTER, KALAMAZOO STATE HOSP, 66- Psychol. Asn. Experimental analysis of behavior; learning; mathematical models; memory; behavior modification. Address: Dept. of Psychology, Western Michigan University, Kalamazoo, Mich. 49001.

HOPKINS, DR. CARL E(DWARD), b. Seattle, Wash, Aug. 23, 12; m. 40. BIOSTATISTICS. A.B, Dartmouth Col, 33; A.M, Harvard, 35, Ph.D.(social rel), 48; M.P.H, Hopkins, 57. Statistician, State Tuberc. Asn, Ore, 40-42; chief statistician, Kaiser Co, Inc, 42-46; econ. adv, Chinese Bd. Trustees Rehab. Affairs, UNRRA, 46-49; assoc. prof. pub. health & prev. med, med. sch, Oregon, 49-60; spec. consult. air pollution res, Calif. Dept. Pub. Health, 60-61; assoc. prof. PUB. HEALTH, sch. med, Southern California, 61-64; PROF, CALIFORNIA, LOS ANGELES, 64- Guest prof, sch. pub. health, Teheran, 67-68. Statist. consult, Leahi Tuberc. Hosp, Honolulu, Hawaii; biostatist, WHO, 67-68. AAAS; Sociol. Soc; Biomet. Soc.(West. N.Am. Region, pres, 68); fel. Pub. Health Asn; Statist. Asn. Medical statistics; statistical diagnosis; prognostic studies; clinical trials; health services research and planning. Address: School of Public Health, University of California, Los Angeles, Calif. 90024.

HOPKINS, DR. CHARLES OWEN, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HOPKINS, PROF. FRANCIS W(ASHBURN), Econ, see 10th ed, Soc. & Behav. Vols.

HOPKINS, DR. JACK W(ALKER), b. Fitzgerald, Ga, Feb. 16, 30; m. 56; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, North Carolina, Chapel Hill, 51; M.A, Emory, 62; Ph.D.(polit. sci), Florida, 66. Res. consult, Inst. Pub. Admin. N.Y, Peru, 64-65; ASST. PROF. POLIT. SCI, Ga. Inst. Tech, 65-66; Ga. State Col, 66-67; EMORY, 67- Fulbright lectr, Cuyo, 68. U.S.N, 52-61, Lt. Polit. Sci. Asn; Soc. Pub. Admin. Comparative government and politics, especially Latin American; public administration, especially developmental administration and bureaucracy. Publ: The government executive of modern Peru, Univ. Florida, 67; Socio-backgrounds of Peruvian government executives, Int. Rev. Admin. Sci, 68. Address: Dept. of Political Science, Emory University, Atlanta, Ga. 30322.

HOPKINS, DR. KENNETH D(EAN), b. Clovis, N.Mex, Sept. 6, 34; m. 55. EDUCATIONAL RESEARCH. A.B, Pasadena Col, 56; M.S, Southern California, 57, Ph.D.(psychomet), 61. Voc. counsr, Vet. Admin, 57; psychologist, Hudson Sch. Dist, 57-59; asst. prof. ED. PSYCHOL, Southern California, 59-63, ASSOC. PROF, 63-65; COLORADO, 65-, DIR. LAB. ED. RES, 66- Lectr, Southern California, 58-59; summer res. fel, Univ. Wisconsin, 65. Res. consult, Anaheim Sch. Dist, 60-; consult, Childrens Hosp. Los Angeles. Biomet. Soc; Nat. Coun. Measurement in Ed.(test rev. ed, J. Ed. Measurement, 65-); Ed. Res. Asn; Psychol. Asn; Psychomet. Soc. Validity and reliability of psychological tests; anxiety and test performance; experimental design and statistics. Address: Lab. of Educational Research, University of Colorado, Boulder, Colo. 80302.

HOPKINS, DR. NICHOLAS ARTHUR, Anthrop, Ling, see 5th ed, Dir. Am. Scholars, Vol III, For. Lang, Ling. & Philol.

HOPKINS, DR. PRYNCE, b. Oakland, Calif, Mar. 5, 85; m. 20, 33; c. 3. PSYCHOLOGY. Ph.B, Yale, 06; A.M, Columbia, 10; Ph.D.(psychol), London, 27. Owner & supvr, Boy Land Exp. Sch, Calif, 12-18; Chateau de Bures Sch. for Boys, France, 25-37; hon. lectr. psychol, univ. col, London, 28-40; lectr, sch. grad. studies, Claremont Cols, 41-46; writer & lectr, 46-67; RETIRED. Fel. Am. Psychol. Asn; fel. Brit. Psychol. Soc; fel. Royal Geog. Soc; assoc. Brit. Psychoanal. Soc. Causes and control of violence. Publ: Psychology of social movements, Allers & Unwin, 38; Orientation, socialization and individuations, Taplinger, 63; The social psychology of religious experience, Paine-Whitman, 62. Address: 1920 Garden St, Santa Barbara, Calif. 99101.

HOPKINS, DR. RAYMOND F, b. Cleveland, Ohio, Feb. 15, 39; m. 62. POLITICAL SCIENCE. B.A, Ohio Wesleyan, 60; M.A, Ohio State, 63; M.A, Yale, 65, For. Area fel, 65-67, Ph.D.(polit. sci), 68. INSTR. POLIT. SCI, SWARTHMORE COL, 67- Polit. Sci. Asn; African Studies Asn. Political institutionalization as measured by role consensus; measures of political development; attitude formation and political culture. Publ: Game theory and generalization in ethics, Rev. Polit, 10/65; Christianity and sociopolitical change in sub-Saharan Africa, Soc. Forces, 6/66; Aggregate data and the study of political development, J. Polit, Vol. 30, 69. Address: Dept. of Political Science, Swarthmore College, Swarthmore, Pa. 19081.

HOPKINS, DR. TERENCE K(ILBOURNE), b. New Rochelle, N.Y, Nov. 20, 28. SOCIOLOGY. A.B, N.Y. Univ, 52; Soc. Sci. Res. Coun. fel, Columbia, 57-58, Ph.D.(sociol), 59. Asst. SOCIOL, BUR. APPL. SOC. RES, COLUMBIA, 52-58; RES. ASSOC, 58-, ASSOC. PROF, UNIV, 64-, instr, 58-59, asst. prof, 59-64. Fulbright & Soc. Sci. Res. Coun-Am. Coun. Learned Socs. res. fels, 61-62; assoc, East African Inst. Soc. Res, Makerere Col, Uganda, 61-62. Consult, Inst. Pub. Affairs, 60-61; Nat. Conf. Cmnr. Uniform State Laws, 64-65; UN Econ. Cmn. for Africa, 66- Econ. Hist. Asn; African Studies Asn; Sociol. Asn. Sociological theory; sociology of economies and economic development; comparative study of national societies; data archives. Publ: Exercise of influence in small groups, Bedminster Press, 64; co-auth, Comparative study of national societies, Soc. Sci. Info, 67; Sociology and the substantive economy, In: Trade and market in the early empires. Address: Dept. of Sociology, 320M Fayerweather, Columbia University, New York, N.Y. 10027.

HOPKINS, PROF. WARING C(ARRINGTON), b. Philadelphia, Pa, Oct. 22, 20; m. 49; c. 2. POLITICAL SCIENCE. A.B, Duke, 45; Dr, Paris, 49. Asst, Am. Coun. Ed, 45-46; asst. prof. hist. & polit. sci, Berea Col, 49-52, assoc. prof, 55-62, PROF, 62-63; INT. AFFAIRS, GEORGE WASHINGTON, 63-; Fulbright lectr, Col. Arts & Sci, Baghdad, Iraq, 58; lectr. European div, Maryland, 60-62. Diplomacy; propaganda; civilian military relationships; Middle East diplomacy. Address: Dept. of International Affairs, George Washington University, Naval War College Center, Newport, R.I. 02840.

HOPKINS, PROF. WILLIAM E(DWARD), b. Albemarle Co, Va, Oct. 16, 14; m. 48; c. 3. SOCIOLOGY. B.S, Virginia, 35; M.S, Va. Polytech, 39; Ph.D. (sociol), La. State, 51. Teacher, high schs, Va, 40-42, 46-47, Md, 47-48;

assoc. prof. & head dept. sociol. & econ, Wesleyan Col, 51-53; SOCIOL, Ga. State Col, 53-62; PROF. & CHMN. DEPT, OLD DOM. COL, 62- U.S.N, 42-46. Sociol. Asn; Rural Sociol. Soc. Demography; rural and urban sociology. Address: Dept. of Sociology, Old Dominion College, Norfolk, Va. 23508.

HOPKINS, PROF. WILLIAM S(TEPHEN), b. Portland, Ore, May 24, 02. ECONOMICS. B.S, Oregon, 25, A.M, 28; California, 28-29; Ph.D, Stanford, 32. Asst. econ, Oregon, 26-28; instr, Stanford, 30-35; asst. prof, Washington (Seattle), 35-37; Stanford, 37-40, assoc. prof, 40-45, prof, 45-46; PROF. ECON, UNIV. & BUR. LABOR ECON, WASHINGTON (SEATTLE), 46- Mem. cmt, Soc. Sci. Res. Coun, 39-40; pub. mem. War Labor Bd, Calif, 43-45. Econ. Asn; fel. Geront. Soc; Soc. Economet. Appraisers (v.pres, 67). Labor market; seasonal unemployment; collective bargaining; economic gerontology. Publ: Labor in the American economy; Aging in State of Washington. Address: Dept. of Economics, University of Washington, Seattle, Wash. 98105.

HOPKIRK, PROF. JOHN W(ILLIAM), b. New York, N.Y, May 22, 26; m. 57; c. 2. POLITICAL SCIENCE. B.A, Swarthmore Col, 50; M.A, Princeton, 52, Ph.D, 58. Res. assoc. state & local govt, Drew, 52-53; instr. polit. sci, Harpur Col, State Univ. N.Y, 54-56; chief, training sect, off. personnel admin, State Health Dept, N.Y, 56-60; asst. prof. POLIT. SCI, PMC Cols, 60-62, assoc. prof, 62-67, PROF, 67-, CHMN, LIB. ARTS DIV, 67-, acting chmn, 66-67. Exec. secy, Chester Citizens Coun. Urban Renewal, 61-64; lectr, intergroup rels. inst, PMC Cols, summer 65, assoc. dir, joint center urban studies, 66, dir, Nat. Defense Ed. Act inst. metrop. probs, summer 67. U.S.A, 44-46. Polit. Sci. Asn; Soc. Pub. Admin. Urban government; public law; public administration. Publ: Influence of legal realism on William O. Douglas, In: Essays on the American Constitution, Prentice-Hall, 64; William O. Douglas—his work in policing bankruptcy proceedings, Vanderbilt Law Rev, 65. Address: 511 Moylan Ave, Moylan, Pa. 19065.

HOPKIRK, DR. PRISCILLA M(ARGUERITE) GREELEY, b. Schenectady, N.Y, Dec. 7, 22; m. 57; c. 2. GOVERNMENT. A.B, Radcliffe Col, 45, A.M, 47, Ph.D, 52. Instr. polit. sci, Col. Wooster, 50-51; Wilson Col, 52-54; asst. prof. govt, Skidmore Col, 54-57; sr. planning technician, State Dept. Commerce, N.Y, 57-59; lectr. POLIT. SCI, Rutgers, 61-67; ASST. PROF, VILLANOVA, 67- Polit. Sci. Asn; Soc. Pub. Admin. State and local government; public administration; political theory. Publ: Co-auth, Federal and state grants-in-aid, annontated laws, with special reference to Massachusetts, as of January 1, 1947. Address: 511 Moylan Ave, Moylan, Pa. 19065.

HOPP, DR. RALPH HARVEY, Chem. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HOPPER, DR. COLUMBUS BURWELL, b. Forest City, N.C, Dec. 22, 31; m. 54; c. 2. SOCIOLOGY. B.A, Furman, 54; M.A, North Carolina, 58; Ph.D. (sociol. & criminol), Fla. State, 64. Asst. prof. SOCIOL, Mississippi, 57-64; ASSOC. PROF, Southeast Mo. State Col, 64-65; MISSISSIPPI, 65- Dept. Health, Ed. & Welfare res. grant, 67-68. U.S.A, 54. Sociol. Asn. Penology; conjugal visiting in prison; delinquent gangs; the role of the pharmacist in the pharmacy; therapeutics committees in hospitals. Publ: The conjugal visit at the Mississippi state penitentiary, J. Criminal Law, Criminol. & Police Sci, 62; Conjugal visiting at Parchman, the Mississippi state penitentiary, Fed. Probtn, 65; Conjugal visiting: a controversial practice in Mississippi, Criminal Law Bull, 67. Address: Dept. of Sociology, University of Mississippi, University, Miss. 38677.

HOPPER, PROF. REX D, Sociol, see 10th ed, Soc. & Behav. Vols, deceased 66.

HOPPER, DR. WILLIAM DAVID, Econ, Anthrop, see 10th ed, Soc. & Behav. Vols.

HOPPOCK, PROF. ROBERT, b. Lambertville, N.J, Dec. 24, 01; m. 28; c. 1. PSYCHOLOGY. B.S, Wesleyan, 23; M.A, Columbia, 32, Ph.D.(ed. psychol), 35. Asst. dir, Nat. Occup. Conf, 33-39; PROF. ED, N.Y. UNIV, 39- Lectr, Columbia, 30; Fordham, 38; Iowa, 38; Wisconsin, 50. Consult, 52- Ed, Occup. Abstracts & Occup. Index, 36-50. Mem. cmt. prfnl. develop, Col. Placement Coun, 66, 67-68. Award, N.Y. Personnel & Guid. Asn, 66; eminent career award, Nat. Voc. Guid. Asn, 67. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Personnel & Guid. Asn. Use of occupational information in vocational counseling and in the teaching of occupations. Publ: Job satisfaction; Group guidance; Occupational information. Address: School of Education, New York University, New York, N.Y. 10003.

HOPSON, DR. ANNA LEE BOSWELL, b. Richmond, Va, June 22, 26; div. SOCIOLOGY. A.B, Vassar, 45; Ph.D.(sociol), Harvard, 52. Staff asst. personnel, Am. Tel. & Tel. Co, 52-53; res. assoc. psychol, Res. Center Human Rels, N.Y. Univ, 53-55, sociol, 64-65; proj. dir. advert, Young & Rubicam Inc, New York, 55-61; res. assoc, Doyle Dane Bernbach, Inc, New York, 63-64; lectr. SOCIOL, Rutgers, 65-66; RES. ASSOC, BUR. APPL. SOC. RES, COLUMBIA, 66- Lectr, Columbia, 55-62, 65-66, mem. multidisciplinary teaching team, Col. Physicians & Surgeons, 66-67, consult, Sch. Bus, 66; creative guid, J. Walter Thompson Co, 67- Sociol. Asn; Psychol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Communication; public opinion; research methods; sociology of art and knowledge. Publ: An evaluation of centers for education in democracy, 66 & co-auth, A study of teachers in the public schools of Washington, D.C, 67, Bur. Appl. Soc. Res, Columbia; co-auth, The effects of situational factors on interaction, In: Readings in the social psychology of education, 63. Address: 60 E. 96th St, New York, N.Y. 10028.

HOPWOOD, DEAN KATHRYN L(OUISE), b. Lenox, Ohio, Aug. 25, 08. PSYCHOLOGY. A.B, Oberlin Col, 30, M.A, 40; Ph.D, Ohio State, 53. Teacher, high sch, Ohio, 30-38, teacher & girls' counsr, 38-43; asst. dean of women, Ohio State, 43-48, assoc, 49-55, instr, psychol, 44-54, asst. prof, 54-55; PROF. psychol, HUNTER COL, 55-68, COUNSELING & STUDENT DEVELOP, 68-, DEAN OF STUDENTS, 55- Bd. trustees, Oberlin Col, 55-67. Mem. cmn. col. student, Am. Coun. Ed, 58-61. Col. Personnel Asn.(pres, 60-61); Psychol. Asn. Student counseling; student life and culture. Publ: Expectations of university freshman women, Personnel & Guid. J; Who's for the Ark? J. Col. Student Personnel; Re-evaluation of programs of student services in light of social and academic change, Asn. Higher Ed. Address: Dept. of Counseling & Student Development, Hunter College, 695 Park Ave, New York, N.Y. 10021.

HORAN, DR. MICHAEL JAMES, b. Trenton, N.J, Oct. 25, 38; m. 67; c. 1. POLITICAL SCIENCE. B.S. & univ. fel, Georgetown, 60, Relm Found. fel, 63, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, WYOMING, 67- U.S.A.R, 60-67, Capt. Polit. Sci. Asn. Nature and causes of judicial behavior in certain areas of public law, particularly the state action concept of the Fourteenth Amendment. Address: Apt. 6, 1609 Baker St, Laramie, Wyo. 82070.

HORECKY, DR. PAUL LOUIS, b. Trutnov, Czech, Sept. 8, 13; U.S. citizen; m. 49; c. 1. POLITICAL SCIENCE, LAW. LL.D, Univ. Prague, 36; Charles Smith scholar. & M.A, Harvard, 51. Lawyer, 36-37; trial attorney, U.S. Off. Chief of Counsel, Nuremberg, 47-49; researcher, Russian Res. Center, Harvard, 49-51; SLAVIC & E.EUROPEAN SPECIALIST & ASST. CHIEF, SLAVIC & CENT. EUROPEAN DIV, LIBRARY CONG, 51- Consult, microfilming progs, 63- Mem. Am. rep, First Int. Cong. Balkan Studies, Bulgaria, 66; field reader, U.S. Off. Ed, 66- Brit. Army, 44-47, Capt. Polit. Sci. Asn; Library Asn; Asn. Adv. Slavic Studies. International law aspects of Nuremberg war crimes trials; comparative governments and politics and cultural developments in the Union of Soviet Socialist Republics and Eastern Europe; Russian and East European bibliography. Publ: Libraries and bibliographic centers in the Soviet Union, Indiana Univ, 59; Basic Russian publications, 62 & Russia and the Soviet Union, 65, Univ. Chicago. Address: 2207 Paul Spring Rd, Alexandria, Va. 22307.

HORELICK, ARNOLD L(AWRENCE), b. New York, N.Y, Mar. 24, 28; m. 51; c. 2. POLITICAL ANALYSIS. B.A, Rutgers, 48; fel, Russian Res. Center & M.A, Harvard, 51. Soviet affairs analyst, U.S. Govt, 51-52, 54-58; MEM. STAFF SOVIET STUDIES, SOC. SCI. DEPT, RAND CORP, 58- Lectr, humanities div, Calif. Inst. Tech, 67; summer faculty, dept. govt, Cornell, 65. Consult, security studies proj, California, Los Angeles, 66-67. U.S.A, 52-54. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Soviet foreign policy and military affairs; internal politics; international relations. Publ: Co-auth, Outer space and world politics, Praeger, 63; La Guerre Nucleaire, Ed. Stock, Paris, 65; Strategic power and Soviet foreign policy, Univ. Chicago, 66. Address: Rand Corp, 1700 Main St, Santa Monica, Calif. 90406.

HORGAN, DR. ROBERT J(OSEPH), b. Elgin, Ill, Feb. 6, 24; m. 50; c. 3. POLITICAL SCIENCE, ECONOMICS. B.A, North Dakota, 49, M.A, 50; John O'Hara fel, Notre Dame, 51-52, Ph.D, 59. Instr. polit. sci, Clarke Col, 54-57, asst. prof, 57-67; DIR. URBAN CENTER, INST. BUS. & COMMUNITY DEVELOP, RICHMOND, 67- Councilman, City Dubuque, Iowa, 62-66. U.S.A.A.F, 43-46. Polit. Sci. Asn. Local government. Address: Institute for Business & Community Development, University of Richmond, 601 N. Lombardy, Richmond, Va. 23220.

HORLACHER, PROF. JOHN PERRY, b. Philadelphia, Pa, July 5, 01; m. 24; c. 1. POLITICAL SCIENCE. A.B, Ashland Col, 22; A.M, Pennsylvania, 28, Ph.D, 35. From asst. prof. to PROF. POLIT. SCI, PENNSYLVANIA, 36-, CHMN. DEPT, 55- Exec. dir. wage stabilization div, Phila. Regional War Labor Bd, 44-45; chmn, Nat. Wage Stabilization Bd, Phila. Region, 46; Phila. Regional Wage Stabilization Bd, 51-53. Polit. Sci. Asn; Indust. Rels. Res. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Acad. Arbit.(v.pres). Labor law; industrial relations; public administration. Publ: Results of workmen's compensation in Pennsylvania; Administrative regulation of private enterprise; Administration of permanent registration in Philadelphia. Address: Dept. of Political Science, Wharton Graduate School, University of Pennsylvania, Philadelphia, Pa. 19104.

HÖRMANN, PROF. BERNHARD L, b. Watertown, Wis, July 5, 07; m. 37; c. 5. SOCIOLOGY. A.B, Hawaii, 27, A.M, 31; Ph.D, Chicago, 49. Instr. Eng. & German, mid. sch, Lingnan, 30-31, col, 31-34; soc. sci, Chicago, 37-39; from instr. to PROF. SOCIOL, HAWAII, 30- Vis. mem. faculty, Chung Chi Col, Hong Kong, 66-67. Sociol. Asn. Transition of folk and peasant societies to industrialized mass society; sociology of religion, language and islands. Publ: Community forces in Hawaii. Address: Dept. of Sociology, University of Hawaii, 2550 Campus Rd, Honolulu, Hawaii 96822.

HORN, DR. CHARLES L(EONARD), b. Milwaukee, Wis, Feb. 12, 36; m. 63; c. 1. SOCIOLOGY. B.S, Florida, 57, M.A, 62; Ph.D.(sociol), Fla. State, 65. ASST. PROF. SOCIOL, Wis. State, 65-67; WISCONSIN, MILWAUKEE, 67-, summer fel. soc. geront, 67. Med.Serv.C, U.S.A.R, 58-, Capt. Sociol. Asn. Sociology of health; mental hospitalization-organization and decision making; mental patient careers; retiree self-actualization. Address: Center for the Advanced Study in Organization Science, University of Wisconsin, 3255 N. Maryland Ave, Milwaukee, Wis. 53201.

HORN, DR. DANIEL, b. Rochester, N.Y, May 28, 16; m. 37; c. 5. PSYCHOLOGY. S.B, Northeastern, 38; A.M, Harvard, 42, Ph.D.(psychol), 43. Instr. psychol, Harvard, 43-44; chief pilot error study, Air Force, 46-47; asst. dir. statist. res, Am. Cancer Soc, 47-57, dir. prog. eval, 57-62; asst. chief res. cancer control prog, div. chronic diseases, U.S. PUB. HEALTH SERV, 63-64, chief, spec. proj. sect, cancer control br, 64-65, DIR. NAT. CLEARINGHOUSE SMOKING & HEALTH, NAT. CENTER CHRONIC DISEASE CONTROL, 65- Vis. lectr, Princeton, 49; Yale, 54-56. Fel. AAAS; fel. Pub. Health Asn; fel. Soc. Proj. Tech; Psychol. Asn; Statist. Asn; Pub. Health Cancer Asn.(v.pres, 65, pres, 66-67). Cancer epidemiology; role of motivation in health behavior; experimental methodology in social sciences. Publ: Co-auth, Smoking and death rates—report on forty-four months of follow-up of 187,783 men. I Total mortality. II Death rates by cause, JAMA, 166: 1159-1172: 1294-1308; co-auth, Cigarette smoking among high school students, 11/59 & Some dimensions of a model for smoking behavior change, 12/66 Suppl, Am. J. Pub. Health. Address: 4040 N. Fairfax Dr, Arlington, Va. 22203.

HORN, DR. J. STEPHEN, JR, b. Gilroy, Calif, May 31, 31; m. 54; c. 2. POLITICAL SCIENCE. A.B, Stanford, 53, Ph.D.(polit. sci), 58; M.P.A, Harvard, 55. Am. Polit. Sci. Asn. Congressional fel, 58-59; admin. asst. to Secy. Labor, U.S. Dept. Labor, 59-60; legis. asst. to U.S. Senator Thomas H. Kuchel, 60-66; SR. FEL. GOVT. STUDIES, BROOKINGS INST, 66- Fel, inst. polit, John F. Kennedy Sch. Govt, Harvard, 66-67. Sr. consult, oper. govt. series, Westinghouse Broadcasting Co, 67- U.S.A.R, 54-62. Polit. Sci. Asn. American national government and political parties; national security policy; congress and the presidency. Publ: The cabinet and congress, Columbia, 60. Address: 3207 Foxhall Rd. N.W, Washington, D.C. 20016.

HORN, DR. JOHN L(EONARD), b. St. Joseph, Mo, Sept. 7, 29; m. 54; c. 3. PSYCHOLOGY, PSYCHOMETRICS. B.A, Denver, 56; Fulbright fel, Melbourne, 56-57; Nat. Inst. Ment. Health fel, Illinois, Urbana, 58-61, M.A, 60, Ph.D.(measurement personality), 65. Asst. PSYCHOL, Univ. Melbourne, 56-57; Illinois, 58; asst. prof, DENVER, 61-65, ASSOC. PROF, 65- Vis. lectr, California, Berkeley, 67; summer Off. Ed. fel. & res. assoc, Univ. Wisconsin, 65. U.S.A, 50-52. AAAS; Psychomet. Soc; Soc. Multivariate & Exp. Psychol. Development and use of statistical and psychometric techniques for study of personality; diagnosis of mental illness and maladaptation by use of psychometric devices; development of operations by which to measure human motivations and abilities. Publ: A rationale and test for the number of factors in factor analysis, Psychometrika, 65; On subjectivity in factor analysis, Ed. & Psychol. Measurement, 67; The organization of abilities and the development of intelligence, Psychol. Rev, 68. Address: 196 S. Corona St, Denver, Colo. 80209.

HORN, PROF. PAUL V(ALENTINE), b. Mt. Airy, Md, Mar. 17, 96. INTERNATIONAL TRADE & ECONOMICS. B.S, Maryland, 19; M.S, Cornell, 21; Ph.D, Syracuse, 27. Instr, Cornell, 20-21; from asst. prof. to assoc. prof, Syracuse, 22-25; PROF. INT. TRADE, N.Y. UNIV, 26- For. trade consult, Nat. Indust. Conf. Bd, 39-45; private consult, 46- Mem. for. policy cmt, U.S. Chamber Commerce, 50- Econ. Asn; Arbit. Asn. American business practice; international trade principles and practices; Latin American trade and economics. Address: Dept. of International Trade, New York University, 100 Washington Square, New York, N.Y. 10013.

HORN, PROF. PAUL WALTER, b. Newark, N.J, Feb. 15, 24. PSYCHOLOGY. B.A, Yale, 51; Ford Found. fel. & M.A, Vanderbilt, 58, Ph.D, 61. Res. assoc, southwest. med. sch, Texas, 53-54; asst. prof. psychol, Memphis State, 58-61; asst. prof, Vanderbilt, 61-62; PROF. PSYCHOL. & DIR. PSYCHOL. LAB, INDIANA STATE, 62- Psychol. Asn. Learning theory and motivation; psychosomatic medicine; personality variables. Address: 35 Doe Dr, Terre Haute, Ind. 47802.

HORN, PROF. ROBERT A(NDERSON), b. Greenville, Ohio, Apr. 8, 16. POLITICAL SCIENCE. A.B, Ohio Wesleyan, 37; Soc. Sci. Res. Coun. fel, Princeton, 37-40, A.M, 39, Ph.D, 42; Harvard, 38-39, 40-42. Instr. govt, Harvard, 42, 46-47; asst. prof. POLIT. SCI, Chicago, 47-53; STANFORD, 53-56, assoc. prof, 56-65, PROF, 65- U.S.A, 42-46, 51-52, Lt. Polit. Sci. Asn. Public law; American constitutional law; civil liberties. Publ: Groups and the Constitution. Address: 1575 Castilleja Ave, Palo Alto, Calif. 94306.

HORNADAY, PROF. JOHN A(LBERT), JR, b. Beaufort, N.C, Feb. 7, 23; m. 51; c. 1. PSYCHOLOGY. A.B, Duke, 45, M.A, 47, Ph.D.(psychol), 54. Asst. prof. psychol, North Carolina, Greensboro, 48-52; prof, Shorter Col, 52-55, dir. summer sessions, 52-55; from assoc. prof. to prof. psychol, spec. ed. & chmn. dept, Greensboro Col, 55-63; ed. test dept, Houghton Mifflin Co, 63-66; PROF. MGT. & CHMN. DIV, BABSON INST, 66- Assoc. ed, Ed. & Psychol. Measurement, 58-; assoc. ed. to ed, Personnel Psychol, 58- AAAS; Psychol. Asn; Statist. Asn; Personnel & Guid. Asn; Soc. Adv. Mgt; Int. Asn. Appl. Psychol. Psychological test construction and evaluation, specifically techniques for detecting conscious and unconscious faking in answering objective personality test items. Publ: Method of demonstrating factor rotation, Am. J. Psychol; Interest of foresters, Am. J. Forestry; A study of male occupational interest scales applied to women, Ed. & Psychol. Measurement. Address: Division of Management, Babson Institute of Business Administration, Babson Park, Wellesley, Mass. 02157.

HORNBECK, DR. STANLEY K(UHL), b. Franklin, Mass, May 4, 83; m. 38. POLITICAL SCIENCE. A.B, Denver, 03; Rhodes scholar, Oxford, 04-07, B.A, 07; fel, Wisconsin, 07-09, Ph.D, 11; George Washington, 22-24; LL.D, Beloit Col, 30, Colorado, 32, Utrecht, Netherlands, 47; hon. L.H.D, Denver, 32; hon. D.Litt, Calif. Col. in China, 40. Instr. polit. sci, Chinese Govt. Cols, 09-14; asst. prof, Wisconsin, 14-17, assoc. prof, 17; tech. expert, off. econ. adv, U.S. Dept. State, 21-24, chief div. Far East. affairs, 28-37, adv. polit. rels, 38-44; lectr. hist. Far East, Harvard, 24-28; spec. asst. to U.S. Secy. State, 44; ambassador to Netherlands, 44-47; RETIRED. Lowell lectr, 27; round table leader, Williamstown Inst. Polit, 22; Inst. Pac. Rels, Honolulu, 25, 27; Guggenheim fel, 55. Spec. expert, U.S. Tariff Cmn, 17-20; tech. expert Far East. div, Am. Cmn. to Negotiate Peace, Paris Peace Conf, 18-19; Conf. Limitation Armament & Far East. Probs, 21; tech. adv, Spec. Conf. Chinese Customs Tariff, 25; U.S. Dept. State rep, Cong. Int. Chamber Commerce, Amsterdam, 29; D.C, 30; Nine Power Treaty Conf, Brussels, 37; Dumbarton Oaks Conf, 44; mem, Coun. For. Rels. U.S.A, 17-19, Col. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Soc. Int. Law; Int. Law Asn. Diplomacy and education; politics in the Far East; political economy. Publ: Contemporary politics in the Far East; China today-political; China and United States China policy. Address: Fairfax Hotel, 2100 Massachusetts Ave. N.W, Washington, D.C. 20008.

HORNBERGER, DR. ROBERT H(OWARD), b. Trenton, N.J, Jan. 26, 33; m. 58. CLINICAL PSYCHOLOGY. B.A, Amherst Col, 54; U.S. Pub. Health Serv. fel, Iowa, 54-55, M.A. & Ph.D.(clin. psychol), 57. Intern clin. psychol, med. center, Colorado, 57-58; from instr. to assoc. med. psychol, col. med, Univ. Nebraska & staff psychologist, Nebr. Psychiat. Inst, 58-62; chief psychologist, Drs. Young, Wigton & Aita, 62-65; DIR, EAST. MAINE GUID. CENTER, 65- Instr, col. adult ed, Omaha, 60-61; lectr, grad. col, Maine, 66- Psychol. Asn. Clinical service; psychotherapy; psychodynamics. Publ: Self congruence, by sex and between the sexes, in a normal population & Projective effects of fear and sexual arousal on the rating of pictures, J. Clin. Psychol; Differential reduction of aggressive responses as a function of interpolated activities, Am. Psychol. Address: 23 Ohio St, Bangor, Maine 04401.

HORNE, DR. EDWARD PORTER, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HORNE, DEAN GILBERT R(ICHARD), b. Windsor, Ont, Jan. 3, 08; m. 34; c. 2. BUSINESS ADMINISTRATION, ACCOUNTING. B.A, Western Ontario, 31; A.M, Michigan, 37, Ph.D.(bus. admin), 54. Instr. BUS. ADMIN, Western Ontario, 31-33; prof, Assumption, 33-63; PROF, WINDSOR, 63-, DEAN FACULTY BUS. ADMIN, 64-, head dept, 53-59, dir. sch. bus. admin, 59-64. Am. Econ. Asn; Am. Acct. Asn; Am. Finance Asn; Can. Econ. Asn. Finance. Publ: Receivership and reorganization of the Abitibi Power and Paper Company; John Rae, Univ. West. Ont. Sch. Bus. Admin. Rev; co-auth, Market conditions, Windsor Ontario, Econ. Coun. Can, 64. Address: Faculty of Business Administration, University of Windsor, Windsor, Ont, Can.

HORNE, DR. McDONALD K(ELSO), JR, b. Winona, Miss, Apr. 24, 09; m. 42; c. 2. ECONOMICS. A.B, Mississippi, 30; M.A, North Carolina, 32, Ph.D. (econ), 40. Asst. prof. & dir. pub. rels, Mississippi, 35-37, dir. bur. bus. res, 41-42, prof. econ, 41-42, 47-50, dean sch. commerce & bus. admin, 49-50; dir. econ. res, NAT. COTTON COUN. AM, 39-41, utilization res, 46-47, consult, 47-50, CHIEF ECONOMIST, 50- Dir. res. & info, Unemploy. Compensation Cmn, Miss, 37-39, chmn. adv. cmt, 48-50; cotton specialist, Bd. Econ. Warfare, 41-42; cotton mkt. specialist, cmt. agr, U.S. House Rep, 45-46. Mem. adv. cmt, Secy. Agr. on Econ. Res, 58-63; mgt-labor textile adv. cmt, Inter-agency Cmt, Fed. Govt, 67- U.S.N.R, 42-45, Lt. Comdr. Econ. Asn; Agr. Econ. Asn. Cotton economics; labor economics; private finance. Publ: Cotton price policy in relation to the domestic market, J. Farm Econ; Cotton consumption in the United States, Int. Rev. Cotton & Allied Textile Industs; Cotton, Ann, Am. Acad. Polit. & Soc. Sci. Address: 372 Grandview St, Memphis, Tenn. 38111.

HORNE, DR. ROMAN L(EMUEL), b. Polk Co, N.C, Dec. 14, 01; m. 39; c. 4. ECONOMICS. B.A, Ohio State, 28, A.M, 31, fel, 31-34, Ph.D.(monetary theory), 36. Writer, Am. Coun. Ed, Wash, D.C, 34-35; economist, U.S. Dept. Agr, 35-36; Works Progress Admin, 36-37; Fed. Reserve Bd, 37-40; chief reports ed, Tenn. Valley Authority, 40-42; asst. to secy, War Prod. Bd, 43-44; economist, U.S. Dept. Treasury, 44-46; asst. secy, Int. Monetary Fund, 46-50, dep. secy, 50-52, acting secy, 52-56, secy, 56-66; CONSULT, 66- Econ. Asn. Mechanical cotton harvesting. Publ: Farm business; co-auth, Money. Address: 8737 Old Dominion Dr, McLean, Va. 22101.

HORNE, WILLIAM J(EROME), b. Boston, Mass, Dec. 24, 20; m. 46; c. 4. ECONOMICS, ACCOUNTING. B.S, Boston Col, 51, M.A, 53. Acct. clerk, UNITED SHOE MACH. CORP, 41-46, dept. mgr, 47-56, mkt. res. analyst, 56-58, asst. controller finance, 58-64, dir. corp. systs. & data processing, 64-67, ASST. V.PRES. 68- Lectr, Boston Col, 51-; Northeastern, 56-57; Quincy Jr. Col, 61-62. Consult, Carney Hosp, 51; Joseph P. Kennedy Hosp, 53. Gen. chmn. Int. Data Processing Mgt. Asn. Conf. & Bus. Expos, 67. U.S.A.A.F, 42-46, Sgt. Econ. Asn; Asn. Bus. Econ; Data Processing Mgt. Asn. Microeconomics; theory of the firm; economic implications of antitrust legislation; automation in information processing. Address: 140 Federal St, Room 700, Boston, Mass. 02107.

HORNER, PROF. G(EORGE) R(OLAND), b. Newark, N.J, Feb. 18, 13; m. 42; c. 5. ANTHROPOLOGY. B.S, Wheaton Col, 40; M.A, Columbia, 42; D.Univ, Paris, 50. Instr. anthrop, Wheaton Col, 45-48; res. anthropologist, Presby. Bd. For. Missions, French Cameroon, 50-53; asst. prof. & res. assoc, African Res. & Studies Prog, grad. sch, Boston, 54-61; assoc. prof. anthrop. & African studies, State Univ. N.Y. Col. New Paltz, 61-63; PROF. ANTHROP, EAST. NAZARENE COL, 63- Lectr, univ. col, Northeastern, 63- U.S.A.A.F, 43-45. Fel. African Studies Asn; Folklore Soc; fel. Am. Sci. Affiliation; fel. Anthrop. Asn; Int. African Inst. Social and political problems of French Africa. Publ: The allocation of power and responsibility in Bulu Society: a test of the usefulness of a methodology developed by Marion J. Levy, Jr, Cahiers d'Etudes Africanes, Vol. IV, No. 3; Selected cultural barriers to the modernization of labor, In: The search for identity in French-Speaking Africa, Walker, 65; A Bulu folktale: its content and analysis, J. Am. Folklore, Vol. 79, No. 311. Address: Dept. of Anthropology, Eastern Nazarene College, Quincy, Mass. 01269.

HORNER, PROF. JAMES TRUMAN, b. Hornersville, Mo, July 14, 28; m. 50; c. 3. EDUCATION. B.S, Missouri, 50, M.Ed, 54, Ed.D, 59; Ohio State, 63; Mich. State, 65-66. Instr. voc. ed, North Carolina, 58-59; asst. prof, Nebraska, 59-63, assoc. prof. & chmn. dept, 63-65; vis. prof. admin. & higher ed, Mich. State, 65-66; PROF. AGR. ED. & CHMN. DEPT, NEBRASKA, 66- Co-dir, Adv. Seminar Res. & Voc. Ed, Nebraska, 65; fel, Am. Coun. Ed. Intern Prog. Acad. Admin, 65-66; prin. investr, U.S. Off. Ed. Summer Seminar, 68. Study dir. & consult, Nebr. Legis. Coun. Cmt. Voc. & Tech. Ed, 63-65; res. consult, State Bd. Voc. Ed, Nebr, 63-; consult. pub. affairs cmt. occup. ed, Agr. Exten. Serv, 64-65; Mid-Continent Regional Ed. Lab, 65; voc. ed. consult, Minister Ed, Colombia, S.Am, 67; consult. task force adv. cmt, Nebr. Legis. Coun. Cmt. Coord. Higher Ed, 67- U.S.A, 51-52; Nat. Guard, 56-68, Maj. Ed. Res. Asn; Voc. Asn. Vocational and teacher education; higher education. Publ: Co-auth, Encouraging non-college bound rural young adults to participate in continuing education, Adult Leadership, 12/65, Student involvement in governance and administration of higher education, J. Asn. Deans & Adminstr. Student Affairs, 10/66 & Occupational commonalities, a base for course construction, Voc. Guid. Quart, summer 68. Address: 441 Hazelwood Dr, Lincoln, Nebr. 68510.

HORNER, DR. JOHN STUART, b. Altoona, Pa, Mar. 16, 27; m. 47; c. 3. AUDIOLOGY, SPEECH PATHOLOGY. A.B, Antioch Col, 51; M.A, Kent State, 59; Ph.D.(audiol), Northwestern, 64. Teacher, high sch, Alaska, 51-52; supvr. speech & hearing dept, Rehab. Center, Summit County, Ohio, 53-59; audiologist & speech pathologist, Cincinnati Speech & Hearing Center, 59-60; audiologist, West Side Vet. Admin. Hosp, Chicago, Ill, 61-62; audiol. consult, Parmley Inst. Hearing Res, Loyola (Ill), 62-64; ASST. PROF. AUDIOL, SPEECH & HEARING CENTER, VIRGINIA, 64- Audiol. staff consult,

dept. otolaryngol, med. sch, Univ. Virginia, 64-; Va. Speech & Hearing Found, 64-; St. Elizabeth's Hosp, Dept. Health, Ed. & Welfare, Wash, D.C, 66- Adv. cert. speech path, Am. Speech & Hearing Asn, 61, audiol, 65. U.S.A.A.F, 45-46. Acoustical Soc; Speech & Hearing Asn. Relationship of auditory tone decay to speech discrimination; prediction by formula of the cumulation of just-noticeable-differences in normal and impaired ears. Address: Speech & Hearing Center, 109 N. Cabell Hall, University of Virginia, Charlottesville, Va. 22903.

HORNGREN, PROF. CHARLES T, b. Milwaukee, Wis, Oct. 28, 26; m. 52; c. 2. ACCOUNTING. B.S, Marquette, 49; M.B.A, Harvard, 52; Ph.D.(acct), Chicago, 55. Instr. ACCT, Chicago, 52-54, asst. prof, 54-55; Marquette, 55-56; assoc. prof, Wisconsin, Milwaukee, 56-59; Chicago, 59-63, PROF, 63-66; SCH. BUS, STANFORD, 66-, vis. res. prof, 65-66. U.S.A, 44-46. Nat. Asn. Acct; Am. Acct. Asn. Management accounting; analysis of financial statements. Publ: Co-auth, CPA problems and approaches to solutions, 2nd ed, 64, auth, Accounting for management control, 65 & Cost accounting, 2nd ed, 67, Prentice-Hall. Address: Dept. of Accounting, Stanford University School of Business, Stanford, Calif. 94305.

HORNICK, DR. RICHARD J(OSEPH), b. West Allis, Wis, Jan. 3, 35; m. 57; c. 4. EXPERIMENTAL PSYCHOLOGY. B.S, Marquette, 56; M.S, Purdue, 58, Ph.D, 60. Res. scientist, HumRRO, Ft. Knox, Ky, 59; chief res. psychologist, Bostrom Res. Labs. Div, Bostrom Corp, 60-62; sr. res. engr, space div, N.AM. ROCKWELL CORP, 62-64, supvr. behav. sci, Los Angeles div, 65-67, GROUP SCIENTIST EXP. PROG, AUTONETICS DIV, 67- Mem. cmt, Am. Standards Inst, 62-; cmt. hearing, bioacoustics and biomech, Nat. Acad. Sci-Nat. Res. Coun, 63- AAAS; Psychol. Asn; Human Factors Soc. Effects of whole body vibration on human performance and physiological responses; human factors research; human learning theory; hypnosis; auditory and visual perception; speed reading instruction. Publ: Problems of vibration research, Pergammon, 63; Effects of whole-body vibration in three directions on human performance, J. Eng. Psychol; A study and review of human exposure to prolonged random vibration, Human Factors, 12/66. Address: 1324 Sheppard Dr, Fullerton, Calif. 92631.

HORNSETH, DR. JOHN P(HILIP), b. Stanley, Wis, Jan. 13, 20; m. 48; c. 3. PSYCHOLOGY. B.A, Carroll Col, 41; M.A, Wisconsin, 49, Ph.D, 52. Res. assoc, Wisconsin, 51-52; RES. PSYCHOLOGIST, WRIGHT-PATTERSON AIR FORCE BASE, 52- U.S.A.A.F, 42-46. Psychol. Asn. Engineering psychology. Publ: Discrimination of random series of stimulus frequencies as a function of their relative and absolute values. Address: 180 Estelle Ave, Enon, Ohio 45323.

HOROVITZ, DR. ZOLA PHILLIP, Pharmacol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HOROWITZ, DR. A(RNOLD) E(LI), b. Brooklyn, N.Y, Apr. 18, 25; div. PSYCHOLOGY. B.S, Columbia, 50; A.M, Harvard, 52, Ph.D.(soc. psychol), 55. Res. assoc. psychol, ment. health res. inst, Michigan, 55-57; instr. psycholinguistics, 57-59; res. psychologist, oper. appln. lab, U.S. Air Force Cambridge Res. Center, 56-60. Sr. res. psychologist, lab. res. & develop, Franklin Inst, Phila, Pa, 60-61; ASST. PROF. PSYCHOL, HOFSTRA COL, 61- U.S.A, 43-45. AAAS; Psychol. Asn; Ling. Soc. Psycholinguistics; small groups; cognitive processes. Publ: Co-auth, Phonetic symbolism in natural languages; Morpheme order and syllable structure in the learning of miniature linguistic systems; Navaho color categories. Address: 90 Seventh Ave, Sea Cliff, N.Y. 11579.

HOROWITZ, PROF. C. MORRIS, b. Brooklyn, N.Y, Jan. 28, 18; m. 45; c. 3. ECONOMICS, STATISTICS. B.A, Brooklyn Col, 44; M.A, New Sch. Soc. Res, 55. From instr. to LECTR. ECON, BROOKLYN COL, 46-; ASST. PROF. BUS, QUEENSBOROUGH COMMUNITY COL, 62- Statistician, Am. Asn. Jewish Ed, 47-54; guest lectr, Long Island, 59-60. Statist. consult, Jewish Ed. Cmt. N.Y, Inc, 54-62. Dir. demog. study cmt, Fedn. Jewish Philanthrop. N.Y, 59-60. AAAS; Econ. Asn; Statist. Asn; fel. Sociol. Asn; Pop. Asn. Demography; labor statistics; census. Publ: Estimated Jewish population of the New York area, 1900-1975; Basic statistics as applied to the social sciences and business, Faculty Press, 66; Methods in principles of statistical analysis, Exp. Ed. Address: 1577 E. 18th St, Brooklyn, N.Y. 11230.

HOROWITZ, DR. FRANCES DEGEN, b. Bronx, N.Y, May 5, 32; m. 53; c. 2. DEVELOPMENTAL PSYCHOLOGY. B.A, Antioch Col, 54; M.Ed, Goucher Col, 54; Ph.D, Iowa, 59. Asst. prof. psychol, South. Ore. Col, 60-61; summer vis. res. assoc, bur. child res, KANSAS, 60, res. assoc, 61-62, asst. prof. psychol, 62-64, ASSOC. PROF. PSYCHOL. & HUMAN DEVELOP, 64-, CHMN. DEPT. HUMAN DEVELOP, 67-, acting chmn. dept, 64-67. Consult, head start res. & eval. center, Kansas, 66- AAAS; Asn. Ment. Deficiency; Psychol. Asn; Soc. Res. Child Develop. Infant development and individual differences; children's learning. Publ: Theories of arousal and retardation potential, Ment. Retardation, 65; co-auth, Discrimination learning, manifest anxiety and effects of reinforcement, Child Develop, 65; auth, Infant learning and development—retrospect and prospect, Merrill-Palmer Quart, 68. Address: Dept. of Human Development, University of Kansas, Lawrence, Kans. 66044.

HOROWITZ, PROF. IRA, b. New York, N.Y, Feb. 12, 34; m. 58. ECONOMICS. B.A, Hopkins, 55; Wilson fel, Mass. Inst. Tech, 55-56, univ. fel, 56-57, Ph.D, 59. Instr. econ, Mass. Inst. Tech, 57-59; lectr, Univ. Kansas City, 60; asst. prof. bus. admin, INDIANA, 60-66, PROF. BUS. ADMIN. & CHMN. QUANT. BUS. ANAL, SCH. BUS, 66- Asst. analyst, opers. res. off, Hopkins, 57-59; assoc. analyst, Midwest Res. Inst, 59-60; summer, math. statistician, U.S. Bur. Census, 56. Econ. Asn; Economet. Soc; Sci. Res. Soc. Research methods; investment trust performance. Publ: Estimating changes in the research budget, J. Indust. Eng; Regression models for measuring the returns and determinant of industrial research expenditures; co-auth, project evaluation in new technical fields. Address: School of Business, Indiana University, Bloomington, Ind. 47401.

HOROWITZ, PROF. IRVING L(OUIS), b. New York, N.Y, Sept. 25, 29; div; c. 2. SOCIOLOGY. B.S.S, City Col. New York, 51; M.A, Columbia, 52; fel, Brandeis, 58-59, Ph.D, Buenos Aires, 57. Asst. philos, Columbia, 51-53; vis. prof. sociol, Buenos Aires, 55-57; asst. prof, Bard Col, 59-60; asst. prof. sociol. & chmn. dept. anthrop. & sociol, Hobart & William Smith Cols, 60-63; assoc. prof. SOCIOL, WASHINGTON (ST. LOUIS), 63-65, PROF, 65- Vis. prof, Caracas, 57; Buenos Aires, 59 & 63; Buffalo, 60; Syracuse, 61; London Sch. Econ, 62; Rochester, 62; California, Davis, 66; Wisconsin, Madison, 67; Stanford, 67-68. Consult, Ford Found, Latin Am. Inst. Ed, 59. Ed, Studies Comp. Int. Develop, 64-; sr. ed, Trans-action Mag, 64- Citation, Carnegie Endowment Int. Peace, 57. AAAS; Am. Sociol. Asn; Soc. Study Soc. Prob; Am. Philos. Asn; fel, Royal Inst. Philos; Int. Sociol. Asn. Sociology of knowledge and science; political sociology; developing nations; history and theory of sociology; logic of social sciences. Publ: Three worlds of development: the theory and practice of international stratification, Oxford Univ, 66; The rise and fall of project Camelot, Mass. Inst. Tech, 67; Professing sociology: studies in the life cycle of social science, Aldine Pub, 68. Address: Dept. of Sociology, Washington University, St. Louis, Mo. 63130.

HOROWITZ, DR. LEONARD M(ARTIN), b. Baltimore, Md, Mar. 1, 37. PSYCHOLOGY. B.A. & M.A, Hopkins, 57, Woodrow Wilson fel, 57-58, Soc. Sci. Res. Coun. fel, 59-60, Ph.D.(psychol), 60; Fulbright fel, Univ. Col, London, 58-59. Asst. prof. PSYCHOL, STANFORD, 60-65, ASSOC. PROF, 65- Psychol. Asn. Verbal learning; relationship between language and thought; statistical methodology. Publ: Measurement, W.C. Brown, 66; co-auth, Availability and the direction of associations, J. Exp. Psychol, 64 & Availability and associative symmetry, Psychol. Rev, 66. Address: Dept. of Psychology, Stanford University, Stanford, Calif. 94305.

HOROWITZ, DR. MARDI J, b. Los Angeles, Calif, May 16, 34; m. 59; c. 2. PSYCHIATRY. A.B, California, 55, M.D, 58. Intern med, med. sch. hosp, Oregon, 58-59; RES. PSYCHIAT, SCH. MED, CALIFORNIA & LANGLEY PORTER NEUROPSYCHIAT. INST, 59-62, clin. instr, 62-65, ASST. CLIN. PROF, 65-; RES. SCIENTIST, MT. ZION MED. CENTER, 64- Med.C, U.S.N.R, 62-64, Lt. Comdr. AAAS; Psychiat. Asn; Am. Med. Asn. Psychopathology, especially abnormal cognitive organization; disturbances in imagery; body image distortions; thought forms. Publ: Body image, Arch. Gen. Psychiat, 66; Imagery visual hallucinations, J. Nervous & Ment. Diseases, 67; Visual imagery and cognitive organization, Am. J. Psychiat, 67. Address: Dept. of Psychiatry, Mt. Zion Hospital & Medical Center, San Francisco, Calif. 94119.

HOROWITZ, PROF. MICHAEL M, b. New York, N.Y, Nov. 2, 33; m. 55; c. 3. CULTURAL ANTHROPOLOGY. B.A, Oberlin Col, 55; Woodrow Wilson & Soc. Sci. Res. Coun. fels, Columbia, 55-56, M.A, 56, univ. fel, 56-57, 58-59, Ph.D.(anthrop), 59. Asst. prof. ANTHROP, Kent State, 59-61; Harpur Col, 61-63, ASSOC. PROF, STATE UNIV. N.Y. BINGHAMTON, 63-, chmn. dept, 62-66. Prof. & Fulbright res. scholar, Inst. Soc. Anthrop, Bergen, 66-67; prin. investr, Nat. Sci. Found. res. grant, nomadic-sedentary rels. in transitional ecol. zone, 67-69. For. area consult, Peace Corps Training Prog, Niger & Senegal, 64. Fel. Anthrop. Asn; fel. African Studies Asn; African Studies Asn. U.K. Economic development and social change; role theory and predictive models of social organization; ethnic boundary maintenance; nomadism, peasantry and community studies; Sudanic Africa and the Caribbean. Publ: Morne Paysan: peasant village in Martinique, Holt, 67; A reconsideration of the Eastern Sudan, Cahiers d'Etudes Africaines, 67; A decision model of conjugal patterns in Martinique, Man, 67. Address: Dept. of Anthropology, State University of New York at Binghamton, Binghamton, N.Y. 13901.

HOROWITZ, DR. MILTON J(OSHUA), b. Brooklyn, N.Y, July 24, 23; m. 47; c. 4. CLINICAL PSYCHOLOGY. B.S, City Col. N.Y, 43; Ph.D.(psychol), Kansas, 52. Intern clin. psychol, Vet. Admin. & Menninger Found, 47-50; instr, Kansas, 50-51; sr. instr, sch. med, Western Reserve, 52-56, asst. prof. psychiat. & psychol, 56-64, lectr, law-med. center, 56, sch. appl. soc. sci, 57, assoc, div. res. in med. ed, 58-64; ASSOC. DIR. PRFNL. SERV. & DIR. TRAINING, REISS DAVIS CHILD STUDY CENTER, 64- Psychologist, Watkins Hosp, Kans, 50-51; Univ. Hosps. Cleveland, 52-56, chief psychologist, 56-64; Commonwealth Fund fel, center study higher ed, California, Berkeley, 61-62. Consult, Jewish Voc. Serv, Ohio, 53. Dipl, Am. Bd. Exam. Prfnl. Psychol, 56. Mil. Intel, 43-46, 1st Lt. Psychol. Asn; Orthopsychiat. Asn. Professional education; psychotherapy; psychopathology; studies of teaching and learning. Publ: Educating tomorrow's doctors, Appleton, 64; Research in professional education, U.S. Off. Ed, 67; Teen-ager's guide to parents, in press, 68. Address: Reiss Davis Child Study Center, 9760 W. Pico Blvd, Los Angeles, Calif. 90035.

HOROWITZ, PROF. MILTON W(ILLIAM), b. Hartford, Conn, Nov. 29, 15; m. 44; c. 2. PSYCHOLOGY. B.A, Connecticut, 42; M.A, Nebraska, 43; fel, Stanford, 43-47, Ph.D.(psychol), 47. Asst. prof. PSYCHOL, Kansas, 47-50; QUEENS COL.(N.Y), 51-58, ASSOC. PROF, 58- Res. assoc, U.S. Pub. Health Serv, 47-48. Civilian with Nat. Defense Res. Cmt. AAAS; Psychol. Asn; Soc. Res. Child Develop; N.Y. Acad. Sci. Interpersonal relations; group dynamics; social theory. Publ: Induction of forces in discussion groups, Human Rels; Concept of the social group & Discussion group and democratic behavior, J. Soc. Psychol. Address: 80-50 235th St, Queens Village, N.Y. 11427.

HOROWITZ, PROF. MORRIS A(ARON), b. Newark, N.J, Nov. 19, 19; m. 41; c. 2. LABOR ECONOMICS, GOVERNMENT. B.A, N.Y. Univ, 40; Littauer fel, Harvard, 46-47, Ph.D, 54. Labor economist, U.S. Dept. Labor, 41-42; Off. Defense Transportation, 42-44; Nat. War Labor Bd, 44-46; asst. prof. indust. rels, inst. labor & indust. rels, Illinois, 47-51; dir. off. case anal, Wage Stabilization Bd, 51-53; res. assoc. law, Harvard, 53-54, labor econ, 54-56; PROF. ECON, NORTHEASTERN, 56- Manpower specialist, Ford Found, 61-62, manpower consult, 65-66. Consult, U.S. Dept. Labor, 60; manpower consult, Agency Int. Develop. Industrial relations; labor market analysis in underdeveloped countries; international comparisons of occupational structures; vocational education. Publ: New York hotel industry: a labor relations study; Manpower utilization in the railroad industry; co-auth, Manpower requirements for planning: an international comparison approach, Northeastern, 66. Address: Dept. of Economics, Northeastern University, Boston, Mass. 02115.

HOROWITZ, DR. STANLEY, b. New York, N.Y, Feb. 21, 25; m. 51; c. 2. PSYCHOLOGY, EDUCATION. B.A, Brooklyn Col, 48; M.S, Oklahoma, 49, Ph.D. (ed, psychol), 53. Clin. psychologist, Minnehaha County Ment. Health Center, Sioux Falls, S.Dak, 52-53; staff psychologist, Childrens Ment. Health Center, Columbus, Ohio, 53-54; chief psychologist, Guid. Inst, Reading, Pa, 54-58; CHIEF CLIN. PSYCHOLOGIST, MORRIS COUNTY GUID. CENTER, MORRIS PLAINS, 58- Instr, Fairleigh Dickinson, 60-; supvr. training, Rutgers, 61- Private practice, 58- U.S.A, 44-46. Psychol. Asn. Play therapy; projective techniques; retarded children. Address: 39 Clover Lane, R.D. 3, Dover, N.J. 07801.

HORRALL, DR. BERNICE M(OODY), b. Ind, Mar. 15, 00; m. 22; c. 2. PSYCHOLOGY. B.S, Purdue, 21, M.S, 43, Ph.D, 52; Chicago, 48-49. Training extern, psychol. lab, Michael Reese Hosp, 49-50; sr. psychologist, psychiat. inst, Munic. Court of Chicago, Ill, 50-58; psychologist, Sch. City of South Bend, 58-63; SCH. PSYCHOLOGIST, NORTHEAST. IND. SCH. STUDY COUN, 63- Publ: Relationships between college aptitude and discouragement-buoyance among college freshmen, J. Genetic Psychol; Academic performance and personality adjustments of highly intelligent college students, Genetic Psychol. Monogr. Address: 891 Lake Dr, Ray, Ind. 46737.

HORRIGAN, PROF. FREDERICK J(AMES), Polit. Sci, see 10th ed, Phys. & Biol. Vols. Latest known address: 1841 Roanoke St, Louisville, Ky. 40205.

HORRIGAN, DR. JAMES O(WEN), b. Joliet, Ill, Dec. 27, 30; m. 55; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. B.S.C, Notre Dame, 52; M.B.A, Chicago, 56, fel, 58-60, Ph.D.(bus), 67. Asst. prof. finance & bus. econ, Notre Dame, 56-66; ASSOC. PROF. BUS. ADMIN, WHITTEMORE SCH. BUS. & ECON, NEW HAMPSHIRE, 66- U.S.N, 52-55, Lt(jg). Econ. Asn; Am. Acct. Asn; Finance Asn. Evaluation of the quantitative criteria utilized in financial statement analysis. Publ: Some empirical bases of financial ratio analysis, 7/65 & A short history of financial ratio analysis, 4/68, Acct. Rev; The determination of long-term credit standing with financial ratios, J. Acct. Res. Suppl, 66. Address: Bennett Rd, Durham, N.H. 03824.

HORROCKS, PROF. JOHN EDWIN, b. Cohoes, N.Y, Aug. 7, 13; m. 40. DEVELOPMENTAL PSYCHOLOGY. B.A, N.Y. State Col. Teachers, 37; M.A, Syracuse, 41, Ph.D.(psychol), 45. Teacher, high sch, N.Y, 37-42; Eng. & govt, Lockport Americanization Sch, 42-43; admin. asst, Syracuse, 43-44, instr. ed. psychol, 44-45; asst. prof. PSYCHOL, OHIO STATE, 45-47, assoc. prof, 47-52, PROF, 52-, res. supvr, res. found, 51-60, chmn. inst. child develop. & family life, 54-58. Ed, Int. Series Behav. Sci, 62-; J. Genetic Psychol. & Genetic Psychol. Monogr, 65- Mem. adv. cmt. personnel res. lab, U.S. Air Force, 65- Fel. Psychol. Asn; fel. Soc. Res. Child Develop; Royal Soc. Med. Development; measurement; self-concept; motivation. Publ: Assessment of behavior, C.E. Merrill, 64; Psychology of adolescence; Psychology of education. Address: Dept. of Psychology, Ohio State University, Columbus, Ohio 43210.

HORSLEY, PROF. MARGARET (WYANT), b. Globe, Ariz, Dec. 2, 18; m. 47. ANTHROPOLOGY. B.A, California, 40; Ph.D, Columbia, 50. Instr. polit. sci. & sociol, Hofstra Col, 50-53; researcher, 53-56; from asst. prof. to assoc. prof. SOCIOL, WASHINGTON COL, 56-63, PROF, 63-, dean women, 61-65. Fulbright scholar, Philippines, 51-52. W.A.C, 43-45. Fel. Anthrop. Asn. Southeast Asia. Address: Dept. of Sociology, Washington College, Chestertown, Md. 21620.

HORST, PROF. OSCAR H(EINZ), b. Newark, Ohio, Mar. 4, 24; m. 52; c. 2. GEOGRAPHY. B.Sc, Ohio State, 49, M.A, 51, Ph.D.(geog), 56. Instr. GEOG, Ohio State, 55-56, PROF, WESTERN MICHIGAN, 56- U.S.A, 45-46. Asn. Am. Geog; Geog. Soc. Geography of Latin America; eco-geographic aspects of development in developing nations. Publ: Land and politics in rural Guatemala: a study of a highland agricultural community, In: The community in revolutionary Latin America, Occasional Pub, Center Latin Am. Studies, Univ. Kansas, 64; The spector of death in a Guatemalan highland community, Geog. Rev, 4/67; The development of a educational system in a rural Guatemalan community, J. Inter-Am. Studies, 8/68. Address: Dept. of Geography, Western Michigan University, Kalamazoo, Mich. 49001.

HORST, PROF. PAUL, b. Newton, Kans, Nov. 28, 03; m. 35; c. 3. PSYCHOLOGY. A.B, California, 27; fel, Chicago, 29-30, Ph.D.(psychol), 31. Instr. psychol, Kans. State Teachers Col, 29; asst, res. div, U.S. Civil Serv. Cmn, 30-32; supvr. selection res, personnel res. dept, Procter & Gamble Co, 32-42, mgr, 45-47; PROF. PSYCHOL, WASHINGTON (SEATTLE), 47-U.S.A.A.F, 42-45. AAAS; Psychol. Asn; Psychomet. Soc.(secy, 36, pres, 41); Inst. Math. Statist. Personnel; psychological tests; statistics. Publ: Matrix algebra for social scientists, 63 & Factor analysis of data matrices, 65, Holt; Psychological measurement and prediction, Wadsworth, 66. Address: Dept. of Psychology, University of Washington, Seattle, Wash. 98105.

HORTIN, PROF. L(OREN) J(OSEPH), b. Albion, Ill, Jan. 10, 04; m. 30. JOURNALISM. A.B, McKendree Col, 27, hon. Litt.D, 54; A.M, Murray State Col, 43. Reporter, St. Louis Post-Dispatch, Mo, 27; prin, high sch, Ill, 27-28; head dept. jour. & dir. publicity, Murray State Col, 28-47; assoc. prof. journalism, Ohio, 47-51, prof, 52-67, acting dir. sch. journalism, 51, dir, 52-67; DIR. JOURNALISM, MURRAY STATE, 67- Staff correspondent, Assoc. Press, 30-47. Gold Key award, Columbia Scholastic Press Asn, 66; distinguished serv. journalism award, Ohio Newspaper Asn, 67. Asn. Ed. Jour; Pub. Rels. Soc. Am. Public relations; workshop for high school journalists; history of radio. Publ: Co-auth, Modern journalism, Pitman, 62. Address: Box 1222, University Station, Murray State University, Murray, Ky. 42071.

HORTON, PROF. DAVID, b. St. Louis Co, Mo, Mar. 13, 14; m. 43; c. 4. POLITICAL SCIENCE. A.B, Washington (St. Louis), 35, A.M, 36; Ph.D.(polit. sci), Harvard, 48. Instr. soc. sci, Wright Jr. Col, 39-42; import analyst, War Prod. Bd, 42-45; dir. import-export div, Civilian Prod. Admin, 45-46, historian, import prog, 47; assoc. prof. POLIT. SCI, Westminster Col, 47-50, PROF. & CHMN. DEPT, 50-66; SOUTH ALABAMA, 66- Consult, U.S. Dept. Commerce, summer 50; U.S. Bur. Budget, 61. Polit. Sci. Asn; Soc. Publ. Admin; Pub. Personnel Asn. Political theory; public law and administration. Publ: Co-auth, Introduction to social science, Macmillan, 42; auth, Import policies and programs, Civilian Prod. Admin, 47; co-auth, Freedom and equality, Univ. Missouri, 60. Address: Dept. of Political Science, University of South Alabama, 307 Gaillard Dr, Mobile, Ala. 36608.

HORTON, DR. DAVID LEE, b. Detroit, Mich, Dec. 18, 33; m. 60; c. 1. PSYCHOLOGY. B.A, Minnesota, 55, M.A, 57, Ph.D.(psychol), 59. Instr. PSYCHOL, Minnesota, 57-59; asst. prof, Kentucky, 59-64, ASSOC. PROF, 64-67; MARYLAND, 67- Psychol. Asn. Experimental psychology; human learning; verbal behavior. Publ: Co-auth, Verbal behavior and general behavior theory, Prentice-Hall, 68; An experimental analysis of associative factors in mediated generalizations, Psychol. Monogr; auth, The effect of mediation on the retention and strength of previously formed associations, J. Verbal Learning & Verbal Behav. Address: Dept. of Psychology, University of Maryland, College Park, Md. 20742.

HORTON, PROF. DONALD C(LAIRE), b. Sycamore, Ohio, Sept. 1, 03; m. 24; c. 1. ECONOMICS, PUBLIC ADMINISTRATION. B.S, Ohio State, 26, M.A, 27; Ph.D, Michigan, 33. Instr. econ, money & credit, Michigan, 27-33; econ. analyst, U.S. Dept. Commerce, 34-35; agr. economist, U.S. Dept. Agr, 36-49; econ. statistician, U.S. Bur. Budget, 50-52, fiscal economist, 53-66; PROF. ECON, Bowling Green State, 66-67; NORTHERN ILLINOIS, 67- Vis. asst. prof, Brown, 37-38; lectr, American Univ, 45-; vis. prof, Iowa State, 46; lectr, Wisconsin, 51. Consult, Resources for Future Inc, 66-; U.S. Bur. Budget, 67- Am. Econ. Asn; Agr. Econ. Asn; Comp.Econ. Asn. Private finance; economics of agricultural finance and farm policy; transportation and foreign trade; public finance and fiscal policy. Publ: Long term debts in the U.S; Patterns of farm financial structure; co-auth, Farm mortgage credit facilities in the United States. Address: Dept. of Economics, Northern Illinois University, De Kalb, Ill. 60115.

HORTON, DR. FENN CLARK, b. Cedar Rapids, Iowa, Jan. 24, 26; m. 48; c. 3. ECONOMICS. B.A, Iowa, 50; Nat. Sci. Found. fel, Claremont Grad. Sch. & Grad. Center, 61, Ph.D.(econ), 67. Advert. & pub. rels. positions, Meredith Pub. Co, Gen. Elec. Co. & Litton Indust, Inc, 50-60; ASSOC. PROF. ECON, NAVAL POSTGRAD. SCH, 64- Econ. Asn. Theory of the optimal investment decision, public and private, with emphasis on differences in investment determinants characteristic of advanced, in contrast with less-advanced, economies. Address: Dept. of Business Administration & Economics, Naval Postgraduate School, Monterey, Calif. 93940.

HORTON, DR. FRANK E, b. Chicago, Ill, Aug. 19, 39; m. 61; c. 3. GEOGRAPHY. B.S, Western Illinois, 63; M.S, Northwestern, 64, Ph.D.(geog), 66. Res. assoc, transportation center, Northwestern, 65-66; ASST. PROF. GEOG, IOWA, 66- U.S.A, 58-60. Regional Sci. Asn; Am. Asn. Geog. Urban transportation planning; transportation geography; urban geography; urban planning; quantitative methodology in geographic research. Publ: Co-auth, Further comments of non-residential trip generation, Transportation Center, Northwestern, 66; Land use linkages, Hwy. Res. Bd. Record, 67; auth, Location factors as determinants of consumer attraction to intra urban retail firms, Ann. Asn. Am. Geogr. Address: Dept. of Geography, University of Iowa, Iowa City, Iowa 52240.

HORTON, DR. GEO(RGE) P(LANT), b. St. Louis, Mo, Mar. 18, 04; m. 35; c. 2. PSYCHOLOGY. B.S, Princeton, 26, M.A, 30, Ph.D.(psychol), 32. Nat. Res. Coun. fel, Princeton, 32-33, res. assoc, 33-34; instr. PSYCHOL, WASHINGTON (SEATTLE), 34-39, asst. prof, 39-46, ASSOC. PROF, 46-, ACTING EXEC. OFFICER DEPT, 59-, exec. officer, dept. correspondence study, 47-59. Vis. asst. prof, Princeton, 37-38; British Columbia, 41. Sci. consult, Sig.C, U.S.A, 42-45; U.S.A.A.F, 45. Psychol. Asn. Hearing and learning. Publ: Hearing in the guinea pig; Cats in a puzzle box. Address: Dept. of Psychology, University of Washington, Seattle, Wash. 98105.

HORTON, H(AROLD) BURKE, b. Bartlett, Tex, Aug. 31, 16; m. 38; c. 3. STATISTICS. B.B.A, Texas, 37, M.B.A, 38; Columbia, 40-41. Instr. statist, Texas, 39; economist & statistician, Nat. Resources Planning Bd, 42; prin. statistician, Interstate Commerce Cmn, 46-50; chief interindust. res. off, hqs, U.S. Dept. Air Force, 51-53; res. dir. bomb damage anal, Off. Defense Mobilization, 54, dir, Nat. Damage Assessment Center, 55-58; opers. res, Off. Civil & Defense Mobilization, 59; exec. asst. to v.pres. & gen. mgr, UNIVAC DIV, SPERRY RAND CORP, 60, dir. eng. & mfg. centers, 61, exec. asst. to pres, 62-63, gen. mgr, PHILA. OPERS, 63-64, dir. res, 64-67, DIR. OPERS. RES, 67- U.S.N, 43-46. Statist. Asn; Meteorol. Soc; Inst. Math. Statist. Operations analysis; linear programming and game theory; random processes. Publ: Proposal for obtaining a set of random numbers & A direct method for producing random digits in any number system, Ann. Math. Statist; Univac research in fluidics, Fluidics Quart, 9/67. Address: Univac Division, Sperry Rand Corp, Box 8100, Philadelphia, Pa. 19101.

HORTON, DR. IRENE P, b. Greenville, Ohio, Dec. 11, 20; m. 50; c. 2. PSYCHOLOGY. B.A, Ohio Wesleyan, 42; M.A, Chicago, 47, Rockefeller fel, 47-48, Ph.D.(psychol), 48. Instr. PSYCHOL, Chicago, 48; ASST. PROF, Utah, 48-50; TULSA, 63- AAAS; Psychol. Asn. Physiological basis of learning. Address: Dept. of Psychology, University of Tulsa, Tulsa, Okla. 74104.

HORTON, DR. JOHN E, b. Milwaukee, Wis, June 3, 32. SOCIOLOGY. B.A, Wisconsin, 54; Fulbright grant & Woodrow Wilson fel, Col. Europe, Belgium, 54-55, cert, 55; fel. & Ph.D, Cornell, 60. Instr. SOCIOL, CALIFORNIA, LOS ANGELES, 59-61, asst. prof, 61-67, ASSOC. PROF, 67- Sociol. Asn. Political sociology; deviance; sociology of knowledge. Publ: Power and political negativism, Am. J. Sociol, 3/62; Dehumanization of alienation and anomie, Brit. J. Sociol, 12/64; Time and cool people, Trans-action, 4/67. Address: Dept. of Sociology, University of California, Los Angeles, Calif. 90024.

HORTON, DR. MELVIN E, b. St. Louis, Mo, Dec. 9, 38; m. 64. ECONOMICS. B.S, Missouri, Rolla, 59; M.B.A, City Col. New York, 62; M.A, Washington, Seattle, 64, Ph.D.(econ), 66. Assoc. ECON, Washington (Seattle), 64-66; ASST. PROF, Occidental Col, 66-67; CALIF. STATE COL. FULLERTON, 67- Bank of Am-Found. Econ. Ed. summer fel, 67. U.S.N, 59-62, Lt. Econ.

Asn. Medical, micro, and labor economics; industrial organization. Address: Dept. of Economics, California State College at Fullerton, Fullerton, Calif. 92631.

HORTON, PROF. PAUL B(URLEIGH), b. Pittsburgh, Pa, Nov. 16, 16; m. 41. SOCIOLOGY. A.B, Kent State, 39; Duke; fel. & Ph.D.(sociol), Ohio State, 49. Instr. SOCIOL, Butler, 43-45; asst. prof, WESTERN MICHIGAN, 45-49, assoc. prof, 49-58, PROF, 58- Sociol. Asn; Soc. Study Social Probs. Publ: Co-auth, The sociology of social problems; Appleton, 55, 60, 65; co-auth, Sociology, McGraw, 65; auth, Sociology and the health sciences, Blakiston, 65. Address: 2223 Rambling Rd, Kalamazoo, Mich. 49001.

HORVATH, DR. B(ARNA), b. Budapest, Hungary, Aug. 25, 96; nat; m. 23; c. 2. PHILOSOPHY, LAW. D.Jur, Budapest, 20. Govt. attorney, Hungary, 19-20; prof. legal philos, Francis Joseph Univ, Hungary, 29-49; vis. prof. polit. sci, New Sch. Soc. Res, 50-56; lectr, Univs. Copenhagen, Ghent, Berlin, Freiburg, Zurich & Vienna, 56-60; RETIRED. Gorove prize, Hungarian Acad. Sci, 25. Jurisprudence; legal sociology; public opinion. Publ: Rechtssoziologie; English legal theory; Comparative conflicts: law and the concept of changing law, Am. J. Comp. Law, 66. Address: 2323 40th Place N.W, Apt. 102, Washington, D.C. 20007.

HORVATH, PROF. JANOS, b. Cece, Hungary, Nov. 7, 21; U.S. citizen; m; c. 1. ECONOMICS. Eötvös Lorand, Budapest, 40-46; California, 62; Ph.D.(econ), Columbia, 67. Chief economist, Hungarian Farmers' Asn, 44-47; mem, Hungarian Parliament, 45-47; researcher indust. orgn, electronic corp, 51-56; vis. prof. ECON, Philippines, 58-59; assoc. prof, Whitman Col, 61-65, PROF, 65-68; BUTLER, 68- Dir, Am-Hungarian Relief, Inc, 45-47; pres, Hungarian Nat. Warehouse Center, 45-47; Hungarian Acad. Sci. res. fel, 46-47; Ford Found. res. fel, 62-63; Danforth Found. faculty fel, 63-65; pres, Kossuth Found, 65-; mem. staff, Center Study Democratic Insts, 67- Consult, UN Relief & Rehab. Admin, 45-47. Polit. prisoner, 44-45 & 47-50. AAAS; Econ. Asn; Asn. Asian Studies; Acad. Polit. & Soc. Sci. Economic development of transitional societies; comparative appraisal of Union of Soviet Socialist Republics and United States of America economic aid to underdeveloped countries; selected issues of national economic organization; game theory as applied in international relations. Publ: A gazdasagi fejlödés utjai, Hungarian Farmers Asn, 46; Hungary 1956, Comment, 59; Agriculture: which path?, Probs. Communism, 65. Address: College of Business Administration, Butler University, Indianapolis, Ind. 46207.

HORVATH, DR. JOSEPH CHARLES, b. Szekesfehervar, Hungary, May 20, 29; m. 57; c. 2. ECONOMICS. B.S, Eötvös Lórand, Budapest, 53, Ph.D.(econ), 57; Graz, 56-57; fel, Rutgers, 60-62, M.A, 60. Recreation economist, State Planning Authority, Budapest, Hungary, 55-56; lectr, Graz, 56-57; res. asst, Radio Corp. Am, 57-58; res. economist, bur. econ. res, col. eng, Rutgers, 58-62; res. analyst, city & county of Denver, 62-64; outdoor recreation specialist, bur. outdoor recreation, U.S. Dept. Interior, 64-65; sr. economist, ECON. DEVELOP. DIV, MIDWEST RES. INST, 65-66, SECT. HEAD RECREATION RES. & PLANNING, 66- Chmn, Mo. River Basin Inter-Agency Cmn-Recreation Task Force, 64-65; proj. leader state outdoor recreation comprehensive plans, Kans, Mo, Colo. & Minn. Dir, Am. Inst. Urban & Regional Affairs, 67- Econ. Asn; Nat. Recreation & Park Asn. Recreation research and planning; outdoor recreation; design of computer systems for evaluation of recreation demand, supply and needs. Publ: Present and future demand for outdoor recreation for the State of Kansas, 66, Colorado State outdoor recreation comprehensive plan, 67 & co-auth, Missouri State outdoor recreation comprehensive plan, 67, Midwest Res. Inst. Address: Midwest Research Institute, 425 Volker Blvd, Kansas City, Mo. 64110.

HORVATH, DR. PETER, b. Agyagos, Hungary, Nov. 6, 14; U.S. citizen. ECONOMICS. Ph.D, N.Y. Univ, 56. CHMN. DEPT. ECON, MARYMOUNT COL, 56- Address: 11 Park Ave, Tarrytown, N.Y. 10591.

HORVATH, DR. RONALD J, b. Scranton, Pa, May 5, 37; m. 59; c. 2. GEOGRAPHY. B.A, Long Beach State Col, 60; M.A, California, Los Angeles, 61, Ph.D.(geog), 66. Vis. prof. geog, Haile Selassie, 63-65; ASST. PROF, California, Santa Barbara, 65-67; GEOG. & AFRICAN STUDIES, MICH. STATE, 67- Asn. Am. Geog. Urbanization; cultural geography. Address: Dept. of Geography, Michigan State University, East Lansing, Mich. 48823.

HORVITZ, DR. PAUL M(ICHAEL), b. Providence, R.I, Aug. 6, 35; m. 55; c. 2. ECONOMICS, FINANCE. Ford Found. fel, Chicago, 51-53, B.A, 54; M.B.A, Boston, 56; Nat. Sci. Found. fel, Mass. Inst. Tech, 57-58, Ph.D.(econ), 58. Asst, Fed. Reserve Bank of Boston, 56-58, financial economist, 58-60; asst. prof. finance, Boston, 60-62; economist, Mitre Corp, 62-63; sr. economist, Off. Comptroller Currency, 63-66, assoc. dir. econ. res, 66-67; DEP. DIR. RES, FED. DEPOSIT INS. CORP, 67- Lectr, Katherine Gibbs Sch, Mass, 60-62; Georgetown, 67- Consult, Cmn. Money & Credit, 60. Econ. Asn; Finance Asn. Studies of banking structure and operations; competition in banking. Publ: Economies of scale in banking; Monetary policy and the financial system, Prentice-Hall, 63; Stimulating competition through regulatory action, J. Finance, 65. Address: 9907 Inglemere Dr, Bethesda, Md. 20034.

HORWICH, PROF. GEORGE, b. Detroit, Mich, July 23, 24; m. 53; c. 4. ECONOMICS. A.M, Chicago, 51, Ph.D.(econ), 54. Asst. statist, Chicago, 50-51; lectr. econ, exten. centers, Indiana, 49-52, instr, univ, 52-55; res. assoc, Nat. Bur. Econ. Res, 55-56; asst. prof. ECON, PURDUE, 56-59, assoc. prof, 59-63, PROF, 63- Economist, Brookings Inst, 58-62. C.Eng, U.S.A, 43-46. Econ. Asn; Royal Econ. Soc. Macroeconomics; theory and empirical research. Publ: Money, capital, and prices, Irwin, 64; Money, prices, and the theory of interest determination, Econ. J, 12/57; Tight money, monetary restraint, and the price level, J. Finance, 3/66. Address: Dept. of Economics, Purdue University, Lafayette, Ind. 47907.

HORWITZ, DR. BERTRAND N, b. Chicago, Ill, Mar. 12, 27; m. 52; c. 3. ACCOUNTING, ECONOMICS. A.B, Chicago, 49, A.M, 51; Ph.D.(acct, econ), Minnesota, 62. Instr. econ. & acct, Minnesota, 56-60; assoc, Russian Res. Center, Harvard, 60-61; asst. prof, Rochester, 61-62; Sloan teaching fel, Mass. Inst. Tech, 62-63; asst. prof, Rochester, 63-67; ASSOC. PROF. ACCT, SYRACUSE, 67- Sloan teaching fel, Mass. Inst. Tech, 60-61; Ford Found. summer grant seminar appl. math. & comput, 65; American Coun. Learned Socs-Soc. Sci. Res. Coun. grants, summer, 66 & 67-68. U.S.N, 45-46. Econ. Asn; Am. Acct. Asn; Nat. Acct. Asn. Financial controls of Soviet enterprises under the economic reforms; income smoothing in accounting. Publ: Depreciation and cost stability in Soviet accounting, Acct. Rev, 10/63; co-auth, Accounting measurement and normal growth of the firm, Am. Acct. Asn, 66; auth, Profit responsibility in Soviet enterprise, J. Bus, 1/68. Address: Dept. of Accounting, Syracuse University, Sims 107B, Syracuse, N.Y. 13210.

HORWITZ, PROF. MURRAY, b. New York, N.Y, Mar. 1, 20; m. 48; c. 5. PSYCHOLOGY. B.S.S, City Col. New York, 40; Harvard, 40-41; Mass. Inst. Tech, 46-48; Ph.D.(soc. psychol), Michigan, 50. Analyst eng, Gen. Motors Corp, 42-44; study dir. psychol, surv. res. center, Michigan, 49-50; asst. prof. ed. psychol, bur. ed. res, Illinois, 50-53, assoc. prof, 53-56; psychol, res. center human rels, N.Y. Univ, 56-60, prof, 60-66; RES. PROF. COMMUNITY SOC. PSYCHOL, INST. HUMAN SCI, BOSTON COL, 66- Res. award, Off. Naval Res, 52-66; Esso Standard Oil Co, 59-61; Nat. Sci. Found, 61-66; Nat. Inst. Ment. Health sr. fel, 63-64; Ford Found. grant multinat. orgn, 63-65; Higher Ed. Facilities grant training community leaders, 67-; Permanent Charities grant community influence on integrated ed, 68- Tech. dir, nat. bd, Nat. Training Labs, 54-58; vis. prof. soc. psychol, inst. soc. psychol, Utrecht, 63-64; Ford Found. vis. prof. orgn. behav, grad. sch. bus. admin, Harvard, 64-65; co-dir, Joint Community-Univ. Center Inner-City Change, 67- Indust. consult, 56-; consult. ed, J. Personality & Soc. Psychol, 62-67; consult. training orgn. behav, Harvard Bus. Sch, 65-66. Coun. mem, Soc. Psychol. Study Soc. Issues, 62-64. U.S.N, 44-46. Fel. Psychol. Asn. Social psychology; group and intergroup dynamics; organizational behavior; intercultural conflict and cooperation; multinational organizations; community change. Address: Conant Rd, Lincoln, Mass. 01773.

HORWITZ, PROF. ROBERT HENRY, b. El Paso, Tex, Sept. 3, 23; m. 48; c. 2. POLITICAL SCIENCE. B.A, Amherst Col, 48; M.A, Hawaii, 49; fel, Schwarzhaupt Found. N.Y, 53; Ph.D.(polit. sci, Am. hist), Chicago, 54. Instr. govt, exten. div, Hawaii, 49-50; asst, cmt. ed. for Am. citizenship, Chicago, 52-53, polit. sci, 53-54; asst. prof. govt. & res. asst. soc. sci, legis. reference bur, Hawaii, 55-56; asst. prof. POLIT. SCI, Mich. State, 56-60, assoc. prof, 60-64, prof, 64-65; PROF. & CHMN. DEPT, KENYON COL, 65- Dir, U.S. Army Ed. Center, Hawaii, 49; fel, Rockefeller Found. Prog, 58-59; summer vis. lectr, Hawaii, 60; Rockefeller Found. fel, 63-64. Summer consult, Ford Found. Prog. Behav. Sci, 56-57; chief consult. pub. land study, State of Hawaii, 62-68. U.S.A.A.F, 42-46, U.S.A.R, 46-52. Polit. Sci. Asn; Soc. Pub. Admin. Political philosophy, especially comparative ideologies, citizenship education and philosophy of the social sciences; public policy formation and the legislative process. Publ: Co-auth, Modern political ideologies; contrib, Essays on the scientific study of politics; History of political philosophy, Rand McNally, 63. Address: Dept. of Political Science, Kenyon College, Gambier, Ohio 43022.

HORWITZ, DR. RONALD M, b. Detroit, Mich, June 25, 38; m. 61; c. 3. FINANCE, ECONOMICS B.S, Wayne State, 59, univ. fel, 59-60, M.B.A, 60; Am. Bankers Asn. Stonier fel, Mich. State, 62-63, Ph.D.(financial admin), 64. Staff acct, Nida & Bokolor, 56-60; instr. acct, Wayne State, 60-61, 62-63; asst. prof, DETROIT, 63-64, ASSOC. PROF. FINANCE, 64- Finance Asn; Am. Acct. Asn. Corporate financial management. Publ: Co-auth, Self-correcting problems in introductory accounting, Allyn & Bacon, 66. Address: University of Detroit College of Commerce & Finance, Detroit, Mich. 48221.

HOSACK, PROF. ROBERT E(WING), b. Smiths Ferry, Pa, May 15, 11; m. 37; c. 3. POLITICAL SCIENCE. A.B, Col. Wooster, 32; A.M, Chicago, 34; summers, West Virginia, 34, 37; Ph.D, Duke, 51. Chmn. dept. soc. studies, high sch, W.Va, 34-39; instr. POLIT. SCI, Duke, 42-43; IDAHO, 43-47, asst. prof, 47-49, assoc. prof. & chmn. dept, 49-53, PROF, 53-, HEAD DEPT. SOC. SCI, 55- Fulbright-Hays res. scholar, 67-68. Polit. Sci. Asn; Asn. Asian Studies; Int. Studies Asn. Government of China; the Shantung question and the senate; ideas on politics. Address: Dept. of Social Sciences, University of Idaho, Moscow, Idaho 83843.

HOSELITZ, PROF. BERT(HOLD) F(RANK), b. Vienna, Austria, May 27, 13; nat; m. 45; c. 2. ECONOMICS. Dr.Jr.(econ), Vienna, 36; M.A, Chicago, 45. Instr. econ, Manchester Col, 40-41; res. assoc. int. rels, Yale, 43; instr. soc. sci, Chicago, 45-46, asst. prof. econ, 46-47; assoc. prof, Carnegie Inst. Tech, 47-48; soc. sci, CHICAGO, 48-53, PROF. SOC. SCI. & ECON, 53- Fel, Center Adv. Study Behav. Sci, Calif, 55-56. Consult, UNESCO, 52-53; govt. & ministry of health, India, 57-58. Ed, Econ. Develop. & Cultural Change, 53-61, 65- Econ. Asn; Econ. Hist. Asn; Royal Econ. Soc; Econ. Hist. Soc, Brit. Economic growth and history; history of economic thought. Publ: Ed, Encyclopedia of social sciences; auth, Sociological aspects of economic growth, Free Press, 61. Address: 5318 Hyde Park Blvd, Chicago, Ill. 60615.

HOSHIKO, PROF. MICHAEL S, b. Surrey, B.C; Nat. SPEECH PATHOLOGY, PSYCHOLOGY. A.B, Heidelberg Col, 48; Kansas, 49-50; A.M, Bowling Green State, 49; Res. Found. fel, Purdue, 55-56, Ph.D, 57. Asst. instr. psychol, Kansas, 49-50; clin. asst, Ill. State Norm. Univ, 50-51; sch. psychologist, prep. sch, Can, 51-52; res. psychologist, med. sch, Toronto, 52-55; clin. asst. speech correction, Purdue, 56-57; asst. prof, SPEECH PATH. & AUDIOL, SOUTHERN ILLINOIS, 57-64, assoc. prof, 64-67, PROF, 67-, SPEECH PATHOLOGIST, CLIN. CENTER, 57- Res. grants, psychiat. res. & training authority, Ill. State Dept. Ment. Health, 61-63, Nat. Inst. Neurol. Diseases & Blindness, 61-66; Ill. div, Am. Cancer Soc, 63-66; Nat. Insts. Health spec. fel, Hopkins, 66-67. Am. Psychol. Asn; Can. Psychol. Asn; Acoustical Soc; Inst. Elec. & Electronics Eng. Radio telemetry of physiological and acoustical data during speech; radio frequency audiometry, perception of sound modulated radio frequency; speech science and experimental phonetics respiratory physiology. Publ: Sequence of action of breathing muscles during speech; Electromyographic investigation of respiratory muscles in relation to syllabication; Electromyographic investigation of the function of the internal and external intercostal muscles during phonation. Address: Dept. of Speech Pathology & Audiology, Southern Illinois University, Carbondale, Ill. 62901.

HOSKEN, WILLIAM E(DWARD), Econ, see 10th ed, Soc. & Behav. Vols.

HOSKIN, DR. GARY WILLIAM, b. Bloomfield, Iowa, Dec. 20, 38. POLITICAL SCIENCE. B.A, Drake, 60; Woodrow Wilson fel. & M.A, Hopkins, 62; Nat. Defense Ed. Act fel. & Ph.D.(polit. sci), Illinois, 67. ASST. PROF. POLIT. SCI, STATE UNIV. N.Y. BUFFALO, 65-, res. grant, 68-69. Polit. Sci. Asn; Latin Am. Studies Asn. Political party behavior in Colombia and Venezuela; community power study of San Cristóbal, Venezuela. Publ: Power structure in a Venezuelan town: the case of San Cristóbal, Int. J. Comp. Sociol, Vol. 9, No. 3 & 4; Value patterns and politics in a Venezuelan city, Buffalo Studies, (in press). Address: Dept. of Political Science, State University of New York at Buffalo, 4238 Ridge Lea, Amherst, N.Y. 14226.

HOSKINS, DR. HALFORD L(ANCASTER), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 67.

HOSKINS, PROF. JOHN W(ILLARD), b. Pineville, Ky, Mar. 12, 17. SOCIOLOGY. A.B, Georgetown Col, 39; A.M, Peabody Col, 40; Ph.D, Indiana, 50. Instr. hist, Georgetown Col, 45-46; assoc. prof. SOCIOL, Furman, 49-54, prof. & chmn. dept, 54-60; Peabody Col, 60-63; PROF, Houston Baptist Col, 63-65; Fla. South. Col, 65-66; FURMAN, 66- U.S.N.R, 42-45, Lt. Sociol. Asn; Asn. Marriage Counsr; Nat. Coun. Family Rels. Differential achievement of the socioeconomic classes; marriage and family relationships. Address: Dept. of Sociology, Furman University, Greenville, S.C. 29613.

HOSLETT, DEAN S(CHUYLER) D(EAN), b. Sturgeon Bay, Wis, June 3, 18. BUSINESS & PUBLIC ADMINISTRATION. A.B, Park Col, 40; A.M, Ohio State, 42, univ. fel. & Ph.D, 49; Littauer fel. & M.P.A, Harvard, 46. From asst. prof. to assoc. prof. admin. & asst. dean, sch. bus. & pub. admin, Cornell, 48-51; assoc. prof, founder & dir. exec. prog. bus. admin, Columbia, 54; exec. asst. to pres. in charge orgn. develop, Reuben H. Donnelley Corp, 55, asst. to chmn. in charge orgn. develop. & employee & pub. rels, 56-57, v.pres, 57-60; Dun & Bradstreet, Inc, 60-63; DEAN COL. BUS. ADMIN, HAWAII, 63- Consult, Nigerian Inst. Mgt. & Admin, Ford Found, 61. Soc. Pub. Admin; Mgt. Asn. Management development; human relations. Publ: Human factors in management; Army depot administration. Address: University of Hawaii, 2500 Campus Rd, Honolulu, Hawaii 96822.

HOSLEY, DR. EDWARD HOWARD, b. Oakland, Calif, Nov. 12, 30; m. 58. ANTHROPOLOGY. B.A, California, Berkeley, 56, M.A, Los Angeles, 62, Nat. Sci. Found. fel, 62-63, univ. fel, 63-64, Ph.D.(anthrop), 65. Instr. ANTHROP, El Camino Col, 64-65; asst. prof, Calif. State Col. Fullerton, 65-66; Alaska, 66-68; ASSOC. PROF, EAST. ORE. COL, 68- Prin. investr. U.S. Army Corps Engrs. archeol. & erosion study, Point Hope, Alaska, 67. Summers, Am. Philos. Soc. grant-in-aid, 66, Nat. Endowment Humanities fel, 67, prin. investr. campus site excavations, Nat. Mus. Can, 67. U.S.A, 52-54. Fel. Anthrop. Asn; Ethnol. Soc; Soc. Am. Archaeol. Ethnography, ethnology, social anthropology, culture change and prehistory of North America and the subarctic. Publ: The McGrath Ingalik, Anthrop. Papers Univ. Alaska, 61; Folklore and ritual in ethnology, In: Culture change and stability, Univ. California, 64; The Kolchan, Arctic, 68. Address: Dept. of Anthropology, Eastern Oregon College, La Grande, Ore. 97850.

HOSMER, DR. CLARK L(EWIS), U.S.A.F, b. Dunseith, N.Dak, Apr. 25, 14; m. 36; c. 3. MANAGEMENT & RESEARCH PSYCHOLOGY. B.S, U.S. Mil. Acad, 36; M.S, Calif. Inst. Tech, 40; M.A, Minnesota, 47, Ph.D, 56. U.S. AIR FORCE, 32-, comdr, Human Resources Res. Center, 51-52, mem. staff, manpower planning, Supreme Hq. Allied Powers Europe, Paris, France, 52-54, faculty adv, Indust. Col. Armed Forces, 55-57, comdr. tech. sch, Lackland Air Force Base, 57-62, assoc. prof. BUS, FLA. STATE, 62-64, PROF. & DIR. GRAD. CENTER, 64- Res. grant, res. coun, Fla. State, 63-64. AAAS; Psychol. Asn; Acad. Polit. & Soc. Sci; Acad. Mgt. Improved definition of educational goals; development and validation of criterion measures of educational effectiveness; development and validation of programmed courses to attain defined and desired educational outcomes. Publ: Shorthand for defense planning, Mgt. Sci, 1/58; The up-to-date Mark Hopkins, The Torch, 10/61; Student feedback on classroom activities, Collegiate News & Views, 12/64. Address: Florida State University Graduate Center, Box 1918, Eglin Air Force Base, Fla. 32542.

HOSSE, PROF. H(ANS) A(UGUST), b. Essen, Germany, Jan. 3, 22; Can. citizen; m. 43; c. 1. GEOGRAPHY, POLITICAL SCIENCE. B.A, Manitoba, 54, M.A, 56; Ph.D.(planning), Ottawa (Ont), 62. Sr. planner, City of Ottawa, Ont, 57-62; proj. chief urban & regional planning, Orgn. Am. States, 62-64; chief adv, Econ. Cmn. Asia & Far East, UN, 64-66; PROF. POLIT. SCI. & GEOG, WESTERN ONTARIO, 66- Town Planning Inst. Can; Can. Asn. Geog. Urban and regional planning. Publ: Co-auth, Housing in Peru, 63 & Housing in Honduras, 64, Orgn. Am. States; auth, Ottawa's greenbelt, Can. Geogr, 61. Address: Dept. of Geography, University of Western Ontario, London, Ont, Can.

HOSSOM, PROF. H(AROLD) KENNETH, b. Long Beach, Calif, Apr. 6, 14; m. 47; c. 3. POLITICAL SCIENCE, ECONOMICS. A.B, Stanford, 36; M.F.S, Southern California, 38; Ph.D.(polit), Princeton, 42. Field exam, Nat. Labor Rels. Bd, 46-47; asst. prof. POLIT. SCI, Washington, Seattle, 47-50; Wittenberg Col, 50-54; PROF, EAST. WASH. STATE COL, 54- U.S. Off. Ed. res. grant, 67; summers, participant, bus. & ed. exchange, Aluminum Co. Am, 57, Danforth study grant, Stanford, 61. U.S.A, 43-46. Polit. Sci. Asn; Latin Am. Studies Asn. Comparative local government. Address: Dept. of Political Science, Eastern Washington State College, Cheney, Wash. 99004.

HOSTETLER, PROF. JOHN ANDREW, b. Belleville, Pa, Oct. 29, 18; m. 53; c. 3. CULTURAL ANTHROPOLOGY. B.S, Goshen Col, 49; M.S, Pa. State, 51, Ph.D.(rural sociol), 53. Book ed, Herald Press, 54-59; asst. prof. sociol, Alberta, 59-62; Pa. State, 62-65; assoc. prof. ANTHROP. & SOCIOL, TEMPLE, 65-66, PROF, 67- Fulbright scholar, Heidelberg, 53-54; instr, exten. serv, Pa. State & Uniontown Hosp. Sch. Nursing, 57-59; collab, res. proj, Mich. State Univ, 57-; summer lectr, Western Michigan, 58; mem. res. planning group, Cornell, 61. Sociol. Asn; Anthrop. Asn; Soc. Appl. Anthrop; Rural Sociol. Soc. Ethnic cultures in Latin America, United States and Canada; maintenance and change patterns in the Amish, Mennonite and Hutterite ethnic societies. Publ: Sociology of Mennonite evangelism; Amish society, Johns Hopkins, 63; The Hutterites in North America, Holt, 67. Address: Dept. of Anthropology, Temple University, Philadelphia, Pa. 19122.

HOSTETLER, L(ISTER) MERLE, b. Walnut Creek, Ohio, Nov. 9, 01; m. 27; c. 2. ECONOMICS, FINANCE. A.B, Western Reserve, 24, M.B.A, 40. Lectr. econ, Col. of Wooster, 36-42; economist, Fed. Reserve Bank, 43-46, mgr. res. dept, 46-53, dir. res, 53-56, v.pres, 56-62; V.PRES. & ECONOMIST, UNION COMMERCE BANK, 62- Lectr, Western Reserve, 34-51. Econ. Asn; Finance Asn. Monetary and credit policy; fiscal policy and debt management; business cycle analysis; balance of payments problems. Publ: Seventy five years of American finance. Address: Union Commerce Bank, P.O. Box 5876, Cleveland, Ohio 44101.

HOSTLER, DR. CHARLES WARREN, b. Chicago, Ill, Dec. 12, 19; wid; c. 1. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, California, Los Angeles, 42; Bucharest, 45-47; M.A, Georgetown, 50, Ph.D.(polit. sci), 55; M.A, American Univ. Beirut, 54. Adj. prof, sch. int. serv, American Univ, 55-63; dir. int. opers, Douglas Aircraft Corp, France & Lebanon, 63-66, MGR. ENVIRON. ANAL, MISSILE & SPACE SYSTS. DIV, McDONNELL-DOUGLAS CORP, 66- U.S.A.F, 42-63, Col. Mid. East Inst. Middle Eastern studies; environmental analysis. Publ: Turkism and the Soviets, Praeger & Allen & Unwin, 57; co-auth, Challenge of science education, Philos. Library, 59. Address: McDonnell Douglas Corp, Huntington Beach, Calif. 92646.

HOTALING, PROF. EUGENE, b. Minneapolis, Minn, May 15, 08; m. 46. PSYCHOLOGY, EDUCATION. B.A. & M.A, North Texas State, 37; M.A, N.Y. Univ, 41; cert, U.S. Army Command & Gen. Staff Col, 46; Ed.D.(guid, counseling), Indiana, 53. Coordinator testing & guid, N.Y. Univ, 37-41; lectr. & consult, Gen. Serv. Admin. Inst, D.C, 65; PROF. ED. PSYCHOL, VALLEY CITY STATE COL, N.DAK, 65- U.S. Army, 41-63, Col. Psychol. Asn; Personnel & Guid. Asn. Rehabilitation of the handicapped; education of exceptional children; mental health; group counseling. Publ: Ed, Directors manual on professional fund raising, 54, Fund raising in small churches, 55 & Wells way, 55, privately pub. Address: 2032 Belmont Rd, N.W, Washington, D.C. 20009.

HOTCHKISS, HERVEY D(EVOLZO), Finance, see 10th ed, Soc. & Behav. Vols.

HOTCHKISS, DR. JOHN C, b. Sacramento, Calif, May 17, 30; m. 62; c. 3. ANTHROPOLOGY. B.A, Reed Col, 56; M.A, Chicago, 60, Nat. Inst. Ment. Health fel. & Ph.D.(anthrop), 68. Instr. ANTHROP, Washington (St. Louis), 62-63; ASST. PROF, STANFORD, 63- Sig.C, U.S.A, 53-55. Anthrop. Asn; Ethnol. Soc; Ling. Soc. Am. Social institutions of rural peasant societies of Middle America, especially Mexico. Publ: Studies in Language and culture in Chiapas, Mexico, Proc. Am. Ethnol. Soc, 63; Children and conduct in a Ladino community in Chiapas, Mexico, Am. Anthropologist, 67. Address: Dept. of Anthropology, Stanford University, Stanford, Calif. 94305.

HOTCHKISS, DR. SANFORD N(ORMAN), b. Johnstown, Pa, Sept. 26, 23; m. 54; c. 2. PSYCHOLOGY. M.A, Minnesota, 50, Ph.D, 59. Asst. prof. psychol, Iowa State Col, 53-54; Kans. State Col, 54-55; res. specialist, Perceptual Develop. Labs, 55-57; consult. psychologist, Psychol. Serv. Pittsburgh, 57-61; mgr, mgt. serv. div, Ernst & Ernst, 61-65; asst. pres, Natural Sci. Mus, 65-67; PROF. PSYCHOL. & CHMN. DEPT, YOUNGSTOWN STATE, 68- U.S.A, 44-46. Psychol. Asn. Industrial and personnel psychology. Address: 213 Mayflower Dr, Boardman, Ohio 44512.

HOTELLING, PROF. HAROLD, Math. Statist, see 11th ed, Phys. & Biol. Vols.

HOTSON, DR. JOHN HARGROVE, b. Minneapolis, Minn, Jan 25, 30; m. 54; c. 5. ECONOMICS. B.A, Colo. Col, 52; Nebraska, 52; M.A, Pennsylvania, 57, Ph.D.(econ), 64. Asst. exam, Fed. Reserve Bd, Wash, D.C, 53-56; instr. ECON, Wilkes Col, 57-60; instr, Pennsylvania, 61-63; instr, Phila. Col. Pharm, 62-63; ASST. PROF, COLO. COL, 63- Consult, Econ. Coun. Can, summer 66. Am. Econ. Asn. Aggregate income, distribution and price level theory; economic development; comparative economic systems. Publ: International comparisons of money velocity and wage mark-ups, Augustus Kelley, 68; The constancy of the wage share: the Canadian experience, Rev. Econ. & Statist, 2/63; Neo-orthodox Keynesianism and the 45° heresy, Nebr. J. Bus. & Econ, fall 67. Address: Dept. of Economics, Colorado College, Colorado Springs, Colo. 80903.

HOTTEL, DR. ALTHEA (KRATZ), b. Lansdale, Pa, Oct. 16, 07; m. 41. SOCIOLOGY. B.S, Pennsylvania, 29, A.M, 34, Bennett fel, 34-35, Ph.D.(sociol), 40; hon. degrees from 11 U.S. insts. Teacher, DuPont High Sch, Wilmington, Del, 29-30; mem. staff, soc. serv. dept, Grad. Hosp, Pennsylvania, 30-33, lectr. sociol. & dean women, 36-59; prof. ed. & dean instr, Queens Col.(N.C), 35-36; pres, Am. Asn. Univ. Women, 47-51, mem. ed. found, 59-62; mem. women's adv. cmt. manpower, U.S. Secy. Labor, 51-54; U.S. rep, UN Soc. Cmn, 55-61; chmn. cmt. standards, Int. Fedn. Univ. Women, 56-62, v.pres, 62-65, pres, 65-68. Sociol. Asn; Nat. Asn. Women Deans & Counsr. Effects of rapid social change on the roles of women and the implications for education. Publ: How fare American women?; Prosecutions and treatment of women offenders and the economic crisis, Philadelphia, 1925-1934. Address: 824 Gatemore Rd, Bryn Mawr, Pa. 19010.

HOTTENSTEIN, DR. MICHAEL P, b. Lebanon, Pa, Oct. 20, 36; m. 59; c. 3. MANAGEMENT SCIENCE. B.S, Lebanon Valley Col, 58; M.S, Pa. State, 60; D.B.A, Indiana, 64. Teaching assoc. prod, Indiana, 60-63; asst. prof. MGT, PA. STATE, 63-66, ASSOC. PROF, 66- Found. Econ. Ed. summer fel. bus, 66; Am. Prod. & Inventory Control Soc. res. grant, 67-68. Consult, Radio Corp. Am, 61-63. Acad. Mgt.(co-ed, Ann. Proc, 66 & 67). Computer simulation study of the effects of expediting on measures of performance in a job shop; experimental study of the effects of uncertain information on search and decision making behavior. Publ: Models and analysis for production management, 68 & co-auth, PROSIM: a production management simulation, Int. Pub, 68, co-auth, Research toward the development of management thought, In: 1966 Ann. Proc. Acad. Mgt, 67. Address: Dept. of Management, Pennsylvania State University, University Park, Pa. 16802.

HOTZ, PROF. ALFRED J(ULIUS), b. Quincy, Ill, Nov. 11, 09; m. 36; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B, Heidelberg Col, 32; M.A, Ohio State, 35; Rosenwald fel, Chicago, 45-48, Ph.D.(polit. sci), 48. Teacher & athletic coach, pub. schs, Ohio, 35-45, dir. recreation, 43-44; instr. polit. sci, Chicago, 47-48; asst. prof, Triple Cities Col, Syracuse, 48-49; assoc. prof, Western Reserve, 49-51, prof, 51-62, chmn. dept, 51-56; PROF. HIST, AUGUSTANA COL.(S.DAK), 62- Lectr, Salsburg, Austria, 53, 56. Consult, for. policy res. inst, Pennsylvania, 57-58; Ed. Res. Coun. Cleveland, 61. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Soc. Int. Law. Publ: NATO: myth or reality & UN: reappraisal since 1945, Ann. Am. Acad. Polit. & Soc. Sci; Political implications of German rearmament. Address: Dept. of History, Augustana College, Sioux Falls, S.Dak. 57102.

HOU, PROF. CHI-MING, b. Hopei, China, Dec. 3, 24; nat; m. 53; c. 2. ECONOMICS. LL.B, Fu Jen Univ, China, 45; M.A, Oregon, 49; Kazanjian Econ. Found. scholar, Columbia, 50, Ph.D, 54. Asst. econ, Fu Jen Univ, China, 45-47; lectr. Chinese, Columbia, 49-50; instr. ECON, Lafayette Col, 53; Hobart & William Smith Cols, 53-54, asst. prof, 54-56, COLGATE, 56-61, assoc. prof, 61-64, prof, 64-68, CHARLES A. DANA PROF, 68- Ford Found. regional faculty res. fel, 58; univ. res. fel, Harvard, 58; Brookings res. prof, 65-66. Econ. Asn; Asn. Asian Studies. Economic development of China; international capital movement. Publ: Foreign investment and economic development in China, Harvard, 65; Employment and unemployment in Communist China, In: Economic trends in Communist China, 67; Sources of agricultural growth in Communist China, J. Asian Studies, 8/68. Address: Dept. of Economics, Colgate University, Hamilton, N.Y. 13346.

HOUCK, DR. JAMES P, JR, b. Pittsburgh, Pa, Jan. 8, 36; m. 62; c. 1. AGRICULTURAL ECONOMICS. B.S, Pa. State, 57, M.S, 59; Ph.D.(agr. econ), Minnesota, 63. Asst. prof. agr. econ, Pa. State, 63-64; vis. asst. prof. bus. res, Harvard Bus. Sch, 64-65; ASST. PROF. AGR. ECON, MINNESOTA, ST. PAUL, 65-67, ASSOC. PROF, 67- Pawlett vis. scholar, Sydney, 67. Consult, U.S.Dept. Agr, 67- Agr. Econ. Asn; Econ. Asn; Int. Asn. Agr. Econ. Agricultural price analysis; agricultural policy; international trade and commercial policy. Address: Dept. of Agricultural Economics, University of Minnesota, St. Paul, Minn. 55101.

HOUGH, DR. FRANKLIN SCOTT, b. Pisgah, Iowa, Jan. 14, 40; m. 62; c. 1. ECONOMICS. B.S, Missouri, Columbia, 61, Nat. Defense Ed. Act fel, 61-66, Ph.D.(econ, agr. econ), 66. Asst. prof. ECON, GRACELAND COL, 65-66, ASSOC. PROF, 67-, CHMN. DIV. SOC. SCI, 66- Agr. Econ. Asn; Econ. Asn. Agricultural economics, especially regional agricultural economics. Publ: Farm corporations, Dept. Agr. Econ, Univ. Missouri, 65; Employment trends and potential of state economic area 2b in northeast Missouri, Univ. Missouri, 66. Address: R.F.D. 2, Lamoni, Iowa 50140.

HOUGH, PROF. JERRY FINCHER, b. Salina, Kans, Apr. 26, 35; m. 56; c. 2. POLITICAL SCIENCE. A.B, Harvard, 55, A.M, 57, fel, 59-61, Ph.D, 61. From asst. prof. to ASSOC. PROF. POLIT. SCI, ILLINOIS, 61- Polit. Sci. Asn; Asn. Adv. Slavic Studies. Structure and functioning of soviet political institutions, particularly the relation of party and state; implications of soviet experience for American administrative theory. Address: Dept. of Political Science, University of Illinois, 311 E. Lincoln Hall, Champaign, Ill. 61801.

HOUGH, PROF. LOUIS, b. Oakland City, Ind, Feb. 3, 14. BUSINESS ECONOMICS. A.B, Chicago, 36, A.M, 42, scholar. & Ph.D.(statist), 53. Assoc. prof. econ, Miami (Ohio), 42-46; Denver, 46-48; statist, Pittsburgh, 48-54; prof. econ. & chmn. dept, Toledo, 54-59; sr. res. economist, Dunlap & Assocs, Conn, 59-60; DIR. BUR. BUS. RES, SCH. BUS, WAYNE STATE, 60-, PROF. BUS. ADMIN, 65- Statistical methods; business decision making; macroeconomics. Publ: Price level in macroeconomic models, Am. Econ. Rev; Asset influence in the labor market, J. Polit. Econ; Causes of the next depression, Commerce & Finance Chronicle. Address: Bureau of Business Research, Wayne State University, Detroit, Mich. 48202.

HOUGH, DR. RICHARD F(AIRCHILD), b. Warren, Pa, Aug. 26, 30; m. 57; c. 1. GEOGRAPHY. A.B, Syracuse, 52, M.A, 57; Ph.D.(geog), Wisconsin, 63. Instr. GEOG, Wis. State Col. La Crosse, 62-63; asst. prof, SAN FRANCISCO STATE COL, 63-67, ASSOC. PROF, 67- Asn. Am. Geogr. grant, Nat. Sci. Found. High Sch. Geog. Proj, 66-67. U.S.A, 52-55, Sgt. Asn. Am. Geog; Am. Geog. Soc; Asn. Asian Studies. Geography of Japan, especially changes attending the decline in the raw silk industry; development of improved instructional materials for teaching high school geography. Publ: Co-auth, Culture change-(for the high school geography project), Macmillan, 68; auth, Impact of the decline in raw silk on the Suwan Basin of Japan, Econ. Geog, 4/68; Impact of the decline in raw silk on two major cocoon-producing regions in Japan, Ann. Asn. Am. Geogr, 6/68. Address: Dept. of Geography, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

HOUGH, DR. ROBBIN R, b. Seattle, Wash, Apr. 20, 33; m. 59; c. 3. ECONOMICS. B.A, Montana, 58; Ryman Mem. fel, 58-62; Hicks fel, 60-61; Ph.D.(econ), Mass. Inst. Tech, 62. Teaching asst. ECON, Mass. Inst. Tech, 60-61, instr, 61-62; asst. prof, OAKLAND, 62-66, ASSOC. PROF. & CHMN. DEPT, 66-, acting chmn, 64-66. Prin. investr, Off. Econ. Opportunity Info. Retrieval Proj. for Oakland County, Mich, 65-66; Bur. Labor Statist-Mich. Employ. Security Cmn, 66-67; Off. Ed. res. grant, 67. Consult. econ. & statist, 64-; Chrysler Corp, 66-; Exec. Off. of President, 67- U.S.A, 54-56. Econ. Asn; Statist. Asn. Micro-economic theory; methodology of econometrics; theory of general systems, and information retrieval theory as related to improved models of institutional behavior. Publ: Casualty rates and the war on poverty, Proc. Am. Econ. Asn, 68. Address: Dept. of Economics, Oakland University, Rochester, Mich. 48063.

HOUGHTELING, PROF. JAMES L(AWRENCE), JR, Econ, see 10th ed, Soc. & Behav. Vols.

HOUGHTON, PROF. N(EAL) D(OYLE), b. Mo, May 8, 95. POLITICAL SCIENCE. B.S, Mo. State Teachers Col, 21; A.M, Missouri, 23; Carnegie fel, Illinois, 26-27, Ph.D, 27. Teacher, soc. sci, Mo. State Teachers Col, 25-28; PROF. POLIT. SCI, ARIZONA, 28- Vis. prof, Saskatchewan, 65-66. Polit. Sci. Asn; Am. Soc. Int. Law. Recognition in international law. Publ: Struggle against history: American foreign policy in an age of revolution, Washington Square, 68; Perspective for foreign policy objectives, 63 & Historical bases for prediction in international relations, 64, West. Polit. Quart. Address: Dept. of Political Science, University of Arizona, Tucson, Ariz. 85721.

HOUK, DR. HOWARD J(ACOB), b. Lafayette, Ind, Oct. 13, 12; m. 41; c. 4. AGRICULTURAL ECONOMICS, STATISTICS. B.S.A, Purdue, 35, M.S.A, 37, Ph.D, 42. County supvr. credit, U.S. Dept. Agr, 37-39, commodity analyst price, 41-42; econ. res. dept, Armour & Co, 46-51, asst. mgr. econ. res, 51-58, by-prod. sales, 58-59, gen. mgr. leather prod. sales, 59-61, analyst livestock & poultry, econ. res. dept, 61-62; PRES, HOWARD HOUK ASSOC, 63- Mem, poultry res. cmt, U.S. Dept. Agr, 56-59. Med.Admin.C, U.S.A, 42-46, 2nd Lt. Agr. Econ. Asn; Statist. Asn; Econ. Asn. Agricultural economics in area of price analysis; business, production and plant analysis; finance, including costs, pricing and inventory control. Publ: Types of farming in Indiana & Century of Indian farm prices, Purdue Res. Bull. Address: Howard Houk Associates, 120 S. LaSalle St, Chicago, Ill. 60603.

HOUK, PROF. JOHN L(OUIS), b. Albuquerque, N.Mex, July 22, 20; m. 49; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Southern California, 48, M.F.S, 55, Ph.D.(polit. sci), 66. Analyst Far East. affairs, Legis. Reference Serv, Library Cong, 50-53; lectr. hist. & int. rels, Southern California, 53-57; assoc. prof. & sr. res. scientist, center for res. soc. systs, American Univ, 57-67; PROF. POLIT. SCI. & DEAN SCH. ARTS & SCI, COL. OF GUAM, 67- U.S.A.A.F, 42-45, T/Sgt. Polit. Sci. Asn. Congress and foreign policy; psychological operations; counter insurgent warfare; relations between states. Publ: Co-auth, Tensions within the Soviet Union, U.S. Senate, 51; The Soviet propaganda program, U.S. Congress, 51; auth, Working with peoples in developing areas, Center Res. Soc. Systs, American Univ, 65. Address: Office of the Dean, School of Arts & Sciences, College of Guam, P.O. Box EK, Agana, Guam 96910.

HOULT, PROF. THOMAS FORD, b. Mich, June 6, 20; m. 46; c. 2. SOCIOLOGY. Ph.D.(sociol), Southern California, 51. Asst. prof. SOCIOL, Ind. Cent. Col, 49-51; Eastern New Mexico, 51-53; from asst. prof. to assoc. prof, Wayne State, 53-64; PROF. & CHMN. DEPT, ARIZONA STATE, 64- Res. grant, 60-61. Mem. community health res. training grants cmt, U.S. Dept. Health, Ed. & Welfare, 66-67. U.S.A, 42-46. Sociol. Asn. Social problems; political sociology. Publ: Co-ed, Readings in sociology; Sociology of religion; Dictionary of modern sociology, Littlefield, 69. Address: Dept. of Sociology, Arizona State University, Tempe, Ariz. 85281.

HOUN, DR. FRANKLIN W(U), b. Pao-tow City, China, Apr. 10, 20; nat; m. 53; c. 2. POLITICAL SCIENCE. A.B, Nat. Chengchi Univ, 46; grant & A.M, Denver, 50; grant & Ph.D, Wisconsin, 53. Assoc. ed, Govt. Gazette, Presidential Off, Repub. China, 46-47, admin. secy, 47-48; mem. res. staff, Stanford, 55-57; asst. prof. polit. sci, Mich. State, 57-59; assoc. prof, Dubuque, 59-60; Nebraska, 60-63; GOVT, MASSACHUSETTS, 63-68, PROF, 68- Press liaison secy, secretariat, Nat. Assembly China, 47-48; res. assoc, Hoover Inst, Stanford, 65-66. Polit. Sci. Asn; Asn. Asian Studies. Chinese politics and foreign policy; international relations; comparative politics. Publ: To change a nation: propaganda and indoctrination in Communist China; Chinese political traditions, Pub. Affairs, 65; A short history of Chinese Communism, Prentice-Hall, 67. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

HOUNSHELL, DEAN CHARLES D(AVID), b. Va, Dec. 19, 20; m. 44; c. 3. POLITICAL SCIENCE. A.B, Emory & Henry Col, 42; Ph.D.(polit. sci), Virginia, 50. Asst. prof. polit. sci, Emory, 50-55, assoc. prof, 55-66, mem. faculty, grad, inst. lib. arts, 52-60, assoc. dean, col. arts & sci, 60-66; PROF. POLIT. SCI. & DEAN NEWCOMB COL, TULANE, 66- Fund for Adv. Ed. faculty fel, 53-54. U.S.N, 42-45, Res, 45-65, Capt. Polit. Sci. Asn. Role of legislatures in foreign policy making; relationship between international organizations and international politics. Publ: The legislative process in Virginia. Address: Newcomb College, Tulane University, New Orleans, La. 70118.

HOUNTRAS, PROF. PETER TIMOTHY, b. Memphis, Tenn, Dec. 7, 27; m; c. 2. COUNSELING, EDUCATIONAL PSYCHOLOGY. B.Sci, Toledo, 46; Ohio State, 47-48; A.M, Michigan, 51, Ph.D, 55. Instr. ed. psychol, Michigan, 54-57; asst. prof. psychol. & ed, Pittsburgh, 57-59, assoc. prof. guid. & counseling, 59-61; counseling & ed. psychol, Northwestern, 61-66; PROF. COUNSELING & GUID. & CHMN. DEPT, NORTH DAKOTA, 66- Regional counseling consult, bur. employment security, U.S. Dept. Labor, 67-; consult, Off. Ed, Dept. Health, Ed. & Welfare, 67- Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. Educational psychology; counseling theory and practice; learning theory. Publ: Mental hygiene: a text of readings; Use of the Miller analogies test in predicting graduate student achievement, Col. & Univ; Anxiety, authoritarianism and student attitudes toward departmental control of college instruction, J. Ed. Psychol. Address: Dept. of Counseling & Guidance, University of North Dakota, Grand Forks, N.Dak. 58201.

HOURTOULE, DR. GILBERT O(TTO), b. Newark, N.J, June 25, 24. POLITICAL SCIENCE. A.B, Montclair State Col, 47; M.A, Stanford, 48; Ph.D.(polit. sci), Pa. State, 53. Asst. govt, Pa. State, 51-53; asst. prof, Lafayette Col, 53-61, asst. dean, 58-61; ASSOC. PROF. POLIT. SCI, MONTCLAIR STATE COL, 61- Consult, Cmn. Govt. Security, 56. U.S.A.A.F, 43-46, 2nd Lt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci: Acad. Polit. Sci. American government; international organization and relations. Publ: Commentary on security checks for United Nations personnel; United Nations case against Franco Spain: in retrospect, Soc. Sci; Student apathy: a national epidemic, Col. & Univ. Address: Dept. of Social Sciences, Montclair State College, Upper Montclair, N.J. 07043.

HOUSE, PROF. ARTHUR S(TEPHEN), Speech, Exp. Phonetics, see 11th ed, Phys. & Biol. Vols.

HOUSE, DR. FLOYD N(ELSON), b. St. Johns, Mich, Jan. 17, 93. SOCIOLOGY. A.B, Colorado, 18, A.M, 19; Ph.D, Chicago, 24. Prof. econ. & sociol, Ottawa (Kans), 19-22; asst. sociol, Chicago, 22-23; asst. prof, 25-26; prof. econ. & sociol, Middlebury Col, 23-25; chmn. dept. SOCIOL, VIRGINIA, 26-59, prof, 26-63, EMER. PROF, 63- Sociol. Asn; Sociol. Res. Asn. Theory and history of sociology. Publ: Range of social theory; Development of sociology. Address: Ivy, Va. 22945.

HOUSE, PROF. RAY S, b. Martin, Tenn, Dec. 11, 27; m. 55; c. 1. BUSINESS ADMINISTRATION, MARKETING. B.S, Union (Tenn), 50; M.B.A, Mississippi, 61, Ph.D.(bus. admin), 66. Assoc. prof. MKT, MEMPHIS STATE, 63-68, PROF, 68- Nat. Guard, 48-60, 2nd Lt. Mkt. Asn. Wholesale trade area studies; physical distribution and logistics analysis; distribution cost analysis. Publ: Changes in wholesaling in Memphis, Shelby County, Tennessee 1948-1963, Bus. Rev, Memphis State Univ, 67. Address: Dept. of Marketing, Memphis State University, Southern Ave, Memphis, Tenn. 38101.

HOUSE, DR. ROBERT FRANK, b. Tulsa, Okla, Jan. 4, 31; m. 57; c. 4. PSYCHOLOGY. B.A, Kansas, 57, M.A, 58; Ph.D.(psychol), Michigan, 63. Fel, ment. health res. inst, Michigan, 63-65, asst. res. psychologist, 63-66, assoc. res. psychologist, 66-67; ASSOC. PROF. PSYCHOL, CLEVELAND STATE, 67- Consult, Upjohn Co, 65-67. U.S.A.F, 52-56, 1st Lt. Psychol. Asn. General systems behavior theory; effects of information overload on several levels of living systems; behavioral pharmacology; testing drugs for behavioral toxicity and efficacy. Publ: Co-auth, Extinction performance following discrimination training, J. Exp. Psychol, 63 & Effects of magnesium pemoline and dextroamphetamine on human learning, Science, 67. Address: Dept. of Psychology, Cleveland State University, Cleveland, Ohio 44115.

HOUSEHOLDER, DR. WILLIAM ALLEN, Agr, see 11th ed, Phys. & Biol. Vols.

HOUSER, DR. LEAH GENIVIEVE, b. Shiawassee Co, Mich, May 17, 04; m. 42. SOCIOLOGY, SOCIAL WORK. A.B, Mich. State, 33, cert. ed, 33, M.A, 38, cert. soc. work, 45, Ph.D.(sociol, anthrop), 56. Case worker, Ingham County Emergency Relief Admin, 34-48, case work supvr, 38, res. asst. pub. welfare, 38-39, case worker, Ingham County Bur. Soc. Aid, Mich. Dept. Soc. Welfare, 39-41, case work supvr, 41-42, supvr, 42-43; personnel officer, Mich. Dept. Soc. Welfare, 43-44; statistician, 44-46; instr. sociol, Maryland, 46-49, EARLY CHILDHOOD ED, KENT STATE, 58-64, ASST. PROF, 64-, summers, prog. supvr, head start teacher orientation prog, 65, dir, 66, 67. Sociol. Asn; Acad. Cert. Soc. Workers; Nat. Asn. Soc. Workers; Nat. Coun. Family Rels. Culturally deprived children; aspects of reference group theory in a study of prejudice; welfare organization and practice. Publ: Co-auth, Quantitative differentials among urban and rural peoples In: Dynamic urban sociology, Stackpole, 54; Some consequences of selected child rearing patterns in a contractual society, Inter-Instnl. Seminar Child Develop, Collected Papers, 65; Race relations and our welfare heritage, Great Contemporary Issues Lectr: Kent State Univ, 67. Address: 7460 State Route 43, Kent, Ohio 44240.

HOUSER, PROF. PAUL, b. Knoxville, Tenn, Nov. 10, 10; m. 42. SOCIOLOGY. A.B, Tennessee, 35, M.A, 36; Ph.D.(sociol), Mich. State, 48. Asst. SOCIOL, Mich. State, 39-41; asst. prof, Maryland, 46-49; PROF, KENT STATE, 49-U.S.A, 42-45. Sociol. Asn; Rural Sociol. Soc; Statist. Asn; Pop. Asn. Demography; rural and urban sociology; methodology. Publ: Co-auth, Rural reading habits, Bull. Univ. Md. Agr. Exp. Sta, Mortality differentials in Michigan, Spec. Bull. Mich. State Univ. Agr. Exp. Sta. & Quantitative differentials among urban and rural peoples, In: Dynamic urban sociology. Address: Dept. of Sociology, Kent State University, Kent, Ohio 44240.

HOUSTON, DR. ANDREW CRAIG, b. Worcester, Mass, Aug. 27, 29; m. 52; c. 3. ECONOMICS. B.A, Pa. State, 51, Ph.D, 62; dipl, Stockholm, Sweden, 52. Instr. ECON, DICKINSON COL, 56-59, asst. prof, 59-63, ASSOC. PROF, 63-, CHMN. DEPT, 66- Summer, econ. teachers prog. scholar, Chicago, 62. Econ. Asn. Swedish economic theory; monetary theory and policy; history of economic methodology. Address: R.D. 5, Carlisle, Pa. 17013.

HOUSTON, PROF. DAVID B, b. Philadelphia, Pa, Dec. 21, 30; m. 61; c. 3. ECONOMICS. B.S, Pennsylvania, 52, Ph.D.(Am. civilization), 59. Asst. prof. bus. admin, California, Los Angeles, 57-64; assoc. prof. ECON, Pa. State, 64-66; PROF, PITTSBURGH, 66- Econ. Asn; Regional Sci. Asn. Regional and urban economics; macroeconomics; risk theory. Address: Dept. of Economics, University of Pittsburgh, Pittsburgh, Pa. 15213.

HOUSTON, PROF. JOHN A(LBERT), b. Spokane, Wash, Dec. 24, 14; m. 39; c. 3. POLITICAL SCIENCE. A.B, Stanford, 36, M.A, 47; Ph.D, Michigan, 51. From asst. to assoc. prof. polit. sci, Mississippi, 49-54; assoc. prof. INT. RELS. & POLIT. SCI, KNOX COL, 54-57, prof, 57-61, PHILIP SIDNEY POST PROF, 61-, CHMN. DEPT, 54- U.S.N.R, 41-45, Lt. Comdr. Polit. Sci. Asn. International politics and organization; Latin American government and politics. Publ: Latin America and the United Nations; The United Nations and Spain, J. Polit. Address: Dept. of Political Science, Knox College, Galesburg, Ill. 61401.

HOUSTON, DR. JOHN P, b. New York, N.Y, June 17, 37; m. 61; c. 2. PSYCHOLOGY. B.A, Amherst Col, 59; Ph.D, Michigan, 63. ASST. PROF. PSYCHOL, CALIFORNIA, LOS ANGELES, 64- U.S. Pub. Health Serv. fel, California, Berkeley, 63. Human learning and retention. Publ: Verbal transfer and interlist similarities, Psychol. Rev, 64; First-list retention and time & method of recall, 66 & Proactive inhibition and competition at recall, 67, J. Exp. Psychol. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

HOUSTON, DR. LAWRENCE N, b. Philadelphia, Pa, Mar. 16, 28; m. 55; c. 2. PSYCHOLOGY. B.S, Howard, 51, M.S, 53; Ed.D.(psychol), Temple, 63. Caseworker, Phila. County Bd. Assistance, 53-55; social worker, Moyamensing Prison, Phila, 55-57; interviewer, Phila. Youth Study Center, 57-58; dir. psychol. serv, N.J. Reformatory, Annandale, 58-63; supt, Highfields Group Center, 63-65; ASST. PROF. PSYCHOL, TRENTON STATE COL, 65- Consult, N.J. State Home for Boys, Jamesburg, 58-63; Pa. Bur. Voc. Rehab, 64-67; Trenton, N.J. Bd. Ed, 67- U.S.A, 46-47; Biomed. Sci. C, U.S.A.F.R, 53-, Capt. Psychol. Asn. Group psychotherapy; crime and juvenile delinquency; vocational interests and aptitudes. Publ: Vocational interests and homosexual behavior of youthful offenders, J. Clin. Psychol, 4/65. Address: Dept. of Psychology, Trenton State College, Box 940, Trenton, N.J. 08625.

HOUSTON, DR. NEIL T(URPIN), b. Carrollton, Mo, July 19, 17; m. 44; c. 2. ECONOMICS. B.A, Washington & Lee, 39; A.M, Fletcher Sch. Law & Diplomacy, 41; M.A. & M.P.A, Harvard, 48, Ph.D.(econ), 49. Asst. prof. bus. admin, California, 48-50; economist, Island Trading Co. Micronesia, 50-53; SR. ECONOMIST, ECON. RES. DIV, STANFORD RES. INST, 53- U.S.N.R, 42-45, Comdr. Econ. Asn. Economics of water problems; agricultural development; regional economic development; inter-regional trade. Address: Economics Research Division, Stanford Research Institute, Menlo Park, Calif. 94025.

HOUSTON, DR. ROBERT C(HARLES), b. Oak Park, Ill, June 2, 21; m. 47; c. 5. PSYCHOLOGY. B.S, Northwestern, 46, M.A, 47; Ph.D.(psychol), Maryland, 50. Supvry. physiol. & exp. psychologist, pilot training res. lab, Goodfellow Air Force Base, Tex, 50-53; res. assoc. psychol, Illinois, 54-57; dir. planning & manning, AM. AIRLINES, INC, 57-66, DIR. FLIGHT TRAINING EQUIP-PROG. DEVELOP, 66- Consult, HumRRO, George Washington, 55-57; expert consult, personnel & training div, Fed. Aviation Agency, D.C, 63-64. U.S.N.R, 42-46, 53-54, Lt. Comdr. Psychol. Asn; Aerospace Med. Asn. Aviation psychology. Publ: Co-auth, Transfer of training in flight procedures from selected ground training devices to the aircraft; Training evaluation of an instrument panel homogeneous with respect to the principle of the moving part & Investigations of vertical display of altitude information I, II, III and IV. Address: American Airlines, Inc, Greater Southwest International Airport, Ft. Worth, Tex. 76125.

HOUTHAKKER, PROF. HENDRIK S(AMUEL), b. Amsterdam, Netherlands, Dec. 31, 24; m. 55; c. 3. ECONOMICS. Econ.Drs, Amsterdam, 49. Jr. res. worker, dept. appl. econ, Cambridge, 49-50, res. officer, 50-51; asst. prof, Cowles Cmn, Chicago, 52, vis. assoc. prof, 53; acting assoc. prof. ECON, Stanford, 54-55, assoc. prof, 55-57, PROF, 57-60; HARVARD, 60- Staff, Coun. Econ. Adv, 67-68. Consult, joint econ. cmt, U.S. Cong; U.S. Dept. Treas; Orgn. Am. States, 66. Econ. Asn.(John Bates Clark medal, 63); fel. Statist. Asn; fel. Economet. Soc.(v.pres, 66, pres, 67); Int. Asn. Res. Income & Wealth; Int. Statist. Inst. Econometrics; price theory; economic policy. Publ: Co-auth, Analysis of family budgets; Consumer demand in the U.S. 1929-1970, Harvard, 66; auth, Revealed preference and the utility function, Economica. Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

HOVDE, PROF. HOWARD T(HRUNE), b. Des Moines, Iowa, Nov. 24, 99; m. 25; c. 1. ECONOMICS, MARKETING. B.S, Pennsylvania, 22, Ph.D.(econ. psychol), 30. Mem. faculty, Wharton & grad. schs, Pennsylvania, 22-44; res. prof, grad. sch. bus. admin, Harvard, 44-45; head dept. mkt. & sales admin, Biarritz Am. Univ, France, 45-46; exec. dir, Wallpaper Wholesalers Asn, Pa, 47-52; v.pres. & consult, Economet. Inst, Inc. & v.pres. & secy, Econometr. Specialists, Inc, 52-58; v.pres. & treas, Coordinated Mkt-Mgt. Corp. & Mkt. Penetration Corp, 58-60; prof. MKT, Drexel Inst. Tech, 60-66; distinguished vis. prof, Kent State, 66-68; VIS. PROF, NORTHERN ILLINOIS, 68-JUNE 69. Lectr, Phila. Col. Pharm, 28; American Univ, 43; economist, U.S. Bur. For. & Domestic Commerce, 42-46; U.S. War Dept, 42-46; head planning & res, European off. for. liquidation, U.S. State Dept, 42-46; ed. dir, Seagram Distillers Corp, 48. Consult, 31- Spec. consult, Cmt. Econ. Develop, 42-46; mem. wholesale trade adv. cmt, U.S. Secy. Commerce, 48-52. U.S.A, 17-19. Econ. Asn; Mkt. Asn.(past pres); fel. Psychol. Asn; Asn. Bus. Econ. Industrial competition; long-range planning and forecasting. Publ: National advertising in newspapers; Marketing in our American economy & Wholesaling in our American economy, J. Am. Mkt. Asn. Address: 145 Barnegat Blvd, Beachwood, N.J. 08722.

HOVER, DR. GERALD LESLIE, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

HOVERLAND, DR. H. ARTHUR, b. Boston, Mass, May 13, 28; m. 64. BUSINESS ADMINISTRATION. B.S, Miami (Ohio), 51; M.S, Illinois, 54; Ph.D.(bus. admin), Michigan, 63. Auditor, Procter & Gamble Co, 51-53, cost engr, 54-55; asst. prof. MGT, San Jose State Col, 59-63; ASSOC. PROF, NAVAL POSTGRAD. SCH, 63- U.S.N, 46-48. AAAS; Am. Acct. Asn; Inst. Mgt. Sci; Am. Econ. Asn. Planning, programming and budgeting; behavior implications of control; management information systems. Publ: Co-auth, Attitudes toward risk, Stanford Res. Inst, 67, The effect of personality in a management game structured as a prisoner's dilemma, In: The psychology of management decision, 66 & Management and accounting concepts of control, Mgt. Acct, 6/67. Address: Dept. of Business Administration & Economics, Naval Postgraduate School, Monterey, Calif. 93940.

HOVEY, DR. HAROLD A(LLEN), b. Toledo, Ohio, Nov, 23, 38; m. 62; c. 2. ECONOMICS, POLITICAL SCIENCE. B.A, Wabash Col, 58; Woodrow Wilson fel, Harvard, 58-59; LL.B, George Washington, 64, Ph.D.(polit. sci, econ), 68. Exec. trainee, Off. Secy. Defense, 59-60, prog. analyst, 60-62 & 63-64; mgt. analyst, U.S. Bur. Budget, 62-63; staff mem. pub. policy res, Nat. Asn. Elec. Co, 65-67; SR. ECONOMIST, BATTELLE MEM. INST, 67- Polit. Sci. Asn; Econ. Asn. Military policy; planning-programming-budgeting; public sector economics. Publ: U.S. military assistance, 65 & Techniques for evaluating government programs, 68, Praeger. Address: 4509 Loos Circle W, Columbus, Ohio 43214.

HOVEY, DR. H(ENRY) BIRNET, b. Salt Lake City, Utah, Jan. 11, 03. PSYCHOLOGY, PHYSIOLOGY. B.S, Utah, 25; M.S, Oregon, 27; Ph.D.(psychol), California, 34. Asst. to warden, bur. prisons, U.S. Penitentiary Annex, Leavenworth, Kans, 31-32, U.S. Penitentiary, McNeil Island, Wash, 32-33; warden's asst. & supvr. classification, med. center, U.S. Dept. Justice, 33-44; sr. clin. psychologist, State Dept. Correction, Calif, 44-47; CLIN. PSYCHOLOGIST, VET. ADMIN. HOSP, 47- Dipl, Am. Bd. Exam. Prfnl. Psy-

chol. Fel. Psychol. Asn. Neurological disorders; psychopathology; personality. Address: Veterans Administration Hospital, Salt Lake City, Utah 84113.

HOVING, DR. KENNETH L, b. Lynden, Wash, Dec. 6, 34; m. 55; c. 2. PSYCHOLOGY. A.B, Calvin Col, 58; U.S. Pub. Health Serv. fel, Washington (Seattle), 58-59, M.S, 60, Ph.D.(psychol), 62. Asst. prof. PSYCHOL, KENT STATE, 63-67, ASSOC. PROF, 67- Nat. Inst. Ment. Health res. fel, inst. child develop, Univ. Minnesota, 62-63; co-investr. & Nat. Inst. Child Health & Human Develop. grant, 66-68. Psychol. Asn; Soc. Res. Child Develop. Developmental aspects of human learning and cognition. Publ: The influence of type of discrimination training on generalization, J. Exp. Psychol, 63; co-auth, Probability learning as a function of age and incentive, J. Exp. Child Psychol, 64 & Young children's yielding to false adult judgement, Child Develop, 65. Address: Dept. of Psychology, Kent State University, Kent, Ohio 44240.

HOVORKA, PROF. E(DWARD) J(OHN), b. Chicago, Ill, Apr. 24, 23; m. 49; c. 3. PSYCHOLOGY. B.A, Denison, 47; M.A, Indiana, 50, Ph.D, 52. Asst. prof. PSYCHOL, Tulane, 51-58; ASSOC. PROF. Denison, 58-63; STATE UNIV. N.Y. BUFFALO, 63-, CHMN. GRAD. STUDIES, 67- Nat. Sci. Found. faculty fel, Princeton, 59-60. U.S.M.C, 43-45. Psychol. Asn. Electroconvulsive shock: statistical learning theory. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HOWARD, DR. ALVIN R(AY), b. Brooklyn, N.Y, Apr. 8, 21; m. 48; c. 2. PSYCHOLOGY. B.A, Maryland, 47; M.A. Ohio State, 49, Ph.D.(clin. psychol), 51. Clin. psychologist, VET. ADMIN. HOSP, Chillicothe, Ohio. 51-54, acting chief, in-serv. & intern training sect, clin. psychol. serv, 52-53, chief, 53-54, chief clin. psychol. serv, Sheridan, Wyo, 55-60. psychol. serv, Sunmount, N.Y. 60-61. COORDINATOR PSYCHOL. TRAINING & WARD SERV. CHILLICOTHE, OHIO, 61- Instr, Ohio, 53-54, 63-; exten. div, Wyoming, 55-60. U.S.A, 42-44. Psychol. Asn. Clinical theory; creativity; attitudes; training. Publ: Co-auth, Theoretical approach to psychological movement, J. Abnorm. & Soc. Psychol; The patient speaks, psychologist-patient relations; Sentence completion as an attitudinal measure. Address: 645 Cherokee Rd, Chillicothe, Ohio 45601.

HOWARD, DR. BARBARA BYERS, b. Seattle, Wash, Mar. 9, 30; m. 59. POLITICAL SCIENCE. B.A, Washington (Seattle), 50; Ph.D.(govt), Indiana, 64. Reporter, Bainbridge Rev, 50-51; pub. dir, Wash. State Asn. County Cmnrs, 51-56; res. asst. govt, bur. govt. res, Indiana Univ, 58-64, lectr, univ, 62-64, asst. prof, 64-66; RES. CONSULT. STATE & LOCAL GOVT, BUR. GOVT. RES. & SERV, WASHINGTON (SEATTLE), 66- Ed. & major contrib, Ind. Pub. Affairs Notes, 59-66. Polit. Sci. Asn; Soc. Pub. Admin. State and local politics and administration; intergovernmental relations; public administration; community decision-making. Publ: Reapportionment in Washington, In: Legislative apportionment in the 60's, Nat. Munic. League, 67. Address: 2220 Minor Ave, E, Apt. 401, Seattle, Wash. 98102.

HOWARD, PROF. BION B(RADBURY), b. Paris, France, Oct. 28, 12; m. 40; c. 2. FINANCE. Ph.B, Chicago, 33; M.B.A, Northwestern, 40, Ph.D, 50. Buyer, Montgomery Ward & Co, 33-36; economist & price exec, consumer durable goods br, Off. Price Admin, 42-46; lectr, NORTHWESTERN, 47-50, asst. prof. FINANCE, 50-51, assoc. prof, 51-55, prof, 55-61, NATHAN & MARY SHARP PROF, 61- Economist & asst. dir. consumer durable goods div, Off. Price Stabilization, 51. Econ. Asn; Finance Asn.(v.pres, 61, pres, 62). Business finance; investments. Publ: Co-auth, Introduction to business finance & Managerial problems in finance, McGraw, 65. Address: School of Business, Northwestern University, Evanston, Ill. 60201.

HOWARD, DR. CECIL GERALD, b. Bareilly, India, Nov. 18, 29; m. 59; c. 2. MARKETING, BUSINESS MANAGEMENT. B.A, Agra, 51; M.B.A, Ohio State, 60, Ph.D.(mkt), 65. Treas, Clara Swain Hosp, 52-58; asst. prof. bus. admin, W.Liberty State Col, 64-66; ASSOC. PROF. MKT. & COORDINATOR MKT. PROG, GA. SOUTH. COL, 66- Consult. int. bus, 67- Soc. Int. Develop; Asn. for Ed. Int. Bus; Mkt. Asn. International business, particularly marketing and management. Publ: How to conduct effective sales contests, 68 & International business readings: readings, incidents, and solutions, (in press), Sales & Mkt. Execs-Int. Address: 501 Marvin Ave, Statesboro, Ga. 30458.

HOWARD, PROF. DONALD S(TEVENSON), b. Tokyo, Japan, Sept. 22, 02. SOCIOLOGY. A.B, Otterbein Col, 25, L.H.D, 47; A.M, Denver, 31; Ph.D, Chicago, 41. Dir. adult activities, univ. settlement, Chicago, 31-34; dir. res. & statist. & Denver Off, State Emergency Relief Admin, Colo, 34-36; from res. asst. to dir. dept. soc. welfare admin, Russell Sage Found, 36-48; PROF. SOC. WELFARE, CALIFORNIA, LOS ANGELES, 48-, dean sch. soc. welfare, 48-60. Teacher, Denver, 34-36; Hunter & Brooklyn Cols, 36-40; pub. welfare admin. & int. relief admin, N.Y. Sch. Soc. Work, 37-48; dep. dir. UNRRA China Mission, For. Econ. Admin. & U.S. Dept. State, 43-46. V.pres, Nat. Conf. Soc. Welfare, 48; v.chmn, White House Conf. Children & Youth, 60. Nat. Asn. Soc. Workers (pres, 47-48); Pub. Welfare Asn; Nat. Rehab. Asn. Works Progress Administration and federal relief policy, general assistance, public welfare problems and international relief administration; federal responsibility for relief; impacts of the war upon the social services. Address: School of Social Welfare, University of California, Los Angeles, Calif. 90024.

HOWARD, PROF. DOROTHY GRAY, Folklore, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

HOWARD, DR. GEORGE DELVIGNE, b. Buenos Aires, Argentina, Sept. 17, 17; m; c. 3. ANTHROPOLOGY. A.B, DePauw, 39; Rockefeller Found. fel, Yale, 41-42, Ph.D.(anthrop), 45. Asst. prof. Latin Am. Studies & chmn. dept, Boston, 46-48; soc. affairs officer, UN, 48-58, sr. soc. affairs officer, 59-62, sect. chief bur. soc. affairs, 62-67, ASST. DIR. SOC. DEVELOP. DIV, 67- Fel. Anthrop. Asn; Soc. Am. Archaeol. Prehistory and community studies of South America; urbanization and rural development; social development and planning. Publ: Excavations at Ronquin, Venezuela; Prehistoric ceramic styles of lowland South America, their distribution and history; co-auth, An archaeological survey of Venezuela. Address: Hoyclo Rd, Stamford, Conn. 06903.

HOWARD, PROF. HARRY N, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOWARD, DR. IAN PORTEOUS, b. Rochdale, Eng, July 20, 27; m. 57; c. 3. PSYCHOLOGY. B.Sc, Manchester, 52; Ph.D.(psychol), Durham, 66. Lectr. PSYCHOL, Durham, 52-65; ASSOC. PROF, N.Y. Univ, 65-66; YORK (ONT), 66- Res. grants, Med. Res. Coun. Can, 62-65, & Nat. Res. Coun, Can, 66-Soc. Exp. Psychol; Psychonomic Soc; fel. Brit. Psychol. Soc. Perception; vision. Publ: Co-auth, Human spatial orientation, Wiley, 66; auth, The motor system, In: Textbook of physiological psychology, Dorsey, 66 & Displacing the optical array, In: The neurophysiology of spatially coordinated behavior, Academic, 67. Address: Dept. of Psychology, York University, Toronto 12, Ont, Can.

HOWARD, DR. J. W(OODFORD), JR, b. Ashland, Ky, July 5, 31; m. 60; c. 1. POLITICAL SCIENCE. A.B, Duke, 52; Van Sanfoord-Merle Smith fel, Princeton, 53-54, M.P.A, 54, M.A, 55, Procter fel, 57-58, Ph.D.(polit), 59. Instr. govt. & law, Lafayette Col, 58-59, asst. prof, 59-61; res. fel. law & polit. sci, Harvard Law Sch, 61-62; asst. prof. POLIT. SCI, Duke, 62-66, ASSOC. PROF, 66-67; HOPKINS, 67- Jones Fund award, Lafayette Col, 60. U.S.A.F, 55-57, 1st Lt. Polit. Sci. Asn; Law & Society Asn. Public law; judicial process. Publ: Constitutional limitation and American foreign policy, In: Essays on the American Constitution, Prentice-Hall, 64; co-auth, The Screws case reenacted, J. Polit, 67; On the fluidity of judicial choice, Am. Polit. Sci. Rev, 68. Address: Dept. of Political Science, Johns Hopkins University, Baltimore, Md. 21218.

HOWARD, DR. JACK K(ENDALL), b. Seattle, Wash, Aug. 28, 22; m. 48; c. 2. INDUSTRIAL PSYCHOLOGY. B.S, Washington (Seattle), 48; M.A, Southern California, 49, Ph.D.(indust. psychol), 51. Dir. personnel res. & training, U.S. Rubber Co, Calif, 51-52, asst. mgr. indust. rels, 52-55, Mich, 55-57, dir. mgt. develop, tire div, 57-59, res. assoc. mgt. develop, N.Y, 59-62; dir. mgt. develop, Anderson, Clayton & Co, Tex, 62-66; Tetrad div. mgr, U.S. Rubber Co, N.J, 66-67; DIR. CORP. DEVELOP, CONSOL. FREIGHTWAYS, INC, 67- U.S.N, 42-46. Psychol. Asn. Organization, personnel selection and training. Address: Consolidated Freightways, Inc, 601 California St, San Francisco, Calif. 94108.

HOWARD, DR. JAMES A(RCH), b. Delavan, Ill, May 8, 22; m. 47. CLINICAL PSYCHOLOGY. A.B, Heidelberg Col, 48; M.A, Columbia, 49, U.S. Pub. Health Serv. fel, Los Angeles Psychiat. Serv, 56-57; Ph.D, California, Los Angeles, 57. Instr. psychol, Auburn, 49-51; res. dir. hemiplegic rehab, Community Rehab. Industs, Calif, 57-60; CLIN. PSYCHOLOGIST, Southwest. Ment. Health Center, 61-65; DOUGLAS YOUNG CLIN, 65- Dir, Psychology Found, San Diego. Lectr, Los Angeles State Col, 56-57; California Western, 65-66; San Diego State Col, 66- Consult, Tuberc. & Health Asn, Calif, 58-60; Coun. Alcoholism, 60; Voc. Bur. Hearings & Appeals, Soc. Security Admin, 66. Dipl. Am. Bd. Exam. Prfnl. Psychol, 63. U.S.A.A.F, 42-43. Psychol. Asn; Rehab. Asn. Motivation of human behavior; creativity-originality dimensions; assessment of psychotherapy; rehabilitation of brain injured. Publ: Demonstration and research study of the vocational rehabilitation of the physically rehabilitated hemiplegic; Packaging rehabilitee data for industry, Bull. Rehab. Counseling: Industrial recovery for hemiplegics, Rehab. Lit. Address: 7850 Vista Hill Ave, San Diego, Calif. 92123.

HOWARD, PROF. JAMES H(ENRI), b. Redfield, S.Dak, Sept. 10, 25; m. 48; c. 2. ANTHROPOLOGY. B.A, Nebraska, 49, M.A, 50; Ph.D.(anthrop), Michigan, 57. Archaeologist & preparator, State Hist. Mus, N.Dak, 50-53; anthropologist, Kansas City Mus, 55-57; asst. prof. sociol. & anthrop, North Dakota, 57-61, assoc. prof, 61-63; prof. sociol. & anthrop. & dir. W.H. Over Dak. Mus, South Dakota, 63-68; ASSOC. PROF. SOCIOL. & ANTHROP, OKLA. STATE, 68- State archaeologist, S.Dak, 63- U.S.A, 43-46. Fel. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol; Soc. Ethnohist. New world archaeology and ethnology. Publ: The Bungi or Plains-Ojibwa, 65 & co-auth, Archaeological salvage investigations in the Gavin's Point Reservoir, 66, Univ. South Dakota; The Ponca tribe, 66. Address: Route 2, Stillwater, Okla. 74074.

HOWARD, SISTER JANE MARY, I.H.M. b. Jackson, Mich, Nov. 7, 15. ECONOMICS. Ph.B, Marygrove Col, 40; A.M, Catholic Univ, 44, Ph.D, 50. From instr. to assoc. prof. ECON, MARYGROVE COL, 45-61, PROF, 61-, ACTING PRES, 68-, asst. to pres, 62-68. Econ. Asn. Economic theory; American economic history. Publ: Some economic aspects of the St. Lawrence Seaway project. Address: Dept. of Economics, Marygrove College, Detroit, Mich. 48221.

HOWARD, PROF. JOHN A(RNOLD), b. Georgetown, Ill, June 21, 15. MARKETING. A.B, Illinois, 39, M.S, 41; A.M, Harvard, 48, Ph.D, 52. Asst. prof, col. commerce, Illinois, 48-50; assoc. prof. mkt, sch. bus. Chicago, 50-58; PROF, grad. sch. bus, Pittsburgh, 58-63; MKT, SCH. BUS, COLUMBIA, 63- Mkt. Asn; Econ. Asn; Statist. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Behavior theory as applied to economic behavior, especially to buyer and executive decision processes; the development of theory as an aid to managerial decision; quantitative methods in marketing management. Publ: Marketing management: analysis and planning; Marketing; executive and buyer behavior; Marketing theory. Address: Columbia University School of Business, 524 Uris Hall, New York, N.Y. 10027.

HOWARD, DR. JOHN B, b. Edgewood, Pa, June 9, 12; m; c. 4. INTERNATIONAL AFFAIRS. B.S, Harvard, 33, M.S, 35, Ph.D.(chem), 36; J.D, Chicago, 38. Soc. Fels. jr. fel, Harvard, 36-39; sci. consult. & assoc. gen. counsel, For. Econ. Admin, 42-45; spec. adv, U.S. Rep. Allied Cmn. Reparations, 45-46; asst. legal adv. in charge UN affairs, U.S. Dept. State, 46-47, spec. asst. to Secy. State, 49-50, regional planning adv, Bur. Near East, S.Asian & African Affairs, 50-51; counsr. & dir. legal div, U.S. Mission Aid to Greece, 47, dep. chief mission, 47-48; consult, cong. presentation, Econ. Coop. Admin, 48-49; asst. dir. int. prog, Ford Found, 51-54, dir. Int. Training & Res. Prog, 54-67; PRES. & TRUSTEE, INT. LEGAL CENTER, 67- Study dir. report, Univ. & World Affairs, 60. Coun. For. Rels; Am. Soc. Int. Law; Int. Law Asn; Bar Asn. Molecular structure and vibrations; international legal and educational studies. Publ: Contrib, articles on molecular struct, J. Chem. Physics, 34-37; auth, Int. legal studies, Univ. Chicago Law Rev, 59. Address: International Legal Center, 866 United Nations Plaza, New York, N.Y. 10017.

HOWARD, PROF. JOHN RICHARD, b. Everett, Wash, m; c. 3. GEOGRAPHY. B.A, Washington (Seattle), 47, M.A, 51; Nebraska, 53-54. Teacher, high sch, Wash, 52-56; instr. GEOG, Texas A&M, 56-60; asst. prof, Sam Houston State Teachers Col, 60-61, Northeast Mo. State Teachers Col, 61-63; assoc. prof, Va. State Col, Norfolk, 63-67; ASSOC. PROF. & CHMN. DEPT, SOUTH. COLO. STATE COL, 67- Summers, res. writer, Nat. Capitol Planning Cmn, 59, assoc. prof, Hampton Inst, 66. Asn. Am. Geog. South and East Asia, economic and political geography centered around India; Calcutta as a base of national power. Publ: Aircraft industry of Wichita, Kansas, Beacon, 52; co-auth, World Regional Geography, Pittman, 61; auth, Washington, D.C. as a site for a world fair, Nat. Capital Planning Cmn, 59. Address: Dept. of Geography, Southern Colorado State College, Pueblo, Colo. 81005.

HOWARD, DR. KENNETH I(RWIN), b. Chicago, Ill, Oct. 19, 32; m. 54; c. 2. PSYCHOLOGY. A.B, California, 54; Ph.D, Chicago, 59. Trainee PSYCHOL, Vet. Admin, 58-61, clin. res. psychologist, 61-63; DEP. DIR. RES, INST. JUVENILE RES, 63-; ASSOC. PROF. PSYCHOL, NORTHWESTERN, 67- Res. assoc, Chicago, 60-; Loyola (Ill), 60- U.S.A, 54-55, 1st Lt. AAAS; Psychol. Asn; Soc. Multivariate & Exp. Psychol; Acad. Psychother; Ed. Res. Asn. Development of psychological measurement devices; etiology and treatment of mental disturbances. Address: 232 E. Ohio St, Chicago, Ill. 60611.

HOWARD, DR. L(AWRENCE) VAUGHAN, b. Gastonburg, Ala, July 28, 00; m. 29; c. 2. POLITICAL SCIENCE. B.A, Birmingham-Southern Col, 20; M.A, Chicago, 25, Ph.D.(polit. sci), 31. From assoc. prof. to prof. polit. sci, Col. William & Mary, 28-37; prof, Maryland, 37-43; historian, Hq, U.S. Dept. Army Air Force, 43-44; exec. dir, State Agr. & Indust. Develop, Bd, Ga, 44-47; specialist, regional off, U.S. Dept. Commerce, Ga, 47; prof. polit. sci, Tulane, 47-66, chmn. dept, 47-64; RETIRED. Consult, State Div. Employ. Security, La, 48-52; dir, South. Assembly, 57-67. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; state government. Publ: Civil service development in Louisiana; co-auth, Current American government & Government in metropolitan New Orleans. Address: 3916 E. Brookhaven Dr. N.E, Atlanta, Ga. 30319.

HOWARD, PROF. MARSHALL C(HAPMAN), b. Princeton, N.J, Oct. 10, 19; m. 62; c. 3. ECONOMICS. A.B, Princeton, 41; Hopkins, 47-48; fel, Cornell, 49-50; Ph.D.(econ), 51. Mem. staff acct. & finance, William Iselin & Co, Inc, N.Y, 41, 46-47; asst. prof. ECON. MASSACHUSETTS, 51-56, assoc. prof, 56-60, PROF, 60- Vis. lectr, Smith Col, 54-55, 60-61; vis. assoc. prof, Amherst Col, 57; res. assoc, Patent, Trademark & Copyright Found, George Washington, 58; vis. prof, California, Berkeley, 66-67; summer, instr, Cornell, 50. Res. consult, Gen. Elec. Co, 57. U.S.A.F, 42-46, Res, 46-, Maj. Econ. Asn; Mkt. Asn. Industrial organization and control; business fluctuations; economic history. Publ: Legal aspects of marketing, McGraw, 64; Regulation and the price of natural gas, South. Econ. J; Fair trade revisited, Calif. Mgt. Rev, fall 67. Address: 65 Harlow Dr, Amherst, Mass. 01002.

HOWARD, DR. MARY TATUM, b. San Francisco, Calif, Apr. 30, 27. PSYCHOLOGY. B.A, W.Va. State Col, 48; M.A, Kansas City, 52; Danforth & Student Counseling Bur. fels. & Ph.D.(counseling psychol), Minnesota, 67. Asst. prof. ed. & dir. testing, Miles Col, 52-57; staff psychologist, KENNY REHAB. INST, 63-67, DIR. PSYCHOL. SERV, 67-; ASST. PROF. PSYCHOL, AUGSBURG COL, 65- Clin. instr, Minnesota, 65-67, clin. asst. prof, 67- Summers, vis. lectr, Tuskegee Inst, 56 & Vista training placement officer, 65. Consult, Soc. Security Admin, 64- Personnel & Guid. Asn; Psychol. Asn. Verbal learning behavior; personality characteristics and employment of the physically handicapped. Publ: Evaluating the college student, Miles Col, 54; co-auth, Personality characteristics of 3 disability groups, 65 & Behavioral correlates of self care recovery in hemiplegia, (in press), Arch. Phys. Med. & Rehab. Address: 1324 S.E. Eighth St, Minneapolis, Minn. 55414.

HOWARD, DR. PERRY H(OLBROOK), b. Rockland, Maine, Feb. 7, 22; m. 51; c. 2. SOCIOLOGY. A.B, Harvard, 50; M.A, La. State, 51, Ph.D, 54. Asst. prof. SOCIOL, Memphis State, 54-57; Northeast La. State Col, 57-61; assoc. prof, LA. STATE, New Orleans, 61-64, PROF. BATON ROUGE, 64- Del, White House Conf. Aging, 61. U.S.A.A.F, 43-45. Sociol. Asn. Political sociology; political ecology of voting behavior. Publ: Political tendencies in Louisiana; co-auth, The Louisiana elections of 1960, La. State Univ, 63; Social change, urbanism and types of society, J. Soc. Issues, 66. Address: Dept. of Sociology, Louisiana State University, Baton Rouge, La. 70803.

HOWARD, PROF. ROBERT R(ANDOLPH), Anthrop, see 10th ed, Soc. & Behav. Vols, deceased 65.

HOWARD, DR. RUTH WINIFRED (MRS. ALBERT S. BECKHAM), b. Washington, D.C, Mar. 25, 00; m. 34. PSYCHOLOGY. B.S, Simmons Col, 21, fel. & M.S, 28; Spelman fel, Columbia, 21, univ. assistant-ship, 29-30; Ph.D, Minnesota, 34. Intern clin. psychol, Ill. Inst. Juvenile Res, 35-36; co-dir, CENTER PSYCHOL. SERV, 40-64, DIR, 64- Psychologist, Provident Hosp. Sch. Nursing, 40-66; Lincoln Center Retarded Children's Prog, 66-; Head Start Child Development Prog, 66-; Chicago Bd. Health Ment. Health Clins, 67- Grad. Courtesy fels, Chicago, 42-44,55. Lectr, pub. sch, Ill, 43-45. Consult. & clinician, Ky. State Col. & Edward Waters Col, 48. AAAS; Psychol. Asn; Int. Coun. Psychologists. Child development; individual differences; personality, especially familial and environmental influences on development of personality traits; reading therapy to enhance academic skills and to improve personality factors. Publ: Fantasy and the play interview, Character & Personality; Intellectual and personality traits of a group of triplets, J. Psychol; Developmental history of a group of triplets, J. Genetic Psychol. Address: Center for Psychological Service, 1357 E. Hyde Park Blvd, Chicago, Ill. 60615.

HOWARD, PROF. STANLEY E(DWIN), b. Sherbrooke, Que, Sept. 29, 88; U.S. citizen. ECONOMICS. A.B, Bates Col, 10; A.M, Princeton, 13, Ph.D, 16. Instr. econ. & sociol, Mt. Holyoke Col, 13-14; ECON, Princeton, 16-17; Dartmouth Col, 17-18; asst. prof, PRINCETON, 18-23, assoc. prof, 23-40, prof, 40-57, chmn. dept. econ. & soc. insts, 34-48, EMER. PROF, 57- Mem. bd. overseers, Bates Col, 33-53, bd. fels, 53. Econ. Asn; Acct. Asn. Historical and public-policy phases of corporation finance; accounting. Publ: The ABC of accounting; Trust indenture act of 1939, J. Land & Pub. Econ; Stockholder's liability under the New York act of March 22, 1811, J. Polit. Econ. Address: 45 Lake Lane, Princeton, N.J. 08540.

HOWARD, DR. STEPHEN J(AMES), b. Warsaw, Poland, Jan. 23, 26; U.S. citizen; m. 60; c. 2. CLINICAL PSYCHOLOGY. B.A, Southern California, 51, Ph.D.(clin. psychol), 62; M.A, Los Angeles State Col, 53. Psychologist, Los Angeles County Juvenile Hall Psychiat. Clin, 56-58; sr. clin. psychologist, south. reception center & clin, Calif. Youth Authority, 58-62; ment. retardation eval. & referral center, Los Angeles State Ment. Hyg. Clin, 62-65; CHIEF PSYCHOL. SERV, SAN FERNANDO VALLEY CHILD GUID. CLIN, 65- Staff psychologist, Vista Del Mar Child Care Center, 62-; Woodview Hosp, Van Nuys, Calif, 63-; San Fernando Valley Community Ment. Health Clin, 66-67. Consult. & mem. prfnl. adv. cmt, Dubnoff Sch. Ed. Ther, North Hollywood, Calif, 63-; consult, psychol. clin. sch, California, Los Angeles, 66-67. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn; Soc. Proj. Tech. Determinants of sex-role identifications of homosexual female delinquents; training of non-professionals for work in field of mental health. Publ: Training of case aides in a child guidance clinic, Newsletter. Address: 7335 Van Nuys Blvd, Van Nuys, Calif. 91405.

HOWARD, DR. S(TUART) ALAN, b. Brooklyn, N.Y. Apr. 28, 34; m. 64. ANTHROPOLOGY. B.A, Stanford, 55, M.A, 58, Ph.D.(anthrop), 62. Instr. anthrop, sociol. & psychol, Cabrillo Col, 61-62; lectr. anthrop, Auckland, 62-63; ANTHROPOLOGIST, B.P. BISHOP MUS, 63- Lectr, Hawaii, 63-; res. grants, Human Ecol. Fund, 62 & Nat. Inst. Ment. Health, 65-68. Anthrop. Asn; Acad. Polit. & Soc. Sci; Soc. Appl. Anthrop. Psychological anthropology; study of interpersonal relations; Polynesian cultures. Publ: Land, activity systems and decision-making models in Rotuma, Ethnology, 63; co-auth, A proposed framework for the analysis of stress in the human organism, Behav. Sci, 65; auth, Plasticity, achievement and adaptation in developing economies, Human Orgn, 66. Address: Dept. of Anthropology, B.P. Bishop Museum, Honolulu, Hawaii 96819.

HOWARD, DR. THOMAS W(ILLIAM), b. Texarkana, Tex, July 30, 27. PSYCHOLOGY. Ph.D.(psychol), Tulane, 53. Clin. psychologist, S.E. La. Hosp, 53-57; chief clin psychologist, Cent. La. State Hosp, Pineville, 57-60; CLIN. PSYCHOLOGIST, 60- Consult, Bogalusa Guid. Center, La, 54-56. U.S.N.R, 45-46. Behavior disorders; psychotherapy; personality testing. Address: 1636 Glenstone St, Springfield, Mo. 65804.

HOWARD, DR. VICTOR, b. Montreal, Que, Aug. 12, 23; nat; m. 53. COUNSELING PSYCHOLOGY. B.A, Sir Geo. Williams Univ, 47, B.Sc, 48; Ph.D, Mich. State, 54. Engr, Canadian Vickers, Ltd, Que, 42-46; Aluminum Co. Can, 46-48; design engr, E.B. Badger & Sons, Mass, 48-50; Foster-Wheeler Corp, N.Y, 50; asst. prof. psychol. & mem. bd. exam, Mich. State, 52-56; psychologist, personnel directorate, Syst. Develop. Corp, 56-62, staff exec, 62-64, corp. personnel adminstr, 64-66; PSYCHOLOGIST & MEM. PRFNL. STAFF, ROHRER, HIBLER & REPLOGLE, SAN FRANCISCO, 66- Exten. faculty mem, sch. bus. admin, California, Los Angeles, 62-66; lectr, Am. Mgt. Asn. Seminars Personnel Admin. & Mgt. & Orgn. Probs, 62- Consult, Southwest Regional Lab. Ed. Res. & Develop, 66- V.chmn. tech. adv. cmt. testing, Calif. State Fair Employ. Practices Cmn, 66-67, chmn, 67-68. AAAS; Psychol. Asn; Personnel & Guid. Asn; Research Soc. Guidance; personality theory and measurement; personal adjustment counseling; personnel and organizational management problems; organization theory; management communications. Publ: Study of academic preferences in a program of general education and their apparent relationship to student change, Sci. Ed; Changes in beliefs and attitudes in academic success prediction, Personnell & Guid. J. Address: 2856 Adeline Dr, Burlingame, Calif. 94010.

HOWARD, DR. WILLIAM EDWARD HARDING, b. Athens, Ga, Oct. 1, 24. POLITICAL & SOCIAL SCIENCE. B.S, W.Va. State Col, 45; Fulbright fel. & M.A, Glasgow, 50; Bunche fel, Oslo, 52; Netherlands Univs. Found. Int. Coop. fel. & M.S.Sc, Inst. Soc. Studies, Netherlands, 53; summers, Hague Acad. Int. Law, 53, Salzburg Seminar, Austria, 54; fel. & Ph.D, Free Univ. Amsterdam, 55. Consult. soc. studies, Ministry of Ed. & Fine Arts, Ethiopia, 46-49, 50-52; instr, Am. Sch, Netherlands, 54-55; PROF. POLIT. SCI, FLA. AGR. & MECH, 56- Lectr, U.S. Info. Serv, Ethiopia, 50-52, Netherlands, 53-55. Consult, cmt. int. rels, Summit Meeting of Negro Leaders, D.C, 58. AAAS; Polit. Sci. Asn; Soc. Pub. Admin; Soc. Int. Law; Acad. Polit. & Soc. Sci; African Studies Asn. Ethiopian government, economy and public administration; government and politics of Africa. Publ: Nationalism and Pan-Africanism; future perspectives of the African renaissance; Public administration in Ethiopia; Africa emergent: challenge to the western democracies. Address: Dept. of Political Science, Florida Agricultural & Mechanical University, Tallahassee, Fla. 32307.

HOWARD, PROF. WILLIAM M(ICHAEL), b. Evanston, Ill, Apr. 9, 21; m. 47; c. 4. ECONOMICS. Ph.B, Wisconsin, 44, M.S, 47, Ph.D, 51. Assoc. prof. statist. & ins. Idaho, 50-54; dir. ed. pub, Am. Col. Life Underwriters, 54-55; from assoc. prof. to PROF. INS, FLORIDA, 55- Mem, Conf. Actuaries Pub. Practice. U.S.N.R, 42-46, Lt.(jg). Finance Asn. Insurance; pensions. Publ: Cases on risk management, McGraw, 67; GA-51 Retirement plan factors, privately pub. Address: Dept. of Finance & Insurance, University of Florida, Gainesville, Fla. 32601.

HOWARTH, DR. EDGAR, b. Blackburn, Eng, May 5, 25; m. 46; c. 2. PSYCHOLOGY. B.Sc, Manchester, Eng, 49, M.Sc, 53; Ph.D, Melbourne, Australia, 57. Lectr. PSYCHOL, Melbourne, Australia, 51-59; res. assoc, Illinois, 59-60; ASSOC. PROF, ALBERTA, 60- Can. Coun. Res. fel, Postgrad. Med. Found, Univ. London, 66-67. R.A.F, 43-46. Objective personality tests; personality theory; multivariate and univariate theory; perception, especially psychophysics of simple judgments; instinctual behavior. Address: Dept. of Psychology, University of Alberta, Edmonton, Alta, Can.

HOWARTH, MARGERY D(UFF), Geog, see 10th ed, Soc. & Behav. Vols.

HOWAT, DR. M(ANUEL) GORDON, b. Canwood, Sask, Feb. 1, 28; U.S. citizen. EXPERIMENTAL PSYCHOLOGY. B.Sc, Saskatchewan, 50; M.Sc, Alberta, 53; Rockefeller fel, North Carolina, 53-54; M.Sc, Wisconsin, 57; Ph.D.(psy-

chol), Mich. State, 62. Horticulturist, Dom. Exp. Sta. Can, 50-51; asst. prof. psychol, Ball State, 57-60; asst. prof. psychol. & dir. comput. center, New Mexico Highlands, 62-63; res. psychologist, Cornell Aeronaut. Lab, 63-66; ASSOC. PROF. LEARNING, TEXAS, EL PASO, 66- Vis. prof, Lethbridge, 67- Consult, Wis. Diag. Center, Madison, 54-56; soc. & behav. sci. comput. sect, Mich. State, 60-62; N.Mex. Sch. Boys, 62-63; N.Mex. State Hosp, 63. Psychol. Asn; Statist. Asn; Simulation Coun. Learning; heredity of behavior and physiology; problem solving and its simulation; genetic improvement; plant physiology; taboo behavior. Publ: Co-auth, Influence of intertrial interval during extinction on spontaneous recovery of conditioned eyelid responses, J. Exp. Psychol, 56: 11-15; auth, Variables affecting the graduate assistant in a computer training position, Ed. & Psychol. Measurement, 25: 887-892; The human brain as an information processor, Cornell Aeronaut. Lab. Report FDM-357, 65. Address: Dept. of Psychology, University of Texas at El Paso, El Paso, Tex. 79999.

HOWE, DR. C(HARLES HENRY) WALTER, b. Hot Springs, Ark, Mar. 8, 23; m. 47; c. 4. POLITICAL SCIENCE. A.B, Dartmouth Col, 43, M.C.S, 46; Stanford, 43-44; For. Serv. Inst, 52; African Studies Res. fel, Boston, 55-56, Ford Found. for. area training fels, 56-59, Ph.D.(govt), 61. V.consul, Consulate Gen, U.S. Dept. State, Indonesia, 47-49, consul & prin. officer, Tabriz, Iran, 49-50, 2nd secy. & consul econ. officer, Am. Embassy, Tehran, 50-51, legation, Luxembourg, 52-54; staff assoc. Africa liaison cmt, Am. Coun. Ed, 61-66, exec. officer overseas liaison cmt, 66-67; CONSULT. POLIT. & HIGHER ED. IN DEVELOP. AREAS, 67- Mem, Nat. Coun. Testing Eng. as For. Lang, 62-67; African adv. group, Ed. & World Affairs & Overseas Ed. Serv, 63-65, liaison mem, study cmt. manpower needs & ed. capabilities in Africa, 64-65; dep. mem. cmt. int. exchange of persons, Conf. Bd. Assoc. Res. Coun, 64-66. U.S.A, 43-46. Polit. Sci. Asn; African Studies Asn; Int. African Inst. Political value-beliefs in Uganda as a significant factor conditioning political behavior. Publ: African approaches to the development of higher education, In: Post-primary education and political and economic development, Duke & Cambridge, 64. Address: 3908 Huntington St. N.W, Washington, D.C. 20015.

HOWE, DR. CHARLES W(ARREN), b. Dayton, Ohio, Mar. 28, 31; m. 52; c. 3. ECONOMICS. B.A, Rice Univ, 52; M.A, Stanford, 56, Ph.D, 59. Asst. prof. econ, Purdue, 58-65; MEM. STAFF, RESOURCES FOR THE FUTURE INC, 65- U.S.N, 52-54, Res, 55-, Lt. Econ. Asn; Economet. Soc. Application of mathematics to management decision problems; economic efficiency in transportation, especially air and waterway. Publ: Indiana air study; Von Neuman models, Econometrica. Address: Resources for the Future Inc, 1775 Massachusetts Ave. N.W, Washington, D.C. 20036.

HOWE, DR. HAROLD, b. Chapman, Kans, Feb. 24, 01; m. 30; c. 2. ECONOMICS. B.S, Kansas State, 22; M.S, Maryland, 23; Ph.D.(agr. econ), Wisconsin, 37. Asst. soils, Maryland, 22-23; agr. econ, Wisconsin, 24-25; instr, Kansas State, 25-27, asst. prof, 27-30, assoc. prof, 30-34, prof, 34-64, acting head dept, 34-35, dean grad. sch, 45-64, chmn. faculty coun. student affairs, 45-49; dean grad. sch, St. Louis, 64-67. Dir. grad. fel. br, U.S. Off. Ed, 61-62. Consult, Nat. Resources Planning Bd, 38-43. Public finance; land tenure and economics. Address: 2437 Anderson Ave, Manhattan, Kans. 66502.

HOWE, DR. LOUISA P(INKHAM), b. Melrose, Mass, Sept. 22, 15; div; c. 3. SOCIOLOGY. A.B, Radcliffe Col, 37, M.A, 39, fel, 41-43, Ph.D.(sociol), 49; Freud Mem. fel, Boston Psychoanal. Inst, 41-44. Jr. soc. sci. analyst, U.S. Bur. Prisons, D.C, 38; instr. sociol. & dir. col-community center, Skidmore Col, 39-41; tutor, Radcliffe Col, 41-43; ed. counsr, Nat. Inst. Pub. Affairs, D.C, 44-45; sociologist, ed. & res. depts, Menninger Found, Kans, 47-49; res. fel, Nat. Inst. Ment. Health, 49-50, 52-54; asst. prof. psychol, Kansas, 50-52; assoc. res. sociologist & resident res. dir, Kauai (Hawaii) Pregnancy Study for Univ. Calif. Sch. Pub. Health, 54-58; from lectr. to asst. prof. ment. health, sch. pub. health, HARVARD, 58-64, ASST. PROF. SOCIOL, MED. SCH, 64- Sociologist, Lab. Community Psychiat, 64-66; psychiat. serv, Boston City Hosp, 66- AAAS; fel. Sociol. Asn; Soc. Study Social Probs; Soc. Appl. Anthrop. Process of identification and identity formation; mutual articulation of psychoanalytic and sociological concepts; evaluative research; community mental health programs. Publ: Identification: a crucial concept for sociology, Bull. Menninger Clin; Problems in the evaluation of mental health programs, In: Community programs for mental health; The concept of community, In: Handbook of community psychiatry, 64. Address: 35 Sycamore Rd, North Quincy, Mass. 02171.

HOWE, DR. REUEL L(ANPHIER), b. Vashon, Wash, May 15, 05. PSYCHOLOGY. A.B, Whitman Col, 27; S.T.B, Phila. Divinity Sch, 30, Th.M, 31, S.T.D, 39. Prof. pastoral theol, Phila. Divinity Sch, 37-44; Protestant Episcopal Theol. Sem, 44-57; DIR. INST. ADV. PASTORAL STUDIES, 57- Correlation of psychology and theology. Publ: Herein is love; Miracle of dialogue, Seabury, 63; Youth considers personal moods, Nelson, 66. Address: Institute for Advanced Pastoral Studies, 380 Lone Pine Rd, Bloomfield Hills, Mich. 48013.

HOWE, DR. WILLIAM G(EROW), Math, see 11th ed. Phys. & Biol. Vols.

HOWELL, DR. A(LVIN) HERCULES, b. Melton Mowbray, Eng, Dec. 25, 15; U.S. citizen; m. 36; c. 7. ANTHROPOLOGY, SOCIOLOGY. B.A, Cambridge, 37; Sorbonne, 38-39; Ph.D.(anthrop), Leeds, 49. Asst. to curator, Ross Mus. Oceanic Ethnol, London, Eng, 37-38; asst. to librn, Royal Anthrop. Inst. Gt. Brit. & Ireland, 45-47; res. asst. to dir, Logenmiller Exped, Tortutorunga & Sub-Mankaluga Islands, 50-53; res. assoc, Human Rel. Area Files, Inc, 53-57; Hinshaw Found. fel. comp. soc. insts, Ankara, Turkey, 58-60, field assoc, Iraq Exped, 60-62; CONSULT. ANTHROP, 63- Cultural dynamics; oceanic ethnology; primitive societies. Publ: Youth and Manhood in Tortutorunga; Is It True? Address: 6632 E. Holly St, Scottsdale, Ariz. 85257.

HOWELL, PROF. CHARLES E, b. Oelwein, Iowa, Jan. 19, 99; m. 34. SOCIOLOGY. Ph.D.(ed. sociol), Iowa, 37. Prof. SOCIOL, NORTHERN ILLINOIS, 38-65, EMER. PROF, 65-, DIR. BUR. UNIV. RES, 38- U.S.N, 17-18. Sociol. Asn. Community; race; propaganda. Address: 32 Mallard Point, Mountain Home, Ark. 72653.

HOWELL, PROF. DORIS McCHESNEY, b. Jennings, Okla, Jan. 20, 20; m; c. 2. GEOGRAPHY. B.S, Okla. Agr. & Mech. Col, 46, M.A, 49; fel, North Carolina, 50-52. Instr. geog, Okla. Agr. & Mech. Col, 48-50; Meredith Col, 54-58; MISS. STATE, 58-67, ASST. PROF. GEOL. & GEOG, 67- Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Hydroelectric development of Latin America; geographic regions of Sardinia. Address: Box 3, State College, Miss. 39762.

HOWELL, PROF. F(RANCIS) CLARK, b. Nov. 27, 25; m. 55; c. 1. ANTHROPOLOGY. Ph.B, Chicago, 49, M.A, 51, Ph.D, 53. Instr. anat, sch. med, Washington (St. Louis), 53-55; asst. prof. ANTHROP, CHICAGO, 55-59, assoc. prof, 59-62, PROF, 62- U.S.N.R, 44-46. AAAS; Anthrop. Asn; Asn. Phys. Anthrop; Soc. Vert. Paleont. Physical anthropology; human evolution and paleoanthropology. Publ: Early man, Life Nature Library, 65. Address: Dept. of Anthropology, University of Chicago, Chicago, Ill. 60637.

HOWELL, PROF. HERBERT B(URNHAM), b. Frederick, S.Dak, Dec. 8, 11; m. 35; c. 2. AGRICULTURAL ECONOMICS. B.S, Iowa State, 34, M.S, 46; Minnesota, 37. Fieldman, Cent. Nat. Bank & Trust Co, Ill, 33-34; assoc. AGR. ECON, EXTEN. SERV, IOWA STATE, 34-45, asst. prof, 45-49, assoc. prof, 49-58, PROF, 58- Peru-Iowa State Univ. Agency Int. Develop. mission, land reform, 62-64; lectr, Inst. Develop. Execs. Argentina, Buenos Aires, 65. Consult, cmn. admin. funds econ. develop, Argentina, 59-60. Agr. Econ. Asn. Agricultural production economics; farm business analysis; budgeting and credit; farm management. Publ: Better farm accounting; Your family finances. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50010.

HOWELL, PROF. JAMES E(DWIN), b. Sterling, Colo, Mar. 6, 28. ECONOMICS. A.B, Fresno State Col, 50; fel, Illinois, 50-51, M.A, 51; Ph.D, Yale, 55. Instr, Yale, 54-56; lectr, California, 56; mem. staff, Ford Found, 56-58, 62; PROF. ECON, GRAD. SCH. BUS, STANFORD, 58-, ASSOC. DEAN, 65- Ford Found. faculty fel, 59-60; Nat. Sci. Found. fel, 63-64. U.S.A, 46-47. Macroeconomic systems; international economics; management education. Publ: Co-auth, Higher education for business; Mathematics for business decisions; European economics—East and West, 67. Address: Stanford University Graduate School of Business, Stanford, Calif. 94305.

HOWELL, PROF. JOHN C(HASE), b. El Paso, Tex, Dec. 29, 28; m. 55; c. 2. SOCIOLOGY. B.A, Texas Christian, 51, M.A, 52; Ph.D, Duke, 58. Instr. SOCIOL. & ANTHROP, Duke, 54-58; asst. prof, MICH. STATE, 58-63, ASSOC. PROF, 63-; ASSOC. DEAN COL. SOC. SCI, 66-, ASSOC. DEAN COL. HUMAN MED, 66-, asst. dean col. soc. sci, 64-66. U.S.A, 46-48. Sociol. Asn; Anthrop. Asn; Soc. Study Social Probs; Asn. Am. Med. Cols. Social organization and disorganization. Address: College of Social Science, Michigan State University, East Lansing, Mich. 48823.

HOWELL, PROF. JOHN M(cDADE), b. Five Points, Ala, Jan. 28, 22; m. 52; c. 2. INTERNATIONAL LAW & RELATIONS. B.A, Alabama, 48, fel, 48-49, M.A, 49, Ph.D, 54. Asst, Duke, 49-50, 51, instr. polit. sci, 52-53; Idaho, 50-51; Randolph-Macon Woman's Col, 51-52; asst. prof. govt, Sweet Briar Col, 53-54; polit. sci, Memphis State Col, 54-57; assoc. prof. GOVT, EAST CAROLINA, 57-61, PROF, 61-, DEAN COL. ARTS & SCI, 66-, chmn. polit. sci. dept, 63-66. Summer fels, commonwealth studies center, Duke, 56, 60. U.S.A.A.F, 42-45, Sgt. Soc. Int. Law; Polit. Sci. Asn. United Nations law; domestic jurisdiction; law of treaties; commonwealth and international organization. Publ: Co-auth, The international law standard and commonwealth developments, Duke, 66; auth, The commonwealth and the concept of domestic jurisdiction, Can. Yearbook Int. Law, 67; co-auth, Commonwealth and domestic jurisdiction, Am. J. Int. Law. Address: Box 2713, East Carolina University, Greenville, N.C. 27834.

HOWELL, DR. L(EANDER) D, b. Dorsey, Miss, Aug. 27, 93; m. 31. AGRICULTURAL ECONOMICS. B.S. & M.S. Agr. & Mech. Col, Tex, 22; fel, Wisconsin, 24-25, Ph.D.(agr. econ), 34; LL.B, Georgetown, 41, J.D, 67. Asst. prof. agron, Clemson Col, 22-23; assoc. prof. agr. econ, Okla. Agr. & Mech. Col, 25-27; prof, Tex. Tech. Col, 27-28; agr. economist, U.S. Dept. Agr, 28-64; RETIRED. Superior serv. award, U.S. Dept. Agr, 60. U.S.A, 17. AAAS; Agr. Econ. Asn. Marketing margins and costs; protection afforded by futures trading; price analysis. Publ: Wool classification service and prices to producers, 61, Analysis of hedging and other operations in wool and wool top futures, 62 & The American textile industry, 64, U.S. Dept. Agr. Address: 4650 Broad Branch Rd. N.W, Washington, D.C. 20008.

HOWELL, DR. LELAND L, b. Sebastopol, Calif, July 4, 20. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Stanford, 43; Ph.D.(econ), California, Berkeley, 61. Instr. econ, San Francisco State Col, 51-54; controller, Harry Cooper Inc, Calif, 54-57; asst. prof. mkt, California, Los Angeles, 57-61; lectr, California, Berkeley, 61-62; ASSOC. PROF. econ, Drury Col, 62-64; MKT, SOUTHERN CALIFORNIA, 64- Ford Found. res. grant, 62-63. U.S.M.C, 43-47, S/Sgt. Econ. Asn; Mkt. Asn. Regional economic development. Publ: Warehousing, Small Bus. Admin, 61; Planned innovation as a marketing tool, Calif. Mgt. Rev, summer 62; Industrial parks in community development, Bus. & Govt. Rev, 4/63. Address: Dept. of Marketing, School of Business Administration, University of Southern California, Los Angeles, Calif. 90007.

HOWELL, DR. LLOYD R(UFUS), b. Boomer, N.C, May 12, 28; m. 52; c. 2. EDUCATIONAL ADMINISTRATION, SOCIOLOGY. B.S, N.C. Col. Durham, 49, M.S.P.H.E, 54, Ph.D.(ed. admin, sociol), 64. Teacher & coach, high sch, S.C, 54-56; Ga, 56-57; coach & chmn. dept. health & phys. ed, Fla. Norm. Col, 57-59; res. asst. ed, N.C. Col. Durham, 59-61; asst. prof, St. Augustine's Col, 61-62; prof, S.C. State Col, 62-63; ASSOC. PROF. ED. ADMIN. & SOCIOL. & DIR. FRESHMAN CURRICULUM PROJ, JACKSON STATE COL, 64- Ed. consult, STAR, Inc, 66-68; consult, Headstart, 66-68. U.S.A, 50-52. Soc. Pub. Health Ed. Nature and extent of administrative problems of Negro high school principals in North Carolina, during the school years 1961-62; testing and academic achievement. Address: Dept. of Sociology, Jackson State College, Jackson, Miss. 39217.

HOWELL, PAUL L, b. Bellingham, Wash, Nov. 22, 10; m. 49; c. 2. FINANCE. B.B.A, Washington (Seattle), 31, M.A, 34; summer, Heidelberg, 36; M.A.

Harvard, 42; Brookings Instn. fel, 38-39; Invest. Bankers Asn. Am. & N.Y. Stock Exchange fels, 48; N.Y. Life Ins. Co. fel, 51; Socony-Vacuum Oil Co. fel, 53. Asst. prof. finance, Northwestern, 45-48; assoc. prof, grad. sch. bus, N.Y. Univ, 48-56; FINANCIAL CONSULT. & PARTNER, PAUL HOWELL ASSOCS, 56-; PROF. FINANCE, CITY COL. NEW YORK, 60- Econ. analyst, U.S. Dept. Commerce, 39; security analyst, Securities & Exchange Cmn, 40-47; vis. prof. grad. sch. bus. admin, Columbia, 50-58; California, Los Angeles, 59; third dep. comptroller, City of New York, 62-65; dir, Fund of Am, Inc; Fund. of Am. Mgt. Corp. Govt. consult. Mem, Inst. Chartered Financial Analysts. U.S.N.R, 42-45, Lt. Comdr. Finance Asn; Econ. Asn; Statist. Asn; Am. Acct. Asn. Pension administration and fund investing; utility finance and regulation; securities market regulation. Publ: Administration of the securities act; Common stocks and pension fund investing, Harvard Bus. Rev; Securities regulation, In: Bogen's financial handbook, 3rd ed. Address: 535 E. 14th St, New York, N.Y. 10009.

HOWELL, PROF. PHILIP L(EWIS), b. Boston, Mass, Feb. 19, 12; m. 39. ECONOMICS. A.B, Pennsylvania, 34, A.M, 35, Harrison fel, 35-36, Ph.D. (econ), 56. Instr. ECON, Pennsylvania, 36-40; asst. prof, Hendrix Col, 40-43, assoc. prof, 43-46; COL. BUS. ADMIN, TULSA, 46-57, PROF, 57- Instr, Temple, 37-38. Econ. Asn; Acad. Polit. & Soc. Sci. Labor and contemporary problems. Address: Dept. of Economics, University of Tulsa College of Business Administration, Tulsa, Okla. 74104.

HOWELL, PROF. ROBERT J(AMES), b. Salt Lake City, Utah, Sept. 13, 25; m. 46; c. 2. PSYCHOLOGY. B.A, Utah, 48, M.A, 49, Ph.D.(psychol), 51. Clin. asst. PSYCHOL, Utah, 48-50, teaching asst, 50-51; instr, Fresno State Col, 51-52; asst. prof, BRIGHAM YOUNG, 52-56, assoc. prof, 56-60, PROF, 60-, CHMN. DEPT, 61- Sr. psychologist, Utah State Hosp, 58-60, consult, 60-62; staff psychologist, Patton State Hosp, 65-66. Consult, Utah State Prison, 61- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 67. U.S.A.A.F, 43-46. Psychol. Asn. Abilities in old age; clinical test theory. Publ: Changes in Wechsler subtest scores with age, J. Consult. Psychol; Sex differences and educational influences on a mental deterioration scale. J. Geront. Address: Dept. of Psychology, Brigham Young University, Provo, Utah 84601.

HOWELL, DR. ROGER, JR, Eng. Hist, Early Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOWELL, PROF. RONALD F(LOYD), b. Birmingham, Ala, July 2, 28; m. 54; c. 1. POLITICAL PHILOSOPHY, CONSTITUTIONAL LAW. A.B, Univ. of the South, 49; Johnson fel. & A.M, Hopkins, 50, Ph.D, 52; Fulbright scholar. & dipl, Strasbourg, France, 53; Hague Acad. Int. Law, 53. Chmn. of instructors in Am. govt, Hopkins, 50-52; instr. polit. theory & constitutional law, Emory, 53-54, asst. prof. jurisp. & Am. govt, 54-58, assoc. prof, 58-65; PROF. constitutional law, C.W. Post Col, Long Island, 65-66; POLIT. THEORY & CONSTITUTIONAL LAW, JACKSONVILLE STATE, 67- Instr, McCoy Col, Hopkins, 51-52, lectr, summer, 55-57, Hollins Col, spring 64; Am. Philos. Soc. fel, 58; lectr, South. Bell Tel. Co, 59; Rockefeller fel, 61. Summers, instr, Alabama, 50, polit. econ. fel, Claremont Col, 59 & Wisconsin, Milwaukee, 64. Chmn, Nat. Fulbright Selection Cmt, France, 56, mem, Nat. Selection Cmt. for Fulbright Travel Grants, 60- Polit. Sci. Asn; Soc. Polit. & Legal Philos. Contemporary French political and social science; American constitutional law, particularly the commerce, due process and equal protection clauses of the constitution. Publ: Political thought of Reinhold Niebuhr, Ethics; Search for jurispolitical philosophy, Va. Law Rev; Myth of neutrality in constitutional adjudication, Chicago Law Rev. Address: Dept. of Political Science, Jacksonville State University, Jacksonville, Ala. 36265.

HOWELL, PROF. WILLIAM C(ARL), b. Morristown, N.J, June 26, 32; m. 54; c. 2. PSYCHOLOGY. B.A, Virginia, 54, M.A, 56, Ph.D.(psychol), 58. Asst. PSYCHOL, off. naval res, Virginia, 54-57; res. assoc, lab. aviation psychol, OHIO STATE, 57-60, assoc. supvr. & asst. prof, 60-62, assoc. prof, 62-65, PROF, 65-, DIR. HUMAN PERFORMANCE CENTER, 64- AAAS; Psychonomic Soc; Psychol. Asn. Human sensory and perceptual processes; human information processing; human decision making. Publ: Co-auth, Prediction on the basis of conditional probabilities, 65 & auth, Task characteristics in sequential decision behavior, 66, J. Exp. Psychol; co-auth, Complex monitoring and its relation to the classical problem of vigilance, J. Orgn. Behav. & Human Performance, 66. Address: 321 Arps Hall, Ohio State University, Columbus, Ohio 43210.

HOWELL, PROF. WILLIAM H(ARRY), Sociol, see 10th ed, Soc. & Behav. Vols.

HOWELLS, DR. THOMAS HENRY, Psychol, see 11th ed, Phys. & Biol. Vols.

HOWELLS, DR. W(ILLIAM) W(HITE), b. New York, N.Y, Nov. 27, 08; m. 29; c. 2. PHYSICAL ANTHROPOLOGY. B.S, Harvard, 30, Ph.D.(anthrop), 34. Res. assoc. phys. anthrop, Am. Mus. Natural Hist, 32-43; asst. prof. ANTHROP, Wisconsin, 39-46, assoc. prof, 46-48, PROF, 48-54; HARVARD, 54-, CURATOR SOMATOL, PEABODY MUS, 55- Lectr, Hunter Col, 37-39. Medal, Viking Fund, 54. U.S.N.R, 43-46, Lt. Nat. Acad. Sci; fel. AAAS; fel. Anthrop. Asn. (pres, 51); Asn. Phys. Anthrop. (ed, J, 49-54); Soc. Human Genetics; Soc. Archaeol; Eugenics Soc; Soc. Nat; Soc. Study Evolution; Inst. Human Paleont; fel. Am. Acad. Arts & Sci. Human paleontology; multivariate analysis of physical form. Publ: The Heathens; Mankind in the making; ed, Ideas of the human evolution, 1949-61. Address: Peabody Museum, Harvard University, Cambridge, Mass. 02138.

HOWER, PROF. RALPH M(ERLE), b. Salina, Kans, Aug. 25, 03; m. 28; c. 2. BUSINESS ADMINISTRATION. A.B, Kansas, 25; Rhodes scholar, Oxford, 25-28, M.A, 53; D.C.S, Harvard, 35; hon. D.Phil. et Lit, Navarra, 67. Instr, Kansas, 28-30; asst. bus. hist, HARVARD, 30-34, instr, 34-35, asst. prof, 35-46, assoc. prof. BUS. ADMIN, 46-49, PROF, 49- Trustee, Bus. Hist. Found, Inc, 54- U.S.A, 42-46, Col. History of business; evolution of marketing in the United States; human relations in business. Publ: History of Macy's of New York; co-auth, The administrator, cases on human relations in business, Irwin; co-auth, Managers and scientists, 63. Address: Morgan Hall, Soldiers Field, Boston, Mass. 02163.

HOWERTON, PROF. H(UEY) B(LAIR), b. Iuka, Miss, Apr. 25, 95. POLITICAL SCIENCE. B.S, Miss. State Col, 15; A.M, Mississippi, 24; A.M, Texas, 34, Ph.D, 43; grad. fel, North Carolina, 35-36. Instr, Miss. State Teachers Col, 15-17; Miss. State Col, 17-18; prin. & supt, schs, Miss, 19-20; self-employed, 20-23; prin. & bus. mgr, schs, Miss, 24-30; asst. prof. POLIT. SCI, MISSISSIPPI, 30-42, assoc. prof, 42-43, chmn. dept, 43-58, prof, 43-62, EMER. PROF, 62- U.S.A, 17-19, 2nd Lt. Address: Dept. of Political Science, University of Mississippi, University, Miss. 38677.

HOWES, DR. DAVIS H(UMPHREY, III), Exp. psychol, see 11th ed, Phys. & Biol. Vols.

HOWES, DR. EDWARD H(ERBERT), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOWETT, DR. GERALD L(EONARD), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

HOWLAND, PROF. DANIEL, b. East Greenwich, R.I, June 11, 15; m. 44; c. 2. MANAGEMENT SCIENCE. Sc.B, Brown, 49; fel, Ohio State, 51-53, M.A, 52, Ph.D.(eng, psychol), 55. Draftsman & flight engr, Pan Am. World Airways, N.Y, 41-44; chief engr, Piedmont Airlines, 49-50; asst. psychol, N.C. State Col, 50-51; from asst. to res. assoc, Ohio State, 51-53, from instr. to assoc. prof. indust. eng, OHIO STATE, 53-65, dir, systs. res. group, 60-63, from supvr. to dir, opers. res. group, 55-60, assoc. prof. MGT. SCI, 65-67, PROF, 67-, consult, deterrance res. proj, Mershon Nat. Security Prog. With Smithsonian Inst, 59- Mem. sub-group, adv. panel psychol. & soc. sci, U.S. Dept. Defense, 58-59; nat. adv. cmt, U.S. Pub. Health Serv. proj, Ga. Inst. Tech; accident prev. study sect, Nat. Insts. Health, 64-68, injury prev. study sect, Nat. Center Urban & Indust. Health Progs, 68; driver ed. eval. study group, Inst. Ed. Develop, 67-; res. adv. cmt, Am. Nurses Found, 67-; div. hosp. & med. facilities, U.S. Pub. Health Serv, 68- U.S.N.R, 44-46, Res, 42-44, 46- AAAS; Soc. Eng. Ed; Human Factors Soc; Opers. Res. Soc; Psychol. Asn; Pub. Health Asn; Inst. Indust. Eng; Inst. Mgt. Sci; Inst. Aeronaut. & Astronaut. Systems research; weapon systems; hospital systems; research teams; information systems; human engineering; the human as a controller and monitor. Address: College of Administrative Science, Ohio State University, Columbus, Ohio 43210.

HOWLAND, LYONS MILLS, b. Detroit, Mich, Apr. 28, 21; m. 49; c. 1. SOCIAL PSYCHOLOGY. B.A, Michigan, 46, M.A, 48. Field supvr. soc. res, surv. res. center, Michigan, 48-54; study dir, mkt. res, Nat. Analyst, Inc, 54-58; res. assoc, Chilton Co, 58-64; head mkt. res, Chem. Abstracts Serv, Ohio State Univ, 64-68; SR. PROJ. DIR, CHILTON RES. SERV, 68- U.S.A.A.F, 43-46, Capt. AAAS; Psychol. Asn; Sociol. Asn; Adult Ed. Asn; Asn. Pub. Opinion Res. Consumer economic behavior; mass communication. Publ: Field methods in sample interview surveys; Techniques and importance of interviewing, Indust. Med. & Surg, 8/52; ed, Training program for German public opinion professionals. Address: Chilton Research Services, 5601 Chestnut St, Philadelphia, Pa. 19139.

HOWREY, DR. E(UGENE) PHILIP, b. Geneva, Ill, Dec. 1, 37; m. 62; c. 3. ECONOMICS. A.B, Drake, 59; Ph.D.(econ), North Carolina, 64. Lectr. ECON, PRINCETON, 63-64, ASST. PROF, 64- Econ. Asn; Economet. Soc. Economic dynamics; time series analysis. Publ: A note on the damping of pure replacement cycles, 65 & Stabilization policy in linear stochastic systems, 67, Rev. Econ. & Statist; Technical change, capital longevity, and economic growth, Am. Econ. Rev, Papers & Proc, 65. Address: Dept. of Economics, Princeton University, Princeton, N.J. 08540.

HOWSON, DR. JOSEPH T(HATCHER), JR, Math, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HOWTON, DR. F. WILLIAM, b. Portland, Ore, Apr. 1, 25; m. 54; c. 2. SOCIOLOGY. B.A, California, Berkeley, 49, M.A, 52, Ph.D.(sociol), 59. Probtn. officer, Contra Costa County Probtn. Dept, Martinez, Calif, 54-55; asst. prof. sociol, Col. of Idaho, 55-57; human factors scientist, Syst. Develop. Corp, Calif, 57-60; asst. prof. SOCIOL, Los Angeles State Col, 60-61; CITY COL. NEW YORK, 61-67, ASSOC. PROF. & CHMN. DEPT, 67- U.S.A, 43-46. Sociol. Asn. Occupations and the self in complex organizations; bureaucracy; professionalism; science, technology and the arts, especially in film making. Publ: Co-auth, Mass society in crisis: social science and social pathology, Macmillan, 64 & Work, self, and society, Funk, (in press); auth, The functionaries: organization people and their problems, Quadrangle, (in press). Address: Dept. of Sociology & Anthropology, City College of New York, Convent at 139th St, New York, N.Y. 10031.

HOY, DR. DON ROGER, b. Lincoln, Nebr, July 18, 31; m. 60. GEOGRAPHY. B.A, Oklahoma, 53, M.A, 54; Ph.D, Illinois, 60. Asst. prof. geog, Ohio State, 60-61; Georgia, 61-65; adv. planning, Agency Int. Develop, Guatemala, 65-67; ASSOC. PROF. GEOG, GEORGIA, 67- Nat. Defense Ed. fel. in Spanish, 63. U.S.A, 54-56, 1st Lt. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Latin America; present agricultural and industrial economic potentialities of the Caribbean zone; future possible form of economic development of various islands and Central American countries. Publ: Land use in the eastern extension of the Lake Agassiz Plain, Land Econ; co-auth, Power resources of Peru, 63 & Latin America and the European Common market, 66. Address: Dept. of Geography, University of Georgia, Athens, Ga. 30601.

HOY, PROF. HARRY E(UGENE), Geog, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HOYENGA, DR. KERMIT T, b. Albany, N.Y, May 4, 34; m. 60. PSYCHOLOGY. A.B, Wittenberg, 61; M.A, Nebraska, 65, Ph.D.(psychol), 67. Instr. PSYCHOL, Nebraska, 66-67; ASST. PROF, WESTERN ILLINOIS, 67- U.S.A, 57-59. Psychol. Asn. Motivation theory, especially concerned with exploration and play behavior in animals; development of social behavior and effects of confinement in subprimates. Publ: Co-auth, Rearing and display variables in sociability, 66 & Sociability behavior and the social environment, 67, Psychonomic Sci. Address: Dept. of Psychology, Western Illinois University, Macomb, Ill. 61455.

HOYME, LUCILE E(LEANOR), Phys. Anthrop, see ST. HOYME, LUCILE E(LEANOR).

HOYT, PROF. BERNARD W(ILLIAM), Indust. Eng, see 11th ed, Phys. & Biol. Vols.

HOYT, PROF. CYRIL J, b. Stewart, Minn, Nov. 22, 05; m. 42; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Minnesota, 28, M.A, 37, Ph.D.(ed. psychol), 44. Asst, Minnesota, Minneapolis, 35-36, ED. PSYCHOL, 38-41; asst. prof, Mankato State Col, 41-46; vis. asst. prof, Chicago, 46-48; asst. prof. & assoc. dir. bur. ed. res, MINNESOTA, MINNEAPOLIS, 48-51, assoc. prof, 51-63, PROF, 63-, dir. ed. res, 51-57. Consult, U.S. Indian Serv, 46-47; U.S. Pub. Health Serv. & Nat. Tuberc. Asn, 47; U.S. Air Force, 52. Statist. Asn; Inst. Math. Statist; Biomet. Soc; Psychomet. Soc; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Educational measurement. Publ: Co-auth, New developmental reading tests, Primary level, 65 & Intermediate grade level, 68, Lyons & Carnahan; Theory of linear hypotheses with applications to educational problems. Address: 330 Burton Hall, University of Minnesota, Minneapolis, Minn. 55455.

HOYT, PROF. DONALD P(AUL), b. Cherokee, Iowa, Sept. 4, 26; m. 50; c. 3. PSYCHOLOGY. B.S, Illinois, 48; M.A, Minnesota, 50, Ph.D, 54. Asst. prof. psychol, Kansas State, 54-58, assoc. prof. 58-61, counsr, 54-56, assoc. dir. counseling center, 56-58, dir, 58-61; assoc. prof. ED, IOWA, 61-66, PROF, 66-; COORDINATOR RES. SERV, AM. COL. TESTING PROG, 64- Vis. prof. California, Berkeley, summer, 66; chief res. consult, Carnegie Cmt. Appraisal & Develop. Jr. Col. Student Personnel Progs, 64-66. Am. Personnel & Guid. Asn. res. award, 53. Ed. Res. Asn; Nat. Coun. Measurement in Ed; Asn. Measurement & Eval. Guid. Col. Personnel Asn.(pres. elect, 67-68). Student personnel work; counseling evaluation; vocational development; higher education. Publ: Co-auth, Outcomes of counseling and psychotherapy, Univ. Minn, 66; auth, Evaluation of group and individual programs in vocational guidance, J. Appl. Psychol; college grades and adult accomplishment, Ed. Record, 66. Address: 736 14th Ave, Coralville, Iowa 52240.

HOYT, PROF. EDWIN C(HASE), b. Commack, N.Y, Aug. 3, 16; m. 53; c. 3. POLITICAL SCIENCE. A.B, Harvard, 38, LL.B, 42; Fiske scholar, Cambridge, 38-39; Ph.D, Columbia, 58. Asst. dist. attorney, New York County, 47-51; lawyer, N.Y, 51-54; lectr. int. law, Columbia, 56-57; vis. asst. prof. govt, Hamilton Col, 57-58, vis. assoc. prof, 58-59; res. fel, law sch, Michigan, 59-60; assoc. prof, NEW MEXICO, 60-66, PROF. POLIT. SCI, 66-, CHMN. DEPT, 60- U.S.A, 42-46, Capt. Polit. Sci. Asn. International law, organizations and relations; American foreign policy; Soviet government. Publ: Unanimity rule in the revision of treaties; National policy and international law: case studies from American canal policy, Monogr. Series World Affairs, Univ. Denver, 66. Address: Dept. of Political Science, University of New Mexico, Albuquerque, N.Mex. 87106.

HOYT, PROF. ELIZABETH E(LLIS), b. Augusta, Maine, Jan. 27, 93. ECONOMICS. A.B, Boston, 13; Wellesley Col, 15-16; A.M, Radcliffe Col, 24, Ph.D, 25. Asst, Nat. Indust. Conf. Bd, N.Y, 17-21; instr. ECON, Wellesley Col, 21-23; assoc. prof, IOWA STATE, 25-27, PROF, 27- Econ. Asn. Consumption economics; standards of living; cultural change; inter-disciplinary analysis of choice-making. Publ: Primitive trade; Consumption in our society; Income of society. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50012.

HOYT, PROF. ELIZABETH S(TONE), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HOYT, DR. HOMER, b. St. Joseph, Mo, June 14, 96; m. 41; c. 1. ECONOMICS, LAW. A.B. & A.M, Kansas, 13; J.D, Chicago, 18, Ph.D, 33. Economist, War Trade Bd, 18-19; statistician, Am. Tel. & Tel. Co, 20-21; assoc. prof. econ, North Carolina, 21-23; Missouri, 24-25; real estate consult, Ill, 25-34; prin. housing economist, Fed. Housing Admin, 34-40; dir. res, Chicago Plan Cmn, 41-43; econ. studies, N.Y. Regional Plan Asn, 43-46; PRES, HOMER HOYT ASSOCS, 46- George L. Schmutz prize, Am. Inst. Real Estate Appraisers, 64. Econ. Asn. Land economics; real estate appraisal; market surveys. Publ: Co-auth, Principles of real estate, Ronald, 5th ed, 66; auth, According to Hoyt, 66. Address: 2939 Van Ness St, N.W, Washington, D.C. 20008.

HOYT, DR. JOHN P(AUL), Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HOYT, DR. JOHN S(TANLEY), JR, b. Yonkers, N.Y, July 28, 23; m. 48; c. 2. ECONOMICS, GOVERNMENT. B.M.E, Syracuse, 48; M.A, George Washington, 54; Ph.D.(econ), American Univ, 59; Harvard, 63. Design engr, N.Y. Cent. R.R, 41-50; plant process engr, Ednalite Optical Co, N.Y, 50-51; sr. exec. res. officer, Cent. Intel. Agency, D.C, 51-65; div. dir. econ. & mgt. sci, North Star Res. & Develop. Inst, Minn, 65-66; ASSOC. PROF. RESOURCE ECON, MINNESOTA, ST. PAUL, 66- Consult. state economist, Minn. State Planning Agency, 66- Mem. bd. dir, Mid-Continent Res. & Develop. Coun. U.S.N, 43-45, Lt.(jg). Econ. Asn; Agr. Econ. Asn. Metropolitan and rural economic and social growth and development; regional economics; industrial location; comprehensive planning; governmental development policies; local and state government organization and consolidation. Address: 4812 Dunberry Lane, Edina, Minn. 55435.

HOYT, PROF. JOSEPH B(IXBY), b. Salem, Mass, May 29, 13; m. 34; c. 3. GEOGRAPHY. B.S, Bowdoin Col, 35; M.A, Harvard, 36, M.A.T, 37; fel, Clark, 48-49, Ph.D, 54. Asst. prof. SOC. SCI, SOUTH. CONN. STATE COL, 49-54, assoc. prof, 54-57, PROF. & CHMN. DEPT, 57- Vis. lectr, Yale, 51, 58. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Historical geography of New England; Central Asia. Publ: Connecticut story; Man and the earth; Salem's West Africa trade 1835-65, Essex Inst. Hist. Collections, 1/66. Address: Johnson Rd, Woodbridge, Conn. 06525.

HOYT, PROF. KENNETH BOYD, b. Cherokee, Iowa, July 13, 24; m. 46; c. 3. COUNSELING, GUIDANCE. B.S, Maryland, 48; M.A, George Washington, 50; Ph.D.(ed. psychol), Minnesota, 54. Teacher & counsr, high sch, Md, 48-49, dir. guid, 49-50; instr. ed. psychol, Minnesota, 51-54; asst. prof. ED, IOWA, 54-57, assoc. prof, 57-61, PROF, 61-, DIV. CHMN, 66- Consult, personnel res. off, Ord. Civilian Personnel Agency, 54-; div. higher ed, U.S. Off. Ed, 59; U.S. Employ. Serv, 60- U.S.A, 43-46. Personnel & Guid. Asn; Psychol. Asn. Counseling process; roles and relationships in guidance; prediction of academic vocational success by means of psychological testing; selection process in industrial personnel work. Publ: Study of the effects of teacher knowledge of pupil characteristics of pupil achievement and attitudes towards class work, J. Ed. Psychol; co-auth, Guidance testing, Sci. Res. Assoc; Drop-out problem in Iowa high schools. Address: Dept. of Education, University of Iowa, Iowa City, Iowa 52240.

HOYT, DR. WILLIAM G, b. Bezenet, France, Nov. 13, 19; U.S. citizen; m. 45; c. 5. PSYCHOLOGY. A.B, George Washington, 51, A.M, 53; Ph.D.(soc. psychol), American Univ, 65. Res. psychologist, personnel res. br, Adj. Gen. Off, Dept. Army, Wash, D.C, 51-56; soc. scientist, Rand Corp, Calif, 56-57; HUMAN FACTORS SCIENTIST, SYST. DEVELOP. CORP, SANTA MONICA, 57- U.S.A, 42-46, 1st Lt. Psychol. Asn; Human Factors Soc; Psychomet. Soc. Automated programmed and computer assisted instruction; system training, analysis, and design; tests and measurement; personnel evaluation and selection. Publ: Co-auth, A new type of test answer sheet, Am. Psychologist, 55; A control chart for errors in IBM test scoring machines, J. Exp. Ed, 59; auth, Influence of the like-neutral-dislike variable on communication-free and communication required task productivity, Dissertation Abstracts, 66. Address: 20302 Mobile St, Canoga Park, Calif. 91306.

HOYT-CAMERON, DR. RUTH, b. Methuen, Mass, June 9, 14; Can. citizen; m. 60; c. 2. PSYCHOLOGY. B.S, Boston, 44; M.A, McGill, 49, Ph.D.(psychol), 52. Head nurse & supvr. pediat, R.I. Hosp, Providence, 36-41; supvr. & teacher pediat. & surg, Children's Hosp, Boston, Mass, 44-46, clin. supvr. pediat, 46-47; clin. supvr. ed. grant lobotomy patients, Ste. Anne's & Queen Mary Dist. Vet. Admin. Hosp, Montreal, 50-51; SR. STAFF OFFICER, human resources res. sect, DEFENSE RES. BD. CAN, 51-67, SCI. SUPPORT STAFF, 67- Summer lectr, Carleton (Can), 55. AAAS; Am. Psychol. Asn; Can. Psychol. Asn; Can. Med. & Biol. Eng. Soc; Int. Cong. Psychol. Physiological psychology; human engineering; military psychology. Publ: Effect of electroconvulsive shock on the body temperature of the rat, Proc. Soc. Exp. Biol. Med, 51; co-auth, Intelligence in schizophrenic patients following lobotomy, Treatment Serv. Bull, 51; Financial assistance available in Canada for students in psychology, Can. Psychologist, Vol. 2a, No. 1, Vol. 3a, No. 1, Vol. 5a, No. 1, Vol. 6a, No. 1 & Vol. 9, No. 1. Address: 113 Leopold Dr, Ottawa, Ont, Can.

HOZIER, DR. ANN QUINTON, b. Norfolk, Va, Aug. 12, 27. CLINICAL PSYCHOLOGY. B.A, Mary Washington Col, Virginia, 49; scholar, Pa. State, 50-51, M.S, 51; U.S. Pub. Health Serv. fel, Kansas, 53-55, 56-57, Ph.D.(clin. psychol), 57. Staff psychologist, West. State Hosp, Staunton, Va, 49-50; chief psychologist, Ment. Health Inst, Cherokee, Iowa, 51-53; trainee clin. psychol, Vet. Admin, 55-56; intern, Topeka State Hosp, Kans, 56-57, staff psychologist, 57-58; CLIN. PSYCHOLOGIST, Counseling Assocs, Wis, 58-59; VET. ADMIN. OUTPATIENT CLINS, LOS ANGELES, CALIF, 59- Psychol. Asn. Disturbances in body image in emotional disorders; intuitive process in psychodiagnostic and psychotherapeutic work; selection of personnel in the mental health fields; development of the sense of reality. Publ: On the sense of reality & Reply to Goldberg, J. Consult. Psychol; co-auth, Public image of psychologists, J. Los Angeles County Psychol. Asn, spring 65. Address: 1031 S. Broadway, Los Angeles, Calif. 90015.

HRUBEC, DR. ZDENEK, b. Prague, Czech, Oct. 14, 30; m. 54; c. 3. PUBLIC HEALTH STATISTICS. A.B, Thiel Col, 52; Sc.D, Pittsburgh, 58. Sr. asst. scientist statist, biomet. br, Nat. Inst. Ment. Health, 57-59; anal. statistician, Atomic Bomb Casualty Cmn, 59-63; STATISTICIAN, FOLLOW-UP AGENCY, NAT. ACAD. SCI-NAT. RES. COUN, 63- Statist. Asn; Pub. Health Asn. Design and evaluation of studies in medical, biological and social science, especially the methodologic aspects of these studies. Publ: Association of health and social problems in individuals and their families, Milbank Mem. Fund Quart; co-auth, Study of adolescents exposed in utero to the atomic bomb, Nagasaki, Japan. I General aspects, Yale J. Biol. & Med, 6/64 & II Growth and development, J. Am. Med. Asn, 5/65. Address: Follow-up Agency, National Research Council, 2101 Constitution Ave, Washington, D.C. 20418.

HSIA, DR. FELIX H, b. China, Dec. 15, 19; U.S. citizen; m. 67. AGRICULTURAL ECONOMICS, ECONOMICS. B.S, Nanking, 42; M.S, Wisconsin, 53, Ph.D.(agr. econ), 60. Res. dir, Man. Crop Ins. Agency, 60-61; asst. prof. ECON, Wayne State Col, 62-63; S.DAK. STATE, 63-64, ASSOC. PROF, 65- Econ. Asn. Comparative economic systems; statistical methods; mainland China. Address: Dept. of Economics, South Dakota State University, Brookings, S.Dak. 57006.

HSIAO, DR. JAMES C, b. Hunan, China, Feb. 4, 34; m. ECONOMICS. B.S, Chung Hsing Univ, Taiwan, 59; M.S, Mich. State, 63; Ph.D.(quant. econ), Connecticut, 67. ASST. PROF. ECON, SOUTH. CONN. STATE COL, 67- Agr. Econ. Asn. Publ: Spatial equilibrium analysis of dairy industry in the northeast region—application of quadratic programming, Agr. Exp. Sta, Univ. Connecticut, 12/67. Address: Dept. of Economics, Southern Connecticut State College, New Haven, Conn. 06515.

HSIAO, DR. KATHARINE H. Y, b. Peking, China, May 13, 23; U.S. citizen; m. 48; c. 3. ECONOMICS. B.A, Southwest. Univ, Kunming, China, 43; univ. fel, Toronto, 47-48; M.A, Columbia, 59, Ph.D.(econ), 66. Instr. Chinese, Can. Embassy, China, 43-46; res. asst. ECON, Nat. Bur. Econ. Res, New York, 52-54; instr, Moravian Col, 56-59; ASST. PROF, INDIANA STATE, 64- Summer res. grant, East Asian Inst, Columbia, 66 & 67. Econ. Asn; Statist. Asn; Asn. Asian Studies. International trade multiplier; monetary policy of communist China. Address: Dept. of Economics, Indiana State University, Terre Haute, Ind. 47809.

HSIAO, DR. LIANG LIN, b. China, July 20, 19; U.S. citizen; m. 48; c. 3. ECONOMICS. B.A, South-West. Assoc. Univ, China, 43; M.A, Michigan, 48; Ph.D.(econ), N.Y. Univ, 66. Res. asst, Nat. Bur. Econ. Res, 52-53; instr.

ECON, Lafayette Col, 53-59; asst. prof, INDIANA STATE, 59-66, ASSOC. PROF, 66-, Ford Found. summer grants, 65 & 66. Res. grant, E.Asian Res. Center, Harvard, winter 67. Econ. Asn; Statist. Asn; Asn. Asian Studies. China's foreign trade; inland freights in China's foreign trade statistics. Address: 2320 Putnam St, Terre Haute, Ind. 47803.

HSIAO, DR. SIGMUND SHIH-LANG, b. Taichong, Taiwan, China, Feb. 10, 35; m. 63; c. 1. PHYSIOLOGICAL PSYCHOLOGY. B.S, Taiwan, 57; M.S, Tulane, 61, Ph.D.(psychol), 64. Teaching asst. PSYCHOL, Taiwan, 57-60; asst, Tulane, 60-64; ASST. PROF, Southeast. La. Col, 64-66; ARIZONA, 66- U.S. Pub. Health Serv. res. grant, 67-68. AAAS; Psychol. Asn. Psychophysiological basis of eating, drinking, and reproductive behavior in animals. Publ: Effect of stimulus variation on sexual satiation in the male albino rat, J. Comp. & Physiol. Psychol, 65; Saline drinking effects on food and water intake, Psychol. Reports, 67; Why does a variety of measures of thirst yield different results?, An explanation developed by studying the effect of an aversive factor on liquid intake in rats, Psychonomic Sci, 68. Address: Dept. of Psychology, University of Arizona, Tucson, Ariz. 85721.

HSIEH, ALICE LANGLEY, b. New York, N.Y, Mar. 30, 22; wid. POLITICAL SCIENCE. B.A, Queens Col.(N.Y), 43; M.A, Clark, 44; Royall-Victor fel, Stanford, 44-45; George Washington, 46-51. Int. rels. officer, Dept. of State, 45-54, mem. U.S. del, Far-East. Cmn, 46-52, spec. asst. to U.S. polit. adv, Supreme Comdr. Allied Powers, Japan, 51, for. serv. officer, 54-55; consult, RAND CORP, 55-58, SR. STAFF MEM. SOC. SCI. DEPT, 58- Vis. prof, Mt. Holyoke Col. & Univ. Massachusetts, spring, 66. Mem. soc. sci. adv. bd, U.S. Arms Control. Control & Disarmament Agency, 64-; regional panel for E.Asia & Pac. Affairs, Dept. of State, 66-; nat. cmt, U.S-China Rels, 67- Asn. Asian studies; Polit. Sci. Asn. Political-military problems in Far East; Asian security issues; Sino-Japanese relations; Communist China's external and military policies; China's military development; party-army relations in China; United States policy toward Asia. Publ: Communist China's strategy in the nuclear era, Prentice-Hall, 62; co-auth, The dispersion of nuclear weapons, Columbia, 64 & Sino-Soviet military relations, Praeger, 66. Address: 111 Via La Circula, Redondo Beach, Calif. 90277.

HSIEH, PROF. CHIAO-MIN, b. China, July 21, 21; m. 47. GEOGRAPHY. B.A, Chekiang, 41; univ. scholar, Syracuse, 49-51, M.A, 50, Ph.D.(geog), 53; U.S. Dept. State grant, 51-53. Asst, inst. geog, Acad. Sinica, Chungking, 41-46; asst. prof. geog, Taiwan Norm. Univ, 46-47; instr, Dartmouth Col, 53-54; res. assoc, center int. studies, Mass. Inst. Tech, 54-56; asst. prof. GEOG, Catholic Univ, 56-59, assoc. prof, 59-64, PROF, 64-67; PITTSBURGH, 67- U.S. Off. Naval Res, geog. br. grant, 55; Nat. Acad. Sci-Asia Found. traveling grant, Int. Geog. Union Regional Conf, Japan, 57; Evening Star res. grant, 59; Am. Coun. Learned Socs. traveling grant, Int. Geog. Union Cong, Stockholm, 60; Nat. Acad. Sci-Nat. Res. Coun. traveling grant, Pac. Sci. Cong, Honolulu, 61; Soc. Sci. Res. Coun. award grants, 61 & 63; Nat. Sci. Found. traveling grant, Pac. Sci. Cong, Tokyo, 66. Vis. lectr, Leeds, 63-64; external exam, Chinese Univ. Hong Kong, 64-67; academician, China Acad, Taiwan, 66- Consult, off. arid land res, Univ. Arizona, 66- Asn. Am. Geog; fel. Am. Geog. Soc. East Asia; population geography; cartography. Publ: Taiwan—Ilha Formosa, Butterworth, 64; China—ageless land and countless people, Van Nostrand, 67; Current economic geography of China, J. Inst. Bankers, 64. Address: Dept. of Geography, University of Pittsburgh, Pittsburgh, Pa. 15213.

HSIUNG, DR. JAMES CHIEH, b. Kaifeng, Honan, China, July 24, 35; m. 61; c. 3. POLITICAL SCIENCE. B.A, Taiwan, 55; M.A, Southern Illinois, 60, fel, 60-61; Ph.D.(polit. sci), Columbia, 67. Ed. news & commentary, Broadcasting Corp. China, 54-55, producer Eng. lang. prog, 56-58; assoc. ed. news, The China News, 57-58; res. asst. journalism, Southern Illinois, 58-60; lectr. East Asian lang. & cultures, Columbia, 61-67; ASST. PROF. POLIT. SCI. & EAST ASIA, N.Y. UNIV, 67-, Arts & Sci. Fund res. grant, grad. sch. arts & sci, 67-68. Lectr, Rutgers, 66-67; res. grant, East Asian Inst, Columbia, 68-69. Polit. Sci. Asn; Soc. Int. Law; Asn. Asian Studies. East Asian studies; universality of international law in the face of new forces and nations emerging on the world scene; conceptual and functional significance of ideology in Communist China. Publ: Provisional measures under Article 40 of the UN Charter and their binding force, Szu yü yen, Taipei, Vol. I, No. 4; Communist China's ideology, Praeger, 68; co-auth, China today, Maryknoll Pub, 68. Address: 88-80 195th Place, Hollis Park Gardens, N.Y. 11423.

HSU, PROF. FRANCIS LANG-KWANG, b. Chuang-Ho, China, Oct. 28, 09; nat; m. 43; c. 2. CULTURAL ANTHROPOLOGY. B.A, Shanghai Univ, 33; Ph.D. (cultural anthrop), London, 40. Psychiat. soc. worker, hosp, Peiping Union Med. Col, 34-37; from asst. prof. to prof. anthrop. & sociol, Nat. Yunnan Univ, 41-44, acting dir, Yunnan Yenching Field Sta, 43-44; lectr. anthrop. & Viking Fund grant, Columbia, 44-45; acting asst. prof. ANTHROP, Cornell, 45-47; asst. prof, NORTHWESTERN, 47-52, assoc. prof, 52-55, PROF, 55-, CHMN. DEPT, 57- Viking Fund grant & Soc. Sci. Res. Coun. fel, 49; Wenner-Gren Found. grant, 51, 55-57; Rockefeller grant, 55-57. Chinese labor consult, U.S. Dept. Labor, 45; consult, Vet. Admin. Res. Hosp, Chicago, Ill, 58-60; Downey Vet. Admin. Hosp, 61- Fel. Anthrop. Asn; Ethnol. Soc. Chinese, Hindu and United States cultures; psychological anthropology; comparative study of cultures; kinship and culture; Japanese kinship and culture. Publ: Psychological anthropology; Clan, caste and club; The study of literate civilizations, Holt, 68. Address: Dept. of Anthropology, Northwestern University, Evanston, Ill. 60201.

HSU, PROF. IMMANUEL C(HUNG-YUEH), Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HSU, PROF. JOHN IH-SEN, b. Chengtu, China, Sept. 22, 21; m. 56; c. 2. INDUSTRIAL ADMINISTRATION. B.A, West China Univ, 45; M.A, Iowa, 49, Ph.D. 54. Acct, New York Cent. R.R. Co, 54-57; asst. prof. indust. admin, VILLANOVA, 57-60, assoc. prof, 60-65, PROF. BUS. ADMIN, 65- Production management and operations research. Publ: Co-auth, Corporate economic responsibility, Adv. Mgt, 4/62. Address: Dept. of Business Administration, Villanova University College of Commerce & Finance, Villanova, Pa. 19085.

HSÜEH, DR. CHÜN-TU, b. Canton, China, Dec. 12, 22; U.S. citizen, M. 52. POLITICAL SCIENCE. LL.B, Chaoyang Univ. Law Sch, China, 46; M.A, Columbia, 53, Ph.D, 58. Lectr, Rutgers, 58; res. assoc. polit. sci, Stanford, 59-62; lectr. hist, Hong Kong, 62-64; vis. assoc. prof. soc. sci, State Univ. Col.N.Y, 64-65; assoc.prof. GOVT.& POLIT, MARYLAND, 65-68, PROF, 68- Assoc, univ. seminar modern China, Columbia, 66- Consult, Res. Anal. Corp, Va, 68- Polit. Sci. Asn; Acad. Polit. Sci; Asn. Asian Studies. Chinese law and politics. Publ: Huang Hsing and the Chinese Revolution, Stanford, 61; The Chinese Communist movement (2 vols), Stanford Univ. Hoover Inst, 60-62; Revolutionary leadership in modern China, Oxford Univ, 69. Address: Dept. of Government & Politics, University of Maryland, College Park, Md. 20742.

HU, PROF. CHARLES Y, b. Singtu, China, Sept. 15, 09; m. 37; c. 3. GEOGRAPHY. B.S, Nanking, 30; fel, California, 34-35, M.A, 36; univ. fel, Chicago, 36-37, U.S. State Dept. fel, 40-41, Ph.D.(geog), 42. Tech. consult. land utilization, Nat. Govt. China, 30-32; mem. Sinkiang Prov. Reconstruct. Cmt, 32-34; lectr. & res. assoc, Chicago, 42-44; res. officer, geogr, & chief of E.Asia desk, U.S. War Dept, 44-47, PROF. mil. geog, strategic int. sch, gen. staff, D.C, 45-47; GEOG, MARYLAND, 46- Consult, United Air Lines Transportation Co, Ill, 42-44, U.S. Dept. Agr, 56- Asn. Am. Geog; Meteorol. Soc. Geography of East Asia; agricultural and forestry land use of Szechuan Basin; economic and military geography and geographic methodology. Address: 6900 Carleton Terr, College Park, Md. 20742.

HU, PROF. SZE-TSEN, Math, see 11th ed, Phys. & Biol. Vols.

HUACO, DR. GEORGE ARTHUR, b. Oakland, Calif, Dec. 21, 27; m. 60; c. 2. SOCIOLOGY. B.A, California, Berkeley, 54, Ph.D.(sociol), 63, M.A, Los Angeles, 59. ASST. PROF. SOCIOL, YALE, 63- Yale Concilium summer res. grant sociol. of novel in Mex, 66; Yale jr. faculty fel. & Soc. Sci. Res. Coun. New York faculty res. fel, 67-68. Qm.C, U.S.A, 54-56. Sociol. Asn. Sociology of film art, literature and Latin American politics, systematic propositional theory. Publ: The sociology of film art, Basic Books, 65. Address: Dept. of Sociology, Yale University, 1965 Yale Station, New Haven, Conn. 06520.

HUANG, PROF. DAVID S(HIH-LI), b. Taipei, China, Sept. 15, 30; m. 61; c. 2. ECONOMICS. B.A, Washington (Seattle), 53, M.A, 54, Ph.D, 61. Asst. math, Washington (Seattle), 57-58, 59-60, res. assoc. ECON, 58-59; proj. asst, Wisconsin, 60-61; asst. prof, Texas, 61-65; assoc. prof, SOUTHERN METHODIST, 65-66, PROF, 66- Vis. prof, Chicago, 67-68. Econ. Asn; Economet. Soc; Statist. Asn. Consumer demands for durable goods and installment credit; study of mortgage and housing markets. Publ: Introduction to the use of mathematics in economic analysis, Wiley, 64; co-auth, Further properties of efficient estimators for seemingly unrelated regression equations, Int. Econ. Rev; auth, The short-run flows of nonfarm residential mortgage credit, Econometrica, 4/66. Address: Dept. of Economics, Southern Methodist University, Dallas, Tex. 75222.

HUANG, DR. JOE C(HOU), b. Ningpo, China, June 27, 29; m. 63. POLITICAL SCIENCE. B.A, Taiwan, 54; M.A, Nat. Chengchi Univ, 58; M.A, Southern Illinois, 60, Ph.D.(polit. sci), 63. Asst. prof. POLIT. SCI, TOUGALOO COL, 63-67, ASSOC. PROF, 67- Polit. Sci. Asn. Political theory; international politics; China studies. Publ: Transl. into Chinese, The public philosophy, Chinese Culture Pub. Found, Taipei, 58; auth, Red sun or red star, China Today, 62. Address: Dept. of Political Science, Tougaloo College, Tougaloo, Miss. 39174.

HUANG, PROF. KAI-LOO, b. Indonesia, 12; m. 39; c. 2. ECONOMICS, POLITICAL SCIENCE. LL.B, Tsing Hua, China, 34, fel, 35-38; M.A, Wisconsin, 36, Ph.D.(econ, polit. sci), 38. Assoc. prof. econ, Amoy, 39-41, prof, 41-45; sr. economist, Chinese Nat. Relief & Rehab. Admin, 46-48; econ. affairs officer, UN Econ. Cmn. Asia & Far East, 48-49; prfnl. mem. manpower div, Int. Labour Off, 49-52; sr. economist, commercial banks, Singapore, 53-65; vis. prof. econ. & res. mem, econ. interdependence of Southeast Asia, Wisconsin, 65-66; PROF. ECON. & BUS. ADMIN, MORAVIAN COL, 66- Mem, Cmt. Minimum Standard of Livelihood, Singapore, 57-58. AAAS; Econ. Asn; Asn. Comp. Econ; Asn. Evolutionary Econ; Asn. Asian Studies. International and comparative economics; economic development; China and Southeast Asia. Publ: General economics: for Asian readers in particular, Singapore, 63; Problems of financing small industries, UN, 65; Economy of Communist China, West. Polit. Quart, 3/66. Address: P.O. Box 1054, Bethlehem, Pa. 18018.

HUANG, PROF. LUCY JEN, Sociol, Soc. Psychol, see 10th ed, Phys. & Biol. Vols. Latest known address: 903 Dolphin Ave, Bloomington, Ill. 61701.

HUBARD, PROF. ROBERT THRUSTON, JR, b. Fayetteville, W.Va, Nov. 25, 14. POLITICAL SCIENCE. A.B, Hampden-Sydney Col, 35; LL.B, Virginia, 42. Attorney at law, 43-46; asst. prof. POLIT. SCI, HAMPDEN-SYDNEY COL, 46-59, ASSOC. PROF, 59-, HEAD DEPT, 54-, CHMN. DIV. SOC. SCI, 67- Polit. Sci. Asn. American government; American constitutional law; comparative government. Address: Dept. of Political Science, Hampden-Sydney College, Hampden-Sydney, Va. 23943.

HUBBARD, DR. HAROLD G(ENE), b. Monterey Park, Calif, June 20, 32. SOCIAL PSYCHOLOGY. B.A, California, Los Angeles, 54; Sol Dreyfus scholar & M.A, Southern Methodist, 55; George Fry & Assocs. fel, Southern California, 55-60, Ph.D.(sociol), 60. Psychometrician, Am. Inst. Res, Tex, 54-55; CONSULT, FRY CONSULT, INC, LOS ANGELES, 55-; ASSOC. PROF. SOCIOL, CALIF. STATE COL. LONG BEACH, 62- Res. asst, Tracy-Locke Advert, Tex, 54-55; lectr, exten. div, Los Angeles State Col, 58-62; Southern California, 59-60. U.S.A.R, 58-63, 1st Lt. AAAS; Psychol. Asn; Sociol. Asn. Career recruitment and development process; attitude and opinion measurement; organizational behavior; executive personnel assessment. Publ: Career choice of successful business executives, Personnel & Guid. J, 10/65. Address: California State College at Long Beach, Long Beach, Calif. 90804.

HUBBARD, H(ARVEY) H(ART), Elec. Eng, see 11th ed, Phys. & Biol. Vols.

HUBBARD, PROF. J(OSHUA) C(LAPP), b. Boston, Mass, Feb. 13, 07. ECONOMICS. A.B, Harvard, 31, A.M, 33, Ph.D, 38. Lectr. ECON, Pomona Col, 40-42; instr, Wesleyan, 42-43; lectr, BRYN MAWR COL, 43-44, asst. prof, 44-46, assoc. prof, 46-59, PROF, 59- Econ. Asn. Publ: Basic ideas of economics; Creation of income by taxation. Address: Dept. of Economics, Bryn Mawr College, Bryn Mawr, Pa. 19010.

HUBBARD, DR. RUTH M(ARILLA), b. Charleston, Ill, Sept. 22, 02. CLINICAL PSYCHOLOGY. A.B, Oberlin Col, 24; fel, Minnesota, 24-27, A.M, 25, Ph.D.(psychol), 27. Rockefeller fel. child develop, teachers col, Columbia, 27-28; psychologist, Child Guid. Clin, Cleveland, Ohio, 28-30; Rochester, N.Y, 30-34; Kalamazoo State Hosp, Mich, 34-35; Family Serv. Soc, 35-48; chief clin. psychologist, Vet. Admin. Hosp, 48-66; RETIRED. Lect, grad. sch. appl. soc. sci, Western Reserve, 29-30; instr, sch. nursing, Strong Mem. Hosp, Rochester, N.Y, 32-34; Kalamazoo State Hosp, 34-35; lectr, inst. pub. & soc. admin, Michigan, 36, 39-48; soc. pub. affairs & soc. work, Wayne State, 36-42. Dipl, Am. Bd. Exam. Clin. Psychol. Psychol. Asn. Measurement of interests; reliability of infant tests; psychotherapy with psychotic patients. Address: 3605 Hubby Ave, Waco, Tex. 76710.

HUBER, PROF. JACK TRAVIS, b. San Antonio, Tex, Nov. 21, 18; div. CLINICAL PSYCHOLOGY. B.A, Texas, 40; M.A, Columbia, 47, Ph.D, 52. Trainee clin. psychol, Vet. Admin, 48-50; dir. psychiat. clin, Voc. Adv. Serv, 50-53; consult, Rohrer, Hibler & Replogle, 53-55; prof. Ph.D. prog. in clin. psychol. & dir. psychol. serv, Adelphi Col, 55-67; PROF. ED, HUNTER COL, 67- Lectr, City Col. New York, 58-60. Consult, Richardson, Bellows, Henry & Co, 55-60; Voc. Adv. Serv, 62- Dipl, Am. Bd. Exam. Prfnl. Psychol, 61. Psychol. Asn; fel. Soc. Proj. Tech; Acad. Psychother. Personality theory; psychotherapy; psychodiagnostics. Publ: Report writing in psychology and psychiatry, Harper, 61; Through an eastern window, Houghton, 67 & Bantam, 68. Address: 310 E. 55th St, New York, N.Y. 10022.

HUBER, PROF. J(OHN) RICHARD, Econ, see 10th ed, Soc. & Behav. Vols.

HUBERT, PROF. CLAIR E(DWARD), b. York, Pa, June 28, 10; m. 43; c. 2. PSYCHOLOGY. B.S, Ursinus Col, 33; M.A, Pennsylvania, 34, Ph.D.(psychol), 51. Asst. instr. PSYCHOL, Pennsylvania, 36-38; instr, 38-42; asst. prof, CINCINNATI, 47-52, assoc. prof, 52-62, PROF, 62- U.S.A, 42-46, Capt. Psychol. Asn. General psychology; experimental aesthetics; human relations. Publ: Aesthetic preference and certain aspects of personality. Address: 6841 Marvin Ave, Cincinnati, Ohio 45224.

HUCK, DR. SUSAN L. M, b. New York, N.Y, Sept. 7, 30. GEOGRAPHY, POLITICAL SCIENCE. B.A, Syracuse, 51; M.A, Michigan, 54; Ph.D.(polit. geog), Clark, 62. Instr. geog, Washington Col, 53-56; Md. State Col, Towson, 59-60; San Diego State Col, 61; asst. prof, Hunter Col, 62-63; sociol, Grove City Col, 66-68; ASSOC. PROF. SOC. SCI, CHESAPEAKE COL, 68- Am. Geog. Soc. Political geography; Latin America. Address: R.D. 1, Church Hill, Md. 21623.

HUCKE, DOROTHY MARIE, b. Brooklyn, N.Y, Jan. 14, 27. STATISTICS. B.A, St. Joseph's Col. for Women, 49; M.S, Columbia, 58; M.S, N.Y. Univ, 63. Lab. technician biol. qual. control, CHAS. PFIZER & CO, INC, 50-51, lab. supvr, 51-54, statistician, 54-64, supvr. statist. serv, 64-67, MGR. QUAL. CONTROL. SERV, 67- Statist. Asn; Soc. Qual. Control. Application of statistics to problems in research; production and control of biological and chemical products; automation of microbiological assays in a control laboratory. Publ: Applications of quality control in biological assays, Proc. Am. Soc. Qual. Control; Automation in turbidimetric assays, Antibiotics Ann; Assay automation and data processing. Address: 82-44 63rd Ave, Rego Park, N.Y. 11379.

HUCKSHORN, PROF. ROBERT J(ACK), b. Houston, Mo, Oct. 7, 28; m. 51; c. 3. POLITICAL SCIENCE. B.S, Southwest Mo. State Col, 49; Missouri, 51; M.A, Iowa, 54, Ph.D, 56. Instr. polit. sci, California, 56-57; asst. prof, Idaho, 57-63; assoc. dir. bur. pub. affairs res, 59-63; assoc. dir, Nat. Center for Ed. in Polit, 63-64; PROF. AM. GOVT. & POLIT, FLORIDA ATLANTIC, 66- Soc. Sci. Res. Coun. grant, 58; Citizenship Clearing House-Eagleton Found. fel, 60; nat. cmt. faculty fel. from Nat. Coun. Ed. in Polit, Republican Nat. Cmt, 62-63; Haynes Found. summer res. asst, bur. govt. res, California, Los Angeles, 57. Mem, Republican Coord. Cmt. Task Force on Nat, State & Local Govt. Affairs & policy adv. cmt, Republican Governors' Asn, 64-65. Polit. Sci. Asn; Soc. Pub. Admin. American and state government politics and administration; legislative processes. Publ: Co-auth, Decision-making in a small delegation, In: Inside politics: the national conventions, 1960, Oceana, 62; American government annual 1964-65, Holt, 65; auth, Decision-making stimuli in the state legislative process, West. Polit. Quart, 3/65. Address: Dept. of Political Science, Florida Atlantic University, Boca Raton, Fla. 33432.

HUDDLE, DR. DONALD L(eROY), b. Los Angeles, Calif, Jan. 1, 33; m. 58; c. 3. ECONOMICS. B.S, California, Los Angeles, 59, M.A, 60; Ph.D.(econ), Vanderbilt, 64. Instr. econ, Vanderbilt, 63-64; asst. prof, Rice, 64-66; res. economist, Yale, 66-67, vis. res. economist, econ. growth center, 66-67; ASSOC. PROF. ECON, RICE, 67- Latin Am. Studies summer grant, Vanderbilt, 64. U.S.A.F, 52-56, Res, 56-, Capt. Am. Econ. Asn; Royal Econ. Soc. Exchange systems, commercial policy and economic growth and development, especially of Latin America. Publ: Furtado on exchange control and development, 4/67 & The Brazilian industrialization, 7/67, Econ. Develop. & Cultural Change; Fluctuating exchange rates and economic development, Getulio Vargas Found, 68. Address: Dept. of Economics, Rice University, Houston, Tex. 77001.

HUDDLE, DR. FRANKLIN P(IERCE), b. New London, Conn, July 28, 13; m. 36; c. 5. ECONOMICS, GOVERNMENT. B.F.A, Arizona, 37; A.M, Brown, 42; M.A, American Univ, 61, Ph.D.(govt), 65. Dir. news bur, Brown, 42-43, staff assoc. ed. res. reports, 43-46; econ. ed, U.S. Munitions Bd, 47-49; conserv. specialist, Off. Secy. Defense, 49-60; arms control specialist, Off. Dir. Defense Res. & Eng, 61-62; sr. staff scientist, Hughes Aircraft Co, Calif, 62-66; SCI. & TECH. SPECIALIST, SCI. POLICY RES. DIV, LEGIS. REFERENCE SERV, LIBRARY CONG, 67- Lectr, Calif. State Col. Fullerton, 66-67. Consult, Off. Emergency Mgt, Exec. Off. President, 62; System Develop. Corp, Calif, 66. Soc. Metals; Soc. Mil. Eng; Acad. Polit. & Soc. Sci. Mobilization of industry; employment of metals by industry; substitute materials analysis; regional development; applied materials research; arms management and control. Publ: Conservation of war materials; Summary of recommendations for research and development in materials; Contributions of science and technology to federal crime insurance, Senate Select Cmt. Small Bus. Report, 8/67. Address: 2405 Nemeth Court, Alexandria, Va. 22306.

HUDDLESTON, DR. EDITH M(ARY), b. Washington, D.C, Jan. 3, 18. PSYCHOLOGY. A.B, George Washington, 39, A.M, 40; Ph.D.(psychol), N.Y. Univ, 52. Ed. test. specialist, Col. Entrance Exam. Bd, 42-47; Ed. Testing Serv, 48-58; ed. res. specialist, U.S. Off. Ed, 58-64; PSYCHOLOGIST, NAT. INST.MENT. HEALTH, 64- Psychol. Asn; Psychomet. Soc; Coun. Measurement in Ed.(ed, Yearbook, 55-61); Ed. Res. Asn. Educational and psychological research and measurement. Publ: Measurement of writing ability at the college-entrance level: objective vs. subjective testing techniques, J. Exp. Ed, 3/54; Test development on the basis of content validity, Ed. & Psychol. Measurement, fall 56. Address: 5013 Elm St, Bethesda, Md. 20014.

HUDDLESTON, HAROLD F(RANK), b. Rock Island, Ill, June 12, 20; m. 45; c. 2. MATHEMATICAL STATISTICS. A.B, Augustana Col, 42; M.A, Mich. State, 48; U.S. Dept. Agr. fel, Texas A&M, 65-66. Meteorologist, U.S. Weather Bur, Pac. region & Wash, D.C, 43-47; anal. statistician, agr. estimates div, U.S. Dept. Agr, 48-50; math. statistician, sampling sect, agr. div, U.S. Bur. Census, 50; res. economist, commodity exchange authority, U.S. DEPT. AGR, 50-52, math. statistician, res. & develop. staff, agr. estimates div, 52-61, HEAD RES. GROUP, RES. & DEVELOP. BR, 62- Statist. Asn; Inst. Math. Statist. Sampling methodology; crop forecasting; operations research. Publ: Optimum sample allocation to strata using convex programming; Point sampling surveys for potato acreage in Colorado's San Luis Valley; Uses of remote sensing for livestock inventories. Address: 3507 Tyler St, Falls Church, Va. 22041.

HUDGINS, PROF. BERT, b. Farmingdale, Ill, Jan. 6, 87; m. 18; c. 2. GEOGRAPHY. B.Ed, Ill. State Norm. Sch, 15; M.S, Chicago, 21; Ph.D, Clark, 30. Teacher, pub. sch, 07-09, supt, 13-14, prin, high sch, 15-18; prof. GEOG, WAYNE STATE, 20-56, head dept. geog. & geol, 20-56, EMER. PROF, 57- U.S.N, 18. Asn. Am. Geog; fel. Am. Geog. Soc; Nat. Coun. Geog. Ed. Water supply of cities; geography of Saint Clair Delta. Publ: Michigan: geographic backgrounds in the development of the commonwealth; co-auth, Geography of North America. Address: 16609 Oakfield, Detroit, Mich. 48235.

HUDSON, DR. ALFRED BACON, b. Hilo, Hawaii, Jan. 6, 32; m. 56; c. 2. ANTHROPOLOGY, LINGUISTICS. A.B, California, Berkeley, 58; Ford Found. fel, Cornell, 60-61, 62-65, univ. fel, 61-62, Ph.D.(anthrop), 67. ASST. PROF. ANTHROP, MICH. STATE, 65- U.S.A.F, 51-55. Anthrop. Asn; Soc. Ethnomusicol; Asn. Asian Studies. Ethnology of Indonesian Borneo; ethnolinguistic classification of Bornean peoples; anthropology and cultural ecology of Southeast Asia; non-unilineal descent group systems; national language problems in multi-lingual states; overseas Chinese. Publ: Death ceremonies of the Padju Epat Ma'anjan Dajaks, Sarawak Mus. J. Spec. Monogr, 11/66; Barito isolects of Borneo: comparative reconstruction and lexicostatistics, Cornell Southeast Asia Prog. Data Paper, 67; co-auth, Telang: a Ma'anjan village of Central Kalimantan, In: Villages in Indonesia, Cornell, 67. Address: 814 Oak St, East Lansing, Mich. 48823.

HUDSON, PROF. BRADFORD BENEDICT, b. San Jose, Calif, Dec. 8, 06; m; c. 1. PSYCHOLOGY. A.B, Stanford, 30; Ph.D.(psychol), California, 47. Nat. Defense Res. Cmt. asst, Princeton, 41-43; res. assoc, Tufts Col, 43-44; staff psychologist, Off. Strategic Serv, 44-45; chief personnel selection & surv. sect, Cent. Intel. Agency, 47-48; from asst. prof. to PROF. PSYCHOL, RICE, 48- Dir, Crosscultural Res. Group, Mid. East, 53-58; mem. staff, Nat. Sci. Found, 61-62. AAAS; fel. Psychol. Asn; Soc. Psychol. Study Social Issues. Group behavior under stress; learning. Publ: One-trial learning in the domestic rat, Genetics Psychol. Monogr; Anxiety in response to the unfamiliar & Cross-cultural studies in the Arab Middle East and United States, J. Soc. Issues. Address: Dept. of Psychology, Rice University, Houston, Tex. 77001.

HUDSON, DR. DARRIL, b. Okla, Dec. 18, 31. POLITICAL SCIENCE. B.A, California, Berkeley, 54; M.Sc, London Sch. Econ, 60, Ph.D.(int. rels. & orgns), 65. Lectr. POLIT. SCI, European div, Maryland, 59-67; vis. assoc. prof, Maryland State Col, Princess Anne, 67-68; ASST. PROF, CALIF. STATE COL, HAYWARD, 68- Alexander von Humboldt fel, Heidelberg, 67-68. Mil.Intel, U.S.A, 55-58, Res, 58-68, Capt. Polit. Sci. Asn; Int. Studies Asn. International non-governmental organizations as international pressure groups, especially the World Council of Churches and its predecessors. Publ: The ecumenical movement in world affairs, National Press, 68; Towards an international ethic, Marab, spring 67; Zum 60. Bestehen der Oekumenischen Bewegung, Junge Kirche, 1/68. Address: Dept. of Political Science, California State College, Hayward, Calif. 94542.

HUDSON, DR. DAVID V(ENABLE), JR, b. Peking, China, Feb. 1, 27; m. 52; c. 1. INDUSTRIAL ECONOMICS. B.S. & M.S, Utah, 48; Ph.D, Mass. Inst. Tech, 61. Supvr. statist. anal, Am. Airlines, Inc, 50-56; statist. economist, Humble Oil & Ref. Co, 56-66; SR. ECON. & FINANCIAL ANALYST, FINANCE & PLANNING DEPT, ESSO STANDARD EAST. INC, 66- U.S.N, 45-46. Econ. Asn. Transportation and public utility economics, industrial growth and development; government regulation of business. Publ: Economics of the natural gas pipeline industry; a case study. Address: 16 Blue Spruce Dr, Upper Saddle River, N.J. 07458.

HUDSON, PROF. G(EORGE) DONALD, b. Osaka, Japan, Apr. 26, 97; U.S. citizen; m. 26; c. 3. GEOGRAPHY. Ph.B, Chicago, 25, M.A, 26, fel, 31-33, Ph.D.(geog), 34. Dir. mid. sch. & assoc. prof. ed, American Univ. Beirut, 26-29; dean, Blackburn Col, 29-30; prof. geog, Wis. State Teachers Col. (Whitewater), 33-34; chief geog. sect, Tenn. Valley Authority, 34-37, chief div. land planning, 37-39; prof. geog, Northwestern, 39-51, chmn. dept, 45-

51, assoc. ed. coordinator, V-12 prog, 42-43, chmn. admin. cmt, bachelor arts prog, 43-45, acting dean, lib. arts col, 43, 44; prof. GEOG. & chmn. dept, WASHINGTON (SEATTLE), 51-67, EMER. PROF, 67- Geog. ed, Encyclop. Britannica, 41- Consult, Nat. Resources Planning Bd, 39-42; res. & develop. bd, U.S. Dept. Defense, 50-52. U.S.N, 17-19. Asn. Am. Geog. (pres, 50-51). Address: Dept. of Geography, University of Washington, Seattle, Wash. 98115.

HUDSON, PROF. GERALD T(HOMAS), b. Hillsdale, Ill, Jan. 13, 12; m. 51; c. 1. ECONOMICS, SOCIOLOGY. B.S, Illinois, 36; M.S, Wisconsin, 41; Ph.D, Cornell, 43. Instr, Cornell, 43; asst. prof. Colo. Agr. & Mech. Col, 43-47; PROF. RURAL SOCIOL, COL. AGR. & HOME ECON, ARKANSAS, 47-, asst. dean col. agr, 47-56, assoc. dean col. agr. & home econ, 56-59, dean, 59-65. Rural sociology; agricultural economics; social status of rural households living in three selected low-income areas of New York. Address: Division of Agriculture, University of Arkansas, Fayetteville, Ark. 72701.

HUDSON, PROF. HARRIET D(UFRESNE), b. Kirby, Pa, July 14, 12. ECONOMICS. A.B, Wellesley Col, 33; A.M, Chicago, 36, Ph.D, 50; LL.D, Blackburn Col, 57. Instr, Pine Manor Jr. Col, 39-42; Mt. Holyoke Col, 42-47; asst. prof, ECON, Illinois, 48-53; PROF, RANDOLPH-MACON WOMAN'S COL, 53-, DEAN, 53- Regional dir, Tuition Exchange, 58-; vis. scholar, California, Los Angeles, 67. Trustee, Col. Entrance Exam. Bd, 63-66. Mem, Nat. Adv. Health Manpower Coun. Econ. Asn; Indust. Rels. Res. Asn. Labor economics; progressive miners of America. Address: 232 Norfolk Ave, Lynchburg, Va. 24503.

HUDSON, PROF. H(ERSEL) W(ENDELL), b. St. Joseph, Ill, Jan. 4, 96; m. 30; c. 2. ECONOMICS. B.S, Illinois, 20, M.S, 27, Ph.D, 33. Instr. econ, Butler, 27-28, asst. prof, 31-33; asst. prof. econ. & mkt, Denver, 29-30; pres. & prof. econ, Danville Jr. Col, Ill, 33-35; prof. ECON. & head dept, KENT STATE, 35-66, EMER. PROF, 66- Consult, 31-35. U.S.A, 18, 2nd Lt. Econ. Asn. Economic effects of the quality of water; soap consumption. Address: 215 Overlook Dr, Kent, Ohio 44240.

HUDSON, PROF. JAMES F(RANCIS), b. Plain Dealing, La, Sept. 8, 20; m. 44; c. 5. AGRICULTURAL ECONOMICS. B.S, La. State, 42, M.S, 45; Ph.D.(agr. econ), Iowa State, 59. Asst. AGR. ECON, LA. STATE, 42-48, asst. prof, 48-59, assoc. prof, 59-64, PROF, 64- Statistician, cotton div, U.S. Dept. Agr, 43-48. Ed, La. Rural Economist. Agr. Econ. Asn.(award, Farm Econ. Asn, 60). Marketing of cotton and cottonseed; ginning research; Crawfish marketing research; feasibility of peeling plants. Publ: Pricing cottonseed for crushing, Bull, La. Agr. Exp. Sta; co-auth, Use of cotton fiber tests in marketing cotton; Cotton gin efficiency, La. Exp. Sta, 12/63. Address: Dept. of Agricultural Economics, Louisiana State University, Baton Rouge, La. 70803.

HUDSON, DR. JAMES R, b. Cleveland, Ohio, Jan. 28, 33; m. 63. SOCIOLOGY. B.A, Columbia, 58; M.A, Michigan, 60, Ph.D, 65. Res. assoc, Russell Sage Found, N.Y, 63-64; Bryn Mawr Col, 64-66; ASST. PROF. SOCIOL, STATE UNIV. N.Y. STONY BROOK, 66- Summers, interviewer-consult, sch. criminol, California, Berkeley, 66, Res. Found. faculty fel, State Univ. N.Y, 67. Consult, Ford Found, 67. Intel.C, U.S.A, 56-59. Sociol. Asn; Soc. Study Social Probs. Accountability of public bureaucracies. Publ: Co-auth, Administrative implications of integration plans for schools, In: Schools in a changing society, Macmillan, 66; The Philadelphia police advisory board, In: The police and the community, Regents of Univ. California, 10/66; auth, On becoming a college teacher, Ed. Rev, summer 66. Address: 7 Hawkins Ave, East Setauket, N.Y. 11733.

HUDSON, PROF. JOHN W(ILLIAM), b. Cleveland, Ohio, Mar. 26, 26; m. 48; c. 3. SOCIOLOGY. B.S, Ohio State, 49, M.A, 50, Ph.D, 56. Instr. marriage prep. & family life ed, Merrill-Palmer Sch, 52-57, chmn. family life prog, 57-62; assoc. prof. SOCIOL, Wayne State, 62-63; ARIZONA STATE, 64-67, PROF, 67- Sociol. Asn; fel. Asn. Marriage Counsrs; Acad. Psychother; Psychol. Asn. Group and family psychotherapy. Publ: Co-auth, Tri-county cancer knowledge study, Wayne State Univ, 63; auth, Value issues in marital counseling, In: Marital counseling psychology, ideology science, C.C. Thomas, 67. Address: 5524 N. Quail Run Rd, Scottsdale, Ariz. 85251.

HUDSON, DR. MICHAEL C(RAIG), b. New Haven, Conn, June 2, 38; m. 63. POLITICAL SCIENCE. B.A, Swarthmore Col, 59, M.A, Yale, 60, Ph.D. (polit. sci), 64; cert. Arabic, Princeton, 61. Teacher, Am. Community Sch, Beirut, 62-63; instr. POLIT. SCI, Swarthmore Col, 63-64; ASST. PROF, BROOKLYN COL, 64- Overbrooke prize, Yale, 61; Yale, Harvard & Am. Philos. Soc. res. grants Mid. East. polit. studies, 62, 68; res. assoc, center int. affairs, Harvard, 65-66; polit. data prog, Yale, 66-68. Polit. Sci. Asn; Mid. East Inst; Mid. East Studies Asn. Comparative politics; theories of political modernization; Middle Eastern politics; international relations; quantitative methodology. Publ: Precarious republic: political modernization in Lebanon, Random, 68; co-auth, World handbook of political and social indicators, Yale, rev. ed, 69; auth, A case of political underdevelopment, J. Polit, 11/68. Address: Dept. of Political Science, Brooklyn College, Bedford Ave. & Ave. H, Brooklyn, N.Y. 11210.

HUDSON, PROF. PHILIP G(RAYDON), b. Phoenix, Ariz, Aug. 27, 09; m. 34; c. 1; m. 43; c. 2. ECONOMICS. B.S, Arizona, 30, M.S, 33; Ph.D, Illinois, 38. Instr, ARIZONA, 38-42, asst. prof. ECON, 46-48, assoc. prof, 48-53, PROF, 53-, DIR. GRAD.STUDIES BUS. & PUB. ADMIN, 65-, head dept. econ, 59-65. Head mech. rubber goods unit, Off. Price Admin, 42-43. U.S.N.R, 43-46, Lt. Comdr. Econ. Asn. Use of statistical methods to measure the physical volume of production; economy of Arizona. Address: College of Business & Public Administration, University of Arizona, Tucson, Ariz. 85721.

HUDSON, DR. ROBERT I(RWIN), b. Minneapolis, Minn, Mar. 18, 25; m. 57; c. 3. PSYCHOLOGY, EDUCATION. B.A, Minnesota, 47, M.A, 48; Ed.D, Mich. State, 55. Counsr. voc. rehab, State Dept. Ed, Minn, 50; asst. guid, counsr. & psychometrist, counseling center, Mich. State, 51-52; voc. counsr, Highland Park Guid. Center, Mich, 52-56; counseling psychologist, Ferris Inst, 57-59, dir. counseling center, 59-62; teacher psychol. & counseling psychologist, Bemidji State Col, 62-63, dir. counseling & remedial servs, 63-64; assoc. prof. ED, MANITOBA, 64-66, PROF, 66-, DIR. COUNSELING SERV, 64- Assoc. prof. exten, Mich. State, 61- U.S.A, 43-46. Psychol. Asn; Personnel & Guid. Asn; Nat. Soc. Study Ed. Student counseling; preparation of personnel workers for colleges and secondary schools; technician training; management development. Publ: Improving placement through cooperative programs, J. Col. Placement; Vocational guidance in the Junior College, Jr. Col. J; Catalytic function of the counselor, Personnel & Guid. J. Address: Counselling Service, University of Manitoba, Winnipeg, Man, Can.

HUDSON, DR. ROLAND V, Psychol, see 10th ed, Soc. & Behav. Vols.

HUDSON, DR. WELLBORN ROYSTON, Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

HUDSON, WILLIAM J(AMES), Bus. & Transportation Econ, see 10th ed, Soc. & Behav. Vols.

HUEBNER, WILLIAM ANTHONY, b. New York, N.Y, Aug. 18, 22; m. 46; c. 1. BUSINESS ADMINISTRATION. A.B, Dartmouth Col, 47; M.A, N.Y. Univ, 49, M.S, 55; M.B.A, Rutgers, 61. Jr. underwriter burglary ins, Nat. Surety Corp, 41-42, 45; underwriter, Minner & Barnett, Inc, 45-47; instr. mkt, Fordham, 49-51; asst. prof. mkt. & retailing & asst. dir. retail training, Marshall, 51-54; asst. prof. MGT. & MKT, ST. PETER'S COL.(N.J), 54-61, ASSOC. PROF, 61-, CHMN. DEPT, 59- Lt.(jg), U.S.N.R, 42-45. Mgt. Asn; Mkt. Asn. Buying habits and motives in wholesaling and retailing fields; objectives and techniques of retail advertising strategy. Publ: Co-auth, Series of retailing definitions, Women's Wear Daily, 54; auth, Walking retail advertisements—satisfied retail customers, 57 & co-auth, Automatic purchasing of ethical pharmaceuticals—boon or bane, 60, Ramsees. Address: Dept. of Management & Marketing, School of Business Administration, St. Peter's College, Jersey City, N.J. 07306.

HUEGLI, DR. ALBERT G(EORGE), b. Detroit, Mich, June 7, 13; m. 41; c. 2. POLITICAL SCIENCE. B.D, Concordia Sem, 36; M.A, Michigan, 37; A.B, Wayne, 38; Ph.D.(polit. sci), Northwestern, 44; LL.D, Concordia Teachers Col.(Ill), 64. Asst. prof. hist. & polit. sci, St. Johns Col.(Kans), 38-40; Concordia Teachers Col.(Ill), 40-44, prof, 44-61, dean students, 44-55, acad. dean, 55-61; V.PRES. ACAD. AFFAIRS, VALPARAISO, 61- Vis. lectr, Northwestern, 47-54. Consult. & exam, N.Cent. Asn. Cols. & Sec. Schs, 61-; chmn. bd. higher ed, Mo. Synod, Lutheran Church, 67- Polit. Sci. Asn. Christian citizenship in a democracy; church-state relations. Publ: Co-auth, Government for Americans; ed. & auth, Church and state under God, Concordia, 64. Address: Valparaiso University, Valparaiso, Ind. 46383.

HUEGY, PROF. HARVEY W(ILBORN), b. Highland, Ill, Aug. 8, 03; m. 25; c. 1. MARKETING. B.S, Illinois, 24, M.S, 29, Ph.D.(econ), 34. Mem. staff, Franklin County Investment Co, Christopher, Ill, 25-28; Universal Credit Co, St. Louis, Mo, 29-30; from asst. instr. to prof. MKT, ILLINOIS, URBANA, 30-65, head dept, 55-63, EMER. PROF, 65- Vis. prof, Texas, 65-66; Southern Illinois, 66-67; Missouri, 67-68. Bus. specialist, Off. Price Admin, D.C, 42-44; economist, U.S. Dept. Commerce, 44-45; consult, Corras Tractalo Teorante, Dublin, Ireland, 52; Alderson & Sessions, Pa, 51- Econ. Asn; Mkt. Asn.(secy, 46-48; pres, 49). General marketing; competitive and price policies; marketing management. Publ: Elements of marketing; Credit problems. Address: Dept. of Marketing, University of Illinois, Urbana, Ill. 61801.

HUELSTER, DR. LOWELL F(REDERICK), Econ, see 10th ed, Soc. & Behav. Vols. Latest known address: 2311 N.E. 36th St, Apt 1F, Lighthouse Point, Fla. 33064.

HUESMANN, FIELDING L(OURY), b. Kirkwood, Mo, Oct. 11, 06; m. 34; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. M.A, Michigan, 31, Earhart Found. fel, 33-34. Real estate analyst & valuation engr, Fed. Housing Admin, 35-38, economist, 38-42; financial economist, Nat. Housing Agency, 43-47; housing mkt. analyst, Housing & Home Financing Agency, 47-49, financial economist, 49-51, prog. rev. officer, 51-55; analyst essential wartime functions, Off. Defense Mobilization, 55-57; DEPT. HOUSING & URBAN DEVELOP. REP, OFF. EMERGENCY PLANNING, NAT. RESOURCE ANAL. CENTER, 58- Lectr, American Univ, 46-50. Housing and population supply-requirement probability study. Publ: Grid analysis project and plots, Off. Emergency Planning, Nat. Resource Anal. Center, 66 & 67; Handbook of manual resource evaluation procedures; Cyclical valuation, Appraisal J. Address: Route 1, Box 104, Warrenton, Va. 22186.

HUESSY, DR. HANS ROSENSTOCK, Psychiat, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

HUEY, DR. BEN M(EYER), b. Atchison, Kans, Aug. 26, 14; m. 39; c. 2. FOREST ECONOMICS. B.A, Kansas, 38; B.S, Colorado State, 42; M.S, Montana State, 51; Ph.D.(forest econ), Mich. State, 58. Ranger, Rocky Mt. Nat. Park, U.S. Dept. Interior, 41; eng. aide, U.S. Forest Serv, 42, jr. forester, Lake States Forest Exp. Sta, 42-43, res. forester, forest & range exp. sta, 47-51; instr, Colorado State, 46-47; asst. prof, Mich. State, 47; Montana State, 55-56; res. forester, Tree Farmers, Inc, Mont, 56-57; ASSOC. PROF. FORESTRY, COLORADO STATE, 57- U.S.A, 43-46. Soc. Am. Foresters. Publ: Workbook for foresters in map drafting and reading; co-auth, Colorado lumber: good product, right size, Tech. Bull. Colo. State Univ. Address: Dept. of Forest Management & Utilization, Colorado State University, Ft. Collins, Colo. 80521.

HUEY, DR. (MARY) EVELYN BLAGG, b. Wills Point, Tex, Jan. 19, 22; m. 54; c. 1. POLITICAL SCIENCE. B.S, Texas Woman's Univ, 42, M.A, 43; fel. & M.A, Kentucky, 47; univ. fel. & Ph.D.(polit. sci), Duke, 54. Asst. dir. bur. pub. admin, Mississippi, 46-47; asst. prof. GOVT, NORTH TEXAS STATE, 47-63, assoc. prof, 63-66, PROF, 66-, dir. joint univ. center community serv, 66-67. Mem. summer conf. sci. & soc, Oak Ridge Inst. Nuclear Studies, 65; coordinator seminars in pub. admin. & urban affairs, North Texas State Univ, 66-; regional citizen mem, N.Cent. Tex. Coun. of Govts, 67-70. Polit. Sci. Asn; Soc. Pub. Admin. American political theory; public adminis-

tration; history. Publ: The legislative process; Texas constitutional revision: the legislative branch. Address: Dept. of Government, North Texas State University, Denton, Tex. 76203.

HUFBAUER, DR. GARY CLYDE, b. San Diego, Calif, Apr. 3, 39; m. 61; c. 1. ECONOMICS. A.B, Harvard, 60; Ph.D.(econ), Cambridge, 63. ASST. PROF. ECON, NEW MEXICO, 63- Ford Found. faculty fel, 66-67; Nat. Sci. Found. res. grant, 67-68; develop. adv, Pakistan group, Harvard Develop. Adv. Serv, Lahore, Pakistan, 67-69. Consult, U.S. Dept. Treas, 66-67. International trade theory and capital flows; economic development, especially industry. Publ; Synthetic materials and the theory of international trade, Duckworth, Eng. & Harvard, 66; co-auth, Overseas manufacturing investment and the balance of payments, U.S. Dept. Treas, 68. Address: Dept. of Economics, University of New Mexico, Albuquerque, N.Mex. 87106.

HUFF, DR. FREDERICK W(ARE), b. Atlanta, Ga, May 22, 37; m. 59; c. 3. PSYCHOLOGY. B.A, Emory, 59; M.A, Vanderbilt, 61; Ph.D.(psychol), Georgia, 64. Clin. psychologist, Fulton County Child Guid. Clin, Ga, 61-62; supv. clin. psychologist, Ga. Ment. Hosp, Milledgeville, 64-65; ASST. PROF. PSYCHOL, SOUTH FLORIDA, 65-, res. coun. award, 66-67. Summer field assessment officer, Peace Corps, 66 & 67. Consult. psychologist, Morning Star Sch, Tampa, Fla, 66-; St. Petersburg Adult Ment. Health Center, 67- Psychol. Asn. Factors involved in assessing personality; psychopathology and behavior change. Publ: Learning and psychopathology, Psychol. Bull, 64; Free operant avoidance responding as a function of serially presented variations of UCS intensity, Psychonomic Sci, 67; A study of the effects on agreement among clinicians of redundant and new information, confidence and time available for assessments, J. Gen. Psychol, 67. Address: Dept. of Psychology, University of South Florida, Tampa, Fla. 33620.

HUFF, DR. VAUGHN EDWARD, b. Chatham, Ont, Nov. 7, 35; U.S. citizen; m. 64; c. 1. PSYCHOLOGY. B.A, Arizona, 58, M.Ed, 63, Ph.D.(counseling), 66. Instr, high sch, Ariz, 61-63; ASST. PROF. PSYCHOL, BALL STATE, 66- Summer counseling psychologist, Univ. Arizona, 65. Dent.C, U.S.A, 58-60. Psychol. Asn; Personnel & Guid. Asn. Counseling process and outcome; counselor training. Publ: The millstone of teaching experience, Personnel & Guid. J, 65. Address: Counseling & Psychological Services Center, Ball State University, Muncie, Ind. 47306.

HUFFAKER, PROF. CARL L(EO), b. Clinton Co, Mo, Oct. 15, 85; m. 16; c. 4. PSYCHOLOGY, EDUCATION. B.S, Chicago, 15; A.M, Iowa, 22, Ph.D.(ed), 23. Prof. ed. psychol, Arizona, 23-27, acting dean col. ed, 24-27; prof. ed. & dir. bur. ed. res, OREGON, 27-51, EMER. PROF. ED, 51- Consult, pub. sch. systs, Ore, 27- Statistical analyses. Address: Box 3175, Eugene, Ore. 97403.

HUFFINGTON, PAUL, b. Normal, Ill, Oct. 9, 98; m. 20; c. 1. GEOGRAPHY. B.Ed, Ill. State Norm. Univ, 24; M.A, Clark, 29. Teacher geog, Mass. State Col. Bridgewater, 29-47, prof. & chmn. dept, 47-63; RETIRED. U.S.A, 17-18. Geophys. Union. Land utilization; glacial geology in southeastern Massachusetts. Publ: Evolution of shipbuilding in southeastern Massachusetts, Econ. Geog. Mag. Address: 1537 Picardy Circle, Clearwater, Fla. 33515.

HUFFMAN, ARTHUR V(INCENT), b. New Holland, Ill, Feb. 12, 12; m. SOCIOLOGY. A.B, McKendree Col, 35; fel, Illinois, 37-38, M.A, 40. Jr. psychologist, Lincoln State Sch. & Colony, 37-39; asst, dept. sociol, Illinois, 39-41; supv. officer div. supv. delinquents, State Dept. Pub. Welfare, Ill, 41-42; adv. Royal Afghan Ministry Ed, Afghanistan, 42-49; supv. sociologist, DIV. CRIMINOL, DEPT. PUB. SAFETY, ILL, 49-61, STATE CRIMINOLOGIST, 61- Asst. exec. dir, Ill. Sex Offenders Cmn, 52-54. Fel. Sociol. Asn; Asn. Criminol. Criminology; penology. Address: Dept. of Public Safety, 103 Armory Bldg, Springfield, Ill. 62706.

HUFFMAN, DR. DONALD C, b. Winston, Mo, Jan. 13, 34; m. 56; c. 2. AGRICULTURAL ECONOMICS. B.S, Missouri, 59, M.S, 60; Ph.D.(agr. econ), Ohio State, 63. Asst. instr. AGR. ECON, Ohio State, 62-63; ASST. PROF, LA. STATE, 63- U.S.N.R, 54-55. Agr. Econ. Asn; Econ. Asn. Farm management research, especially livestock production, analytical procedures and techniques for farm planning; farm machinery investment; sweet corn production; managerial ability. Publ: Programmed budgeting a tool for complete farm planning, 65, co-auth, Louisiana farm business analysis program, 65 & Costs and returns for selected systems of producing beef in central Louisiana, 67, La. State Univ. Agr. Exp. Sta. Address: 8224 Menlo Dr, Baton Rouge, La. 70808.

HUFFMAN, DR. HOWARD B, b. Sabina, Ohio, Sept. 27, 09; m. 48. STATISTICS, FINANCE. B.S.E, Wilmington Col.(Ohio), 35; M.B.A, Denver, 46; Ph.D.(statist), Ohio State, 61. Instr. acct. & statist, Denver, 47-48; PROF. STATIST, BOWLING GREEN STATE, 48- Statist. Asn; Finance Asn. Investment policies; insurance; economics. Address: Dept. of Statistics, Bowling Green State University, E. Wooster St, Bowling Green, Ohio 43402

HUFFMAN, PROF. HOWARD L(LOYD), Indust. Eng, see Suppl. V to 11th ed, Phys. & Biol. Vols.

HUFFMAN, DR. PHYLLIS WITTMAN, Psychol, see 10th ed, Soc. & Behav. Vols.

HUFFMAN, DR. ROY E(LWOOD), b. Highwood, Mont, Apr. 12, 16; m. 39; c. 3. ECONOMICS. B.S, Mont. State Col, 38; fel, Maryland, 38-39, M.S, 39; Ph.D. (agr. econ), Wisconsin, 52. Asst. agr. economist, U.S. Dept. Agr, 39-41, assoc. agr. economist, 41-42; instr. agr. econ, MONTANA STATE, 42-43, asst. prof, 46-50, assoc. prof, 50-53, prof. & head dept, 53-58, dean agr, 58-65, V.PRES. RES, 65- Consult, President's Mo. Basin Surv. Cmn, 52; task force on water resources & power, Hoover Cmn, 54; N.Mex. Study Use Waters of San Juan River, 57; Int. Coop. Admin, Paraguay, 59; Dept. Interior, 61. U.S.N, 43-46, Lt. Agr. Econ. Asn; Agr. Hist. Soc. Agricultural policy; land and water economics. Publ: Irrigation development and public water policy, Ronald, 53. Address: Montana State University, Bozeman, Mont. 59715.

HUFFORD, DR. LYLE EDWARD, b. Toledo, Ohio, June 6, 28; m. 57; c. 2. PSYCHOLOGY. B.A, San Diego State Col, 51, M.S, 58; Ph.D.(psychol), Arizona, 62. Res. scientist, N.Am. Aviation, Inc, 62-64, supvr, 64-65, chief biotech, 65-67; SR. ASSOC. HUMAN FACTORS, MAN FACTORS INC, 67-; ASST. PROF. PSYCHOL, SAN DIEGO STATE COL, 67- U.S.A.F.R, 51-56, Capt. Human Factors Soc.(ed, bull, 68-). Human factors engineering; experimental physiological psychology. Publ: Co-auth, Apollo event sequence panel operational efficiency test, NAS 9-150, SID 64-1517, 11/64, Electroluminescent displays, NAS 9-150, SID 65-943, 3/65 & Human factors visual simulation study of lunar roving vehicle simulation, NAS 8-20283, SID 67-288, 4/67. Address: Man Factors Inc, 4433 Convoy St, San Diego, Calif. 92111.

HUFSCHMIDT, PROF. MAYNARD M, b. Catawba, Wis, Sept. 28, 12; m. 41; c. 2. PUBLIC ADMINISTRATION. B.S, Illinois, 39; M.A, Harvard, 55, D.P.A, 64. Res. assoc. pub. admin. water resources, grad. sch. pub. admin, Harvard, 55-65; PROF. CITY & REGIONAL PLANNING & ENVIRON. SCI. & ENG, NORTH CAROLINA, CHAPEL HILL, 65- Consult, Resources for Future, Inc, 54; City of Phila, 55-56; Del. River Basin Adv. Cmt, 56-58; U.S. Bur. Budget, 61; Off. Sci. & Tech, 63; Coun. Econ. Advisers, 65-66; U.S. Dept. Housing & Urban Develop, 66-; Pan Am. Health Orgn, 67; U.S. Army Corps Engrs, 67-; Arthur D. Little, Inc, 67- Soc. Pub. Admin; Regional Sci. Asn. Regional and environmental planning; water resources planning; public investment theory and techniques; metropolitan planning process; natural resources policies, programs and administration. Publ: Co-auth, Design of water-resource systems, 62 & Simulation techniques for design of water-resource systems, 67, Harvard; auth, The Harvard program: a summing up, In: Water research, Hopkins, 66. Address: 912 Kings Mill Rd, Chapel Hill, N.C. 27514.

HUG, PROF. PACIFIC LAWRENCE, O.F.M, Philos, see 5th ed, Dir. of Am. Scholars, Vol. IV, Philos, Relig. & Law.

HUGANIR, DEAN GEORGE H, b. Philadelphia, Pa, July 30, 12; m. 43; c. 4. SOCIOLOGY. A.B, Temple, 38; M.A, Pennsylvania, 42, Ph.D, 58. Asst. registr, TEMPLE, 46-47, asst. prof. sociol. & anthrop. & chmn. dept, 47-58, v.provost, 58-60; PROF. SOCIOL. & DEAN GRAD. SCH, 60- Ed. consult, State Farm Ins. Cos. Fel. Sociol. Asn; Polit. & Soc. Sci. Asn. Industrial and occupational sociology; research methods. Address: Dept. of Sociology, Temple University, Philadelphia, Pa. 19122.

HUGHES, DR. BYRON O(RVILLE), Human Genetics, see 11th ed, Phys. & Biol. Vols.

HUGHES, PROF. CHARLES C(AMPBELL), b. Salmon, Idaho, Jan. 26, 29; m. 51. ANTHROPOLOGY, SOCIAL PSYCHIATRY. A.B, Harvard, 51; M.A, Cornell, 53, Soc. Sci. Res. Center fel, 54-55, Ph.D.(anthrop), 57. Asst. sociol, Cornell, 51-52, anthrop, 52-54, res. assoc, Stirling County study, 55-58, instr. anthrop, 57, acting asst. prof, 59-62, sr. res. assoc, prog. soc. psychiat, med. col, 58-61, assoc. dir, 60-61, asst. prof. anthrop, dept. psychiat, 60-62; assoc. prof. ANTHROP, MICH. STATE, 62-64, PROF, 64-, DIR. AFRICAN STUDIES CENTER, 62-, acting chmn. dept. anthrop, 64-65, distinguished faculty award, 67. Fel. soc. psychiat, Center Adv. Study Behav. Sci, 61-62; Nat. Insts. Health res. fel, 61-62. Consult, N.Y. Acad. Med-Wenner-Gren Found, 60. U.S.A.R, 51-57. Fel. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop; fel. Sociol. Asn; Ethnol. Soc; fel. African Studies Asn; fel. Arctic Inst. N.Am; Int. African Inst. Sociocultural change, especially among Eskimos; community structure; relationships between sociocultural factors and psychiatric disorder; social science and medicine. Publ: Eskimo village in the modern world; co-auth, Psychiatric disorder among the Yoruba, Cornell Univ, 63; auth, Under four flags: recent culture change among the Eskimos, Current Anthrop, 65. Address: African Studies Center, Michigan State University, East Lansing, Mich. 48823.

HUGHES, DR. CHARLES L(LOYD), b. Dallas, Tex, Dec. 18, 33; m. 54; c. 2. INDUSTRIAL PSYCHOLOGY. A.B, Southern Methodist, 55, M.A, 56; Ph.D, Houston, 59. Instr. psychol, Houston, 57-59; dir. personnel, Independent Explor. Co, Tex, 56-59; mgr. mgt. ed, Int. Bus. Mach. Corp, 59-61, proj. mgr. mgt. develop, 61-63, ed. consult, hq, 63-64; COMPONENTS GROUP PERSONNEL DIR, TEX. INSTRUMENTS, INC, 64- Adj. prof, Southern Methodist, 67- Psychol. Asn. Personnel evaluation and research; organization theory; human factors. Publ: Goal setting, Am. Mgt. Asn, 65. Address: Texas Instruments, Inc, P.O. Box 5012, MS11, Dallas, Tex. 75240.

HUGHES, PROF. C(LAUDE) A(LLEN), b. Kossuth, Miss, Sept. 22, 93; m. 21; c. 1. ECONOMICS. B.S.A, Miss. State Col, 16; cert, Paris, 19; M.S, Arkansas, 28; Wisconsin, 35. Asst. prof. agr. ed, Arkansas, 26-27; dir. agr, ARK. POLYTECH. COL, 27-50, chmn. div. agr. & home econ, 50-60, from prof. to EMER. PROF. AGRON, 50- Agr. consult, 60- Dist. governor, Rotary Int, 59-60; chmn. dist. cmt, Rotary Found. Fels, R.I, 60-; mem. bd. dirs, Hosp. Crippled Adults, Memphis, Tenn, 60-; mayor, City of Russellville, Ark, 62- U.S.A, 17-18. Soil Sci. Soc; Soc. Agron. Address: 1222 N. Arkansas Ave, Russellville, Ark. 72801.

HUGHES, DR. DELOS DYSON, b. Auburn, Ala, July 26, 34. POLITICAL SCIENCE. A.B, Oberlin Col, 56; M.A, North Carolina, 61, Ph.D.(polit. sci), 64. ASST. PROF. POLIT. SCI, WASHINGTON & LEE, 63- U.S.A.F.R, 56-59, Capt. Polit. Sci. Asn. Address: Dept. of Political Science, Washington & Lee University, Lexington, Va. 24450.

HUGHES, PROF. EUGENE H(ARLEY), b. Florence, Colo, Apr. 9, 08; m. 36. ECONOMICS, MARKETING. B.S, Denver, 32; M.A, West. State Col. Colo, 34; fel, N.Y. Univ, 36, Ed.D, 40. Instr, sch. commerce, N.Y. Univ, 36-40; asst. prof. bus. admin, Ball State Teachers Col, 40-42; chief ed. retraining, phys. med. rehab. serv, cent. off, Vet. Admin, 45-47; dean col. bus. admin, HOUSTON, 47-68, PROF. INT. BUS. & EMER. DEAN, 68- Lectr, inst. orgn. mgt, U.S. Chamber Commerce; Ford Found. fel. int. bus, N.Y. Univ, 64. Ed. consult, Vet. Admin, 47-; consult, Agency Int. Develop. in Latin Am, 61-62. Labor arbitrator, Fed. Mediation Panel, 50- Chmn. econ. anal. cmt, Houston Chamber Commerce. U.S.A.A.F, 42-45, Maj. Econ. Asn. International economics, trade and marketing. Publ: Co-auth, Introduction to

modern business, Prentice-Hall, 4th ed, 64, 5th ed, 68; Business letters, memorandums, and reports, Harper, 67; Impact of management sciences on collegiate education for business, Proc.Fall Conf. Data Processing Mgt. Asn, 65. Address: 3819 Linklea Dr, Houston, Tex. 77025.

HUGHES, PROF. EVERETT C(HERRINGTON), b. Beaver, Ohio, Nov. 30, 97; m. 27; c. 2. SOCIOLOGY. A.B, Ohio Wesleyan, 18; Ph.D.(sociol. & anthrop), Chicago, 28; hon. LL.D, Sir George Williams, 66 & Boston Col, 67; hon. L.H.D, Mich. State, 67. Asst. prof, McGill, 27-38; from asst. prof. to prof. SOCIOL, Chicago, 38-61, chmn. dept, 52-56; PROF, BRANDEIS, 61- Vis. lectr, Chicago, 31, 36; Soc. Sci. Res. Coun. fel, 31-32; exchange prof, Laval, 42-43; Frankfort, 48, 53, 58. Ed, Am. J. Sociol, 52-60. Mem. cmt. socioling, Soc. Sci. Res. Coun, 65- Fel. AAAS; fel. Sociol. Asn.(pres-elect, 61-62, pres, 62-63); fel. Anthrop. Asn; Soc. Appl. Anthrop.(pres, 50); fel. Am. Acad. Arts & Sci; Can. Sociol. & Anthrop. Asn. Race and ethnic relations; occupations, professions and related problems. Publ: French Canada in transition; co-auth, Boys in white: student culture in a medical school & Where peoples meet. Address: 27 Shepard St, Cambridge, Mass. 02138.

HUGHES, DR. GEORGE DAVID, b. Collingswood, N.J, Jan. 27, 30; m. 66. APPLIED ECONOMICS. B.S. Drexel Inst, 52; M.B.A, Pennsylvania, 60, Ph.D.(appl. econ), 63. Lectr. MKT, GRAD. SCH. BUS. & PUB. ADMIN, CORNELL, 61-63, asst. prof, 63-66, ASSOC. PROF, 66- Vis. assoc. prof, sch. bus. admin, California, Berkeley, 66-67. U.S.N, 52-55, Lt.(jg). Mkt. Asn; Inst. Mgt. Sci; Brit. Mkt. Res. Asn. Methodology, especially measurement, models and experimentation; behavior of consumers and industrial buyers; competitive interaction; market power and structure; advertising criticism, defenses and public policy; models of bargaining. Publ: A new tool for sales managers, J. Mkt. Res, 5/64; Role of product differentiation in the rise of the discount house, In: New research in marketing, 66; Research parks from the community viewpoint, Cornell Studies in Policy, 9/67. Address: Graduate School of Business and Public Administration, Cornell University, Malott Hall, Ithaca, N.Y. 14850.

HUGHES, DR. HAROLD, b. Shaker Heights, Ohio, Mar. 12, 02; m. 31. ECONOMICS, BUSINESS ADMINISTRATION. Ph.B, Chicago, 24, J.D, 29. Head dept. econ, Univ. Tulsa, 41-45; ECON. CONSULT, 45- Economist, U.S. Govt, 45-47. Mem, Economists Nat. Cmt. Monetary Policy. Econ. Asn; Mgt. Asn. Taxation; public finance; public utilities. Publ: Ed, Corporation tax service, 30-36 & Public utilities & carriers service, 34-36, Corp. Trust Co; auth, articles in Encyclop. Americana, 55- Address: 2439 Overlook Rd, Cleveland Heights, Ohio 44106.

HUGHES, DR. HARRY M(EACHUM), Math. Statist, see 11th ed, Phys. & Biol. Vols.

HUGHES, DR. HELEN MacGILL, b. Vancouver, B.C, Aug. 24, 03; nat; m. 27; c. 2. SOCIOLOGY. B.A, British Columbia, 25, A.M, Chicago, 27, Ph.D. (anthrop, sociol), 37. Sociol. fel, Encyclop. Britannica, 43-44; ed. asst, Am. J. Sociol, Chicago, 44-45, asst. ed, 45-54, managing ed, 54-62; res. consult, joint center urban studies, Harvard-Mass. Inst. Tech, 62-63; FACULTY RES. ASSOC. SOCIOL, BRANDEIS, 63-; DIR. PAPERBACKS ON SOCIOL, SOCIOL RESOURCES FOR SEC. SCHS, AM. SOCIOL. ASN, 66- Fel. Sociol. Asn; Soc. Appl. Anthrop; Soc. Study Social Probs; Can. Polit. Sci. Asn; fel. Royal Soc. Arts. Popular culture and the news; culture of cities; chronic disease; nursing profession. Publ: News and the human interest story; co-auth, Where peoples meet: racial and ethnic frontiers & Twenty thousand nurses tell their story. Address: 27 Shepard St, Cambridge, Mass. 02138.

HUGHES, DR. HERBERT HOWARD, b. Roy, N.Mex, Sept. 15, 30; m. 57; c. 1. PSYCHOLOGY. B.S, New Mexico, 56; M.S, Fla. State, 58, Nat. Inst. Ment. Health fel. & Ph.D.(psychol), 60. Intern psychol. & ed. res, Fla. State, 60; asst. prof. psychol, Colo. State Col, 60-66, co-dir, bur. res. serv, 61-65, dir, 65-66, Ph.D, prog. ed. res, 65-66; N.Mex. ED. Res. Cmt, 66-67, state budget dir, 67-68; ASSOC. PROF. & EXEC. SECY, N.MEX. RES. & STUDY COUN, UNIV. NEW MEXICO, 68- Consult, various regional & nat. projs, 64-67. U.S.A.F, 51-55, 1st Lt. Psychol. Asn; Ed. Res. Asn; Personnel & Guid. Asn. Organizational analysis; community power structure; government organization; state planning; political psychology; public opinion theory and measurement. Publ: State responsibility for public education in New Mexico: a critical analysis and recommendations, State of N.Mex, 67; co-auth, Characteristics of the gifted: a case for a sequel to Terman's study, Except. Children, 62; Complex alternatives in multiple choiced items, Ed. & Psychol. Measurement, 65. Address: New Mexico Research & Study Council, University of New Mexico, Albuquerque, N.Mex. 87106.

HUGHES, PROF. JACK T(HOMAS), b. McKinney, Tex, Oct. 16, 21; m. 45; c. 2. ANTHROPOLOGY, GEOLOGY. B.A, Texas, 41, M.A, 42; Farmer fel. from Texas, Nat. Univ. Mexico, 42; Columbia, 47, univ. fel, 49-51. Archaeologist, Smithsonian Inst, 47-49; computer, Marine Seismic Survs, 51-52; from instr. to assoc. prof. geol. & head dept, WEST TEXAS STATE, 52-66, ASSOC. PROF. ANTHROP, 66-; CURATOR PANHANDLE-PLAINS MUS, 66-, paleont. 52-65. Summer archaeologist, Texas, 50. Fel. Anthrop. Asn; Soc. Archaeol; Soc. Vert. Paleont; Asn. Geol. Teachers. American archaeology, especially early man and great plains. Publ: Archaeological reconnaissance in Tamaulipas, Mexico and Investigations in Western South Dakota and Northeastern Wyoming, Am. Antiquity; Little Sunday: an archaic site in the Texas Panhandle, Tex. Archaeol. Soc. Bull. Address: Dept. of Anthropology, West Texas State University, Canyon, Tex. 79015.

HUGHES, DR. JAY M, b. Pueblo, Colo, Dec. 1, 30; m. 53; c. 2. ECONOMICS, FORESTRY. B.A, Colorado, 52; M.F, Colorado State, 58; Ph.D.(forestry econ), Mich. State, 64. Res. forester. FORESTRY ECON, U.S. Forest Serv, 59-66; ASSOC. PROF, MINNESOTA, ST. PAUL, 66- U.S.A, 52-54, Sgt. Agr. Econ. Asn. Industrial feasibility analysis; forest land use, forest product alternative evaluation; forest recreation economics. Publ: Pulp and paper making opportunities in west central Colorado, U.S. Forest Serv, 11/62; co-auth, The nation's income from forest products, 3/63, & auth, Wilderness and economics, 4/68, J. Forestry. Address: School of Forestry, University of Minnesota, St. Paul, Minn. 55101.

HUGHES, PROF. JOHN E(DWARD), b. Philadelphia, Pa, Mar. 1, 22; m; c. 3. SOCIOLOGY. A.B, Temple, 48; M.A, Pennsylvania, 49, Ph.D, 60. Instr, Pennsylvania, 49-53; Notre Dame 53-55, asst. prof, 53-61; PROF. SOCIOL. & CHMN. DEPT, VILLANOVA, 61- U.S.A, 43-45. Sociol. Asn; Pop. Asn; Indust. Rels. Res. Asn. Industrial sociology; social organization and personality; scientific methodology; sociology of occupations and professions. Address: Dept. of Sociology, Villanova University, Villanova, Pa. 19085.

HUGHES, DR. KENNETH RUSSELL, Physiol, Psychol, see 11th ed, Phys. & Biol. Vols.

HUGHES, PROF. LAWSON H(ILL), b. Cookeville, Tenn, Mar. 13, 21; m. 49; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Tennessee, 48; A.M, Indiana, 54, Ph.D.(psychol), 59. Asst. psychol, Tennessee, 47-48; Indiana, 48-49, 52-53, 55-56, teaching assoc, 53-55; psychol. test adminstr, Johnson O'Connor Res. Found, 50-52; asst. prof. psychol, Coe Col, 56-61; eng. psychologist, Martin Co, 61-62; asst. prof. ED, INDIANA, 62-67, ASSOC. PROF, 67-, RES. ASSOC, AUDIO-VISUAL CENTER, 62- U.S.A, 42-46. Psychol. Asn. Learning in animals; learning and motivation. Address: Audio-Visual Center, Indiana University, Bloomington, Ind. 47405.

HUGHES, DR. RICHARD D, b. Monmouth, Ill, Sept. 5, 36; m. 66; c. 2. POLITICAL SCIENCE. B.S, Mass. Inst. Tech, 58; Harvard, summers, 58, 59; M.A, Colgate, 60; Ph.D.(govt), Claremont Grad. Sch, 64. Lectr. polit. sci, California, Santa Barbara, 63-64; ASST. PROF. GOVT, SACRAMENTO STATE COL, 64- Pub. admin. fel, Coun. Grad. Ed. for Pub. Admin, 67-68; for. affairs officer, U.S. Atomic Energy Cmn, 67-68. Consult, continuing ed. proj, Sacramento State Col, 66-67. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Soviet foreign policy in the postwar world; international relations theory and the philosophy of science. Address: Dept. of Government, Sacramento State College, 6000 J St, Sacramento, Calif. 95819.

HUGHES, DR. ROBERT M(OORE), b. Columbus, Ohio, Jan. 20, 13; m. 38. CLINICAL PSYCHOLOGY. B.S, Ohio State, 34, M.A, 35; Ph.D.(psychol), North Carolina, 48. Psychol. intern, Wayne Co. Training Sch, Mich, 35-36; jr. psychologist, Ypsilanti State Hosp, Mich, 36-37; psychologist, Ind. Reformatory, 37-39; chief psychologist, Muscatatuck State Sch, Ind, 39-41; clin. & hosp, Vet. Admin, 46-47, 48-49; prof. ment. health, Georgia, 49-50; private consult, 50- Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. U.S.A, 41-46, Maj. AAAS; Psychol. Asn; Asn. Ment. Deficiency; Soc. Proj. Tech. Projective techniques; methods of psychotherapy. Publ: Rorschach signs for diagnosis organic pathology, J. Proj. Tech; A factor analysis for Rorschach signs, J. Gen. Psychol. Address: Suite 501, 3001 N. Fulton Dr, N.E, Atlanta, Ga. 30305.

HUGHES, PROF. RUFUS BRITTON, b. Muskogee, Okla, Nov. 22, 22; m. 45; c. 4. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Okla. State, 48, M.S, 49; fel, Chicago, 50-51, Ph.D, 59. Res. asst, Okla. State, 48-49; from asst. economist to assoc. economist, Tennessee, 49-56; gen. economist, Arkansas, 56-57; vis. prof, Utkal, India, 57-58; Madras, 58-59; from assoc. prof. to prof. econ. & agr. econ, Colorado State, 59-64, 66-68; econ. adv. econ. planning bd. Govt. of Korea, Robert T. Nathan Assocs, Inc, 64-66; PROF. AGR. ECON, HAWAII, 68- Part-time consult, U.S. Agency Int. Develop, 63-64. Agr. Econ. Asn; Econ. Asn. Human fertility and migration; agricultural adjustments. Publ: Human fertility differentials: influence of industrial-urban development on birth rates, Pop. Rev; Demonstration effects of production, J. Farm Econ; Interregional income differences: self-perpetuation, South. Econ. J. Address: Dept. of Agricultural Economics, University of Hawaii, Honolulu, Hawaii 96822.

HUGHES, DR. THOMAS P(ARKE), Hist. of Tech, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HUGHES, DR. W(ILLIAM), b. Leeds, Eng, June 7, 27; m. 55; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. B.Sc, London Sch. Econ, 55; M.B.A, Indiana, 57, D.B.A, 61. Admin. asst. hwy. transportation, Brit. Transport Cmn, 42-52; asst. bus. admin, Indiana, 55-57; assoc. prof, British Columbia, 57-66; ECONOMIST, INT. BANK RECONSTRUCT. & DEVELOP, 66- Summer lectr, Univ. Malaya, 61. Mem, Inst. Transport, Brit. Royal Navy, 44-47. Am. Econ. Asn; Royal Econ. Soc. Public policy and economics of transportation; distribution patterns and competition in Canadian foreign trade; future of natural rubber industry in South East Asia. Publ: Submission of British Columbia to royal commission on transportation; The common market and the commonwealth, with special reference to Canada. Address: International Bank for Reconstruction & Development, 1818 H St. N.W, Washington, D.C. 20433.

HUGHES, PROF. WILLIAM R(OYSTON), b. Washington, D.C, Jan. 25, 32; m. 55; c. 2. ECONOMICS. B.S, Maryland, 53; John Harvard fel, Harvard, 56-57, A.M, 57, univ. fel, 57-59, Ph.D, 60. Instr. ECON, Harvard, 59-60; asst. prof, Wesleyan, 60-66; ASSOC. PROF, BOSTON COL, 66- Economist, Fed. Power Cmn, 62-64; Resources for the Future, Inc. grant, 64-68. Consult, antitrust div, U.S. Dept. Justice, 60; Fed. Power Cmn, 64-; Debevoise, Liberman & Corben, Attorneys, 65; New Eng. Econ. Res. Found, 66; Charles River Asn, Cambridge, 66-; Fed. Reserve Bank Boston, 68. U.S.A.F, 53-55, 1st Lt. Am. Econ. Asn; Economet. Soc; Royal Econ. Asn. Industrial organization; technical efficiency in electric utility industry; empirical measurements; economics of regulated industry. Publ: Short run efficiency and organization of the electric power industry, Quart. J. Econ; Regulation and technological destiny: the national power survey, Am. Econ. Rev, 5/66. Address: Dept. of Economics, Boston College, Chestnut Hill, Mass. 02167.

HUGO, PROF. FRANCIS G(OODALE), b. Watertown, N.Y, Jan. 8, 12; m. 35; c. 2. PSYCHOLOGY. A.B, Bowdoin Col, 49; A.M, New Hampshire, 51; Grant Found. fel, Cornell, 53-54, 55-56, Ph.D.(child develop, family rel), 56. Instr. PSYCHOL, New Hampshire, 50-52; Bowdoin Col, 52-53; asst. prof, HOOD COL, 56-59, assoc. prof, 59-64, PROF, 64-, CHMN. DEPT, 63- Psychol. Asn. General psychology; developmental; abnormal. Address: 114 N. Bentz St, Frederick, Md. 21701.

HUHTA, DR. JAMES KENNETH, Am. Colonial & Revolutionary Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HUITT, PROF. RALPH K(INSLOE), b. Corsicana, Tex, Jan. 8, 13; m. 38; c. 2. POLITICAL SCIENCE. A.B, Southwestern, 34; fel, Texas, 48-49, Ph.D, 50. Asst. prof. soc. sci, Lamar Col, 41-46; instr. govt, Texas, 46-49; asst. prof. POLIT. SCI, WISCONSIN, 49-54, assoc. prof, 54-59, PROF, 59-; ASST. SECY. LEGIS, DEPT. HEALTH, ED. & WELFARE, D.C, 65- Faculty fel, Fund Adv. Ed, 53-54. U.S.N, 42-45. Polit. Sci. Asn. Politics of pressure groups; legislative behavior. Address: Dept. of Political Science, University of Wisconsin, Madison, Wis. 53706.

HUKE, DR. ROBERT E, b. Newton, Mass, Mar. 3, 25; m. 50; c. 3. GEOGRAPHY. B.A. Dartmouth Col, 48; M.A, Syracuse, 50, Ph.D.(geog), 53. Vis. lectr, Rangoon Univ, Burma, 51-52; vis. lectr. & Fulbright prof, Philippines, 55-56; PROF. GEOG. & CHMN. DEPT, DARTMOUTH COL, 56- Fulbright prof, Silliman Univ, P.I, 62-63; summer vis. lectr, Mich. State, 59. Secy, Geog. Cmt, Pac. Sci. Cong, 57-61. U.S.M.C, 43-46. Asn. Am. Geog; Geog. Soc; Asn. Asian Studies; Burma Res. Soc. Agricultural problems; economic development; climatology of southeast Asia. Publ: Shadows on the land; an economic geography of the Philippines, Bookmark, Manila, 64; Rainfall in Burma, Dartmouth Col, 65; Philippine Islands, Thailand & Burma, Focus. Address: Dept. of Geography, Dartmouth College, Hanover, N.H. 03755.

HUKILL, RALPH L(EROY), Sociol, Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

HULBERT, DR. SLADE FRANK, b. Los Angeles, Calif, May 28, 23; m. 46; c. 1. PSYCHOLOGY. B.A, California, 48, M.A, 51, Ph.D, 57. Asst. eng, CALIFORNIA, LOS ANGELES, 52-53, ASSOC. PSYCHOLOGIST, INST. TRANSPORTATION & TRAFFIC ENG, 53- Res. adv, Nat. Joint Cmt. Uniform Traffic Control Devices, 64-; Consult, U.S. Dept. Transportation, 66-; Fed. Hwy. Admin, 66-; Nat. Hwy. Safety Bur, 66- Cmt. chmn, hwy. res. bd, Nat. Acad. Sci. 60- U.S.A.A.F, 42-45, Sgt. AAAS; Psychol. Asn; Human Factors Soc; Inst. Traffic Eng. Human factors research in transportation systems; engineering education; psychological behavior theories. Publ: Driving simulator devices and applications, Soc. Automotive Engrs, 1/64; Nighttime effectiveness of two types of reflectorized stop signs, Traffic Eng, 11 64; Wrong-way driving: off-ramp studies, Hwy. Res. Rec. 122, 66. Address: Dept. of Engineering, University of California, Los Angeles, Calif. 90024.

HULETT, PROF. J(AMES) E(DWARD), JR, b. Hattiesburg, Miss, June 30, 09; m. 37; c. 1. SOCIOLOGY. A.B, Miss. Col, 29; A.M, Wisconsin, 34, Ph.D, 39. Instr, Utah State Agr. Col, 36; assoc. soc. psychologist, U.S. Dept. Agr, 39-40; asst. prof. sociol, ILLINOIS, URBANA, 40-49, assoc. prof, 49-57, chmn. dept. sociol. & anthrop, 53-59, PROF. SOCIOL, 57-, ACTING HEAD DEPT, 68- Vis. prof, Alabama, 39. Clin. psychologist, Off. Strategic Serv, 44-45. Fel. AAAS; fel. Sociol. Asn; fel. Psychol. Asn. Analysis of socialization, social roles and dynamics of interpersonal communication from the perspective of symbolic interactionism; investigation of heuristic value of a symbolic interactionist communication model for theory in sociolinguistics. Publ: Co-ed, Problems in social psychology, 52; auth, Communication and social order: the search for a theory, winter 64 & A symbolic interactionist model of human communication. parts I and II, spring & summer 66, AV Commun. Rev. Address: Dept. of Sociology, University of Illinois, Urbana, Ill. 61801.

HULICKA, PROF. IRENE M(ACKINTOSH), b. Gull Lake, Sask, Jan. 27, 27; nat; m. 57; c. 1. CLINICAL & EXPERIMENTAL PSYCHOLOGY. B.A, Saskatchewan, 47, M.A, 49; B.Ed, Alberta, 52; Ph.D.(psychol), Nebraska, 54. Teacher, pub. sch, Can, 43-52; asst, Nebraska, 52-54, instr, 53-54; asst. prof. psychol, Ft. Hays Kans. State Col, 54-55; Oklahoma, 55-59; prof. lectr, Buffalo, 59-60; clin. psychologist, med. serv, Vet. Admin. Hosp, Buffalo, N.Y, 60-63, res. psychologist, gen. med. res, 63-65; PROF. PSYCHOL. & CHMN. DEPT, D'Youville Col, 65-67; STATE UNIV. N.Y. COL. BUFFALO, 67- Res. grants, Nat. Sci. Found, 58, 64-65, Nat. Inst. Ment. Health, 62-63 & Nat. Inst. Child Growth & Human Develop, 63-66. Consult. chmn, dept. psychol, D'Youville Col, 67- Mem, Vet. Admin. Nat. Study Group Aging, 63-66. Psychol. Asn; Geront. Soc. Learning; extinction; perception; learning, memory, perceptual and adjustment problems of the elderly. Publ: Co-auth, Soviet institutions, the individual and society, Christopher, 67; auth, Age changes and age differences in memory functioning, Gerontologist, 67; Age differences in the use of mediators in paired-associate learning, J. Geront, 67. Address: 98 University Ave, Buffalo, N.Y. 14214.

HULICKA, PROF. KAREL, b. Prague, Czech, Jan. 3, 13; nat; m. 57; c. 1. POLITICAL SCIENCE, ECONOMICS. Ing.(econ), Prague, 46; Ph.D.(polit. sci), California, 52. Prof. commerce, tech. col. Prague, 39-47; assoc. prof. & chmn. dept, Army Lang. Sch, Calif, 48-49; acting instr. polit. sci, California, 52-53; vis. lectr, Minnesota, 55-56; asst. prof. govt, Oklahoma, 56-59; assoc. prof, HIST, STATE UNIV. N.Y. BUFFALO, 59-65, PROF, 65- Czech. Army, 35-38, Lt. Polit. Sci. Asn. Comparative government; area studies of Soviet Russian and Eastern Europe; political theory; American government. Publ: Soviet institutions, the individual & society, Christopher, 67; contrib. ed, Handbook of historical concepts, Philos. Library, 67; auth, article, Economic planning in the U.S.S.R, S.African Quart. J. Econ, 63. Address: Dept. of History, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HULIN, DR. CHARLES LEE, b. Flint, Mich, Apr. 4, 36; m. 58; c. 2. PSYCHOLOGY. B.A, Northwestern, 58; M.A, Cornell, 60, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, ILLINOIS, URBANA, 62-67, ASSOC. PROF, 67- Psychonomic Soc; Soc. Psychol. Study Social Issues. Industrial and work behavior; work motivation; job satisfaction; criteria of job performance. Publ: The effects of community characteristics on measures of job satisfaction, 66 & co-auth, Alienation, environmental characteristics and worker responses, 67, J. Appl. Psychol; co-auth, Job enlargement, individual differences and worker responses, Psychol. Bull, 68. Address: 501 Eliot Drive, Urbana, Ill. 61801.

HULL, PROF. CHESTER DEAN, b. Delta, Colo, Dec. 27, 27; m. 51; c. 2. PSYCHOLOGY. B.A, California, Los Angeles, 52, Ph.D, 56. Asst. prof. psychol, Long Beach State Col, 56-61, assoc. prof, 61-65; ASSOC. RES. ANATOMIST, SCH. MED, CALIFORNIA, LOS ANGELES, 65- U.S.A, 46-49. Neurophysiological bases of behavior; perception; psychological measurement. Address: 14940 McKendree Ave, Pacific Palisades, Calif. 90272.

HULL, DR. DAYTON W(OOD), b. Summit, N.J, Jan. 19, 14; m. 37; c. 4. PUBLIC ADMINISTRATION. A.B, Harvard, 35, fel, 35-38, Ph.D, 38. Personnel officer, Off. Defense Transportation, 42-43; Petrol. Admin, 43-44; community action specialist, Nat. Housing Agency, 46-47; personnel officer, Am. Embassy, Greece, 47-49; chief allowances div, U.S. DEPT. STATE, 50-65, DIR. INFO. & REPORTS DIV, 65- U.S.N.R, 44-46, Lt. Cost of living and environmental conditions in foreign areas. Publ: How Washington prices affect you, For. Serv. J. Address: 10711 Weymouth St, Garrett Park, Md. 20766.

HULL, DR. ELAINE M(ANGELSDORF), b. Houston, Tex, Aug. 15, 40; m. 62. PHYSIOLOGICAL PSYCHOLOGY. B.A, Austin Col, 63; univ. fel, Indiana, 65-66, U.S. Pub. Health Serv. fel, 66-67, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, STATE UNIV. N.Y. BUFFALO, 67- Physiological encoding of sensory information, especially color vision. Publ: Corticofugal influence in the Macaque lateral geniculate nucleus, In: Vision research, in press. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

HULL, PROF. EUGENE L, b. Hungary, Oct. 8, 28; U.S. citizen; m. 53; c. 2. ECONOMICS, FINANCE. B.S, N.Y. Univ, 57; M.A, Seton Hall, 59; summers, Econ-in-Action fel, Case, 62, Nat. Sci. Found. fels, South Carolina & Lehigh, 67. Instr. acct, St. Louis, 59-60; lectr. finance, Iona Col, 60-61; asst. prof. econ, Trenton State Col, 61-66; chmn. dept. bus, Plymouth State Col, 66-67; ASSOC. PROF. BUS. ADMIN, LAKE SUPERIOR STATE COL, MICH. TECH, 67- Grad. faculty, New Sch. Soc. Res, 60-61; col. bus. exchange prof, summer, 64. Econ. Asn; Acct. Asn; Finance Asn. Publ: Money and banking, Monarch, 65; Accounting I, Putnam, 66. Address: Lake Superior State College of Michigan Technological University, Sault Ste. Marie, Mich. 49783.

HULL, PROF. STANLEY P(ARKER), b. Worcester, Mass, Feb. 28, 21. SOCIOLOGY. A.B, Clark, 46, A.M, 47. Instr. sociol, Russell Sage Col, 48-49; Northeastern, 49-52; asst. prof. W.Liberty State Col, 55-56, prof. hist. & sociol. & chmn. dept, Leicester Jr. Col, 56-67; ASSOC. PROF. SOCIOL, NORWALK COMMUNITY COL, 67- U.S.A.A.F, 42-44. Sociol. Asn; Acad. Polit. & Soc. Sci. Criminology courses for police; sociology of education; anthropology and relationships between sociology and history. Address: 3 Park Ave. Place, Worcester, Mass. 01603.

HULL, PROF. WILLIAM H(ENRY) N(ELLES), b. Grimsby, Ont, Oct. 21, 29; m. 60; c. 4. COMPARATIVE GOVERNMENT, PUBLIC ADMINISTRATION. B.A, Western Ontario, 51, M.A, 55; Ph.D.(polit. sci), Duke, 59. Lectr. polit. sci, Western Ontario, 58-59; asst. prof, Manitoba, 59-64; vis. prof. polit. sci. & exec. secy. commonwealth studies center, Duke, 64-65; assoc. prof. POLIT, BROCK, 65-67, PROF, 67-, CHMN. DEPT, 65- Mem. nat. exec. cmt, World Univ. Serv. Can, 61-66; UN Asn. Can, 64-, ed. sub-cmn, Can. Nat. Cmn. UNESCO, 66- Am. Polit. Sci. Asn; Am. Soc. Int. Law; Can. Polit. Sci. Asn; Inst. Pub. Admin, Can; Royal Commonwealth Soc. Commonwealth of nations; nationalized industries and ministerial responsibility. Publ: Control of broadcasting; the Canadian and Australian experiences, Can. J. Econ. & Polit. Sci. Address: Dept. of Politics, Brock University, St. Catharines, Ont, Can.

HULSE, PROF. FREDERICK S(EYMOUR), b. New York, N.Y, Feb. 11, 06; m. 34; c. 2. ANTHROPOLOGY. A.B, Harvard, 27, M.A, 28, Ph.D.(anthrop), 34. Asst. anthrop, Hawaii, 31-32, res. assoc, 35-36; Nat. Res. Coun. fel, California, 34; acting instr, Washington (Seattle), 36-37; phys. anthropologist, Irene Mound Proj, Savannah, Ga, 38-40; state supvr, univ. res. assistance prog, Works Prog. Admin, 41-42; from planner to instr, Off. Strategic Serv, 42-45; res. analyst, U.S. Strategic Bombing Surv, Japan & Wash, 45-46; asst. prof. ANTHROP, Colgate, 46-48; Washington (Seattle), 48-49, assoc. prof, 49-58; PROF, ARIZONA, 58- Fel. Anthrop. Asn; Asn. Asian Studies; Asn. Phys. Anthrop.(ed. jour, 63, pres, 67); Soc. Human Genetics; Brit. Soc. Study Human Biol. Effects of culture upon human genetics. Publ: The human species, Random, 63. Address: Dept. of Anthropology, University of Arizona, Tucson, Ariz. 85721.

HULSE, DR. STEWART H(ARDING), JR, b. Elizabeth, N.J, Aug. 25, 31; m. 54; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Williams Col, 53; Sc.M, Brown, 55, Keen fel, 56-57, Ph.D.(psychol), 57. Instr. PSYCHOL, HOPKINS, 57-58, asst. prof, 58-63, ASSOC. PROF, 63- Fel. AAAS; Psychol. Asn; Psychonomic Soc. Animal behavior; reinforcement theory; learning theory. Publ: Co-auth, Psychology of learning McGraw 3rd Ed, 67. Address: Dept. of Psychology, Johns Hopkins University, Baltimore, Md. 21218.

HULTMAN, PROF. CHARLES W(ILLIAM), b. Oelwein, Iowa, Apr. 6, 30; m. 57; c. 2. INTERNATIONAL ECONOMICS. B.A, Upper Iowa, 52; M.A, Drake, 57; Ph.D.(econ), Iowa, 60. Instr. ECON, Iowa, 57-60; asst. prof, Kentucky, 60-64; vis. assoc. prof, California, Riverside, 65; assoc. prof, KENTUCKY, 65-67, PROF, 67- Fulbright lectr, Univ. Col, Cork, 67-68. U.S.A, 53-55. Econ. Asn. United States aid program; balance of payments problems; underdeveloped countries. Publ: Co-auth, Modern international economics; co-auth, International finance, 63 & Problems of economic development, 67, Heath. Address: Dept. of Economics, University of Kentucky, Lexington, Ky. 40506.

HUMBER, DR. W(ILBUR) J(AMES), b. Winnipeg, Man, June 21, 11; nat; m. 46; c. 2. PSYCHOLOGY. B.A, Macalester Col, 34; M.A, Chicago, 37; Ph.D. (psychol), Minnesota, 42. Dean students, Kalamazoo Col, 42-43; asst. prof, Lawrence Col, 43-44; consult. psychologist, Stevenson, Jordan & Harrison, 44-45; Rohrer, Hibler & Replogle, 45-52; PARTNER, HUMBER, MUNDIE & McCLARY, 52- Lectr, Wisconsin, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 51. Fel. AAAS; fel. Psychol. Asn. Industrial organization; executive development; social psychology. Publ: Co-auth, Development of human behavior; auth, Introduction to social psychology, Macmillan, 66. Address: 9614 N. Lake Dr, Milwaukee, Wis. 53217.

HUMBERT, PROF. R(EUBEN) LEE, b. Harrisonburg, Va, Aug. 22, 00. ECONOMICS. A.B, Bridgewater Col, 22; A.M, Michigan, 26; Columbia, 23.

Prin, high sch, Timberville, Va, 22-24; asst, Bur. Govt. Res, Detroit, Mich, 25-26; secy, Chamber of Commerce, Harrisonburg, Va, 26-28; exec. secy, VA. POLYTECH, 28-44, prof. econ. & pub. admin, 42-61, PROF. BUS. ADMIN. & HEAD DEPT, 61- Dir. sch. div, hq, Third Serv. Command, U.S.A, 44-46. Economic and industrial development of Virginia. Address: Dept. of Business Administration, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

HUMES, PROF. DOLLENA JOY, b. Buffalo, N.Y, Apr. 22, 21. POLITICAL SCIENCE. A.B, California, 50; M.A, Nebraska, 51; Maxwell scholar. & fel, Syracuse, 51-52, 53-54, Ph.D, 56. Asst. instr. polit. sci, Syracuse, 52-53; instr. govt, Conn. Col, 54-57; asst. prof. hist. & govt, WELLS COL, 57-62, assoc. prof, 62-66, PROF. GOVT. 66- U.S.N.R, 43-46. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Liberalism in American political history; American history; congressional power structure. Publ: Oswald Garrison Villard: liberal of the 1920's. Address: Dept. of Government, Wells College, Aurora, N.Y. 13026.

HUMES, DR. JOHN F(INTON), Psychol, see 10th ed, Soc. & Behav. Vols.

HUMES, PROF. SAMUEL, b. Williamsport, Pa, Aug. 2, 30; m. 59; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Williams Col, 52; M.G.A, Pennsylvania, 54; M.A. & Ph.D.(law, local govt), Leiden, 59. Res. assoc, Int. Union Local Authorities, The Hague, Netherlands, 56-59; exec. dir, Metrop. Wash. Coun. Govt, 60-65; county admin. officer, Baltimore County, 65-67; PROF. & SR. CONSULT. LOCAL GOVT, INST. ADMIN, IFE, NIGERIA, 67- Mem. vis. faculty, grad. sch. pub. & int. affairs, Pittsburgh, 61-63; assoc. prof. sch. bus, govt. & int. affairs, George Washington, 63-67; Seasongood good govt. vis. lectr, Allegheny Col. & Kent State, 64-66; mem. vis. faculty, Wharton Grad. Sch. Bus. & Commerce & Fels Inst. Local & State Govt, Pennsylvania, 66-67; prof, Loyola Col.(Md), 66-67; assoc, Resources for the Future, D.C, 67; sr. assoc, Knight & Gladieux, New York, 67. Sr. res. consult, Inst. Pub. Admin, New York, 67. Sig.C, U.S.A, 55-56. Polit. Sci. Asn; Soc. Pub. Admin; Int. City Mgr. Asn; Nat. Munic. League. Local government in Africa. Publ: Co-auth, The structure of local governments throughout the world, The Hague, 61, The dilemma of the metropolis, Inst. Pub. Admin, 68 & Mayor, Encyclop. Brittanica, 61- Address: Institute of Administration, University of Ife, Ibadan, Nigeria.

HUMPHREY, DR. GEORGE, Psychol, see 10th ed, Soc. & Behav. Vols.

HUMPHREY, PROF. JOHN PETERS, b. Hampton, N.B, Apr. 30, 05; m. 29. POLITICAL SCIENCE. B.Com, McGill, 25, B.A, 27, B.C.L, 29, Ph.D.(polit. sci), 45; Macdonald traveling scholar, Paris, 29-30, Carnegie Found. Int. Peace fel, 36-37; hon. D.Univ, Algiers, 44; D.S.Sc, Ottawa (Ont), 66; LL.D, Carleton, 68. Attorney at law, Wainwright, Elder & McDougall, Que, 30-36; lectr. Roman law, McGill, 36, secy. faculty law, 37-46, Gale prof. Roman law & dean law faculty, 46; dir. div. human rights, UN Secretariat, 46-66; PROF. LAW & POLIT. SCI, McGILL, 66- Exec. secy. conf. freedom of info, UN, Geneva, 48, mem. conf. refugees & stateless persons, 51, conf. status of stateless persons, 54, slavery conf, 56, prin. secy. fact-finding mission to S.Viet-Nam, 63, rapporteur, seminar human rights, Jamaica, 67, mem. subcmn. prev. of discrimination & protection of minorities. V.pres. Montreal Br, Can. Inst. Int. Affairs, 43-44, chmn. New York Br, 61-66; pres. Can. Cmn, Int. Year Human Rights. Int. Law Asn. Publ: The inter-American system: a Canadian view, 42. Address: 1455 Sherbrooke St. W, Montreal, Que, Can.

HUMPHREYS, ALEXANDER J(EREMIAH), S.J, b. San Francisco, Calif, July 15, 13. SOCIOLOGY. M.A, Fordham, 42; Ph.D.(sociol), Harvard, 53. Instr. philos, Santa Clara, 38-40; asst. prof. SOCIOL, LOYOLA (CALIF), 53-61, ASSOC. PROF. & CHMN. DEPT, 61- Sociol. Asn. Family; urbanization; theory. Publ: Chap. 12, The family in Ireland, In: Comparative family systems, Houghton, 65; New Dubliners: urbanization and the Irish family, Routledge & Kegan Paul, London & Fordham Univ, 66; Evolving Irishman: the urban family in a Catholic country, Soc. Order. Address: Dept. of Sociology, Loyola University, 7101 W. 80th St, Los Angeles, Calif. 90045.

HUMPHREYS, PROF. LLOYD G(IRTON), b. Lorane, Ore, Dec. 12, 13; m. 37; c. 4. PSYCHOLOGY. B.S, Oregon, 35; A.M, Indiana, 36; Ph.D.(psychol), Stanford, 38. Nat. Res. Coun. fel, Yale, 38-39; instr. psychol, Northwestern, 39-41; Carnegie fel. anthrop, Columbia, 41-42; asst. prof. psychol, Northwestern, 45-46; assoc. prof. & dir. test. bur, Washington (Seattle), 46-48; assoc. prof. ed. & psychol, Stanford, 48-51; dir. personnel res. lab, Air Force Personnel & Training Res. Center, Lackland Air Force Base, 51-57; PROF. PSYCHOL, ILLINOIS, URBANA, 57-, HEAD DEPT. 59-, vis. prof, 55. With psychobiol. prog, Nat. Sci. Found, 57-60. Mem. Air Force Sci. Adv. Bd, 57-59. U.S.A.A.F, 42-45. AAAS; fel. Psychol. Asn; Psychomet. Soc. (pres, 59-60); Psychonomic Soc. Conditioning; individual differences; measurement. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61801.

HUMPHRIES, DR. CHARLES C(REIGHTON), b. Miami, Fla, Aug. 23, 24; m. 57; c. 2. PSYCHOLOGY. B.S, Florida, 49, M.A, 56; Ph.D, 60. Psychologist, Fla. State Hosp, Chattahoochee, 58-60; clin. psychologist, E.La. State Hosp, Jackson, 60-61, dir. psychol, 61-62; staff psychologist, S.FLA. STATE HOSP, 62-66, DIR. PSYCHOL. DEPT, 66- Summer asst. prof, Miami-Dade Jr. Col, 66. Consult, Terrebonne Guid. Center, 60-61. U.S.A, 43-45. Psychol. Asn. Schizophrenia and developmental history. Address: Psychology Dept, South Florida State Hospital, Hollywood, Fla. 33023.

HUMPHRIES, DR. MICHAEL, b. Birmingham, Eng, May 24, 23; nat. Can; m. 48; c. 1. PSYCHOLOGY. B.A, Toronto, 52, M.A, 53, Nat. Res. Coun. Can. fel. & Ph.D.(psychol), 57. Lectr. psychol, Toronto, 55-56; scientist, med. labs, Defense Res. Bd. Can, 56-61; asst. prof, Alberta, 61-63, assoc. prof, 63-64; Manitoba, 64-66; defence scientist, Defence Res. Bd, Toronto, 66-67; PRIVATE PRACTICE, 67- Am. Psychol. Asn; Can. Psychol. Asn. Experimental psychology, especially human learning, motor skills and problems of aging; applications of telemetry in research on human behavior. Publ: Method of estimating R.M.S. error in pursuit rotor performance & co-auth, Age and training in the development of a motor skill, Perceptual & Motor Skills. Address: 7050 Marine Dr, West Vancouver, B.C, Can.

HUND, PROF. JAMES M(ADDEN), b. Detroit, Mich, Apr. 27, 22; m. 50; c. 2. ECONOMICS. A.B, Amherst Col, 44; M.A, Princeton, 52, Ph.D.(econ), 54. Asst. prof. econ. & sociol, Clark, 54-57, dir. div. bus. admin, 56-57; assoc. prof. BUS. ADMIN, EMORY, 57-61, PROF, 61-, dean grad. sch. bus. admin, 65-68. Res. assoc, N.Y. Metrop. Region Study, 57-59. U.S.N.R, 44-46. Econ. Asn. Finance; public control; management. Publ: Electronics, In: Made in New York, Harvard, 59; co-auth, Negro entrepreneurship in Southern economic development, In: Essays in Southern economic development, Univ. North Carolina, 64. Address: 1535 Victoria Falls Dr. N.E. Atlanta, Ga. 30329.

HUNDLEBY, DR. JOHN DENNIS, b. London, Eng, Apr. 17, 28; m. 64. PSYCHOLOGY. M.A, Edinburgh, 53; dipl, London, 55; Ph.D.(psychol), Pa. State, 61. Res. asst. PSYCHOL, Brit. Broadcasting Corp, London, 53-56; res. assoc, Illinois, 60-63, res. asst. prof, 63-64; ASST. PROF, CITY COL. NEW YORK, 64- R.A.F. Am. Psychol. Asn; Brit. Psychol. Soc. Personality theory and measurement; psychometrics; prediction of emotional disturbance in children. Address: Dept. of Psychology, City College of New York, 137th St. & Convent Ave, New York, N.Y. 10031.

HUNDLEY, DR. NORRIS CECIL, JR, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HUNERYAGER, DR. S(HERWOOD) G(EORGE), b. Chicago, Ill, Sept. 17, 33; m. 57; c. 2. BUSINESS PSYCHOLOGY. B.S, Illinois, 56, Found. Econ. Ed. fel, 57, M.S, 58, Ph.D, 62. Instr. personnel mgt. & human rels, Illinois, 56-61; asst. prof. personnel & mgt. & coordinator exec. develop. progs, Arizona State, 61-62; assoc. prof. bus. admin. & dir. mgt. serv, Kansas State, 62-64; asst. dean & assoc. prof. mgt, COL. BUS. ADMIN, Creighton, 64-66; PROF. MGT. & COORDINATOR MGT. AREA, ILLINOIS, CHICAGO, 66- Vis. lectr, Colorado, 64; prin, MAN-TEC Systs. Corp, 66- Consult, State of Ill, 56-; U.S. Civil Serv. Cmn, 64- Indust. Rels. Res. Asn; Inst. Mgt. Sci; Soc. Personnel Admin; Mgt. Asn; Soc. Appl. Anthrop. Personnel and industrial relations: human relations and administrative behavior: training and executive development; organization theory; management and leadership theory. Publ: Co-auth, Human relations in management: Management of the personnel function; Manpower management, Prentice-Hall, 68. Address: College of Business Administration, University of Illinois at Chicago Circle, Box 4348, Chicago, Ill. 60680.

HUNG, DR. FRED C(HIA-CHUN), b. Shanghai, China, Apr. 28, 25; m. 55; c. 3. ECONOMICS. B.A, St. John's Univ, China, 47; Ph.D, Washington (Seattle), 55. Acting instr. econ, Washington (Seattle), 53-54, acting asst. prof, 56; res. fel, Chinese econ. studies, Harvard, 56-57; acting asst. prof, ECON, California, 57-59, asst. prof, 59-60; HAWAII, 60-62, ASSOC. PROF, 62-, asst. economist, econ. res. center, 60-62, assoc. economist, 62-65, acting dir, 63-65. Fulbright-Hays res. fel, Taiwan, 65-66. Econ. Asn. Chinese economic development; economic development of Hawaii; micro-economic and macro-economic theory. Publ: Current economic status of the Hawaiian sugar industry, Econ. Res. Center, Univ. Hawaii, 62; State housing loan program for middle income families in Hawaii, Land Econ, 8/63; co-auth, Conceptual difficulties in measuring China's industrial output, China Quart, 1-3/64. Address: Dept. of Economics, University of Hawaii, Honolulu, Hawaii 96822.

HUNG, PROF. F(REDERICK), b. China, June 9, 06; U.S. resident; m. 33; c. 3. GEOGRAPHY. B.A, Fukien Christian Univ, China, 26; cert, Lyon, France, 30, D.Litt.(geog), 32; dipl, Paris, 33. Spec. lectr, grad. sch. geog, Clark, 51-52; vis. assoc. prof. Chinese studies, Kennedy Sch. Missions, Hartford Sem. Found, 52-54; acting assoc. prof. GEOG, West. Col, 54-55; prof. & head dept, Int. Christian Univ, Tokyo, 55-58; vis. prof, Carroll Col.(Wis), 58-59; PROF. & HEAD DEPT, United Col, Winnipeg, 59-66; GUELPH, 66- U.S. prfnl. grant, 51-52; Can. Coun. res. grants, 63-68; vis. prof, Yale, 65; external exam, Univ. Nan Yang, Singapore, 67-70. AAAS; Asn. Am. Geog; Asn. Asian Studies; Acad. Polit. & Soc. Sci. Regional geography and economic development; political and administrative subdivisions. Publ: China and the West; Vietnam; Administrative provinces of China. Address: 110 Renfield St, Guelph, Ont, Can.

HUNGATE, DEAN ROBERT PAUL, b. Omaha, Nebr, Oct. 8, 25; m. 48; c. 3. FINANCE. Fel, Washington (Seattle), 50-52, B.A, 51; Ph.D, California, Los Angeles, 61. Spec. agent, Fed. Bur. Invest, 52-53; assoc. bus. econ, California, Los Angeles, 55-60, asst. head exec. prog, grad. sch. bus, 56-60; asst. prof. finance & ins, sch. bus, San Diego State Col, 61-63, assoc. prof. FINANCE & dir, bur. bus. & econ. res, 63-65; PROF. & DEAN SCH. BUS. ADMIN, WIS. STATE, OSHKOSH, 65- Summer participant, Ford Found. case study prog, sch. bus, Harvard, 63. U.S.A, 43-46, Res, 46- Finance Asn; Econ. Asn. Small business finance. Publ: Co-auth, Money and finance, State Calif. Dept. Real Estate, 64; Interbusiness financing: the economic implications for small business. Address: School of Business Administration, Wisconsin State University, Oshkosh, Wis. 54901.

HUNKER, PROF. HENRY L, b. Wilkinsburg, Pa, Nov. 14, 24; m. 45; c. 4. GEOGRAPHY. B.A, Pittsburgh, 45, M.A, 48; Ph.D.(geog), Ohio State, 53. Res. assoc. GEOG, OHIO STATE, 53-54, instr, 54-56, asst. prof, 56-59, assoc. prof, 59-64, PROF, 64-, DIR. CENTER COMMUNITY & REGIONAL ANAL, COL. ADMIN. SCI, 68-, asst. dean col. commerce & admin, 66-68. Fulbright lectr, Queensland, 57. Consult, Ohio Geol. Surv; Battelle Mem. Inst; private indust. Asn. Am. Geog. Urban and industrial geography of United States and Canada. Publ: Co-auth, Factors of industrial location in Ohio, Bur. Bus. Res, Ohio State, 63; ed, Erich W. Zimmermann's introduction to world resources, Harper, 64, Spanish ed, 67; ed, The East Lakes geographer, prfnl. jour, E.Lakes Div, Asn. Am. Geogr. Address: Dept. of Geography, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

HUNRICHS, PROF. WILLIAM A, b. Seesen, Germany, Apr. 19, 24; nat; m. 47; c. 3. PSYCHOLOGY. A.B, Stanford, 50, M.A, 53, Ph.D, 55. Counseling psychologist, Vet. Admin. Hosp, Palo Alto, Calif, 55-57; asst. prof. PSYCHOL, SAN DIEGO STATE COL, 57-61, assoc. prof, 61-67, PROF, 67- U.S.M.C.R, 43-46. Psychol. Asn. Clinical psychological principles; psycho-

pathology. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

HUNSBERGER, PROF. G(EORGE) E(PHRAIM), b. Wadsworth, Ohio, Jan. 13, 03; m. 28. ECONOMICS. A.B, Oberlin Col, 25, A.M, 31; Ph.D, Virginia, 34. Asst. & instr, Virginia, 31-34; fel, Brookings Inst, 34-35; instr. ECON, ARKANSAS, 35-37, asst. prof, 37-42, assoc. prof, 42-45, PROF. & CHMN. DEPT, 45- Econ. Asn; Acad. Polit. & Soc. Sci. History of economic thought; international trade. Address: College of Business Administration, University of Arkansas, Fayetteville, Ark. 72701.

HUNSBERGER, PROF. WARREN S(EABURY), b. Philadelphia, Pa, Aug. 28, 11; m. 42; c. 3. ECONOMICS. A.B, Yale, 33, Ph.D.(econ), 37; Nat. War Col, 51. Instr. econ, Princeton, 37-40; asst. prof, New Hampshire, 40-46; chief Japan res. br, U.S. Dept. State, 45-48, chief div. res, Far East, 49-50; mem. staff, President's Mat. Policy Cmn, 51-52; prog. officer, Joint Brazil-U.S. Econ. Develop. Cmn, Rio de Janeiro, 52-53; U.S. Opers. Mission, Mexico City, 53; Haloid prof. int. econ, Rochester, 54-59; Far East regional economist, Int. Coop. Admin, D.C, 59-61; prof. develop. programming, inst. int. develop, sch. adv. int. studies, Hopkins, 61-63; Ford Found. adv, econ. planning unit, Prime Minister's Dept, Malaysia, 63-66; PROF. ECON, AMERICAN UNIV, 66- Lectr, univ. col, Rutgers, 39-40; economist, O'Ryan Study Mission, Japan & China, 40; Off. Adminstr. Export Control, 41. Mem, Coun. For. Rels; Southeast Asia Develop. Adv. Group for U.S. Agency Int. Develop, 67- U.S.N.R, 41-46, Capt. Econ. Asn; Asn. Asian Studies; Soc. Int. Develop. Asian economic affairs, especially international trade and development in Asia. Publ: Japan and the United States in world trade, Harper, 64; Rapid growth of exports from Taiwan and Korea, U.S. Dept. State, 67; auth, Lessons from Japan's development, Sch. Adv. Int. Studies Rev. Address: 3606 35th St. N.W, Washington, D.C. 20016.

HUNSICKER, PROF. ALBERT L, b. U.S, Feb. 14, 12. PSYCHOLOGY. A.B, Kansas, 37, M.A, 39; Ph.D, Chicago, 50. Asst. psychol, Chicago, 39-41; clin. psychologist, Behav. Clin, Cook County Criminal Court, 41-42; chief psychologist, Kankakee State Hosp, Ill, 42; instr. psychol, Chicago, 46-47; co-chief psychologist, Chicago Psychiat. Inst, 49-50; chief psychologist, Galesburg State Res. Hosp, 50-62; PROF. PSYCHOL, BRADLEY, 62-, HEAD DEPT, 66- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 54. U.S.A.A.F, 42-46, 2nd Lt. Psychol. Asn; Sci. Res. Soc. Mental deterioration; motivational impairment; projective techniques; perception; personality test. Publ: Short screening test for organic deficit, J. Clin. Psychol; Chlorpromazine and communication processes, Arch. Neurol. & Psychol; Some behavioral effects associated with feeding sodium glutamate to patients with psychiatric disorders, J. Nervous & Ment. Disorders. Address: Dept. of Psychology, Bradley University, Peoria, Ill. 61606.

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HUNT, DR. BISHOP C(ARLETON), b. Bridgeport, Conn, Apr. 25, 00. ECONOMICS. B.B.A, Boston, 20; A.M, Harvard, 26, Ph.D, 30; London, 28-29. Instr. & tutor econ, Harvard, 30-35; economist, Price, Waterhouse & Co, 35-40; mem. res. staff, cmt. fiscal policy, Nat. Bur. Econ. Res, 40-41; economist, 43-65; John Hancock Mutual Life Ins. Co, 50-65, second v.pres, 50-56, v.pres, 56-65; RETIRED. Fel. Am. Acad. Arts & Sci. Accounting and taxation; development of the business corporation in England from 1800 to 1867; social, economic and financial aspects of life insurance. Address: Highfield, Wilton, N.H. 03086.

HUNT, DR. CHESTER L(EIGH), b. Duluth, Minn, July 24, 12; m. 42; c. 2. SOCIOLOGY. B.A, Nebr. Wesleyan, 34; M.A, Washington (St. Louis), 37; Ph.D.(sociol), Nebraska, 48. ASSOC. PROF. soc. sci, Nebr. State Teachers Col, 41-42; SOCIOL, WESTERN MICH, 48- Fulbright grant, Philippines, 52-54, 61-62; prof. develop. admin. & head dept. sociol, Ahmadu Bello Univ, Nigeria, 67-68. Consult, dept. soc. welfare, P.I, 54. U.S.A, 42-47. Sociol. Asn; Soc. Study Social Probs; Philippine Sociol. Soc. Community development; urbanization in West Africa; Southeast Asia; race relations; sociology of religion. Publ: Co-auth, Community development: readings on the Philippines, Garcia, 64 & Sociology, McGraw, 64; auth, Social aspects of economic development, McGraw, 66. Address: 2248 Crest Dr, Kalamazoo, Mich. 49001.

HUNT, PROF. DARWIN P(AUL), b. Lima, Ohio, July 16, 26; m. 53. PSYCHOLOGY. A.B, Miami (Ohio), 50; Ph.D, Ohio State, 60. Asst. psychol, human eng. br, aeromed. lab, Wright-Patterson Air Force Base, 51-54, res. psychologist, 54-62; asst. prof. PSYCHOL, Dayton, 62-64, assoc. prof, 64-67; PROF. & HEAD DEPT, NEW MEXICO STATE, 67- U.S.N, 44-46. AAAS; Psychol. Asn; Psychonomic Soc; Human Factors Soc. Effects of controller dynamics and informational feedback variables on human tracking performance; man's tactual sensory abilities; human learning, decision making, and categorization behavior. Publ: Coding of aircraft controls; Effect of the precision of informational feedback on human tracking performance, Human Factors J; Effect of the similarity between a nonreinforced and a reinforced conditioned stimulus on the acquisition and extinction of a conditioned response, J. Exp. Psychol. Address: 2005 Huntington Dr, Las Cruces, N.Mex. 88001.

HUNT, PROF. DAVID E(LLIS), b. Richmond, Ind, Sept. 7, 25; m. 47; c. 2. PSYCHOLOGY. B.S, Purdue, 49; M.A, Ohio State, 51, Ph.D.(psychol), 53. Asst. prof. PSYCHOL, Yale, 53-59; from assoc. prof. to PROF, SYRACUSE, 59- U.S.A, 43-46. Psychol. Asn. Personality development, theory and measurement; development of perception of interpersonal causality in children and adolescents. Publ: Conceptual systems and personality organization. Address: Dept. of Psychology, Syracuse University, Syracuse, N.Y. 13210.

HUNT, DONALD H(ARVEY), Anthrop, see 10th ed, Soc. & Behav. Vols.

HUNT, DR. EARL BUSBY, b. San Francisco, Calif, Jan. 8, 33; m. 54; c. 4. PSYCHOLOGY. B.A, Stanford, 54; Gen. Elec. Co. fel, Yale, 57-59, Nat. Sci. Found. fel, 59-60, Ph.D.(psychol), 60. Res. asst. psychol, Yale, 60-61, asst. prof, 61; acting asst. prof. & consult. bus. admin, California, Los Angeles, 61-63; lectr. psychol, Sydney, 63, sr. lectr. comput. sci, 64-65; assoc. prof. bus. admin, California, Los Angeles, 65-66; PROF. PSYCHOL. & COMPUT. SCI, WASHINGTON (SEATTLE), 66- U.S.M.C, 54-57, 1st Lt. AAAS; Psychol. Asn; Asn. Comput. Mach; Psychonomic Soc. Artificial intelligence systems; physiology of memory; human information processing; mathematical psychology. Publ: Concept learning, Wiley, 62; co-auth, Experiments in induction, Acad. Press, 66. Address: 2001 Killarney Drive, Bellevue, Wash. 98004.

HUNT, DR. EDWARD E(YRE), Phys. Anthrop, see 11th ed. Phys. & Biol. Vols.

HUNT, EDWARD L(AWRENCE), Physiol. Psychol. See 11th ed, Suppl. II to Phys. & Biol. Vols.

HUNT, DR. ELEANOR P(HELPS), Sociol, see 10th ed, Soc. & Behav. Vols.

HUNT, ELGIN F(RASER), b. Orange, Conn, Apr. 30, 95; m. 33; c. 2. ECONOMICS, SOCIAL SCIENCE. A.B, Oberlin Col, 17; M.A, Chicago, 43. Instr, Crane Jr. Col, 28-32; chmn. soc. scis. dept, Wilson Jr. Col, 33-60; lectr. econ, Northwestern, 42-62; RETIRED. U.S.A, 17-18. Econ. Asn. Money and banking; price theory; income and employment theory. Publ: Social science, an introduction to the study of society, Macmillan, 3rd ed, 66; co-auth, Economics, an introduction to principles and problems; co-ed, Society today and tomorrow, Macmillan, 2nd ed, 67. Address: 5404 Kimbark Ave, Chicago, Ill. 60615.

HUNT, DR. HOWARD F(RANCIS), Psychol, see 11th ed, Phys. & Biol. Vols.

HUNT, PROF. JACOB TATE, b. Sweetwater, Tenn, Aug. 22, 16; m. 44; c. 1. PSYCHOLOGY. B.S, Maryville Col, 38; M.S, Tennessee, 41, Ph.D, California, 50. Teacher, Castle Heights Mil. Acad, 38-39; pub. schs, Tenn, 39-40, Wash, 40-42; instr. reading improv, California, 46-48; asst. prof. ed. psychol. & dir. reading clin, Western Reserve, 48-51; from asst. prof. to assoc. prof, North Carolina, 51-57; prof. ed. psychol. & chmn. div. spec. ed, Arizona, 57-64; PROF. EXCEPT. CHILDREN & CHMN. DIV. SPEC. ED, WASHINGTON (SEATTLE), 64- Ford Found. fel, Inst. Res. Except. Children, Illinois, 56-57; summers, vis. prof, Washington, California, Bowling Green State, Illinois & Colorado. U.S.N.R, 42-45, Lt. Coun. Except. Children; Ed. Res. Asn.(ed, Newsletter, ed, Rev. Ed. Res, 64-); Psychol. Asn; Asn. Ment. Deficiency. Psychology of reading; personal and academic adjustment of exceptional children. Publ: Relation among vocabulary, structural analysis and reading, J. Ed. Psychol; School personnel and mental health & Emotional development in childhood and adolescence, Rev. Ed. Res. Address: Dept. of Education, Miller Hall, University of Washington, Seattle, Wash. 98105.

HUNT, DR. JAY B(RYON), b. Snowflake, Ariz, July 15, 20; m. 44; c. 6. POLITICAL SCIENCE. A.B, Utah, 47, A.M, 48, Ph.D, 50. Asst. prof. hist. & polit. sci, Brigham Young, 50-51, 54-60; spec. agent, Fed. Bur. Invest, 51-53; ASSOC. PROF. SOC. STUDIES, NORTHERN ARIZONA, 60- United States history and foreign policy; Latin American history and governments. Publ: Act of Chapultepec and the United Nations; Entrance of Brazil into the United Nations; Federal aid and Utah government. Address: Dept. of Social Studies, Northern Arizona University, Flagstaff, Ariz. 86001.

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HUNT, PROF. PEARSON, b. New York, N.Y, Dec. 10, 08; m. 35; c. 2; m. 62; c. 1. BUSINESS ADMINISTRATION. Ph.B, Yale, 30; M.B.A, Harvard, 33, D.C.S, 39. Instr, Yale, 35-40; asst. prof. finance, BUS. SCH, HARVARD, 40-46, assoc. prof, 46-50, prof. bus. admin, 50-66, George F. Leatherbee lectr, 64, EDMUND COGSWELL CONVERSE PROF. FINANCE & BANKING, 67- Mem. staff, radiation lab, Mass. Inst. Tech, 44-45; vis. prof, Carnegie Inst. Tech, 49; prof. & dean, IPSOA Grad. Bus. Sch, Italy, 53-55; vis. prof, Int. Center Adv. Mgt. Ed, 62-63. Financial consult. Econ. Asn; Finance Asn. Corporation finance; materials and methods of teaching. Publ: Basic business finance; The organization of financial work; A new definition of finance, Indian J. Commerce. Address: Harvard University School of Business, Soldiers Field P.O, Boston, Mass. 02163.

HUNT, PROF. R(AYMOND) G(EORGE), b. Buffalo, N.Y, July 1, 28; m. 49; c. 2. PSYCHOLOGY. B.A, Buffalo, 52, Ph.D.(psychol), 58. Instr. psychol, Buffalo, 56-58; asst. prof, Washington (St. Louis), 58-61, res. asst. prof. MED. PSYCHOL, sch. med, 59-61; assoc. prof. to PROF, STATE UNIV. N.Y. BUFFALO, 61- Consult, Vet. Admin; Int. Revenue Serv, 66- U.S.A, 46-48.

Psychol. Asn; Sociol. Asn; Indust. Rels. Res. Asn. Organization theory; management development; role theory; personality and interpersonal relations. Publ: Co-auth, Current perspectives in social psychology, Oxford Univ, 67; co-auth, Nurses, patients and social systems, Univ. Missouri, 67; auth, Sociocultural factors in mental disorder, Behav. Sci. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

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HUNT, DR. RICHARD M, Hist, Soc. Sci., see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HUNT, DR. ROBERT CUSHMAN, JR, b. Binghamton, N.Y, May 30, 34; m. 60; c. 1. ANTHROPOLOGY. B.A, Hamilton Col, 56; M.A, Chicago, 59; Nat. Inst. Ment. Health trainee, Northwestern, 61-63, Ph.D.(anthrop), 65. Instr. ANTHROP, Northwestern, 64-65, ASST. PROF, 65-66; ILLINOIS, CHICAGO, 66- Co-prin. investr, Nat. Sci. Found. grant, intervillage structure in Oaxaca, 63-66. Consult, Chicago Cmn. Youth Welfare, 65. AAAS; fel. Anthrop. Asn; Ethnol. Soc; Ling. Soc. Social and psychological anthropology; ethnology; ethnohistory; social anthropology of Middle America. Publ: Ed, Personalities and cultures, Natural Hist. Press, 67; auth, The developmental cycle of the family business in rural Mexico, In: Essays in economic anthropology, Proc. Ann. Spring Meeting, Am. Ethnol. Soc, 65; From parallel-nominal to patrinominal: changing Cuicatec personal names, Anales, INAH, Mex, 68. Address: Dept. of Anthropology, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

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HUNT, DR. STACY ROY, JR, b. Syracuse, N.Y, Nov. 5, 35; m. 59; c. 3. PHYSIOLOGICAL PSYCHOLOGY. B.A, Syracuse, 56, Ph.D.(physiol. psychol), 64. ENGR, VALLEY FORGE SPACE TECH. CENTER, GEN. ELEC. CO, 64- AAAS; Psychol. Asn; Inst. Aeronaut. & Astronaut. Human engineering; visual perception; experimental psychology. Address: 256 Anderson Rd, King of Prussia, Pa. 19406.

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HUNT, PROF. WILLIAM A(LVIN), b. Hartford, Conn, Nov. 10, 03; m. 29, 60. PSYCHOLOGY. A.B, Dartmouth Col, 28, Chamberlin scholar, 28-30; A.M, Harvard, 29, Ph.D.(psychol), 31. Asst. PSYCHOL, Harvard, 30-31; instr, Dartmouth Col, 31-33; Conn. Col. for Women, 33-34, asst. prof, 34-37; asst. N.Y. State Psychiat. Inst. & Hosp, 37; res. assoc, neuropsychiat. inst, Hartford Retreat, 37-38; assoc. prof, Wheaton Col, 38-40, prof, 40-45, Northwestern, 46-67, chmn. dept, 51-67; PROF, LOYOLA (ILL), 67- Consult, Surg. Gen, U.S. Army & Navy; Army Sci. Adv. Panel, 56-; Nat. Inst. Ment. Health, 62-; Nat. Security Agency, 63. U.S.N, 41-46, Res, 46-, Capt. AAAS; fel. Psychol. Asn.(award, 67); Soc. Exp. Psychol. Psychometric testing; physiology of emotion; abnormal and experimental clinical psychology. Publ: Ed, Psychology in the schools, J. Res, Opinion & Practice, 64- Address: Dept. of Psychology, Loyola University, Chicago, Ill. 60626.

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HUNTER, DR. GENEVIEVE P(ATRICIA), Psychol, Guid, see 10th ed, Soc. & Behav. Vols.

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HUNTER, PROF. HOLLAND, b. Evanston, Ill, July 6, 21. ECONOMICS. B.S, Haverford Col, 43; A.M, Harvard, 47, Ph.D, 49. Asst. prof. ECON, HAVERFORD COL, 48-53, assoc. prof, 53-60, PROF, 60-, CHMN. DEPT, 63- Guggenheim fel, 58; Brookings res. prof, 62-63; mem. sr. staff, Brookings Inst, 65-66. Consult, Ford Found; Nat. Bur. Econ. Res; systs. div, Bendix Corp, 62-64; Burroughs Corp, 65-67. Mem. cmt. grants-in-aid, Soc. Sci. Res. Coun, 61-64. Econ. Asn; Asn. Asian Studies; Asn. Adv. Slavic Studies. Soviet economy; economic development; arms control. Publ: Co-auth, Economies of the world today, 2nd ed, Harcourt, 66; auth, Soviet transport experience: its lessons for other countries, Brookings, 68; The control of unknown arms, J. Conflict Resolution, 9/63. Address: Dept. of Economics, Haverford College, Haverford, Pa. 19041.

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HUNTER, PROF. JOHN M(ERLIN), b. Champaign, Ill, Dec. 1, 21; m. 48; c. 3. ECONOMICS. B.S, Illinois, 43, M.S, 47; A.M, Harvard, 49, Ph.D, 51. Asst. prof. ECON, MICH. STATE, 50-54, assoc. prof, 54-58, PROF, 58-, exec. officer dept, 56-57, acting head, 57-58. Dir, center study on econ. develop, Univ. of Andes, Colombia, 58-60; prog. specialist, Ford Found. & adv, Cordoba Nat. Univ, 62-64; economist, Midwest Univs. Consortium, Rio de Janeiro, 67-68. Mem. adv. group, Saigon, Viet Nam, 55-56. U.S.A, 43-46, Capt. Econ. Asn. International economics; economic development; international economic organization. Publ: Co-auth, Principles of money and banking & Michigan and its foreign trade; auth, Emerging Colombia, Pub. Affairs, 62. Address: Dept. of Economics, Michigan State University, East Lansing, Mich. 48823.

HUNTER, DR. JOHN W, b. Hastings, Pa, Jan. 15, 34; m. 56; c. 2. SOCIOLOGY. A.B, Lycoming Col, 55; S.T.B, Boston, 59, Ph.D.(sociol, soc. ethics), 64; Copenhagen, 60-61. ASST. PROF. SOCIOL, GREENSBORO COL, 64- Sociol. Asn. Social ethics; race relations; sociology of religion. Address: Dept. of Sociology, Greensboro College, Greensboro, N.C. 27402.

HUNTER, DR. KENNETH H(AMILTON), b. Lewiston, Idaho, Mar. 25, 00; m. 28, 59. ECONOMICS, STATISTICS. A.B, Idaho, 23; M.B.A, Oregon, 25; Ph.D.(finance, statist. & econ. hist), American Univ, 35. Agr. specialist, U.S. Bur. Census, 30-32; economist, Fed. Trade Cmn, 34-35; asst. prof.

rural econ, Arkansas, 36-37; finance, Colorado, 37-38; economist, Farm Credit Admin, 38-41; bur. labor statist, War Prod. Bd, Civilian Prod. Admin, 41-47; prof. econ. & head dept, American Univ, 47-50; commodity specialist, govt. agencies, 50-54; Int. Coop. Admin, 54-56; Fed. Trade Cmn, 56-63; ASST. TO PRES. & PROF. SOC. SCI, OHIO VALLEY COL, 63- Econ. Asn. Industrial materials; agricultural products; money and banking. Co-auth, War production board's steel division experience with World War II controls; Classification and rating of farm fire risks; co-auth, Adequacy of banking facilities in Colorado. Address: 204 55th St, Vienna, W.Va. 26101.

HUNTER, DR. ROBIN CYRIL ADAIR, b. Jamaica, B.W.I, Mar. 2, 19; Can. citizen; m. 51; c. 3. PSYCHIATRY, PSYCHOANALYSIS. M.D, C.M, McGill, 50. Jr. rotating intern, Royal Victoria Hosp, Montreal, Que, 50-51, res. psychiat, Allan Mem. Inst, 51-53; registr, Maudsley Hosp, Univ. London, 53-55; demonstr. psychiat, McGill, 55-57, lectr, 57, asst. prof, 61; asst. psychiatrist, Royal Victoria Hosp, 58, assoc. psychiatrist, 60; PROF. PSYCHIAT. & HEAD DEPT, Queen's (Ont), 64-67; TORONTO, 67-; PSYCHIATRIST-IN-CHIEF, CLARKE INST. PSYCHIAT, 67- Psychiatrist-in-chief, Kingston Gen. Hosp, Ont, 64-67. Mem. subcmt. pub. ed, Can. Dept. Ment. Health & Welfare & adv. med. bd, Ont. Ment. Health Found, 64. R.C.A.F, 40-45, Flight Lt. AAAS; Can. Psychoanal. Soc; Can. Psychiat. Asn; Can. Med. Asn; Am. Med. Asn; Asn. Am. Med. Cols; Col. Health Asn; Am. Psychiat. Asn. Address: Dept. of Psychiatry, University of Toronto, 250 College St, Toronto 2B, Ont, Can.

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HUNTER, DR. STEPHEN CARL, European Diplomatic Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HUNTER, DR. STEVEN JOHN, b. Molodechno, Poland, Jan. 1, 36; nat; m. 58. ECONOMICS. A.B, Drew, 58; Earhart & Thomas Jefferson Center fels. & Ph.D, Virginia, 63. Instr. econ, Virginia, 60-61; asst. prof, N.C. Wesleyan Col, 61-62; George Washington, 62-67; consult. economist, 67; PRES, WASH. RES. INST, 68- Econ. Asn; Finance Asn. Interest rate theory; theory of games and economic behavior; post-revolutionary Russia. Publ: Capital and credit markets in West Virginia, Govt. Printing Off, 68. Address: 2731 N. Norwood St. Arlington, Va. 22207.

HUNTING, DR. C(LARENCE) E(UGENE), b. Plainfield, N.J, May 23, 30. PSYCHOLOGY. A.B, Rutgers, 53; Ph.D.(physics), Mass. Inst. Tech, 58. Asst. physics, Mass. Inst. Tech, 53-57; res. assoc, Kansas, 58; physicist, Oak Ridge Nat. Lab, 58-61; asst. dir, nuclear physics prog, Nat. Sci. Found, 61-64; RES. PSYCHOLOGIST, CARNEGIE-MELLON UNIV, 64- AAAS; Asn. Comput. Mach; Phys. Soc. Rapid physiological indicators of human information processing; theories of complex information processing; computer-controlled laboratories. Publ: Electrocardiograph and human information processing, Proc. 20th Annual Conf. Eng. in Med. & Biol, 67. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

HUNTINGTON, DR. DOROTHY S(PATZ), b. New York, N.Y, Nov. 12, 27; m. 52. PSYCHOLOGY. B.A, Columbia, 48; M.A, Radcliffe Col, 52; Ph.D. (clin. psychol), Harvard, 53. U.S. Pub. Health Serv. fel, Phila. Child Guid. Clin, 53-55; sr. clin. & res. psychologist, psychiat. serv. & chief psychologist, child psychiat. unit, Beth Israel Hosp, 55-67; RES. DIR. INFANT REARING STUDY, CHILDRENS HOSP. OF D.C, 67- Instr, Harvard Med. Sch, 56-59, res. assoc, 59-67. Psychol. Asn. Psychological processes of pregnancy; child development; prevention of culturally determined retardation. Publ: Study of the psychological processes in pregnancy and of the earliest mother-child relationship. I. Some propositions and comments. II. Methodological considerations, In: Psychoanalytic study of the child. Address: 3133 38th St, N.W, Washington, D.C. 20016.

HUNTINGTON, DR. EMILY H, Econ, see 10th ed, Soc. & Behav. Vols.

HUNTINGTON, PROF. SAMUEL P(HILLIPS), b. New York, N.Y, Apr. 18, 27; m. 57; c. 2. POLITICAL SCIENCE. B.A, Yale, 46; M.A, Chicago, 48; fel, Harvard, 49-50, Ph.D.(polit. sci), 51. Instr. GOVT, Harvard, 50-53, asst. prof, 53-58; assoc. prof, Columbia, 59-62; prof, HARVARD, 63-67, FRANK G. THOMSON PROF. & CHMN. DEPT, 67- Consult. & res. assoc, Brookings Inst, 52-53; Soc. Sci. Res. Coun. fel, 54-57; res. assoc, inst. war & peace studies, Columbia, 58-63, asst. dir, 58-59, assoc. dir, 59-62; Falk lect, Carnegie Inst. Tech, 59; Ford res. prof, Columbia, 60-61; res. assoc, center int. affairs, Harvard, 63-64, faculty mem, 64-66, mem. exec. cmt, 66-; Stimson lect, Yale, 66. Consult, U.S. Agency Int. Develop, 67-; policy planning coun, U.S. Dept. State, 67- Trustee, Center Rural Develop, 67- Chmn. coun. Vietnamese studies, Southeast Asia Develop. Adv. Group, 66- U.S.A, 46-47. Am. Polit. Sci. Asn; fel. Am. Acad. Arts & Sci; Coun. For. Rels; Inst. Strategic Studies; Soc. Pub. Admin; Int. Polit. Sci. Asn. American national government; defense policy and administration; comparative politics; political development. Publ: The soldier and the state: the theory and politics of civil-military relations, Harvard, 57; The common defense: strategic programs in national politics, Columbia, 61; co-auth, Political power: USA/USSR, Viking, 64. Address: Center for International Affairs, Harvard University, 6 Divinity Ave, Cambridge, Mass. 02138.

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HURLEY, RAY, b. Sturgills, N.C, June 7, 07; m. 32; c. 4. AGRICULTURAL ECONOMICS, STATISTICS. B.S, Pa. State Col, 29; fel, Maryland, 29-30, M.S, 30. Jr. agr. economist, U.S. Bur. Census, 30-31; assoc. agr. economist, Maryland, 31-33; admin. officer, Agr. Adjust. Admin, 33-34; sr. agr. economist, U.S. BUR. CENSUS, 34-37, adv. to the President & acting dir. bur, Commonwealth Philippines, 37-41, chief div. cotton & oils, 41-43, CHIEF AGR. DIV. & AGR. ECONOMIST, 46- U.S.A, 43-46, Lt. Col. Agr. Econ. Asn. Statistics and methodology. Publ: Census of the Philippines; Cotton ginning machinery and equipment in the United States; Plans for the 1954 census of agriculture, J. Farm Econ. Address: Box 237, Glenn Dale, Md. 20769.

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HURLOCK, DR. ELIZABETH B(ERGNER), b. Harrisburg, Pa, July 4, 98. PSYCHOLOGY. A.B, Bryn Mawr Col, 19, A.M, 22; Ph.D, Columbia, 24. Teacher, schs, N.Y. & Pa, 19-21; instr. psychol, Columbia, 24-40, assoc, 40-46, lectr, Barnard Col, 25-27; assoc, Pennsylvania, 49-59, sch. ed, 59-67; AUTHOR & LECTR, 67- AAAS; Psychol. Asn. Childhood and adolescence; psychology of dress; developmental psychology. Address: 1900 Rittenhouse Square, Philadelphia, Pa. 19103.

HURNI, MELVIN L, Indust. Eng, see 10th ed, Soc. & Behav. Vols.

HURSCH, DR. CAROLYN JUDGE, b. Cranston, R.I, Apr. 7, 21; m. 62. PSYCHOLOGY. A.B, Indiana, 52; Nat. Inst. Ment. Health fel, California, Los Angeles, 58-59; M.A, Colorado, 61, Nat. Inst. Ment. Health fel, 63-65, Ph.D. (psychol), 65. Res. assoc, Louisville, 54-56; statistician, biotech. lab, California, Los Angeles, 58-59; asst. psychol, Colorado, 59-63; asst. prof, Castleton State Col, 65-66; res. assoc, Vermont, 66, asst. prof, 66-67; RES. ASSOC, DEPT. PSYCHOL, J. HILLIS MILLER HEALTH CENTER, FLORIDA, 67- U.S. Pub. Health Serv. res. grant, 65-66; asst. prof, exten. div, Vermont, 65-66. Psychol. Asn. Statistics and methodology; community mental health; suicidology; human engineering. Publ: Co-auth, Some methodological considerations in multiple-cue probability studies, 64 & Analyzing the components of clinical inference, 64, Psychol. Rev. Address: Dept. of Clinical Psychology, J. Hillis Miller Health Center, University of Florida, Gainesville, Fla. 32601.

HURST, DR. CHARLES G, JR, b. Atlanta, Ga, June 14, 28; m. 63; c. 6. SOCIOLINGUISTICS, COMMUNICATION SCIENCE. B.S, Wayne State, 53, M.A, 59, Ph.D.(speech), 61. Asst. dir. remedial prog. speech & instr, Wayne State, 55-61; PROF. SPEECH, HEAD DEPT. & DIR. COMMUN. SCI. RES. CENTER, HOWARD, 61-, ASSOC. DEAN COL. LIB. ARTS, 64-, asst. dean, 61-64. Res. grants, U.S. Off. Ed, Stern Family Fund, United Planning Orgn. & Howard Univ; Voc. Rehab. Admin. fel. to attend commun. disorders seminar, Ohio State Univ, 63 & summer commun. sci. seminar, Univ. Florida, 63 & 64; Nat. Insts. Health travel grant, Int. Cong. Audiol, summer, 64. AAAS; Speech & Hearing Asn; Acoustical Soc. Oral language development; audiology. Publ: Effective expression, Merrill; Higher horizons in speech communication, GEL; Psychosocial concomitants of substandard speech, J. Negro Ed. Address: 2400 Sixth St. N.W, Washington, D.C. 20001.

HURST, PROF. DAVID C(HARLES), b. Bozeman, Mont, Aug. 25, 28; m. 54; c. 1. STATISTICS. B.S, Mont. State Col, 50; M.S, N.C. State Col, 57, Ph.D, 62. Asst. STATIST, N.C. State Col, 53-57; ASSOC. PROF, Va. Polytech, 57-66; MED. COL. ALA, 66- U.S.A, 51-53. Statist. Asn; Inst. Math. Statist. Statistical techniques; design of experiments; non-linear estimation; biostatistics. Address: Dept. of Biostatistics, Medical College of Alabama, 1919 Seventh Ave, Birmingham, Ala. 35233.

HURST, D'ORSEY, b. Mankato, Minn, July 3, 08; m; c. 6. LAW, ECONOMICS. LL.B, Yale, 31, B.A, 32. Law clerk, Kaufman & Weitzner, 32-33; res. dir, Harris Ayers & Co, 33-34; Sales Anal. Inst, 34-35; bus. exec, Time, Inc, 35-54; v.pres. & gen. mgr, Bruce Payne & Assocs, 54-58; v.pres. & consult, McCann Erickson Co, 58-59; PRIN, D'ORSEY HURST & CO, 59- Econ. Asn; Statist. Asn; Asn. Pub. Opinion Res; Sociol. Asn; Mgt. Asn; Mkt. Asn. Criteria for evaluating product lines. Address: D'Orsey Hurst & Co, 347 Madison Ave, New York, N.Y. 10017.

HURST, DR. JAMES C(HARLES), b. Ogden, Utah, June 19, 35; m. 58; c. 4. PSYCHOLOGY. B.S, Utah, 61; Nat. Defense Ed. Act fel, Brigham Young, 62-65, Ph.D.(ed. psychol), 66. Counseling intern, Duke, 65-66; asst. prof. psychol. & counsr, Oregon State, 66-67; ASST. PROF. PSYCHOL, COLORADO, 67-, ASST. DIR, UNIV. COUNSELING CENTER, & COUNSELING PSYCHOLOGIST, 67- U.S.A, 53-55, Sgt. Personnel & Guid. Asn; Psychol. Asn; Asn. Counsr. Ed. & Supv. Effective procedures for training counseling psychologists; Uniquely effective group therapy procedures; relationship of counselor-client diagnosis to therapeutic growth. Publ: Comparative effectiveness of two experimental counselor training procedures, Coun. Ed. & Supv, in press. Address: University Counseling Center, Colorado State University, Ft. Collins, Colo. 80521.

HURST, PROF. JOHN GERWIG, Psychol, see 10th ed, Soc. & Behav. Vols.

HURST, DR. PAUL M(ITCHELL), JR, b. Pittsburgh, Pa, June 12, 27; m; c. 2. EXPERIMENTAL PSYCHOLOGY. B.S, Bucknell, 51; M.S, Pa. State, 54, Nat. Sci. Found. fel, 54-55, Ph.D.(exp. psychol), 55. Instr. psychol, Idaho State Col, 55-56; asst. prof, St. Lawrence, 56-58; opers. res. analyst, U.S. Navy Electronics Lab, 58-60; staff psychologist, HRB-Singer, Inc, 60-64; SR. RES. ASSOC. PSYCHOBIOL, INST. FOR RES, 64-, V.PRES, 67- Consult, HRB-Singer, Inc, 65- Mem. cmt. road user characteristics, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 65- U.S.N.R, 45-46. Psychol. Asn. Psychopharmacology; experimental design; driver behavior; decision making. Publ: Prediction of decisions from a higher ordered metric scale of utility, J. Exp. Psychol; co-auth, The effects of amphetamines upon judgements and decisions, Psychopharmacologia, 12/67; The effects of d-amphetamine and chlordiazepoxide upon strength and estimated strength, Ergonomics. Address: Institute for Research, 257 S. Pugh St, State College, Pa. 16801.

HURST, PROF. R(OBERT) L(EE), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

HURST, THEODORE WARREN, b. Chicago, Ill, Feb. 28, 21; m. 47; c. 3. PSYCHOLOGY. B.A. & M.A, Chicago, 57. Asst. human develop, Chicago, 50-53; v.pres. indust. psychol, Worthington Assocs, Inc, 53-58; OWNER & DIR, WORTHINGTON, HURST & ASSOC, 58- U.S.A, 42-46. Psychol. Asn. Application of clinical psychology to industry; computer analysis of projective techniques; influence of early experience on cognitive behavior. Address: 333 N. Michigan Ave, Chicago, Ill. 60601.

HURT, PROF. FRANK B(ENJAMIN), b. Ferrum, Va, Oct. 22, 99; m. 43. INTERNATIONAL RELATIONS. A.B, Washington & Lee, 23; A.M, Virginia, 25; A.M, Princeton, 26; fel, North Carolina, 26-27. Instr, Ferrum Jr. Col, 27-29; assoc. prof, POLIT. SCI, WEST. MD. COL, 30-65, EMER. PROF, 65-; HEAD DIV. SOC. SCI, FERRUM JR. COL, 65- Lectr, sch. spec. & continuation studies, Maryland, 50-65. U.S.A, 18. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Hist. Asn. Far Eastern international relations; development of federal regulation of railway rates; outline of American government. Address: Division of Social Sciences, Ferrum Junior College, Ferrum, Va. 24088.

HURT, DR. GEORGE REX, b. Sylacauga, Ala, Feb. 20, 24; m. 50; c. 2. ENGINEERING PSYCHOLOGY. B.S, Ga. Inst. Tech, 47; M.S, Purdue, 50; Ph.D. (psychol), Ill. Inst. Tech, 58. Asst. to dean men, Purdue, 48-50; staff psychologist, Beatty Mem. Hosp, 50-53, dir. psychol. dept, 53-54; personnel supvr, Spiegel, Inc, 56-57; dir. psychol. serv, Frank R. Valvoca & Assoc, 57-59; dir, Rex Hurt & Assoc, 59-65; MGT. PSYCHOLOGIST, ROHRER, HIBLER & REPLOGLE, 65- Consult, 57- U.S.N.R, 43-46. Psychol. Asn; Human Factors Soc. Motivation; selection of creative people; visual research; personality modification; learning theory; management development; applied statistics; human factors in engineering design. Publ: Planning R/D centers around human factors; Personality traits of creative R/D personnel; How to make a manager out of an engineer, Res. & Develop. Mag. 6/66. Address: 6436 Forest Ave, Hammond, Ind. 46324.

HURT, PAUL V, b. Cotapaxi, Colo, Aug. 8, 27; m. 59. AGRICULTURAL ECONOMICS, STATISTICS. B.S, Colorado State, 51; M.S, New Mexico, 57; Wisconsin, 57-60; Iowa State, 65-66. Asst. animal husb, New Mexico, 55-57; genetics & animal husb, Wisconsin, 57-60; ANAL. STATISTICIAN, STATIST. REPORTING SERV, U.S. DEPT. AGR, 60- U.S.N, 45-46, 53-54, Res, 54- Soc. Animal Sci. Collection and analyzation of agricultural statistics to determine level and trends in livestock and crop production. Address: 7511 Epping Ave, Oxon Hill, Md. 20022.

HURT, DR. VERNER G(ENE), b. Yazoo City, Miss, Dec. 19, 29; m. 54; c. 3. AGRICULTURAL ECONOMICS. B.S, Miss. State, 50, M.S, 55; Ph.D, Okla. State, 61. Asst. AGR. ECON, Miss. State, 54-55, asst. prof, 56-58; auditor, State Dept. Agr, Miss, 55-56; asst, Okla. State, 58-60; ASSOC. PROF, MISS. STATE, 60- U.S.A, 50-54, Res, 54-, Maj. Agr. Econ. Asn. Production economics; dairy marketing. Publ: Characteristics of farms in the Yellow Creek watershed, Mississippi; Cost and efficiency of selected Mississippi fluid milk plants; Descriptive analysis of the grade A dairy industry in Mississippi. Address: Dept. of Agricultural Economics, Mississippi State University, State College, Miss. 39762.

HURT, PROF. WESLEY R(OBERT), JR, b. Albuquerque, N.Mex, Sept. 20, 17; m. 48. ANTHROPOLOGY. B.S, New Mexico, 38, M.A, 41; fel, Sch. Am. Res, 40-41; Chicago, 46-47, fel, 47-48; Ph.D, Michigan, 52. Field supvr, State Mus, N.Mex, 38-40; ranger, Nat. Park Serv, 41; field archaeologist, State Mus. Natural Hist, Ala, 47; dept. archaeol, Michigan, 48-49; dir. mus, South Dakota, 49-63, assoc. prof. anthrop, 54-56, prof, 56-63; PROF. ANTHROP. & DIR. UNIV. MUS, INDIANA, 63- Vis. prof, California, 61; res. grants, Smith-Mundt, Brazil, 56, Fulbright, 58-59 & Nat. Sci. Found, 67-68; Midwest Univs. consortium summer grant, Colombia, 68. U.S.A, 42-46. Anthrop. Asn; Soc. Am. Archaeol. Early man in new world; archaeology of northern plains; plains ethnology. Publ: Comparative study of the preceramic occupations of North America; Report of the investigation of the Thomas Riggs site; Report of the investigation of the Spotted Bear site. Address: University Museum, 150 Maxwell Hall, Indiana University, Bloomington, Ind. 47401.

HURTER, DR. ARTHUR P(ATRICK), JR, b. Chicago, Ill; m. 56; c. 2. ECONOMICS. B.S, Northwestern, 56, M.S, 57, univ. fel, 57-59, M.A, 60, Soc. Sci. Res. Coun. fel, 60-61, Ph.D.(econ), 62. Asst. prof. INDUST. ENG. & MGT. SCI, NORTHWESTERN, 62-66, ASSOC. PROF, 66-, asst. dir. res, transportation center, 62-65. Res. grants, Resources for Future Inc, 64-65

& Off. Naval Res, 65- Econ. Asn; Opers. Res. Soc; Inst. Mgt. Sci. Theoretical development of investment and other decision models, adaptation of operations research techniques to their solution; research and development project selection; location, transportation and regional economics. Publ: Co-auth, The economics of private truck transportation, W.C. Brown, 65; An application of regenerative stochastic processes to a problem in inventory control, Opers. Res, 5-6/67; Transportation investment and regional development, J. Am. Inst. Planners, 5/64. Address: 1505 W. Norwood St, Chicago, Ill. 60626.

HURVICH, PROF. LEO M(AURICE), b. Malden, Mass, Sept. 11, 10; m. 48. PSYCHOLOGY. B.A, Harvard, 32, M.A, 34, Ph.D.(psychol), 36. Asst. psychol, Harvard, 36-37, instr, 37-40, asst. lab. indust. physiol, 40-47; res. psychologist, Eastman Kodak Co, 47-57; prof. psychol. & chmn. dept, Wash. Sq. Col, N.Y. Univ, 57-62; PROF. PSYCHOL, PENNSYLVANIA, 62- Guggenheim fel, 64-65. Fel. AAAS; Psychol. Asn; fel. Optical Soc; Soc. Exp. Psychol; Biophys. Soc; Psychonomic Soc; fel. N.Y. Acad. Sci. Sensory psychology; psychophysiology of vision; color vision. Publ: Co-translator, Outlines of a theory of the light sense, Harvard, 65; co-auth, Perception of brightness and darkness, Allyn & Bacon, 66; and Some quantitative aspects of an opponent-colors theory, J. Optical Soc. Am. Address: Dept. of Psychology, University of Pennsylvania, 3815 Walnut St, Philadelphia, Pa. 19104.

HURVICH, DR. MARVIN SAMUEL, b. Birmingham, Ala, May 7, 30; m. 56; c. 1. PSYCHOLOGY. B.S, Alabama, 53; M.A, Pennsylvania, 55, fel, 57-60, Ph.D, 60; cert, N.Y. Univ, 68. Staff psychologist, Camden County Psychiat. Hosp, N.J, 58-60; chief clin. psychologist, Ment. Hyg. Consult. Serv, 60-62; PRIVATE PRACTICE, 62- Res. assoc, dept. psychiat, Pennsylvania, 57-60, from asst. instr. to instr, dept. psychol, 58-60; asst. prof, Kansas State, 62; res. assoc, teachers col, Columbia, 64-66; dir. clin. psychol. training, Roosevelt Hosp, New York, 65-; res. scientist, dept. psychol, N.Y. Univ, 67-U.S.A, 60-62, Lt. Psychol. Asn. Personality measurement; experimental psychopathology; psychotherapy. Publ: Co-auth, Psychological correlates of depression, Psychosom. Med; A human modification of the children's apperception test, J. Proj. Tech, 66: auth, Ego function patterns in schizophrenics, Psychol. Reports, 68. Address: 13 W. 13th St, New York, N.Y. 10011.

HURWICZ, PROF. LEONID, b. Moscow, Russia, Aug. 21, 17; nat; m. 44; c. 4. ECONOMICS, STATISTICS. LL.M, Warsaw, 38; London Sch. Econ, 38-39; Geneva, 39-40; Harvard, 41. Asst, Mass. Inst. Tech, 41; mem. faculty, Chicago, 41-45; assoc. prof. econ. & statist, Iowa State Col, 45-49; res. prof. econ. & math. statist, Illinois, 49-51; PROF. ECON. & MATH, MINNESOTA, MINNEAPOLIS, 51- Res. assoc, Cowles Cmn, 41-46, vis. prof, 50; Guggenheim fel, 45-46; fel, Center Adv. Study Behav. Sci, 55-56, 58-59; vis. prof, Stanford, 58-59. Consult, Cowles Cmn, 46-; Econ. Cmn. for Europe, UN, 48; Rand Corp, 50-51; U.S. Bur. Budget, 51-52. Mem. math. div, Nat. Res. Coun, 54- Statist. Asn; fel. Economet. Soc. Economic organization in resource allocation; decision-making under uncertainty; dynamic models. Publ: Theory of economic behavior, Am. Econ. Rev; Statistical inference in dynamic models; Decentralized resource allocation. Address: Dept. of Economics, University of Minnesota Graduate School, Minneapolis, Minn. 55455.

HURWITZ, ABNER, b. Jacksonville, Ill, Oct. 24, 06; m. 31; c. 1. ECONOMICS, STATISTICS. A.B, George Washington, 40. Chief cost of living br, bur. labor statist, U.S. Dept. Labor, 47-59, coordinator revision consumer price index, 59-65; PRIN. STATIST. ADV. BUR. CENSUS. AGENCY INT. DEVELOP. FREETOWN. 65- Econ. Asn; Statist. Asn. Consumer economics. Address: Bureau of the Census, Washington, D.C. 20523.

HURWITZ, DR. JACOB I(SAAC), b. Boston, Mass, Nov. 27, 14; m. 47; c. 3. SOCIAL PSYCHOLOGY. M.S, Boston, 42; Ph.D.(ed), Michigan, 53. New Eng. regional res. adminstr, Cmn. Community Interrel, 46-47; res. consult, Nat. Jewish Welfare Bd, 47-50; from asst. to assoc, res. center group dynamics, Michigan, 50-53; asst. prof. soc. work res. & soc. group work, Pittsburgh, 53-56; res. dir, E.Norfolk Court Clin, Quincy, 56-62; res. dir. alcoholism, med. center & asst. clin. prof, col. of med, N.Y. Univ, 62-65; PROF. & SEQUENCE CHMN. DEPT. RES, SCH. SOC. WORK, WAYNE STATE, 65- Instr, sch. pub. health, Harvard, 56-61; lectr, Boston, 61- Consult, Worcester Youth Guid. Center, 60-61; chronic prob. family proj, United Community Servs, 61- Sociol. Asn; Nat. Asn. Soc. Workers; Coun. Soc. Work Ed. Juvenile delinquency; alcoholism; small groups. Publ: Some effects of power on the relations among group members, In: Group dynamics, theory and research; Three delinquent types: a multivariate analysis, J. Criminal Law, Criminol. & Police Sci, 65; Employed alcoholics: a multilevel interpersonal profile, Quart. J. Studies on Alcohol, 3/68. Address: 23049 Nottingham Dr, Birmingham, Mich. 48010.

HUSAIN, DR. ASAD, b. Patna City, India, Apr. 19, 29. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Patna, 51, M.A, 53; M.A, Minnesota, Minneapolis, 56 & 59, Ford Found. fel, 62-64, univ. fel. & Ph.D.(int. rels), 65. Publicity organizer, Ministry Info. & Broadcasting, Govt. India, 53-54; asst. prof. hist, Winona State Col, 61-62; res. fel, Minnesota, Minneapolis & Hill Found, St. Paul, 65-66; ASST. PROF. POLIT. SCI, KANS. STATE COL. PITTSBURG, 66- Asn. Asian Studies; Polit. Sci. Asn; Int. Union Orientalists. Nepal's relations with India. Publ: The future of English language newspapers in India, Journalism Quart, spring 56; Bibliography of political Nepal, Govt. Nepal, 7/66; British-Nepalese cooperation during World War I, Asian Studies, 12/66. Address: Dept. of Political Science, Kansas State College of Pittsburg, Pittsburg, Kans. 66764.

HUSBAND, PROF. RICHARD W(ELLINGTON), b. Hanover, N.H, Aug. 8, 04. PSYCHOLOGY. B.A, Dartmouth Col, 26; M.A, Stanford, 27, Ph.D.(psychol), 29. Asst. prof. psychol, Wisconsin, 29-41; Pa. State Col, 41-42; researcher, indust. rels, U.S. Steel Corp, 42-45; assoc. prof. PSYCHOL, Iowa State Col, 46-47, PROF, 47-53; FLA. STATE, 53- Psychol. Asn. Industrial, applied and vocational psychology; salesmanship; college personnel. Address: Dept. of Psychology, Florida State University, Tallahassee, Fla. 32306.

HUSBAND, DR. W(ILLIAM) H(OLLOW), Finance, Acct, see 10th ed, Soc. & Behav. Vols.

HUSCHLE, DR. MARY J(OSEPHINE), b. U.S, Nov. 20, 00. POLITICAL SCIENCE. A.B, St. Joseph's Col. Women, 22; LL.B, Fordham, 25; J.D, St. Lawrence, 27. Prof. law & govt, St. Joseph's Col.(N.Y), 30-66; RETIRED. Private practice. Polit. Sci. Asn; Am. Soc. Int. Law. American government; constitutional law. Publ: Centralization, I.F.C.A. Quart. Address: Dept. of Law & Government, St. Joseph's College for Women, Brooklyn, N.Y. 11205.

HUSSMAN, DR. THOMAS ARTHUR, JR, b. Baltimore, Md, Oct. 22, 29; m. 51; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Maryland, 50, M.A, 52, Ph.D, 55. Res. scientist, PSYCHOL, Psychol. Res. Assocs. Inc, 56-58; v.pres. & dir, Los Angeles Div, Matrix Corp, 58-62; sr. res. assoc, Planning Res. Corp, 62-64; MEM. TECH. STAFF, AEROSPACE CORP, 64- Med.Serv.C, 52-56, Lt.(jg). Psychol. Asn; Rocket Soc; Human Factors Soc; Aerospace Med. Asn. Human performance measurement. Publ: Co-auth, Relationship between psychogalvanic activity and pilot performance under simulated instrument flying conditions, Requirements for ancillary information in a proposed tactical air control system & Effects of fatique on certain psychomotor and visual functions, J. Appl. Psychol. Address: Aerospace Corp, 2350 El Segundo Blvd, El Segundo, Calif. 90245.

HUSTON, PROF. JAMES A(LVIN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HUTCHESON, DR. B(ELLENDEN) R(AND), b. Cairo, Ill, July 30, 22; m. 57; c. 1. PSYCHIATRY. B.S, Northwestern, 39, B.M, 42, M.D, 46. Fel, U.S. Pub. Health Serv, Douglas Thom Clin, Boston, Mass, 53-55; dir, South Shore Guid. Center, MASS. DEPT. MENT. HEALTH, 55-60, dir. clin res, 57-58, div. ment. hyg, 58-67, ASST. CMNR. CHILDREN'S SERV, 67-Res. assoc, Boston, 58-61, asst. clin. prof, sch. med, 61-64, lectr, 65-; res. grant, 59-61; assoc, sch. pub. health, Harvard, 59-62, lectr, 62-64, asst. clin. prof, sch. med, 64-; clin. assoc, Mass. Gen. Hosp, 64-; lectr, sch. med, Tufts, 67-; Headstart proj. dir, Off. Econ. Opportunity. Consult, U.S. Air Force, 59-; consult. ed, Community Ment. Health J, 67- Dipl, Am. Bd. Psychiat. U.S.A.A.F, 48-49, Capt. Fel. Psychiat. Asn; fel. Orthopsychiat, Asn; fel. Pub. Health Asn; fel. Acad. Child Psychiat. Child psychiatry; juvenile delinquency; epidemiology of mental illness. Publ: A prognostic classification for juvenile court first offenders based on a follow-up study: a method applicable to the field of mental illness, Nat. Inst. Ment. Health, 8/63; A prognostic (predictive) classification of juvenile court first offenders based on a follow-up study, Brit. J. Criminol, 10/66. Address: 15 Ashburton Place, Boston, Mass. 02108.

HUTCHESON, DR. HAROLD H(OUSTON), b. Richmond, Va, Mar. 28, 12; m; c. 2. BUSINESS ECONOMICS. B.A, Richmond, 33; Ph.D.(econ), Hopkins, 36. Prof. econ. & chmn. dept, Va. Mil. Inst; ECONOMIST, INT. BUS. MACH. WORLD TRADE CORP, 52- Consult, Econ. Coop. Admin, 50-53. U.S.N, 42-46, Lt. Comdr. Econ. Asn; Statist. Asn; Finance Asn; Mkt. Asn; Royal Econ. Soc. Overseas marketing research; economic development; international trade and finance. Publ: Tench Coxe, a study in American economic development; Problems of economic development. Address: 18 Country Club Rd, New Canaan, Conn. 06840.

HUTCHINGS, DR. DONALD E, b. Chicago, Ill, Jan. 9, 34; m. 61; c. 3. PSYCHOLOGY. B.A, Lake Forest Col, 59; M.A, Chicago, 63, Ph.D, 65. Res. scientist, N.Y. PSYCHIAT. INST, 63-65, SR. RES. SCIENTIST, 65- Adj. asst. prof, Columbia, 66-67, instr, col. physicians & surgeons, 66- U.S.C.G, 52-56. Psychol. Asn; N.Y. Acad. Sci. Effects of drugs and altered physiological states during prenatal and postnatal life on structural, physiological and behavioral development. Publ: Early experience and its effects on later behavioral processes in rats. III Effects of infantile handling and body temperature reduction on later emotionality, Trans. N.Y. Acad. Sci, 63; Infantile body temperature loss in rats; effects of duration of cold exposure, rate of heat loss, level of hypothermia, and rewarming on later emotionality, Psychol. Reports, 21: 985-1002. Address: New York Psychiatric Institute, 722 W. 168th St, New York, N.Y. 10032.

HUTCHINS, DR. EDWIN BURNELL, b. Chicago, Ill, Jan. 30, 30; m. 51; c. 6. SOCIAL & EDUCATIONAL PSYCHOLOGY. B.A, Lake Forest Col, 51; M.A, Missouri, 53; Ph.D, Illinois, 58. Asst. psychol, Missouri, 51-53; res. assoc, field res. infantry sch, Psychol. Res. Assoc, 53-54; from asst. to res. assoc, Univ. Illinois, 54-58; res. psychologist, U.S. Govt, 58-59; from res. psychologist to asst. dir. basic res, div. ed, Asn. Am. Med. Cols, 59-67; PROF. PSYCHOL, IOWA STATE, 67- Instr, American Univ, 58-59; vis. asst. prof, Northwestern, 60-65; lectr, Lake Forest Col, 65-66; Iowa State, 66-67; consult, Univ. Pennsylvania, 67- Res. award, Am. Personnel & Guid. Asn, 60. AAAS; Psychol. Asn; Ed. Res. Asn. Small group leadership; interpersonal perception; learning theory; personnel selection; measurement; student affairs. Publ: The AAMC longitudinal study: implications for medical education, 64 & co-auth, Minorities, manpower and medicine, 67, J. Med. Ed; co-auth, Doctor or dropout? A study of medical student attrition, Asn. Am. Med. Cols, 66. Address: Dept. of Psychology, Iowa State University, Ames, Iowa 50010.

HUTCHINS, DR. FRANCIS GILMAN, b. Berea, Ky, Oct. 29, 39. POLITICAL SCIENCE. A.B, Harvard, 60, M.A, 63, Ph.D.(polit. sci), 66. Instr. GOVT, HARVARD, 66-68, ASST. PROF, 68- Polit. Sci. Asn; Asn. Asian Studies. Political development, especially South Asia. Publ: The illusion of permanence, British imperialism in India, Princeton, 67. Address: Dept. of Government, Harvard University, Cambridge, Mass. 02138.

HUTCHINS, PROF. JOHN G(REENWOOD) B(ROWN), b. Cambridge, Mass, Oct. 15, 09. ECONOMICS. B.S, Mass. Inst. Tech, 31; A.M, Harvard, 35, Ph.D, 37. Instr. econ, Rutgers, 37-40; CORNELL, 40-42, asst. prof. 42-45, assoc. prof, 45-46, GRAD. SCH. BUS. & PUB. ADMIN, 46-47, PROF. BUS. HIST. & TRANSPORTATION, 47- Vis. assoc. prof, Harvard, 46. Mem. div. cargo requirements, U.S. War Shipping Admin, D.C, 42-43, asst. dir. Russian area div, 43, dir, 44-45. Econ. Asn; Econ. Hist. Asn. Transportation; U.S. maritime history; business history. Publ: American maritime industries and public policy, 1789-1914, Harvard, 41. Address: School of Business Administration, Cornell University, Ithaca, N.Y. 14850.

HUTCHINSON, DR. BUD R, b. Detroit, Mich, Mar. 22, 21; m. 52; c. 2. ECONOMICS, INDUSTRIAL RELATIONS. B.A, Mich. State, 47; Ph.D, Southern California, 59. Labor economist, bur. labor statist, U.S. Dept. Labor, 51-52; res. & ed. dir, Hawaii Labor Fedn, 52-53; instr. econ, Mich. State, 55-56; asst. prof, Auburn, 56-57; consult, Daniel W. Johnston & Assocs, Calif, 58-59; asst. prof. econ. & indust. rels, San Jose State Col, 59-62; ed. dir, Commun. Workers Am, Wash, D.C, 62-64; legis. aide, Calif. Legis, 64-66; EXEC. SECY, CALIF. STATE COL. COUN, AM. FEDN. TEACHERS, 66- Ford Found. faculty res. fel, 60. U.S.A.A.F, 42-45. Consumer debt problems; labor economics; costs of collectively bargained pre-paid dental plans. Address: 902 Van Auken Circle, Palo Alto, Calif. 94303.

HUTCHINSON, DR. CHARLES E(RNEST), b. Los Angeles, Calif, July 24, 08. SOCIAL SCIENCE. A.B, Southern California, 31, A.M, 33, Ph.D, 41; New Mexico, 34-35. Asst. prof, New Mexico, 38-45; assoc. prof. sociol, Maryland, 45-51; chief human rels. br, RES. & DEVELOP, U.S. DEPT. AIR FORCE, 51-56, CHIEF BEHAV. SCI. DIV, 56- Sociologist, labor rels. div, Off. Inter-Am. Affairs, 45. Sociol. Asn; Psychol. Asn. Foreign social systems analysis; social organizations. Address: Air Force Office of Scientific Research, 1400 Wilson Blvd, Arlington, Va. 22209.

HUTCHINSON, DR. EDMOND CARLTON, b. Rosemark, Tenn, Nov. 23, 13; m. 38; c. 2. ECONOMICS. B.A, Southwestern at Memphis, 36, hon. D.C.L, 63; M.A, Virginia, 37, Ph.D.(econ), 54; Gen. Ed. Bd. fel, Va. Polytech, 37-38. Economist, R.R. Retirement Bd, 38-42; chief procedures & anal. sect, War Prod. Bd, 42-43; prov. dir. gen. finance, Govt. Iran, 44-46; mgr. analyst, Civilian Prod. Admin, 46; Dept. Commerce, 46-47; finance analyst, Off. of Supreme Comdr. Allied Powers, Tokyo, 47-51; assoc. chief monetary affairs staff, Dept. State, 52-53; from area chief int. div. to spec. asst. nat. security & for. econ. affairs, Bur. Budget, 53-58; asst. dep. managing dir. opers, Develop. Loan Fund, 58-60; mgr. financial projs, int. div, Radio Corp. Am, 60-61; asst. adminstr, Bur. Africa & Europe, Agency Int. Develop, 61-66; chmn. exploratory develop. group, Res. Anal. Corp, 67- Lectr, Salzburg Seminar Am. Studies, 67. Econ. Asn. Development of underdeveloped countries. Address: 9619 Hillridge Dr, Kensington, Md. 20795.

HUTCHINSON, PROF. E(DWARD) P(RINCE), b. Auburn, Maine, Jan. 3, 06; m; c. 2. DEMOGRAPHY. A.B, Bowdoin Col, 27; Ph.D.(biol, pub. health), Mass. Inst. Tech, 33. Asst. pub. health, med. & dent. schs, Tufts Col, 27-29; vital statist, sch. pub. health, Harvard, 29-30, instr, 30-32, sociol, 35-40; Soc. Sci. Res. Coun. fel, Stockholm, 33-35; fel. pop, Library Cong, 40-41; sr. statistician, Nat. Resources Planning Bd, 42-43; supvr. gen. res, Immigration & Naturalization Serv, 43-45; from assoc. prof. to PROF. SOCIOL, PENNSYLVANIA, 45- Guggenheim fel, 41-42, 56-57. Ed, Immigration Res. Digest, Am. Immigration & Citizenship Conf. Sociol. Asn; Pop. Asn; Int. Union Sci. Study Pop. Population, especially migration and theory. Publ: Co-auth, Studies of differential fertility in Sweden; auth, Immigrants and their children, 1850 to 1950; The population debate, 67. Address: Dept. of Sociology, University of Pennsylvania, Philadelphia, Pa. 19104.

HUTCHISON, DR. GEORGE KEATING, b. Belfast, Maine, Nov. 20, 32; m. 58; c. 4. COMPUTER & MANAGEMENT SCIENCE. B.S, Maine, 55; M.S, Carnegie Inst, 56; Ph.D.(mgt. sci), Stanford, 64. Teaching asst. mech. drawing & anal. geom, Carnegie Inst, 55-56; design engr, Lockheed Missiles & Space Co, 57-58, eng. opers. analyst, 58, math. analyst, 58-60, sr. math. analyst, 60-62, proj. leader & math. engr, 62-66; ASST. PROF. INDUST. ENG. & DIR. COMPUT. CENTER, TEX. TECH. COL, 66- Res. asst, West. Data Processing Center, Stanford, 59-60. AAAS; Asn. Comput. Mach; Opers. Res. Soc. Am; Inst. Elec. & Electronics Eng; Inst. Mgt. Sci; Brit. Oper. Res. Soc. The use of computers and information processing devices as an extension of man's intellect. Address: Computer Center, Texas Technological College, Lubbock, Tex. 79409.

HUTCHINSON, DR. HARRY D(AVID), b. Uniontown, Pa, Nov. 28, 24; m. 49; c. 3. ECONOMICS. B.A, Michigan, 49, M.A, 55, fel, 54-56, Ph.D, 62. Instr. ECON, Michigan, 56-59; asst. prof, DELAWARE, 59-64, ASSOC. PROF, 65- U.S.A, 43-46. Effect of monetary policy on finances of state and local governments. Publ: Money, banking and the United States economy, Appleton, 67. Address: Dept. of Economics, University of Delaware, Newark, Del. 19711.

HUTCHINSON, PROF. HARRY W(ILLIAM), b. New York, N.Y, Aug. 18, 22; m. 54. CULTURAL ANTHROPOLOGY. A.B, Columbia, 48, Doherty Found. grant, 50, Ph.D.(anthrop), 54. Lectr. anthrop, Columbia, 54; vis. prof, Bahia, 55-56; São Paulo, 57-59, dir. grad. sch. sociol. & polit, 59; vis. asst. prof, Vanderbilt, 59-61; res. fel, Florida, 60-61, assoc. prof. psychiat. & anthrop, 61-66; PROF. ANTHROP, MIAMI (FLA), 66- Fulbright award, 59. U.S.N, 43-46. Fel. AAAS; fel. Anthrop. Asn; fel. Soc. Appl. Anthrop. Community studies; plantation society; family types; culture change; Brazil, Caribbean; ethnopsychology. Publ: Village and plantation life in northeastern Brazil; Field guide to Brazil; Brazil, In: Collier's Encyclopedia. Address: Institute of Inter-American Studies, Center for Advanced International Studies, University of Miami, P.O. Box 8123, Coral Gables, Fla. 33124.

HUTCHINSON, DR. JOHN, b. South Shields, Eng, Jan. 29, 21; nat; m. 50; c. 3. POLITICAL SCIENCE, INDUSTRIAL RELATIONS. B.Sc, London, 50, Ph.D. (labor hist), 63; M.A, California, 52. Exec. officer, Ministry Ed, Eng, 38-50; asst. polit. sci, CALIFORNIA, Los Angeles, 50-52, res. polit. scientist, inst. indust. rels, 53-55, coordinator labor progs. & res. polit. scientist, Berkeley, 55-64, ASSOC. PROF. INDUST. RELS, GRAD. SCH. BUS. ADMIN, LOS ANGELES, 64- Dir. res. Off. Employees Int. Union, 50-53; State Dept. specialist, Viet Nam & India, 66; arbitrator, labor-mgt. rels. Mem. adv. cmt, Nat. Inst. Labor Ed, 60- R.N, 39-45, Sub-Lt. Polit. Sci. Asn. Trade union government and ethics; labor and politics; labor history; comparative labor movements. Publ: Corruption in American trade unions, Polit. Quart; Captain of a mighty host: a note on the retirement of John L. Lewis, Yale Rev; co-auth, Health insurance: group coverage in industry. Address: Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

HUTCHINSON, DR. RONALD R(ALPH), b. Detroit, Mich, July 9, 36; m. 58; c. 4. EXPERIMENTAL PSYCHOLOGY. M.A, Southern Illinois, 60; M.S, Yale, 61, U.S. Pub. Health Serv. fel, 61-62, Ph.D.(exp. psychol), 62. Med. res. assoc. behav, Anna State Hosp, 62-66; asst. prof. PSYCHOL, WESTERN MICHIGAN, 66-67, ASSOC. PROF, 67- Lectr, Southern Illinois, 63-64, asst. prof, 64-66, assoc. prof, 66-68; co-prin. investr, U.S. Navy res. grant, exp. anal. aggression, 67-68; prin. investr, Nat. Sci. Found. res. grant, environ. & physiol. causes of aggression, 67-69. AAAS; Psychol. Asn. Discovery and elaboration of any environmental or physiologic condition which influences behavior in general and abnormal behavior in particular; causes of aggression and its possible reduction. Publ: Co-auth, An automatic method for the study of aggression in squirrel monkeys, 5/66 & A simple histological technique for localizing electrode tracks and lesions within the brain, 5/67, J. Exp. Anal. Behav; Modification of eating and drinking: interactions between chemical agent, deprivation state and site of stimulation, J. Comp. & Physiol. Psychol, 5/67. Address: Dept. of Psychology, Western Michigan University, Kalamazoo, Mich. 49001.

HUTCHISON, S(AMUEL) BLAIR, b. Denver, Colo, July 30, 10; m. 35; c. 3. FOREST ECONOMICS. B.S, Michigan, 34. Forester, Rocky Mt. Forest & Range Exp. Sta, U.S. FOREST SERV, 34-42, forest economist, 46-54, south. forest & range exp. sta, 62-46, INTERMOUNTAIN FOREST & RANGE EXP. STA, 54-61, chief div. forest econ, 61-65, ASST. DIR. RES, 65- Soc. Am. Foresters; Acad. Polit. & Soc. Sci. Marketing; recreation; timber utilization; engineering. Address: Intermountain Forest & Range Experiment Station, U.S. Forest Service, Ogden, Utah 84401.

HUTH, DR. ARNO G(EORGE), b. Berlin, Germany, Apr. 3, 05; nat; m; c. 2. INTERNATIONAL RELATIONS. Ph.D, Berlin, 28; Inst. Int. Studies, Geneva, 40-42. Radio consult, U.S. Legation, Switz, 42-46; mem. faculty, New Sch. Soc. Res, 47-61, chmn. seminars on world affairs, Africa, Asia & West, 52-61; consult, Raytheon Co, Mass, 61-62; EXEC. DIR, INT. STUDY & RES. INST, INC, 63- Fel, Geneva Res. Center, 40; chief prfnl. res. adv, int. radio proj, Columbia, 50; Kaltenborn fel, 54-55; lectr, N.Y. Univ, 55-56; Queens Col.(N.Y), 58; guest lectr, Columbia; Boston; Princeton; Northwestern; Pennsylvania: French Univ. Consult. radio div, UN, 47, human rights div, 48, 51; spec. consult, Pan Am. Broadcasting Co, 52-57; Int. Coop. Admin, 60-61. Asia Soc; Asn. Asian Studies; Soc. Int. Develop; African Studies Asn; Acad. Polit. Sci; Econ. Asn; Int. Studies Asn. Communications: economic an and social development. Publ: La Radiodiffusion, Puissance Mondiale. Gallimard, Paris, 37; Communications and economic development. Int. Conciliation, 1/52; Communications media in tropical Africa. Agency Int. Develop. D.C, 61. Address: 41 Central Park West, New York, N.Y. 10023.

HUTH, PROF. EDWARD A(NDREW), b. Tiffin, Ohio, May 13, 98; m. 26; wid; c. 2. SOCIOLOGY. B.A, Heidelberg, 21; Butler scholar, Columbia, 25-26; A.M, Notre Dame, 28; Ph.D, Western Reserve, 43. Supt. schs, Risingsun, Ohio, 21-24; asst. sociol, Chicago, 24-25; instr. hist, Notre Dame, 26-29, asst. prof. hist. & sociol, 29-32, assoc. prof. hist. & polit. sci, 32-37; SOCIOL, DAYTON, 39-43, PROF, 43-, chmn. dept, 43-65. Mem. cmn. ed. orgn, Nat. Conf. Christians & Jews, Inc, N.Y, 51-64; pres, Nat. Catholic Conf. Family Life, 53-55. Knight of St. Elizabeth, Philippines. Fel. Sociol. Asn. Social disorganization in urban areas; rural-urban social relationships. Publ: Ed, University Dayton self-survey report. Address: Dept. of Sociology, University of Dayton, Dayton, Ohio 45409.

HUTH, DR. MARY J(OSEPHINE), b. South Bend, Ind, Apr. 2, 29. SOCIOLOGY, PSYCHOLOGY. B.S, Dayton, 50; scholar. & M.A, Indiana, 51; fel. & Ph.D. (sociol, psychol), St. Louis, 55. ASSOC. PROF. soc. sci, St. Mary's Col.(Ind), 55-62; SOCIOL, DAYTON, 62- Summers, mem. staff, human rels. workshop, Mex. City Col, 58, consult, Detroit, 59-62. Sociol. Asn. Economics. Publ: Woman: her role in the home, church and community; Evaluation of accomplishments in some crucial areas of in-migrant integration within northern urban communities, Interracial Rev; Survey of rehabilitation centers in 85 cities of the U.S. ranging in population from 100,000 to 200,000. J. Rehab. Address: Dept. of Social Science, University of Dayton, Dayton, Ohio 45409.

HUTHMACHER, DR. J. JOSEPH, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HUTNER, DR. SIMEON, b. New York, N.Y, Sept. 27, 17; m. 43; c. 5. ECONOMICS. A.B, Columbia, 37; M.B.A, N.Y. Univ, 40; M.A, Princeton, 46, Ph.D.(econ), 51. Instr. econ, Smith Col, 45, 46-47; Princeton, 46, 47-48; asst. prof, Kenyon Col, 48-49; invest. adv, Hale Pulsifer, 49-54; partner, Pulsifer & Hutner, Invest. Mgr, 54-57, owner, PULSIFER & HUTNER INC, 57-66, PRES, 66- U.S.A, 41-45, Lt. Econ. Asn. Investments; business cycles; economic theory. Address: 14 Wall St, New York, N.Y. 10005.

HUTSON, DR. JOHN B, Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

HUTSON, W(ILLIE) S(OLOMON), b. Hancock Co, Tenn, Apr. 23, 20; wid; c. 1. AGRICULTURAL ECONOMICS. B.S, Tennessee, 47; M.S, Kentucky, 48; Wisconsin, 48-49; Minnesota, 49-50. Asst. agr. economist, West Virginia, 51-57; agent, U.S. Dept. Agr, 54-57, agr. economist, 57-63; statistician, Bur. Census, U.S. Dept. Commerce, 63-67; ECONOMIST, BUR. LABOR STATIST, U.S. DEPT. LABOR, 67- Res. coordinator, Northeast Regional Land-Grant Univs, 54-57; South. Regional Land-Grant Univs. 57-63. U.S.N.R, 43-46. Econ. Asn; Agr. Econ. Asn; Mkt. Asn; Statist. Asn. Agricultural marketing. Address: Judiciary House, 461 H St. N.W, Washington, D.C. 20001.

HUTT, DR. PAUL J, b. Philadelphia, Pa, Oct. 26, 09; m. 39. PSYCHOLOGY. B.S, Columbia, 48, A.M, 49; Ph.D.(psychol), Duke, 53. Res. assoc, Yerkes Lab. Primate Biol, 52-54; instr. psychol, med. sch, Northwestern, 54-56; ASST. PROF. MATH, Marietta Col, 56-64; HOFSTRA, 64- Lectr, Chicago, 55. AAAS. Brain mechanisms and behavior. Publ: Association cortex of macaca mulatta, Brain. Address: Dept. of Mathematics, Hofstra University, Hempstead, N.Y. 11550.

HUTTER, PROF. HARRY K(ENNEDY), Geog, Geol, see 11th ed, Phys. & Biol. Vols.

HUTTON, PROF. ROBERT F, b. Ky, July 15, 21; m. 48; c. 3. AGRICULTURAL ECONOMICS. B.S, Kentucky, 46, M.S, 48; M.A. & Ph.D.(econ), Harvard, 51. Agr. economist, U.S. Dept. Agr, 49-50; Tenn. Valley Authority, 51-54; asst. prof. AGR. ECON, PA. STATE, 54-55, assoc. prof, 55-58, PROF, 58-, ASST. DIR. AGR. EXP. STA, 68- U.S.A, 41-45. Agr. Econ. Asn. Farm management; research administration. Address: Agricultural Experimental Station, Pennsylvania State University, University Park, Pa. 16802.

HUTTON, PROF. WINFIELD, b. Los Angeles, Calif, Aug. 17, 35; m. 57. ECONOMICS. B.Sc, Ohio State, 56, fel, 56-57, M.B.A, 57, Ph.D.(econ), 59. Asst. econ, Ohio State, 57-58; instr, Col. Wooster, 58-59; consumer economist, Fed. Reserve Bank of Atlanta, 59-60; asst. prof. ECON, sch. indust. mgt, Ga. Inst. Tech, 60-61; Hunter Col, 61-64; ASSOC. PROF, CITY UNIV. NEW YORK, 65- Coun. Consumer Info; Econ. Asn; Asn. Bus. Econ; Statist. Asn; Mkt. Asn; Finance Asn. Performing art economics in Germany and the United States; economics of Eastern European countries; government-business relationships; industry studies; consumer economics; public finance; economic development. Publ: Other loans as a current indicator of consumer credit movements, J. Finance, 3/61; Effects of structure upon profit rates and wage and price movements, Am. J. Econ. & Sociol, 1/65; Theaterfinanz Probleme in den U.S.A, Die Deutsche Buehne, 10/66. Address: 70 Park Terr. E, Apt. 5-D, New York, N.Y. 10034.

HUTZEL, DR. WILLARD JOSEPH, b. Dayton, Ohio, Mar. 19, 37; m. 59; c. 2. POLITICAL SCIENCE. B.A, Bowling Green State, 59; Ph.D.(polit. sci), Maryland, 66. Instr. POLIT. SCI, Maryland, 64-65; Wittenberg, 65-66; ASST. PROF, WRIGHT STATE, 66- Staff consult, Miami Valley Regional Valley Cmn, Ohio, 67- Urban affairs, especially the relationship between taxation and public policy. Publ: Co-auth, Open space for the Miami Valley region, Miami Valley Regional Planning Cmn, 67. Address: Dept. of Political Science, Wright State University, Colonel Glenn Highway, Dayton, Ohio 45431.

HUTZLER, HEINZ M(ANFRED), Econ, Statist, see 10th ed, Soc. & Behav. Vols.

HUYCK, DR. EARL EUGENE, b. Ilion, N.Y, Oct. 30, 22; m. 47; c. 2. SOCIOLOGY, INTERNATIONAL RELATIONS. B.A, Hamilton Col, 46; M.A, Hopkins, 48; Ph.D.(int. rel), American Univ, 56. Asst. to demographer, U.S. Dept. State, D.C, 49-54; analyst, Cent. Intel. Agency, 55-59; prog. anal. officer, Off. Secy, U.S. Dept. Health, Ed. & Welfare, 59-67, ed, Health, Ed. and Welfare Indicators & Health, Ed. and Welfare Trends, 59-67; DEMOGRAPHER, AGENCY INT. DEVELOP. MISSION, COSTA RICA, 67- Asst. prof, Colorado, 58-59; prof. lectr, American Univ, 63-66; Howard, 66-67; lectr, Maryland, 66-67. Consult, White House Conf, 66. Sig.C, U.S.A.A.F, 43-46. Fel. Sociol. Asn; Pop. Asn. Development of socio-economic measures related to health, education, and welfare, and to investments in human resources; demography. Publ: Co-auth, Overseas migration from Europe since World War II, In: Demographic analysis; co-auth, The objectives of government policies on fertility control in eastern Europe, Pop. Studies, 62; auth, White-nonwhite differentials: overview and implications, Demography, 66. Address: USAID to Costa Rica, Dept. of State, Washington, D.C. 20521.

HYATT, DR. ALBERT MARK JOHN, Mod. Mil. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

HYATT, DR. I. RALPH, b. Philadelphia, Pa, Dec. 17, 27; m. 52; c. 2. PSYCHOLOGY. B.A, Yeshiva, 48; M.A, Temple, 49, Ed.D, 57; Bryn Mawr Col, 49-50; Pennsylvania, 50-51. Psychologist, Cedars Nursing Home, 53-55; Munic. Court Phila, 55-58; chief psychologist, State Correctional Instn, Pa, 58-61; ASSOC. PROF. PSYCHOL. & CHMN. DEPT, ST. JOSEPH'S COL.(PA), 61- Nat. Sci. Found. summer res. grant, 67. Med.Serv.C, 51-53, 1st Lt. Psychol. Asn. Stress and frustration; personality and clinical psychology. Publ: Stone walls do not a prison make, Fed. Probtn; On Lindner and his cause, Echo Mag; Admissions tests to technical institutes, J. Eng. Ed, 64. Address: 245 Wiltshire Rd, Wynnewood, Pa. 19151.

HYDE, DR. McFREEMAN, b. Marshfield, Mo, Aug. 7, 92; m. 19; c. 4. PSYCHOLOGY, COUNSELING. A.B, William Jewell Col, 18; M.A, Missouri, 27; Ph.D.(ed. psychol, sociol), Kansas, 39. Supt. pub. schs, Mo, 20-28; prin. jr. high, Kans, 28-34; dir. adult ed, State Dept. Pub. Instr, 34-39; head dept. ed, Friends, 39-41; personnel technician, Kansas State, 41-45; CHIEF VOC-COUNSELING, U.S. VET. ADMIN. CENTER, WADSWORTH, 45- Lectr, Kansas, 56-59; summers, prof, Kans. State Teachers Col, 30, Southwest Mo. State Col, 32, Kans. State Col, 38. Counseling Psychologist, Vet. Admin. Hosp, Chillicothe, Ohio, 63- Sig.C, U.S.A, 18-19. Psychol. Asn; Personnel & Guid. Asn. Projective tests in vocational counseling. Publ: Attitude of junior high pupils toward ability grouping, Sch. Rev; Junior high school teachers evaluate ability grouping, Education; Home room as a socializing agency, Clearing House. Address: 1613 Buchanan St, Topeka, Kans. 66604.

HYDE, DEAN ROY E, b. Tangipahoa Parish, La, Apr. 30, 02. RURAL SOCIOLOGY. A.B, Northwest. La. State Col, 27; A.M, La. State, 32, Ph.D, 42; Harvard, 35-36. Assoc. prof. sociol, Southeast. La. Col, 32-42; from asst. prof. to assoc. prof, La. State, 42-46; prof. soc. sci, SOUTHEAST. LA. COL, 46-67, head dept, 46-58, PROF. SOCIOL, 67-, EMER. DEAN LIBERAL ARTS, 67-, dean, 53-67. Sociol. Asn. Sociology of the South; rural social stratification and race relations; public opinion. Publ: Selected sample of attitudes of Louisiana State University students toward the Negro, Soc. Forces. Address: Dept. of Sociology, Southeastern Louisiana College, College Station, P.O. Box 894, Hammond, La. 70401.

HYER, PROF. EDGAR A, b. Lewiston, Utah, July 12, 16; m. 40; c. 2. AGRICULTURAL ECONOMICS. B.S, Utah State Col, 39, M.S, 42; Ph.D.(farm mgt), Cornell, 48. Field man & auditor, agr. adj. admin, U.S. Dept. Agr, Utah, 39-40, jr. forest economist, forest serv, 41; asst. prof. FARM MGT, Oregon State Col, 48-51; assoc. prof, CALIF. STATE POLYTECH. COL, 51-56, PROF. & HEAD DEPT, 56- Consult. large scale farms, Calif. & Ariz, 52- Sig.C, U.S.A, 43-46, Sgt. Agr. Econ. Asn; Soc. Farm Mgr. & Rural Appraisers. Farm management; automatic data processing applied to farming. Publ: Co-auth, Economics of grass seed production, Bull 484, 9/50; Economic study of improved pastures, Bull 520, 8/52, Oregon State Agr. Exp. Sta; auth, Government renting of entire farms versus buying them as a solution to the farm problem, J. Farm Econ, 8/58. Address: Farm Management Dept, California State Polytechnic College, San Luis Obispo, Calif. 93401.

HYER, PROF. JUNE, b. Clarksburg, W.Va, June 12, 20. GEOGRAPHY. B.A. & B.S, Tex. State Col. Women, 41, M.A, 42; Ph.D.(hist. of ed. & hist), Texas, 46. Assoc. prof. soc. sci. & ed, HOUSTON, 47-51, PROF, 51-55, ed. found. & polit. sci, 55-66, ED. FOUND. & SPEC. AREAS, 66-, CHMN. DEPTS. ED. FOUND. & GEOG, 67-, chmn. dept. gen. soc. sci, 51-54, mem. grad. faculty. Univ. Women's grant, Europe, 46-47; Nat. Defense Ed. Act fel. Intensive Spanish for Latin Americanists, California, Los Angeles, 63; assoc. dir. & dir. res, Gov. Cmt.Ed. Beyond High Sch, Tex, 64; dir. develop. & prod. tech. & basis ed. progs, Tex. Ed. Found. Consult, sch. dists, Tex. & La, 58-; Northwest. La. Col, 61. Mem, Gov. Cmt. Pub. Sch. Ed, Tex, 65-69. Intellectual and cultural history; cultural geography; comparative education. Publ: Education: Texas' resource for tomorrow, Gov. Cmt. Ed. Beyond High Sch, 64; Education: the Southern hope, South. Asn. Cols. & Schs, 66; Influence of the German occupation on the universities of Belgium and the Netherlands, Ed.Forum. Address: Depts. of Educational Foundations & Geography, University of Houston, Cullen Blvd, Houston, Tex. 77004.

HYINK, DR. BERNARD L, b. Hawarden, Iowa, Apr. 5, 13. POLITICAL SCIENCE. A.B, Redlands, 35; A.M, California, 36; Ph.D, Southern California, 43. Prof. govt. & dir. soc. sci, Redlands, 43-48; ed. counsr, Nat. Inst. Pub. Affairs, 48-49; prof. govt. & dean students, Southern California, 49-60; V.PRES, CALIF. STATE COL. FULLERTON, 62- Mem, Calif. State Constitutional Revision Cmn, 63-; Calif. Fulbright Cmn, 66- National youth administration. Publ: Politics and government in California; co-auth, Government in golden state, Crowell, 67; The California legislature looks at the state constitution, West. Polit. Quart. Address: California State College at Fullerton, 800 N. State College Blvd, Fullerton, Calif. 92631.

HYMAN, DR. AARON, b. New York, N.Y, Jan. 21, 16; m. 51; c. 2. PSYCHOLOGY. B.S, City Col. New York, 37, M.S, 38; B.S, Columbia, 48, fel, 48-49, A.M, 51, Ph.D.(psychol), 59. Lectr. optom, Columbia, 49-51, assoc, 51-56, lectr. exp. psychol, 51-52, res. psychologist, U.S. Air Force Aerospace Med. Lab, Ohio, 56-63; SECT. HEAD HUMAN FACTORS GROUP, SPERRY GYROSCOPE CO, 63- Mem. cmt. vision, Armed Forces-Nat. Acad. Sci-Nat. Res. Coun, 59- U.S.A.A.F, 42-46, Capt. AAAS; Psychol. Asn; Optical Soc; Human Factors Soc. Physics; experimental psychology; perception; psychophysics of vision; physiologic optics; Pulfrich stereophenomenon; critical fusion frequency, flicker photometry. Publ: Potential uses of alternate binocular presentation in studies of vision and as an indicator of physiological stress; An apparatus for determining critical fusion frequencies and other psychological functions in vision; Foveal flicker-fusion frequency for interrupted light superposed on steady light. Address: Human Factors Group, Sperry Gyroscope Co, Great Neck, N.Y. 11020.

HYMAN, DR. ARNOLD, b. Brooklyn, N.Y, Mar. 15, 31; m. 66; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Brooklyn Col, 52, M.A, 53; M.S, City Col. New York, 62; Ph.D.(exp. psychol), Cincinnati, 66. Teacher, mentally retarded children, pub. schs, N.Y, 53-57; technician, Blocked Iron Corp. Am, 57-58; res. asst, Cincinnati, 61-63; res. worker behav, col. physicians & surgeons, Columbia, 63-66, res. assoc, 66-67; RES. SCIENTIST, CREEDMOOR STATE HOSP, 67- Instr, Kentucky, 63; lectr, Hunter Col, 65-; instr, Adelphi, 68- Consult. to supt, Longview State Hosp, Cincinnati, 63. Psychol. Asn. Avoidance conditioning; aversive control of behavior; operant conditioning techniques; maintenance and management of primates. Publ: Co-auth, Temporal and shock intensity parameters of free operant discriminated avoidance behavior, 64 & Free operant discriminated avoidance behavior: latency as a function of RS_1 and S_1S_2 intervals, 66, Am. Psychologist; auth, Two temporal parameters of free operant discriminated avoidance behavior in the rhesus monkey, J. Exp. Anal. Behav, in press. Address: Creedmoor Institute, Station 60, Queens Village, N.Y. 11427.

HYMAN, PROF. HERBERT H(IRAM), b. New York, N.Y, Mar. 3, 18; m. 45; c. 3. SOCIOLOGY. A.B, Columbia, 39, A.M, 40, Ph.D.(soc. psychol), 42. Analyst. soc. sci, prog. surv. div, U.S. Dept. Agr, 42; pub. opinion, Off. War Intel, 42-44; asst. dir. field surv, morale div, U.S. Strategic Bomb Surv, Germany, 44-45; asst. prof. psychol, Brooklyn Col, 45-47; res. assoc, nat. opinion res. center, Chicago, 47-57; asst. prof. SOCIOL, COLUMBIA, 51-53, assoc. prof, 53-56, PROF, 56-, ASSOC. DIR. BUR. APPL. SOC. RES, 58-, chmn. dept. sociol, 65-68. Vis. lectr, California, Berkeley, 50; Fulbright vis. prof, Oslo, 50-51; Ford Found. spec. grant, 52; Guggenheim fel. & vis. prof, Ankara, 57-58; prog. dir, UN Res. Inst. Soc. Develop, Geneva, 64-65. Consult. sociologist, 47-55. Chmn. cmt. comp. sociol. res, Soc. Sci. Res. Coun, 67- Sociol. Asn; Psychol. Asn; Asn. Pub. Opinion Res.(v.pres, 48-49, pres, 59-60); Soc. Psychol. Study Social Issues. Survey methodology; public opinion and communication; reference group theory. Publ: Survey design and analysis; Interviewing in social research; Political socialization. Address: Dept. of Sociology, Columbia University, New York, N.Y. 10027.

HYMAN, DR. MARTIN DAVID, b. Brooklyn, N.Y, Feb. 2, 34; m. 59. SOCIOLOGY. A.B, Princeton, 55; Root-Tilden fel, N.Y. Univ, 55-56; M.A, Columbia, 58, Ph.D.(sociol), 64. Res. asst. sociol, Bur. Appl. Soc. Res, 56-59; human factors specialist, Syst. Develop. Corp, 59-61, sr. human factors specialist, 61-62; instr. sociol, Rutgers, 62-64, asst. prof, 64-65; U.S. Pub. Health Serv. fel, MED. COL, CORNELL, 65-66, res. assoc, 66-67, ASST. PROF. SOCIOL. IN MED, 67- Lectr, sch. gen. studies, Columbia, 59. Consult, City of Englewood, N.J, 58; sociol. resources for sec. schs. proj, Am. Sociol. Asn, 67- AAAS; Sociol. Asn; Pub. Health Asn; Asn. Pub. Opinion Res; Soc. Study Social Probs. Medical sociology; research methodology; social stratification. Publ: The uses of sociology in medicine, In: The uses of sociology, Basic Books, 67; Determining the effects of status inconsistency, Pub. Opinion Quart, spring 66; The unpleasant consequences of rank

inconsistency: suggestions for a reorientation of theory and research, Sociol. Quart, 67. Address: Medical College, Cornell University, 1300 York Ave, New York, N.Y. 10021.

HYMAN, PROF. RAY, b. Chelsea, Mass, June 23, 28; m. 56; c. 1. PSYCHOLOGY. A.B, Boston, 50; M.A, Hopkins, 52, Ph.D.(psychol), 53. Asst. prof. soc. psychol, Harvard, 53-58; consult. behav. res, Gen. Elec. Co, 58-61; assoc. prof. PSYCHOL, OREGON, 61-64, PROF, 64- Fulbright-Hays researcher, Inst. Psychol, Bologna, Italy, 67-68. Psychol. Asn. Communication theory; psychology of deception; creative thinking. Publ: Co-auth, Waterwitching U.S.A; auth, The nature of psychological inquiry, Prentice-Hall, 64; co-auth, Judgments of similarity and spatial models, Perception & Psychophys, 67. Address: Dept. of Psychology, University of Oregon, Eugene, Ore. 97403.

HYMAN, DR. SIDNEY R(OBERT), b. Pittsburgh, Pa, Apr. 16, 28; m. 50; c. 4. PSYCHOLOGY. A.B, Pittsburgh, 50, M.S, 52, Ph.D.(psychol), 54. Clin. psychol. intern, Fitzsimons Army Hosp, 52-53; clin. psychologist, U.S. disciplinary barracks, Ft. Leavenworth, Kans, 54-56, chief clin. psychologist, 55-56; U.S. Army Hosp. & Ment. Hyg. Consult. Serv, Ft. Hood, Tex, 56-57; U.S. Pub. Health Serv. fel. clin. psychol, Judge Baker Guid. Center, Boston, Mass, 57-58; chief clin. psychologist, S.W. Suburban Ment. Health Clin, La Grange, Ill, 58-61; CHIEF PSYCHOLOGIST, Child Guid. Clin, SPRINGFIELD, 61-64; CHILDREN'S STUDY HOME, 64-, consult, 61-64. Consult, Lyons Township High Sch, La Grange, Ill, 59-60; Hampden Dist. Ment. Health Clin, 61-; Westfield Area Child Guid. Center, 63-64; child guid. center, Univ. Massachusetts, 64-; Dist. Court of Springfield, 64-; Springfield Pub. Schs, 66- Private practice, 58- U.S.A, 52-57, 1st Lt. Psychol. Asn; Orthopsychiat. Asn; Soc. Proj. Tech. & Personality Assessment. Psychodiagnostic testing; child psychotherapy; personality theory. Publ: Effect of a pre-test on the magnitude of post-test scores in a study involving the experimental modification of attitudes; Development of criteria of research competence in psychology and their prediction from certain intellectual and achievement measures; Miller Analogies Test and University of Pittsburgh Ph.D.'s in psychology. Address: 41 Bel-Air Dr, Longmeadow, Mass. 01106.

HYMANS, DR. SAUL HAROLD, b. Boston, Mass, Aug. 27, 37; m. 58; c. 3. ECONOMICS. A.B, Harvard, 59; M.A, California, Berkeley, 62, Ph.D. (econ), 64. Acting instr. ECON, California, Berkeley, 62-63; asst. prof, MICHIGAN, 64-67, ASSOC. PROF, 67- Rackham faculty res. fel, 66-67; sr. staff economist, President's Coun. Econ. Adv, D.C, 67-68. Econ. Asn; Economet. Soc. Theory of the firm; econometric theory and application of econometrics to measurement of production functions. Publ: Probability theory with applications to econometrics and decision-making, Prentice-Hall, 67; The price-taker: uncertainty, utility, and the supply function, Int. Econ. Rev, 9/66; Simultaneous confidence intervals in econometric forecasting, Econometrica, 1/68. Address: Dept. of Economics, University of Michigan, Ann Arbor, Mich. 48104.

HYMES, PROF. DELL H(ATHAWAY), b. Portland, Ore, June 7, 27; m. 54; c. 3. ANTHROPOLOGICAL LINGUISTICS. B.A, Reed Col, 50; M.A, Indiana, 53, Ph.D.(ling), 55. Instr. soc. anthrop, Harvard, 55-57, asst. prof, 57-59, soc. anthrop. & ling, 59-60; assoc. prof. anthrop. & ling, California, Berkeley, 60-64, PROF. ANTHROP, 64-65; PENNSYLVANIA, 65- Fel, Center Adv. Study Behav. Sci, 57-58; Brumbaugh lectr, Pennsylvania, 60; dir, Soc. Sci. Res. Coun, 65-67; fel, Clare Hall, Cambridge Univ, 68-69. Consult, Merriam-Webster Co, 57- U.S.A, 45-47. Fel. Anthrop. Asn; Ling. Soc. North American Indian languages and cultures; integration of anthropology and linguistics; ethnography of communication. Publ: Ed, Language in culture and society, Harper, 64; The use of computers in anthropology, 65 & Studies in Southwestern ethnolinguistics, 67, Mouton. Address: Dept. of Anthropology, University of Pennsylvania, Philadelphia, Pa. 19104.

HYNAM, DR. C.A.S, b. Barbados, B.W.I, June 24, 09; Can. citizen; m. 33; c. 1. SOCIOLOGY. Dipl, Imp. Col. Trop. Agr, Trinidad, 30; M.S, Cornell, 59, Ph.D.(rural sociol), 64. Headmaster, Community Sch, St. Vincent, B.W.I, 33-35; govt. agriculturist, Netherlands Overseas Serv, Windward Islands, 35-41; from agr. asst. to chief agr. exten. officer, Brit. Overseas Serv, Antigua, Barbados, Trinidad & Brit. Honduras, 41-58; asst. prof. SOCIOL, Muhlenberg Col, 61-62; ALBERTA, 62-67; ASSOC. PROF, 67- Am. Sociol. Asn; Rural Sociol. Soc; Can. Sociol. & Anthrop. Asn. Tropical agriculture; extension education and community development; ethnic and minority groups; values and belief systems. Publ: Agriculture in the Dutch Windward Islands, Trop. Agr, 41; co-auth, Why Haiti?, New South, 1/65; auth, The dysfunctionality of unrequited giving, Human Orgn, spring 66. Address: Dept. of Sociology, University of Alberta, Edmonton, Alta, Can.

HYNEMAN, PROF. CHARLES S, b. Gibson Co, Ind, May 5, 00. GOVERNMENT, POLITICAL SCIENCE. A.B, Indiana, 23, A.M, 25; Ph.D, Illinois, 29; hon. D.H.L, Ohio Northern, 60. Instr, Syracuse, 28-30; asst. prof. Illinois, 30-37; prof. govt. & dir. bur. govt. res, La. State, 37-42; prof. govt, Northwestern, 47-56, chmn. dept; PROF. GOVT, INDIANA, 56- Admin. analyst, U.S. Bur. Budget, 42-43; chief mil. govt. training br, Off. Provost Marshall Gen, U.S. War Dept, 43-44; dir. For. Broadcast Monitoring Serv, 44-45; asst. to chmn. & exec. officer, Fed. Commun. Cmn, 45-47; mem. bd. dirs, Soc. Sci. Res. Coun, 45-47; mem. div. behav. sci, Nat. Res. Coun, 63-65. Polit. Sci. Asn.(pres, 61-62). American politics; legislation; public administration. Publ: Bureaucracy in a democracy, Harper & Brothers, 50; The Supreme Court on Trial, 63 & Popular government in America, 68, Atherton. Address: Dept. of Government, Indiana University, Bloomington, Ind. 47405.

HYRE, FRENCH M(ARION), b. Frenchton, W.Va, Mar. 31, 02; m. 32; c. 3. AGRICULTURAL ECONOMICS. B.S, West Virginia, 24; M.S, Cornell, 32. Asst. prof, R.I. State Col, 32-34; economist, agr. adjust. admin, U.S. DEPT. AGR, 34-35, Farm Credit Admin, 36-41, chief ins. sect, 43-52, farm serv. br, FARMER COOP. SERV, 53-57, RES. ECONOMIST, INT. DIV, 57- Mem. U.S. Dept. Agr. study team, Senegal, 65 & Niger, 66. Secy, Nat. Cmt. Farm Supplies, 42-43. Publ: Handbook of agricultural cooperation; Coops in Indiana; Factors affecting growth of mutual insurance in North Carolina, Farmer Coop. Serv, U.S. Dept. Agr, 62. Address: International Division, Farmer Cooperative Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

HYSON, DR. CHARLES D(AVID), b. Hampstead, Md, Dec. 29, 15; m. 46; c. 3. ECONOMICS. A.B, St. John's Col.(Md), 37; M.S, Maryland, 39; M.A. & Ph.D, Harvard, 43. Agr. economist, Farm Credit Admin, 39-40; Surplus Mkt. Admin, D.C, 40-41; from regional economist to chief prices & cost of living br, U.S. Bur. Labor Statist, 44-46; instr. econ, Harvard, 46-48, assoc. dir, mkt. res. prog, 48-49; asst. econ. cmnr, spec. mission, Econ. Coop. Admin, Norway, 49-50, trade specialist, Paris, 50; spec. asst. to chief mission, Econ. Coop. Admin. & Mutual Security Agency, Lisbon, 50-52; dep. dir, U.S. opers. mission, Mutual Security Agency, For. Opers. Admin. & Int. Coop. Admin, Portugal, 52-55; spec. rep. to Portugal, Int. Coop. Admin, 55-57; chief, West. European Div, 57-59, European Div, 59-60; mem, Nat. War Col, 60-61; dept. asst. dir. exec. staffing, AGENCY INT. DEVELOP, 61-62, adv. econ. affairs, Off. Mat. Resources, 62-63, SPEC. ASST. ECON. & TRADE, U.S. DEPT. STATE, 63-, DEP. NAT. EXPORT EXPANSION COORDINATOR & DEP. EXEC. DIR. CABINET CMT. EXPORT EXPANSION, 64- From resident tutor, Dunster House to sr. tutor, Adams House, Harvard, 42-49, resident consult, Grad. Sch. Pub. Admin, 43-49; indust. economist, Fed. Reserve Bank Boston, 46-48; counsr, Am. Embassy, Lisbon, 55-57. Mem. int. secretariat & econ. adv, Int. Conf. Human Skills in Decade of Develop, San Juan, P.R, 62; steering group, UN Conf. Trade & Develop, Geneva, 63-64; trade cmt, White House Conf. Int. Coop, 65. Meritorious serv. award, For. Opers. Admin; Order of Merit, Repub. Portugal, 66. Econ. Asn; Agr. Econ. Asn; Acad. Polit. & Soc. Sci; fel. Royal Econ. Soc. International trade, investment and monetary affairs; agricultural policy; problems of economic development and capital formation. Publ: New England's economic prospects & Impact of foreign aid on U.S. exports, Harvard Bus. Rev, 1-2/68; Economic law of market areas, Quart. J. Econ. Address: 7407 Honeywell Lane, Bethesda, Md. 20014.

I

IANNI, PROF. FRANCIS A(NTHONY) J(AMES), b. Wilmington, Del, Mar. 29, 27; m. 47; c. 3. SOCIAL ANTHROPOLOGY. B.S, Pa. State, 49, M.A, 50, fel. & Ph.D.(sociol, anthrop), 52. Instr. anthrop. & psychol, Russell Sage Col, 52-55, assoc. prof, 55-61; dir. coop. res. prog, U.S. Dept. Health, Ed. & Welfare, 61-64; assoc. cmnr. res, U.S. Off. Ed, 64-66; PROF. & DIR. HORACE MANN-LINCOLN INST, COLUMBIA, 66- Res. scientist, State of N.Y, 54; vis. asst. prof, Yale, 56-57; vis. prof, Univ. Col. Addis Ababa, Ethiopia; Fulbright prof, Florence, 67. Consult, Gen. Learning Corp, 66- U.S.N.R, 43-46, Lt. Comdr. Fel. Anthrop. Asn; Soc. Appl. Anthrop; Sociol. Asn; Psychol. Asn. Acculturation; culture and personality; social anthropology and education. Publ: Co-auth, American social legislation & Culture system and behavior, Sci. Res. Assocs, 67. Address: Horace Mann-Lincoln Institute, Columbia University, New York, N.Y. 10027.

IATRIDES, DR. JOHN ORESTES, b. Salonica, Greece, Oct. 30, 32; U.S. citizen; m. 63. INTERNATIONAL RELATIONS. B.A, Ohio Wesleyan, 53; M.A, Michigan, 54; M.S.S, Inst. Soc. Studies, Netherlands, 60; Ph.D.(int. rels), Clark, 62. Mem. press & info. staff, Off. Prime Minister, Greece, 56-58; ASSOC. PROF. INT. RELS, SOUTHERN CONN. STATE COL, 62-, CHMN. DEPT; POLIT. SCI, 66- Lectr. Russian hist, Clark, 67- C.Eng, Greek Army, 55-56, 2nd Lt. Int. Asn. Southeast European Studies. Origins and diplomacy of the cold war; causes and consequences of the Truman doctrine; Balkan politics. Publ: Balkan triangle, Mouton, The Hague, 68; Cyprus: anatomy of a crisis, Soc. Sci, 10/67; NATO: sentry without cause, Conn. Rev, 10/67. Address: Dept. Political Science, Southern Connecticut State College, 501 Crescent St, New Haven, Conn. 06515.

IBELE, PROF. OSCAR H, b. Cleveland, Ohio, Feb. 5, 17; m. 61. POLITICAL SCIENCE, GEOGRAPHY. B.A, Ohio, 41; Western Reserve, 42; Wisconsin, 43; Ph.D, Ohio State, 46. PROF. POLIT. SCI, KENT STATE, 46- George Washington Medal, Freedoms Found, 61. Polit. Sci. Asn. Comparative government in Canada, especially Newfoundland, Ontario and Alberta. Publ: Introduction to political science, Am. Press, 64; co-auth, British police administration, 65 & Bibliography of police science, public safety and criminology, 67, Thomas Printing & Pub. Address: 1152 E. Garfield Rd, Aurora, Ohio 44202.

IBISON, DR. RICHARD A(RTHUR), b. Indianapolis, Ind, Nov. 23, 15; m. 49; c. 2. PSYCHOLOGY. B.A, Ohio State, 38, M.A, 39; B.S, Youngstown Col, 40; Ph.D.(ed. psychol), Indiana, 51; field study anthrop, Merida, Yucatan, Mex, summer 66. Tech. asst, physics div, Battelle Mem. Inst, 45-46; adj. prof. psychol, South Carolina, 46-48; asst. prof, Tex. Col. Arts & Indust, 48-49; head appl. res. sect, Navy Electronics Lab, 51-52; br. chief gen. staff, Southwest. Signal Corps Training Center, 52-53, chief civilian, Signal Corps Unit Surv. Agency, 53-54, Signal Corps Training Agency, 54-56; systs. engr, aircraft prod. dept, Gen. Elec. Co, 56-57, staff consult. human factors eng, light mil. electronics dept, 57-60; prin. eng. scientist, Electronic Commun, Inc, 60-62; group chief opers. res. & systs. anal, Northrop Corp, 62-63; asst. sect. chief, systs. support dept, Bell Aerosysts. Corp, 63-64; chief systs. design criteria, Hayes Int. Corp, 64-67; SR. SCIENTIST, HUMRRO & PROF. LECTR. PSYCHOL, GEORGE WASHINGTON, 67- Chmn. ed. cmt, Am. Astronaut. Soc, 67- Sr. mem. Astronaut. Asn; assoc. fel. Inst. Aeronaut. & Astronaut; sr. mem. Inst. Elec. & Electronics Eng; Human Factors Soc; Opers. Res. Soc. Training programs, evaluation and research; maintainability engineering; human factors engineering; operations research and systems analysis; long-range technical planning. Address: 720 W. View Terr, Alexandria, Va. 22301.

IBRAHIM, DR. AZMY ISHAK, b. Sakha, U.A.R, June 4, 33. SOCIOLOGY. B.A, Alexandria, 55; Ph.D.(sociol), Colorado, 64. Adminstr, Univ. Alexandria, 56-59; instr. SOCIOL, Asute Inst. Ed, 59-60; ASST. PROF, Calif. State Col. Fullerton, 64-66; SAN JOSE STATE COL, 66- Sociol. Asn. Rate of success after release of delinquents; process of devience, especially the hippies and the homosexuals. Publ: Disorganization in society, but not social disorganization, Am. Sociologist, 2/68; Analyses of the problem of sex in men's prisons, Crime & Delinquency, (in press). Address: Dept. of Sociology, San Jose State College, San Jose, Calif. 95114.

IBSEN, DR. CHARLES ARTHUR, b. Holdgrege, Nebr, Aug. 20, 34; m. 56; c. 3. SOCIOLOGY. B.A, Colorado, 64; M.S, Colorado State, 65, Ph.D.(so-

ciol), 68. Instr. SOCIOL, Colorado State, 66-67; ASST. PROF, VA. POLYTECH, 67- Tech. adv, Brazilian Rural Indust. Develop. Prog, summer 65. Sociol. Asn; Nat. Coun. Family Rels. Sociology of development; sociology of family; social change. Publ: The married college student: a problem in role congruence, Family Life Coordinator, 1-4/67; co-auth, Expressed family needs, J. Coop. Exten, summer 67. Address: Dept. of Sociology, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

IDEN, DR. GEORGE ROBERT, b. Chillicothe, Ohio, Feb. 22, 39; m. 66. ECONOMICS. B.A, Ohio Wesleyan, 61; Woodrow Wilson fel, Harvard, 61-62, Nat. Sci. Found. fel, 62-64, M.A, 63, Ph.D.(econ), 66. Economist, U.S. Dept. Commerce, 64-65; labor economist, U.S. Dept. Labor, 65-66; STAFF ECONOMIST, JOINT ECON. CMT, U.S. CONG, 66- Lectr, George Washington, 66-67. Econ. Asn. Human resources; macroeconomics; the determinants of unemployment; federal programs for the development of human resources. Publ: Productivity, prices and incomes, Joint Econ. Cmt, 67; Industrial growth in areas of chronic unemployment, Monthly Labor Rev, 5/66; Unemployment classification of major labor areas, 1950-65, J. Human Resources, summer 67. Address: Joint Economic Committee, U.S. Congress, New Senate Office Building, Room G133, Washington, D.C. 20510.

IDLE, DR. DUNNING, b. Lowell, Ind, Jan. 6, 05; m. 26; c. 1. POLITICAL SCIENCE. B.A, Michigan, 25, M.A, 26; Ph.D.(hist, int. law), Illinois, 46. Instr. hist. & govt, Muskegon Jr. Col, 26-30; from instr. to assoc. prof. hist, Gettysburg Col, 31-49; for. serv. reserve officer, Djakarta, Medan & Taipei, 49-51; vis. prof. int. rels, Miami (Fla), 52-53; asst. prof. govt, Univ. Maryland Overseas Prog, Labrador & Newf, 54; res. assoc, Human Rels. Area Files, Inc, Yale, 54-55; res. dir, off. chief psychol. warfare, U.S. Dept. Army, 55-56; PROF. POLIT. SCI. & HEAD DEPT, WEST. COL. WOMEN, 56- Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Acad. Polit. Sci. International and intercultural relations; area studies in East and South Asia. Address: Dept. of Political Science, Western College for Women, Oxford, Ohio 45056.

IGA, PROF. MAMORU, b. Zentsuji, Japan, Feb. 9, 16; m. 51; c. 1. SOCIOLOGY, ANTHROPOLOGY. B.A, Kwansei Gakuin Univ, Japan, 46; M.A, Brigham Young, 52; Ph.D.(sociol), Utah, 55; Harvard, 57-58; Instr. Eng, col. lit, Kwansei Gakuin Univ, 46-49; researcher, Community Welfare Coun. Salt Lake County, 56-57; asst. prof. SOCIOL, Lycoming Col, 58-59; SAN FERNANDO VALLEY STATE COL, 59-62, assoc. prof, 62-66, PROF, 66- Consult, Suicide Prev. Center, Los Angeles, 60- Sociol. Asn. Suicide. Publ: Cultural factors in suicide of Japanese youth with focus on personality, Sociol. & Soc. Res, 10/61; Relation of suicide attempt and social structure in Kamakura, Japan, Int. J. Soc. Psychiat, summer 66; co-auth, Suicide attempts of Japanese youth and Durkheim's concept of anomie, Human Orgn, spring-summer 67. Address: Dept. of Sociology, San Fernando Valley State College, 18111 Nordhoff St, Northridge, Calif. 91324.

IGE, PROF. THOMAS H, b. Waipahu, Hawaii, July 20, 16; m; c. 2. ECONOMICS. B.A, Hawaii, 40; M.A, Wisconsin, 42, Ph.D.(econ), 50. From instr. to assoc. prof, Minnesota, Duluth, 47-52; from assoc. prof. to PROF. ECON, HAWAII, 52- Economist, Wage Stabilization Bd, 52-53. Econ. Asn; Indust. Rels. Res. Asn. Industrial relations; wages and working conditions; labor legislation. Publ: Wages and working conditions in Hawaii, Monthly Labor Rev; Unemployment in Hawaii, 1946-1956. Address: Dept. of Economics, University of Hawaii, Honolulu, Hawaii 96822.

IGLITZIN, DR. LYNNE B, b. New York, N.Y, Nov. 7, 31; m. 53; c. 3. POLITICAL SCIENCE. B.A, Barnard Col, Columbia, 53; M.A, Minnesota, 57; Ph.D.(polit. sci), Bryn Mawr Col, 66. INSTR. govt, Beaver Col, 65-66; POLIT. SCI, BELLEVUE COMMUNITY COL, 66- Lectr, Washington (Seattle), 68. Polit. Sci. Asn. The function of violence in the American democracy. Address: 6536 47th Ave. N.E, Seattle, Wash. 98115.

IGO, DONALD JAMES, b. Plymouth, Mass, June 28, 26; m. 51; c. 4. ECONOMICS. A.B, Harvard, 50; M.A, American Univ, 58. Economist, interindust. anal. br, U.S. Bur. Mines, 52-53; res. analyst econ, U.S. Cent. Intel. Agency, 54; res. assoc, bur. bus. & econ. res, Maryland, 54-55; economist, Corp. Econ. & Indust. Res, 55-57; syst. res. analyst, Corvey Div, Melpar, Inc, 57-58; economist, Anal. Servs, Inc, 58-61; economist & cost engr, cost anal. div, Rand Corp, 61-62; mem. tech staff, Res. Anal. Corp, Va, 62-68, head econ. impact group, 66-68; ECONOMIST, OFF. HIGH SPEED GROUND TRANSPORTATION, U.S. DEPT. TRANSPORTATION, 68- U.S.N, 46-48. Econ. Asn. Military resource allocation and cost analysis; economic and political factors influencing national strategy; interindustry economics; industry studies. Publ: Study of the demand for columbium-tatalum; auth, Industrial classification and economic impact analysis, 66 and co-auth, Economic impact analysis: a military procurement final demand vector, Res. Anal. Corp, Vols. I & II, 67. Address: 6209 Cloud Dr, Springfield, Va. 22150.

IHNEN, DR. LOREN A(LBERT), b. Golden, Ill, Feb. 6, 31; m. 53; c. 2. ECONOMICS. B.S, Illinois, 53, M.S, 54; Ph.D.(econ), Iowa State, 62. Asst. prof. ECON, N.C. STATE, 60-65, ASSOC. PROF, 65- U.S.A, 54-56. Agr. Econ. Asn; Econ. Asn. Economics of investment in human capital, especially education; economics of agricultural adjustment and change. Publ: Co-auth, Costs and returns for two years of postsecondary technical schooling: a pilot study, J. Polit. Econ, 12/67. Address: Dept. of Economics, North Carolina State University, Raleigh, N.C. 27607.

IHRIG, DR. HOWARD, Psychol, see 10th ed, Soc. & Behav. Vols.

IKE, PROF. NOBUTAKA, b. Seattle, Wash, June 6, 16; m. 42; c. 2. POLITICAL SCIENCE. A.B, Washington (Seattle), 40; Soc. Sci. Res. Coun. grant, Hopkins, 46-48, Ph.D, 49. Lectr, Walter Hines Page Sch. Int. Rels, Hopkins, 48-49; curator Japanese collections, Hoover Inst, STANFORD, 49-58, assoc. prof. POLIT. SCI, 58-63, PROF, 63- Ford Found. fel, 53-55. Polit. Sci. Asn; Asn. Asian Studies. Modern Japanese politics; beginnings of political democracy in Japan. Publ: Japan's decision for war, Stanford Univ, 67. Address: Dept. of Political Science, Stanford University, Stanford, Calif. 94305.

IKEDA, PROF. KIYOSHI, b. Ewa, Hawaii, Apr. 5, 28; m. 52; c. 1. SOCIOLOGY. B.A, Hawaii, 50, M.A, 55; Ph.D, Northwestern, 59. Instr. SOCIOL, U.S. Armed Forces Inst, Hawaii, 54; Oberlin Col, 58; Wisconsin, 58-60; asst. prof, OBERLIN COL, 60-64, assoc. prof, 64-66, PROF, 67- Med.Serv.C, U.S.A, 51-53. AAAS; Sociol. Asn; Anthrop. Asn; Law & Society Asn. Complex organizations along comparative cross-cultural lines; social stratification and effects on selected behaviors; social psychological studies of attitude structures and functions; methodological studies. Publ: Co-auth, Ethnocultural factors in schizophrenia: the Japanese in Hawaii, Am. J. Sociol; Equilibrium models and social mobility, In: Mathematics and change, Univ. Hawaii, 66; Treating matching as a variable in a sociological experiment, Am. Soc. Rev, 10/67. Address: Dept. of Sociology & Anthropology, Oberlin College, Oberlin, Ohio 44074.

IKLE, DORIS MARGARET, b. Frankfurt, Germany, May 28, 28; nat; m. 59. ECONOMICS. B.A, N.Y. Univ, 49, M.A, 54; Columbia, 53-57. Asst, Nat. Bur. Econ. Res, 49-55; res. economist, Am. Bankers Asn, 55-57; economist, Rand Corp, 57-61; sr. economist, United Res. Serv, 61; CONSULT, STANFORD RES. INST, 61- Econ. Asn. Monetary policy; fiscal analysis; business cycles; the index of real value, a new formulation of the index number problem. Publ: Manufacturers' inventory cycles and monetary policy, J. Am. Statist. Asn; Inter-industry wage changes, 1939-1947, Rev. Econ. & Statist; How would arms control affect the defense budget?, Air Force & Space Digest. Address: 1467 Amalfi Dr, Pacific Palisades, Calif. 90272.

IKLE, DR. FRED CHARLES, b. Samaden, Switz, Aug. 21, 24; nat; m. 59. SOCIOLOGY, INTERNATIONAL RELATIONS. M.A, Chicago, 48, Ph.D.(sociol), 50. Res. assoc. demog, Bur. Appl. Soc. Res, Columbia, 50-54; staff mem. strategic studies, Rand Corp, 55-62; res. assoc. int. rels, Center Int. Affairs, Harvard, 62-63; assoc. prof. polit. sci, Mass. Inst. Tech, 63-66, prof, 67; HEAD SOC. SCI. DEPT, RAND CORP, 67- Rockefeller Found. grants, 53 & 62; faculty assoc, Inst. Polit, Harvard, 66- Consult, Nat. Res. Coun, 54-56, Dept. State & Dept. Defense, 67- Mem. U.S. Air Force Sci. Adv. Bd, 61-62. Sociol. Asn; Pop. Asn; Polit. Sci. Asn; Inst. Strategic Studies. Strategic analysis; international relations and bargaining; cost-effectiveness studies and other research methods for policy analysis. Publ: The social impact of bomb destruction, Univ. Oklahoma, 58; How nations negotiate, Harper, 64; After detection what?, For. Affairs, 61. Address: Rand Corp, 1700 Main St, Santa Monica, Calif. 90406.

ILANIT, DR. NATHAN, b. Danzig, Oct. 26, 28; m. 48; c. 2. CLINICAL PSYCHOLOGY. A.B, Southern California, 54, Ph.D, 61. Staff psychologist, White Mem. Hosp, 58-61; instr. PEDIAT, SCH. MED, LOMA LINDA, 61-63, ASST. PROF, 63- Asst. prof. med. psychol, Univ. Calif-Calif. Col. Med, 66- Israel Defense Force, 48-50, Sgt. Maj. Psychol. Asn. Schizophrenia; intellectual development of prematurely born children; projective testing; play therapy; adult psychotherapy. Address: 6238½ W. Manchester Ave, Los Angeles, Calif. 90045.

ILANIT, DR. TAMAR, b. Tel-Aviv, Israel, May 5, 29; m. 48; c. 2. CLINICAL PSYCHOLOGY. A.B, Southern California, 53, Ph.D, 59. CLIN. PSYCHOLOGIST, STATE VOC. REHAB. SERV, CALIF, 60- Staff psychologist, United Cerebral Palsy Asn. Los Angeles County, Inc, 58-62, proj. dir, 59-62; clin. psychologist, State Prog. Phys. Handicapped Children, 60-; lectr, sch. med, California, Irvine, 65- Psychol. Asn. Brain function; learning theory; vocational rehabilitation. Publ: Evaluation of a total push program in a specialized agency for the cerebral palsied; Study of the upper extremity control brace for self-feeding with cerebral palsied athetoid adults. Address: 7801 Henefer Ave, Los Angeles, Calif. 90045.

ILARDI, DR. VINCENT, Renaissance Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ILCHMAN, DR. WARREN FREDERICK, b. Denver, Colo, Sept. 6, 34; m. 60. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Brown, 55; Ph.D, Cambridge, 59. Supvr. polit, Magdalene Col, Cambridge, 58-59; instr, Williams Col, 59-62, asst. prof, 62-66; ASSOC. PROF. POLIT. SCI, CALIFORNIA, BERKELEY, 66- Rockefeller Res. fel, 63-65. Burchfield award, 65. Polit. Sci. Asn; Soc. Pub. Admin; Royal Inst. Pub. Admin; Indian Inst. Pub. Admin. Comparative politics and administration. Publ: Professional diplomacy in the United States: 1779-1939; The new men of knowledge; the new states, 68 & co-auth, Political economy of change, 68, Univ. California. Address: Dept. of Political Science, University of California, Berkeley, Calif. 94720.

ILLÁN, JOSE M, b. Havana, Cuba, May 5, 24; m. 48; c. 3. ECONOMICS, ACCOUNTING. Univ. Havana, Cuba, 46-53. Teas, Suntex Textile Corp, Cuba, 47-55; adv. & cmnr. textiles, Cuban Gen. Consulate, New York, 55-56; prof. pub. finance, Univ. La Salle, Cuba, 57-60; dir. acct, Simago S.A, Spain, 60; res. assoc. econ, Miami (Fla), 61-64; econ. adv. indust. develop, C.E.N.D.E.S, Quito, Ecuador, 64-67; ASST. DIR. COOP. BANKS PROG, COOP. LEAGUE U.S.A, 67- Pres, Kenafera del Canimar Co, Cuba, 56-59; exec. asst. to pres, Cuban Rayon Co, 56-59; under-secy, Cuban Ministry Finance, 59-60; sr. partner, Illán y Gonzales Cofino, 60; dir, Consol. R.R. Cuba, 60. Econ. Asn; Nat. Asn. Acct. Publ: Cuba: facts & figures of an economy in ruins, AIP Press, 63; co-auth, A study on Cuba, Univ. Miami, 64; auth, Cost of an industrial project, CENDES, Quito, Ecuador, 66. Address: 10225 Kensington Pkwy, Apt. 509, Kensington, Md. 20795.

ILLICK, PROF. J(OHN) ROWLAND, b. Nanchang, China, Feb. 22, 19; m. 43; c. 4. GEOGRAPHY. A.B, Syracuse, 40, M.A, 41; A.M, Harvard, 43, Ph.D, 54. Instr. GEOG, HARVARD, 42-44; MIDDLEBURY COL, 46-49, asst. prof, 50-54, assoc. prof, 54-62, PROF, 62- Assoc. prof. & chmn. dept, American Univ. Beirut, 58-60; summers, asst. prof, Michigan, 56, British Columbia, 57, 62, Manitoba, 61, Vermont, 62, Queens Col, 65, Queens, 66, Syracuse, 67; Vermont Wildland Found. res. grant, 67. Contrib, Vermont Atlas. Mem, Civilian Pub. Serv, 44-46. Asn. Am. Geog; Nat. Coun. Geog. Ed. Economic and regional geography; visual aids in geography education; Asia; cartography. Address: Dept. of Geography, Middlebury College, Middlebury, Vt. 05753.

IMBER, DR. STANLEY D(ONALD), b. Lynn, Mass, Feb. 23, 23; m. 52; c. 2. PSYCHOLOGY, PSYCHIATRY. A.B, Harvard, 48; Princeton, 48-50; U.S. Pub. Health Serv. fel, Hopkins, 52-53; Ph.D.(psychol), Rochester, 53. Intern psychol, Vet. Admin, 48-52; instr. psychiat, SCH. MED, HOPKINS, 53-56,

asst. prof. MED. PSYCHOL, 56-59, ASSOC. PROF, 59-, DIR. DIV. MED. PSYCHOL, 64- Consult, Spring Grove State Hosp, Catonsville, 57-; Baltimore City Hosps, 60-; State Dept. Ment. Hyg, Md, 60-; prog. adv. serv. for ed. & training, Am. Psychol. Asn, 67- Psychol. Asn. Psychotherapy; alcoholism; group psychotherapy; medical psychology. Publ: Co-auth, An interview method for assessing alcoholism, Am. J. Orthopsychiat, 65, Target complaints as criteria of improvement, Am. J. Psychother, 66 and Role of non-specific factors in short term psychotherapy, Australian J. Psychol. Address: 2409 Rockwood Ave, Baltimore, Md. 21209.

IMBROGNO, DR. SALVATORE, b. New York, N.Y, June 14, 29; m. 58; c. 2. POLITICAL SCIENCE. B.S, N.Y. Univ, 52, M.S.S, 57, Ph.D.(pub. admin), 65. ASST. PROF. POLIT. SCI, SETON HALL, 67-; CONSULT, N.J. DEPT. PUB. LAW & SAFETY, 66- U.S.A, 52-54, Sgt. Soc. Pub. Admin; Polit. Sci. Asn. Public administration; accident research. Address: 44 Western Ave, Apt. 5, Trenton, N.J. 08618.

IMLAH, PROF. ALBERT H(ENRY), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

IMM, DR. CHARLES ROGER, b. Minneapolis, Minn, Dec. 1, 35. PSYCHOLOGY. A.B, Minnesota, 57; California, Berkeley, 59; Ph.D.(psychol), Stanford, 65. Thomas Welton Stanford psychic res. fel, Stanford, 65-66; ASST. PROF. PSYCHOL, WILLIAMS COL, 66- Psychol. Asn. Clinical psychology; psychotherapy; testing; experimental psychodynamics; hypnosis; primary process thought. Address: Dept. of Psychology, Williams College, Williamstown, Mass. 01267.

IMMERDAUER, B(ERNARD), b. Lwow, Poland, Dec. 26, 10; nat; m. 50. ECONOMICS. Univ. Jan. Casimir, Poland, 31-34; M.S.S, New Sch. Soc. Res, 41; M.A, Columbia, 51; Georgetown, 57-58; Indust. Col. Armed Forces, 61. Econ. analyst, bur. for. & domestic commerce, U.S. Dept. Commerce, 43; asst. agr. economist, Food Distribution Admin, U.S. Dept. Agr, 43-44; econ. info. specialist, Petrol. Reserves Corp, U.S. Dept. Interior, 44-45, analyst, oil & gas div, 46-47, 51; Petrol. Admin. War, 45-46; asst. prof. econ, Oklahoma, 47-51; price economist, Off. Price Stabilization, 51-53; asst. prog. economist, Agency for Int. Develop, Haiti, 58-63, prog. economist, Brazil, 63-66; REGIONAL ECONOMIST, U.S. ARMY CORPS ENG, 66- Econ. Asn. Economics of petroleum production; problems of underdeveloped economies; national income; balance of payment issues; impact of water resource development on the national and regional economy. Publ: Contrib, History of petroleum administration for war and Transportation of oil. Address: 1600 S. Eads St, 830-S, Arlington, Va. 22202.

IMMERGLUCK, PROF. LUDWIG, b. Vienna, Austria, Sept. 19, 20; nat; m. 50; c. 3. PSYCHOLOGY. Ph.D.(psychol), Iowa, 47. Staff psychologist, Kings County Hosp, N.Y, 47-48; lectr. psychol, California, 48-50; faculty mem, Sarah Lawrence Col, 50-52; supv. psychologist, Palo Alto Vet. Admin. Hosp, Calif, 52-53; assoc. prof. PSYCHOL, SAN FRANCISCO STATE COL, 53-61, PROF, 61- U.S. Pub. Health Serv. spec. fel, Harvard Florence Res. Proj, Italy, 63-64. AAAS; Psychol. Asn. Perception; personality; history of science. Publ: Role of set in perceptual judgment, J. Psychol; Perceptual judgment as a function of context, Brit. J. Psychol; Determinism-freedom in contemporary psychology, Am. Psychologist, 64. Address: Dept. of Psychology, San Francisco State College, San Francisco, Calif. 94132.

IMPELLITTERI, DR. JOSEPH T(HOMAS), b. New London, Conn, Jan. 17, 36; m. 61; c. 1. PSYCHOLOGICAL MEASUREMENT, EDUCATION. B.S, Col. Holy Cross, 59; M.S, Fordham, 61, Ph.D.(measurement, guid), 64. Lectr. ED. RES, off. res. & eval, div. teacher ed, City Univ. New York, 62-64, instr, 64-65; ASST. PROF. ED, DEPTS. VOC. ED. & ED. PSYCHOL, PA. STATE, 65- Ed. Res. Asn; Nat. Coun. Measurement in Ed; Personnel & Guid. Asn; Nat. Voc. Guid. Asn. Variables in the education of teachers and the effects of teachers on their students; development and evaluation of the applications of computers in the educative process. Publ: A computerized occupational informational system, Voc. Guid. Quart, 6/67; The predictive efficiency of the high school placement test, Personnel & Guid. J, 10/67; Toward a framework for research in trade and industrial teacher education, J. Indust. Teacher Ed, winter 67. Address: 248 Chambers, Pennsylvania State University, University Park, Pa. 16802.

IMPELLIZZERI, PROF. IRENE HELEN, b. Brooklyn, N.Y, May 18, 22; m. 44. EDUCATIONAL PSYCHOLOGY. B.S, N.Y. Univ, 41; M.A, Columbia, 42. Teacher, high schs, N.Y, 42-59; asst. psychologist, Manhattan Eye & Ear Hosp. & Hearing Clin, 55-58; RES. COORDINATOR & CONSULT, SPEC. PROJ, COLUMBIA-CITY BD. ED, N.Y, 59-; ASSOC. PROF. ED. PSYCHOL, BROOKLYN COL, 61-, ASSOC. DEAN DEPT. ED, 67- Adj. assoc. prof, Fordham, 58-67. Psychol. Asn; Personnel & Guid. Asn. Mentally superior pupils; problem of underachievement; auditory and visual perception. Publ: Nature and scope of the problem, In: Guidance for the underachiever with superior ability; Auditory perceptual ability of normal children aged 5 through 8, J. Genetic Psychol, 12/67; Personality of the college student, In: Counseling the college student, Macmillan, 68. Address: 205 Clinton Ave, Brooklyn, N.Y. 11205.

IMRE, PAUL D(AVID), b. New York, N.Y, May 30, 25; m. 56; c. 2. MENTAL HYGIENE. B.S, Illinois, 50; M.A, N.Y. Univ, 51, 51-60; M.P.H, Hopkins, 63. Extern psychologist rehab, City Hosp, New York, N.Y, 51-52; intern psychologist clin. psychol, Springfield State Hosp, Md, 52-53; staff psychologist, Cherokee Ment. Health Inst, Iowa, 53-54, chief psychologist, 54; staff psychologist, Spring Grove State Hosp, Md, 54-57, chief psychologist, 57-63; RES. ASSOC. MENT. HYG, SCH. HYG. & PUB. HEALTH, HOPKINS, 63- U.S. Pub. Health fel. ment. hyg, 62-63; Joseph P. Kennedy, Jr. Mem. Found. grant, 63-64. Consult, State Dept. Health, Md, 55-; sch. hyg, Hopkins, 58-; Child Study Center Md, 60- U.S.A, 43-45. AAAS; Psychol. Asn; Group Psychother. Asn; Soc. Proj. Tech; Rehab. Asn; Pub. Health Asn. Diagnosis of psychopathology of adults and children; epidemiologic research and prevention of mental retardation and mental illnesses. Publ: Existentialism and education, Ed. Theory; Attitudes towards mental hospitals, J. Clin. Psychol; Mental retardation in a Maryland county, 4/67. Address: Dept. of Mental Hygiene, Johns Hopkins University School of Hygiene & Public Health, 615 N. Wolfe St, Baltimore, Md. 21205.

IMSE, PROF. THOMAS P(AUL), b. Milwaukee, Wis, Mar. 2, 20; m. 45; c. 6. SOCIOLOGY. Ph.B, Marquette, 41, M.A, 42; univ. scholar, Michigan, 43-44; Ph.D, Maryland, 58. Instr. econ. & sociol, Mich. State Norm. Col, 42-43, 44-45; SOCIOL, Maryland, 46-55; from asst. prof. to PROF. & CHMN. DEPT, Canisius Col, 55-63; COL. HOLY CROSS, 63- Statistician & admin. asst, Washtenaw County Health Dept, Mich, 44-46; co-res. dir. & mem. bd, Worcester Center Community Studies. Consult, 52-55. Sociol. Asn; Pop. Asn; Soc. Study Social Probs; Soc. Sci. Study Relig. Industrial sociology; population studies. Publ: Metropolitan Buffalo perspectives; Professionalization of business management. Address: Dept. of Sociology, College of the Holy Cross, Worcester, Mass. 01610.

INABA, PROF. M(ASAHARU) G(EORGE), b. Greenwich, Conn, May 11, 24; m. 54; c. 4. GEOGRAPHY. B.S, Baldwin-Wallace Col, 46; Ph.D, Columbia, 59. Asst. prof. GEOG, HOFSTRA, 58-66, ASSOC. PROF, 66- Asn. Am. Geog; Asn. Asian Studies. Address: Dept. of Geography, Hofstra University, Hempstead, N.Y. 11550.

INAGAKI, PROF. MORIDO, b. Tokio, Japan, Apr. 25, 23; m. 62. ECONOMICS. Lic. es sci. physics, Geneva, 55, lic. es sci. econ, 56, fel, grad. inst. int. rels, 58-62; Dr. econ, Netherlands Sch. Econ, 67. Asst. exp. physics, Inst. Physics, Geneva, 50-52, theoretical physics, 52-53, geophysics, 52-62; sr. res. assoc. optimal econ. growth & develop. planning, Netherlands Sch. Econ. & Netherlands Econ. Inst, 62-67; consult. socio-econ. planning, UN Res. Inst. Soc. Develop, 67; assoc. prof. math. econ. & growth, Sir George Williams, 67-68; PROF. ECON, MONTREAL, 68- Prof, Sir George Williams, 68- Economet. Soc; Am. Econ. Asn; Can. Econ. Asn; Swiss Polit. Sci. Asn. Nuclear field theory; gravimetric and electric geophysical prospection; methodology of political science; optimal economic growth; socio-economic development planning. Publ: Towards a new theory of optimal economic growth, N.Holland Pub. Co, (in press); co-auth, Theorème H et unitarité de S, Helvetica Physica Acta, 54; co-auth, Les anomalies gravifiques de Genève, Arch. Sci, Geneva, 60. Address: Apt. 1104, 1400 W. Pine Ave, Montreal, Que, Can.

INDIK, DR. BERNARD PAUL, b. Philadelphia, Pa, Apr. 30, 32; m. 55; c. 4. PSYCHOLOGY, SOCIOLOGY. B.S, Pennsylvania, 54, M.B.A, 55; cert, Phila. Textile Inst, 55; A.M, Michigan, 59, Ph.D.(psychol), 61. Statist. asst, U.S. Army Med. Nutrition Lab, Fitzsimons Army Hosp, Denver, Colo, 56-57; asst. study dir. PSYCHOL. & SOCIOL, surv. res. center, Michigan, 57-61, study dir, 61; asst. res. prof, dept. psychol. & res. sect, inst. mgt. & labor rels, RUTGERS, 61-65. ASSOC. RES. PROF, RES. SECT, INST. MGT. & LABOR RELS, 65- Off. Naval Res. res. grant, 61-67. Med.C, U.S.A, 55-57. Psychol. Asn; Indust. Rels. Res. Asn; Soc. Gen. Systs. Res. Organizational behavior; labor-management relations; psychological and social measurement; survey research; small group interactions; social psychology. Publ: Co-auth, People, groups, and organizations, Teachers Col, Columbia, 68; auth, Motivation to work, 66 & co-auth, Newark, N.J, population and labor force characteristics, spring 1967, Inst. Mgt. & Labor Rels, Rutgers. Address: Research Section, Bldg. 4077, Kilmer Area, Rutgers, The State University, New Brunswick, N.J. 08903.

INFANGER, DR. CARLTON A, b. Kremmling, Colo, Jan. 25, 23; m. 48; c. 5. AGRICULTURAL ECONOMICS, ECONOMICS. B.S, Mont. State Col, 55, M.S, 56, Ph.D.(agr. econ), 64; California, Berkeley, 56-57. Exec-secy, Mont. Taxation-Ed. Cmn, 57-59; proj. leader rural develop, Washington State, 59-60; asst. prof, Mont. State Col, 60-61, res. asst. land econ, 61-64; asst. prof. AGR. ECON. & ECON, BRIGHAM YOUNG, 64-65, ASSOC. PROF. & CHMN. DEPT, 65- Res. fel, Nat. Sci. Found. Summer Inst, Missouri, 65. U.S.N, 44-46. Agr. Econ. Asn. Soil and water conservation; effects of federal ownership of range resources on local economies under changing fee schedules; rural development and farm management; financing state government. Publ: Montana taxation: education commission report to the Governor, State Mont, 58; co-auth, Economics of cattle feeding, 61 & auth, Economic significance of federal ownership of BLM administered lands on selected Montana county incomes, 64, Mont. State Col. Address: Dept. of Agricultural Economics, 370 HG-B, Brigham Young University, Provo, Utah 84601.

INFIELD, DR. H(ENRIK) F(REIER), b. Cracow, Austria, Mar. 24, 01; nat; m. 35; c. 1. SOCIOLOGY. Ph.D.(philos), Vienna, 25. Res. assoc. sociol, Vassar Col, 39-40; instr, City Col. New York, 41; exec. dir. Group Farming Res. Inst, Inc, 42-57; ed, Coop Living, 49-57; Int. Arch. Sociol. of Coop, 57-65; FOUNDER & CO-ED, ISRAEL ANN. PSYCHIAT. & RELATED DISCIPLINES, 63- Vis. prof, Columbia, 41; lectr, Hebrew Univ, Israel, 49, vis. prof, 57-; lectr, Coop. Col, Loughborough, Eng, 55. Consult, Cabinet of Sask, Can, 46-47; Off. War Info, 44-45. Pres, Int. Coun. Res. in Sociol. of Coop, 54-65; fel, World Acad. Art & Sci, 61- Sociol. Asn; Rural Sociol. Soc; Sociomet. Soc. Methods and techniques of sociological research; cooperative group dynamics; sociometry. Publ: Cooperative living in Palestine; Cooperative communities at work; Utopia and experiment. Address: Ein Karem G. 28 Jerusalem, Israel.

INFINGER, PROF. M(ARVIN) LESLIE, b. Harleyville, S.C, Apr. 17, 12; m. 44; c. 4. BUSINESS ADMINISTRATION. A.B, Wofford Col, 42; B.D, Garrett Biblical Inst, 45; M.A, Northwestern, 45. ASSOC. PROF. BUS. ADMIN, THE CITADEL, 48- Econ. Asn. Government finance; business organization; money and banking. Publ: History of Asbury Memorial Methodist Church, Charleston, South Carolina. Address: 557 Godfrey Park Place, Moreland, Charleston, S.C. 29407.

INGBAR, DR. MARY LEE, b. New York, N.Y, May 18, 26; m. 50; c. 3. ECONOMICS. S.B, Radcliffe Col, 46, A.M, 48, Ph.D.(econ), 53; M.P.H, Harvard, 56. Price economist, bur. labor statist, U.S. Dept. Labor, 51-52; bus. economist, U.S. Dept. Interior, 52-53; lectr. med. econ, sch. pub. health, Harvard, 57-61, res. assoc. sch. pub. admin, 61-66; RES. & WRITING, 66- Mem. orgn. health serv. panel, Nat. Adv. Cmn. Health Manpower, 66-67. AAAS; Econ. Asn; Statist. Asn; fel. Pub. Health Asn. Application of economics and techniques of input-output analysis to organization and administration of medical care programs; medical economics and care. Publ: MEROPS: medical economics regression option programming system, Harvard Grad. Sch. Pub. Admin, 66; co-auth, Hospital costs in Massachusetts,

Harvard, 68 & Differences in the costs of nursing service, Am. J. Pub. Health, 10/66. Address: 41 Montvale Rd, Newton Center, Boston, Mass. 02159.

INGELHART, PROF. LOUIS E, b. Minco, Okla, Jan. 19, 20; m. 48; c. 2. JOURNALISM, PUBLIC RELATIONS. B.A, Colo. State Col, 42, M.A, 47; Ph.D.(journalism), Missouri, Columbia, 53. Instr. Eng, Colo. State Col, 46-47; journalism, Wayne State Col, 47-50; asst. pub. rels, Missouri, Columbia, 50-52; instr. JOURNALISM, Stephens Col, 52-53; PROF, BALL STATE, 53- Ed. Found. Pub. Rels. Soc. Am. summer fel. pub. rels, 62. U.S.A.A.F, 42-45, S/Sgt. Asn. Ed. Journalism. Journalism education for college and secondary levels; freedom of the student press; legal foundations of press freedom. Publ: Co-auth, Public relations problems, Lucas Bros, 51. Address: Dept.of Journalism, Ball State University, Muncie, Ind. 47306.

INGENOHL, DR. INGO, b. Leipzig, Germany, Feb. 23, 14; nat; m. INDUSTRIAL PSYCHOLOGY & ENGINEERING. M.S, Tech. Univ. Berlin-Charlottenburg, Germany, 39, Ph.D, 43. Mgt. Consult, Germany & Denmark, 42-48; supvr, indust. eng, Du Pont of Can, Ltd, 50-55; asst. prof. indust. mgt, Mass. Inst. Tech, 55-58; dir. psychol. serv, Mid. West Serv. Co, 58-67; ASSOC. PROF. MGT, BABSON INST, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 64. Psychol. Asn; sr. mem, Inst. Indust. Eng. Psychological testing, selection and placement; measurement of personality; management development and performance appraisal; motivation and leadership; organizational behavior. Publ: Measuring physical effort, J. Indust. Engr; Significance of the no-count in the Bernreuter personality inventory, J. Soc. Psychol; Conference leadership, J. Training & Develop, 1/61. Address: 11 Linden Square W, Wellesley, Mass. 02181.

INGERSOLL, DR. DAVID EDWARD, b. Chicago, Ill, Nov. 12, 39; m. 62. POLITICAL SCIENCE. B.A, Carleton Col, 61; fel. & Ph.D.(polit. sci), Claremont Grad. Sch, 64. ASST. PROF. POLIT. SCI, DELAWARE, 64-, univ. faculty fel, summer 65. Polit. Sci. Asn; Acad. Polit. Sci. Political theory; judicial behavior; political behavior and empirical theory. Publ: Karl Llewellyn, American legal realism and contemporary legal behavioralism, Ethics, 7/66. Address: Dept. of Political Science, University of Delaware, Newark, Del. 19711.

INGERSOLL, PROF. HAZEL L(UELLA), b. Raymond, Nebr, Mar. 3, 08. SOCIAL PSYCHOLOGY, BEHAVIORAL SCIENCE. B.S, Nebraska, 34, M.S, 42; Anna Cora Smith scholar, Cornell, 42-43, univ. fel, 43-44, Ph.D.(soc. psychol), 47. Teacher elem. sch, Nebr, 25-30, voc. teacher, 34-40; res. asst, exp. sta, Nebraska, 40-42; instr, FAMILY RELS. & CHILD DEVELOP, Cornell, 43-44; assoc. prof, Maine, 44-45; PROF, State Univ. N.Y. Col. Buffalo, 45-48; Tennessee, 48-50; OKLA. STATE, 50- Summer travel grant study of family living in Andes Countries of S.Am, 63. Psychol. Asn; Nat. Coun. Family Rels; Home Econ. Asn. Counseling and therapy for all age groups; international intercultural family study; training of international fellows for college teaching in Pakistan and Latin America. Publ: Family values in a consumer age, J. Home Econ; Group scale for measurement of social, cultural and economic status of farm families of the Middle West, Rural Sociol; Transmission of authority patterns in the family, In: Selected readings on the learning process. Address: Dept. of Family Relations & Child Development, Oklahoma State University, Stillwater, Okla. 74074.

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INGLIS, PROF. JAMES, b. Edinburgh, Scotland, Aug. 12, 27; m. 53; c. 2. PSYCHOLOGY. M.A, Edinburgh, 52; dipl, London, 53, Ph.D, 58. Asst. lectr, PSYCHOL, inst. psychiat, London, 53-54, lectr, 55-59; asst, Bethlem Royal Hosp, 54-55; asst. prof. PSYCHOL, Queen's (Ont), 59-61, assoc. prof, 61-65; SCH. MED. TEMPLE, 65-66, PROF, 66- Sr. med. res. scientist, East. Pa. Psychiat. Inst, 65- R.A.F, 45-48. AAAS; Am. Psychol. Asn; fel. Geront. Soc; Can. Psychol. Asn; fel. Brit. Psychol. Soc; assoc. Royal Medico-Psychol. Asn. Experimental psychopathology; learning disorders; aging. Publ: The scientific study of abnormal behavior, Aldine, 66; Abnormalities of motivation and ego-functions, In: Handbook of abnormal psychology, 61; Immediate memory, age and brain function, In: Behavior, aging and the nervous system, 65. Address: Eastern Pennsylvania Psychiatric Institute, Henry Ave, Philadelphia, Pa. 19129.

INGLIS, DR. RUTH A(RDELL), b. Moose Jaw, Sask, Dec. 31, 12; nat; wid. SOCIOLOGY. A.B, Stanford, 35, A.M, 37; Ph.D, Bryn Mawr Col, 45. Researcher, Motion Picture Res. Proj, Calif, 38-39; Curtis Pub. Co, Pa, 40-42; instr. sociol, Smith Col, 42-44; researcher, Cmn. Freedom of the Press, N.Y, 44-46; assoc. prof. sociol, Washington (Seattle), 46-51; INDEPENDENT RES. & WRITING, 51- Asst. to pres, Nat. Asn. Broadcasters, 49. Fel. Sociol. Asn. Mass communications; public opinion; Communism. Publ: Freedom of the movies. Address: 1 W. 81st. St, New York, N.Y. 10024.

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INMAN, DR. WILLIAM C(HARLES), b. Williamsburg, Ky, Sept. 5, 25; m. 64. PSYCHOLOGY, ANTHROPOLOGY. B.A, Kentucky, 58, Nat. Sci. Found. fels, 60-61, M.A, 61, Ph.D.(psychol), 63. Chief adminstr, Sinclair Ref. Co, 48-53; sect. head acct, Cameron Iron Works, 53-54; asst. off. mgr, Fish Northwest Constructors, 55-57; staff engr, Int. Bus. Mach. Corp, 61-64; mgr. surv. res, Spindletop Res, Inc, 64-66; dir. human resources res, Gulf South Res. Inst, 66-68; MGR. BEHAV. & SOC. SCI. LAB, FRANKLIN INST, 68- A.U.S, 43-46. Psychol. Asn. Application of behavioral and social science principles to human problems of national significance, especially urban problems, employment and training and health. Address: Franklin Institute, Philadelphia, Pa. 19103.

INNES, DR. F(RANK) CECIL, b. Edinburgh, Scotland, Oct. 26, 34; m. 61; c. 3. HISTORICAL GEOGRAPHY. B.Sc, Glasgow, 57; Glasgow-McGill exchange scholar, McGill, 57-58, M.A, 60, Can. Coun. fel, 61, Ph.D.(hist. geog), 67. Sessional lectr. GEOG, McGILL, 58-60, lectr, 60-64, asst. prof, 64-67, ASSOC. PROF, 67- Consult, Can. Royal Cmn. Bilingualism & Biculturalism, 65-67. Asn. Am. Geog; Can. Asn. Geog.(treas, 63-); Can. Asn. Am. Studies. Historical geography of Canada and the Caribbean, especially farming systems; historical geography of urbanization and resource utilization. Publ: Co-auth, Montreal population 1961, In: Atlas, Can. Royal Cmn. Bilingualism

& Biculturalism, 4 vols, 65; auth, Planned development in the continuum of established trends—Barbados, Proc. Latin Am. Regional Conf. Int. Geog. Union, 66. Address: Dept. of Geography, McGill University, Montreal, Que, Can.

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INSALACO, DR. CARL, b. Buffalo, N.Y, Aug. 23, 30; m. 61; c. 2. PSYCHOLOGY. B.A. Arizona, 56; Ph.D.(psychol), Fla. State, 66. Clin. psychologist, Gracewood State Sch. & Hosp, Ga, 62-66; ASST. PROF. PSYCHOL, SOUTH CAROLINA, 66- Consult, Pineland Training Sch. & Hosp. & Child Eval. Clin. Columbia, 66-; Dept. Voc. Rehab, S.C, 66- U.S.M.C, 49-51, Sgt. Psychol. Asn; Asn. Ment. Deficiency. Experimental analysis of human behavior; principles of behavior modification; principles of reinforcement. Address: Dept. of Psychology, University of South Carolina, Columbia, S.C. 29208.

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IRONSIDE, DR. CHARLES EDWARD, Sociol, see 10th ed, Soc. & Behav. Vols.

IRONSIDE, DR. R. G, b. Newcastle upon Tyne, Eng, June 10, 38. GEOGRAPHY. B.A, Durham, 59, Ph.D.(geog), 65. Demonstr. GEOG, Kings Col, Durham, 62-63; ASST. PROF, ALBERTA, 63- Asn. Am. Geog; Can. Asn. Geog; Inst. Brit. Geog. Rural problems, especially population change; regional planning. Publ: Britain's rural area: problems and prospects, Occasional Papers in Geog, Can. Asn. Geog, B.C. Div, 64; Rural problems and regional planning: British and Canadian experience, In: Northern Geographical Essays for G.H.J. Daysh, Oriel Press, 67. Address: Dept. of Geography, University of Alberta, Edmonton, Alta, Can.

IRVINE, DR. LA VERNE F, b. Saxonburg, Pa, June 30, 20. SOCIAL PSYCHOLOGY. B.M, La. Polytech, 42, B.A, 47; M.A, Stanford, 51, Ph.D, 56. Res. assoc. psychol, personnel res. inst, Western Reserve, 52-53; instr, San Jose State Col, 53-54, 56; res. psychologist, ed. res. lab, U.S. Air Force Personnel Training & Res. Center, Maxwell Air Force Base, Ala. & personnel lab, Lackland Air Force Base, Tex, 56-57; soc. psychologist, dept. res. & develop, S.C. State Hosp, 57-63; lectr. PSYCHOL, Far East Div, Univ. Maryland, 63-64, European Div, 64-65; ASSOC. PROF, AUBURN, 65- Lectr, South Carolina, 58; asst. prof, Columbia Col, 62. U.S.A.A.F, 42-45. AAAS; Am. Psychol. Asn; Int. Coun. Psychol. Group dynamics; individual and social change; sensitivity training; problems of organizations; personality. Address: Dept. of Psychology, Auburn University, Auburn, Ala. 36830.

IRVINE, DR. ROBERT P, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

IRVING, PROF. JOHN ALLAN, Psychol, see 10th ed, Soc. & Behav. Vols, deceased.

IRVING, PROF. MARK, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

IRVING, DR. ROBERT M, b. Winnipeg, Man, Aug. 1, 30; m. 54; c. 3. GEOGRAPHY. B.A, Toronto, 52, M.A, 56; Ph.D.(geog), Minnesota, 66. Lectr. soil sci, Ont. Agr. Col, 56-60; asst. prof. GEOG, Manitoba, 62-64; ASSOC. PROF, WATERLOO, 64- Am. Asn. Geog; Can. Asn. Geog. Soil science; rural geography; geography of Canada. Publ: Readings in the geography of Canada, Holt, 68. Address: Dept. of Geography & Planning, University of Waterloo, Waterloo, Ont, Can.

IRVING, DR. WILLIAM N(ATHANIEL), b. Toronto, Ont, Nov. 11, 27. ANTHROPOLOGY. B.A, Alaska, 52; Harvard, 53-57; Ph.D.(anthrop), Wisconsin, 64. Prin. investr. archaeol, Alaska, 52-53; archaeologist, Mo. Basin Proj, Smithsonian Inst, 57-59; asst. anthrop, Wisconsin, Madison, 59-64; head West. Can. Sect, ARCHAEOL. DIV, NAT. MUS. CAN, 64-68, HEAD NORTH. CAN. SECT, 68- Sessional lectr, Carleton (Can), 67-68. U.S.A, 46-47, 2nd Lt. Fel. AAAS; Soc. Am. Archaeol; fel. Anthrop. Asn; fel. Arctic Inst. N.Am. Prehistory and palaeoecology in northwestern North America and northeastern Asia; Eskimo and Athabaskan ethnography and prehistory; cultural adaptations to northern environments. Publ: Late Pleistocene and recent Missouri River terraces in Big Bend Reservoir, South Dakota; Provisional comparison of some Alaskan and Asian stone industries; Archaeology of the barren grounds west of Hudson Bay, In: Symposium on Hudson Bay, Dept. of Energy, Mines & Natural Resources, Can, 68. Address: National Museum, Ottawa, Ont, Can.

IRWIN, PROF. DAVID HENRY, b. Tennessee Ridge, Tenn, Sept. 9, 24. GEOGRAPHY. B.S, Tennessee, 48, M.S, 49; George Peabody Col, 50; Washington (Seattle), 58. Instr. GEOG, Tennessee, 62-64; MURRAY STATE, 64-65, asst. prof, 65-66, ASSOC. PROF, 66-, acting chmn. div, 65-67. Vis. lectr, E. Carolina Col, summer 64. U.S.A, 43-45; U.S.N, 50-54. Asn. Am. Geog; Nat. Coun. Geog. Ed; Am. Geog. Soc. Historical geography of the Nashville Basin, Tennessee; land use in the Jackson Purchase of Kentucky. Address: Dept. of Geography, Murray State University, Box 1054, Murray, Ky. 42071.

IRWIN, DONALD M, b. Albuquerque, N.Mex, July 3, 25; m. 51. ECONOMICS. A.B, California, 45; Cornell, 46-47; Harvard, 53-55, 62-63. Asst, inst. indust. rels, California, 48-50, community rels. rep, 50-51; personnel dir, Hawaiian Airlines, Ltd, 51-53; asst. to dep. asst. secy. labor, standards & statist, Off. Secy, U.S. Dept. Labor, D.C, 55-57; mgr. res. & planning dept, Chrysler Corp, Mich, 57-67; LABOR ECONOMIST, DEERE & CO, MOLINE, 68- Mem. bus. res. adv. coun, Bur. Labor Statist, U.S. Dept. Labor, 60- Econ. Asn; Statist. Asn; Indust. Rels. Res. Asn. Labor economics; collective bargaining; personnel administration; economic and labor history; marketing; business forecasting; taxation. Publ: Co-auth, Strike experience in five countries, 1927-1947: an interpretation, Indust. & Labor Rels. Rev. Address: 5 Hawthorne Rd, Rock Island, Ill. 61201.

IRWIN, PROF. FRANCIS W(ILLIAM), b. Philadelphia, Pa, Feb. 11, 05; m. 30. PSYCHOLOGY. A.B, Pennsylvania, 26, A.M, 28, Ph.D.(psychol), 31. Asst. PSYCHOL, PENNSYLVANIA, 26-29, instr, 29-39, asst. prof, 39-45, assoc. prof, 45-52, PROF, 52-, acting chmn. dept, 57-58. Soc. Sci. Res. Coun. fel, California & Iowa, 40-41; vis. prof, California, 56-57. Consult, Nat. Defense Res. Cmt, Franklin Inst, 41-45; cmt. undersea warfare, Nat. Res. Coun, 48- AAAS; fel. Psychol. Asn.(acting ed, J. Exp. Psychol, 42-46, ed, 47-50); Psychonomic Soc. Motivation; decision-processes. Publ: Value, cost and information as determiners of decision, J. Exp. Psychol; On desire, aversion and the affective zero, Psychol. Rev; Motivation and performance, Ann. Rev. Psychol. Address: Dept. of Psychology, University of Pennsylvania, Philadelphia, Pa. 19104.

IRWIN, DR. GALEN A(RNOLD), b. Joplin, Mo, Jan. 14, 42; m. 66. POLITICAL SCIENCE. A.B, Kansas, 63; M.A, Fla. State, 65, Ph.D.(govt), 67. Instr. govt, Fla. State, 67-68; ASST. PROF. POLIT. SCI, IOWA, 68- Research methodology; mathematical political science; voting behavior. Publ: Florida gubernatiorial election of 1966: a look at transitions, Inst. Govt. Res, Fla. State Univ, 1/68. Address: Dept. of Political Science, University of Iowa, Iowa City, Iowa 52240.

IRWIN, DR. GEORGE D, b. Lincoln, Ill, Dec. 16, 35. AGRICULTURAL ECONOMICS. Danforth fel, Illinois, 56, B.S, 57, Ph.D.(agr. econ), 61; M.S, Iowa State Col, 59. Agr. statistician, agr. mkt. serv, crop reporting serv, U.S. Dept. Agr, 57; asst. agr. econ, Iowa State Col, 57-59; Illinois, 59-61; asst. prof. agr. econ, Mich. State, 61-62, agr. economist, econ. res. serv, U.S. Dept. Agr. & collab, Mich. State, 62-64; ASST. PROF. AGR. ECON, PURDUE & AGR. ECONOMIST, ECON. RES. SERV, U.S. DEPT. AGR, 64- Consult, Comco, Tenn, 64. Agr. Econ. Asn. Micro and macro production economics as applied to agricultural policy, supply analysis, farm firm growth and financial management and agricultural credit. Publ: Co-auth, Effects of lender decisions on farm financial planning, Ill. Agr. Exp. Sta. Bull. 688, 11/62; auth, Orienting commodity research to structural and market change, Iowa State Univ. CAED Report 29, 4/67; co-auth, Beef, pork and feed grains in the corn belt: supply response and resource adjustments, Mo. Agr. Exp. Sta. Res. Bull. 921, 8/67. Address: Dept. of Agricultural Economics, Purdue University, West Lafayette, Ind. 47907.

IRWIN, DR. JOHN V(ALEUR), Speech Path, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

IRWIN, PROF. ORVIS C(ARL), b. Detroit, Mich, Jan. 5, 91; m. 19; c. 3. PSYCHOLOGY. A.B, Baldwin-Wallace Col, 14; A.M, Columbia, 24; Ph.D, Ohio State, 29. Res. assoc. psychol, child welfare res. sta, Iowa, 29-31, asst. prof, 31-33, res. assoc. prof, 33-51, prof, 51-59; RES. PROF. LOGOPEDICS, INST. LOGOPEDICS, 59- U.S.A, 18. Psychol. Asn; Soc. Res. Child Develop; Speech & Hearing Asn. Speech of infants and children with cerebral palsy. Publ: Phonetic speech development in cerebral palsied children, Am. J. Phys. Med; Some factors related to speech development of the infant, J. Speech & Hearing Disorders; Development of speech during infancy, J. Exp. Psychol. Address: Institute of Logopedics, 2400 Jardine Dr, Wichita, Kans. 67219.

IRWIN, PROF. RALPH A(LEXANDER), b. San Francisco, Calif, Jan. 24, 05; m. 29; c. 2. PSYCHOLOGY. B.S, Kans. State Col, 28, M.S, 29; summers, Colorado, 29, Wisconsin, 32, Washington (Seattle), 33; Ph.D.(psychol), Ohio State, 38. Instr. PSYCHOL, NEVADA, 29-31, asst. prof, 31-37, assoc. prof, 37-44, PROF, 44-, ADMIN. V.PRES, 68-, chmn. dept, 48-55, dean col. arts & sci, 55-58, acting exec. v.pres, Univ, 64-65. Mem. bd. dirs, Coun. Cols. Arts & Sci. in State Univs. & Land Grant Cols, 65-68. Psychological testing; psychology of propaganda and public opinion; use of emotionally stereotyped phrases in measuring attitudes. Address: College of Arts & Science, University of Nevada, Reno, Nev. 89507.

IRWIN, PROF. RUTH B(ECKEY), b. Linwood, Kans, Jan. 8, 06; m. 40. SPEECH PATHOLOGY. B.S, Kans. State Teachers Col, 29; M.A, Iowa, 36; Ph.D.(speech path), Southern California, 40. Teacher, pub. sch, Kans, 24-26, instr, high sch, 29-36; head dept. speech, William Penn Col, 36-37; instr. speech, Nebr. State Teachers Col, 37-38; instr. & dir. speech clin, Ohio, 40-42; private practice, 42-45; supvr. speech & hearing ther, State Dept. Ed, Ohio, 45-49; asst. prof. SPEECH, OHIO STATE, 49-54, assoc. prof, 54-63, PROF, 63- Mem, Int. Coun. Except. Children. Fel. Psychol. Asn; fel. Speech & Hearing Asn. Speech pathology and clinical psychology; clinical methods and supervision of student clinicians; psychogenic disorders of speech. Publ: Speech pathologist talks to parents and teachers, 62 & Speech and hearing therapy, 65, Stanwix; An audio-visual test for evaluating the ability to recognize phonetic errors, J. Speech & Hearing Res, 9/65. Address: 2685 Henthorne Rd, Columbus, Ohio 43221.

IRWIN, PROF. WILLIAM PRYOR, b. Cleveland, Ohio, May 6, 24; m. 47; c. 3. POLITICAL SCIENCE. A.B, Hiram Col, 47; Yale, 47-48; A.M, Western Reserve, 50; summer, Chicago, 51; Ph.D, California, 55. Asst. prof. polit. sci, Heidelberg Col, 50-52; assoc, California, 52-54; asst. prof, Colorado State, 55-56, 58-60; proj. planner, State Survival Plan Cmn, 56-58; assoc. prof. POLIT. SCI, Colorado State, 60-62; PROF. & CHMN. DEPT, CASE WESTERN RESERVE, 62- Exec. asst. to U.S. Rep. Byron L. Johnson, 60; assoc. dir, Nat. Center Ed. in Polit, 61-62. U.S.N.R, 43-46, Lt.(jg). Polit. Sci. Asn. American political parties and the political process; American interest groups and political theory. Address: Dept. of Political Science, Case Western Reserve University, Cleveland, Ohio 44106.

ISAAC, CHARLES MARTIN, b. Philadelphia, Pa, Jan. 11, 96; m. 20; c. 1. ECONOMICS. A.B, George Washington, 49. Pres. & exec. mgr, Canton Retail Merchants Bd, Ohio, 34-42; exec. asst. to pres, Am. Retail Fedn, D.C, 42-44; mgr. domestic distrib. dept, U.S. Chamber of Commerce, 44-51; exec. v.pres, Retail Jewelers of Am, Inc, 51-60; PRES, BEHR ENTERPRISES, INC, 60- Lectr, Northwestern, 43; Yale, 46; Pennsylvania, 46; N.Y. Univ, 58. U.S.A, 18-19. Econ. Asn. Distribution; marketing. Publ: Story of the American National Retail Jewelers Association. Address: 7 E. 14th St, Suite 307, New York, N.Y. 10003.

ISAAC, DR. E(RICH), b. Mainz, Germany, Sept. 21, 28; nat; m. 56; c. 3. GEOGRAPHY. B.A, Colorado, 54; Bowman & Gillman fels. & Ph.D.(geog), Hopkins, 57. Instr. GEOG, McCoy Col, Hopkins, 56-57; asst. prof, Temple, 57-59; CITY COL. NEW YORK, 60-63, ASSOC. PROF, 63- Ford Found. res. fel, Africa, 59-60 Guggenheim fel, 64-65. AAAS; Am. Geog. Soc; Asn. Am. Geog. Geography of religion; plant and cultural geography; zoogeography Publ: Geography of domestication, Prentice-Hall, 68; On the domestication

of cattle, Science, 7/62; Religious geography and the geography of religion, In: Man and the earth, Univ. Colorado, 65. Address: Dept. of Geography, City College of New York, New York, N.Y. 10031.

ISAAC, GERHARD J(OHN), b. Freeman, S.Dak, May 12, 06; m. 32; c. 2. STATISTICS, ECONOMICS. A.B, Denver, 27; U.S. Dept. Agr. Grad. Sch, Brookings Inst, American Univ, 30-41. Agr. economist, bur. agr. econ, U.S. Dept. Agr, 31-48; collection officer, internal revenue serv, U.S. Dept. Treas, 50-55; CHIEF STATIST. BR, U.S. ARMY MED. RES. & NUTRIT. LAB, 55- Statist. Asn. Public finance; taxation; statistical design and analysis in nutrition research. Publ: Taxing farmers' income; co-auth, Nutritional evaluation of a normal military population; Metabolic aspects of acute starvation in normal humans: performance and cardiovascular evaluation, Am. J. Clin. Nutrit, 7/67. Address: U.S. Army Medical Research & Nutrition Lab, Fitzsimons General Hospital, Denver, Colo. 80240.

ISAAC, PROF. WALTER, b. Cleveland, Ohio, June 13, 27; m. 49; c. 2. PSYCHOLOGY. B.S, Western Reserve, 49; M.A, Ohio State, 50, U.S. Air Force fel. & Ph.D.(psychol), 53. Res. assoc. psychol, Ohio State, 53-54; res. instr, Washington (Seattle), 54-56; asst. res. psychologist, California, Los Angeles, 56-57; asst. prof. PSYCHOL, Emory, 57-60, assoc. prof, 60-65, PROF, 65-68; GEORGIA, 68- U.S.N.R, 45-46. AAAS; Psychol. Asn; Psychomet Soc; Psychonomic Soc; Asn. Lab. Animal Sci. Relationship of central nervous system functions and behavior; primate and animal behavior. Address: Dept. of Psychology, University of Georgia, Athens, Ga. 30601.

ISAACS, PROF. ASHER, Econ, see 10th ed, Soc. & Behav. Vols, deceased.

ISAACS, PROF. HAROLD R(OBERT), b. New York, N.Y, Sept. 13, 10; m. 32; c. 2. POLITICS, POLITICAL SCIENCE. A.B, Columbia, 30. Reporter, ed. & correspondent, New York Times, 28-30; Honolulu Advertiser, 30; China Press, Shanghai, 31; China Forum, Shanghai, 31-33; Havas News Agency, Shanghai, 31-34, N.Y, 35-40; Columbia Broadcasting Co, N.Y. & D.C, 40-43; Newsweek Mag, China-Burma-India theater, Japan, Southeast Asia & N.Y, 43-50; vis. lectr. Asia & int. affairs, Harvard, 51; New Sch. Soc. Res, 51-52; res. assoc, center int. studies, MASS. INST. TECH, 53-65, PROF. POLIT. SCI, 65- Asn. Pub. Opinion Res; Asn. Asian Studies; African Studies Asn. Political behavior; international affairs; race relations; group identity and political change. Publ: The new world of Negro Americans, 63, India's ex-untouchables, 65 & American Jews in Israel, 67, Day. Address: 53-415, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

ISAACS, DR. KENNETH S(IDNEY), b. Minneapolis, Minn, Apr. 7, 20; wid; c. 2. CLINICAL PSYCHOLOGY. B.A, Minnesota, 44; Ph.D.(psychol), Chicago, 56. Intern psychol, Worcester State Hosp, Mass, 46-47; chief psychologist, div. ment. health centers, State Dept. Pub. Welfare, Ill, 50-56; res. assoc. psychiat, col. med, Illinois, 56-66; CLIN. PSYCHOLOGIST, 66- Trainee, ment. hyg. clin, U.S. Vet. Admin, 47-50. U.S.A, 43-45. AAAS; Psychol. Asn. Subjective human experience in relation to psychological development, disorder and psychotherapy. Address: 636 Church St, Evanston, Ill. 60201.

ISAACS, DR. MARK L(EN), b. Baltimore, Md, May 24, 26; m. 50; c. 2. PSYCHOLOGY. B.A, Hopkins, 49; M.A, Catholic Univ, 51, Ph.D, 59. Staff psychologist, Springfield State Hosp, Sykesville, Md, 53-60; chief psychol. serv, Rosewood State Training Sch, Owings Mill, 60-62; PSYCHOL. SERV. CHIEF, SPRING GROVE STATE HOSP, 62- Consult. psychologist, county ment. hyg. clins, State Dept. Health, Md, 56-65; Baltimore City Health Dept, 65- U.S.A, 44-46, Sgt. Psychol. Asn; Soc. Proj. Tech. Application of Milieu therapy principles to treatment of chronically mentally ill; training of clinical psychologists; psychotherapy. Publ: Personality dimensions associated with positive reactions to placebo. Address: 4521 Maryknoll Rd, Pikesville, Md. 21208.

ISAACSON, DR. HOWARD LAWRENCE, b. Jan. 11, 36; U.S. citizen; m. 62; c. 2. BUSINESS ADMINISTRATION. B.A, Harvard, 57, M.B.A, 59, D.B.A, 64. From res. asst. to res. assoc, bus. sch, Harvard, 59-61; mgr. res, Sperry & Hutchinson Co, 61-65, economist, 66-67; MGT. CONSULT, McKINSEY & CO, 67- Consult, President's Task Force War Against Poverty, 64. Am. Mkt. Asn; Nat. Asn. Bus. Econ; Asn. Pub. Opinion Res; Retail Res. Soc; Brit. Mkt. Res. Soc. Publ: Operating results of department and specialty stores, 1960, Harvard Bus. Sch, 61; Store choice, Nat. Retail Merchants Asn, 65. Address: McKinsey & Co, 245 Park Ave, New York, N.Y. 10017.

ISAACSON, DR. ROBERT L(EE), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

ISABELLE, PROF. LAURENT A, b. Lisieux, Sask, Aug. 22, 28; m. 57; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Ottawa (Ont), 50, B.Ed, 54, M.Ed, 56, Ph.D, 61. Guid. & placement officer, OTTAWA, 55-56, asst. prof. APTITUDE TESTING, SCH. PSYCHOL. & ED, 56-61, assoc. prof, 61-65, PROF, 65-, DIR GUID & PLACEMENT, UNIV, 56- secy, faculty psychol, Ottawa, 61-, mem. senate, 65- Can. Coun. fel, Teachers Col, Columbia, 64-65. Pres, Coun. Asns. Univ. Student Personnel Serv, Can, 64-66. Can. Psychol. Asn; Can. Asn. Profs. Ed; Can. Guid. & Counseling Asn. Educational and vocational guidance; prediction of academic achievement; techniques of psychological assessment and methodology of research; test development for French Canada. Publ: Inventaire de vos preférénces Fowler-Parmenter-Ottawa, Univ. Ottawa, 65; Self concept of the school counsellor, Guid. Worker, 67. Address: Faculty of Psychology, University of Ottawa, 75 Laurier Ave, E, Ottawa 2, Ont, Can.

ISAJIW, DR. WSEVOLOD W, b. Nov. 6, 33; U.S. citizen; m. 61; c. 3. SOCIOLOGY, ANTHROPOLOGY. B.A, La Salle Col, 55; M.A, Catholic Univ, 57, Ph.D.(sociol), 67. Instr. sociol, St. John's (N.Y), 60-63, ASST. PROF, 63-65; SOCIOL. & ANTHROP, WINDSOR, 65-, ACTING HEAD DEPT, 67- Sociol. Asn; Soc. Sci. Study Relig; Can. Sociol. & Anthrop. Asn. Sociological theory; metasociology; intergroup relations; urban research. Publ: Causation and functionalism in sociology, Routledge & Kegan Paul, 68; Pitirim Sorokin's sistema sotsiologii, Am. Cath. Sociol. Rev, Vol. 17, 4; Second generation immigrants in American society, Sucasnist, number 9, 64. Address: Dept. of Sociology & Anthropology, University of Windsor, Windsor, Ont, Can.

ISAKOFF, PROF. JACK F(EIN), b. New York, N.Y, Sept. 23, 10; m. 33; c. 1. POLITICAL SCIENCE. A.B, Western Reserve, 31; A.M, Ohio State, 32; Ph.D, Illinois, 37; LL.B, Lincoln Col. Law, 48. From asst. to instr, Illinois, 34-38; mem. res. staff, State Legis. Coun, Ill, 38-39, dir, 39-60; PROF. polit. sci. & chmn. dept, Western Reserve, 60-62; GOVT, SOUTHERN ILLINOIS, 62- Mem. staff, legis. surv. team, State Cmn. State Govt. Orgn, Conn, 49; dir. res, State Cmn. Study Govt, Ill, 49-51; vis. prof, Illinois, 57-58. Consult, Ill. Legis. Cmn. Munic. Revenue, 51-53; Chicago Home Rule Cmn, 54; Ohio Legis. Serv. Cmn, 56; State Legis. Coun, Ill, 60-; Loyola (Ill) Center Res. Urban Govt, 65-66. Pres, Nat. Legis. Conf, 60-61; mem, U.S. Census Adv. Cmt. State & Local Govt, 64-66; Ill. Cmn. Orgn. Gen. Assembly, 65-; chmn. Ill. Cmn. State Govt, 65-67. Polit. Sci. Asn; Soc. Pub. Admin; Bar Asn. Public administration; state government; legislative process; intergovernmental relations. Publ: The Public Works Administration. Address: Dept. of Government, Southern Illinois University, Carbondale, Ill. 62901.

ISARD, PROF. ELEANORE S(TERNBERG), b. Philadelphia, Pa, Feb. 27, 23; m. 41. PSYCHOLOGY. B.S, Temple, 51, M.A, 53, Ph.D.(psychol), 55. Home & sch. visitor, pupil personnel & counseling, Phila. Bd. Ed, 43-46, asst. to supvr, 46-49; asst, counseling & guid. clin, TEMPLE, 52-53, instr. PSYCHOL, 53-57, asst. prof, 57-62, assoc. prof, 62-67, PROF, 67-, DIR. UNIV. COUNSELING CENTER, 64- Psychol. Asn; Acad. Relig. & Ment. Health; Group Psychother. Asn. Multiple counseling theory, research and practice; intern training; problems of learning and adjustment of adolescents and adults. Address: Counseling Center, Temple University, Philadelphia, Pa. 19122.

ISARD, PROF. WALTER, b. Philadelphia, Pa, Apr. 19, 19; m. 42; c. 6. REGIONAL SCIENCE. A.B, Temple, 39; M.A, Harvard, 41, Soc. Sci. Res. Coun. fel, 42-43, Ph.D.(econ), 43. Instr. econ, Wesleyan, 45-46; vis. lectr, Tufts, 47-48; assoc. dir. teaching inst. & assoc. prof, American Univ, 48-49; res. fel, res. assoc. & lectr, Harvard, 49-53; assoc. prof. regional econ, Mass. Inst. Tech, 53-56, assoc. dir, sect. urban & regional studies, 53-55, dir, 55-56; PROF. ECON. & REGIONAL SCI, PENNSYLVANIA, 56-, CHMN. DEPT. REGIONAL SCI, 57-, PRES, REGIONAL SCI. RES. INST, 57- Consult, Tenn. Valley Authority, 51-52; Resources for Future, Inc, 54-56; Ford Found, 55. Econ. Asn; Sociol. Asn; Economet. Soc; Asn. Am. Geog; Regional Sci. Asn.(pres, 59). City planning; regional analysis; industrial location. Publ: Location and space economy; Methods of regional analysis; co-auth, Atomic power, an economic and social analysis. Address: 3218 Garrett Rd, Drexel Hill, Pa. 19026.

ISBELL, ELEANOR C(OLLINS), b. Columbia, Conn, Apr. 29, 04; m. 30. SOCIAL SCIENCE. A.B, Smith Col, 24; Yale, 31-32. Asst. engr, N.Y. Tel. Co. & N.J. Bell Tel. Co, 24-30; res. asst, inst. human rels, Yale, 31-39; study of Am. Negro, Carnegie Corp, 39-40; mem. staff, SOC. SCI. RES. COUN, 40-60, STAFF ASSOC, 61- Statist. Asn; Sociol. Asn; Pop. Asn. Population movements and industrialization in Swedish counties, 1895-1930. Address: Social Science Research Council, 230 Park Ave, New York, N.Y. 10017.

ISCH, DR. M(ARIA) JEFFRE, Psychol, see MARTINROE, DR. M(ARIA) JEFFRE.

ISCOE, DR. IRA, b. New York, N.Y, Feb. 1, 21; m. 51; c. 2. PSYCHOLOGY. B.A, Sir George Williams Col, 41; M.A, California, Los Angeles, 49, U.S. Pub. Health Serv. fel. & Ph.D.(psychol), 51. Asst. prof. PSYCHOL, TEXAS, 51-56, ASSOC. PROF, 56-, dir. grad. training in community ment. health, 66. Res. assoc, Harvard, 59-60. Psychologist, Austin Cerebral Palsy Center, 52- Consult, Hogg Found. Ment. Health, 52-; Vet. Admin, 52; Off. Econ. Opportunity, 64- Dipl, Am. Bd. Exam. Prfnl. Psychol, 56. U.S.A, 42-46. AAAS; Psychol. Asn; Asn. Ment. Deficiency. Psychopathology of childhood; personality development in college; community mental health; child clinical psychology. Publ: Co-auth, Divergent thinking, age, and intelligence in White and Negro children, 64 and Age, intelligence, and sex as variables in the conformity behavior of Negro and White children, 64, Child Develop, co-auth, Concept of crisis: current status and mental health implications, Human Orgn, 63. Address: Dept. of Psychology, Mezes Hall 211, University of Texas, Austin, Tex. 78712.

ISENSON, COL. RAYMOND S, Electronics, see 11th ed, Phys. & Biol. Vols.

ISHEE, DR. SIDNEY, b. Bay Springs, Miss, Oct. 28, 24. AGRICULTURAL ECONOMICS. B.S, Miss. State, 50; M.S, Pa. State, 52, Ph.D.(agr. econ), 57. From asst. prof. to PROF. AGR. ECON, MARYLAND, 56- U.S.N, 44-46. Econ. Asn; Economet. Soc; Agr. Econ. Asn. Address: Dept. of Agricultural Economics, University of Maryland, College Park, Md. 20742.

ISHERWOOD, DR. ROBERT M, Early Mod. European Cultural & Intellectual Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

ISHIKAWA, DR. MAMORU, b. Osaka, Japan, Dec. 31, 32; m. 61; c. 1. ECONOMICS. B.A, Milligan Col, 57; Ph.D.(econ), Vanderbilt, 66. Instr. ECON, Pittsburgh, 61-66, ASST. PROF, 66-68; CATHOLIC UNIV, 68- Sr. statistician, Tenn. Dept. Employment Security, 61-63. Econ. Asn; Economet. Soc. Econometrics; statistical methods; operations research and business decision making; mathematical economics. Publ: Relevance of structural hypotheses in long-term unemployment, Tenn. Dept. Employment Security, 67. Address: Dept. of Economics, Catholic University of America, Washington, D.C. 20017.

ISHINO, PROF. IWAO, b. San Diego, Calif, Mar. 10, 21; m. 44; c. 3. ANTHROPOLOGY. M.A, Harvard, 53, Ph.D.(anthrop), 54. Soc. sci. analyst, Off. War Info, 44-45; res. analyst, Japan Occup, 49-51; field assoc, Pac. Sci. Bd, Nat. Res. Coun, 51; res. assoc. sociol. & anthrop, Ohio State, 51-54, asst. prof. anthrop, 54-56; MICH. STATE, 56-58, assoc. prof, 58-62, PROF. SOCIOL. & ANTHROP, 62- Fulbright lectr, Japan, 58-59. Consult, U.S.

Mil. Govt, 51. Mem. Mich. State Univ. Adv. Group, U.S. Civil Admin, Ryukyu Islands, 63-65. U.S.A, 46-47. AAAS; fel. Anthrop. Asn; Sociol. Asn; Soc. Appl. Anthrop. Social and applied anthropology; ethnology of Japan. Publ: Co-auth, Paternalism in the Japanese economy, Univ. Minnesota, 63 & Social problems: dissensus and deviation in an industrial society, Oxford Univ, 64; auth, The Oyabun-Kobun, Am. Anthropologist. Address: Dept. of Anthropology, Michigan State University, East Lansing, Mich. 48823.

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ISHWARAN, PROF. KARIGIOUDAR, b. Hiremallur, India, Nov. 1, 22; m. 60; c. 3. SOCIOLOGY, SOCIAL ANTHROPOLOGY. Ph.D.(lit), Karnatak Univ, India, 54; B.Litt, Oxford, 56; M.S.S, Inst. Social Studies, Netherlands, 57; D.Litt.(sociol), Leiden, 59. Mem. faculty, J.G. Col. Commerce, Hubli, 47-52; J.G. Col. Commerce & S.K. Arts Col, Hubli, 52-53; prin, Sangameshwar Col, Sholapur, 53-54; Netherlands' Univs. Found. Int. Coop. res. fel, 56-59; reader & head dept. grad. studies soc. anthrop, Karnatak Univ, India, 59-62, univ. prof. & head dept. grad. studies soc. anthrop. & soc. welfare, 62-64; vis. prof. sociol. & anthrop, Memorial Univ, 64-65; PROF. SOCIOL, YORK (ONT), 65- Can. Coun. award, 66-68. Mem. cent. adv. cmt, Anthrop. Surv, Govt. India; anthrop. rev. cmt, Univ. Grants Cmn, New Delhi. Social change in developing countries; comparative institutions; sociology of economics; social linguistics. Publ: Family life in the Netherlands, Van Keulen, The Hague, 59; Tradition and economy in village India, Routledge & Kegan Paul, London & Humanities, 66; Shivapur—a south Indian village, Routledge & Kegan Paul, London, 67. Address: Dept. of Sociology, York University Faculty of Arts & Science, Toronto 12, Ont, Can.

ISKRANT, ALBERT (PATRICK), b. Oyster Bay, N.Y, Dec. 7, 09; m. 37; c. 3. ECONOMICS, STATISTICS. B.Sc, Nat. Univ. Ireland, 29; M.A, Catholic Univ, 41. Soc. sci. analyst statist, venereal disease div, U.S. PUB. HEALTH SERV, 37-42, pub. health analyst, 42-50, prin. statistician, chronic disease div, 50-54, chief statistician, div. spec. health serv, 54-57, CHIEF DEVELOP. RES, ACCIDENT PREV. DIV, 57- Fel. Pub. Health Asn; Statist. Asn. Extent and cost of disease and its distribution geographically and by other social characteristics; methods of prevention of disability and death due to disease; statistical methods of evaluation of health programs in industry and communities. Publ: Economic cost of paresis in the United States; Accidents and homicide, Harvard, 68; The epidemiologic approach to accident causation, Am. J. Pub. Health, 10/62. Address: 9527 E. Stanhope Rd, Kensington, Md. 20795.

ISLAM, PROF. A.K.M. AMINUL, b. Dacca, East Pakistan, Dec. 21, 34; m. 67; c. 1. ANTHROPOLOGY, LINGUISTICS. B.A, Dacca, 52, M.A, 54; Brit. Coun. fel, London, 59-61; Vincent Massey fel, Toronto, 62-64, M.A, 64; univ. fels, McGill, 64-67 & 66-68. Lectr. lang. & lit, Dacca Univ, 55-59; prin, Bhuapur Col, E.Pakistan, 62; instr. anthrop. & ling, Toronto, 62-64; ANTHROP, McGill, 64-66; ASST. PROF, St. Cloud State Col, 67; STATE UNIV. N.Y. PLATTSBURGH, 67- Asst. prof, Syracuse, summer 65. Mem, Ling. Res. Group of Pakistan, 65- Anthrop. Asn; Brit. Philol. Soc. Language and literature; linguistics and phonetics; social anthropology, especially anthropology of politics. Publ: Jasim-Uddin Kavi Kavya, Eden Press, Dacca, 55; Bangla shahitye Muslim Kavi o kavya, Book Stall, Dacca, 59; Some prosodic aspects of inter-word relations in Bengali, Pakistani Ling, 65. Address: State University of New York College at Plattsburgh, Plattsburgh, N.Y. 12901.

ISOM, W(ARREN) R(EX), Eng, see 11th ed, Phys. & Biol. Vols.

ISON, DR. JAMES RATCLIFFE, b. Essex, Eng, June 10, 35; U.S. citizen; m. 58; c. 3. PSYCHOLOGY. A.B, Michigan, 56, Ph.D.(psychol), 61. Rackham fel. PSYCHOL, Iowa, 60-61; asst. prof, Wisconsin, Milwaukee, 61-62; ROCHESTER, 62-66, ASSOC. PROF, 66-, DIR. EXP. TRAINING PROG, 67- Psychol. Asn; Psychonomic Soc; Behav. Pharmacol. Soc. Learning; motivation in animals. Publ: Co-auth, The effects of amobarbital sodium on differential instrumental conditioning and subsequent extinction, Psychopharmacologia, 67; Effects of partial reinforcement of discrimination learning and subsequent reversal or extinction, J. Exp. Psychol, 67; Effects of medial cortical lesions on appetitive instrumental conditioning, Physiol. & Behav, 67. Address: Dept. of Psychology, University of Rochester, Rochester, N.Y. 14627.

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ISRAEL, DR. HERMAN, b. New York, N.Y, Mar. 26, 30. SOCIOLOGY. B.A, City Col. New York, 56; A.M, Harvard, 58, Ph.D.(sociol), 62. Asst. prof. SOCIOL, Delaware, 62-66; ASSOC. PROF, STATE UNIV. N.Y. ALBANY, 66- Sociol. Asn. Relationships between social structure and culture, in continuity and change. Publ: Some influence of Hebraic culture on modern social organization, Am. J. Sociol, 1/66; A religious basis for solidarity in industrial society, Soc. Forces, 9/66; Some religious factors in the emergence of industrial society in England, Am. Sociol. Rev, 10/66. Address: Dept. of Sociology, State University of New York at Albany, Albany, N.Y. 12203.

ISRAELI, PROF. NATHAN, b. Williamsport, Pa, Aug. 19, 06; m. 40; c. 2. PSYCHOLOGY. B.S, City Col. New York, 26; Harvard, 26; M.A, Columbia, 27, Ph.D, 30; scholar, New Sch. Soc. Res, 37-38, M.Soc.Sci, 41; Maryland, 43, 45. Reader philos. & psychol, City Col. New York, 28-30; asst. prof. psychol, Maine, 30-31; mem. staff, Dept. Welfare, New York, 35-41; Soc. Security Bd, 41; ord, U.S. War Dept, 42; personnel classification div, U.S. Civil Serv. Cmn, 43-48; assoc. prof. PSYCHOL, LONG ISLAND, 48-56, PROF, 56- Res. asst, psychol. lab, Bethlehem Royal Hosp, Eng, 32-33; res. gifted children, Scottish Ed. Res. Coun, Scotland, 33; res. fel, Yale, 32; Soc. Sci. Res. Coun. fel, 32-33; vis. scholar, Columbia, 40-41, 52-55; lectr, City Col. New York, 49-50; res. grant, James McKeen Cattell Fund, 60. Fel. AAAS; fel. Psychol. Asn. Psychology of time; creative processes of artists. Publ: Abnormal personality and time; Group predictions of future events, & Set theory models for research concerning creative thinking and imagination, J. Gen. Psychol. Address: 1165 E. 54th St, Brooklyn, N.Y. 11234.

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ITTELSON, PROF. WILLIAM H, b. New York, N.Y, May 4, 20; m. 46; c. 1. PSYCHOLOGY. A.B, Columbia, 41, B.S, 42; M.S, Princeton, 48, Ph.D.(psychol), 50. Asst. prof. psychol, Princeton, 48-55; assoc. prof. PSYCHOL, BROOKLYN COL, 55-61, PROF. & CHMN. DEPT, 61- Fulbright lectr, Kyushu, Japan, 61-62. Res. consult, Vet. Admin. Hosp, East Orange, N.J, 53- U.S.N, 43-46, Lt. AAAS; Psychol. Asn. Perception and psychopathology. Publ: Ames demonstrations in perception; Visual space perception; co-auth, Perceptual changes in psychopathology. Address: 1585 Westervelt Ave, Baldwin, N.Y. 11510.

IULO, PROF. WILLIAM, b. Brooklyn, N.Y, Oct. 3, 27; m. 53. ECONOMICS, STATISTICS. B.B.A, City Col. New York, 51; M.A, Washington State, 53; Ph.D, Wisconsin, 57. Intel. officer, U.S. Govt, 53-54; instr. commerce, Wisconsin, 56-57; assoc. economist, WASHINGTON STATE, 57-66, ECONOMIST & PROF. ECON, 66- Economist, Fed. Power Cmn, 62-64, consult, 64- U.S.A, 45-47. Econ. Asn; Mkt. Asn; Statist. Asn; Regional Sci. Asn. Interrelationships between public utility economics and resource development. Publ: Natural gas in the Pacific Northwest; Electric utilities: costs and performance; contrib, Performance under regulation, Mich. State Univ, 68. Address: Bureau of Economic and Business Research, Washington State University, Pullman, Wash. 99163.

IVANOFF, DR. JOHN M(ICHAEL), b. Post Falls, Idaho, Feb. 23, 27; m. 51; c. 2. EDUCATIONAL PSYCHOLOGY, PSYCHOLOGICAL MEASUREMENTS. B.A, Gonzaga, 51, M.A, 56; Fulbright scholar, Glasgow, 51-52; Ed.D.(ed. psychol. & measurements), Nebraska, 59. Teacher, high sch, Wash, 52-56; instr. ed. psychol, Nebraska, 57-59, asst. prof, 59-60; ed, MARQUETTE, 60-63, ASSOC. PROF. & COORDINATOR ED. PSYCHOL, 63- Counseling psychologist, Vet. Admin, 61; United Asn. Retarded Children & Jewish Voc. Serv, Milwaukee, 66- U.S.N.R, 44-46. Personnel & Guid. Asn; Statist. Asn; Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Educational measurement and evaluation; educational and vocational counseling; research design; exceptional education and rehabilitation. Publ: Co-auth, Statistical methods in educational and psychological research, W.C. Brown, 65. Address: Dept. of Education, Marquette University, Milwaukee, Wis. 53233.

IVERSEN, PROF. LOTHAR IVER, b. New Holstein, Wis, Aug. 1, 05. FINANCE. B.A, Wisconsin, 27; M.A, Iowa, 40, Ph.D.(finance), 48. Clerk, for. dept, First Wis. Nat. Bank, 28-33; asst. exam, stabilization div, Wis. State Banking Dept, 34-35; asst. exam, seventh dist, Comptroller of the Currency, Ill, 35-39; asst. statist, Iowa, 39-41; instr. bus. admin, Idaho, 41-42; assoc. prof. FINANCE, Arkansas, 46-49; PROF, Montana State, 49-52; Arkansas, 53-54; La. Polytech, 55-58; Wis. State, Stevens Point, 58-59; WIS. STATE, OSHKOSH, 63- U.S.A. & U.S.A.A.F, 42-46, Maj. Econ. Asn. Publ: Montana and U.S. banks: a comparison of assets and liabilities, 1934-50, Regional Study 3, Bur. Bus. & Econ. Res, Montana State Univ, 5/52; Changes in equity structure and the relationship of equity structure to liabilities of banks in the U.S, 1935-1956, Dept. Res, La. Polytech. Inst, 6/59. Address: School of Business Administration, Wisconsin State University, Oshkosh, Wis. 54902.

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(psychol), 53. Instr. psychol, Pennsylvania, 50-52; res. psychologist, Am. Inst. Res, 52-54; asst. prof. PSYCHOL, ADELPHI, 54-59, assoc. prof, 59-65, PROF, 65-, CHMN. DEPT, 66- AAAS; Psychol. Asn; Statist. Asn; N.Y. Acad. Sci. Motivation; perception. Address: Dept. of Psychology, Adelphi University, Garden City, N.Y. 11530.

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IVES, DR. GEORGE ANTHONY, b. Newark, Eng, Aug. 28, 29; Can. citizen; m. 58; c. 3. PSYCHIATRY. M.B.Ch.B, Edinburgh, 52; D.P.M, London, 59. Supt. PSYCHIAT, Yorkton Psychiat. Centre, 61-66; asst. prof, MED. SCH, QUEEN'S (ONT), 66-67, ASSOC. PROF, 67- Fel, Royal Col. Physicians & Surgeons Can, 64. R.A.M.C, 53-55, Capt. Can. Psychiat. Asn; Can. Med. Asn. Social psychiatry, especially community psychiatric programmes and programming. Address: Dept. of Psychiatry, Queen's University Medical School, Kingston, Ont, Can.

IVES, PROF. JOSEPHINE PIEKARZ, b. Colchester, Conn, Feb. 14, 21; m. PSYCHOLOGY. B.S, Teachers Col. Conn, 43; Ed.M, Boston, 47; Ph.D, Chicago, 54. Teacher first grade, Conn, 43-46; asst. dir. ed. clin, Boston, 46-47; reading supvr. pub. schs, Conn, 47-49; diagnostician, reading clin, Chicago, 50-51, high sch. reading specialist, 51-52, asst. dir, 52-53; dir, South Carolina, 54-57; assoc. prof. ED.PSYCHOL, N.Y. UNIV, 57-67, PROF, 67- Summer vis. prof, Cornell, 57. AAAS; Psychol. Asn; N.Y. Acad. Sci. Thought processes involved in the process of reading; causes of reading failure; interrelationships of the language arts. Publ: Co-auth, Reading problems and problem readers, McKay, 63. Address: 2 Washington Square Village, New York, N.Y. 10012.

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IZAWA, DR. CHIZUKO, b. Tokushima, Japan, Apr. 15, 34. PSYCHOLOGY. B.A, Tokyo, 60; fel, Stanford, 61-62, M.A, 62, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, San Diego State Col, 65-68; STATE UNIV. N.Y. BUFFALO, 68- San Diego State Col. Found. res. grants, 65-67; Nat. Inst. Ment. Health res. grants, 66-68; res. fel, inst. human learning, California, Berkeley, 67-68. Am. Psychol. Asn; Psychonomic Soc; Psychomet. Soc; Japanese Psychol. Asn. Functions of reinforcements and tests in paired-associate learning; optimal programming of reinforcement-test sequences in paired-associate learning; stimulus sampling theory; stimulus fluctuation model; verbal learning. Publ: Reinforcement-test sequences in paired-associate learning, 66 & Mixed-versus unmixed-list designs in paired-associate learning, 67, Psychol. Reports; Function of test trials in paired-associate learning, J. Exp. Psychol, 67. Address: Dept. of Psychology, State University of New York, Buffalo, N.Y. 14214.

J

JABARA, DEAN FRANCIS DWIGHT, b. Cambridge, Kans, Oct. 13, 24; m. 56; c. 3. ACCOUNTING. B.S, Okla. State, 48; M.B.A, Northwestern, 49. Asst. prof. acct, WICHITA STATE, 49-54, assoc. prof, 54-59, prof, 59-62, head dept, 62-64, DEAN COL. BUS. ADMIN, 64- U.S.A, 43-46, 1st Sgt. Inst. Cert. Pub. Acct; Acct. Asn. Address: 6110 E. 11th, Wichita, Kans. 67208.

JABINE, THOMAS B(OYD), b. Brooklyn, N.Y, Jan. 26, 25; m. 50; c. 4. MATHEMATICAL STATISTICS. B.S. & M.S, Mass. Inst. Tech, 50. Math. statistician, pop. & transportation divs, U.S. Bur. Census, 50-55; anal. statistician, health & sanitation div, Int. Coop. Admin, U.S. Opers. Mission, Brazil, 55-57, sampling adv, pub. admin. div, 57-59; math. statistician, statist. res. div, U.S. Bur. Census, 60-63; sampling adv, U.S. Opers. Mission, Agency Int. Develop, Thailand, 63-65; math. statistician, center res. measurement methods, U.S. CENSUS BUR, 65-66, SPEC. ASST. TO DEP. DIR, 66- Constituent mem, Inter-Am. Statist. Inst, 63- U.S.N, 43-45, Lt.(jg). Fel. Statist. Asn. Sampling; survey design; agricultural statistics. Address: 3231 Worthington St. N.W, Washington, D.C. 20015.

JABLONSKI, PROF. LOUIS S(EBASTIAN), b. Milwaukee, Wis, Aug. 14, 14; m. 49; c. 9. ECONOMICS. A.B, Notre Dame, 42; summer, Fordham, 44; M.A, Marquette, 50. ASST. PROF. ECON, MARQUETTE, 48- Econ. Asn; Econ. Hist. Asn. American history; political science; labor economics. Address: 8447 W. Lisbon Ave, Milwaukee, Wis. 53222.

JABLOW, DR. JOSEPH, b. Brooklyn, N.Y, Aug. 20, 14; m. 47; c. 1. ANTHROPOLOGY. B.A, N.Y. Univ, 35; Ph.D.(anthrop), Columbia, 50. Asst. anthrop, Columbia, 38-39, 46-48, lectr, 49-50; SOCIOL. & ANTHROP, BROOKLYN COL, 47-49, instr, 50-57, asst. prof, 57-62, ASSOC. PROF, 62- Consult, Indian Claims, U.S. Dept. Justice, 58-59. Chief, UNESCO Tech. Assistance Mission, Liberia, 51-52. U.S.A.A.F, 43-46, Lt. Fel. AAAS; fel. Anthrop. Asn. North American Indian and African ethnology; ethnohistory. Publ: The Cheyenne in plains Indian trade relations, 1795-1840, Monogr. Am. Ethnol. Soc; Some aspects of technical assistance in Liberia, Trans. N.Y. Acad. Sci; Ethnohistory of the Ponca Indians. Address: Dept. of Anthropology, Brooklyn College, Brooklyn, N.Y. 11210.

JACHIMOWICZ, GEORGE A(LEXANDER), b. Kiev, Russia, Oct. 17, 18; nat; m. 46; c. 1. MARKETING, STATISTICS. B.A, N.Y. Univ, 51, M.A, 53. Asst. mkt. res. dir, B.T. Babbitt, N.Y, 53-56; mkt. analyst, Continental Can Co, 56; polymer chem. div, W.R. Grace & Co, 56-59; MKT. RES. MGR, chem. & plastics div, Food, Mach. & Chem. Corp, 59-62; MKT. DEPT, CHEM. DIV, GEN. MILLS, INC, 62- Polish Army, 39-47. Mkt. Asn; Chem. Mkt. Res. Asn. Business and social economics and statistics. Publ: Time series analysis with special application to the tin can industry. Address: General Mills, Inc, S. Kensington Rd, P.O. Box 191, Kankakee, Ill. 60901.

JACK, DR. ROBERT LEE, b. Flower, W.Va, Apr. 12, 30; m. 55; c. 1. AGRICULTURAL ECONOMICS. B.S, West Virginia, 57, M.S, 59; Ph.D.(agr. econ), Pa. State, 63. Poultry specialist, State Dept. Agr, W.Va, 50-52, 54; asst. agr. econ, West Virginia, 58-59, asst. county agent, 59-60; asst, Pa. State, 60-63; ASST. AGR. ECONOMIST, WEST VIRGINIA, 63- U.S.A, 52-54. Agr. Econ. Asn. Marketing of agricultural products, poultry, fruits and vegetables; consumer behavior. Publ: Co-auth, Some effects of price and income support programs on marginal farms, 61, auth, Promotion of nursery products: effects on sales and consumer attitudes, 65 & Marketing West Virginia strawberries in out-of-state markets, 66, W.Va. Agr. Exp. Sta. Address: Dept. of Agricultural Economics, Room 2008, Agricultural Sciences Bldg, West Virginia University, Morgantown, W.Va. 26506.

JACKENDOFF, DR. NATHANIEL, b. New York, N.Y, Feb. 24, 19; m. 43; c. 3. ECONOMICS, FINANCE. B.S.S, City Col. New York, 38; M.A, Illinois, 39, fel. & Ph.D.(econ), 48. ASST. PROF. econ, Washington & Jefferson Col, 48-50; ECON. & FINANCE, TEMPLE, 50-, CHMN. DEPT, 65- U.S.A.A.F, 43-45. Econ. Asn; Finance Asn. Financial structure and markets in the United States; financial analysis of business. Publ: Money, funds flows and economic policy; Ronald, 68. Address: Dept. of Finance, Temple University, Philadelphia, Pa. 19122.

JACKMAN, DR. A(BRAHAM) I(ZZAK), Psychiat, see 11th ed, Phys. & Biol. Vols.

JACKMAN, PROF. ALBERT H(AVENS), b. Rosedale, Kans, Feb. 15, 08; m. 46; c. 2. GEOGRAPHY. B.S, Princeton, 31; fel, Clark, 48-49, Ph.D, 53. Commanding officer, climatic res. lab, U.S. Army, 49, chief, field observation br, res. & eng. div, Off. Qm. Gen, 50-51, mil. liaison, 51-52, environ. br, 52-54, Qm. Corps, Japan, 54-56, dep. depot comdr, Drew Qm. Depot, 56, dep. chief, res. & eng. div, Off. Qm. Gen, 56-59; prof. mil. sci, WESTERN MICHIGAN, 59-62, asst. prof. GEOG, 62-63, assoc. prof, 63-64, PROF. & HEAD DEPT, 64- U.S.A, 31-62, Col. AAAS; Asn. Am. Geog; Geog. Soc; Arctic Inst. N.Am. Military geography; polar regions; stresses to men and equipment in arctic and mountain environments; arctic glaciation. Publ: Nature of military geography, Prfnl. Geogr. Address: 1405 Meadowbrook Lane, Kalamazoo, Mich. 49001.

JACKMAN, PROF. NORMAN R(ICHARD), b. San Diego, Calif, Oct. 21, 18; m. 46; c. 3. SOCIOLOGY. B.A, California, 47, B.L.S, 50, M.A, 53, Ph.D, 55. Librn. govt. documents, California, 50-53, asst. sociol, 53-55, instr. soc. welfare, & lectr. sociol, exten. div, 55-56; from asst. prof. to assoc. prof. sociol, Oklahoma, 56-65, asst. dir, inst. group rels, 58-60, sociologist & res. assoc, med. center, 60-65; PROF. SOCIOL, CALIF. STATE COL. HAYWARD, 65- Fulbright fel, Florence, 66-67. Consult, metab. ward study, Okla. Med. Res. Found. Hosp, 60- U.S.A.A.F, 41-45, Sgt. Fel. Sociol. Asn. Minority group relations and collective behavior. Publ: Survival in concentration camps, Human Orgn; co-auth, Group processes and communication on the prohibition issue, Sociol. & Soc. Res. & Negro youth and direct action, Phylon, spring 67. Address: Dept. of Sociology, California State College, Hayward, Calif. 94542.

JACKMAN, PROF. SYDNEY W, Eng. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JACKS, PROF. ROBERT WRIGHT, b. Hummelstown, Pa, Oct. 2, 09; m. 36. PSYCHOLOGY. B.S, Lebanon Valley Col, 30; M.S, Pa. State, 36, D.Ed, 43. Teacher, high sch, Pa, 30-36; supv. prin, Auburn Sch. Dist. Pa, 36-46; prof. psychol. & ed. & dean students, Moravian Col, 46-53; PROF. PSYCHOL, KUTZTOWN STATE COL, 53- U.S.A, 43-46, S/Sgt. AAAS. Developmental and educational psychology. Address: Dept. of Psychology, Kutztown State College, Kutztown, Pa. 19530.

JACKSON, DEAN ARTHUR F(ISHER), b. Brooklyn, N.Y, June 17, 14; m. 44; c. 3. GUIDANCE. B.S, Hampton Inst, 38; M.A, Columbia, 48, Ed.D.(guid), 52. Teacher, Christiansburg Inst, Va, 38-41; dir. recreation, City of Radford, Va, 41-42; counsr, high sch, Del, 50-52; dir. guid, A&T STATE, 52-65, DEAN SCH. ED. & GEN. STUDIES, 65- Summers, vis. prof, guid. inst, Va. State Col, 61; Illinois, 62. Consult, State In-Serv. Guid. Insts, Ga, 61; S.C, 62, summers, N.C. Col. Durham, 59-60. Mem. comput. adv. cmt, Bd. Higher Ed, N.C, 64- U.S.N, 42-45. Personnel & Guid. Asn. Predictive value of tests; mental retardation; self concept. Address: School of Education & General Studies, A&T State University, Greensboro, N.C. 27411.

JACKSON, DR. CECIL LEE, b. Monroe, Ga, July 6, 33. PSYCHOLOGY. A.B, Mercer, 64; M.A, Georgia, 61, Ph.D.(psychol), 64. Indust. psychologist, Am. Tel. & Tel, 64-66; prof. & col. adminstr, Kennesaw Jr. Col, 66-67; ASSOC. PROF. PSYCHOL. & HEAD DEPT, N.GA. COL, 67- U.S.A, 56-58. Psychol. Asn. Individual differences, especially intelligence; factorial analysis. Address: Dept. of Psychology, North Georgia College, Dahlonega, Ga. 30533.

JACKSON, C(HARLES) DONALD, b. Amber, N.Y, Feb. 16, 95; m. 31; c. 3. ECONOMICS. B.S, Northwestern, 20, M.B.A, 21; A.M, Harvard, 25. Mem. staff, bur. agr. econ, U.S. Dept. Agr, 23-24, head taxation & pub. finance sect, 31-40, economist in charge econ. anal. sect, mkt. div, surplus mkt. admin, 41-42, chief wartime mkt. probs. div, prog. anal. & appraisal br, war food admin, 42-45, res. div, fats & oils br, prod. & mkt. admin, 45-54, mkt. res. div, agr. mkt. serv, 54-61, agr. economist in charge, West. Res. Off, mkt. econ. div, Econ. Res. Serv, 61-65; RETIRED. With Iraq Ministry Finance, 53; vol, VISTA Migrant Opportunity Prog, 65-66. Med.Dept, U.S.A, 17-18. Econ. Asn; Agr. Econ. Asn; Agr. Hist. Soc. Agricultural marketing, taxation, practical research operation and employee development. Publ: The farmers' tax problem; Graphic summary of farm taxation; Economics of sugarbeet marketing. Address: 224 Lake Dr, Berkeley, Calif. 94708.

JACKSON, PROF. CHARLES G(ENSS), b. Pittsburgh, Pa, Aug. 22, 30; m. 55; c. 2. POLITICAL SCIENCE. B.A, Westminster Col.(Pa), 52; M.A, North Carolina, 58. Asst. prof. soc. sci, Presby. Jr. Col. Men, 58-60; ASSOC. PROF. POLIT. SCI, BLOOMSBURG STATE COL, 60- Polit. Sci. Asn. Publ: The Manoa company, Inter-Am. Econ. Affairs, 60. Address: R.D. 1, Bloomsburg, Pa. 17815.

JACKSON, DICK L, b. Randolph, Utah, May 13, 18; m. 43; c. 5. ECONOMICS, STATISTICS. B.S, Utah State Agr. Col, 48; M.S, Minnesota, 47. Res. analyst, West. Hwy. Inst, Calif, 50; dir. statist. & anal. div, mil. sea transport serv, U.S. DEPT. NAVY, 50-54, 54-56, head anal. br, 54, DIR. PROG. REPORTS & STATIST. DIV, NAVY COMPTROLLER, 56- U.S.A.A.F, 43-45, Sgt. Statist. Asn. Military economics and management statistics, especially weapons cost systems analysis. Address: 1101 Ingleside Ave, McLean, Va. 22101.

JACKSON, PROF. DOUGLAS E(WING), b. Madisonville, Ky, July 4, 19; m. 40; c. 2. SOCIOLOGY OF RELIGION. A.B, Asbury Col, 40; B.D, Garrett Theol. Sem, 45, Morava fel, 46; A.M. Northwestern, 46, Ph.D, 55. Asst. prof. sociol. & soc. ethics, Candler Sch. Theol, Emory, 48-54; PROF. SOCIOL. OF RELIG, PERKINS SCH. THEOL, SOUTHERN METHODIST, 54- Danforth Found. grad. coun. humanities fel, 62-63; Am. Asn. Theol. Schs. faculty fel, 67-68. Alumni distinguished faculty award, Southern Methodist, 66. Sociol. Asn; Soc. Sci. Study Relig. Urban sociology; Negro ecology and culture. Publ: Downtown church; Stumblingblock. Address: Perkins School of Theology, Southern Methodist University, Dallas, Tex. 75222.

JACKSON, PROF. DOUGLAS N(ORTHROP), JR, b. Merrick, N.Y, Aug. 14, 29. PSYCHOLOGY. B.S, Cornell, 51; M.S, Purdue, 52, Ph.D.(psychol), 55. Intern psychol, Vet. Admin, 51-55; U.S. Pub. Health Serv. fel, Menninger Found, 55-56; asst. prof. PSYCHOL, Pa. State, 56-61, assoc. prof, 61-62; U.S. Pub. Health Serv. spec. res. fel, Stanford, 62-63, vis. assoc. prof, 63-64; SR. PROF, WESTERN ONTARIO, 64- Asst, Menninger Found, 52-53; lectr, Indiana, 53-54; summer vis. scientist, Air Force Off. Sci. Res. & Develop, New Mexico, 58. Consult, Vet. Admin, 57-60; Ed. Testing Serv, N.J, 60- AAAS; Psychol. Asn; Psychomet. Soc; Soc. Multivariate & Exp. Psychol; Can. Psychol. Asn. Personality theory and assessment; attitude measurement; perception; psychological scaling; measurement of abilities; measurement problems in social psychology. Publ: Co-ed, Problems in human assessment, McGraw, 67; co-auth, Content and style in personality assessment, Psychol. Bull; Social intelligence and accuracy of interpersonal predictions, J. Personality. Address: Dept. of Psychology, University of Western Ontario, London, Ont, Can.

JACKSON, ELMORE, b. Marengo, Ohio, Apr. 9, 10; m. 34; c. 2. POLITICAL SCIENCE. B.A, Pacific Col, 31; B.D, Yale, 34, univ. fel, 35-36. Asst. secy, soc-indust. sect, Am. Friends Serv. Cmt, Pa, 36-40, personnel dir, 40-46, asst. exec. secy, 46-48, dir, Quaker Prog. at UN, Am. Friends Serv. Cmt. & Friends World Cmt, 48-52, 53-61; spec. asst. for. policy planning, U.S. Dept. State, 61-65; V.PRES. POLICY STUDIES, UN ASN. OF U.S.A, 66- Lectr, Haverford Col, 51-54; personal asst. & polit. officer, UN Rep. for India & Pakistan, UN, 52-53, consult, 53-54, spec. adv, 58; univ. seminar assoc, Columbia, 53- Consult, U.S. Dept. State, 66- Mem, Coun. For. Rels. Polit. Sci. Asn. Policy planning for the United Nations and its system of agencies and for regional organizations; conflict management and resolution. Publ: The United States and the Soviet Union, Yale. 49; Meeting of minds, McGraw, 52; Developing role of the secretary-general, Int. Orgn, 7/57. Address: Sutton House, 415 E. 52nd St, New York, N.Y. 10022.

JACKSON, DR. ELTON F(ENDER), b. St. Louis, Mo, Dec. 16, 32; m. 53; c. 3. SOCIOLOGY. A.B, Indiana, 54; M.A, Michigan, 58, Soc. Sci. Res.Coun. fel, 59-60, Ph.D.(sociol), 60. Instr. SOCIOL, Yale, 60-62, asst. prof, 62-64; ASSOC. PROF, INDIANA, 64- Nat. Sci. Found. sr. fel, 66-67. U.S.A, 54-56, 1st Lt. Sociol. Asn. Social stratification; statistical analysis; mathematical models. Publ: Multiple indicators in survey research, Am. J. Sociol, 9/62; Occupational mobility in the United States, 2/64 & Status and symptoms of stress: additive and interaction effects, 8/65, Am. Sociol. Rev. Address: Dept. of Sociology, College of Arts & Sciences, Graduate School, Indiana University, Bloomington, Ind. 47401.

JACKSON, PROF. FRANK H(ARRY), b. Fayetteville, Ark, Jan. 13, 24; m. 48; c. 4. ECONOMICS. B.S, Georgetown, 48; M.A, Arkansas, 51, Ph.D.(econ), 57. Assoc. prof. econ, Drury Col, 54-57; asst. prof, Fla. State, 57-59; assoc. economist, econ. res. center, Hawaii, 59-61; assoc. prof, ECON, ALMA COL, 61-66, PROF, 66-, DEAN SOC. SCI, 67- Summers, Econ. in Action fel, Case, 57, Found. Econ. Ed. fel, 58. U.S.A, 43-46. Econ. Asn. History of economic thought. Publ: Co-auth, Intermediate national income and growth theory; Political aspects of export taxation, Pub. Finance; Economics in literature, Duquesne Rev. Address: Dept. of Economics, Alma College, Alma, Mich. 48801.

JACKSON, PROF. J(ACOB) HUGH, Bus. Admin, Econ, see 10th ed, Soc. & Behav. Vols, deceased 62.

JACKSON, DR. JACQUELYNE (JOHNSON), b. Winston-Salem, N.C, Feb. 24, 32; m; c. 1. SOCIOLOGY. B.S, Wisconsin, 53, M.S, 55; John Hay Whitney fel, Ohio State, 57-59, Ph.D.(sociol), 60. Asst. prof. sociol, Southern Univ, 59-60, assoc. prof, 60-62; prof. & chmn. dept, Jackson State Col, 62-64; asst. prof, Howard, 64-66; FEL. & INSTR. MED. SOCIOL, CENTER STUDY AGING & HUMAN DEVELOP, DUKE MED. CENTER, 66-, INSTR, 67- Nat. Sci. Found. grant, summer inst. anthrop, Univ. Colorado, 61. Consult, Macon County Community Action Prog, Ala, 65-66; Coop. Res. Br, Off. Ed, Dept. Health, Ed, & Welfare, 65- Sociol. Asn; Geront. Soc. Leadership, technique and goal aspects of Negro civil rights and protest organizations and movements; social aspects of aging processes, emphasizing the Negro aged. Publ: These rights they seek, Pub. Affairs, 62; Standard operational

procedures in tragic situations, Phylon, 61; Social gerontology and the Negro aged: a review, Gerontologist, 67. Address: Box 8522, Durham, N.C. 27707.

JACKSON, PROF. JAMES R, b. Los Angeles, Calif, May 16, 24. APPLIED MATHEMATICS, BUSINESS ADMINISTRATION. B.A, California, Los Angeles, 46, M.A, 50, Atomic Energy Cmn. fel, 51-52, Ph.D.(math), 52. Asst. math, CALIFORNIA, LOS ANGELES, 49-51, from jr. res. mathematician to ASSOC. MATHEMATICIAN, 52-, PROF. BUS. ADMIN, 63-, V.CHMN. DEPT. BUS. ADMIN, 68-, 65-67, assoc. prof, 55-63, dir. mgt. sci. res. proj, 55-59, West. Mgt. Sci. Inst, 59-65, chmn. dept. bus. admin, 67. U.S.A.A.F, 43-46. AAAS; Math. Soc; Soc. Indust. & Appl. Math; Opers. Res. Soc; Inst. Mgt. Sci. Management science as a substantive field and as an area of applied mathematics. Address: Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

JACKSON, DR. JAMES ROY, b. Troy, Mo, Aug. 14, 92; m. 17; c. 2. ECONOMICS, FINANCE. B.Ped, Cent. State Teachers Col, Mo, 16; Ph.B, Chicago, 23, M.A, 24, Ph.D.(econ), 27. Head dept. pub. admin, Evansville Col, 26-28; dept. finance, St. Louis, 28-42; dept. indust. admin, U.S. AIR FORCE INST. TECH, 48-56, dean SCH. BUS, 56-58, EMER. DEAN, 58- Dir. Invest. Anal. Bur, St. Louis, Mo, 32- Consult, 28-48. U.S.A.A.F, 17, 42-45, Maj. Econ. Asn. Common versus preferred stocks; investment planning; economic education. Publ: Comparison of common and preferred stocks; Investment letter, Invest. Anal. Bur. Weekly; Land of the free. Address: R.R.1, Wentzville, Mo. 63385.

JACKSON, PROF. JAY M(ERVIN), b. Hamilton, Ont, Apr. 9, 16; m. 50; c. 3. SOCIAL PSYCHOLOGY. B.A, McGill, 48, M.A, 50; Ph.D.(soc. psychol), Michigan, 53. Asst, McGill, 48-50; res. center group dynamics, Michigan, 50-52, res. assoc, 52-53, asst. prof. psychol. & asst. prog. dir, 53-58, lectr, 52-55; prof. psychol. & dir. grad. training prog. soc. psychol, Kansas, 58-63; PROF. SOCIOL, OREGON, 63- Staff mem, Nat. Training Lab. Group Develop, 50, 53; Pac. Northwest Training Lab, 55; mem. planning seminar adv. training soc. res, Ford Found, 53; vis. lectr, spec. prog. group dynamics, sch. speech, Northwestern, 55; mem. training faculty, workshop faculty & admin, Hanover Col, 58. Consult, Am. Col. Hosp. Adminstrs, 53-; State Dept. Ment. Health, Mich, 54-; Nat. Sci. Adv. Bd, U.S. Air Force, 56; Esso Standard Oil Co, 58-; Vet. Admin, 59-; Credit Union Nat. Asn, 60; State Dept. Instns, Kans, 60- R.C.A.F, 41-45. AAAS; Psychol. Asn; Sociol. Asn. Person-group relations; communication in organizations; organizational authority structure; human relations training. Publ: Co-auth, Structural characteristics of norms, In: Dynamics of instructional groups; auth, Stability of Guilford-Zimmerman personality measures, J. Appl. Psychol; co-auth, Leader-member interaction in management committees, J. Abnorm. & Soc. Psychol. Address: Dept. of Sociology, University of Oregon, Eugene, Ore. 97403.

JACKSON, DR. JOAN K(ATHERINE), b. Parkhill, Can, Sept. 24, 22; nat; m. 46. SOCIOLOGY. B.A, McGill, 45, M.A, 47; fel, Washington (Seattle), 51-54, Ph.D.(sociol), 55. Asst. sociol, McGill, 44-45, 47-51; res. instr. psychiat, Washington (Seattle), 55-57, res. asst. prof. sociol. in psychiat, 58-61, res. assoc. prof, 61-64; RETIRED. Consult, Firland Sanatorium, Seattle, 54-64; Univ. Washington Hosp, 61-64, jr. consult, Vet. Admin. Hosp, 61-64, spec. consult, Nat. Inst. Ment. Health, Nat. Insts. Health, 61-64. Mem. adv. bd. alcoholism, State Health Dept, Wash. Sociol. Asn; Soc. Appl. Anthrop. Alcoholism and its associated problems; medical sociology and education. Publ: Co-auth, The skid road alcoholic, Quart. J. Studies on Alcohol; Alcoholism and the family, In: Society, culture and drinking patterns; Some aspects of the sanatorium adjustment difficulties of white male skid road alcoholic tuberculous patients, In Personality, stress and tuberculosis. Address: 309 St. Ronan St, New Haven, Conn. 06511.

JACKSON, PROF. JOHN N, b. Nottingham, Eng, July 15, 25; m. 51; c. 3. GEOGRAPHY, REGIONAL PLANNING. B.A, Birmingham, 49; Ph.D.(planning), Manchester, 60. Res. officer regional planning, County of Herefordshire, Eng, 50-53; sr. planning asst, City of Hull, 54-56; Lectr. town & country planning, Manchester, 56-65; PROF. APPL. GEOG, BROCK, 65- Vis. assoc. prof, British Columbia, 62-63. Planning consult, 60- R.N, 43-46. Town Planning Inst. Can; Brit. Town Planning Inst. Urban development and the regional use of resources, including shopping hinterland studies; recreation; highways and land use; industrial location. Publ: Surveys for town and country planning, Hutchinson Univ. Library, 61; co-auth, Regional shopping centers in northwestern England, Univ. Manchester, 64; dir. & co-auth, A submission to the Niagara region local government review, Brock, 66. Address: Dept. of Geography, Brock University, St. Catharines, Ont, Can.

JACKSON, DR. JOSEPH S(TANLEY), b. Poland, Nov. 22, 08; nat; m. 45; c. 2. PSYCHOLOGY. B.S, Eastern Michigan, 33; M.A, Detroit, 39; Ph.D, Michigan, 44. Asst, PUB. SCH, DEARBORN, MICH, 38-42, DIR. DEPT. TESTING & INSTR. RES, 46- U.S.N, 42-45, Lt.(jg). Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement Ed. Educational psychology; curriculum development. Publ: Relative effectiveness of paper-pencil tests, interviews and ratings as techniques for personality evaluation, J. Soc. Psychol; Analysis of a team teaching and self-contained home room experiment, J. Exp. Ed, summer 64; Experiment with a programmed technique of teaching English, J. Psychol, 1/67. Address: 1020 Mayburn St, Dearborn, Mich. 48128.

JACKSON, PROF. KATHLEEN C(ONDICT), Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

JACKSON, DR. KENNETH T(ERRY), Am. Hist, Urban Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JACKSON, DR. MAURICE, b. Cincinnati, Ohio, Aug. 5, 25; m. 57; c. 2. SOCIOLOGY. Ph.D.(sociol), California, Los Angeles, 66. Lectr. & asst. prof. SOCIOL, San Diego State Col, 62-64; lectr, Oregon, 64-65; from lectr. to ASST. PROF, CALIFORNIA, RIVERSIDE, 65- U.S.A.A.F, 43-45. Sociol. Asn. Social psychology; ethnic groups; urban sociology. Address: Dept. of Sociology, University of California, Riverside, Calif. 92502.

JACKSON, DR. PATRICIA LEE, b. New York, N.Y, May 6, 16; m. 42; PSYCHOLOGY. Ph.D.(guid, personnel), Columbia, 50. Dir. psychol. testing, Macy's, N.Y, 41-49; employ. mgr, Alexander's Dept. Stores, Inc, 49-52; asst. prof, guid. bur, HUNTER COL, 51-60, asst. prof. ED, 60-66, ASSOC. PROF, 66-, COORDINATOR, COUNSELING SERV, 60- Asst. v.pres. & res. dir, Klein Inst. Aptitude Testing, Inc, 53-59. Private practice, 61- AAAS; Psychol. Asn; Psychomet. Soc; Personnel & Guid. Asn. Psychological testing for employment selection; psychotherapy. Publ: Employee testing for retail stores. Address: 127 E. 35th St, New York, N.Y. 10016.

JACKSON, PENROSE B, b. San Angelo, Tex, Sept. 11, 22; m. 47; c. 2. POLITICAL SCIENCE, PUBLIC FINANCE. B.A, Park Col, 48; M.A, Wisconsin, 50; fel, Texas, 52-53. Res. assoc, inst. govt. res, Fla. State, 53-56, asst. prof. & dir, 56-60; PLANNING SPECIALIST, ED. FINANCE, U.S. OFF. ED, 60- Consult, state & local agencies, Fla, 56-60. U.S.A.F, 42-60, 50-51, Sgt. Polit. Sci. Asn; Soc. Pub. Admin. Public administration, especially organization and fiscal policy; public finance, intergovernmental fiscal relations; trends and projections of income and expenditure patterns of education system. Publ: Education in the seventies; Analysis of education expenditures; Federal funds for education, 59, 60. Address: Dept. of Health, Education & Welfare, U.S. Office of Education, Washington, D.C. 20202.

JACKSON, PROF. PHILIP W(ESLEY), b. Vineland, N.J, Dec. 2, 28; m. 48; c. 1. PSYCHOLOGY. B.S, N.J. State Teachers Col, Glassboro, 50; M.A, Temple, 52; fel, Columbia, 52-54, Ph.D.(ed. psychol), 55. Instr. ed. psychol, Wayne, 54-55; asst. prof, CHICAGO, 55-59, assoc. prof, 59-62, PROF. ED. & HUMAN DEVELOP, 62- Fel, Center Adv. Study Behav. Sci, 62-63. U.S.N, 47-48. AAAS; Psychol. Asn; Soc. Res. Child Develop. Child development; classroom behavior. Publ: Co-auth, Creativity and intelligence, Wiley, 62; auth, Life in classrooms, Holt, 68; The teacher and the machine, Univ. Pittsburgh, 68. Address: Judd Hall, 5835 Kimbark St, Chicago, Ill. 60637.

JACKSON, DR. ROBERT J, b. Leamington, Can, May 29, 36; m. POLITICAL SCIENCE. B.A, Western Ontario, 60, M.A, 62; D.Phil.(polit. sci), Oxford, 66. Asst. prof. COMP. POLIT, Carleton (Can), 64-68; ASSOC. PROF, McGILL, 68- Can. Coun. fel, 66- Publ: Rebels and whips: an analysis of dissension, discipline and cohesion in British parties, Macmillan, 68. Address: Dept. of Political Science, McGill University, Montreal, Que, Can.

JACKSON, PROF. ROBERT M(ORTON), b. Milwaukee, Wis, Aug. 29, 29; m. 51; c. 4. COUNSELING. B.S, Wisconsin, 51, M.S, 53, Ph.D, 59. Guid. dir, high sch, Wis, 53-56; asst. prof. PSYCHOL, WIS. STATE, LA CROSSE, 57-59, assoc. prof, 59-61, PROF. & CHMN. DEPT, 61-, co-dir, psycho-ed. clin, 65- Consult, pub. schs, Wis, 66- Psychol. Asn; Personnel & Guid. Asn. Incidence and causes of underachievement; early identification and diagnosis of learning problems; follow-up studies of economically and culturally impoverished. Publ: Comparative study of the mailed questionnaire and the interview in follow-up studies, Personnel & Guid. J; Results of early identification and guidance of underachievers, U.S. Off. Ed, 66; In support of the concept of underachievement, Personnel & Guid. J.(in press). Address: Dept. of Psychology, Wisconsin State University, La Crosse, Wis. 54601.

JACKSON, DR. STANLEY W(EBBER), b. Montreal, Que, Nov. 17, 20; m. 46. PSYCHIATRY, HISTORY OF SCIENCE & MEDICINE. B.Com, McGill, 41, M.D, C.M, 50. Intern, Royal Victoria Hosp, Montreal, 50-51; resident psychiat, Prov. Ment. Hosp, Essondale, B.C, 51-52; Pinel Hosp, Seattle, Wash, 52-54, staff psychiatrist, 54-56, acting med. dir, 56-57; psychiatrist & psychoanalyst, 57-64; Nat. Inst. Ment. Health spec. fel. hist. sci. & med, YALE, 64-66, ASST. PROF. PSYCHIAT. & HIST. SCI. & MED, 66- Psychiat. consult. & supvr, King County Hosp, Seattle, Wash, 58-60; Community Psychiat. Clin, 56-63; Vet. Admin. Hosp, 61-64; Yale Psychiat. Inst, New Haven, Conn, 66- R.C.A.F, 41-45, Flying Officer. AAAS; Am. Psychiat. Asn; Am. Psychoanal. Asn; Hist. Sci. Soc; Am. Med. Asn; Asn. Hist. Med; Can. Psychiat. Asn; Int. Psychoanal. Asn. Psychotherapy with schizophrenics; psychoanalysis; history of general psychiatry and psychoanalysis. Publ: the etiology of schizophrenia, McGill Med. J, Vol. 19, No. 1; Subjective experiences and the concept of energy, Perspectives in Biology & Med, Vol. 10, No. 4; The history of Freud's concept of regression, J. Am. Psychoanal. Asn, 68. Address: Yale University School of Medicine, 333 Cedar St, New Haven, Conn. 06510.

JACKSON, DR. THEODORE A(NDREW), b. Muncie, Ind, Nov. 17, 01; m. 36; c. 4. PSYCHOLOGY. A.B, Indiana, 25, A.M, 26; Ph.D.(psychol), Columbia, 31. Exten. instr. psychol, City Col. New York, 30-31; vis. asst. prof, N.Y. Univ, 31-32; Nat. Res. Coun. fel, Yale, 32-34; instr. psychol, Columbia, 34-42; asst. prof. psychol. & dir. psychol. clin, Indiana, 42-43; asst. prof. psychol, Delaware, 43-44; staff psychologist, Stevenson & Kellogg, Ont, 44-45; consult, Stevenson, Jordan & Harrison, N.Y, 45-46, 50-62; dir. psychol. serv, Case & Co, Inc, New York, 62-67; INDUST. PSYCHOLOGIST, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Executive selection and development; human relations in industry; attitude surveys. Address: Harwood Bldg, Room 407, Scarsdale, N.Y. 10583.

JACKSON, DR. VICTOR A(LONZO), b. Nichols, S.C, Dec. 22, 05; m. 53. PSYCHOLOGY. B.A, Furman, 25; Ph.D.(psychol), Chicago, 52. Teacher, pub. schs, S.C, 25-42; CLIN. PSYCHOLOGIST, MENT. HYG. CLIN. SERV, WEST-SIDE VET. ADMIN. HOSP, 47- U.S.A, 42-45. Projective techniques; psychotherapy; factor analysis. Address: 1524 E. 59th St, Chicago, Ill. 60637.

JACKSON, PROF. W(ILLIAM) A(RTHUR) DOUGLAS, b. Toronto, Ont, Nov. 25, 23. GEOGRAPHY. B.A, Toronto, 46, M.A, 49; Wisconsin, 48-49; Can. Soc. Sci. Res. Coun. fel, 51-52; Soc. Sci. Res. Coun. fel, Columbia, 52-53; Ph.D. (geog), Maryland, 53. From instr. to asst. prof. GEOG, Iowa, 53-55; asst. prof, WASHINGTON (SEATTLE), 55-58, assoc. prof, 58-60, PROF, 60- Ford Found. fel, Soviet & East European Studies Prog, 54-55; Inter-Univ. Cmt. travel grant, U.S.S.R, 56, 59; Soc. Sci. Res. Coun. res. grant, 57, 61; res. fel, Russian Res. Center, Harvard, 58. Asn. Am. Geog; Geog. Soc; Asn. Asian Studies; Asn. Adv. Slavic Studies. Geography of the Soviet Union; agricultural and political geography. Publ: Russo-Chinese borderlands;

The Soviet Union; Politics and geographical relationships, Prentice-Hall, 63. Address: Dept. of Geography, University of Washington, Seattle, Wash. 98105.

JACKSON, PROF. WILLIAM EDWIN, b. Paris, Tenn, June 9, 24. SOCIOLOGY. A.B, Le Moyne Col.(Tenn), 47; M.A, Fisk, 49; M.S, Arkansas, 53; Danforth Found. fel, Boston, 55; econ. action fel. & cert, Case Inst. Tech, 59; fel. & cert, Carnegie Inst. Tech, 66. Prof. SOCIOL, Ark. Baptist Col, 49-53; ASSOC. PROF, LANE COL, 53-, HEAD DEPT. HIST, 66- Prof, Tenn. Agr. & Indust. State, 58-59; Nat. Sci. Found. fel. anthrop, Colorado, 65- Consult, State Dept. Ed, Tenn, 56-60. U.S.A, 41-46, Sgt. Sociol. Asn; Econ. Asn; Asn. Study Negro Life & Hist. Trends and voting patterns of the Negro citizens in Jackson, Tennessee; Negro tenant farmer and the National Farm Labor Union in Arkansas. Publ: Analysis of the affect of unionization of farmers morale. Address: 230 Oak Ave, Jackson, Tenn. 38301.

JACO, PROF. E. GARTLY, b. Memphis, Tenn, Oct. 5, 23; m. 47; c. 4. SOCIOLOGY. B.A, Texas, 49, M.A, 50; Ph.D.(sociol), Northwestern, 54. Res. asst, Northwestern, 50-52; res. assoc, Texas, 52, instr. sociol, 52-55, assoc. prof, med. br, 55-59; vis. assoc. prof, Western Reserve, res. assoc, sch. appl. soc. sci. & sch. dent, assoc, dept. psychiat. & fel, dept. surg, sch. med, 59-62; prof. & res. dir. hosp. admin, sch. pub. health, Minnesota, Minneapolis, 62-64, prof. & res. dir. pub. health & prof. sociol, univ, 64-66; PROF. SOCIOL. & CHMN. DEPT, CALIFORNIA, RIVERSIDE, 66- Russell Sage Found. grant med. sociol. prog, 55-56; U.S. Pub. Health Serv. & Hill Family Found. grants, 59-; dir. lab. socio-environ. studies, Cleveland Psychiat. Inst, 59-61; res. dir, Cuyahoga County Welfare Dept, 61-62. Consult, Bd. Tex. State Hosps. & Spec. Schs, 53-59; div. hosp. & med. facilities, U.S. Pub. Health Serv, 65-68, Nat. Communicable Disease Center, 66-; cmt. planning, Am. Hosp. Asn, 66-68. Ed-in-chief, J. Health & Human Behav, 59-66. Mem. soc. sci. adv. cmt, Nat. Tuberc. Asn, 65-; mem. res. adv. cmt, Calif. State Dept. Ment. Hyg, 67- U.S.A.A.F, 43-46, S/Sgt. AAAS; Psychol. Asn; fel. Pub. Health Asn; Gerontol. Soc; fel. Sociol. Asn; Soc. Study Social Probs; fel. Orthopsychiat. Asn; Pop. Asn. Medical sociology; social organization and disorganization; social psychology and gerontology. Publ: Patients, physicians and illness; sourcebook in behavioral science and medicine; Social epidemiology of mental disorders: a psychiatric survey of Texas; Twentieth century attitudes toward health and their effect on medicine, N.E. J. Med, 63. Address: Dept. of Sociology, University of California, Riverside, Calif. 92502.

JACOB, DR. CHARLES E, b. Detroit, Mich, June 5, 31; m. 61; c. 3. POLITICAL SCIENCE. A.B, Michigan, 53, M.A, 54; John L. Senior fel. & Ph.D. (govt), Cornell, 61. Asst. prof. POLIT. SCI, Vassar Col, 60-67, faculty fel, 66-67; ASSOC. PROF, RUTGERS, 67- U.S.A, 54-56. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; administrative behavior; organizational behavior. Publ: Policy and bureaucracy, Van Nostrand, 66; Leadership in the new deal: the administrative challenge, Prentice-Hall, 67; Limits of presidential leadership, S.Atlantic Quart, 63. Address: Dept. of Political Science, Rutgers, The State University, New Brunswick, N.J. 08903.

JACOB, PROF. HERBERT, b. Augsburg, Germany, Feb. 10, 33; nat. POLITICAL SCIENCE. A.B, Harvard, 54; Falk fel. & M.A, Yale, 55, Soc. Sci. Res. fel. & Ph.D.(polit. sci), 60. Instr. POLIT. SCI, Tulane, 60-62; asst. prof, WISCONSIN, 62-64, assoc. prof, 64-67, PROF, 67- Nat. Sci. Found. sci. faculty fel, 67-68. U.S.A, 55-57. Polit. Sci. Asn; Law & Society Asn. Political behavior on the American scene. Publ: German administration since Bismarck, Yale, 63; Justice in America, 65 & co-auth, Politics in the American states, 65, Little. Address: Dept. of Political Science, University of Wisconsin, North Hall, Madison, Wis. 53706.

JACOB, PROF. PHILIP E(RNEST), b. Istanbul, Turkey, July 12, 14; m. 35; c. 3. POLITICAL SCIENCE. A.B, Yale, 35; A.M, Pennsylvania, 39; Ph.D. (politics), Princeton, 41. Asst. prof. POLIT. SCI, PENNSYLVANIA, 45-48, assoc. prof, 48-54, PROF, 54-, DIR, INT. STUDIES VALUES IN POLITICS, 64- Lectr, Swarthmore Col, 45; Haverford Col, 48. Polit. Sci. Asn.(Roosevelt award, 53); Am. Soc. Int. Law; fel, Soc. Relig. in Higher Ed. Comparative cross-national research on political leadership and development; values and social motivation; international organizations and political integration; educational policy. Publ: Changing values in college; co-auth, Integration of political communities, Lippincott, 64; Dynamics of international organization, Dorsey, 65. Address: Dept. of Political Science, University of Pennsylvania, Philadelphia, Pa. 19104.

JACOB, DEAN ROBERT WILLIAM, b. Kirksville, Mo, May 29, 26; m. 47; c. 2. POLITICAL SCIENCE. B.A, Tarkio Col, 49; fel, Okla. State, 49-51, M.A, 51, fel, 55-58, Ed.D, 62. Asst. prof. polit. sci, CENT. METHODIST COL, 58-61, assoc. prof, 61-63, prof, 63-64, DEAN COL, 64- U.S.A.A.F, 44-46, Res, 53-, Capt. Hist. Asn; Polit. Sci. Asn. International control of narcotic drugs; secondary education bearings on student achievement in higher education courses in history and political science. Address: Office of the Dean, Central Methodist College, Fayette, Mo. 65248.

JACOB, DR. WALTER, b. Hoboken, N.J, Dec. 29, 08; m. 50; c. 6. EDUCATION, PHILOSOPHY. B.S, Columbia, 28, M.A, 30; Ph.D, N.Y. Univ, 34. Sch. adminstr, N.J, 26-46; dir, Training Sch, Vineland, 46-65; CHMN. ED. BD. TRAINING SCH. BULL, AM. INST. MENT. STUDIES, 46-; DIR. AM. INST. MENT. STUDIES, 65- Dir, Salvation Army, 34-37; YMCA, 32-37; Family Serv. Asn, 40-46. Consult, div. hosp. & med. facilities, U.S. Pub. Health Serv, 67- Pres, State Conf. Handicapped, N.J, 65-67. Mem, State Welfare Coun, N.J, 58-; Int. Coun. Except. Children. U.S.N.R, 42-45, Lt. Comdr. Fel. AAAS; Sociol. Asn; fel. Asn. Ment. Deficiency; Acad. Polit. & Soc. Sci; Ed. Res. Asn; Inst. Mgt. Sci. Delinquency; mental deficiency; public affairs. Publ: New hope for the retarded child. Address: Landis Ave. at Spring Rd, Vineland, N.J. 08360.

JACOBI, DR. J(OHN) E(DWARD), b. Mansfield, Ohio, Feb. 4, 07; m. 33; c. 2. SOCIOLOGY. A.B, Lehigh, 29; Rockefeller fel, 30-32; Ph.D.(sociol), N.Y. Univ, 33. Instr. sociol, Maryland, 36-40; asst. prof, Fla. State, 40-41; prof. sociol. & dean, Tusculum Col, 41-46; prof. sociol, Albright Col, 46-48; assoc. prof, Lehigh, 48-62; DIR. LOCAL AREA PROJ, MASS. CMT. CHILDREN & YOUTH, 62- Mem, Nat. YMCA Cmt. on Youth Prog, 60-67. Sociol. Asn. Community organization; juvenile delinquency; population. Publ: Co-ed, An introduction to the social sciences; auth, Meeting the needs of children and youth in Massachusetts communities, 68 & Meeting the needs of children and youth in a regional area, 68, Mass. Cmt. Children & Youth. Address: 28 Thurston Rd, Melrose, Mass. 02176.

JACOBINI, PROF. H(ORACE) B(OWMAN), b. Hays, Kans, May 6, 22; m. 44; c. 4. POLITICAL SCIENCE, INTERNATIONAL LAW. A.B, Ft. Hays Kans. State Col, 43, M.S, 47; fel, Kansas, 49-51, Ph.D.(polit. sci), 51. Asst. prof. polit. sci, The Citadel, 47-49; polit. sci. & hist, Alabama, 51-54; assoc. prof. polit. sci. & head dept, E.Cent. State Col, 54-55; vis. assoc. prof. pub. admin. & res. consult. from Univ. Michigan, inst. pub. admin, Philippines, Int. Coop. Admin, 55-56; asst. prof. polit. sci, Alabama, 56-57; assoc. prof, SOUTHERN ILLINOIS, 57-64, PROF. GOVT, 64- U.S.A, 43-46. Polit. Sci. Asn; Soc. Int. Law; Asn. Asian Studies. Publ: Study of the philosophy of international law as seen in works of Latin American writers; International law: a text; co-auth, Governmental services in the Philippines. Address: Dept. of Government, Southern Illinois University, Carbondale, Ill. 62901.

JACOBS, PROF. ABRAHAM, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

JACOBS, DR. ARTHUR T(HEODORE), b. Chicago, Ill, Aug. 19, 12; m. 37; c. 2. ECONOMICS. B.A, Wisconsin, 34, scholar, 34-35, M.A, 35; fels, Michigan, 38-40, Ph.D.(econ), 51. Asst. chief statistician, State Dept. Pub. Welfare, Wis, 35-38; res. assoc, Soc. Sci. Res. Coun, 39; economist, U.S. Bur. Budget, U.S. Employ. Serv. & War Manpower Cmn, 40-44; consult, Labor Rels. Asn, Ill, 44-45; dir. execs. labor serv, Nat. Foremen's Inst, 45-48; dir. budget & res, United Serv. New Americans, 48-49; assoc, N.Y. Asn. New Americans, 49-52; mgt. consult, Fedn. Jewish Philanthropies, New York, 52-53; exec. dir, Hebrew Immigrant Aid Soc, 53-54; dep. exec. dir, United Hias Serv, 54-55; admin. secy. & dir. admin, Union of Am. Hebrew Cong, 55-65; EXEC. V.PRES, JEWISH THEOL. SEM. AM, 65-, LECT. MGT, TEACHERS INST, 67- Consult, Jewish Braille Inst. Am, 64- Econ. Asn; Statist. Asn; Soc. Adv. Mgt; Indust. Rels. Res. Asn. Labor relations and personnel management; management engineering in non-profit organizations; migration. Publ: Interrelationships between unemployment compensation and relief; How to bargain collectively; How to train handicapped workers. Address: Tamarac Trail, Harrison, N.Y. 10528.

JACOBS, DR. BERNE L(EE), JR, b. Petoskey, Mich, Aug. 29, 31; m. 56. PSYCHOLOGY. B.A, Michigan, 53, fel, 53-56, M.A, 56, Rackham fel, 56-57, Ph.D.(psychol), 59. Asst. PSYCHOL, Michigan, 53-56, instr, 57-58; California, Santa Barbara, 58-60, asst. prof, 60-63; KALAMAZOO COL, 63-67, ASSOC. PROF, 67- Psychol. Asn. Learning; motivation; statistics. Address: Dept. of Psychology, Kalamazoo College, Kalamazoo, Mich. 49001.

JACOBS, PROF. CLYDE E(DWARD), b. Herington, Kans, Jan. 19, 25. POLITICAL SCIENCE. A.B, Kansas, 46; Rackham fel. & M.A, Michigan, 48, Ph.D.(polit. sci), 52. Instr. POLIT. SCI, CALIFORNIA, DAVIS, 52-54, asst. prof, 54-60, assoc. prof, 60-63, PROF, 63-, chmn. dept. 60-66, acting dir, inst. govt. affairs, 62. Polit. Sci. Asn. Constitutional law; political theory; American national government. Publ: Law-writers and the courts; Justice Frankfurter and civil liberties; co-auth, The selective service act, Dodd, 67. Address: Dept. of Political Science, 227 Voorhies Hall, University of California, Davis, Calif. 95616.

JACOBS, PROF. DANIEL NORMAN, b. Irvin, Ky, July 5, 25; m. 59; c. 3. POLITICAL SCIENCE. A.B, Harvard, 49; M.A, Yale, 51; cert. Russian Inst. & M.A, Columbia, 53, Ph.D, 58. Lectr. polit. sci, Hunter Col, 58-59; asst. prof, MIAMI (OHIO), 59-62, assoc. prof. GOVT, 62-65, PROF, 65- Vis. prof, Indiana, 66. Consult, Bur. Elem. & Sec. Ed, Dept. Health, Ed. & Welfare, Off. Ed, 67- U.S.A.A.F, 43-46, Sgt. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Russian and Eastern European studies; Mikhail Markovich Borodin: a political biography; comparative communist studies; relationship of political science to area studies. Publ: Ed, The new Communist Manifesto, Row-Peterson, 61, 2nd ed, 62, reprint, Harper, 62, 3rd ed, 65; The masks of Communism, Harper, 63; The new Communisms, Harper, 68. Address: Dept. of Government, Miami University, Oxford, Ohio 45056.

JACOBS, DAVID L(OYD) G(EORGE), Bus. Econ, see 10th ed, Soc. & Behav. Vols.

JACOBS, DR. DAVID WILLIAM, b. Newark, N.J, Mar. 16, 30; m. 53; c. 2. PSYCHOLOGY. B.A, N.Y. Univ, 53; M.A, New Sch. Soc. Res, 57, Ph.D. (psychol), 65. Rep, Soc. Security Admin, 53-57; instr. PSYCHOL, FAIRLEIGH DICKINSON, 57-64, asst. prof, 64-67, PROF, 67- Res. fel, Am. Mus. Natural Hist, 65-; Nat. Sci. Found. res. grants, 65- Res. consult, Nat. Inst. Ment. Health proj, N.Y. Univ, 66- AAAS; Psychol. Asn; Animal Behav. Soc. Animal behavior; sensory psychology. Publ: Co-auth, Acoustic intensity limens in the goldfish, 67 & Acoustic frequency limens in the goldfish, 67, Animal Behav. Address: Dept. of Psychology, Fairleigh Dickinson University, Teaneck, N.J. 07666.

JACOBS, PROF. DONALD P, b. Chicago, Ill, June 22, 27; m. 52; c. 3. ECONOMICS. B.A, Roosevelt, 49; M.A, Columbia, 51, Ph.D, 57. Tutor econ, City Col. New York, 55-57; asst. prof. FINANCE, GRAD. SCH. BUS. NORTHWESTERN, 57-60, assoc. prof, 60-65, PROF, 65- Mem. res. staff, Nat. Bur. Econ. Res, 52-57; sr. economist, banking & currency cmt, House of Rep, U.S. Cong, 63-64. Consult, Bankers Asn, Ill. U.S.N, 45-46. Econ. Asn; Economet. Soc; Finance Asn. Money and banking; consumer credit and business finance. Publ: Consumer installment credit conference on regulation; co-auth, Financial institutions, Irwin, 66; auth, Sources and cost of funds for large sales financial companies. Address: Graduate School of Business, Northwestern University, 339 E. Chicago Ave, Chicago, Ill. 60201.

JACOBS, DR. DURAND F(RANK), b. Ill, Sept. 28, 22; m. 49; c. 3. PSYCHOLOGY. B.S, Michigan, 47, M.S, 49; Ph.D.(psychol), Mich. State, 53. Psychologist, Wayne County Training Sch, 48-49; asst, Gov. Study Cmn. Deviated Criminal Sex Offenders, Mich, 50-51; chief, couns. psychol. servs, Vet. Ad-

min. Hosp, Marion, Ind, 53-57, couns. psychologist, training unit, 54-55, chief, psychol. servs, Hosp, Tomah, Wis, 57-60, res. psychologist, psychiat. eval. proj, Vet. Admin, Wash, D.C, 60-61, exec. officer, 61, CHIEF PSYCHOL. SERV, BRECKSVILLE VET. ADMIN. HOSP, OHIO, 61- Lectr, Indiana, 54-56; Wisconsin, 58-60, Catholic Univ, 61; Kent. State, 62-; assoc, Case Western Reserve, 65- Consult, 54- Mem, Comprehensive Ment. Health Planning Proj, Ohio, 65-67; Gov. Coun. Voc. Rehab, Ohio, 67- Citation, President's Cmt. Employ. Phys. Handicapped, 55. U.S.A, 42-46. Psychol. Asn; Nat. Rehab. Asn. Rehabilitation of the severely handicapped; problems of aging; application of learning techniques in rehabilitation. Publ: Effects of forced recall conditions on reporting of anxiety-provoking material, Am. Psychologist; Member-employee program as a therapeutic agent, J. Couns. Psychol; Selective perceptions of rehabilitation problems, J. Rehab. Address: 1314 Valley Park Dr, Brecksville, Ohio 44141.

JACOBS, DR. ELEANOR A, b. Royal Oak, Mich, Dec. 25, 23. CLINICAL PSYCHOLOGY. B.A, Buffalo, 49, M.A, 52, Ph.D, 55. Lectr. psychol. STATE UNIV. N.Y. BUFFALO. 50-68, CONSULT. CLIN. PSYCHOL, SCH. NURSING. 52-, CLIN. INSTR. SCH. MED. 66-; CLIN. PSYCHOLOGIST. RES. SECT. PSYCHOL. SERV. VET. ADMIN. HOSP. 67-, asst. chief clin. psychologist, 54-67. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 63. Psychol. Asn: Group Psychother. Asn. Personality dynamics. Publ: Group psychotherapy. In: Handbook for psychiatric residents. Address: Psychology Service, Veterans Administration Hospital, Buffalo, N.Y. 14215.

JACOBS, PROF. HARRY LEWIS, Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JACOBS, DR. HERBERT H(OWARD), b. Freeport, N.Y, Mar. 23, 23; m. 47; c. 4. MANAGEMENT. B.S, Cornell, 44; M.S, Columbia, 47, Ph.D.(mgt. eng), 55. Assoc. dir. utility mgt. workshop & nat. conf. indust. res. admin, Columbia, 53, asst. prof. indust. & mgt. eng, 53-56; v.pres, Dunlap & Assocs, Inc, 56-62; v.pres. res. & develop, HALLMARK CARDS, INC, 62-66, V.PRES. CORP. PLANNING & RES, 66- Consult. to Surgeon Gen, U.S. Publ Health Serv; accreditation cmt, Engrs. Coun. Prfnl. Develop, 68- Trustee, Univ. Missouri, Kansas City. U.S.N.R, 43-46. Opers. Res. Soc; Mgt. Asn; Inst. Indust. Eng: Inst. Mgt. Sci. Business and management planning: product research and development; operations research; chemical engineering: business, economic, marketing, accident and human factors research. Address: 3521 W. 87th St, Shawnee Mission, Kans. 66206.

JACOBS, DR. HERMAN, b. Brooklyn, N.Y, Dec. 5, 02; m. 29; c. 1. SOCIOLOGY. B.S, N.Y. Univ, 24: M.A, Columbia, 31, M.S.S, 33; Ed.D.(ed. & sociol), Wayne, 52. Exec. dir. Jewish Community House, N.Y, 27-30; Club & ed. dir, Young Men's Hebrew Asn, 30-34; asst. exec. secy, Young Men & Women Hebrew Asn, Bronx, N.Y, 34-36; exec. dir, Jewish Community Center, Detroit, Mich, 36-51; DIR, B'NAI B'RITH HILLEL FOUND, 53- Lectr. & prof. supvr, Wayne, 36-44; vis. asst. prof, Eastern Michigan, summer, 57. Mem, Acad. Cert. Soc. Workers. Sociol. Asn. Religious education; counseling; pastoral psychology. Address: 1429 Hill St, Ann Arbor, Mich. 48104.

JACOBS, DR. HORACE, b. Chatham, Ont, Sept. 23, 11; nat; m. 49; c. 4. INDUSTRIAL MANAGEMENT. INTERNATIONAL RELATIONS. B.A. Alberta, 35, M.A, 42; fel, 40-42; scholar, Utah, 47; Ph.D.(German), Southern California, 52. Instr. French & German, Alberta, 40-42; ed. specialist, Off. Mil. Govt, Germany, 45-47; instr. German & French, Utah, 47-49; lectr. German, Southern California, 49-51; chief ed. tech. pubs, Librascope, Inc, Gen. Precision Corp, 51-55; scientist & ed. tech. pubs. & info, Lockheed Missiles & Space Co, 55-59, opers. planning specialist, 59-60; staff scientist info. res, LOCKHEED-CALIF. CO. BURBANK, 60-61, MGR. SCI. & TECH. INFO. CENTER, 62- Trustee & secy, Longevity Found, 59-; mem. adv. bd, Pac. Aerospace Library, 60-, chmn, 63-64. AAAS: fel. Astronaut. Soc.(dir. pubs, 62-67, nat. dir, 65-67, pubs. mgr, 67-); Spec. Libraries Asn; Inst. Aeronaut. & Astronaut; fel. Brit. Interplanetary Soc. Technical information; international relations and promotion of greater world political unity, including exchange of students and teachers; Franco-German relations; English spelling reform; development of information storage and retrieval systems for aerospace; astronautics publications. Publ: Ed. Advances in the astronautical sciences; co-ed, Symposium on manned lunar flight; co-auth, Missile and space projects guide. Address: 5211 Calvin Ave, Tarzana, Calif. 91356.

JACOBS, DR. MARTIN E(DWARD), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

JACOBS, PROF. MELVILLE, b. New York, N.Y, July 3, 02; m. 31. ANTHROPOLOGY. A.B, City Col. New York, 22; A.M, Columbia, 23, Ph.D.(anthrop), 31. Teacher, pub. schs, N.Y, 22-27; assoc. ANTHROP, WASHINGTON (SEATTLE), 28-29, instr, 29-37, asst. prof, 37-45, assoc. prof, 45-52, PROF, 52- Vis. prof, Wisconsin, Milwaukee, 61-62. Adv. mem, Res. Cmt. Am. Indian Langs. Mem. expeds, Ore. & Wash, 26-39; Am. Folklore Soc. del, Am. Coun. Learned Socs, 66-69. Anthrop. Asn; Ethnol. Soc; Ling. Soc. American Indian languages; folklore and ethnography of northwestern American Indians. Publ: General anthropology, Barnes & Noble, 47; Content and style of an oral literature, Univ. Chicago, 59; Pattern in cultural anthropology, Dorsey, 64. Address: Dept. of Anthropology, University of Washington, Seattle, Wash. 98105.

JACOBS, PROF. MILTON, b. Braddock, Pa, Aug. 9, 20; m. 44; c. 2. CULTURAL ANTHROPOLOGY, SOCIAL PSYCHOLOGY. A.B, George Washington, 48, M.A, 50; Ph.D, Catholic Univ, 56. Aviation psychologist, U.S. Dept. Air Force, 50-51; res. assoc, HumRRO, George Washington, 51-54; soc. sci. analyst, U.S. Dept. Agr, 54-57; dir. res, Cushing & Nevell, 58-61; prof. res. & sr. res. scientist, spec. opers. res. off, American Univ, 61-63; lectr. sociol. & anthrop, Georgetown, 63-64; Maryland, 66; PROF. ANTHROP, STATE UNIV. N.Y. COL. NEW PALTZ, 66- Instr, north. extn, Virginia, 50-52; lectr, Catholic Univ, 54-57; City Col. New York, 58-61. Consult, Off. Secy. Defense, 66- Award, Am. Mkt. Asn, 57. U.S.A.A.F, 42-45. Anthrop. Asn; Ethnol. Soc; Soc. Appl. Anthrop. Culture change: applied and cultural anthropology; culture and personality. Publ: Study in culture change and stability: the Moroccan Jewess; co-auth, Study of urban communicators in Thailand, Soc. Forces, 12 66; Resettlement in Latin America, American Univ, 4/67. Address: Dept. of Anthropology, State University of New York College at New Paltz, New Paltz, N.Y. 12561.

JACOBS, PROF. NORMAN, b. New York, N.Y, Feb. 28, 24; m. 55; c. 2. SOCIOLOGY. Ph.D.(sociol), Harvard, 51. Sociologist, economist & civil affairs officer, Supreme Comdr. Allied Powers, Japan, 45-46; lectr. sociol. & eng, Taiwan Norm. Univ, China, 55-57; res. scientist, American Univ, 57-59; community develop. adv, Int. Coop. Admin, Iran, 59-61; from asst. prof. to PROF. sociol, Kansas, 61-65; SOCIOL. & ASIAN STUDIES, ILLINOIS, URBANA, 65- Fulbright prof, Prasarnmitr Col. & Thammasat Univ, Thailand, 65-66. U.S.A, 43-46, 1st Lt. Asn. Asian Studies; Indian Sociol. Soc. Asian and economic developmental sociology; comparative social institutions; social anthropology; sociology of religion; social theory. Publ: The sociology of development: Iran as an Asian case study, Praeger, 66; Origin of modern capitalism and eastern Asia; co-auth, Japanese coinage. Address: Dept. of Sociology, University of Illinois, Urbana, Ill. 61801.

JACOBS, DR. ROBERT, b. Murphysboro, Ill, July 16, 13; m. 39; c. 4. EDUCATIONAL PSYCHOLOGY. B.Ed, Southern Illinois, 35; M.A, Illinois, 40; Ed.D, Wayne State, 49. Teacher, pub. sch, Ill, 35-42; mem. personnel staff, Ford Motor Co, 45-46; asst. instr, Wayne State, 46-47; admin. asst, Ed. Records Bur, New York, 47-51; dir. counseling & prof. ed, Agr. & Mech. Col, Tex, 51-53; ed. measurements adv, U.S. Opers. Mission, Ethiopia, 54-55, dep. dir, coop. ed. prog, 55-56, regional ed. adv. Southeast Asia, Thailand, 56-58; chief Far East Prog. div, off. ed, Int. Coop. Admin, D.C, 58-60, chief, spec. projs. div, off. ed. serv, 60-61; dir. ed. serv, Off. Human Resources & Soc. Develop, Agency Int. Develop, 61-62; prof. ed. & dean int. serv. div, Southern Illinois, 62-66; REGIONAL ED. ADV, OFF. REGIONAL DEVELOP. AFFAIRS, U.S. EMBASSY, BANGKOK, 67- Exten. lectr, Rutgers, 48-51, 53-54; vis. prof, Arkansas; Alabama; George Washington; Univ. Addis Ababa. Consult, ed. progs, Agency Int. Develop, 62-66; Ford Found. consult, English Lang. Teaching Progs, Syria, 63, Nigeria, 64-66. Int. Coop. Admin. mem, Wash. Inter-agency Cmn. English Teaching Prog. Abroad; rep, Inter-agency Cmn. Develop. Plans, East-West Cultural Center, Hawaii; mem, Univ. Adv. Cmt. Ed. & World Affairs, 64-66; prog. adv. cmt, Ed. Records Bur, 65- Meritorious serv. citation, Int. Coop. Admin. U.S.A, 42-45. AAAS; fel. Psychol. Asn; Personnel & Guid. Asn; N.Y. Acad. Sci. Educational measurement; counseling and guidance. Publ: Introduction to testing and the use of test results; The inter-disciplinary approach to educational planning, Comp. Ed. J, 6/64; English language teaching in Nigeria, Ford Found, 10/66. Address: U.S. Embassy, APO San Francisco 96346.

JACOBS, COL. STANLEY E(VERS), U.S.A.(RET), b. Chicago, Ill, Dec. 15, 13; m. 42. PSYCHOLOGY. B.S, Northwestern, 36; M.A, Minnesota, 49, Ph.D. (psychol), 52. Classification & assignment officer, U.S. Army, 42-51, psychologist, 52-64; chief systs. analyst, St. Paul Med. Center, 65-66; DIR. MGT. ENG. DIV. AM. HOSP. ASN, CHICAGO, 66- U.S.A, 41-64. AAAS: fel. Psychol. Asn; Inst. Mgt. Sci. Tests and measurements; selection of personnel; industrial psychology; application of computers in hospitals; industrial engineering and operations research in hospitals. Publ: A computer technique for the allocation of military personnel to major commands, U.S. Army Opers. Res. Symp. Proc, Part I, Durham, N.C, 3/63; auth, Swiftly advancing technology taxes administrative know-how, 5/67 & co-auth, Age a factor in amount of nursing care given, AHA study shows, 5/68, Hospitals. Address: 805 Euclid Court, Highwood, Ill. 60040.

JACOBS, DR. STEVEN M(ICHAEL), Psychol, see 10th ed, Soc. & Behav. Vols.

JACOBS, DR. THOMAS OWEN, b. Mt. Juliet, Tenn, Dec. 12, 26; m. 55; c. 2. PSYCHOLOGY. A.B, Vanderbilt, 50, M.A, 54; Ph.D, Pittsburgh, 56. Asst. psychol, Am. Inst. Res, 52-53, res. assoc, 55-57; instr, Pittsburgh, 53-55; res. assoc, HUMRRO, GEORGE WASHINGTON, 57-59, res. scientist, 59-60, sr. scientist, 60-64, DIR. RES, 64- Psychol. Asn; Psychomet. Soc; Coun. Measurement in Ed. Small groups theory; learning theory; statistics; leadership and social learning theory. Publ: Basic problems in small unit leadership; co-auth, Predicting achievement in medical school: comparison of preclinical and clinical criteria, J. Appl. Psychol; Leadership in army platoons: study II. Address: P.O. Box 2086, Ft. Benning, Ga. 31905.

JACOBS, DR. VICTOR E(DWIN), b. Richmond, Mo, Sept. 17, 29; m. 55; c. 3. AGRICULTURAL ECONOMICS, ECONOMICS. B.S, Missouri, 51; M.S, Illinois, 58; Nat. Defense Ed. Act fel, Kansas State, 62-64, Ph.D.(econ), 68. Asst. agr. agent, Univ. Missouri, 52-53, assoc. agr. agent, 53-54, exten. soils specialist, 54-55; farm adv, Univ. Illinois, 56-58; exten. economist & sect. leader farm mgt, Kansas State, 58-65; ASSOC. PROF. AGR. ECON. & EXTEN. ECONOMIST, MISSOURI, 65- Agricultural economics with emphasis on farm management; theoretical analysis of and development of a theory of international trade as a cause of divergence in international rates of economic development. Address: Dept. of Agricultural Economics, University of Missouri, Columbia, Mo. 65201.

JACOBS, DR. WALTER D(ARNELL), b. Hobart, Okla, Mar. 11, 22. POLITICAL SCIENCE. B.S, Columbia, 55, cert, Russian Inst. & M.A, 56, Ford Found. fels, 59-61, Ph.D, 61. Exchange specialist, Library Cong, 56-57; res. scientist, spec. opers. res. off, American Univ, 59-61; asst. prof. POLIT. SCI, MARYLAND, 61-65, ASSOC. PROF, 65- Consult, Inst. Defense Anal, 66- U.S.A, 42-53, Res, 53-, Lt. Col. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Soviet politics, especially military affairs and their influence on political action. Publ: Co-auth, Modern governments, Van Nostrand, 3rd ed, 66; auth, Soviet government today, Allyn & Bacon, 68; Soviet operational art, Army. Address: 4502 Guilford Rd, College Park, Md. 20740.

JACOBS, PROF. WILBUR R, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JACOBSEN, ARTHUR D(ANIEL), b. Albert Lea, Minn, Mar. 3, 94; m. 19; c. 3. ECONOMICS, STATISTICS. A.B, Redlands, 17; scholar, Harvard, 17-18, A.M, 18; Stanford, 19; summers, Southern California, 19, 20, 39. Prof. soc. sci. & chmn. dept, Iowa Wesleyan Col, 19-20; instr. econ, Montana, 20-23; assoc. prof. econ. & bus. admin, Redlands, 23-46; assoc. prof. & chmn. sch. bus. & econ, Eastern New Mexico, 46-49; prof. econ. & bus. admin, Palos

Verdes Col, 49-50; statist. asst, Directorate Flight Safety res, Off. Dep. Inspector Gen, U.S Dept. Air Force, 51-60, statist. serv, Air Materiel Command, 60-61, Air Force Logistics Command, Norton Air Force Base, 61-66; RETIRED. Econ. Asn; Mkt. Asn; Soc. Adv. Mgt. Personnel administration. Address: 1996 Broadmoor Blvd, San Bernardino, Calif. 92404.

JACOBSEN, PROF. ELDON E(RNEST), b. Heber, Utah, Feb. 1, 20; m. 45. CLINICAL PSYCHOLOGY. M.S, Utah State, 43; Ph.D.(clin. psychol), Washington (Seattle), 55. Voc. counsr, Iowa, 46; psychologist, Utah State Indust. Sch, 46-47; instr. & voc. counsr, Utah State, 47; asst. prof. PSYCHOL, CENT. WASH. STATE COL, 50-55, assoc. prof, 55-59, PROF, 59-, chmn. dept, 62-66. Off. Voc. Rehab. grant, psychol. serv, Devereux Found, 67-68. Mem, Tech. Adv. Cmt. Res. Ed, Wash, 61-67. U.S.A, 43-46. AAAS; Personnel & Guid. Asn; Psychol. Asn. Assessment of personality and community mental health; social learning theory; projective and expressive techniques. Publ: Evaluation of certain tests in predicting mechanic learner achievement, Ed. & Psychol. Measurement; co-auth, Graphic representation of oral responses as a teaching device in a workshop for the study of group development, Group Develop. Series. Address: Dept. of Psychology, Central Washington State College, Ellensburg, Wash. 98926.

JACOBSEN, DR. F(REDERICK) M(ARIUS), JR, Chem. eng, see 11th ed, Phys. & Biol. Vols.

JACOBSEN, DR. GEORGE, b. Sept. 20, 12; Can. citizen; m. 38. PSYSICAL GEOGRAPHY. B.Sc, Vienna, 36; Zurich, 33-34; hon. D.Sc, McGill, 58. PRES, TOWER CO. LTD, 46-; PRES, ARCTIC CONSULTS, 46- Hon. lectr, McGill, 52-, chmn, Jacobsen-McGill Expeds, 59- Mem. Adv. Cmt. Geog. Res, 64-; Resources for Tomorrow Cmt, 65- AAAS; Arctic Inst. N.Am. (gov. & secy, 62-67); Can. Asn. Geog. Permafrost and frozen soils; geomorphology and economic geography of the Arctic. Publ: Co-auth, Jacobsen-McGill Expeditions Reports, McGill, 59-63, Geology of the Arctic, Univ. Alberta, 61 & The Arctic Basin, Arctic Inst. N.Am, 63. Address: 3440 Ontario Ave, Montreal, Que, Can.

JACOBSEN, DR. O(LE) IRVING, b. Dannebrog, Nebr, Apr. 2, 96; m. 28; c. 1. PSYCHOLOGY. B.Music, Nebraska, 24, B.Sc. 25; M.A, Chicago, 26; Ph.D, Iowa, 33. Dir. music, high sch, Elmhurst, Ill, 33-38; head depts. ed. & psychol, Shurtleff Col, 38-42; PSYCHOLOGIST, VOC. COUNSELING SERV. VET. ADMIN, 46- U.S.A, 42-46, Maj. Fel. Psychol. Asn; Rehab. Asn. Photographing eye-movements in reading, especially in reading music; measuring emotions while listening to music. Publ: Honor above all; The power of your mind, Prentice-Hall, 68; An analysis of eye-movements in reading vocal and instrumental music. Address: Veterans Administration Center, Wood, Wis. 53193.

JACOBSEN, PROF. PAUL S(MITH), b. Tekamah, Nebr, Oct. 28, 98. POLITICAL SCIENCE. Dipl, Nebr. State Teachers Col, 22; Th.B, North. Theol. Sem, 26; A.M, Colgate, 27; Ph.D, Iowa, 35. Instr. POLIT. SCI, COLGATE, 27-35, asst. prof, 35-40, assoc. prof, 40-43, prof. & chmn. dept, 43-64, EMER. PROF, 64- Mem. faculty, U.S. Army Univ.(France), 45-46; dir. Colgate-Wash. Study Proj, 35-; faculty mem, European Div, overseas proj, Univ. Maryland, 59-60. Mayor of Hamilton, 43-47. Polit. Sci. Asn; Soc. Pub. Admin; Arbit. Asn. Civic education; administration of a typical New York county; government and administration of New York State. Address: Dept. of Political Science, Colgate University, Hamilton, N.Y. 13346.

JACOBSEN, DR. RALPH B, b. Montrose, Colo, Dec. 2, 38; m. 61; c. 1. SOCIOLOGY. B.A, San Francisco State Col, 63; M.A. Oregon, 66, Ph.D.(sociol) 68. ASST. PROF. SOCIOL, ARIZONA, 67- U.S.A.F. 57-60. Sociol. Asn. Sociology of the family, especially intrafamilial socialization practices; methodology. Publ: Co-auth, The family and occupational choice: an annotated bibliography, 66 & Religion and occupational behavior: an annotated bibliography, 66, Univ. Oregon. Address: Dept. of Sociology, University of Arizona, Tucson, Ariz. 85721.

JACOBSEN, DR. WILLIAM H(ORTON), JR, Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

JACOBSOHN, DR. JOHN ARTHUR, b. Berlin, Germany, July 6, 37; U.S. citizen; m. 67. POLITICAL SCIENCE. B.A, Adelphi Col, 59; New Sch. Soc. Res, 60-61; scholar, Tufts, 61-62; Ph.D.(govt, polit), Maryland, 66. ASST. PROF. POLIT. SCI, WEST VIRGINIA, 65- AAAS; Polit. Sci. Asn; Latin Am. Studies Asn; Int. Studies Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. Government and politics of Bolivia and on Latin American nationalism. Address: Dept. of Political Science, West Virginia University, Morgantown, W.Va. 26506.

JACOBSON, PROF. ALBERT H(ERMAN), JR, Indust. Eng, see 11th ed, Phys. & Biol. Vols.

JACOBSON, DR. ALLAN, b. Providence, R.I, Apr. 19, 36; m. 64. EXPERIMENTAL PSYCHOLOGY. B.A, Michigan, 57, M.A, 60, Nat. Inst. Ment. Health fel, 60-61, Ph.D, 62. Res. assoc. prog. learning, Britannica Center, Palo Alto, Calif, 61-62; ASST. PROF. EXP. PSYCHOL, CALIFORNIA, LOS ANGELES, 63- Nat. Inst. Health fel, California, Berkeley, 62-63; Nat. Sci. Found. res. grant, 65-67. AAAS; Psychol. Asn. Biochemistry of memory of rats, fish and Planarians; behavior of lower organisms; operant and respondent conditioning; discrimination learning; secondary reinforcement; instinctive behavior. Address: Dept. of Psychology, University of California, 405 Hilgard Ave, Los Angeles, Calif. 90024.

JACOBSON, PROF. ALLVAR H(ILDING), b. Edgerton, Wis, Sept. 18, 11; m. 47; c. 2. SOCIOLOGY, ANTHROPOLOGY. B.S. & M.A, Miami (Ohio), 39; Ph.D.(sociol. & anthrop), Ohio State, 50. Asst. prof. sociol. & anthrop, Ohio, 50; vis. prof, California, Los Angeles, 50-51; res. assoc, personnel res. bd, res. found, Ohio State, 51-53; assoc. prof. sociol. & anthrop, Nevada, 54-55; res. dir. slum clearance, City of Columbus, Ohio, 55-58; vis. prof, Alberta, 59; res. assoc, State Dept. Ed, Ohio, 59-63; assoc. prof. SOCIOL. & ANTHROP, Wittenberg, 63-65; chmn. dept, Wright State, 65-67; PROF, CENTRAL STATE, 67- U.S.N, 42-46. AAAS; Sociol. Asn. Theory; methodology; social organization. Publ: Scale for measuring marital role attitudes, Am. Sociol. Rev; Conflict in marital roles, Wash. State Res. Bull. Address: 6218 Fairfield Pike, Route 1, Fairborn, Ohio 45324.

JACOBSON, DR. AVROHM, b. Toronto, Ont, July 12, 19; nat; m. 48; c. 3. PSYCHIATRY. B.A, Michigan, 41; M.D, Tulane, 44; Wash. Sch. Psychiat, 48-52; Wash-Baltimore Psychoanal. Inst, 48-52. House physician, Newark Beth Israel Hosp, 44-45; resident physician psychiat, Middletown State Hosp, N.Y, 45-46; fel, U.S. Pub. Health Serv, 48-49; instr, sch. med, Georgetown, 49-54; assoc. prof, N.Y. Med. Col, 57-60, prof. clin. psychiat, N.J. Col. Med. & Dent, 60-64; DIR. PSYCHIAT, JERSEY SHORE MED. CENTER, 63- Staff psychiatrist, St. Elizabeth Hosp, Wash, D.C, 49-52; consult, Tuberc. Preventorium for Children & Pollak Mem. Clinic, 53-; Vet. Admin, N.J, 55-; U.S. Army, 60-; consult. psychiatrist, U.S. Info. Serv, U.S. Dept. State, 59-60. Trustee, Ramney Sch. Found, 68- Councilman, Borough Interlaken, N.J. Chief psychiat. serv, 141st Gen. Hosp, Med.C, U.S.A, 46-47, 51-52. Fel. AAAS; fel. Psychiat. Asn; fel. Asn. Med. Psychoanal; Asn. Med. Asn; fel. Acad. Psychosom. Med; fel. Col. Physicians. Psychotherapy; education in psychotherapy. Publ: The failure of the community psychiatric clinic, Psychiat. Quart, 10/65; A critical look at the community psychiatric clinic, Am. J. Psychiat, 10/67. Address: 625 Bangs Ave, Asbury Park, N.J. 07712.

JACOBSON, PROF. D(ANIEL), b. Newark, N.J, Nov. 6, 23. GEOGRAPHY. A.B, N.J. State Teachers Col, 47; Clark; M.A, Columbia, 50; Ph.D.(geog), La. State, 54. Instr. geog, La. State, 51-52; Tulane, 52; Kentucky, 52-55, asst. prof, 55; instr, Brooklyn Col, 55-57; assoc. prof, Montclair State Col, 57-67; PROF. GEOG. & ED. & DIR. SOC. SCI. TEACHING INST, MICH. STATE, 67- U.S.A.A.F, 43-46. AAAS: Asn. Am. Geog; Geog. Soc; Anthrop. Asn. Cultural and historical geography; American Indians. Publ: Origins of the town of Newark & Pollution problem of the Passaic River, Proc, N.J. Hist. Soc; Origin of the Koasati community of Louisiana, Ethnohistory. Address: 1827 Mirabeau Dr, Okemos, Mich. 48864.

JACOBSON, PROF. EUGENE H(ENRY), b. Los Angeles, Calif, Oct. 28, 17. PSYCHOLOGY. A.B, California, Los Angeles, 40; M.S, Michigan, 48, Ph.D. (soc. psychol), 51. Asst. prog. dir, human rel. prog, inst. soc. res, Michigan, 51-55; assoc. prof. indust. soc. psychol, MICH. STATE, 55-60. PROF. PSYCHOL, 60-, res. assoc, Labor & Indust. Rels. Center, 56-60, asst. dean int. studies, 60-62, assoc. dean res, int. progrs, 62-67. Fulbright res. scholar, Oslo, 52-53; res. coordinator, Orgn. Comp. Soc. Res, Oslo, 52-53; chief div. appl. soc. sci, UNESCO, France, 57-59. Ed, Int. Directory Psychologists, Nat. Res. Coun, 55-58, 2nd ed, Int. Union Psychol. Sci, 60-66. Mem, chmn, cmt. soc. sci. & natural sci. & v.chmn, U.S. Nat. Cmn. for UNESCO, 60-66; secy-gen, Int. Union Psychol. Sci, 66-; mem. cmt. int. rels. in behav. sci, Nat. Res. Coun, 67- Dipl. Am. Bd. Exam. Prfnl. Psychol, 56. U.S.A, 42-46. Fel. AAAS; fel. Psychol. Asn. Industrial social psychology; cross-cultural research. Publ: Automation and the employee. Annals; co-ed, Cross-national research, a case study, J. Soc. Issues; co-auth, Methodology for the analysis of the structure of complex organizations. Am. Soc. Rev. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

JACOBSON, DR. FRANK N(ORMAN), b. Atlanta, Ga, Oct. 4, 23; m. 48; c. 2. PSYCHOLOGY. B.A, Missouri, 48; M.A, Mich. State, 51; Ph.D, Purdue, 53. Psychol. intern, Elgin State Hosp, Ill, 50-51; chief psychologist, Anna State Hosp, 53-55; ment. hyg. clin, Ohio State, 55-58; chief psychol. serv, div. ment. health, State Dept. Health, Idaho, 58-60; res. psychologist, Fed. Correctional Inst, Englewood, Colo, 60-62; PSYCHOLOGIST, OTERO COUNTY MENT. HEALTH CLIN, 62-; PROJ. DIR, ENGLEWOOD PUB. SCHS, 65- U.S.A, 43-46. Psychol. Asn. Consultation to public institutions. Address: 70 Reed St, Lakewood, Colo. 80226.

JACOBSON, DR. HARALD W(ILLIAM), b. Aalesund, Norway, Sept. 24, 10; U.S. citizen. POLITICAL SCIENCE. B.S, Northwestern, 33; M.A, Chicago, 35, fel, 37-38, Ph.D.(orientology), 38. Instr, N.Park Col, 39-42; with U.S. Govt, 46-51; chief, China Br, Off. Intel. Res, U.S. DEPT. STATE, 51-57, consul, Hong Kong, 57-62, Macau, 60-62, first secy, Am. Embassy, New Delhi, 62-65; DIR. OFF. ASIAN COMMUNIST AFFAIRS, 65- Am. Coun. Learned Socs. grant, 38-39. U.S.N, 42-46, Lt. Comdr. Oriental Soc. Central Asian studies; Chinese history and society; orientology. Address: 1250 Fourth St. S.W, Washington, D.C. 20024.

JACOBSON, PROF. HAROLD KARAN, b. Detroit, Mich, June 28, 29; m. 51; c. 3. INTERNATIONAL RELATIONS, POLITICAL SCIENCE. A.B, Michigan, 50; M.A, Yale, 52, Overbrook fel, 53-55, Ph.D.(int. rel), 55. Asst, Yale, 51-55; asst. prof. POLIT. SCI, Houston, 55-57; MICHIGAN, 57-61, assoc. prof, 61-65, PROF, 65-, res. assoc, law sch, 61-62. Vis. prof, Grad. Inst. Int. Studies, Switz, 65-66. Kent fel, Nat. Coun. Relig. Higher Ed; World Affairs Center fel, 59-60; grants,Rockefeller Found, 61-62, Soc. Sci. Res. Coun, 59, 64-66. Consult, Rand Corp, Calif, 62- U.S.A.R, 51-61, 1st Lt. Am. Polit. Sci. Asn; Int. Polit. Sci. Asn. International politics and organization; foreign policy. Publ: Ed, America's foreign policy, Random, 60 & 65; auth, The USSR and the UN's economic and social activities, Univ. Notre Dame, 63; co-auth, Diplomats, scientists and politicians, Univ. Michigan, 66. Address: Dept. of Political Science, University of Michigan, Ann Arbor, Mich. 48104.

JACOBSON, DR. JOAN, b. Hull, Iowa, Apr. 26, 24; div. SPEECH PATHOLOGY, AUDIOLOGY. M.A, Syracuse, 48; Ph.D.(speech path, audiol), 58; Illinois, 58-60; summer, Iowa, 62. Instr. speech, Syracuse, 47-51, res. asst. speech path. & audiol, 57-58; speech & hearing therapist, pub. schs, Mass, 51-57; asst. prof. speech, Eastern Illinois, 58-62; assoc. prof, ST. CLOUD STATE COL, 62-66, PROF. SPEECH PATH. & AUDIOL, 67- Mem, Governor's Adv. Cmt. for Hearing Impaired, 64-66; prfnl. adv. cmt, Nat. Soc. Easter Seal Crippled Children & Adults, 64-; subcmt. for certification of speech correctionists, State of Minn, 65-66; prfnl. adv. cmt, Ed. Pre-Sch. Deaf Children, Minn, 66- Speech & Hearing Asn. Language scaling for mentally retarded. Address: Psychological Services Center, St. Cloud State College, St. Cloud, Minn. 56301.

JACOBSON, DR. LEONARD I, b. New York, N.Y, Aug. 9, 40. PSYCHOLOGY. B.A, Brooklyn Col, 61; U.S. Pub. Health Serv. fel, State Univ. N.Y. Buffalo, 62-63, N.Y. State scholar, 62-66, Ph.D.(clin. psychol), 66. Trainee PSYCHOL, Vet. Admin. Hosp, Buffalo, N.Y, 64-66; ASST. PROF, MIAMI (FLA),

66- Nat. Sci. Found. & Univ. Miami res. grant, 66-68; Nat. Inst. Ment. Health, 67-68. AAAS; Psychol. Asn. Experimental research in personality and psychopathology; application of behavioral methods to problems in clinical psychology, learning, and cognitive processes. Publ: Need for approval, defensive denial, and sensitivity to cultural stereotypes, J. Personality, 12/66; co-auth, The relationship between role learning and mediated and nonmediated concept learning, Psychonomic Sci, 68. Address: Dept. of Psychology, University of Miami, Coral Gables, Fla. 33124.

JACOBSON, DR. PAUL H(AROLD), b. New York, N.Y, Feb. 9, 12; m. 34; c. 2. SOCIOLOGY. B.S, City Col. New York, 33; A.M, Columbia, 43, Ph.D. (sociol), 52. Statistician, Dept. Health, New York, 36-44; chief spec. studies requirement, Off. Qm. Gen, U.S. Dept. Army, 44-45; RES. ASSOC. POP. STATIST, ACTUARIAL DIV, METROP. LIFE INS. CO, 46- Consult, Pub. Health Conf. Records & Statist, 50-58. Mem. work group fertility & nuptiality statist, U.S. Bur. Census, 60. U.S.P.H.S.R, 45-46, Lt. Fel. Sociol. Asn; Statist. Asn; Pop. Asn; fel. Pub. Health Asn; Int. Union Sci. Study Pop. Marriage and divorce; demography; life expectancy. Publ: American marriage and divorce; Relative efficiency of the open and the confidential method of reporting causes of death, Am. J. Pub. Health; Relative power of three statistics for small sample destructive tests, J. Am. Statist. Asn. Address: Metropolitan Life Insurance Co, 1 Madison Ave, New York, N.Y. 10010.

JACOBSON, DR. SOL, b. Brooklyn, N.Y, Jan. 11, 08; m. 39; c. 2. ECONOMICS, LAW. B.S.S, City Col. New York, 30; LL.B, Columbia, 31; M.A, Brooklyn Col, 38; Ph.D, New Sch. Soc. Res, 60. Law partner, B.J. & S. Jacobson, 32-40; assoc. labor law, Louis Waldman, 40-42; regional economist, Off. Price Admin, 42-45; dir. dept. admin. law, Joseph Kantor & Co, 45-46; controller, Janshaw Fabrics, Inc, 46-51; div. economist, Off. Price Stabilization, 51-53; ASSOC. PROF. ECON, BROOKLYN COL, 53- Mem, Citizens Planning & Housing Coun. AAAS; Econ. Asn. Labor law and industrial relations; relationships of legal and economic disciplines. Publ: New York anti-injunction act and separation of powers, Am. Labor Legis. Rev; Price increases based on wage adjustments, J. Accountancy; Confidentiality of school records. Address: Dept. of Economics, Brooklyn College, Bedford Ave. & Ave. H, Brooklyn, N.Y. 11210.

JACOBUS, DR. GILBERT C(HESTER), b. South Orange, N.J, Aug. 9, 07; m. 30; c. 2. LAW. J.D, Georgetown, 50; M.B.A, N.Y. Univ, 35; B.Sc, Rutgers, 29. Asst. engr. pub. utility, N.J. Bell Tel. Co, 29-40; asst. chief br. planning, U.S. Army Gen. Staff, 46-48; spec. asst. mobilization planning, nat. security resources bd, Exec. Off. of President, 48-52; asst. dir. pub. affairs planning, Fed. Civil Defense Admin, 52-54; dir. instr, U.S. Army Mgt. Sch, 54-56; army logistics res, George Washington, 57-61, prof. pub. admin, 58-65, dir. mgt. res. group, 61-65; digital computer systs. adminstr, off. chief of staff, U.S. Army, 65-67; SPEC. ASST. SYSTS. DEVELOP. TO DIR. COAST & GEODETIC SURV, WASH. SCI. CENTER, ENVIRON. SCI. SERV. ADMIN, DEPT. COMMERCE, 67- Vis. lectr, grad. sch. pub. & int. affairs, Pittsburgh, 59-; prof. lectr, George Washington, 65- Govt. consult, 57-65; consult. on hosp. admin. & data systs, 63- Mem, Nat. Security Coun. Working Staff, 51. Prfnl. cert, Data Processing Mgt. Asn, 65. U.S.A, 40-46, Col. Management systems; technology of decision-making; financial management as related to federal government activities; long-range planning; programing for operations; automatic data processing. Publ: Why should management be interested in operations research?, Petrol. Eng; Satellites and astronautics: current developments in space law, Am. Bar Asn. J; Sorting sense from nonsense in hospital ADP programs, J. Am. Hosp. Asn, 8/67. Address: Coast & Geodetic Survey, Washington Science Center, Environmental Sciences Service Administration, Dept. of Commerce, Rockville, Md. 20852.

JACOBY, DR. ARTHUR P(HILLIPPE), b. Corning, N.Y, Feb. 27, 31; m. 60. SOCIOLOGY. B.A, Park Col, 52; Coun. Soc. Agencies fel. & Ph.D.(sociol), Rochester, 60. Instr. SOCIOL, Sweet Briar Col, 59-60, asst. prof, 60-61; Alberta, 61-65; ASSOC. PROF. & CHMN. DEPT, NORTH DAKOTA, 65- Sociol. Asn. Voluntary associations; family sociology. Publ: Co-auth, Instrumental and expressive voluntary associations, Sociol. & Soc. Res, 7/63; Some correlates of instrumental and expressive orientations to associational membership, Sociol. Inquiry, spring 65; Personal influence and primary relationships, Sociol. Quart, winter 66. Address: Dept. of Sociology & Anthropology, University of North Dakota, Grand Forks, N.Dak. 58201.

JACOBY, PROF. HAROLD S(TANLEY), b. Oakland, Calif, May 28, 07; m. 38; c. 3. SOCIOLOGY. A.B, Col. of Pacific, 28; A.M, Northwestern, 32; Ph.D, Pennsylvania, 37. Asst. prof. SOCIOL, UNIV. OF THE PACIFIC, 33-38, assoc. prof, 38-46, PROF, 46-, DEAN COL. LIB. ARTS, 62- Vis. prof, Yamaguchi, 56-57. With War Relocation Authority, Tule Lake & Chicago, 42-44; UNRRA, Egypt, Palestine & E. Africa, 44-46. Sociol. Asn. East Indians in the United States. Address: 1634 Princeton Ave, Stockton, Calif. 95204.

JACOBY, DEAN NEIL H(ERMAN), b. Dundurn, Sask, Sept. 19, 09. BUSINESS ECONOMICS. B.A, Saskatchewan, 30, LL.D, 50; Ph.D, Chicago, 38. Supvr. legal & res. divs, State Dept. Finance, Ill, 33-36; chmn, Sask. Taxation Cmn, 36; mgr. res. dept, Lawrence Stern & Co, 37; asst. prof. finance, Chicago, 38-40, assoc. prof, 40-42, prof, 42-45, secy, 42-45, v.pres, 45-48; PROF. BUS. ECON. & POLICY & DEAN GRAD. SCH. BUS. ADMIN, CALIFORNIA, LOS ANGELES, 48- Chmn. Emergency Relief Cmn, Ill, 39-40; mem. res. staff, financial res. prog, Nat. Bur. Econ. Res, 40-45; econ. advisor to Governor of Ill, 41; mem. res. adv. bd, Cmt. Econ. Develop, 42-; President's Coun. Econ. Adv, 53-55; spec. advisor on econ. develop, India, 55; U.S. rep, UN Econ. & Soc. Coun, 57. Econ. Asn; Finance Asn.(pres, 49); Royal Econ. Soc. Business economics, policy and finance. Publ: U.S. aid to Taiwan, Praeger, 67; European economics: East & West, World, 67; Can prosperity be sustained? Address: Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

JACOFF, DR. MICHAEL D, b. Brooklyn, N.Y, Jan. 7, 37; m. 60; c. 2. PHARMACY ADMINISTRATION. B.S, Columbia, 58; M.S, Purdue, 60, Ph.D. (pharm. admin), 61. Asst. prof. PHARM. ADMIN, RHODE ISLAND, 61-67, ASSOC. PROF, 67- Am. Found. Pharmaceut. Ed. fel, 60-61; Mead Johnson Labs, grant, 65-66; lectr, Am. Asn. Cols. Pharm-Nat. Sci. Found. vis. scientist prog, 66-; with Warner-Chilcott Labs, Warner-Lambert Pharmaceut. Co, 68-69. R.I. field dir, mkt. res. dept, Merck, Sharp & Dohme, Inc, 62-64; R.A. Gosselin & Co. Inc, 62-; Paul Kemptner & Co, Inc, 63-65. Mkt. Asn; Pharmaceut. Asn; Acad. Pharmaceut. Sci; Int. Pharmaceut. Fedn. Socio-economic forces affecting the role played by drug therapy in the achievement of higher standards of health care. Publ: Introducing pharmacy administration: a function of freshmen orientation, 5/67 & co-auth, A new dimension in pharmacy administration education, 5/68, Am. J. Pharm. Ed; auth, Innovations in drug sampling, J. Am. Pharmaceut. Asn, 6/68. Address: Fogarty Health Science Bldg, University of Rhode Island, Kingston, R.I. 02881.

JACQUES, DR. F(RANCOISE) P(ARDOS), b. Aix-en-Provence, France, Jan. 2, 32; m. 58. ECONOMICS. B.Law, Univ. Aix-Marseilles, 52; dipl, Paris, 55, Ph.D, 57; M.A, California, 56. Asst. transportation, California, 57, assoc, sch. bus. admin, 59; res. analyst, Stanford Res. Inst, 59; economist bus. & forecasting, int. div, Kaiser Aluminum & Chem. Corp, 60-65; analyst, Societe d'Economie of Mathematiques Appliquees, 65-66; PARTNER, ALLEN CONSULTS, 66- Econ. Asn. Economics of transportation; business long term forecasting and planning; finance. Address: 41, rue de Buzenval, 92-Saint-Cloud, France.

JACQUET, CONSTANT HERBERT, JR, b. Bridgeport, Conn, Dec. 3, 25; m. 49; c. 1. POLITICAL SCIENCE. B.S, Columbia, 49, M.A, 51. Res. assoc. missions & int. affairs, missionary res. library, Union Theol. Sem. (N.Y), 53-56; church & soc, bur. res. & surv, NAT. COUN. CHURCHES, 56-64, DIR. RES. LIBRARY, DEPT. RES, 64-, mem. gen. cmt, dept. int. affairs, 61-65. Seminar assoc, Columbia, 62. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Comparative politics; Latin American studies; church and social problems; economic and social development. Publ: Ed, Man amid change, 63 & Yearbook of American churches for 1967, 67, Nat. Coun. Churches; auth, Focus on Western Europe, Info. Serv, 57. Address: Dept. of Research, National Council of Churches, 475 Riverside Dr, New York, N.Y. 10027.

JADOS, PROF. STANLEY S, b. Gorlice, Poland, Feb. 16, 10; U.S. citizen; m. 42; c. 4. POLITICAL SCIENCE, HISTORY. Ph.B, DePaul, 40, A.M, 41; Ph.D.(polit. sci), Ottawa(Can), 52. From instr. to PROF. POLIT. SCI, DePAUL, 45- Part time transl-interpreter Slavic lang, U.S. Dept. Justice, 61-65. Oak Ridge Assoc. Univs. res. grant, 67. Intel.C, U.S.A, 42-44, Capt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Int. Law Asn. Soviet political and economic institutions; international law. Publ: Russian-American relations: Washington to Eisenhower, Catholic Univ, 65; The consulate of the sea: development of the law of the sea in the Mediterranean region 11-16th century, Columbia Univ, 68. Address: 1945 Kennicott Court, Des Plaines, Ill. 60018.

JAECH, J(OHN) L, b. Tacoma, Wash, Jan. 20, 29; m. 51; c. 6. STATISTICS. B.A, Washington (Seattle), 52, M.S, 53. Sr. statistician, Gen. Elec. Co, 53-63, consult. statistician, 63-66; MGR. STATIST, PAC. NORTHWEST LABS, BATTELLE MEM. INST, 66- Instr, grad. sch, Washington (Seattle), 59-Statist. Asn; Soc. Qual. Control. Applied statistics; industrial problems; education in statistical methodology. Publ: Contrib, J. Am. Statist. Asn; Technometrics; Indust. Qual. Control. Address: 414 Saint St, Richland, Wash. 99352.

JAFFA, PROF. HARRY VICTOR, b. New York, N.Y, Oct. 7, 18; m. 42; c. 3. POLITICAL SCIENCE. B.A, Yale, 39; Ph.D, New Sch. Soc. Res, 51. Asst. prof. polit. sci, Ohio State, 51-57, assoc. prof, 57-59, PROF, 59-64; POLIT. PHILOS, CLAREMONT MEN'S COL. & CLAREMONT GRAD. SCH. & GRAD. CENTER, 64- Polit. Sci. Asn. Publ: Thomism and Aristotelianism; Crisis of the house divided; Equality and liberty, Oxford Univ, 65. Address: Claremont Men's College, Claremont, Calif. 91711.

JAFFE, DR. ABRAM J, b. Chelsea, Mass, Feb. 28, 12; m. 39; c. 2. STATISTICS. A.B, Chicago, 35, A.M, 38, Ph.D.(sociol), 41. Statistician, U.S. War Dept, 42-45; U.S. Bur. Census, 39-42, 45-50; DIR. MANPOWER & POP. PROG, BUR. APPL. SOC. RES, COLUMBIA, 50- AAAS; Statist. Asn; Pop. Asn; Indust. Rels. Res. Asn; Int. Union Sci. Study Pop. Labor force analysis; demographic analysis; socio-economic development of underdeveloped areas. Publ: People, jobs and economic development; co-auth, Manpower resources and utilization, co-auth, Technology and jobs, Praeger, 68. Address: 314 Allaire Ave, Leonia, N.J. 07605.

JAFFE, DR. EUGENE DONALD, b. New York, N.Y, Jan. 9, 37; m. 65. MARKETING, ECONOMICS. B.S, Pennsylvania 58, Ph.D.(econ), 66; M.B.A, N.Y. Univ, 61. Teaching fel. MKT, Pennsylvania, 63-64, instr, 64-65; ASST. PROF, ST. JOHN'S (N.Y), 66- Mkt. Asn. Comparative market systems; marketing theory; international business. Publ: Cooperative marketing in Israel, Univ. Houston Bus. Rev, spring 67; A flow approach to comparative studies of marketing systems, In: Comparative management and marketing, Scott, 68. Address: Dept. of Marketing, St. John's University, Grand Central & Utopia Parkways, Jamaica, N.Y. 11432.

JAFFE, PROF. HAYM, b. Lithuania, July 29, 99; nat; m. 38; c. 1. STATISTICS. B.A, Temple, 29; M.A, Pennsylvania, 30, Ph.D.(philos), 32. Teacher, pub. schs, Pa, 29-43; financial statistician, U.S. Securities & Exchange Cmn, 43-47; assoc. prof. math, Pa. Mil. Col, 47-51; finance & statist, Drexel Inst, 51-60, prof. & head dept, 60-67; VIS. PROF. STATIST, TEMPLE, 67- Consult, 51- Mkt. Asn; Statist. Asn; Philos. Asn; Math. Soc. Statistical sampling and surveys; financial and stock market analysis; analysis of little business in Philadelphia; Negroes in business. Address: 806 Brighton St, Philadelphia, Pa. 19111.

JAFFE, JACOB M, b. New York, N.Y, Feb. 28, 16; m. 40; c. 2. PUBLIC ADMINISTRATION. B.A, Brooklyn Col, 36; M.P.A, N.Y. Univ, 43. Data collection specialist state & local govt. finances & employ, govts. div, U.S. BUR. CENSUS, 42-58, chief, data classification & res. br, 58-62, analyst, ADV. CMN. INTERGOVT. RELS, 62-63, SR. ANALYST, 63- U.S.A, 43-45. Soc.

Pub. Admin; Acad. Polit. & Soc. Sci. Governmental finance; intergovernmental relations; property taxation. Address: 1613 Tilton Dr, Silver Spring, Md. 20902.

JAFFE, DR. JEROME H(ERBERT), Psychopharmacol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

JAFFE, DR. JOHN, Econ, Acct, see 10th ed, Soc. & Behav. Vols.

JAFFÉ, PROF. WILLIAM, b. New York, N.Y, June 16, 98; m. 48; c. 3. ECONOMICS. B.A, City Col. New York, 18; M.A, Columbia, 19; Dr.(econ), Paris, 24. Asst, U.S. Govt. Inquiry, 18; hist, Columbia, 20-21, assoc. econ, Soc. Sci. Res. Coun, 26-28; tutor French & econ, City Col. New York, 24-25; Soc. Sci. Res. Coun. fel, 25-26; asst. prof. ECON, NORTHWESTERN, 28-38, assoc. prof, 38-56, prof, 56-66, EMER. PROF, 66- Fulbright award, France, 51-53, vis. prof, Algiers, 56; Fulbright prof, Genoa, Italy, 56-57; Guggenheim fel, 58-59; Ford faculty res. fel, 63-64; prin. investr, Nat. Sci. Found. grant, 65-69; vis. prof, Harvard, 67-68. Fel. AAAS; Econ. Asn; fel. Economet. Soc. Mathematical economic theory; history of economic analysis; life and works of Leon Walras. Publ: Translator, Walras's Elements of pure economics; ed, Correspondence of Leon Walras and related papers, 3 vols, N. Holland Pub. Co, 65; auth, Walras' theory of tatonnement, J. Polit. Econ, 2/67. Address: Dept. of Economics, Northwestern University, Evanston, Ill. 60201.

JAFFEE, DR. CABOT L, b. New York, N.Y, Dec. 28, 36; m. 58; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 57; Columbia, 59-61; Ph.D.(psychol), Fla. State, 64. Sch. psychologist, Gadsden County Bd. Pub. Instr, 63-64; personnel res. analyst, Am. Tel. & Tel. Co, 64-66; ASSOC. PROF. PSYCHOL, TENNESSEE, 66- NASA res. grant, 66- Consult, Oak Ridge Nat. Labs, 66-; Tenn. Valley Authority, 66-; Am. Oil Co, 67- Ed, Addison-Wesley seminar series, 67- U.S.A.F.R, 61-68. Psychol. Asn. Leadership selection; the parameters of leadership behavior. Publ: Problems in supervision, Addison-Wesley, 68; Sensory deprivation and rote memory learning, J. Psychol, 66; Conditioned leadership and expectancy of reward, J. Soc. Psychol, 68. Address: Dept. of Psychology, University of Tennessee, Knoxville, Tenn. 37919.

JAGODA, DR. HARRY M, b. New York, N.Y, June 2, 34. PSYCHOLOGY. B.A, Brooklyn Col, 57; Ph.D.(psychol), N.Y. Univ, 65. Asst. res. scientist, N.Y. Univ, 58-61, instr. psychol, 61-63; assoc. mem. tech. staff, Bell Tel. Labs, 63-64; instr. PSYCHOL, BROOKLYN COL, 64-66, ASST. PROF, 67- U.S.A, 53-55. AAAS; Psychol. Asn. Animal discrimination learning; animal behavior. Address: Dept. of Psychology, Brooklyn College, Brooklyn, N.Y.11210.

JAHN, PROF. JULIUS A(RMIN), b. Iowa, Jan. 11, 14. SOCIOLOGY. A.M, Minnesota, 42; Soc. Sci. Res. Coun. fel, Washington (Seattle), 47, Ph.D, 49. Instr. SOCIOL, Washington (Seattle), 46-49, asst. prof, 49-52, assoc. prof, Washington State, 52-54; res. assoc. Community Serv. Soc, 54-60; PROF. SOC. RES, PENNSYLVANIA, 60- Sociol. Asn; Statist. Asn; Acad. Cert. Soc. Workers. Social statistics; community sample surveys; measurement of utilization costs and effectiveness of health and welfare programs. Publ: Co-auth, Serving the aging: an experiment in social work and public health, Community Serv. Soc, New York, 64. Address: School of Social Work, University of Pennsylvania, 3701 Locust St, Philadelphia, Pa. 19104.

JAHNIGE, DR. THOMAS PAUL, b. Meriden, Conn, June 28, 38; m. 62; c. 2. POLITICAL SCIENCE, GOVERNMENT. B.A, Yale, 60; Ph.D.(govt), Claremont Grad. Sch, 65. ASST. PROF. GOVT, SMITH COL, 65- Am. Polit. Sci. Asn. congressional fel, 64-65. Polit. Sci. Asn; Law & Society Asn. Legislative and judicial behavior; government and science. Publ: Co-auth, The federal judicial system, Holt, 68; auth, The congressional committee system and the oversight of NASA, West Polit. Quart, 1/68. Address: Dept. of Government, Smith College, Northampton, Mass. 01060.

JAHNKE, DR. JOHN C(URTIS), b. Barrington, Ill, June 13, 29; m. 58; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Illinois, 51; A.M, Northwestern, 54, Ph.D.(psychol), 55. Instr. PSYCHOL, Indiana, southeast. center, 55-57; MIAMI (OHIO), 57-58, asst. prof, 58-63, ASSOC. PROF, 63- Nat. Inst. Ment. Health spec. res. fel, 67-68. AAAS; Psychol. Asn; Psychonomic Soc. Human learning and retention. Publ: Co-auth, Reminiscence and forgetting in motor learning after extended rest intervals, 56, Effects of intraserial repetition on short-term recognition and recall, 68 & auth, Delayed recall and the serial-position effect of short-term memory, 68, J. Exp. Psychol. Address: Dept. of Psychology, Miami University, Oxford, Ohio 45056.

JAIPAUL, DR. b. Quetta, Pakistan, Dec. 3, 27; m. 54; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Punjab, India, 50; Asia Found. fel, Nebraska, 57-58, res. fel, 57-61, M.A, 58; M.P.A, Minnesota, Minneapolis, 59, Ph.D.(polit. sci), 67. Pub. rels. officer, Cong. Party Parliament of India, 52-56; res. assoc, Fels Inst. Local & State Govt, Pennsylvania, 61-62; res. & planning assoc. soc. sci, TEMPLE, 62-65, admin. & field placement officer, VISTA training, 65, PROJ. DIR. UNIV-COMMUNITY & PROB-SOLVING PROG, 66- PCCA res grant, 63-65. Consult, pub. admin. training prog. for U.S. Agency Int. Develop, Univ. Pennsylvania, 64-65. Polit. Sci. Asn; Am. Soc. Pub. Admin; Indian Inst. Pub. Admin. International relations; social planning; evolving role of the university in a rapidly urbanizing society; university participation in community problem-solving processes. Publ: Kashmir before the security council, Nebraska, 58; Organization for planned urban change, Univ. Minnesota, 67; A proposal for cross-cultural efforts to relate the university to the demands of our society, Center Community Studies, Temple, 67. Address: 6308 N. 13th St, Philadelphia, Pa. 19141.

JAKOBOVITS, DR. LEON ALEX, b. Arad, Rumania, Aug. 28, 38; Can. citizen; m. 64. PSYCHOLOGY, PSYCHOLINGUISTICS. B.A, McGill, 59, M.A, 60, Ph.D.(psychol), 62. Lectr. psychol, McGill, 62-63; vis. prof. ling, Laval, 63-64; ASST. PROF. PSYCHOL. & COMMUN, ILLINOIS, URBANA, 64-, CO-DIR. CENTER COMP. PSYCHOLING, 65- Res. assoc, Illinois, summer 62; vis. lectr, Wisconsin, summer 64; res. grants, Joint Cmt. Res. TV & Children, 65-66, Nat. Sci. Found, 65-67 & Nat. Inst. Ment. Health, 66-68. Librarian, Int. Coun. Psychol, 65- Psychol. Asn. Cross-cultural research in subjective culture; bilingualism and second language acquisition. Publ: Co-ed, Readings in the psychology of language, Prentice-Hall, 67; auth, Comparative psycholinguistics, Int. J. Psychol, 66; Semantic satiation and cognitive dynamics, J. Spec. Ed, 67. Address: 1207 W. Oregon, Urbana, Ill. 61801.

JAKUBAUSKAS, PROF. EDWARD B(ENEDICT), b. Waterbury, Conn, Apr. 14, 30; m. 59; c. 3. ECONOMICS. B.A, Connecticut, 52, M.A, 54; Ph.D.(econ), Wisconsin, 61. Economist, U.S. Dept. Labor, 56-58; asst. ECON, Wisconsin, 58-61, instr, 61-62, asst. prof, 62-63; IOWA STATE, 63-65, assoc. prof, 65-66, PROF. UNIV. & DIR. INDUST. RELS. CENTER, 66- Dir, Iowa State Manpower Develop. Coun, 65-66. Consult, Armour Automation Fund, 64; Off. Econ. Opportunity, 65; U.S. Off. Ed, 66- U.S.A, 54-56, Res, 56-62. Econ. Asn; Indust. Rels. Res. Asn. Manpower economics; economics of education. Publ: Co-auth, Human resources development, Iowa State Univ, 67; Adjustment to automation in an airline reservation office, Monthly Labor Rev. Address: 1816 Maxwell Ave, Ames, Iowa 50010.

JAKUBCZAK, DR. LEONARD FABIAN, b. Buffalo, N.Y, Jan. 20, 35; m. 59. PSYCHOLOGY, GERONTOLOGY. B.S, St. Joseph's Col.(Pa), 56; M.A, Toronto, 58; Ph.D, Washington (St. Louis), 62. U.S. Pub. Health Serv. trainee psychol. & geront, Washington (St. Louis), 58-61; U.S. Pub. Health Serv. res. fel. psychol, Nat. Inst. Ment. Health, 62-65; RES. PSYCHOLOGIST, VET. ADMIN. HOSP, 65- Res. assoc, Washington (St. Louis), 66-AAAS; Psychol. Asn; Geront. Soc. Age changes in motivation and their physiological bases. Publ: Effects of testosterone on age differences in mating behavior, 64 & Age differences in effects of starvation on activity and survival of rats, 67, J. Geront; Psychophysiological aging, Gerontologist, 67. Address: Veterans Administration Hospital, Jefferson Barracks, St. Louis, Mo. 63125.

JAKUBEK, PROF. OTTO F, b. Billings, Mont, Dec. 31, 25; m. 56; c. 1. GEOGRAPHY. B.A, Long Beach State Col, 53, M.A, 54; Iowa, 54-59, 65-66. ASST. PROF. GEOG, CENT. WASH. STATE COL, 59- Geog. consult, Cent. Wash. Regional Suppl. Center, 66- U.S.A, 51. Asn. Am. Geog; Coun. Geog. Ed. Application of learning theory to geographic education; regional planning; economic and urban geography. Publ: Contrib, Preparation for teaching geographic concepts and generalizations, In: 29th Yearbook, Nat. Coun. Soc. Studies; Geographical investigation of a social problem: a study in scientific method, B.C. Teacher. Address: Dept. of Geography, Central Washington State College, Ellensburg, Wash. 98926.

JALLOW, DR. RAY, b. Najaf, Iraq, Oct. 10, 29; U.S. citizen; m. 58. BUSINESS ECONOMICS. B.A, Baghdad, 51; M.A, Southern California, 56; Ph.D. (bus. econ), California, Los Angeles, 66. CHIEF ECONOMIST & V.PRES. & DIR. RES. & PLANNING, UNITED CALIF. BANK, 59- Mem. exten. faculty, California, Los Angeles, 62- AAAS; Econ. Asn; Statist. Asn; Finance Asn; Asn. Bus. Econ; Inst. Mgt. Sci. Long-range planning for the banking industry, including development of economic and monetary model optimizing liquidity and maximizing profitability based on economic, monetary, competitive, and policy variables in multi-linear relationships. Publ: The impact of economic forces on the automobile industry, 1950-1975, United Calif. Bank, 1/66; The interest rate direction will continue to rise, 7/66 & The interest rate outlook for 1967-1968, 10/67, Commercial & Financial Chronicle. Address: 1820 Canyon Dr, Hollywood, Calif. 90028.

JAMBOR, PROF. AGI, Musicol, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JAMES, PROF. BERNARD J(OSEPH), b. Fargo, N.Dak, Aug. 28, 22; m. 48; c. 3. ANTHROPOLOGY. B.A, Minnesota, 48, M.A, 49; Wenner-Gren & Knapp fels, Wisconsin, 51, Ph.D, 54. Dir. center prog. govt. admin, Chicago, 58-63; PROF. ANTHROP, WISCONSIN, MILWAUKEE, 63- & DIR. CENTER ADV. STUDY ORGN. SCI, WISCONSIN, MADISON, 63- Ford Found. sr. planning officer, Univ. East Africa, 66-68. Mgt. consult, Vet. Admin; Ohio Cmn. Ment. Hyg; West. Interstate Cmn. Higher Ed; South. Regional Ed. Bd; Ford Found; Cook County Dept. Pub. Aid; dept. psychiat, Yale; exec. develop. center, Univ. Illinois, 65-; chmn. & chief consult, spec. eval. cmt. exam. work of Soc. Develop. Cmn. & related poverty progs, Milwaukee, 65- Mem, Brookings Inst. Conf. on Pub. Serv. Fel. Anthrop. Asn; fel. Sociol. Asn; Soc. Pub. Admin. Social-psychology of acculturation; administrative theory; organization science. Publ: Social psychology of Ojibwa acculturation, Am. Anthropologist; co-auth, Educational modifications of administrative judgement, Admin. Sci. Quart. Address: 465 W. Fairy Chasm Rd, Milwaukee, Wis. 53217.

JAMES, DR. CHARLES FRANKLIN, JR, Indust. Eng, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JAMES, DR. CHARLES M(ASON), Econ, see 10th ed, Soc. & Behav. Vols.

JAMES, PROF. CLAYTON LAWRENCE, Sociol, see 10th ed, Soc. & Behav. Vols.

JAMES, PROF. CLIFFORD L(ESTER), b. Preble Co, Ohio, Feb. 18, 03. ECONOMICS. A.B, Ohio State, 25, A.M, 26; Ph.D, Harvard, 30. Asst. prof. ECON, OHIO STATE, 29-34, assoc. prof, 34-41, PROF, 41- Sr. economist, U.S. Tariff Cmn, 34-35; regional price exec. & state price officer, Off. Price Admin, 42-43. Econ. consult, Temporary Nat. Econ. Cmt, 39-40; Pub. Adv. Bd. Mutual Security, 52-53. Econ. Asn. International trade and finance; economic theory; tariff policy and defense. Publ: Industrial concentration and tariffs; Principles of economics; co-auth, Economics: basic problems and analysis. Address: Dept. of Economics, Ohio State University, Columbus, Ohio 43210.

JAMES, DR. ERIC G, b. Jamaica, W.I, Aug. 6, 10; U.S. citizen; m. 58; c. 1. POLITICAL SCIENCE; PUBLIC ADMINISTRATION. B.A, McGill, 41; M.A, N.Y. Univ, 48, Ph.D.(pub. admin), 56. Sr. training adv, Vet. Admin, 45-49; sr. lectr. pub. admin, Univ. West Indies, 49-52; mem. staff, ministry of labour, Govt. Jamaica, 52-55, mem. planning unit, 55-56; instr. govt, Brooklyn Col, 56-59; sr. pub. admin. adv, UN, 59-63; assoc. prof. pub. & int. affairs,

Pittsburgh, 63-64; dean & prof. soc. sci, Manhattan Col, 64-67; CHIEF PUB. ADMIN. DIV, AGENCY INT. DEVELOP, LIBERIA, 67- Lectr, N.Y. Univ, 56-59; Consult, Nat. Indust. Conf. Bd, 64-67; African Training & Res. Center Admin. Develop, Tangier, Morocco, 67. Mem. adv. coun, Int. Study & Res. Inst, 64-67. Del. cong, Int. Inst. Admin. Sci, Lisbon, Portugal, 61. U.S.A.F, 41-44, 2nd Lt. Fel. Am. Sociol. Asn; Soc. Int. Develop; Soc. Pub. Admin; Polit. Sci. Asn. Development administration, especially in countries of low income; social, economic and political development; cross-cultural operations. Address: Agency for International Development, American Embassy, Monrovia, Liberia.

JAMES, DR. ESTELLE, b. Bronx, N.Y, Dec. 1, 35; m. 57; c. 2. ECONOMICS. B.A, Cornell, 56; univ. fel, Mass. Inst. Tech, 56-57, Nat. Sci. Found, fel, 57-59, Soc. Sci. Res. Coun. fel, 59-60, Ph.D.(econ), 61. Lectr. ECON, California, Berkeley, 64-65; asst. prof, Stanford, 65-67; ASSOC. PROF, STATE UNIV. N.Y. STONY BROOK, 67- Economic analysis of Hoffa's leadership of the Teamsters Union; pricing, input and output relationships in the higher education industry. Publ: Co-auth, Hoffa and the teamsters, Van Nostrand, 65. Address: Dept. of Economics, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

JAMES, DR. F(RANK) CYRIL, b. London, Eng, Oct. 8, 03. POLITICAL ECONOMY, ECONOMIC HISTORY. B.Com, London, 23; M.A, Pennsylvania, 24, Ph.D, 26; hon. degrees from 20 insts. U.S, Can. & abroad. Instr. finance & transportation, Pennsylvania, 24-27, asst. prof. finance, 27-33, assoc. prof, 33-35, prof, 35-39, finance & econ. hist, 38-39, chmn. grad. faculty soc. sci, 36-37; dir. sch. commerce, McGILL, 39, prof. polit. econ, prin. & v.chancellor, 39-62, pres, Int. Asn. Univs, 60-65, EMER. PRIN, 62- Adv, Asn. Reserve City Bankers, 36; economist, First Nat. Bank Chicago, 37-38. Trustee, Mackenzie King Scholar. Found, 51- Exec. v.pres, Economists Nat. Cmt. Monetary Policy, 35-37; chmn. Adv. Cmt. Reconstruct, Can, 41-43; economist, Cmt. European Shipowners, 65-67. Chevalier, Legion d'Honneur, France, 48. Econ. Asn; Econ. Hist. Asn; Royal Soc. Can; fel. Royal Econ. Soc. Finance; monetary theory. Publ: Cyclical fluctuations in the shipping and shipbuilding industries; Economics of money, credit and banking; On understanding Russia. Address: Pipers Croft, Devenshire Ave, Amersham, Bucks, Eng.

JAMES, DR. GEORGE, Med, Pub. Health, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JAMES, DR. GEORGE W(ILLIAM), b. Shreve, Ohio, Mar. 10, 25; m. 48; c. 3. ECONOMICS. B.A, Ohio State, 48; M.A, Texas, 49; Ph.D.(econ), Georgetown, 56. Indust. engr, Armco Steel Corp, 49-51; chief res. economist, Battelle Mem. Inst, 56-66; V.PRES. ECON. & FINANCE, AIR TRANSPORT ASN. AM, 66- Lectr, Ohio State, 66. Mem. bus. res. adv. coun, cmt. consumer & wholesale prices, cmt. productivity & tech. develop. & cmt. econ. growth, bur. labor statist, U.S. Dept. Labor, 67- U.S.A.F, 41-46, 51-56, Res, 46-51, 56-, Maj. Econ. Asn; Asn. Bus. Econ; Inst. Mgt. Sci. Macro investigations of research and development in its economic environment; transportation economics. Publ: An approach toward planning a paperboard R&D program, Paperboard Packaging; Component replacement liability, Mgt. Sci; Services as a problem in research and economic growth, Battelle Tech. Rev. Address: Air Transport Association of America, 1000 Connecticut Ave, N.W, Washington, D.C. 20036.

JAMES, DEAN H(ERMAN) B(ROOKS), b. Stanley Co, N.C, Aug. 27, 12; m. 41; c. 2. AGRICULTURAL ECONOMICS. B.S, N.C. State Col, 32, M.S, 40; Ph.D, Duke, 49; Chicago, 49. Asst. county agent, Agr. Exten. Serv, N.C, 34-35, county agent, 35-38, farm mgt. specialist, 39-42; agr. economist, bur. agr. econ, U.S. Dept. Agr, 43-44; PROF. AGR. ECON, N.C. STATE, 45-, DEAN SCH. AGR. & LIFE SCI, 60-, head dept. agr. econ, 50-57, dir. instr, sch. agr, 57-60. Mem. bd. dirs, Nat. Agr. Exten. Center Adv. Study. V.pres, Nat. Cmt. Agr. Policy, 56; chmn, Nat. Workshop Curriculum Develop, 59-60; mem. econ. res. adv. cmt, U.S. Dept. Agr. Agr. Econ. Asn. Agricultural administration and policy; production economics; marketing. Address: Dept. of Agricultural Economics, North Carolina State University, Raleigh, N.C. 27607.

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JAMES, DR. LEWIS FRANCIS, b. Oklahoma City, Okla, Mar. 16, 25; m. 66; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Oklahoma, 49, M.Ed, 58; Ph.D. (ed. psychol), Texas, 66. Sales rep, Houghton Mifflin Co, Tex, 49-52; asst. mgr, T.G. & Y. Stores, Okla, 52-53; counsr, pub. schs, Okla, 53-59; res. assoc. ED. PSYCHOL, Texas, 62-66, asst. prof, 66-67; ASSOC. PROF, SOUTHERN MISSISSIPPI, 67- U.S.N.R, 43-46. Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn. Counseling psychology; teacher education. Publ: Co-auth, Preferences by counselees of various counseling approaches in filmed initial counseling sessions & Five counseling approaches in initial counseling sessions (films), Coop. Res, U.S. Off. Ed, 66. Address: University of Southern Mississippi, Box 457, Hattiesburg, Miss. 39401.

JAMES, DR. MAY HALL, b. North Providence, R.I; m. SOCIAL SCIENCE. Ph.B, M.A. & Ph.D, Brown, 25; Harvard, 26-28; Paris, 28; London Sch. Econ, 29, Ph.D, Yale, 35. Asst. prof. sociol. & econ, Conn. Col, 25-27; prof, Sarah Lawrence Col, 29-31; asst. prof. soc. scis, New Haven State Teachers Col, 34-39, prof, 35-56; prof. soc. sci, chmn. div. lib. arts & dean women, QUINNIPIAC COL, 56-64, EMER. DEAN WOMEN, 64- Lectr, Yale, 42-50; summer, teacher, Peabody Col, 30-31; San Jose State Col, 52-53, 56. Correspondent, London Times, 50-56. Hist. Asn; Cancer Soc. Publ: Sociological survey of the Providence Public Library; Educational history Old Lyme, Connecticut, 1635-1935; co-ed, Pageant of America filmstrips. Address: Quinnipiac College, Hamden, Conn. 06511.

JAMES, PROF. PRESTON E(VERETT), b. Brookline, Mass, Feb. 14, 99; m. 43; c. 1. GEOGRAPHY. A.B, Harvard, 20, M.A, 21; Ph.D.(geog), Clark, 23, hon. Ph.D, 68; hon. D.Sc, Eastern Michigan, 67. Instr. GEOG, Michigan, 23-24, asst. prof, 24-28, assoc. prof, 28-34, prof, 34-45; SYRACUSE, 45-61, chmn. dept, 53-68, Frank Smalley alumni prof, 61-64, MAXWELL PROF, 64- Fulbright lectr, Edinburgh, 57. V.chmn, div. geol. & geog, Nat. Res. Coun, 39, chmn. cmt. geog. res, 41-42; secy. cmt. Latin Am. studies, Am. Coun. Learned Socs, 34-41; mem. cmt. geog, Nat. Acad. Sci, 67- U.S. mem, Pan-Am. Cmn. Geog, 49-57. George Morgan Ward medal, Rollins Col, 63; distinguished serv. award, Nat. Coun. Geog. Ed, 64; Pan.Am. medal, Pan Am. Inst. Geog. & Hist, 65. U.S.A, 18, 41-45, Col. AAAS; Asn. Am. Geog.(secy, 36-41, pres, 51, hon. pres, 66); Am. Geog. Soc.(David Livingstone centenary medal, 66); Meteorol. Soc. Latin America; history of geographic thought. Publ: Latin America, Odyssey, 42, 49, 59, 69; A geography of man, Blaisdell, 35, 49, 59, 66; One world divided, Blaisdell, 64. Address: Dept. of Geography, 301 H.B. Crouse Hall, Syracuse University, Syracuse, N.Y. 13210.

JAMES, DR. ROBERT G(REGORY), b. Ord, Nebr, Apr. 2, 25; m. 49; c. 3. ECONOMICS. B.S, Northwestern, 46; M.B.A, Harvard, 48, Austin fel, 48-49, Ph.D.(econ), 53. Asst. prof. indust. mgt, Mass. Inst. Tech, 49-53; with U.S. Govt, 53-56; asst. dir, econ. & statist. div, Continental Oil Co, 56-59; planning dept, MOBIL OIL CORP, 60-62, gen. mgr. marine transportation dept, 62-65, V.PRES, SUPPLY DISTRIBUTION & TRAFFIC DEPT, 65- Treas, Lam Workshop, Inc, 50-52; bus. mgr, Eliot-Pearson Sch, Tufts Col, 52-53; dir, Am. Bur. Shipping, 64-; Am. cmt, Lloyds Register, 64-66. Consult, Harbridge House, Inc, 52-53; U.S. Mission to Vietnam, 67. Mem. res. adv. cmt, Nat. Planning Asn, 59-61; Brookings Inst. Tax Panel, 63; cmt. econ. policy, U.S. Chamber Commerce. U.S.N.R, 43-46, Capt. Econ. Asn; Finance Asn; Am. Acct. Asn; Mgt. Asn; Royal Econ. Soc. Control of industrial operations; industrial and military planning. Publ: Metal working operations; How businessmen interpret depreciation, Nat. Asn. Cost Acct. J. Address: 80 Ludlow Dr, Chappaqua, N.Y. 10514.

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JAMES, PROF. W(ALTER) RAYMOND, b. Russellville, Ala, Mar. 11, 16; m. 38; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, George Washington, 42, M.A, 45; Ed.D, Columbia, 54. V.consul for. serv. & asst. in admin. off, San Francisco Conf. Int. Orgn, 45; PROF. PSYCHOL, State Univ. N.Y. Col. Plattsburgh, 46-66; STATE UNIV. N.Y. COL. ONEONTA, 66- Psychol. Asn. Social acceptance; children's interests; developmental psychology. Address: Dept. of Psychology, State University of New York College at Oneonta, Oneonta, N.Y. 13820.

JAMES, DR. WALTER THOMAS, b. Brooklyn, N.Y, June 25, 19; m. 43; c. 3. SOCIOLOGY. Ph.B, Dickinson Col, 41; B.D, Drew, 44; M.A, Columbia, 46, Ph.D.(philos), 51. ASSOC. PROF. sociol. & philos, Dickinson Col, 46-54; SOCIOL, WEST. MD. COL, 66- Sociol. Asn; Soc. Sci. Study Relig; Nat. Coun. Family Rels; Philos. Asn. Family; social theory; sociology of religion. Address: Dept. of Sociology, Western Maryland College, Westminster, Md. 21157.

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JAMES, WILLIAM CROSS, Statist, see 10th ed, Soc. & Behav. Vols, deceased 64.

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JAMES, PROF. WILLIAM T(HOMAS), Psychol. & Physiol, see 11th ed, Phys. & Biol. Vols.

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JAMESON, PROF. SAMUEL HAIG, b. Marash, Armenia, Nov. 27, 96; nat; m. 21. SOCIOLOGY. S.T.B, Yale, 19; A.B, Amherst Col, 20; M.A, Columbia, 21; Ph.D, Southern California, 29. Asst. prof. hist. & sociol, Lafayette Col, 21-26; mem. univ. hist. & sociol. cruise, 26-27; lectr. sociol, California, 27-29; vis. prof. appl. sociol, Minnesota, 29-30; prof. sociol, Oregon, 30-46; dir. res, Calif. Intel. Bur, 46-49; lectr. sociol. & criminol. & dir. delinquency control inst, Southern California, 47-64; PROF. SOCIOL, SAN FERNANDO VALLEY STATE COL, 64- Vis. prof, Brazilian Sch. Pub. Admin, 59-61. Consult, Calif. Taxpayers Asn, 49-; exec. br, Correctional Serv. Assocs; res. dept, Metrop. Welfare Fedn. Sociol. Asn. Social psychology, especially welfare agencies; criminology; social theory. Publ: Social psychology of welfare organizations; In the name of charity; Readings in public administration, 11 Vols. in Portuguese. Address: 837 S. Harvard Blvd, Los Angeles, Calif. 90005.

JAMGOTCH, DR. NISH, JR, b. Minneapolis, Minn, July 25, 32. INTERNATIONAL RELATIONS. B.A, Minnesota, 54, M.A, 56; summer fel, Inst. Study U.S.S.R, Munich, 62; Nat. Defense Ed. Act. fel, Claremont Grad. Sch, 62-64, Ph.D.(govt, int. rels), 64. Russian linguist & res. intel. analyst, U.S. Govt, 59; instr. Russian area studies, Calif. State Col. Fullerton, 60-62, ASST. PROF. POLIT. SCI, Long Beach, 64-65; NORTH CAROLINA, CHARLOTTE, 66- Vis. asst. prof, Scripps Col, 66; summers, Hoover res. scholar, Hoover Inst, Stanford, 66; assoc, Russian Res. Center, Harvard, 67; guest scholar, Brookings Inst, 68. Polit. Sci. Asn. Soviet government and politics; politics of the international socialist system consisting of fourteen ruling-party states. Publ: Soviet-East European dialogue: international relations of a new type, Hoover Inst, Stanford Univ, 68; ed, The university and international relations: the challenge of tomorrow, Univ. North Carolina, Charlotte, 68. Address: Dept. of Political Science, University of North Carolina, Charlotte, N.C. 28205.

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JAMIESON, PROF. STUART M(ARSHALL), b. Burnaby, B.C, Apr. 8, 14; m. 43; c. 4. ECONOMICS, SOCIOLOGY. B.A, British Columbia, 35; M.A, McGill, 38; Soc. Sci. Res. Coun. fel, 40-41; Ph.D.(econ), California, 43. Instr. econ, Oberlin Col, 40; Hobart Col, 41-42; Pomona Col, 42-43; economist, Ottawa Dept. Labor, Can, 43-44; res. dir, Coop. Commonwealth Fedn, 44-45; lectr. ECON, BRITISH COLUMBIA, 45-47, assoc. prof, 47-56, PROF, 56-, sociol, 53-56. Soc. Sci. Res. Coun. Can. res. fel, 56-57 & mem, 59-; Can. Dept. Labour & Int. Inst. Labour Studies, Switz, int. fel, 65-66. Can. Polit. Sci. Asn; Can. Indust. Rels. Res. Inst.(pres, 67-68). Labor economics; industrial sociology; labor problems of minority groups. Publ: Labor unionism in American agriculture; Industrial relations in Canada; co-auth, Indians of British Columbia. Address: 1929 Quilchena Crescent, Vancouver, B.C, Can.

JAMISON, JUDITH NORWELL, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

JAMRICH, PRES. JOHN XAVIER, b. Muskegon, Mich, June 12, 20; m. 44; c. 3. MATHEMATICS. B.S, Chicago, 43; M.S, Marquette, 48; Ph.D, Northwestern, 51. Instr. math, Marquette, 47-48; Wisconsin, 48-49; asst. dean of men, Northwestern, 49-51; dean students & dir. testing & placement, Coe Col, 51-55; prof. math. & dean col, Doane Col, 55-57; asst. dir, surv. higher ed, Mich. Legis, 57-58; dir. center study higher ed, Mich. State, 58-61, asst. dean col. ed, 61-63, assoc. dean, 63-68; PRES, NORTHERN MICHIGAN, 68- Accreditation exam, North Cent. Asn. Cols. & Sec. Schs, 60- Consult, higher ed, states, univs. & orgn, 59-; consult, A.T. Kearney & Co, 66- U.S.A.A.F, 42-46, Capt. AAAS; Math. Soc. Finance, administration and curriculum in higher education; sociometric techniques. Publ: Evaluation in higher education, Houghton, 61; co-auth, Control of higher ed, In: Encyclop. Ed. Res, 68. Address: 537 W. Kaye, Marquette, Mich. 49855.

JAN, PROF. GEORGE P(OKUNG), b. Peiping, China, Jan. 6, 25. POLITICAL SCIENCE. A.B, Nat. Chengchi Univ, 49; A.M, Southern Illinois, 56; Ph.D, N.Y. Univ, 60. Asst. prof. GOVT, SOUTH DAKOTA, 61-64, assoc. prof, 64-66, PROF, 66- Soc. Sci. Found. res. assoc, grad. sch. int. rels, Denver, 67-68. Mem, Int. Cong. Orientalists. Polit. Sci. Asn; Soc. Int. Law; Asn. Asian Studies. Government and politics of Communist China; the people's communes in Communist China; far eastern governments, politics and international relations, especially China and Japan; political modernization in developing nations. Publ: Government of Communist China, Chandler Pub, 66; Minor parties in Communist China, Current Hist, 9/62; Mass education in the Chinese communes, Asian Surv, 10/64. Address: 408 Canby St, Vermillion, S.Dak. 57069.

JANCAR, DR. BARBARA WOLFE, b. Keene Valley, N.Y, July 24, 35; m. 63. POLITICAL SCIENCE. B.A, Smith Col, 56; Ph.D.(polit. sci), Columbia, 65; LSSS cert, Charles Univ, Prague, 66. Secy, translator & researcher, div. exile rels, Free Europe Cmt, Inc, Paris, France, 57-59; guide-interpreter, U.S.S.R, 61-62; instr. GOVT, SKIDMORE COL, 64-65, ASST. PROF, 65- Assoc, Environ. Res. Assocs, Inc, Ala, 67- Consult, Warren-Hamilton Counties Action Cmt. Econ. Opportunity, N.Y, 66-67. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Asn. Adv. Slavic Studies. Communist affairs, particularly developments in east central Europe; Czechoslovakia, including translating of contemporary Czech and Slovak literature; planning in the fields of education, recreation, rural and urban development. Publ: The philosophy of Aristotle, Monarch, 63, 66, rev. ed, 67; Warren-Hamilton Counties opportunity report, Warren-Hamilton Counties Action Cmt. Econ. Opportunity, 67. Address: Dept. of Government, Skidmore College, Saratoga Springs, N.Y. 12866.

JANCAUSKAS, R(AYMOND) C(ASIMIR), S.J, b. Chicago, Ill, June 10, 15. ECONOMICS. A.B, Loyola, 38; M.A, St. Louis, 40; Ph.D.(econ), Catholic Univ, 55. From asst. prof. econ. to ASSOC. PROF. MGT, LOYOLA (ILL), 55- Econ. Asn; Statist. Asn; Mgt. Asn. Moral aspects of business conduct; international finance; sampling procedures. Publ: A personal code of business ethics, Atlanta Econ. Rev, 12/66; Let the borrower beware, 12/10/66 & Facts about educational loans, 3/25/67, America. Address: 6525 N. Sheridan Rd, Chicago, Ill. 60626.

JANCZEWSKI, LT. COL. G(EORGE) H, U.S.A.F, b. Poznan, Poland, Oct. 19, 26; m. 48; c. 3. POLITICAL SCIENCE. B.A, Wayne State, 53; M.A, Georgetown, 60, U.S. Air Force fel, 62-64, Ph.D, 66; fel. & dipl. Germanic studies, Goethe Inst, 66. Polish liaison officer, U.S. & Brit. Forces, Germany, 45-47; polit. commentator, Polish Daily News, Mich, 47-51; U.S. AIR FORCE, 51-, instr. for. lang, U.S. Air Force Acad, 60-62, faculty staff, sch. adv. int. studies, Hopkins, 62-63, asst. prof. FOR. LANG, U.S. AIR FORCE ACAD, 64-66, ASSOC. PROF. & DIR. RES, 66- Lectr, Colorado, 61-62, 64-67; Am. Coun. Ed. fel. acad. admin. & spec. asst. to provost, Univ. Pennsylvania, 67-68. Polish Underground Forces, 41-44. Acad. Polit. & Soc. Sci. American policy toward Poland; Soviet area studies Address: Dept. of Foreign Languages, U.S. Air Force Academy, Colo. 80840.

JANDA, DR. EARL J(OSEPH), b. Berwyn, Ill, Dec. 28, 25; m. 49; c. 2. CLINICAL PSYCHOLOGY. B.B.A, Michigan, 46, M.A, 48, Ph.D.(psychol), 52. Clin. psychologist, Walter Reed Hosp, 55-59; chief clin. psychol. serv, Letterman Gen. Hosp, 59-63; Walter Reed Gen. Hosp, 63-67; CHIEF PSYCHOL. SERV, OVERBROOK CHILDRENS CENTER, ARLINGTON, VA, 67- U.S.N, 43-49; Med.Serv.C, U.S.A, 49-67. Psychol. Asn. Parent-child relationships; psychopathology; psychotherapy; community psychology. Address: 11402 Nairn Rd, Silver Spring, Md. 20902.

JANDA, DR. KENNETH F, b. Chicago, Ill, Nov. 14, 35; m. 61; c. 2. POLITICAL SCIENCE. B.S.E, Illinois State, 57; Soc. Sci. Res. Coun. fel, Indiana, 59-61, Ph.D.(govt), 61. Asst. prof. POLIT. SCI, NORTHWESTERN, 61-66, ASSOC. PROF, 66- Coun. mem, Inter-Univ. Consortium Polit. Res, 65-67; consult, Ill. Cmn. Orgn. of Gen. Assembly, 66. Polit. Sci. Asn; Documentation Inst; Asn. Comput. Mach. Information retrieval and data processing applications to political research; legislative behavior, democratic theory and representational behavior; international comparative political parties. Cumulative index to the American Political Science Review, 64, Data processing: applications to political research, 65, Northwestern Univ; Information retrieval: applications in political science, Bobbs, 67. Address: Dept of Political Science, Northwestern University, Evanston, Ill. 60201.

JANDY, PROF. EDWARD C(LARENCE), b. Chicago, Ill, May 22, 99; m. 25; c. 2. SOCIOLOGY. B.A, Hillsdale Col, 27; M.A, Michigan, 28, Ph.D.(sociol), 38. Instr. SOCIOL, Michigan, 28-32; from instr. to assoc. prof, WAYNE STATE, 32-59, prof, 59-65, EMER. PROF, 65- Dir. welfare, Mission to Ethiopia, 46; attache & pub. affairs officer, Am. Embassy, Ethiopia, 50-53; Fulbright lectr, Univ. Karachi, Pakistan, 56-57; summer lectr, Alberta, 66. Consult, President's cmt. congested areas, 44; summer, counsr, fresh air camp, Michigan, 45. Chmn, Governor's adv. cmn. prisons, pardons & parole, Mich, 48-50; Governor's cmt. delinquency, 59. Hillsdale Col. servs. in ed. award, 55. Publ: Charles Horton Cooley, his life and his social theory; Ethiopa today: review of its changes and problems, Ann. Am. Acad. Polit. & Soc. Sci; Decade of socio-economic progress in Pakistan, United Asia. Address: 2307 Lackawanna St, Adelphi, Md. 20783.

JANES, PROF. HAROLD D, b. Ft. Wayne, Ind, Feb. 16, 23; m. 48; c. 3. INDUSTRIAL RELATIONS. B.B.A, Miami (Fla), 50, M.B.A, 52; Ph.D.(econ. & mgt), Alabama, 61. Buyer, Gen. Elec. Co, 41-42; brakeman, Pa. R.R, 42; personnel mgr, Wadsworth Watch Case Co, 52-53; dir. personnel, Elgin Nat. Watch Co. 53-58; from asst. prof. to assoc. prof. MGT, ALABAMA, 58-62, PROF, 62- Consult, Am. Arbit. Asn, 61- U.S.A.A.F, 42-46, Lt. Motivation; training; leadership; personnel administration. Publ: How to apply for a job, Kiplingers Mag, 52; Consultants Report, In: Critical incidents in management, Irwin, 63; Motivation in unskilled southern work groups, Personnel J, 6/66. Address: 1611 Alaca Place, Tuscaloosa, Ala. 35401.

JANES, PROF. R(OBERT) W, b. Chicago, Ill, Sept. 24, 16; m. 53; c. 3. SOCIOLOGY, ANTHROPOLOGY. A.B, Chicago, 38, A.M, 39; Ph.D, Illinois, 42.

Instr. SOCIOL, Illinois, Urbana, 46-47, asst. prof, 47-57, assoc. prof, 58-63; PROF. MARYLAND, 64- Sociol. Asn; Soc. Study Social Probs. Instructional television; describing community structure through newspaper analysis; urban problems and applied sociology. Publ: Social factors in local traffic generation, Univ. Illinois Eng. Exp. Bull, 66. Address: Dept. of Sociology, University of Maryland, College Park, Md. 20740.

JANICKI, DR. W(OJCIECH) PETER, b. Torun, Poland, Apr. 5, 29; U.S. citizen; m. 56; c. 2. SOCIAL PSYCHOLOGY. B.A, Centre Col, 57; Nat. Inst. Ment. Health fel. & Ph.D.(soc. psychol), Princeton, 61. Res. assoc. surv. res, inst. int. soc. res, Princeton, 61-62; asst. prof. psychol, Dartmouth Col, 62-64; soc. sci. analyst, U.S. INFO. AGENCY, 64-65, sr. soc. sci. analyst, 65-66, CHIEF NEAR EAST & SOUTH ASIA RES, 66- U.S.A, 51-53. Psychol. Asn. Human motivation, especially social, political and economic attitudes and values; measurement of cultural and national development and trends; cross cultural research; use of survey research techniques. Publ: Attitudes and values of Iranian university students, U.S. Info. Agency Report, 64; Effect of disposition on resolution of incongruity, J. Abnorm. & Soc. Psychol, 11/64; co-auth, An alternative form of a forced-choice F scale, Psychol. Reports, 65. Address: U.S. Information Agency, IOP/RN, 1750 Pennsylvania Ave, Washington, D.C. 20547.

JANIGER, DR. OSCAR, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JANIS, DR. IRVING L(ESTER), b. Buffalo, N.Y, May 26, 18; m. 39; c. 2. PSYCHOLOGY. B.S, Chicago, 39, 39-40; Soc. Sci. Res. Coun. fel, Columbia, 46-47, Ph.D.(psychol), 48. Supvr. opinion survs, Psychol. Corp, N.Y, 40-41; sr. soc. sci. analyst, spec. war policies unit, U.S. Dept. Justice, 41-43; res. assoc, spec. cmt. morale, Soc. Sci. Res. Coun, 46; res. asst. prof. PSYCHOL, YALE, 47-51, assoc. prof, 51-60, PROF, 60-, fel. psychoanal, 50. Fulbright sr. res. grant, 57-58; Soc. Sci. Res. Coun. faculty res. award, 61-62, 66-67. Consult, Rand Corp, Calif, 48- Hofheimer award, Am. Psychiat. Asn, 59; Socio-psychol. res. prize, Am. Asn. Adv. Sci, 67. U.S.A, 43-46. AAAS; Psychol. Asn. Psychological reactions to objective danger situations; attitude change; decision making; group processes. Publ: Psychological stress; co-auth, Communication and persuasion & Personality and persuasibility. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06520.

JANIS, PROF. J(ACK) HAROLD, Bus. Writing, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

JANKE, DR. LEOTA LONG, b. Riverside, Calif, Aug. 25, 11; m. 35. PSYCHOLOGY. A.B, Drury Col, 33; A.M, Washington (St. Louis), 37; Ph.D. (human develop), Chicago, 47. Instr. psychol. & in charge counseling center, Illinois, 42-46; instr, Chicago, 46-51, asst. prof. & administr. psychol. clin, 51-53; res. assoc, sch. pub. health, Harvard, 54-59; instr. exp. psychol, TUFTS, 59-61, ASST. RES. PROF. PSYCHOL, SCH. DENT. MED, 61- Psychologist, Vet. Rehab. Center, Ill, 47-49; Children's Med. Center, Boston, Mass, 54-56; assoc. prof, col. ed, Northeastern, 60-63; coord. dir. schs. for children, Lesley Col, 64-67. Dipl, Am. Bd. Exam. Prfnl. Psychol. Psychol. Asn; Psychonomic Soc. Relations between abilities, personality variables and learning efficiency; data analysis. Publ: Educational psychology; Relations between ability and social status in a midwestern community. I Ten-year-old children & II Sixteen-year-old boys and girls, J. Ed. Psychol. Address: 30 Vine Brook Rd, Lexington, Mass. 02173.

JANNEY, DR. HAROLD, b. Hammond, La, Jan. 8, 09; m. 34; c. 4. PENALOGY, MEDICINE. B.S, La. State, 31, M.D, 35. Staff physician, Fed. Reformatory, Chillicothe, Ohio, 36-39, U.S. Penitentiary, Atlanta, Ga, 39-40, chief med. officer, 50-53, chief med. officer, Fed. Youth Center, Englewood, Colo, 40-43, staff venereal disease officer, Fed. Reformatory for Women, Alderson, W.Va, 43-44, chief med. officer, Fed. Correctional Inst, Ashland, Ky, 44-47, U.S. Penitentiary, McNeil Island, Wash, 47-48, Leavenworth, Kans, 48-50, med. dir, Fed. Bur. Prisons, Dept. Justice, Wash, D.C, 53-62; chief ment. health career develop. prog, Nat. Inst. Ment. Health, Md, 62-66; CHIEF MED, CALIF. DEPT. MENT. HYG, 66- Consult, 50- Meritorious serv. medal, U.S. Pub. Health Serv, 65. Med. Correctional Asn.(pres, 55-56); fel. Psychiat. Asn; Correctional Asn; Am. Med. Asn; Pub. Health Asn; fel. Geriat. Soc; Acad. Relig. & Ment. Health; Asn. Mil. Surg. U.S. Planning and development of facilities; programs and staff for rehabilitation of prisoners; administration of program for training of mental health workers for careers in the United States Public Health Service. Address: 8408 Fenway Rd, Bethesda, Md. 20034.

JANNEY, DR. J(OSEPH) ELLIOTT, Psychol, see 10th ed, Soc. & Behav. Vols.

JANOSIK, DR. EDWARD G(ABRIEL), b. Youngstown, Ohio, Jan. 16, 18. GOVERNMENT. B.S, Southeast. Mo. State Col, 39; A.M, Pennsylvania, 47, Ph.D, 51. From instr. govt. to assoc. prof. POLIT. SCI, Pennsylvania, 49-67; PROF. & CHMN. DEPT, STATE UNIV. N.Y. COL. GENESEO, 67- Vis. lectr, Haverford Col, 59. American government; political parties; legislative process. Publ: Guide to Pennsylvania politics; co-auth, Parties and the governmental system, Prentice-Hall, 67; auth, Constituency labour parties in Britain, Praeger, 68. Address: Dept. of Political Science, State University of New York College at Geneseo, Geneseo, N.Y. 14454.

JANOWITZ, PROF. MORRIS, b. Paterson, N.J, Oct. 22, 19; m. 51; c. 2. SOCIOLOGY, POLITICAL SCIENCE. A.B, N.Y. Univ, 41; Soc. Sci. Res. Coun. fel, Chicago, 46-47, Ph.D, 48. Asst. propaganda res, War Communications Res. Proj, 41; asst. propaganda anal. sect, spec. war policies unit, U.S. Dept. Justice, 42, sr. propaganda analyst & head native Fascist sub-sect, 43; from instr. to asst. prof. soc. sci, Chicago, 47-51, res. assoc. cmt. communications, soc. sci. div, 48-51; from asst. prof. to prof. sociol, Michigan, 51-61, chmn. doctoral prog. soc. sci. & soc. work, 55-61; vis. Ford prof, grad. sch. bus, CHICAGO, 61-62, PROF. SOCIOL, 62-, CHMN. DEPT, 67-, DIR. CENTER SOC. ORGN. STUDIES, 62- Fulbright res. prof, Frankfurt, 54-55; fel, Center Adv. Study Behav. Sci, 58-59. Consult, President's Cmt. Civil Rights, 47; U.S. Dept. Army, 51-54; U.S. Dept. State, 53; off. psychol. & soc. sci, U.S. Dept. Defense, 58; soc. sci. adv. bd, U.S. Arms Control & Disarmament Agency, 65- Ed, Heritage Sociol. Series, Univ. Chicago. Mem. study group mil. retirement, Senate Cmt. Armed Forces, 61; chmn. Inter-Univ. Seminar Armed Forces & Soc, 61-; mem. exec. cmt, Center Comp. Study New Nations, 64-; chmn, working group, armed forces & soc, Int. Sociol. Asn, 66. U.S.A, 43-45; Bronze Star Medal. Sociol. Asn; Polit. Sci. Asn; Am. Asn. Pub. Opinion Res; World Asn. Pub. Opinion Res. Sociological theory; political and military sociology; organizational behavior; community and mass communications studies; application of sociology to policy issues. Publ: Auth, The professional soldier, 60 & co-auth, Social change and prejudice, 65, Free Press Glencoe; auth, The role of the military in the political development of new states, Univ. Chicago, 64. Address: Dept. of Sociology, University of Chicago, Chicago, Ill. 60637.

JANSMA, DR. J(OHN) DEAN, b. Sibley, Iowa, Feb. 5, 33; m. 57; c. 3. RESOURCE ECONOMICS. B.S, Iowa State, 55, M.S, 58; Ph.D.(agr. econ), Okla. State, 64. Agr. economist, U.S. Dept. Agr, 58-65; ASST. PROF. RESOURCE ECON, PA. STATE, 65- U.S.A, 57. Agr. Econ. Asn; Econ. Asn. Integration of efficiency and distributional models to measure benefits and costs of public programs. Publ: Co-auth, Local secondary effects of watershed projects, U.S. Dept. Agr. Bull. 178, 5/64; auth, Estimating accounts and economic structure for an Oklahoma county, N.C. Agr. Policy Inst, 1/66; Discussion: the effects of resource policies on income distribution, J. Farm Econ, 12/66. Address: Dept. of Agricultural Economics, Room 8, Weaver Bldg, Pennsylvania State University, University Park, Pa. 16802.

JANSSEN, DR. HANS, b. Wuppertal, Germany, Dec. 11, 96; nat. ECONOMICS, BUSINESS ADMINISTRATION. A.B, Pa. State Col, 35, A.M, 36, Ph.D, 42. Indust. engr, Textile Machine Works, Pa, 21-31; instr, Pa. State Col, 37-41; prof. econ. & bus. admin, head dept. & lectr. fine arts, Yankton Col, 42-67, emer. prof, 67; RETIRED. Lectr, S.Dak. study group, Am. Inst. Banking; Ford Found. vis. prof, Free Univ. Berlin, 53. Econ. Asn; Finance. Asn; Am. Acct. Asn. Retail organization in post war Germany; governmental price policies in the Third Reich. Address: Topeka Convalescent Center, 515 Horne St, Topeka, Kans. 66600.

JANSSEN, DR. MELVIN RUSSEL, b. Minonk, Ill, Oct. 12, 21; m. 43; c. 4. AGRICULTURAL ECONOMICS. B.S, Illinois, M.S, 48; Ferguson fel, Harvard, 47-49, M.P.A, 48, M.A, 49, Ph.D, 53. Agr. economist prod. econ, bur. agr. econ, U.S. DEPT. AGR, 49-53, agr. res. serv, 53-61, rural develop, ECON. RES. SERV, 61-64, invest. leader, Resource Develop. Div, 64-65, field res. coordinator, ECON. DEVELOP. DIV, 65-67, ASST. DIR, 67- U.S.A, 43-46, Res, 46-, Lt. Col. Econ. Asn; Agr. Econ. Asn. Agricultural labor problems; rural development, especially in education; migration from rural areas; production economics. Publ: Beef cow herd costs and returns & Capital rationing among farmers, Purdue Agr. Exp. Sta. Bull; Bilateral monopoly in farm leasing, J. Farm Econ. Address: Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

JAN-TAUSCH, DR. E(MIL) JAMES, b. Newark, N.J, Apr. 12, 13; m. 40; c. 1. PSYCHOLOGY. B.S, Rutgers, 40, M.A, 46, D.Ed, 59. Methods engr. indust. eng, West. Elec. Co, N.J, 42-44, wage & salary administr, 44-49, sr. personnel investr, 49; dir. guid, pub. schs, Union, N.J, 49-52; psychologist, pub. schs, Springfield, 52-60; dir. remedial ed, N.J. STATE DEPT. ED, 60-65, DIR. SPEC. INST. SERV, 65- Dir, reading clin, N.J. State Col, Newark, 55-59. Ed, Learning Disabilities J, 67- Psychol. Asn. Learning theory; motivation of behavior. Publ: Suicide among children; co-auth, Who failed & Teaching reading to secondary school culturally deprived pupils. Address: 342 Hobart Ave, Short Hills, N.J. 07078.

JANTZ, DR. ELEANORE M(ARJORIE) W(HITMORE), b. New York, N.Y, Nov. 8, 12; m. 35. PSYCHOLOGY. B.A, Northwestern, 53, fel, 56-58, M.A, 57, Ph.D, 59; Hamburg, 54; Vienna, 55. Prof. psychol, Towson State Teachers Col, Md, 60; ASST. PROF. MED. PSYCHOL, PSYCHIAT. INST, SCH. MED. MARYLAND, 60- Psychol. Asn. Learning behavior in animals and humans; personality and learning theory; central nervous system function and brain damage; art history and iconography. Publ: Origins of Pennsylvania folk art, Antiques; co-auth, R-S learning as a function of meaningfulness and degree of S-R learning, J. Exp. Psychol. & Familial occurrence of severe reading problems, Proc. Am. Pediat. Soc. Address: Psychiatric Institute, University of Maryland School of Medicine, Baltimore, Md. 21201.

JANTZEN, DR. CARL RAYMOND, b. Beatrice, Nebr, Apr. 2, 31; m. 60; c. 1. ANTHROPOLOGY. A.B, Bethel Col.(Kans), 57; M.A, Mich. State, 59, Ph.D. (anthrop), 63. Instr. ANTHROP, MIAMI (OHIO), 63-64, ASST. PROF, 64- Fel. Anthrop. Asn; Soc. Appl. Anthrop. Community studies; peasants of the Middle East; sociocultural change; Middle East as a culture area; temporal dimensions of community life. Publ: Co-auth, Boundary maintenance vs. systemic linkage in school integration: case of the Amish, J. Pakistan Acad. Village Develop, 10/62; Working bibliography on community develop, Inst. Community Develop, Mich. State Univ, 62. Address: Dept. of Sociology & Anthropology, Miami University, Oxford, Ohio 45056.

JANUS, DR. SIDNEY Q(UENTIN), b. New York, N.Y, Nov. 7, 12; m. 35; c. 3. PSYCHOLOGY. B.S.S, City Col. New York, 33; A.M, Columbia, 34; Ph.D. (psychol), George Washington, 44. Occup. analyst, Soc. Security Bd, D.C, 38-40; regional occup. analyst & acting chief manpower utilization, War Manpower Cmn, Atlanta, 40-43; chief tech. serv, U.S. Dept. Labor, 46-47; prof. psychol, Ga. Inst. Tech, 47-54; CONSULT. PSYCHOLOGIST, 47- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 43-46. AAAS; fel. Psychol. Asn; N.Y. Acad. Mgt. Industrial relations; leadership; motivation; vocational guidance; career counseling. Address: 615 Peachtree St. N.E, Atlanta, Ga. 30308.

JAQUES, DR. HOWARD WYCOFF, b. Laura, Ill, Oct. 29, 20; m. 50; c. 4. CLINICAL PSYCHOLOGY. B.S, Mich. State, 43; M.A, Michigan, 49; Ph.D, Tennessee, 53. Staff psychologist, Loudoun Community Col, 53-54; Wichita Guid. Center, 54-56; clin. psychologist MENT. HYG. CLIN, VET. ADMIN, 56-59, asst. chief, 59-65, CHIEF PSYCHOLOGIST, 65- U.S.A, 43-46, Sgt. Psychol. Asn; Soc. Gen. Semantics. Adlerian psychology; client-centered therapy. Publ: Co-auth, Semantic play therapy. Address: 3422 E. Douglas, Wichita, Kans. 67208.

JARACZ, WILLIAM ANDREW, b. Lowell, Mass, Sept. 2, 16; m. 41; c. 1. STATISTICS, LABOR ECONOMICS. B.S, Harvard, 47; M.B.A, Pennsylvania, 48. Sect. chief, pop. & housing div, bur. census, U.S. Dept. Commerce, 40; fingerprint classifier & Polish & Spanish translator, Fed. Bur. Invest, 40-43; biographical analyst, Chinese personalities, U.S. Dept. State, 45-46; instr. mkt, Wharton Sch, Pennsylvania, 48-51; head statist. serv. sect, U.S. Off. Ed, 51-56; labor economist, div. sci. personnel & ed, NAT. SCI. FOUND, 56-59, prog. planning officer, off. assoc. dir, 59-61, staff mem, sci. resources planning off, 61-64, study dir, sci. ed. studies group, 64-66, HEAD PLANNING & EVAL. UNIT, ED. DIV, 66- U.S.A, 43-45. AAAS; Asn. Instnl. Res; Econ. Asn; Statist. Asn. Foreign trade, education and scientific and technological manpower. Publ: Opening enrollment in higher educational institutions; co-auth, Engineering enrollments and degrees; Statistics of state school systems: 1949-50, In: Biennial survey of education in the United States, 1948-50. Address: 3331 Holloman Rd, Falls Church, Va. 22042.

JARCHO, DR. SAUL, Hist. of Med, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

JARMON, DR. HAROLD, b. Brooklyn, N.Y, July 27, 33; m. 56; c. 3. CLINICAL PSYCHOLOGY. A.B, N.Y. Univ, 55; City Col. New York, 55-56; Nat. Inst. Ment. Health trainee, Kansas, 59-62, M.A, 59, Ph.D.(clin. psychol), 62. Psychol. intern, adult div, Topeka State Hosp, Kans, 60-61, staff psychologist, Kansas Treatment Center Children Div, 61-62; instr, med. sch, Indiana, 62-63; ASSOC. PROF. PSYCHOL & DIR. CHILD GUID. CENTER, MASSACHUSETTS, AMHERST, 63- Staff psychologist, LaRue D. Carter Mem. Hosp, Indianapolis, Ind, 62-63. Consult, clin. res. center early childhood schizophrenia, Indiana Univ. Med. Center, 62-63; Northampton State Hosp, Mass, 64-66; Protestant Youth Center, Mass, 65-67; Worcester Youth Guid. Center, Mass, 67- Psychol. Asn; Soc. Res. Child Develop. Publ: Co-auth, The effect of food deprivation upon the sexual performance of male guinea pigs, J. Comp. & Physiol. Psychol, 61. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01002.

JARNAGIN, DR. ROBERT A, b. Des Moines, Iowa, June 29, 16; m. 49; c. 2. COMMUNICATIONS. B.A, Iowa, 38; M.A, Illinois, Urbana, 57; Ph.D.(commun. arts), Mich. State, 64. Reporter-photographer, Iowa Daily Press Asn, 39-41; ed, Bankers Life Co, 41-48; asst. exten. ed, Illinois, 48-66; PROF. COMMUN, N.DAK. STATE, 66-, DIR. COMMUN, 67-, agr. editor, 66-67. Staff mem. commun. seminars, Mich. State Univ-Agency Int. Develop 59-67. U.S.N, 42-46, Lt. Asn. Agr. Col. Ed. Adoption-diffusion of information, new methods of attitude studies including use of Q-technique and factor analysis. Address: Ceres Hall, E, North Dakota State University, University Station, Fargo, N.Dak. 58102.

JARRARD, PROF. LEONARD E(VERETT), b. Waco, Tex, Oct. 23, 30; m. 58; c. 1. PSYCHOLOGY. B.A, Baylor, 55; M.S, Carnegie Inst. Tech, 57, Nat. Inst. Ment. Health fel, 58-59, Ph.D, 59. Asst. PSYCHOL, Carnegie Inst. Tech, 55-58; asst. prof, Washington & Lee, 59-63, ASSOC. PROF, 63-66; CARNEGIE-MELLON UNIV, 66- Summer field researcher, Flight Safety Found, N.Y, 58; Nat. Insts. Health spec. fel, dept. anat, col. med, Florida, 65-66. U.S.A.F, 52-54. Psychol. Asn; Psychonomic Soc. Neuropsychology; neuroanatomy. Publ: Role of visual cues in the performance of ergographic work, J.Exp. Psychol; Effects of long-continued, low-intensity, gamma irradiation on learning and body weight in the rat, J. Comp. & Physiol. Psychol; Behavior of hippocampal lesioned rats in home cage and novel situations, Physiol. & Behav, 68. Address: Dept. of Psychology, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

JARRETT, PROF. HILTON FRANCIS, b. Akron, Ohio, July 27, 18; m. 49; c. 4. PSYCHOLOGY. B.E, Southern California, 51, M.S, 53, Ph.D.(psychol), 57. Indust. psychologist, Psychol. Serv, Inc, 56-57; tech. adv, Los Angeles Fire Dept, Calif, 57-61, dir. training res. unit, 61-63; human factors scientist, Syst. Develop. Corp, 59-66; ASSOC. PROF. PSYCHOL. CALIF. STATE COL. LONG BEACH, 66- Consult, Syst. Develop. Corp, 66-; expert fire res. planning, Nat. Bur. Standards, 67. Mem. atomic & fire res. cmt, Int. Asn. Fire Chiefs, 66- U.S.A, 43-46. Fel. Psychol. Asn; Human Factors Soc; sr. mem. Inst. Elec. & Electronics Eng; Opers. Res. Soc; Soc. Pub. Admin; Soc. Fire Protection Eng. Design, development, implementation, training and evaluation of systems; systems analysis and operations research. Publ: Co-auth, Human factors considerations for civil defense utilization of the proposed Manhattan Island underground highway and parking facility, Oak Ridge Nat. Lab, 2/66; auth, The systems approach to fire protection, Fed. Fire Coun, 8/66;Cost-effectiveness analysis for the fire service: an overview, Syst. Develop. Corp, 9/67. Address: 7803 Croydon Ave, Los Angeles, Calif. 90045.

JARRETT, DR. JAMES M(acPHERSON), b. Norwalk, Ohio, Mar. 18, 05; m. 31; c. 2. ECONOMICS. B.S, Col. of Wooster, 26; A.M, Princeton, 28, S. East Club fel, 29-30, Ph.D, 34. Instr, Princeton, 28-29, 30-34; economist, U.S. Tariff Cmn, 34-46; mem. & econ. adv. to chmn, Excess Profits Tax Coun, 46-54; ASST. DIR. STATIST. DIV, INTERNAL REVENUE SERV, 54- State dir, Emergency Relief Admin, N.J, 33; lectr, Columbus Univ. Law Sch, 40-41. Adv. admin. taxation, U.S. Econ. Mission, Chile, 63. Conf. res. income & wealth, Nat. Bur. Econ. Res, 64- Econ. Asn; Statist. Asn. Statistics of income; federal taxation of business, corporate and noncorporate, and of individuals. Publ: Co-auth, Trade data for United States Belgo-Luxembourg trade agreement, U.S. Tariff Cmn, 35 & Grapes, raisins and wines, Govt. Printing Off, 39; auth, Federal tax returns as basis of tax research, J. Taxation, 4/65. Address: 7017 Wilson Lane, Bethesda, Md. 20034.

JARRETT, DR. R(HEEM) F(OSTER), b. U.S, Apr. 10, 13; m. 37; c. 2. PSYCHOLOGY. B.A, Arizona, 35; Ph.D.(psychol), California, 47. Lectr. PSYCHOL, CALIFORNIA, BERKELEY, 42, 43-46, instr, 46-47, asst. prof, 47-53, ASSOC. PROF, 53- Psychol. Asn; Psychomet. Soc; Statist. Asn; Inst. Math. Statist. Psychological nature of learning deterioration in cortically injured animals; psychological statistics; verbal learning. Address: Dept. of Psychology, University of California, Berkeley, Calif. 94720.

JARRETT, DR. WILLIAM H, Sociol, Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

JARVESOO, DR. ELMAR, b. Pati, Estonia, Mar. 22, 09; m. 38. AGRICULTURAL ECONOMICS. Dipl. agr, Tartu State, 34; fel, Helsinki, 34; Dr. agr, Berlin, 39; N.C. State Col, 60-61. Asst. instr. agr, Tartu State, 34-37, lectr. agr. econ, 41-44; assoc. prof, Baltic Univ, 46-49; ed. newspaper, Nordic Press Pub. Co, N.Y, 49-50; res. asst. AGR. ECON, MASSACHUSETTS, 50-52, instr, 52-56, asst. prof, 55-57, ASSOC. PROF, 58- Ministry Agr. Estonia fel. agr. econ, Royal Agr. Col, Sweden, 39; specialist, Ministry Agr, Estonia, 40-44; Fulbright lectr, Sch. Econ. & Bus. Admin, Helsinki, 66. C.Eng, Estonian Army, 28-30, 2nd Lt. Agr. Econ. Asn; Econ. Asn; Int. Asn. Agr. Econ. Labor efficiency studies in dairy farming and greenhouse flower production; economics of flower production and marketing; international agricultural economics; Soviet agriculture. Publ: Wholesale florist industry in Massachusetts, 66, co-auth, & Productivity of resources in the greenhouse carnation industry, 67 & auth, Cost of producing greenhouse carnations in Massachusetts, 68, Univ. Mass. Address: Dept. of Agricultural Economics, University of Massachusetts, Amherst, Mass. 01002.

JARVIK, DR. LISSY F(EINGOLD), Human genetics, see 11th ed, Phys. & Biol. Vols.

JARVIK, DR. MURRAY E(LIAS), Pharmacol, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

JARVINEN, DR. VILHO O, b. Tampere, Finland, July 22, 06; m. 29; c. 2. MARKETING, MANAGEMENT. E.E, Tech. Col. Tampere, 27; M.B.A, N.Y. Univ, 42, D.C.S, 45. Gen. foreman, Hydro-Elec. Power Cmn, Ont, 28-32; chief design & drawing depts, Post & Tel. Admin, Finland, 32-36; rep. mkt, Finnish Dairies' Asn, Finland, 36-39; secy. & treas, Finnish-Am. Trading Corp, N.Y, 39-42; commercial coun, Finnish Legation, Wash, D.C, 45-50; asst. prof, MKT, SCH. COMMERCE, N.Y. UNIV, 61-64, ASSOC. PROF, 64- Participant mkt. seminar, Inter-Am. Univ. P.R, summer 65, vis. prof. & acting chmn. dept. econ. & bus. admin, fall 66. Mgt. consult, 42- Economic and marketing research in the United States, Caribbean area, Central and South American, Middle East and Europe. Address: 546 Westchester Ave, Mt. Vernon, N.Y. 10552.

JARVIS, PROF. CHESTER E, b. Stockton, Calif, May 17, 10; m. 42; c. 1. POLITICAL SCIENCE. B.A, California, Berkeley, 32, M.A, 38; Ph.D.(polit. sci), Pennsylvania, 56. Instr. & asst. prof. POLIT. SCI, Dickinson Col, 46-50; asst. prof, GETTYSBURG COL, 50-55, assoc. prof, 55-57, PROF. & CHMN. DEPT, 57- Qm.C, A.U.S, 42-46, Capt. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Constitutional and comparative government. Address: Dept. of Political Science, Gettysburg College, Gettysburg, Pa. 17325.

JARVIS, DR. JAMES ALLEN, b. Barbourville, Ky. Sept. 21, 21. POLITICAL SCIENCE. A.B, Union Col.(Ky), 42; M.A, Kentucky, 49; Ph.D, Illinois, 57. ASST. PROF. POLIT. SCI, WAYNE STATE, 55- Sig.C, U.S.A, 43-46. Polit. Sci. Asn; Soc. Pub. Admin. Local government and administration; metropolitan government; housing policy and administration; Indonesian public administration. Address: Dept. of Political Science, Wayne State University, Detroit, Mich. 48202.

JARVIS, DR. WILBUR, b. Newark, N.J, Dec. 26, 16; m. 38; c. 2. MEDICAL PSYCHOLOGY. A.B, N.Y. Univ, 36, M.D, 39. Assoc. dir, Henry St. Settlement Psychiat. Clin, 51-54; psychiatrist, Lenox Hill Hosp, New York Psychiat. Clin, 52-55; mem. clin. staff, Hillside Hosp, New York, 55-59; PSYCHIAT. CONSULT, DOCTOR'S HOSP, FREEPORT, 59- Psychiat. consult, Cent. Island Ment. Hyg. Clin, Uniondale, 58-61; mem. attend. staff, Hillside Hosp, 59- AAAS; fel. Psychiat. Asn. Psychiatry; psychoanalysis. Publ: When I grow big and you grow little, Psychoanal. Quart; Effect of pregnancy on men, J. Am. Psychoanal. Asn. Address: 89 S. Ocean Ave, Freeport, N.Y. 11520.

JASINSKI, DR. FRANK J(OSEPH), b. Conn, May 4, 21; m. 48; c. 1. ANTHROPOLOGY. B.S, Conn. State Teachers Col, 43; Ph.D.(anthrop), Yale, 55. Mgt. consult, C.R. Walker Assocs, 53-59; human factors scientist, Syst. Develop. Corp, 59-61, mgr. career mgt, 61-64; training mgr, TRW SYSTEMS, 64-66, DIR. CAREER DEVELOP, 66- Res. assoc, Yale, 54-59, lectr, schs. eng. & med, 56-59; sch. bus. admin, California, Los Angeles, 59- U.S.A, 43-46. Anthrop. Asn; Soc. Appl. Anthrop. Impact of technology on social organization and patterns of behavior; culture change; patterning of reciprocal relationships; management development; career planning; organization development. Address: 17718 Revello Dr, Pacific Palisades, Calif. 90272.

JASNOW, DR. ALEXANDER, b. Odessa, Russia, Nov. 18, 15; nat; m. 47; c. 2. CLINICAL PSYCHOLOGY. B.S.S, City Col. New York, 37, M.Sc, 46; Ph.D, N.Y. Univ, 51. Clin. psychol. trainee, U.S. Vet. Admin, 46-51; chief psychologist, Clin. for Ment. Health Serv. of Passaic County, Inc, 51-68; private practice, 53- Instr, eve. session, City Col. New York, 50-53. U.S.A, 43-46. Psychol. Asn; Group Psychother. Asn; Orthopsychiat. Asn. Thought processes in schizophrenia; psychotherapeutic processes with children; family psychotherapy. Publ: Conceptual impairment in schizophrenia as related to impairment in perceptual processes; co-auth, Utilization of co-therapists and of group therapy techniques in a family oriented approach to a disturbed child, Int. J. Group Psychother. Address: 14-11 Lucena Dr, Fair Lawn, N.J. 07410.

JASPEN, PROF NATHAN, b. New York, N.Y, Oct. 21, 17; m. 44; c. 5. STATISTICS. B.S, City Col. New York, 42; M.A, George Washington, 44; fel, Pa. State, 47-49, Ph.D.(psychol), 49. Occup. analyst, U.S. Employ. Serv, 42-47; personnel analyst, U.S. Marine Corps, 47; assoc. prof. film res, Pa. State, 49-52; asst. dir. evaluation & guid, Nat. League Nursing, 52-54, dir. res. & statist, 54-59; assoc. prof. ed, N.Y. UNIV, 59-62, PROF. ED. STATIST, 62-, CHMN. DEPT, 67- AAAS; Psychol. Asn; Statist. Asn; Inst. Math. Statist; Psychomet. Soc. Statistics; tests and measurements; electronic computer methods. Publ: Age-placement of Binet tests, Psychol. Bull; Serial correlation, Psychometrika; Factor analysis of worker characteristics, J. Appl. Psychol. Address: Dept. of Education, New York University, New York, N.Y. 10003.

JASPER, DR. HERBERT H(ENRY), Neurophysiol, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

JASTAK, DR. JOSEPH F(LORIAN), b. Poland, Mar. 19, 01; nat; m. 39; c. 1. PSYCHOLOGY. Dipl, Poznan, Poland, 25; Kosciuszko Found. scholar, 26-28; M.A, Columbia, 28, Ph.D, 34. Psychologist, psychiat. div, Bellevue Hosp, 29-31; Brooklyn Child Guid. Clin, 31-35; chief psychologist, Del. State Hosp, Farnhurst, 36-52; res. prof. psychol, Delaware, 52-56; DIR, GUID. ASSOCS, 56- Fel. AAAS; fel. Psychol. Asn; fel. Asn. Ment. Deficiency; Rehab. Asn. Personality measurement; mental retardation; vocational guidance; personnel selection. Publ: Wide Range Achievement Test; co-auth, Mental retardation: its nature and incidence, Univ. Delaware, 63; Jastak Test, Am. Guid. Serv, 59. Address: 4002 Springfield Lane, Greenville, Del. 19807.

JASTRAM, PROF. ROY W(ILLIAM), Econ, see 10th ed, Soc. & Behav. Vols.

JAWANDO, PROF. GANIYU A(LADE), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

JAWORSKYJ, DR. MICHAEL, b. Lvov, Ukraine, Apr. 10, 21; nat; m. 49. POLITICAL SCIENCE. A.B. Hopkins, 54, M.A, 55, Ph.D, 59. Lectr. POLIT. THEORY, HUNTER COL, 59-61, asst. prof, 61-67, ASSOC. PROF, 67- Legal theory; soviet political theory and its philosophical and methodological basis; democracy, socialism and dictatorship; communism. Publ: Soviet political thought, Johns Hopkins, 67; Soviet critique of bourgeois philosophy of law, Ost Europa Recht. Address: Dept. of Political Science, Hunter College, New York, N.Y. 10021.

JAY, DR. EDWARD J, b. Brooklyn, N.Y, May 7, 31; div. ANTHROPOLOGY. B.A, Queens Col.(N.Y), 52; M.A, Chicago, 57, Ph.D.(anthrop), 63. Lectr. ANTHROP, California, Berkeley, 62-63; Queens Col.(N.Y), 63-64; from asst. prof. to ASSOC. PROF, CALIF. STATE COL. HAYWARD, 64-, CHMN. COMP. STUDIES ASIAN CULTURES, 66- Faculty summer fel, Center South Asia Studies, California, Berkeley, 64, asst. res. anthropologist, inst. int. studies, 65-66. Calif. State Col. rep, Dept. Health, Ed. & Welfare Int. Studies Proj, India, 65-66. Med.Serv.C, U.S.A, 52-54. Fel. Anthrop. Asn; Asn. Asian Studies; Asia Soc; Soc. Sci. Study Relig; Ecol. Soc. Am. Social structure and religion of India; sociological theory, particularly activity fields and networks. Address: Dept. of Anthropology & Geography, California State College at Hayward, Hayward, Calif. 94542.

JAY, DR. PHYLLIS CAROL (MRS. J. L. DOLHINOW), b. Elgin, Ill, Nov. 6, 33; m. 68. ANTHROPOLOGY, PRIMATOLOGY. A.B, Beloit Col, 55; A.M, Chicago, 60, Ph.D.(anthrop), 63. Lectr. anthrop, California, Berkeley, 61-62; fel. behav. sci, Center Adv. Study Behav. Sci, 62-63; asst. prof. anthrop, Columbia, 63-64; California, Davis, 64-66, asst. res. anthropologist, Nat. Center Primate Biol, 64-66; ASST. PROF. ANTHROP, CALIFORNIA, BERKELEY, 66- Wenner-Gren Found. Anthrop. Res. grant for primatol. in Africa, 66; co-recipient, Nat. Sci. Found. grant for primate behav. unit, 67- Asn. Phys. Anthrop; fel. Anthrop. Asn; Ecol. Soc; Animal Behav. Soc; Inst. Biol. Sci; Int. Primatol. Asn; Human Ecol. Soc; Wildlife Preservation Soc. India. Primate social behavior and ecology of monkeys and apes in Asia and Africa; human evolution and behavior. Publ: Ed, Primates: studies in adaptation and variability, 68, co-ed, Perspectives in human evolution, 68 & auth, Primate field studies and human evolution, In: Primates: studies in adaptation and variability, 68, Holt. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

JAY, DR. ROBERT R(AVENELLE), b. New York, N.Y, Mar. 22, 25; m. 50; c. 2. SOCIAL ANTHROPOLOGY. B.A, Harvard, 49, M.A, 53, fel. & Ph.D. (anthrop), 57. Asst, center int. studies, Mass. Inst. Tech, 52-55; ANTHROP, Harvard, 56-57; asst. prof, Hawaii, 57-67; ASSOC. PROF, BROWN, 67- Nat. Inst. Ment. Health fel; res. grants, Am. Coun. Learned Socs, 65-66, Nat. Sci. Found, 65-68. U.S. Merchant Marine, 43-46. Fel. Anthrop. Asn; Asn. Asian Studies: Fel. Royal Anthrop. Inst; Royal Netherlands Inst. Ling, Geog. & Ethnol. Social organization; comparative historical analysis of social and cultural change; structural analysis of comparative political behavior; communicative aspects of social relations. Publ: Javanese villagers: social relations in rural Modjokuto, Mass. Inst. Tech, 68; Local government in rural Java, Far East. Quart; Religion and politics in rural Central Java, Yale Southeast Asia Studies, 63. Address: Dept. of Anthropology, Brown University, Brown Station, Providence, R.I. 02912.

JAY, RUTLEDGE LAWRENCE, Psychol, see 10th ed, Soc. & Behav. Vols.

JAYCOX, C(HARLES) MILTON, b. U.S. Sept. 15, 06; m. 30; c. 2. ECONOMICS. B.S, Bowdoin Col, 29; M.A. American Univ, 60. Acct, Chesapeake & Potomac Tel. Co, Md, 29-52, supvr. acct, hqs. staff, 53-58, asst. statistician econ. res, 59-62, statistician bus. res, 62-68; RETIRED. Econ. Asn; Asn. Bus. Econ. Construction of telephone users price index; analysis of current business conditions; construction of business indexes and economic forecasts; measurement of gross state product on a monthly basis for District of Columbia, Maryland, Virginia and West Virginia. Publ: Co-auth, Concept and estimation of gross state product, South. Econ. J, 10/65. Address: Duvall Rd, Woodbine, Md. 21797.

JAYNES, JULIAN, b. West Newton, Mass, Feb. 27, 23. PSYCHOLOGY, PSYCHOBIOLOGY. A.B, Harvard, 44; M.A, Yale, 48. Reader psychol, Toronto, 44-45; res. asst, Yale, 46-48, instr, 53-57; res. assoc, PRINCETON, 64-66, RES. PSYCHOLOGIST, 66-, LECTR. PSYCHOL, 64- Phylogeny of behavior; history of the behavioral sciences; interaction of optic structures and learned behavior; theoretical psychology. Publ: Co-auth, Effects of early experience upon the behavior of animals, Psychol. Bull, 51: 239-263; auth, Imprinting: the interaction of learned and innate behavior. I. Development and generalization, J. Comp. & Physiol. Psychol, 49: 201-206; The routes of science, Am. Scientist, 3/66. Address: Dept. of Psychology, Princeton University, Princeton, N.J. 08540.

JAYNES, DR. WILLIAM E(LBERT), b. Columbus, Ohio, June 5, 28; m. 51; c. 5. INDUSTRIAL PSYCHOLOGY. B.S, Ohio State, 50, M.A, 52, Ph.D. (psychol), 55. Res. assoc. psychol, Ohio State, 55; asst. prof, Omaha, 58-61, assoc. prof, 61-63, prof, 63-67, head dept, 61-67, dir. bur. indust. testing & instnl. res, 58-65; PROF. PSYCHOL. & HEAD DEPT, OKLA STATE, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. U.S.A, 55-58, Res, 58-62, Capt. Psychol. Asn; Statist. Asn; Psychomet. Soc. Quantitative social psychology. Publ: Co-auth, The human factor in insurance claim adjusting, Ins. Inst. Am, 63; auth, A general trait theory of personality for use in industry, Proc. Soc. Personnel Admin, 64. Address: Dept. of Psychology, Oklahoma State University, Stillwater, Okla. 74075.

JAZAIRI, DR. NURI T, b. Basrah, Iraq, Aug. 1, 41. ECONOMICS, STATISTICS. B.A, Baghdad, 62; M.Sc, London Sch. Econ, 65, Ph.D.(econ. statist), 67. ASST. PROF. ECON, York (Ont), 67-68; GRAD. DIV. BUS. ADMIN, IONA COL, 68- Econ. Asn. Foreign trade statistics. Address: Dept. of Economics, Iona College Graduate Division of Business Administration, New Rochelle, N.Y. 10801.

JEAN, SISTER GABRIELLE L(UCILLE), b. Lowell, Mass, Apr. 8, 24. PSYCHOLOGY. B.A, Rivier Col, 54; M.Ed, Boston Col, 57, Ph.D.(psychol), 61. Res. asst. testing, Lang. Res, Inc, Harvard, 58-60; instr. PSYCHOL, Marillac Col, 61-62; asst. prof, Rivier Col, 62-64; ASSOC. PROF, R.I. COL, 64-, CHMN. DEPT, 67- Lectr, St. Joseph Hosp. Sch. Nursing, Lowell, Mass, 59-61. Consult, Psychol. Serv, Proj. Headstart & Follow-Through, 67- Psychol. Asn; Ed. Res. Asn. Thinking and motivation; creativity. Publ: Bilingualism and Wechsler vocabulary scales, J. Clin. Psychol, 7/65; Do teachers need more preparation in psychology?, J. Teacher Ed, spring 68. Address: Rhode Island College, 600 Mt. Pleasant Ave, Providence, R.I. 02908.

JEANS, DR. ROBERT F(REDERICK), Psychiat, see 11th ed. Phys. & Biol. Vols.

JEBE, DR. EMIL H, Exp. Statist, see 11th ed, Phys. & Biol. Vols.

JEDAMUS, PROF. PAUL E(RWIN), b. Wausau, Wis, Feb. 1, 23; m. 52; c. 4. STATISTICS. B.S, Wisconsin, 44, M.B.A, 49, Ph.D, 55. Asst. prof. BUS. STATIST, COLORADO, 53-57, assoc. prof, 57-60, PROF, 60-, DIR. OFF. INSTNL. RES, 64- Consult, Asn. State Supported Insts. Higher Ed, Colo, 56- U.S.A, 45-47. Statist. Asn; Asn. Instnl. Res; Inst. Mgt. Sci. Application of statistics and economics to institutions of higher education. Publ: Analysis of class size, teaching loads and instructional salary costs; analysis of the budgets of the Colorado State supported institutions of higher education. Address: School of Business, University of Colorado, Boulder, Colo. 80302.

JEEVES, DR. T(ERRY) A(LLEN), Math. statist, see 11th ed, Phys. & Biol. Vols.

JEFFERSON, DR. CARTER, European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JEFFERY, PROF. C(LARENCE) RAY, b. Pocatello, Idaho, May 14, 21; m. 47; c. 1. SOCIOLOGY. Fel. & Ph.D.(sociol), Indiana, 54. Lectr. sociol, Southern Illinois, 54-56; instr, Colby Col, 54-57; asst. prof, Arizona State, 57-60, assoc. prof, 60-66; PROF. PUB. ADMIN, GRAD. SCH. PUB. ADMIN, N.Y. UNIV, 66-; VIS. MEM, WASH. SCH. PSYCHIAT, 66- Sr. fel, law sch, Chicago, 58-59; Soc. Sci. Res. Coun. summer fel, 60. Sociol. Asn; Acad. Polit. & Soc. Sci. Criminology; sociology of criminal law; social theory. Publ: Structure of American criminological thinking, J. Criminal Law, Criminol. & Police Sci. Address: Washington School of Psychiatry, 1610 New Hampshire Ave. N.W, Washington, D.C. 20009.

JEFFRESS, PROF. LLOYD A(LEXANDER), Psychol, see 11th ed. Phys. & Biol. Vols.

JEFFREY, DR. ARTHUR D(AVID), b. Altoona, Pa, Apr. 28, 17; div; c. 2. ECONOMICS. B.S, Pa. State, 39, M.S, 53, Ph.D, 56. Asst. prof. mkt, Cornell, 55-59; ASSOC. PROF. AGR. ECON, RHODE ISLAND, 59- U.S.N, 43-46, Res, 46-, Lt. Comdr. AAAS; Econ. Asn; Agr. Econ. Asn. Theory of consumer behavior, attitude and value analysis; applied economics in land use and economic land classification. Publ: Application of scalogram analysis in agricultural economics research, J. Farm Econ; Consumption response to a large increase in the retail price of fluid milk, Cornell Exp. Sta. Bull; Present use and economic classification on non-urban land in Rhode Island. Address: One Post Rd, Wakefield, R.I. 02879.

JEFFREY, K(ERMIT) C, b. Sacramento, Calif, Dec. 3, 13; m. 45; c. 2. BUSINESS ADMINISTRATION, ECONOMICS. A.B, Stanford, 35, M.B.A, 37. Cost acct. CALIF. & HAWAIIAN SUGAR REF. CORP, 38-39, mkt. analyst, 39-44, econ. analyst, 46-50, asst. dir. planning & statist, 50-54, DIR, 54-60, MKT. PLANNING, 60- Lectr, sch. bus. Stanford, 58-, trustee, Stanford Bus. Sch. Trust. U.S.N.R, 44-46, Lt. Opers. Res. Soc; Econ. Asn; Mkt. Asn. Marketing research. Address: 215 Market St, San Francisco, Calif. 94106.

JEFFREY, PROF. THOMAS E(DWARD), Psychol, see 10th ed, Soc. & Behav. Vols.

JEFFREY, PROF. W(ENDELL) E(VERETT), b. Des Moines, Iowa, Mar. 4, 23; m. 52. PSYCHOLOGY. B.A, Iowa, 48, M.A, 50, Ph.D, 51. Instr. PSYCHOL, Barnard Col, Columbia, 51-53, asst. prof, 53-55; CALIFORNIA, LOS ANGELES, 55-59, assoc. prof, 59-68, PROF, 68- Consult, Vet. Admin, 57-; Head Start, 65- U.S.A, 43-45. AAAS; Psychol. Asn; Soc. Res. Child Develop. Developmental psychology; cognitive development; early experience; language. Publ: Varibles affecting reversal shifts in young children, Am. J. Psychol, 65; Discrimination of oblique lines by children, J. Comp. Physiol. Psychol, 66; co-auth, Effect of method of reading training on initial learning and transfer, J. Verbal Learning & Verbal Behav, 67. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

JEFFREYS, DR. A(LVIS) W(ALDO), JR, b. South Hill, Va, Mar. 13, 23; m. 48; c. 2. PSYCHOLOGY. B.A, Virginia, 48; M.A, Michigan, 50; Ph.D.(psychol), Houston, 53. Asst. prof. psychol, William & Mary Col, 53-54; CHIEF PSY-

CHOLOGIST, WEST. STATE HOSP, 54- U.S.N,R, 43-45, Lt. Psychol. Asn; Soc. Proj. Tech; Acad. Psychother. Personality functions; psychopathology; clinical diagnosis of abnormal behavior. Publ: A study of concept formation; Recent research in perception; Who is the patient. Address: Drawer 1080, Staunton, Va. 24401.

JEHLIK, DR. PAUL J(OSEPH), b. Republic City, Kans, June 29, 08; m. 32; c. 3. SOCIOLOGY. B.S, Kans. State Teachers Col, Emporia, 31; Kansas, 32; West. State Col.(Colo), 33; Colo. State Col, 36; La. State, 42; Ph.D. (rural sociol), Iowa State Col, 52. Field rep. & ed, div. soc. res, Colo. State Col, 35-37; placement officer & asst. mgr, U.S. Employ. Serv, Colo, 37; admin. asst, U.S. Bur. Agr. Econ, U.S. DEPT. AGR, 38-39, soc. sci. analyst, Agr. Mkt. Serv, Texas, Nebr, Ohio, Ga, Iowa, 39-55, PRIN. RURAL SOCIOLOGIST, COOP. STATE RES. SERV, 55-, ACTING DIR. ECON, MKT, RURAL & COMMUNITY DEVELOP, 67- AAAS; Sociol. Asn; Rural Sociol. Soc; Agr. Econ. Asn; Pop. Asn. Social organization; educational sociology; demography; human ecology. Publ: Co-auth, Rural organization in progress, Bull, Exp. Sta, Iowa State Univ; Rural social organizations in Henry County, Indiana, Res. Bull, Exp. Sta, Purdue Univ; Population change and migration in the North Central States, 1940-1950, Res. Bull, Exp. Sta, Iowa State Univ. Address: 6614 Van Winkle Dr, Falls Church, Va. 22044.

JEHRING, JOHN JAMES, b. Dubuque, Iowa, Feb. 6, 12; m. 41. ECONOMICS, INDUSTRIAL RELATIONS. B.A, Loras Col, 34; Catholic Univ, 40; M.S, Iowa, 46. Lectr. indust. rels, Cornell, 46, asst. prof, 46-53; dir, Profit Sharing Res. Found, Ill, 53-60; SR. SCIENTIST & DIR, CENTER PRODUCTIVITY MOTIVATION, GRAD. SCH. BUS, WISCONSIN, 60- Consult, S.C. Johnson & Son, Inc, 60. Ed, Wis. Productivity Letter, 65- U.S.-S.Africa leader, Exchange Prog, 66; mem, Cmt. Int. Progress Mgt, 67-68. Econ. Asn; Indust. Rel. Res. Asn; Planning Asn. Profit sharing; wages; communications; productivity motivation; total group motivation in business; systems incentives. Publ: Succeeding with profit sharing; ed, Productivity and automation, Nat. Coun. Soc. Studies, 67; auth, Essays on profit sharing, Center Study Productivity Motivation, 67. Address: 1655 Capital Ave, Madison, Wis. 53705.

JELINEK, DR. ARTHUR J, Anthrop, see 11th ed. Phys. & Biol. Vols. & Suppl. IV.

JELINEK, DR. RICHARD CARL, b. Prague, Czech, Apr. 3, 37; m. 59; c. 2. INDUSTRIAL ENGINEERING. B.S.E, Michigan, 61, M.B.A, 62, W.K. Kellogg res. fel, 62, Ph.D.(indust. eng), 64. Mgr. Jelinek Cork Co, 56-58; res. asst, mech. eng. dept, MICHIGAN, 58-62, lectr. indust. eng, 62-63, ASST. PROF. INDUST. ENG. & HOSP. ADMIN, 64- Consult, Univ. Michigan Med. Center, St. Joseph Mercy Hosp, Ann Arbor, 59-62; Ypsilanti State Hosp, 59-62; Community Systs. Found, 65-; Vet. Admin, 65- Mem, Nat. Adv. Panel on Application of Info. Systs. to Hosp, 65- Commendation, President's Cmt. on Employ. of Physically Handicapped, 61. Opers. Res. Soc. Am; Inst. Mgt. Sci; Hosp. Mgt. Systs. Soc; Inst. Indust. Eng. Health management control systems; prediction of human performance. Address: Dept. of Industrial Engineering & Hospital Administration, University of Michigan, Ann Arbor, Mich. 48104.

JELKS, PROF. EDWARD B(AKER), b. Macon, Ga, Sept. 10, 22; m. 44; c. 1. ARCHAEOLOGY. B.A, Texas, 48, M.A, 52, Ph.D.(anthrop), 65. Archaeologist, Smithsonian Inst, 50-53; Nat. Park Serv, 53-58; res. scientist archaeol, Texas, 58-65, assoc. prof. ANTHROP, Southern Methodist, 65-68; PROF, ILLINOIS STATE, 68- Res. assoc, Smithsonian Inst, 68. U.S.N.R, 42-45, Lt.(jg). AAAS; Soc. Am. Archaeol; Soc. Hist. Archaeol. (pres, 68). North American archaeology, especially prehistoric archaeology of Texas; historic Indian archaeology; English and Spanish colonial archaeology. Publ: Co-auth, Introduction handbook of Texas archaeology, Bull. Tex. Archaeol. Soc, 54. Address: Dept. of Sociology and Anthropology, Illinois State University, Normal, Ill. 61761.

JELLISON, DR. R(ICHARD) M(ARION), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JEN, DR. FRANK CHIFENG, b. Shanghai, China, May 15, 31; m. 62; c. 2. FINANCE. B.Sc, N.Cent. Col.(Ill), 59; Earhart Found. fel, Wisconsin, 59-60, M.B.A, 60, univ. fel, 60-61, Knapp Found. fel, 61-62, Ph.D.(finance), 63. Asst. mgr, Am. Int. Underwriters Ltd, 48-57; teaching asst. FINANCE, Wisconsin, 59-60, instr, 60-61; asst. prof, Western Michigan, 62-64; STATE UNIV. N.Y, BUFFALO, 64-66, ASSOC. PROF, 66- Summers, res. grant opers. res, Michigan, 64 & mem. res. workshops bus. finance, Harvard, 65 & 67. Valuation of securities; assets management, including capital budgeting and bank management; industrial organizations. Publ: Co-auth, Imputed yields of sinking fund bonds and the term structure of interest rates, 12/66 & The effect of call risk on corporate bond yields, 12/67, J. Finance; co-auth, Optimal capacities of production facilities, Mgt. Sci, 6/68. Address: Dept. of Finance & Management Science, State University of New York at Buffalo, Crosby Hall, Library Circle, Buffalo, N.Y. 14214.

JENCKS, DR. CLINTON EDWARD, b. Colorado Springs, Colo, Mar. 1, 18; m; c. 5. ECONOMICS. B.A, Colorado, 39; M.A, California, Berkeley, 63, Ph.D. (econ), 64. Union rep, Int. Union Mine, Mill & Smelter Workers, 47-56; asst. prof. ECON, SAN DIEGO STATE COL, 64-67, ASSOC. PROF, 67- Calif. State Cols. spec. faculty res. leave, 67; res. grants-in-aid, San Diego State Col. Found, 67, Am. Coun. Learned Socs, summer, 67, Louis M. Rabinowitz Found, 67-68 & Int. Union Mine, Mill & Smelter Workers, 67-68. U.S.A.A.F, 42-45, 1st Lt. Econ. Asn; Indust. Rels. Res. Asn. Industrial relations; labor history, industrial organization. Publ: Auth, After nationalization, San Diego State Col, 68; British coal mining: labor relations changes since nationalization, Indust. Rels, 10/66; Social status of coal miners since nationalization, Am. J. Econ. & Sociol, 7/67. Address: Dept. of Economics, San Diego State College, San Diego, Calif. 92115.

JENKIN, DR. NÖEL, b. Wanganui, N.Z, May 15, 18; m. 53; c. 2. PSYCHOLOGY. B.A, New Zealand, 51, M.A, 53; Ph.D.(soc. psychol), Harvard, 57. Lectr. psychol, Victoria Univ, N.Z, 53; asst. prof, New Brunswick, 55-56; res. psychologist, Vineland Training Sch, N.J, 56-58; lectr. psychol, Sydney, Australia, 58-59; DIR. RES, INST. JUVENILE RES, 60- Prof, col. med, Illinois, 66- Soc. Res. Child Develop; fel. Am. Psychol. Asn; Psychonomic Soc; Soc. Psychol. Study Social Issues; assoc. Brit. Psychol. Soc. Visual perception; size depth cognition; affective processes in perception; perceptual development; perception in the brain-damaged; personality, social and sexual development. Publ: Affective processes in perception, Psychol. Bull; Relationship between increments of distance and estimates of objective size & Developmental and intellectual processes in size-distance judgement, Am. J. Psychol. Address: Institute for Juvenile Research, Research Headquarters, 232 E. Ohio St, Chicago, Ill. 60611.

JENKIN, DR. THOMAS P(AUL), b. Elcho, Wis, June 3, 15; m. 38. POLITICAL SCIENCE. B.A, Lawrence Col, 37; M.A, Michigan, 39, Ph.D, 43. Instr. polit. sci, CALIFORNIA, Los Angeles, 42-45, asst. prof, 45-50, assoc. prof, 50-56, prof, 56-63, chmn. dept, 52-56, prof. & dean col. letters & sci, RIVERSIDE, 63-65, V.CHANCELLOR, 65- Haynes Found. grant-in-aid, 49-50; Rockefeller Found. res. grant, 56-57. Med.Admin.C, U.S.A, 43-46, Lt. Polit. Sci. Asn; Acad. Polit. Sci. Political theory; reactions of major groups to governmental positivism. Publ: Co-auth, Government in the United States, 1930-1940, 45; auth, The study of political theory; British election studies, 51. Address: University of California, Riverside, Calif. 92502.

JENKINS, ARTHUR CLYDE, b. Bellingham, Wash, May 9, 03; m. 24; c. 1. ENGINEERING, ECONOMICS. B.S, California, 31; Indust. Col. Armed Forces, 33. OWNER, ARTHUR C. JENKINS & ASSOCS, 48- Res. engr, State Pub. Utilities Cmn, Calif, 31-42; v.pres. & gen. mgr, Grayline, Inc, Fialers Limousines, Inc. & Yosemite Grayline Limousines Inc, 46-47; gen. consult. & transportation mgr, Key Syst. Transit Lines, 47-48; pres, Transco Engrs, Inc, 48-50; v.pres, Fiberaised Bar & Line Co, 50-55; chief transportation div, State Off. Civil Defense, Calif, 52-54; chief engr, Golden Gate Bridge & Hwy. Dist, 64-67. Transportation consult, 48- U.S.N, 42-46, Res, 46-, Comdr. Soc. Civil Eng; Soc. Mil. Eng; Soc. Automotive Eng; Inst. Elec. & Electronics Eng; Inst. Traffic Eng. Transportation, transit and traffic in engineering design, planning, management, operation, organization, finance, regulation, civil defense, military deployment, public ownership, metropolitan coordination and nation emergency requirements; metropolitan transportation; traffic and rapid transit. Publ: Long range planning survey; Municipal railway of San Francisco, economics and organization; Urban mass passenger transportation of Los Angeles, analytical survey. Address: 1780 Arch St, Berkeley, Calif. 94709.

JENKINS, DR. C(ARLYLE) DAVID, b. Oak Park, Ill, Apr. 13, 28; m. 57; c. 2. PSYCHOLOGY. A.B, Chicago, 50, A.M, 53; Ph.D, North Carolina, 60. Asst, cmt. human develop, Chicago, 52; psychologist, ment. hyg. sect, Chicago Bd. Health, 53-56; U.S. Pub. Health Serv. trainee & intern. clin. psychol, NORTH CAROLINA, CHAPEL HILL, 56-59, psychologist, N.C. Mem. Hosp, 59, res. assoc. EPIDEMIOL, SCH. PUB. HEALTH, 59-60, asst. prof, 60-64, ASSOC. PROF, 64-, CLIN. ASSOC. PROF. PSYCHOL, DEPT. PSYCHIAT, SCH. MED, 65-, clin. asst. prof, 63-65. Psychol. Asn; Pub. Health Asn; Psychosom. Soc. Epidemiology; applications of behavioral science to public health problems; behavioral factors in coronary-heart disease; psychological measurement. Publ: Co-auth, Lead poisoning in children: a study of 46 cases, Am. Med. Asn. Arch. Neurol. Psychiat; Epidemiology of polio vaccine acceptance, Fla. State Bd. Health Monogr, 62; Components of the coronary-prone behavior pattern, J. Chronic Diseases, 66. Address: Dept. of Epidemiology, University of North Carolina School of Public Health, Chapel Hill, N.C. 27514.

JENKINS, PROF. DAVID H(IBBS), b. Bellingham, Wash, Dec. 9, 16; m. 44; c. 1. SOCIAL PSYCHOLOGY. B.S, State Col. Wash, 41; M.A, Minnesota, 42; Ph.D.(soc. psychol), Michigan, 52. Lectr. ed, sch. ed, Michigan, 49-52; res. assoc, coop. prog. ed, admin, Ohio State, 52-53; ed, Adult Leadership, Adult Ed. Asn, 53-55; assoc. prof. ed, col. ed, TEMPLE, 55-62, PROF. ED. PSYCHOL. & PSYCHOL, 62-, DIR. GROUP DYNAMICS CENTER, 55-, chmn. dept. ed. psychol, univ, 64-67. U.S.A.A.F, 42-45, 2nd Lt. Fel. Psychol. Asn; fel. Sociol. Asn; Soc. Gen. Syst. Res; fel. Nat. Training Labs. Publ: Co-auth, Interpersonal perceptions of teachers, students and parents; Antecedants and effects of administrative behavior. Address: Dept. of Educational Psychology, Temple University, Philadelphia, Pa. 19122.

JENKINS, DR. GEORGE DAVID, b. Lander, Wyo, Mar. 3, 34; m. 59; c. 2. POLITICAL SCIENCE. B.A, Whittier Col, 58; Free Univ. Berlin, 58-59; Prog. African Studies fel. & Ph.D.(polit. sci), Northwestern, 65. Instr. POLIT. SCI, Northwestern, 63-64; ASST. PROF, WISCONSIN, MILWAUKEE, 64- Vis. asst. prof, California, Los Angeles, 67-68. Ed, African Urban Notes, 66- Polit. Sci. Asn; African Studies Asn. Urban politics in Africa. Publ: Africa as it urbanizes, Urban Affairs Quart, 3/67; Violence in urban Africa, Am. Behav. Scientist, 3/68. Address: Dept. of Political Science, University of California, Los Angeles, Calif. 90024.

JENKINS, PROF. H(ARRY) P(ERCY) B(ELL), Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

JENKINS, PROF. H(ERBERT) M(ILES), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

JENKINS, DR. HOLMAN WEISER, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

JENKINS, PROF. JAMES J(EROME), b. St. Louis, Mo, July 29, 23; m. 46; c. 4. PSYCHOLOGY. A.B, William Jewell Col, 47; B.S, Chicago, 44; M.A, Minnesota, 48, Ph.D.(psychol), 50. Instr. PSYCHOL, MINNESOTA, 48-51, asst. prof, 51-56, assoc. prof, 56-59, PROF, 59-, DIR. RES, CENTER RES. HUMAN LEARNING, 65- Fel, Center Adv. Study Behav. Sci, 58-59, 64-65. Consult, aphasia clin, Vet. Admin. Hosp, Minneapolis, Minn, 57-66. Mem. cmt. ling. & psychol, Soc. Sci. Res. Coun, 54-61, chmn, 58-60; Nat. Insts. Health Behav. Sci. Study Sect, 60-64. U.S.A.A.F, 42-46. AAAS; Psychol. Asn. Language behavior; cognitive processes; information processing. Publ: Co-auth, Studies in individual differences, Appleton, 61; Aphasia in adults, Harper, 64; Word association norms: grade school through college, Univ. Minnesota, 64. Address: 2252 Folwell St, St. Paul, Minn. 55108.

JENKINS, DR. JOAN W(ILLIAMS), b. Detroit, Mich, Dec. 4, 29; m. 61. CLINICAL PSYCHOLOGY. B.A, Bryn Mawr Col, 51; M.A, Michigan, 53, Ph.D, 59. Instr. psychol, North Carolina, 58-60, asst. prof, 61-64; RES. PSYCHOLOGIST, DIV. MANPOWER & TRAINING, NAT. INST. MENT. HEALTH, 66- Psychol. Asn. Process of session and therapist's contribution in psychotherapy. Publ: Co-auth, Psychoanalysists as expert observers of the therapy process, J. Consult. Psychol; Some determinants of clinical evaluations of different psychiatrists, Am. Med. Asn. Arch. Gen. Psychiat; Effects of two methods of response in a quasi-therapeutic situation, J. Clin. Psychol. Address: 5403 Greystone St, Chevy Chase, Md. 20015.

JENKINS, DR. KENNETH FRANK, b. Portsmouth, Eng, June 11, 16; nat; m. 41; c. 3. PSYCHOLOGY, SOCIOLOGY. A.B, Wayne State, 48, M.A, 53; Ph.D, Michigan, 59. Acad. counsr, col. lib. arts, Wayne State, 48-52; DIR. STUDENT GUID. & COUNSELING, CLEVELAND STATE, 53- Field assessment officer, Peace Corps Center, Univ. Wisconsin, Milwaukee, 67. Consult, Mt. Sinai Hosp, Cleveland, Ohio, 61-62. U.S.A.A.F, 42-45. Psychol. Asn; Personnel & Guid. Asn. Effectiveness of the telephone as a medium for follow up interviews; effects of group counseling with bright underachieving college freshmen; group counseling as a mental hygiene process for students of nursing. Address: Cleveland State University, 24th & Euclid, Cleveland, Ohio 44115.

JENKINS, DR. MARION PAULINE, b. New Haven, Conn, Oct. 13, 97; m. 26. CLINICAL PSYCHOLOGY. B.S, Columbia, 25, M.A, 26, Ph.D.(psychol), 28. Psychologist, Syracuse State Sch, N.Y, 25-26; psychiat. clin, Children's Court, New York, 26-27; Bd. Ed, 27-42; psychologist, Bur. Child Guid, 42-61; RETIRED. Teacher, N.Y. Univ, 31, 45-60. Consult, Am. Mus. Nat. Hist, New York. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Orthopsychiat. Asn. Animal psychology; projective methods; behavior problems of children. Publ: Industrial classification of girls based on personality and intelligence ratings; Development of homosexual tendencies in the white rat; Modern trends in the psychology of maladjusted school children. Address: 241 Howard Ave, New Haven, Conn. 06519.

JENKINS, PRES. MARTIN DAVID, b. Terre Haute, Ind, Sept. 11, 04; m. 27. EDUCATIONAL PSYCHOLOGY. B.S, Howard, 25; A.B, Ind. State Col, 30; M.S, Northwestern, 33, Ph.D, 35; hon. LL.D, Univ. Liberia, 60, Howard, 65; D.H.L, Del. State Col, 61. Prof. ed, Agr. & Tech. Col. N.C, 35-37; dean, Cheyney State Teachers Col, 37-38; prof. ed. psychol, Howard, 38-48; PRES, MORGAN STATE COL, 48- Sr. specialist, U.S. Off. Ed, 40-41. Mem, President's Cmt. Vet. Benefits, 57; President's Cmt. Phys. Fitness, 58. Dipl, Am. Bd. Prfnl. Psychol. Psychol. Asn. Gifted children; higher education. Publ: Black and white of rejections for military service; Differential characteristics of superior and unselected Negro college students, J. Soc. Psychol; Upper limit of ability among American Negroes, Sci. Monthly. Address: Morgan State College, Baltimore, Md. 21212.

JENKINS, PROF. NORA C(ONGDON), b. Ft. Collins, Colo, Mar. 16, 06; m. 48. APPLIED PSYCHOLOGY. A.B, Wheaton Col, 27; A.M, Colo. State Col. Ed, 32, Ph.D, 40. Asst. dir. personnel & dir. off. personnel records & res, Colo. State Col. Ed, 32-47; res. asst. to pres, Minn. State Teachers Col, Moorhead, 48-51; psychometrist, State Ment. Hyg. Clin, Ala, 51-52; res. asst. & off. mgr, Community Survs, Inc, Ind, 54-56; testing & res. asst, student counseling center & asst. prof. psychol, Baylor, 56-58; assoc. prof. ed. & psychol. & dir. testing serv, Corpus Christi, 58-66; PROF. PSYCHOL. & HEAD DEPT, MOBILE COL, 66- Consult, Civil Aeronaut. Admin, D.C, 43-44. Psychol. Asn; Personnel & Guid. Asn; Col. Personnel Asn. College personnel; testing and evaluation. Publ: Community Chest: a case study in philanthropy; 1940 report on the cooperative testing program of the Teachers College Personnel Association; Personnel records and forms, In: Student personnel services. Address: Mobile College, Box 13220, Mobile, Ala. 36613.

JENKINS, DR. QUENTIN, b. Grand Island, Nebr, Nov. 8, 31; m. 59; c. 2. SOCIOLOGY. B.S, Iowa State, 53, M.S, 61, Ph.D.(sociol), 66. ASST. PROF. SOCIOL, LA. STATE, 66- U.S.A, 53-57, Res, 57-, Capt. Sociol. Asn; Rural Sociol. Soc. Social change; Latin America; rural sociology; community development. Address: Dept. of Sociology, Louisiana State University, Baton Rouge, La. 70803.

JENKINS, DR. RICHARD L(EOS), b. Brookings, S.Dak, June 3, 03; m. PSYCHIATRY. A.B, Stanford, 25; M.D, Rush, Chicago, 30. Instr. physiol, Chicago, 30-31; instr. juvenile behavior, dept. criminol, social hygiene & med. jurisp, col. med, Illinois, 32-33, assoc, 33-34, asst. prof. juvenile behavior & physiol, 34-36; mem. staff & Rockefeller Found. fel. psychiat, Henry Phipps Psychiat. Clinic, Hopkins Hosp. & psychiat. div, Bellevue Hosp, N.Y, 36-38; psychiatrist, N.Y. Training Sch. Boys, 38-41; instr. psychiat, med. sch, Michigan, 41-43; psychiatrist, Inst. Juvenile Res, Chicago, 43-44, acting supt, 44-46; health serv, Illinois, 45-49; chief psychiat. res, U.S. Veterans Admin, 49-55, dir. psychiat. evaluation proj, 55-61; PROF. CHILD PSYCHIAT, IOWA, 61- Pediatrician, Inst. Juvenile Res, 31-36; psychiatrist, Mich. Child Guid. Inst, Ann Arbor, 41-43; Champaign-Urbana Guid. Clin, Ill, 45-46. Mem. cmt. areawide planning facilities mentally retarded, Dept. Health, Ed. & Welfare, 63-64, mem. ment. retardation grant rev. cmt, 65-68. Fel. Am. Med. Asn; fel. Psychiat. Asn; fel. Orthopsychiat. Asn; fel. Acad. Child Psychiat. Classification, family background and treatment in child psychiatry and juvenile delinquency. Publ: Breaking patterns of defeat, Lippincott, 54; Diagnoses, dynamics and treatment in child psychiatry, Psychiat. Res. Report 18, Am. Psychiat. Asn, 64; The psychopathic or antisocial personality, J. Nervous & Ment. Disease, 131: 318-334. Address: Dept. of Psychiatry, University of Iowa, Iowa City, Iowa 52240.

JENKINS, DR. ROBERT S(PURGEON), b. Wellston, Ohio, Oct. 24, 21; m. 46; c. 4. ECONOMICS. A.B, Denison, 46; M.A, Ohio State, 48, Ph.D.(econ), 51. With Ford Motor Co, 51-54, staff asst, off. exec. v.pres, car & truck divs, 55-58, mgr. mkt. admin, Lincoln-Mercury Div, 59-62, sales & mkt. mgt, mgr, 63-64; SR. DIR. PERSONNEL ADMIN, TRANS WORLD AIRLINES, 65- Prof, eve. div, Henry Ford Community Col, 59-63; guest lectr, transportation mgt. sch, Northwestern, 67- U.S.A.A.F, 42-46. Mgt. Asn; Econ. Asn. State and local government finance; financial management; business management and administration. Publ: Financing public education in Ohio; French multiple currency system; Management development. Address: 21 Stephanie Lane, Darien, Conn. 06820.

JENKINS, PROF. THO(MA)S N(ICHOLAS), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 62.

JENKINS, DEAN WILLIAM M, JR, b. Guthrie, Ky, Sept. 12, 18; m. 46; c. 1. BUSINESS ADMINISTRATION, POLITICAL SCIENCE. B.A, The Citadel, 41; M.A, Kentucky, 57, Ph.D.(polit. sci), 60. Asst. coordinator, Univ. Ky. Indonesian Proj, 56-59; asst. prof. hist. & polit. sci, WESTERN KENTUCKY, 59-61, prof. govt. & head dept. bus. & govt, 61-64, DEAN BOWLING GREEN COL. COMMERCE, 64- U.S.A, 41-46. Polit. Sci. Asn. Relationship between science and governmental administrators; comparative local government. Publ: Co-auth, Nepal, a physical & cultural geography, Univ. Ky. Press, 60; The Himalayan kingdoms, Van Nostrand, 63; Kentucky law and the cities, Bull 51, Ky. Legis. Res. Cmn, 6/66. Address: Bowling Green College of Commerce, Western Kentucky University, Bowling Green, Ky. 42101.

JENKINS, PROF. WILLIAM O(LIVER), b. New York, N.Y, Nov. 7, 16; m. 44; c. 2. PSYCHOLOGY. A.B, Colgate, 38; Sc.M, Brown, 39; Ph.D.(psychol), Yale, 42. Asst, Yerkes Labs. Primate Biol, 42; staff res, U.S. Air Force, D.C, 42-46; Wright Field, Ohio, 46; instr. psychol, Indiana, 46-47, asst. prof, 47-48; lectr, Harvard, 48-52; prof. & dir. lab, Tennessee, 52-62; PROF. PSYCHOL. & SR. RES. ASSOC, CITY UNIV. N.Y, 66- Res. consult, Vet. Admin, 53-, intern, 62-63; consult, Guid. Serv, New York, 63- Psychol. Asn. Learning and conditioning theory; experimental design and statistics. Publ: Co-auth, Systematic observation of gross human behavior, Grune, 61; Rehearsal and guessing habits as sources of the spread of effect, J. Exp. Psychol; Temporal gradient of derived reinforcement, Am. J. Psychol. Address: Dept. of Psychology, City University of New York, New York, N.Y. 10021.

JENKINS, PROF. WILLIAM S(UMNER), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

JENKS, PROF. GEORGE F(REDERICK), b. Oneonta, N.Y, July 9, 16; m. 43; c. 3. GEOGRAPHY. B.S, N.Y. State Teachers Col.(Albany), 41; M.A, Syracuse, 47, Ph.D, 50. From assoc. prof. to PROF. GEOG, KANSAS, 49- Fund Adv. Ed. fel, 51-52. Cartog. consult, U.S. Bur. Census. U.S.A.A.F, 41-45, Lt. Asn. Am. Geog; Geog. Soc; Cong. Surv. & Mapping. Cartography; agricultural geography. Publ: Co-auth, Three-dimensional map construction, Science, 11/66; Vertical exaggeration in three-dimensional mapping & Viewing points for three-dimensional maps, 7/67, Off. Naval Res. Tech. Report. Address: 1932 Hillview Rd, Lawrence, Kans. 66044.

JENKS, DR. LELAND H(AMILTON), Econ. Hist, see 10th ed, Soc. & Behav. Vols.

JENNER, J(OHN) SLATEN, Econ, see 10th ed, Soc. & Behav. Vols.

JENNESS, PROF. ARTHUR, b. Rosario de Santa Fe, Argentina, Jan. 6, 01; m; c. 1. PSYCHOLOGY. B.A, Northwestern, 23, M.A, 27; fel, Syracuse, 27-29, Ph.D.(psychol), 30. Instr. PSYCHOL, Syracuse, 29-30; from instr. to prof. & chmn. dept, Nebraska, 30-46; chmn. dept, WILLIAMS COL, 46-62, prof, 46-66, EMER. PROF, 66-; PROF. & CHMN. DEPT, N.C. WESLEYAN COL, 66- Vis. lectr, Harvard & Radcliffe Cols, 37-39. Mem, cmt. on Latin-Am. psychol, Nat. Res. Coun, 40-46. Dipl, Am. Bd. Exam. Prfnl. Psychol. & Am. Bd. Exam. Psychol. Hypnosis. U.S.A.A.F, 43-44, Lt. AAAS; fel. Psychol. Asn; Psychonomic Soc. Facial and bodily expression; behavior in groups; hypnosis. Publ: Collab, Dictionary of psychology; Personality and the behavior disorders. Address: Dept. of Psychology, North Carolina Wesleyan College, Rocky Mount, N.C. 27801.

JENNESS, DR. D(IAMOND), b. Wellington, N.Z, Feb. 10, 86; m. 19; c. 3. ANTHROPOLOGY. M.A, New Zealand, 08, hon. Litt.D, 35; dipl, Oxford, 10, M.A, 11, Oxford scholar, Papua, 11-12; LL.D, Waterloo, 62, Saskatchewan, 65; hon. D.Sc, McGill, 63. Anthropologist, Geol. Surv. Can, 13-26; chief div. anthrop, Nat. Mus, 26-48; RES. & WRITING, 48- Ethnologist, Can. Arctic Exped, 13-16. R.C.A.F, 41-45. Anthrop. Asn; fel. Royal Soc. Can. Ethnography of the D'Entrecasteaux Archipelago, Papua; Eskimo ethnology and archaeology. Publ: Indians of Canada; Economics of Cyprus, McGill Univ, 62; Eskimo administration, In: Tech. Papers of Arctic. Inst. N.Am, 62, 64, 65, 67, 68. Address: R.R. 3, Wakefield, Que, Can.

JENNESS, DR. JOHN L(EWIS), b. Ottawa, Ont, Feb. 9, 22; m. 53; c. 3. GEOGRAPHY. B.A, Cambridge, 47, M.A, 52; Ph.D.(geog), Clark, 51. Geogr, Dept. Mines & Tech. Survs, Can, 47-49; assoc. prof. geog, Pittsburgh, 51-58, mem. grad. sch. faculty, 55-58; CHIEF econ. div, Dept. North. Affairs & Nat. Resources, Can, 58-65; RESOURCES RES. DIV, DEPT. ENERGY, MINES & RESOURCES, 65- Dir. res, Regional Indust. Develop. Corp, Pa, 56-58. Royal Geog. Soc. univ. essay award, 48. Can. Army, 42-46, Capt. AAAS; Arctic Inst. N.Am; Can. Econ. Asn; Can. Asn. Geog; Royal Geog. Soc. Area economic analysis; resource development and transportation policy advisory functions, especially Canada's national resources and underdeveloped territories; multi-disciplinary research on nationally significant aspects of the use and management of primary resources. Publ: Problem of glaciation in the western islands of Arctic Canada, Bull. Geog. Soc. Am; Resource planning at the federal level, Town Planning Inst. Can; Federal roads programs in Western Canada, Trans. B.C. Natural Resources Conf. Address: Research Division, Dept. of Energy, Mines & Resources, Ottawa 3, Ont, Can.

JENNINGS, DR. FRANCES N(OVOTNY), b. New York, N.Y, July 9, 12; m. 60. ECONOMICS, FINANCE. B.A, Hunter Col, 34; Alumnae Club scholar. & M.B.A, N.Y. Univ, 44, Ph.D, 52. Statist. asst, Laidlaw & Co, 35-41; RES. ASST, MUTUAL LIFE INS. CO. OF N.Y, 41- Lectr, City Col. New York, 61-66. Econ. Asn; Finance Asn; Statist. Asn. Corporation finance; business cycle research, especially the relationship of movements of life insurance, securities market research of trends in investment preference. Address: 26 Tioga Dr, Jericho, N.Y. 11753.

JENNINGS, PROF. FRANCIS PAUL, Am. Hist, Ethnohist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JENNINGS, PROF. G(EORGE) J(AMES), b. LeMars, Iowa, Jan. 7, 14; m. 36. ANTHROPOLOGY. B.D, Northwest. Sem, 46; B.Sc, Minnesota, 46, M.A, 48. Instr. geog, Minnesota, 46-51; geog. & anthrop, Bethel. Col. & Sem, 51-58; ASST. PROF. ANTHROP, Northwest. Col, 58-65; WHEATON COL.(ILL), 65- Fulbright res. grant, Iran, 50-51; Northwest. Col. ethnol. fel. culture change, 59. Anthrop. Asn; Geog. Soc; Am. Sci. Affiliation; Ethnol. Soc. Middle East ethnology and culture history; religion among preliterate peoples; culture contact and change; African cultures; culture and personality. Publ: Persian pathos and prospect; Inaccurate appellations of the Holy Land; Development project and culture change in an Iranian village. Address: Dept. of Anthropology, Wheaton College, 501 E. Seminary, Wheaton, Ill. 60187.

JENNINGS, DR. GEORGE W(OOD), b. Pensacola, Fla, May 22, 17; m. 49; c. 2. ECONOMICS. A.B, Emory, 38; M.A, Georgia, 48; Brown, 49; Duke, 50; Ph.D.(econ), Virginia, 61. Dir. res, State Chamber of Commerce, Va, 51-58; asst, Virginia, 59-61; assoc. prof. econ, Richmond, 61-67; DIR. BUR. BUS. & ECON. RES, RICHMOND PRFNL. INST, 67- Econ. Asn; Mkt. Asn; Govt. Res. Asn. State and local government; state and local taxation; regional economics. Publ: Virginia's government; State purchasing; Fiscal history of Virginia, 1860-1870. Address: Bureau of Business & Economic Research, Richmond Professional Institute, Richmond, Va. 23220.

JENNINGS, PROF. HELEN HALL, b. Buffalo, N.Y, July 31, 05; m. 44. PSYCHOLOGY, SOCIOLOGY. B.Litt, Rutgers, 27; M.A, Columbia, 31, Ph.D. (psychol), 42. Psychologist & sociomet. res. dir, State Training Sch. for Girls, N.Y, 29-39; field res. worker, Scripps Found, Miami (Ohio), 41-42; instr. psychol. & sociol, Briarcliff Jr. Col, 42-43; psychologist, ment. hyg. unit, U.S. Pub. Health Serv, D.C, 43-44; soc. sci. analyst, U.S. Bur. Census, 44-45; instr. psychodrama, California, 45-46; specialist group rels. & consult. sociomet. methods & sociodrama, Am. Coun. Ed, D.C, 46-48; assoc. prof. ED, BROOKLYN COL, 51-60, PROF, 61- Psychologist & res. assoc, Stanford, 45-46. Consult, 49- Managing ed, Sociometry, 42-50. Psychol. Asn; Sociol. Asn; Sociomet. Soc. Sociometric structure of groups; leadership analysis through sociometry and sociodrama; study of personality in inter-personal relations. Publ: Leadership and isolation; Sociometry in group relations; co-ed, Sociometry reader. Address: Dept. of Education, Brooklyn College, Bedford Ave. & Ave. H, Brooklyn, N.Y. 11210.

JENNINGS, PROF. HENRIETTA COOPER, b. Danville, Pa, Oct. 11, 99. ECONOMICS. A.B, Bryn Mawr Col, 22, M.A, 23, Ph.D, 27; London Sch. Econ, 25-26; summer, Sorbonne, 25. Instr. econ. & polit, Bryn Mawr Col, 27-28; prof. econ. & sociol, Wilson Col, 28-31; assoc. prof, WHEATON COL. (MASS), 31-33, prof, 33-53, head dept. econ. & sociol, 31-53, prof. ECON. & head dept, 53-65, EMER. PROF, 65- Econ. Asn. Personal finance; British economic thought. Publ: Political theory of state-supported elementary education in England, 1750-1833; Consumer in commercial banking. Address: 104 W. Market St, Danville, Pa. 17821.

JENNINGS, JAMES MURRAY, b. Tulsa, Okla, Oct. 28, 24; m. 46; c. 2. GEOGRAPHY, ECONOMICS. B.A, George Washington, 50; fel, Syracuse, 54-55; Soc. Sci. Res. Coun. fel, Cornell, 54-55; M.A, North Carolina, 55. Dep. dist. supply officer, UNRRA, 45-47; phys. sci. aide, Alaskan Br, U.S. Geol. Surv, 48-50; asst. prof, Northern Michigan, 52-53; geog, Pittsburgh, 56-58, assoc. prof, 58-59; prin. economist, area appraisal sect, Battelle Mem. Inst, 59-60, dir. area econ. res, 60-65, res. adv, 64-65; PRIN, JAMES M. JENNINGS ASSOCS, 65- Consult, 53-59. Mem. bd. dir, Ohio Planning Conf, 62-; Ohio v.pres, Great Lakes States Indust. Develop. Coun, 64-65; mem. bd. regents Indust. Develop. Inst, Am. Indust. Develop. Coun, 65-66. U.S.A.A.F, 43-45, S/Sgt. AAAS; Asn. Am. Geog; Am. Econ. Asn; Regional Sci. Asn; Am. Soc. Planning Off; Urban Land Inst. Regional economic development; urban and regional resource analysis and planning; market and feasibility studies; plant location analyses; research and development interpretations. Publ: Co-auth, Manufacturing in the St. Lawrence area of New York State, Syracuse Univ; Long range growth potential of West Central Ohio, Dayton Power & Light Co, 64; Population study of the Miami Valley region, Miami Valley Regional Planning Cmn, 66. Address: 1858 Chatfield Rd, Columbus, Ohio 43221.

JENNINGS, PROF. JESSE D(AVID), b. Oklahoma City, Okla, July 7, 09; m. 35; c. 2. ANTHROPOLOGY. B.A, Montezuma Col, 29; Ryerson fel, Chicago, 35, Ph.D.(anthrop), 43. Archaeol. supvr, Smithsonian Inst. & Univ. Chicago, 31-36; field dir, Tennessee, 36-37; supvr, Carnegie Inst, Guatemala, 37; park ranger, Nat. Park Serv, Montezuma Castle Nat. Monument, Ariz. & supt, Ocmulgee Nat. Monument, Ga, 38-39, archaeologist, Miss, 39-42, 45-47, Nebr, 47-48; PROF. ANTHROP, UTAH, 48- Dir, Glen Canyon Salvage Proj, 57-65. U.S.N.R, 42-45, Lt. American and Great Basin archaeology. Publ: Co-auth, Prehistoric man in the New World, Univ. Chicago, 64 & The native Americans, Harper, 65; auth, Prehistory of North America, McGraw, 68. Address: Dept. of Anthropology, University of Utah, Salt Lake City, Utah 84112.

JENNINGS, DR. JOSEPH WELDON, JR, b. Chicago, Ill, Feb. 24, 37; m. 59. PSYCHOLOGY. B.S, Roosevelt, 60; M.A, Mich. State, 62, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, MONTANA, 65- AAAS; Psychol. Asn; Animal Behavior Soc; Ecol. Soc. Comparative psychology, especially behavioral ecology, innate behavior, and behavior modification. Publ: Co-auth, Magnetic fields and orienting movements in mollusks, J. Comp. & Physiol. Psychol, 65: 365-368; An examination of Miller's approach-avoidance procedures in an open field, Psychol. Reports, 22: 909-915; Optical orientation in the fly larva, In: Laboratory studies in animal behavior, W.H. Freeman, 68. Address: Dept. of Psychology, University of Montana, Missoula, Mont. 59801.

JENNINGS, DR. M. KENT, b. Chowchilla, Calif, June 4, 34; m. 56; c. 3. POLITICAL SCIENCE. B.A, Redlands, 56; Ph.D.(polit. sci), North Carolina, 61. Res. asst, Brookings Inst, 60-62, res. assoc, 62-63; asst. prof. POLIT. SCI, MICHIGAN, 63-66, ASSOC. PROF, 66- Polit. Sci. Asn. American government and politics, especially community politics, electoral behavior, public opinion, political socialization, and bureaucracies. Publ: Community influentials, Macmillan, 64; co-auth, The image of the federal service, Brookings, 64; The electoral process, Prentice-Hall, 66. Address: Institute for Social Research, University of Michigan, Ann Arbor, Mich. 48106.

JENNINGS, DR. OTHO, b. Marthaville, La, Dec. 9, 11; m. 39; c. 3. SOCIOLOGY. A.B, & Th.B, God's Bible Sch, Cincinnati, Ohio, 39; M.A, Lehigh, 49; S.T.B, Temple, 50; Ed.D, Mich. State, 60; hon. LL.D, East. Pilgrim Col, 58. Dean, South. Pilgrim Col, 50-51; Owosso Col, 51-55, pres, 55-59; prof. sociol, Asbury Col, 59-64; CHMN. DIV. SOC. SCI, OLIVET NAZARENE COL, 64- Sociol. Asn. Religion. Publ: Co-auth, Unveiling the missionary world, Revivalist Press, 39; Further insights into holiness, Beacon Hill, 64. Address: 580 Jonette Ave, Bradley, Ill. 60915.

JENNINGS, DR. PAUL CLYNN, b. Murray, Utah, Feb. 7, 34. PSYCHOLOGY. B.A, Utah, 60, M.A, 64, Ph.D.(psychol), 66. ASST. PROF. PSYCHOL, WATERLOO, 65- Nat. Res. Coun. Can. grant, 67-68. Psychol. Asn. Human learning; quantitative methods; concept identification. Address: Dept. of Psychology, University of Waterloo, Waterloo, Ont, Can.

JENNINGS, PROF. ROBERT LEE, Ed. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 62.

JENNINGS, DR. ROGER D(ENNIS), b. Los Angeles, Calif, July 29, 33; m. 57; c. 2. PSYCHOLOGY. B.A, California, Berkeley, 59; M.A, San Jose State Col, 60; Nat. Inst. Ment. Health fel, Colorado, 62-63, Ph.D.(psychol), 63. Nat. Inst. Ment. Health trainee, med. center, California, San Francisco, 63-65; clin. psychol. intern, Vet. Admin. Hosp, Palo Alto, Calif, 65-66; RES. ASSOC. SOC. PSYCHOL, Oceanic Inst, Hawaii, 66-67; INST. PSYCHOL. STUDY LIVING SYSTS, PORTLAND STATE COL, 67- Asst. prof, San Francisco State Col, 64-65. U.S.N, 51-54. AAAS; Psychol. Asn. Behavior in hyperbaric, oceanic or socially disadvantaged environments. Publ: The effect of distribution of practice on the maze learning of descendants of the Tryon maze bright and maze dull strains, Psychol. Reports, 62; A behavioral approach to nitrogen narcosis, Psychol. Bull, 63; Three levels of staff intervention and their effect on inpatient small group morale, leadership and performance, J. Abnorm. Psychol, (in press). Address: Institute for the Psychological Study of Living Systems, Portland State College, Box 751, Portland, Ore. 97207.

JENNINGS, PROF. WALTER W(ILSON), Econ, see 10th ed, Soc. & Behav. Vols.

JENNY, PROF. HANS H(EINRICH), b. Ennenda, Switz, Apr. 11, 22; nat. ECONOMICS, POLITICS. Ecole Superieure de Commerce, Switz, 41-42; Lausanne, Switz, 42-43; George Washington, 47; Yale, 48-49; Ph.D, Bern, 50. Instr. ECON, COL. WOOSTER, 49-51, asst. prof, 51-54, assoc. prof, 54-59, PROF, 59-, DIR. INSTNL. RES, 62-, V.PRES. BUDGETARY AFFAIRS, 66- Ford Found. res. grant, 58. Pub. rels. res. serv. consult, Gen. Elec. Co, 54-55; consult, sch. bus, Columbia, 59; Kenyon Col, 66-67; MacMurray Col, 66-67; Ford Found, 66-67. Swiss Army, 42-44, Lt. Econ. Asn; Economet. Soc; Opers. Res. Soc; Inst. Mgt. Sci; Econ. & Social Sci. Soc, Switz. Role of the modern large corporation in a fluctuating economy, especially income stabilization in a developing democracy; government relations to business; basic economic concepts, principles and problems of methodology; college development planning. Publ: Operations research: its nature and scope, In: Linear programming and the theory of the firm; Simulation and optimization in investment portfolio selection, Proc. Fourth Int. Conf. Oper. Res, 8/66; Pricing and optimum size in a non-profit institution: the university, Proc. Annual Convention, Am. Econ. Asn, 12/67. Address: Office of Budgetary Affairs, College of Wooster, Wooster, Ohio 44691.

JENSEN, PROF. ARTHUR R(OBERT), b. San Diego, Calif, Aug. 24, 23; m. 60; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, California, 45; M.A, San Diego State Col, 52; Ph.D.(psychol), Columbia, 56. Asst. med. psychol, psychiat. inst, Maryland, 55-56; U.S. Pub. Health Serv. res. fel. psychol, inst. psychiat, London, 56-58; asst. prof. ED. PSYCHOL, CALIFORNIA, BERKELEY, 58-61, assoc. prof, 62-66, PROF, 66-, RES. PSYCHOLOGIST, INST. HUMAN LEARNING, 66-, assoc. res. psychologist, center human learning, 61-66. Res. assoc, Inst. Personality Assessment & Res, 60-61; Guggenheim fel, inst. psychiat, Univ. London, 64-65; fel, center adv. study behav. sci, Stanford, 66-67. AAAS; Psychol. Asn; Ed. Res. Asn; Psychonomic Soc. Individual differences in learning, genetic basis of mental abilities. Address: Dept. of Education, University of California, Berkeley, Calif. 94720.

JENSEN, DR. BARRY T(HORVALD), b. Glenwood, Utah, Mar. 29, 19; m. 38; c. 3. PSYCHOLOGY. B.S, Brigham Young, 44; M.A, Ohio State, 47, Ph.D. (psychol), 50. Asst. prof. psychol, Miami (Ohio), 48-50; ed. psychol, Kentucky, 50-51; asst. prof. ed, sch. ed, Stanford, 53-56; human factors scientist, Syst. Develop. Corp, 56-64; dir. mgr. develop, atomics int. div, N. Am. Aviation, Inc, 64-66, sr. tech. specialist, autonetics div, 66-67; head personnel develop. & orgn. effectiveness, aerospace group, Hughes Aircraft Co, 67-68; DIR. BEHAV. SCI. DIV, GEN. SYSTS, INC, 68- Lectr, Calif. Inst. Tech, 64; San Fernando Valley State Col, 64-65. Consult, State Pub. Sch. Dists, Calif, 55-56. Res. psychologist, personnel res. br, Adj. Gen. Off, U.S.A, 51-53. Psychol. Asn. Human development in systems. Publ: Co-auth, Development of cooperation among three-man crews, J. Soc. Psychol, 63 and Troublesome transition from scientist to manager, Personnel, 65. Address: 7829 Melba Ave, Canoga Park, Calif. 91304.

JENSEN, DR. BARTELL C, b. Richfield, Utah, July 16, 34; m. 54; c. 3. ECONOMICS. B.S, Utah State, 59; Ford Found. fel, summer 64; Ph.D.(econ), Purdue, 65. Asst. prof. ECON. & STATIST, UTAH STATE, 63-67, ASSOC. PROF, 67-, assoc. dir. econ. res. inst, 64-68. U.S. Forest Serv. res. grant, 64-66; Nat. Sci. Found. res. grant, summer 65; Off. Water Resources res. grant, 66-68. Econ. Asn; Economet. Soc. Alterations in input-output coefficients; dynamics of duopoly; mathematical programming techniques applied to problems of allocation of natural resources. Publ: The impact of reparations on the post-war Finnish economy, Irwin, 66. Address: Dept. of Economics, Utah State University, Logan, Utah 48321.

JENSEN, PROF. DONALD DALE, b. Holdrege, Nebr, Apr. 29, 30; m. 50; c. 3. PSYCHOLOGY. A.B, Nebraska, 51, Johnson fel, 54-55, M.A, 55; M.S, Yale, 57, Nat. Sci. Found. fel, 57-58, Ph.D, 58. Asst. psychol, Yale, 55-57; Nat. Sci. Found. fel. zool, Groningen, Netherlands, 58-60; ASSOC. PROF. PSYCHOL, INDIANA, 60- Nat. Inst. Ment. Health spec. res. training fel, Oslo, 66-67. U.S.A, 51-54, 1st Lt. Psychol. Asn. Ethology; comparative psychology; evolutionary origins of the vertebrate behavioral apparatus; physiological processes. Publ: Hoplonemertines, Myxinoids and deuterostome origins, Nature; Theory of the behavior of Paramecium aurela and behavioral effects of feeding, fission and ultraviolet microbeam irradiation and Operationism and the question is this behavior learned or innate, Behaviour. Address: Dept. of Psychology, Indiana University, Bloomington, Ind. 47401.

JENSEN, PROF. DOROTHY CROSS, b. Philadelphia, Pa, Oct. 21, 06; m. 37. ANTHROPOLOGY. B.S, Pennsylvania, 28, Ph.D.(oriental studies), 36. Archaeologist, N.J. State Mus, 29; asst, univ. mus, Pennsylvania, 30-34, asst. curator, 34-38; instr. ANTHROP, HUNTER COL, 38-47, asst. prof, 47-54, assoc. prof, 54-61, PROF, 61- Supvr. Indian site surv, Works Progress Admin, N.J. State Mus, 36-38, archaeol. adv, mus, 38- Fel. AAAS; fel. Anthrop. Asn; Oriental Soc; fel. N.Y. Acad. Sci. Archaeology of New Jersey and of Mesopotamia; movable property in the Nuzi documents. Publ: Archaeology of New Jersey, Vol. I, 41, Vol. II, 56; New Jersey's Indians, 65. Address: Dept. of Anthropology, Hunter College, 695 Park Ave, New York, N.Y. 10021.

JENSEN, PROF. FINN B(JORN), b. Kragero, Norway, Dec. 2, 09. ECONOMICS. A.B, Southern California, 34, A.M, 35, Ph.D, 40; Virginia, 35-36. From instr. to asst. prof, Kansas, 36-42, 46-47; officer auxiliary for. serv, U.S. Dept. State, 43-46; assoc. prof. ECON, LEHIGH, 47-54, PROF, 54-Econ. Asn. International economics. Publ: The common market, Lippincott, 65. Address: Dept. of Economics, Lehigh University, Bethlehem, Pa. 18077.

JENSEN, PROF. GLEN DONALD, b. Arlington, S.Dak, June 25, 32; m. 58; c. 2. PSYCHOLOGY. B.S, South Dakota, 55; M.A, Northwestern, 57, dept. psychol. grant, 58-59, Nat. Inst. Ment. Health grant, 58-60, Ph.D.(psychol), 59. Res. assoc. PSYCHOL, Northwestern, 58-60; asst. prof, New Mexico, 60-62; assoc. prof, DePaul, 62-67; PROF, STATE UNIV. N.Y. COL. FREDONIA, 67- Res. grants, cmt. res, Univ. New Mexico, 61, Nat. Inst. Ment. Health, 61-62, Nat. Inst. Child Health & Human Develop, 62, 63-64 & 65-67. U.S.A, 50-52, Sgt. Psychonomic Soc; Psychol. Asn. Comparative studies of instrumental conditioning. Publ: Student guide to accompany general psychology, Allyn & Bacon, 67; Preference for bar pressing over freeloading as a function of number of rewarded presses, 65: 451-454 & co-auth, Runway performance under horn-of-plenty conditions versus gradual diminution of reward supply, 76: 7-11, J. Exp. Psychol. Address: 4 Birchwood Dr, Fredonia, N.Y. 14063.

JENSEN, DR. GORDON D, Pediat, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JENSEN, PROF. HANS E, b. Viby, Denmark, Dec. 5, 19; nat; m. 49; c. 3. ECONOMICS. B.Comm, Copenhagen Sch. Econ. & Bus. Admin, Denmark, 49; M.A, Minnesota, 51; Ford Found. fel, Texas, 59-60, Ph.D, 61. Asst. prof. econ, Alaska, 56-58, assoc. prof, 58-61, prof. ECON. & dean col. bus, econ. & govt, 61-63; assoc. prof, TENNESSEE, 63-67, PROF, 67- Econ. Asn; Econ. Hist. Asn; Royal Econ. Soc; Brit. Econ. Hist. Soc. History of economic theory; economic history and development. Address: Dept. of Economics, University of Tennessee, Knoxville, Tenn. 37916.

JENSEN, PROF. HARALD RUDOLF, b. Dannebrog, Nebr, July 12, 11; m. 41; c. 3. AGRICULTURAL ECONOMICS. B.A, Buena Vista Col, 38; M.S, Iowa State, 42, Ph.D.(agr. econ), 50. Teacher, pub. schs, Minn, 38-40, teacher & prin, 40-41; exten. assoc. AGR. ECON, Iowa State, 42-43, from asst. to asst. prof, 48-53; assoc. prof, Kentucky, 53-57; Purdue, 57-58; PROF, MINNESOTA, ST. PAUL, 58- Med.C, U.S.A, 43-47. Agr. Econ. Asn; Econ. Asn. Managerial behavior and production adjustment in agriculture. Publ: Co-auth, Farm management economics, Prentice-Hall, 54, Integration as an adjustment to risk and uncertainty, South. Econ. J, 62 and Effects of policy programs and capital availability on Red River Valley Farms, Minnesota, Exp. Sta. Bull, 65. Address: Dept. of Agricultural Economics, University of Minnesota, St. Paul, Minn. 55101.

JENSEN, PROF, HOWARD EIKENBERRY, b. Herington, Kans, Sept. 6, 89; m. 14. SOCIOLOGY. A.B, Kansas, 14, A.M, 15; fel, Chicago, 16-18, B.D, 17, Ph.D, 20. Dir. Latin-Am. surv, Inter-church World Movement, 19-20; prof. sociol, Butler, 20-28; Missouri, Columbia, 28-31, chmn. dept. 30-31, dir. soc. serv. training curriculum, 28-31; prof. sociol, DUKE, 31-59, consult, dept. neuropsychiat, sch. med, 42-51, chmn. dept. sociol. & anthrop, univ, 45-49, EMER. PROF. SOCIOL, 59-; EMER. PROF. SOCIOL, MISSOURI, COLUMBIA, 64- Lectr. col. missions, norm. col, N.Am. Gymnastic Union & Training Sch. Nurses, Indianapolis City Hosp, 21-28; Jarrell lectr, Emory, 49; distinguished vis. prof, Texas Christian, 53. Consult, ment. hyg. div, State Bd. Health, Ga, 51. Ed. sociol. series, Duke Univ. Press, 39-58. Chmn. exec. cmt, State Cmn. Blind, N.C, 35-; hon. pres, Durham Community Planning Coun, 61- AAAS; Sociol. Asn; Int. Sociol. Asn. Social theory; social and personal disorganization. Publ: Methods in sociology; co-auth, Systems of public welfare, Univ. North Carolina, 24 & Modern sociological theory in continuity and change, Dryden, 57. Address: Lenoir Homes, Cottage 6, Columbia, Mo. 65201.

JENSEN, PROF. JAMES E(DWARD), b. Racine, Wis, June 1, 20; m. 50. ECONOMICS. B.A, Wisconsin, 48, M.A, 49, Ph.D.(econ), 53. Asst. econ, Wisconsin, 49-52; asst. prof, Pac. Lutheran Col, 52-53; Drake, 53-56; gen. economist, Fed. Reserve Bank of Dallas, 56-58; assoc. prof. ECON, WIS. STATE, STEVENS POINT, 58-62, PROF, 62- Econ. Asn. Public finance; money and banking; petroleum economics. Publ: Rationale of the medical expense deduction, Nat. Tax J; Medical expenditures and medical deduction plans, J. Polit. Econ; Crude oil: capacity, supply schedule and imports policy, Land Econ, 11/67. Address: 601 Frontenac Ave, Stevens Point, Wis. 54481.

JENSEN, PROF. JAMES R, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

JENSEN, DR. JOAN M(ARIA), U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JENSEN, PROF. J(OHN) GRANVILLE, b. Portland, Ore, Dec. 18, 11; m. 34; c. 2. GEOGRAPHY. B.A, West. Wash. Col. Ed, 41; M.A, Clark, 42, Ph.D. (geog), 46. Asst. prof. geog, R.I. Col. Ed, 43-46; from asst. prof. to PROF, NATURAL RESOURCES & GEOG, OREGON STATE, 46-, chmn. dept. natural resources, 50-65. U.S. mem. cmt. on basic resources, Pan Am. Inst. Geog, 65; mem. U.S. nat. cmt, Int. Geog. Union, 67. AAAS; Asn. Am. Geog. Climatology; resources; Latin America; problems of the ejido in Mexico. Publ: Co-auth, Geography of commodity production; Conservation of the United States. Address: Dept. of Geography, Oregon State University, Corvallis, Ore. 97331.

JENSEN, PROF. KAI, Psychol, see 10th ed, Soc. & Behav. Vols.

JENSEN, DR. LLOYD, b. Blackfoot, Idaho, Aug. 18, 36; m. 63. POLITICAL SCIENCE. B.A, Michigan, 58, M.A, 59, Ph.D.(polit. sci), 63. Instr. POLIT. SCI, Illinois, 62-63, asst. prof, 63-65; Northwestern, 65-66; ASSOC. PROF, KENTUCKY, 66- Res. assoc. & consult, int. rels. prog, Northwestern, 64-65; vis. fel, Inst. Policy Studies, 65; Nat. Sci. Found. res. grant, summer, 64. Polit. Sci. Asn; Int. Studies. Asn. Disarmament and national security policy; comparative foreign policies; international organization and relations. Publ: Soviet-American bargaining behavior in the postwar disarmament negotiations, 9/63 & Military capabilities and bargaining behavior, 6/65, J. Conflict Resolution; Foreign policy elites and the prediction of international events, Peace Res. Soc. Papers, 66. Address: 1236 Indian Mound Rd, Lexington, Ky. 40502.

JENSEN, DR. MICHAEL C, b. Rochester, Minn, Nov. 30, 39; m. 62; c. 2. ECONOMICS, FINANCE. A.B, Macalester Col, 62; M.B.A, Chicago, 64, Ph.D.(econ, finance, acct), 68. Instr. finance, Northwestern, 66-67; ASST. PROF. FINANCE & ECON, ROCHESTER, 67- Consult, Sci. Res. Assocs, 67; Arthur D. Little, Inc, 67- Econ. Asn; Finance Asn; Economet Soc. Concept and behavior of efficient markets optimal portfolio policies and the nature and measurement of risk. Publ: The performance of mutual funds in the period 1945-64, J. Finance, 5/68; co-auth, The adjustment of stock prices to new information, Int. Econ. Rev, (in press). Address: College of Business Administration, University of Rochester, Rochester, N.Y. 14627.

JENSEN, DR. MILTON B, b. Mendon, Utah, July 19, 98; m. PSYCHOLOGY. B.S, Utah State Col, 24; A.M, Stanford, 25, Ph.D.(ed), 27; California, 18; Chicago, 32; Louisville, 33-34. Head dept. ed. & dir. training sch, N.Mex. Nor. Univ, 27-28; with pub. schs, Calif, 28-29; prof. psychol, Mich. Cent. Col, 29-31; West. Ky. State Col, 31-32; lectr, Louisville, 32-35; consult. psychologist, Ky, 35-42, 45-49; mem. res. staff, U.S. Air Force Sch. Aviation Med, 49-50; chief psychologist, Vet. Admin. Hosp, Salisbury, N.C, 54-60; Vet. Admin. Center, Hot Springs, S.Dak, 60-63, Prescott, Ariz, 63-66; CHIEF PSYCHOL. CONSULT, KY. DEPT. MENT. HEALTH, 67- Dir. spec. ed, high sch, Calif, 25-27; lectr, Indiana, 46-47; Trinity (Tex), 50; vis. prof, Tulane, 50-51; acting prof, Tennessee, 57-60. U.S.N, 18; U.S.A, 42-45; U.S.A.F, 51-54. Fel. AAAS; fel. Psychol. Asn; Psychopathology; psychotherapy; rehabilitation; intellectual functioning in old age. Publ: Analysis of clinical judgments on male basic airmen who failed the group psychological tests, J. Clin. Psychol; Muscular tensions and prosthetic dentistry, J. Prosthetic Dent; Some psychological aspects of migraine, Psychol. Record. Address: 2408 Vinedale Ave, Louisville, Ky. 40220.

JENSEN, DR. PAUL J(UNIOR), b. Ft. Dodge, Iowa, Dec. 14, 26; m. 47; c. 1. COMMUNICATION SCIENCES, PSYCHOLINGUISTICS. B.A, Iowa, 52, M.A, 54, fel, 61-62, Ph.D.(speech path. & lang. develop), 62. Speech & hearing therapist, pub. schs, Ill, 54-56; asst. prof. speech path, Humboldt State Col, 56-57; dir. speech & hearing clin, Byron Harless & Assoc, Inc, Consult. Psychologists, Fla, 57-60; instr. speech path, Iowa, 60-61; asst. prof. lang, acquisition, Wichita, 62-63; res. asst. prof. speech, FLORIDA, 63-67, RES. ASSOC. PROF. SPEECH & ASST. DIR. COMMUN. SCI. LAB, 67- Res. fel, Wichita, 62-63; Chicago, 64-67; coordinator, commun. sci. seminar psycholing, Florida, 65, mem. exec. cmt, dept. speech, 67-; prin. investr, Off. Ed, 65-66; mem. commun. sci. study sect, Nat. Insts. Health, 67-71. Speech & Hearing Asn; Int. Soc. Phonetic Sci. First-language acquisition; hesitation phenomena; dyadic communication. Publ: Co-auth, A third study of a sound discrimination test for use with cerebral palsied children, Cerebral Palsy Rev, 1-2/65; auth, Quantification of interpersonal communications, Phonetica, 65; Stuttering and latrogenesis, Eye, Ear, Nose & Throat Monthly, 7/66. Address: Communication Sciences Lab, Bldg. L, University of Florida, Gainesville, Fla. 32603.

JENSEN, DR. RICHARD, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JENSEN, DR. ROBERT EUGENE, b. Estherville, Iowa, Apr. 30, 38; m. 63; c. 1. ACCOUNTING, MANAGEMENT SCIENCE. B.S, Denver, 60, M.B.A, 61; Ph.D.(bus), Stanford, 66. Acct, Ernst & Ernst, Cert. Pub. Acct, 60-61; instr. acct, Denver, 60-61; econ, Stanford, 64; ASST. PROF. ACCT. & FINANCE, MICH. STATE, 65- Acct. Asn; Statist. Asn; Inst. Mgt. Sci; Opers. Res. Soc. Finance; statistics. Publ: An experimental design for study of effects of accounting variations in decision making, J. Acct. Res. autumn 66; A multiple regression model for cost control-assumptions and limitations, 4/67 & Sensitivity analysis and integer linear programming, (in press), Acct. Rev. Address: Dept. of Accounting & Finance, Michigan State University, 302 Eppley Center, East Lansing, Mich. 48823.

JENSEN, DR. ROBERT G, b. Seattle, Wash, June 16, 35; m. 57; c. 3. GEOGRAPHY. B.S, Oregon State, 57; M.A, Washington (Seattle), 62, Ph.D.(geog), 64. ASST. PROF. GEOG, SYRACUSE, 64- Am. Coun. Learned Socs-Soc. Sci. Res. Coun. for. area fel, 65-66. U.S.M.C, 57-60, Res, 60-, Capt. Asn. Am. Geog; Asn. Adv. Slavic Studies. Economic geography of the Soviet Union. Publ: Soviet subtropical agriculture: a microcosm, Geog. Rev, 4/64; Soviet concept of agricultural regionalization and its development, In: Soviet and East European agriculture, Univ. California, 67. Address: Dept. of Geography, 303 H.B. Crouse, Syracuse University, Syracuse, N.Y. 13210.

JENSEN, THOMAS A(RDEN), b. Wheatfield, Ind, July 1, 14. GEOGRAPHY. A.B, Michigan, 37; M.A, California, Los Angeles, 54. Admin. asst, traffic dept, Gen. Tel. Co. Calif, 49-50; asst. geog, California, Los Angeles, 50-54, meteorol. librn, 56-61, prin. library asst, 61-62; lectr. geog, Los Angeles State Col, 55-56; asst. prof, San Fernando Valley State Col, 62-66; INDEPENDENT RES, 66- Consult, Stanford Res. Corp, 59. U.S.A, 42-47, Res, 47-, Col. AAAS; Geog. Soc; Asn. Am. Geog. Urban geography; European regional geography; industrial aspects of economic geography. Publ: Palm Springs, California: its evolution and functions. Address: 1936 Manning Ave, Los Angeles, Calif. 90025.

JENSEN, PROF. VERNON H, b. Salt Lake City, Utah, July 10, 07. INDUSTRIAL RELATIONS. B.S, Brigham Young, 33; Ph.D, California, 39. Prof, Colorado, 37-45; PROF. INDUST. & LABOR RELS, N.Y. STATE SCH. INDUST. & LABOR RELS, CORNELL, 46-, ASSOC. DEAN, 65- Arbitrator, pub. panel mem, wage stabilization dir. & pub. bd. mem, War Labor Bd, 42-45. Grants-in-aid, Soc. Sci. Res. Coun; Montague Burton prof, Univ. Leeds, Gt. Brit, 59-60; Guggenheim fel, 59-60; Wertheim fel, 60; pres, R.R. Marine Cmn, 62. Consult, Nat. Defense Mediation Bd, 41. Int. Indust. Rels. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Historical and contemporary labor relations. Publ: Lumber and labor; Heritage of conflict; Hiring of dock workers, Harvard, 64. Address: New York State School of Industrial & Labor Relations, Cornell University, Ithaca, N.Y. 14850.

JENSON, DR. PAUL G(ERHARD), b. Milan, Minn, June 27, 25; m. 47; c. 5. PSYCHOLOGY. B.A, Luther Col, 48; M.A, Minnesota, 51, fel, 51-52, Ph.D, 55. From assoc. prof. to prof. psychol. & chmn. dept, Macalester Col, 52-64; V.PRES. ACAD. AFFAIRS, TEMPLE BUELL COL, 64- Consult. & exam, N.Cent. Asn. Cols. & Univs, 59- U.S.A.A.F, 43-46. Psychol. Asn. Applied psychology. Address: Temple Buell College, 1800 Pontiac St, Denver, Colo. 80220.

JENSON, DR. RALPH E(ZRA), Psychol, see 10th ed, Soc. & Behav. Vols.

JENSS, DR. RACHEL M(ARIE), Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JENSSEN, DR. WARD J(ACK), b. Chicago, Ill, Jan. 9, 22; m. 52. PSYCHOLOGY. B.S, Northwestern, 44, M.A, 48; Ph.D.(psychol), Southern California, 52. Instr, Northwestern, 46-48; consult, Psychol. Res. Center, 49-51; dir, Appl. Psychol. Assocs, 51-54; Jenssen, Beam & Martin, 54-56; res. mgr, George Fry & Assocs, 56-58; PRES, WARD J. JENSSEN, INC, 58-; PRES, TELE-RES, INC, 64- Instr, Southern California, 50-54. U.S.N, 44-46, Lt. (jg). Psychol. Asn. Industrial psychology; engineering. Address: 5455 Wilshire Blvd, Los Angeles, Calif. 90036.

JENTZ, PROF. GAYLORD A, b. Beloit, Wis, Aug. 7, 31; m. 55; c. 4. BUSINESS LAW, LAW. B.A, Wisconsin, 53, J.D, 57, M.B.A, 58. Teaching asst. mgt. & law, Wisconsin, 57-58; instr. mgt, Oklahoma, 58-59, from asst. prof. to assoc. prof. BUS. LAW, 59-65; from assoc. prof. to PROF, TEXAS, AUSTIN, 65- From vis. instr. to vis. prof, Wisconsin, summers, 58-65. Private practice, 57-58. U.S.A, 53-55. Bus. Law Asn.(2nd v.pres, 67-68, ed, Am. Bus. Law J, 67-68); Arbit. Asn. Consumer credit laws; government regulation of advertising in the United States and its effect business and the consuming public. Publ: Co-auth, Business law text and cases, Allyn & Bacon, rev. ed, 68; auth, The law and interest, Am. Bus. Law J, winter 66; Texas uniform commercial code, practical aspect on secured transactions, Bur. Bus. Res, Univ. Tex, 66 & rev. ed, 67. Address: Dept. of Business Law, University of Texas, 624 BEB, Austin, Tex. 78712.

JEREMIAH, DR. DAVID B(OWEN), Finance, see 10th ed, Soc. & Behav. Vols, deceased 65.

JERGER, DR. JAMES F(RANCIS), b. Milwaukee, Wis, Apr. 20, 28; m. 49; c. 3. AUDIOLOGY. Ph.D.(audiol), Northwestern, 54. Res. audiologist, Northwestern, 54-55, assoc. prof. AUDIOL. & dir. audiol. res, 57-61; res. prof, Gallaudet Col, 61-62; RES. ASSOC. PROF, COL. MED, BAYLOR & DIR. RES, HOUSTON SPEECH & HEARING CENTER, 62- Consult, Vet. Admin, 61-62. Nat. Insts. Health res. career develop. award, 63-68. AAAS; fel. Speech & Hearing Asn; Acoustical Soc; Psychonomic Soc; assoc. fel. Acad. Ophthal. & Otolaryngol; Int. Soc. Audiol. Hearing; hearing tests; psychoacoustics. Publ: Ed, Modern developments in audiology, Academic, 63. Address: Dept. of Audiology, College of Medicine, Baylor University, Houston, Tex. 77025.

JERISON, DR. HARRY J(ACOB), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

JERNIGAN, DR. A(USTIN) J(ACK), b. Van Alstyne, Tex, Oct. 24, 21; m. 47; c. 3. CLINICAL PSYCHOLOGY. B.S, N.Tex. State Col, 42; Ph.D.(psychol), Kentucky, 52. Supv. clin. psychologist, VET. ADMIN. HOSP, Waco, Tex, 51-56, CHIEF CLIN. PSYCHOLOGIST, DALLAS, 56- Asst. clin. prof, southwest. med. sch, Texas, 65- U.S.A.A.F, 42-46. Psychol. Asn. Publ: Rotation style on Bender Gestalt test, 4/67 & Large scale assessment of state mental patients, 10/67, J. Clin. Psychol. Address: 4012 Fountainhead, Dallas, Tex. 75233.

JERNSTEDT, DR. GEORGE CHRISTIAN, b. Orange, N.J, June 25, 41; m. 64; c. 1. PSYCHOLOGY. B.S, Carnegie Inst. Tech, 63; Danforth fel, Hopkins, 63-67, A.M, 66, Ph.D.(psychol), 67. Asst. human factors engr, aerospace div, Westinghouse Elec. Corp, 64; ASST. PROF. PSYCHOL, DARTMOUTH COL, 67- Lectr, Goucher Col, 66-67. AAAS; Psychol. Asn. Learning, especially reinforcement; computer applications and techniques; experimental methodology; electrocutaneous communication. Publ: Effect of absolute amount, mean amount, and pattern of reinforcement on acquisition and extinction, J. Exp. Psychol, 68. Address: Dept. of Psychology, Dartmouth College, Hanover, N.H. 03755.

JEROME, DR. EDWARD A, b. New York, N.Y, Mar. 28, 12; m. 38; c. 1. PSYCHOLOGY. B.A, Columbia, 37, fel, 41-43, Ph.D.(psychol), 43. Lab. asst. psychol, Columbia, 39-41; res. psychologist, Nat. Defense Res. Cmt. Proj, Camp Murphy, Fla, 43-44, res. assoc, Camp Crowder, Mo, 44-45; res. assoc. opers. res. staff & asst. chief air staff, Off. of Chief Signal Officer, D.C, 45-46; chief psychologist, Haskin's Labs, 46-48; res. assoc, Naval Med. Res. Inst, 48-56; RES. PSYCHOLOGIST, LAB. PSYCHOL, NAT. INST. MENT. HEALTH, 56- Psychol. Asn. Training military personnel, human engineering; research on cognitive processes of the aging; logical computers. Publ: Co-auth, Age and learning: experimental studies, In: Handbook of aging and the individual; Light aversion motivation in psychologic studies of aging in rats, J. Geront; Aging and psychological adjustment: problem solving and motivation, Rev. Ed. Res. Address: Lab. of Psychology, National Institute of Mental Health, Bethesda, Md. 20014.

JEROME, BRO. U, Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

JERSILD, PROF. ARTHUR T(HOMAS), b. Elk Horn, Iowa, Nov. 12, 02; m. 30; c. 4. PSYCHOLOGY. A.B, Nebraska, 24, LL.D, 62; Ph.D.(psychol), Columbia, 27. Asst. instr. logic, Nebraska, 24-25; psychol, Barnard Col, Columbia, 25-26; instr, 27-29; asst. prof, Wisconsin, 29-30; ED, TEACHERS COL, COLUMBIA, 30-34, assoc. prof, 34-38, prof, 38-67, EMER. PROF, 67- Horace Mann-Lincoln Inst, teachers col, Columbia, 30-36, 44-; lectr, William Alanson White Inst. Psychiat, 58. Consult. psychologist, Columbia Broadcasting Syst, 35-48. Ed, Child Develop. Monogr. Vis. expert, Dept. Army, Japan, 48-49. Fel. Psychol. Asn; Soc. Res. Child Develop. Development of self; implication of self-understanding for education. Publ: Child psychology; Psychology of adolescence; When teachers face themselves. Address: Montrose, N.Y. 10548.

JERVIS, PROF. FREDERICK M(ARTIN), b. Cambridge, Mass, Dec. 3, 22; m. 46; c. 3. PSYCHOLOGY. B.A, New Hampshire, 48, M.A, 49; Am. Found. Blind fel, Columbia, 51-53, Ph.D.(clin. psychol), 58. Clin. psychologist, NEW HAMPSHIRE, 52-58, lectr. PSYCHOL, 54-63, assoc. prof, 63-67, PROF, 67-, dir. counseling center, 58-64. Vis. scholar, grad. sch. bus. admin, Harvard, 60-61; summers, lectr. & consult, Peabody Col, 57-60, Denver, 58, Northwestern, 59, Syracuse, 59-60, San Francisco State Col, 59-61. Consult, Brookshire Knitting Mills, 55-; Simplex Wire & Cable Co, 58-60. U.S.A, 43-47, 1st Lt. Psychol. Asn. Evaluation and development of business executives; integration of psychological and sociological theory for organizational behavior; maximizing human potential, productivity and creativity. Publ: Different approach to interest profiles, J. Counseling Psychol; Student and faculty perceptions of educational values, Am. Psychologist; Meaning of a positive self concept, J. Clin. Psychol. Address: Dept. of Psychology, University of New Hampshire, Durham, N.H. 03824.

JERVIS, DR. ROBERT, b. New York, N.Y, Apr. 30, 40; m. 67. GOVERNMENT. B.A, Oberlin Col, 62; M.A, California, Berkeley, 63, Ph.D.(polit. sci), 68. RES. ASSOC, CENTER INT. AFFAIRS, HARVARD, 66-, ASST. PROF. GOVT, UNIV, 68- International relations, especially military strategy, arms control and decision-making. Publ: Costs of the scientific study of international relations, Int. Studies Quart, 12/67; Hypotheses on misperception, World Polit, 4/68; Costs of the quantitative study of international relations, In: Contending approaches to the study of international relations, Princeton, 68. Address: Center for International Affairs, Harvard University, 6 Divinity Ave, Cambridge, Mass. 02138.

JESNESS, DR. OSCAR BERNARD, b. Morris, Minn, Feb. 4, 89; m. 16, 30; c. 1. AGRICULTURAL ECONOMICS. B.S.A, Minnesota, 12, M.S, 24, Ph.D. (agr. econ), 28. Instr, high sch, Minn, 12-13; mkt, Minnesota, 14-15; asst. coop. orgn, U.S. Dept. Agr, 15-20; head dept. mkts. & rural finance, Kentucky, 20-28; prof. & head dept. AGR. ECON, MINNESOTA, 28-57, EMER. PROF, 57- Chmn, State Planning Bd, Minn, 36-37; dep. chmn, chmn. bd. & dir, Minneapolis Fed. Reserve Bank, 55-60. Mem, Int. Conf. Agr. Economists. Dir, E.G. Minneapolis Grain Exchange; hon. dir, Green Giant Co; dir. & pres, Green Giant Found; dir. & chmn. bd, Experience, Inc. Econ. Asn; Agr. Econ. Asn.(ed, J. Farm Econ, pres, 37). Agricultural policy; marketing; land utilization; farm finance. Publ: The cooperative marketing of farm products; co-auth, The American farmer and the export market & Program for land use in northern Minnesota. Address: Institute of Agriculture, University of Minnesota, St. Paul, Minn. 55101.

JESSEN, PROF. RAYMOND J(AMES), b. San Francisco, Calif, Nov. 4, 10; m. 40; c. 3. STATISTICS. B.S, California, 37; Ph.D.(econ, statist), Iowa State Col, 43. Instr. & res. assoc, Iowa State Col, 38-46, assoc. prof. statist, 47-48, prof, 49-57, acting head dept. statist. & acting dir. statist. lab, 47-50; proj. dir, C-E-I-R, Inc, 57-62; PROF. BUS. STATIST, CALIFORNIA, LOS ANGELES, 62-, lectr, 57-62. Statistician, U.S. Dept. Agr, 38-57; dir. tech. staff in Greece, U.S. Dept. State, 46; tech. dir, Grecian studies, Rockefeller Found, 48. Consult, U.S. Bur. Census, 45-57; U.S. Soil Conserv. Serv, 50-57; UN Food & Agr. Orgn, Ecuador, 52, Argentina, 55, Peru, 58; U.S. Fish & Wild Life Serv, 55-56; U.S. Pub. Health Serv, 56-57; Tenn. Valley Authority, 56-58; UN Statist. Off, Argentina, 61. Mem. Inter-Am. Statist. Inst. Fel. AAAS; fel. Statist. Asn; Agr. Econ. Asn; Mkt. Asn; Biomet. Soc; Indian Soc. Agr. Statist. Statistical methods; statistical survey methodology. Publ: Statistical investigation of a sample survey to obtain farm facts; Design and estimation in two-way stratification; Switchover design to measure advertising effect. Address: 850 Haverford Ave, Apt. 15, Pacific Palisades, Calif. 90272.

JESSER, CLINTON JOYCE, b. Underwood, N.Dak, Nov. 28, 34; m. 58; c. 2. SOCIOLOGY. B.A, Sioux Falls Col, 56; M.S, S.Dak. State, 58; Ph.D.(sociol), Mich. State, 62. Instr. sociol, Mich. State, summer 62; ASST. PROF. rural sociol, Missouri, Columbia, 62-64; SOCIOL, NORTHERN ILLINOIS, 64- Sociol. Asn; Rural Sociol. Soc; Soc. Study Social Prob. Sociological theory; professionals in modern society. Publ: Co-auth, The religion of the Dakota Indian, 59; auth, Community satisfaction of professionals in rural areas, Rural Sociol, 3/67. Address: 7 Moraine Terrace, DeKalb, Ill. 60115.

JESSOR, PROF. RICHARD, b. Brooklyn, N.Y, Nov. 24, 24; m. 48; c. 2. PSYCHOLOGY. B.A, Yale, 46; M.A, Columbia, 47; Soc. Sci. Res. Coun. res. fel, Ohio State, 50-51, Ph.D, 51. Asst. prof. PSYCHOL, COLORADO, 51-55, assoc. prof, 55-61, PROF, 61- Dir, prog. res. personal & soc. prob. behav, inst. behav. sci, Colorado, 65-; Nat. Inst. Ment. Health spec. res. fel.

Florence, Italy, 65-66. U.S.M.C, 42-46. Fel. Psychol. Asn; Sociol. Asn; Soc. Study Social Probs. Personality theory; problem behavior; clinical psychology. Publ: Society, personality and deviant behavior, Holt, 68; Issues in the phenomenological approach to personality, J. Individual Psychol, 61; Expectations of need satisfactions and drinking patterns of college students, Quart. J. Studies on Alcohol, 3/68. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

JESSUP, DR. JOE L(EE), b. Cordele, Ga, June 23, 13; m. 46; c. 1. BUSINESS ADMINISTRATION. B.S, Alabama, 36; M.B.A, Harvard, 41; LL.D, Chung-Ang Univ, Korea, 64. Exec. officer, off. dept. admin, U.S. Dept. State, 46; exec. asst. to adminstrs. adv. coun, War Assets Admin, 46-48; v.pres. in charge sales, Airkem Capitol Sales & Serv. Co, 48-49; assoc.prof. bus. admin, George Washington, 49-52, prof, 52, asst. dean sch. govt, 51-60, coordinator, U.S. Air Force resources mgt. prog, 51-57; MANAGING DIR, JESSUP & CO, 57- Consult. & trustee, Training-Within-Indust-Found. Mem. Civil Serv. Cmn, Va, 52-54; bd. dir, Hunter Assocs. Lab, Inc, 64; adv. coun, Friends of Chung-Ang Univ, Inc, 67- U.S. del, 10-14th Int. Mgt. Conf, 54, 57, 60 & 66. U.S.A, 41-46, Lt. Col; Bronze Star Medal. Soc. Adv. Mgt; Mgt. Asn; Mkt. Asn; Coun. Int. Progress Mgt; Soc. Personnel Admin. Career management and development; marketing and sales; management communications; communications surveys; corporate decisions; controls and communications. Address: Jessup & Co, 1026 17th St. N.W, Washington, D.C. 20036.

JETER, DR. DOUGLAS D(eLASHMETTE), b. Santuck, S.C, Oct. 26, 05. GEOGRAPHY, SOCIAL SCIENCE. A.B, Furman, 25; A.M, Georgia, 30; Ph.D.(geog, geol), North Carolina, 40. From instr. to asst. prof. Eng, hist, govt. & geog, Georgia, 27-40, prof. geog, geol. & govt. & head dept. geog, geol. & govt, Savannah Div, 46-48; assoc. prof. geog. & geol. & head dept, Davidson Col, 40-41; geol. & soc. sci, La. Polytech, 48-50; vis. prof, Appalachian State Col, 52; head dept. geog. & geol, Carson-Newman Col, 57-59; prof. geog. & geol. & head dept, Augusta Col, 59-61; W.Ga. Col, 61-63; prof. geog. & soc. sci, Marietta Center, Georgia, 63-64; self employed, 64- Vis. lectr, George Washington, 47. U.S.A, 41-46. AAAS; Asn. Am. Geog; Acad. Polit. & Soc. Sci. Economic geology; political and historical geography; military and constitutional government. Publ: Union county, economic and social; North Carolina kaolin deposits; Physical geographic factors determining settlement of the Catawbas. Address: Carlisle, S.C. 29031.

JETT, DR. STEPHEN C(LINTON), b. Cleveland, Ohio, Oct. 12, 38. GEOGRAPHY, ANTHROPOLOGY. A.B, Princeton, 60; Arizona, 62-63; Ph.D. (geog), Hopkins, 64. Instr. GEOG, Ohio State, 63-64; ASST. PROF. CALIFORNIA, DAVIS, 64- Asn. Am. Geog; Soc. Am. Archaeol. Conservation of natural resources; scenic resources and tourism; prehistoric migrations and contacts in the southwestern United States and tropical America; cultural ecology; landforms of the Colorado Plateau. Publ: Co-auth, Navajo wildlands: as long as the rivers shall run, Sierra, 67; auth, Pueblo Indian migrations: an analysis of the possible physical and cultural determinants, Am. Antiquity, 64; Tourism in the Navajo country: resources and planning, Navajo Tribal Mus, 67. Address: Dept. of Geography, University of California, Davis, Calif. 95616.

JEUCK, PROF. JOHN E(DWARD), b. Chicago, Ill, Oct. 17, 16. MARKETING, BUSINESS ADMINISTRATION. A.B, Chicago, 37, M.B.A, 38, fel, 40-41, Ph.D.(indust. rel), 49; hon. A.M, Harvard, 55. Instr. mkt, Chicago, 46-47, asst. prof, 47-50, assoc. prof, 50-52, prof. & dean sch. bus, 52-55; prof. bus. admin, Harvard, 55-58; ROBERT LAW PROF. BUS. ADMIN. & DIR. BUS. RES, CHICAGO, 59- U.S.N, 42-46, Lt. Econ. Asn; Mkt. Asn.(award, 50); Inst. Mgt. Sci. Marketing management; market organization and price policy. Publ: Ed, Readings in market organization and price policy; co-auth, Catalogs and counters, a history of Sears, Roebuck & Company. Address: Graduate School of Business, University of Chicago, Chicago, Ill. 60637.

JEVREMOVIC, PROF. SAVO D, b. Belgrade, Yugoslavia, Oct. 25, 29; nat; m. 58; c. 2. ECONOMICS. Ph.B, Paris, 48; B.S, Fordham, 53; M.A, N.Y. Univ, 55. Asst. ECON, sch. commerce, N.Y. Univ, 55-56; ASST. PROF, ALFRED, 56- Mil. Intel, U.S.A, 51-56, Res, 56- Econ. Asn; Econ. Hist. Asn. Economic planning in East European countries under Communist regimes; capital markets and their institutions in Western Europe. Address: Dept. of Economics & Business Administration, Alfred University, Alfred, N.Y. 14802.

JEWELL, PROF. MALCOM EDWIN, b. Woonsocket, R.I, Mar. 4, 28; m. 52; c. 3. POLITICAL SCIENCE. A.B, Harvard, 49; M.A, Columbia, 50; Ph.D. (polit. sci), Pa. State, 58. Instr. POLIT. SCI, KENTUCKY, 58-59, asst. prof, 59-62, assoc. prof, 62-66, PROF, 66- Vis. assoc. prof, Duke, 63-64. Ed, Midwest J. Polit. Sci, 67- U.S.A.F, 52-55, 1st Lt. Polit. Sci. Asn. National and state legislatures; legislative apportionment; elections and voting behavior. Publ: The state legislature; co-auth, The legislative process in the United States, Random, 66; auth, Legislative representation in the contemporary South, Duke Univ, 67. Address: 1024 Claiborne Way, Lexington, Ky. 40502.

JEWELL, DR. WILLIAM F(RANKLIN), III, b. Ann Arbor, Mich, May 24, 16; m. 49; c. 3. GEOGRAPHY. A.B, Michigan, 38, Ph.D, 57; M.S, Mich. State, 47. Asst. prof. geog, George Washington, 48-51; in charge div. conserv, Northwest. Mich. Col, 53-54; asst. prof. land & water conserv, Mich. State, 54-57; head develop. area prog, Detroit Metrop. Regional Planning Cmn, 57-60, sr. field coordinator Area Redevelop. Admin, 60-65; regional coordinator, Econ. Develop, Admin, 65-67; PLANNING & DEVELOP. COUNSEL, W.F. JEWELL & ASSOCS, 67- Dir, Lake Studies Lab, Mich, 54- Consult, naval logistics proj, George Washington, 49-60. U.S.N, 43-45. Asn. Am. Geog; Soil Sci. Soc. Coastal geomorphology; land inventory and planning; hydrography; economic development. Address: 2600 Geddes Ave, Ann Arbor, Mich. 48104.

JEWETT, DR. GLADYS M, b. Owosso, Mich, Jan. 29, 99; m. 19; c. 2. PSYCHOLOGY. Ph.D.(psychol), California, Los Angeles, 53. Psychologist, Children's Home Soc, Los Angeles, 44-47; clin. psychol. intern, Los Angeles Psychiat. Serv, 47-48, clin. psychologist, 53-55; clin. counsr. intern, Student Counseling Center, California, Los Angeles, 48-49, lectr. psychol, 50, assoc. clin. psychol. & supvr. clin. sch, 50-52; clin. psychologist, State Dept. Health, Nev, 53; sr. counseling psychologist, STUDENT COUNSELING CENTER, CALIFORNIA, LOS ANGELES, 55-57, MGR, 57-, LECTR. PSYCHOL, UNIV, 57- Psychol. Asn. Counseling; personality theory; infant and child development. Address: 1215 Beverly Green Dr, Beverly Hills, Calif. 90212.

JEX, PROF. FRANK B(IRD), b. Salt Lake City, Utah, June 12, 15; m. 42; c. 4. EDUCATIONAL PSYCHOLOGY. A.B, Brigham Young, 40; fel, Utah, 40-42, 46-49, M.A, 47, Ph.D.(ed. psychol), 49. From asst. prof. to PROF. ED. PSYCHOL, UTAH, 49- Consult, 49- Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed; Nat. Soc. Study Ed. Academic prediction; dynamics of the teaching-learning process; educational measurement. Publ: Predicting academic success beyond high school, Univ. Utah, 66; Using the cooperative general achievement tests to predict success in engineering, Ed. & Psychol. Measurement; G.A.T.B. scores as predictors of college grades, Personnel & Guid. J. Address: Dept. of Educational Psychology, University of Utah, Salt Lake City, Utah 84112.

JICKLING, DR. DAVID L(EE), b. Battle Creek, Mich, July 18, 27; m. 51; c. 5. POLITICAL SCIENCE. Ph.D.(polit. sci), Chicago, 53. Intern, Econ. Co-op. Admin, 51; asst, Midwest Admin. Center, 52-53; instr, Carleton Col, 53-55; mgt. analyst, Navy Mgt. Off, 55-58; PUB. ADMIN. ADV, Int. Co-op. Admin, 58-61; GOVT. GUATEMALA, AGENCY INT. DEVELOP, 61- U.S.A, 46-47. Soc. Int. Develop; Soc. Pub. Admin. Public administration; comparative government; public policy development. Address: U.S. AID Mission to Guatemala, State Dept, Washington, D.C. 20521.

JO, DR. YUNG-HWAN, b. Masan, Korea, Feb. 8, 32; U.S. citizen; m. 59; c. 3. POLITICAL SCIENCE. B.A, Lincoln Mem. Univ, 57; M.A, Tennessee, 59; Ph.D.(int. rels), American Univ, 64. Asst. prof. polit. sci, Adams State Col, 62-64; Colorado State, 64-66; vis. lectr. Asian studies, grad. sch. int. studies, Denver, 64-66; ASSOC. PROF. POLIT. SCI, ARIZONA STATE, 66- Res. grants, Colorado State, 64-66, Soc. Sci. Found. & Arizona State, 66-67. Polit. Sci. Asn; Asn. Asian Studies; Int. Studies Asn. Research on Japan's relations with Southeast Asia; comparative study of political development of Communist China, North Korea and North Vietnam. Publ: An interpretation of Prof. Kamikawa's view of Japanese diplomacy, In: Studies on Asia: 1964, 64; Japan-Korea relations and Asian diplomacy, ORBIS, Univ. Pennsylvania, summer 67; Agricultural collectivization as the developmental model for Communist China, Center Asian Studies, Arizona State, 11/67. Address: Dept. of Political Science, Arizona State University, Tempe, Ariz. 85281.

JOACHIM, SISTER M. ANN, O.P, b. Cologne, Germany, Oct. 15, 01; nat. POLITICAL SCIENCE, LAW. LL.B, Detroit Col. Law, 23, hon. J.D, 59; LL.M, Detroit, 24; A.B, Siena Heights Col, 31; M.A, Loyola (Ill), 33; Ph.D, Fribourg, Switz, 36. PROF. POLIT. SCI. & CHMN. DEPT, SIENA HEIGHTS COL, 36- Private practice, 23-; attorney, Dominican Motherhouse, 23-; vol. attorney, Lenawee County Off. Econ. Opportunity, 66- Mem, State Fulbright Cmt, Mich, 50- Bar Asn. Hospital law; immunity from liability in charitable institutions. Publ: Constitutions of the United States and Switzerland historically analyzed and compared; Why I entered the convent; So let your light shine, Kappa Beta Pi Legal Quart. Address: Dept. of Political Science, Siena Heights College, Adrian, Mich. 49221.

JOARDAR, DR. N(ONI) G(OPAL) D(EV), b. Banaras, India, Mar. 21, 98; nat; m. 19; c. 4. INTERNATIONAL RELATIONS. B.A, Calcutta, India, 17, M.A, 23; B.Ed, Patna, 20; Acharya Sastri (Sanskrit), 25; fel, Drew, 34; Carnegie res. fel, Yale, 35-37, Ph.D.(sociol), 49. V.pres, Lucknow Christian Col, India, 30-36, prof, 37-49; prof. ling, Georgetown, 50-51; int. rel, American Univ, 51-66; lectr. Asian culture, Hopkins, 51-66; RETIRED. Consult, Asian Embassies, D.C. Sociol. Asn; Oriental Soc. Comparative study of civilizations; literary heritage of Asia; cultural patterns of Asia. Publ: Indian Christians of Lucknow; Love and marriage; Population and its problems. Address: 8106 Lockney Ave, Takoma Park, Md. 20012.

JOB, DR. KENNETH A, b. Guttenberg, N.J, Feb. 2, 26; m. 50; c. 3. HISTORY, GEOGRAPHY. B.S, Jersey City State Col, 47; M.A, N.Y. Univ, 50, Ed.D. (hist), 60. ASSOC. PROF. SOC. SCI, PATERSON STATE COL, 60- Adj. staff, Newark State Col, 62-64; Fairleigh Dickinson, 62-65. Coun. Geog. Ed. Cultural geography; global, map, and time concepts and generalizations. Publ: Research in the CORE curriculum, U.S. Off. Ed, 63; co-auth, Study lessons in map reading, Follett, 65; Guides for geographic studies, Fearon, 66. Address: Dept. of Social Science, Paterson State College, Wayne, N.J. 07473.

JOBST, PROF. VALENTINE, III, b. Peoria, Ill, Aug. 19, 04. INTERNATIONAL LAW. A.B, Illinois, 26, A.M, 31, Ph.D, 35; Harvard, 26-27. Asst. reporter law of treaties, res. int. law, Harvard, 32-35; from asst. to prof. POLIT. SCI, ILLINOIS, URBANA, 35-65; EMER. PROF, 65- U.S.A.A.F, 42-45, Maj. Polit. Sci. Asn; Soc. Int. Law. Law of treaties. Address: Urbana Lincoln Hotel, Urbana, Ill. 61801.

JOCHER, PROF. KATHARINE, b. Philadelphia, Pa, Sept. 22, 88. SOCIOLOGY. A.B, Goucher Col, 22, LL.D, 61; scholar, Pennsylvania, 22-23, A.M, 23; Ph.D, North Carolina, 29; Litt.D, West. Col, 62. From res. asst. to res. prof. sociol, NORTH CAROLINA, 24-61, asst, inst. res. soc. sci, 24-29, res. assoc, 29-43, asst. dir, 29-57, assoc. dir, 57-59, EMER. PROF. SOCIOL, 61- Managing ed, Soc. Forces, 31-50, co-ed, 50-61. Pres, N.C. Conf. Soc. Serv, 52-53. Sociol. Asn; Acad. Polit. & Soc. Sci. Methodology in social research. Publ: Co-auth, Introduction to social research; In search of the regional balance of America; co-auth, Folk, region, society: selected papers of Howard W. Odum, Univ. North Carolina, 64. Address: Box 837, Chapel Hill, N.C. 27514.

JOEL, DR. CLARK, b. Berlin, Germany, June 5, 28; nat; m. 59; c. 1. ECONOMICS. A.B, George Washington, 49, A.M, 51; Ph.D, Wisconsin, 61. Prog. officer econ. planning, Korean Reconstruct. Agency, UN, 53-55; asst. econ. develop, Wisconsin, 55-58; asst. prof. econ, Norfolk Col. William & Mary, 58-62, assoc. prof, 62-63; prog. economist, U.S. Agency Int. Develop,

63-65; assoc, Robert R. Nathan Assocs, 65-66, MONETARY FISCAL ECONOMIST, ROBERT R. NATHAN TEAM, EL SALVADOR, 66- Econ. Asn. Economic development of underdeveloped countries; international economics; monetary theory. Publ: Economic program for Korean reconstruction; Problems in planning Korean reconstruction; Foreign exchange operations fund for Laos: an interesting experiment in monetary stabilization, Asia Surv, 3/66. Address: Robert R. Nathan Associates, U.S. Embassy, San Salvador, El Salvador, Central America.

JOEL, DR. WALTHER, b. Lubeck, Germany, Apr. 3, 99; nat; m. 28; c. 1. PSYCHOLOGY. B.S, Kiel, Germany, 22; A.M, Southern California, 31, Ph.D. (psychol), 34. Lectr. psychol, Southern California, 34-42; personnel technician, Los Angeles Civil Serv. Cmn, 42-44; assoc. personnel exam, Calif. State Personnel Bd, 44-45; sr. clin. psychologist, Napa State Hosp, 45-48; asst. chief clin. psychologist, Vet. Admin. Neuropsychiat. Hosp, Los Angeles, Calif, 48-56. Lectr, Southern California, 49-56; assoc. clin. prof, California, Los Angeles, 54-56; private practice, 56-; consult, Vet. Admin, 57-60. Psychol. Asn. Behavior maturity of children of nursery school age; interpersonal equation in projective methods; transference reactions of chronic regressed schizophrenic patients in group psychotherapy. Address: 11973 San Vicente Blvd, Los Angeles, Calif. 90049.

JOERG, PROF. FREDERICK C(HARLES), b. Washington, N.J, Feb. 6, 15; m. 43; c. 3. ECONOMICS. B.S, Fordham, 39; M.B.A, Harvard, 47. Instr. ECON, DUKE, 47-48, asst. prof, 48-50, assoc. prof, 50-52, PROF, 52- Prof, Mgt. Develop. Inst, Lausanne, Switz, 59-60. Ed, Cooperative Accountant. Investments; business finance; industrial management. Address: Dept. of Economics, Duke University, Durham, N.C. 27706.

JOFFE, DR. NATALIE F(RANKEL), Anthrop, see 10th ed, Soc. & Behav. Vols.

JOHANNABER, DR. JOHN W, Psychol. of Relig, see 10th ed, Soc. & Behav. Vols. Latest known address: 475 Riverside Dr, 13th Floor, New York, N.Y. 10027.

JOHANNESEN, DR. DELL BUSH, b. Charlotte, N.C, Sept. 30, 21; m. 46; c. 2. LABOR ECONOMICS. B.S, North Carolina, 43, M.S, 51, Ph.D, 56. Asst. personnel mgr, Asheboro plant, Gen. Elec. Co, N.C, 52-53; instr. ECON, N.C. State Col, 57-58; asst. prof, NORTH CAROLINA, 59-62, ASSOC. PROF, 62- Asst. managing ed, South. Econ. J, 57-66, assoc. ed. & bus. mgr, 67- W.A.V.E.S.R, 43-45, Lt.(jg). Development of labor law in North Carolina. Address: Dept. of Economics, University of North Carolina, Chapel Hill, N.C. 27534.

JOHANNESSEN, DR. CARL L(EWIS), b. Santa Ana, Calif, July 28, 24; m. 48; c. 1. GEOGRAPHY. B.A, California, Berkeley, 50, M.A, 53, Ph.D.(geog), 59. Hydrologist & climatologist, Dr. Arnold Court, Calif, 58; acting instr. GEOG, San Francisco State Col, 56 & California, Davis, 59; ASSOC. PROF, OREGON, 59- Simon P. Guggenheim & Agr. Develop. Coun. fels, 65-66; faculty res. awards, 67; summers, res. in Cent. Am. U.S.N.R, 43-46. AAAS; Asn. Am. Geog; Am. Geog. Soc. Historical plant geography, especially of tidal marshes and Willamette Valley, Oregon; savannas of Honduras, forests in Costa Rica; ethnobotany in Meso-America. Publ: Savannas of interior Honduras, Ibero-Americana, 63; Domestication process in trees reproduced by seed: the pejibaye palm in Costa Rica, Geog. Rev, 66, Pejibaye palm: yields, prices and labor costs, Econ. Bot, 66. Address: Dept. of Geography, University of Oregon, Eugene, Ore. 97403.

JOHANNIS, DR. THEODORE B(ENJAMIN), JR, b. Claremont, N.H, Dec. 29, 14; m. 42; c. 2. SOCIOLOGY. B.A. & M.A, State Col. Wash, 48; Ph.D, Fla. State, 55. Asst. prof. sociol, Linfield Col, 48-50; asst. home & family life, Fla. State, 51-53; from asst. prof. to PROF. SOCIOL, OREGON, 53- Managing ed, Family Coordinator; bus. mgr, Pac. Sociol. Rev. Mem. bd. dirs, Nat. Coun. Family Rels, 66- Fel. Sociol. Asn; Home Econ. Asn. Differential sex roles in family, workplace and community; sociology of leisure; intrafamilial decision-making and division of labor. Publ: Co-auth, Parent-adolescent relationships, J. Home Econ, 5/59, Research on the family and leisure, Family Life Coordinator, 9-12/60 & Religious perspective and the authority structure of the family, Pac. Sociol. Rev, spring 67. Address: Dept. of Sociology, University of Oregon, Eugene, Ore. 97403.

JOHANNSEN, DR. WALTER JAMES, b. Milwaukee, Wis, May 26, 30; m. 56; c. 2. CLINICAL PSYCHOLOGY. B.S, Marquette, 52; City Col, 53-54; M.A, Wisconsin, 57, Ph.D.(psychol), 59. Trainee clin. psychol, Vet. Admin, 55-59, staff psychologist, Wood, Wis, 59-62, chief clin. psychol. res, 62-63; coordinator res, Curative Workshop of Milwaukee, 63-65, PSYCHOLOGIST, ST. MARY'S HILL HOSP, 65- Asst, Wisconsin, 56-59; instr, sch. med, Marquette, 60-63, asst. prof. phys. med, 63-65, asst. clin. prof. occup. & environ. med, 65-; lectr, nursing ed. dept. Alverno Col, 61- Resident, Hosp. Ment. Diseases, Milwaukee, 58. Consult, St. Mary's Hill Sanitarium, 60-; Milwaukee Children's Court, 67- Dipl, Am. Bd. Exam. Prfnl. Psychol, 65. U.S.A, 52-54. AAAS; Psychol. Asn; Rehab. Asn. Psychopathology; psychotherapy; motivation; personality theory. Publ: Responsiveness of chronic schizophrenics and normals to social and non-social feedback; Motivation in schizophrenic performance, Psychol. Rep, 65; Visual perception as a vunction of chronicity in schizophrenia, Brit. J. Psychiat, 65. Address: 3230 N. 51st Blvd, Milwaukee, Wis. 53216.

JOHANSEN, PROF. CHESTER E(UGENE), b. Minneapolis, Minn, Nov. 1, 06; m. 39; c. 2. POLITICAL SCIENCE, ECONOMICS. B.A, Macalester Col, 29; M.A, George Washington, 31. Off. mgr, Home Owners Loan Corp, 33-41; head methods & procedures, Off. Price Admin, 41-42; personnel officer for. funds control, U.S. Treas, 42-43; admin. officer, Int. Tel. & Tel. Corp, 46-48, asst. indust. rels. dir, fed. telecommunications labs. div, 48-51, asst. v.pres. indust. rels, 51-58, v.pres. labs. div, 58-60, dir. personnel & prfnl. staff rels, Fed. Labs. Div, 60-62, admin. serv, 62-66; ASST. PROF. MGT, RUTGERS, 66-, LECTR, UNIV. COL, 62- Mgt. consult, govt. & indust, 64- Mem. cmts, manpower & employ. statist. & wages & indust. rels, bus. res. adv. coun, U.S. Bur. Labor Statist, 61- U.S.N.R, 43-46, Lt. Comdr. Econ. Asn; Indust. Rels. Res. Asn; Mgt. Asn; Acad. Polit. & Soc. Sci. Labor-management relations; unionism; collective bargaining; role of government; wages, hours and conditions of employment; manpower and employment statistics; personnel administration; industrial benefit programs. Publ: Preparation for bargaining; Labor turnover statistics and their use by business. Address: 731 Boulevard, Westfield, N.J. 07090.

JOHANSEN, PROF. ROBERT C(HARLES), b. Freeport, Ill, Mar. 1, 40; m. 65. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Manchester Col, 62; M.A, Columbia, 63, Int. Rels. scholar, 63-64, fel, 64-65, President's fel, 66, Nat. Sci. Found. fel, 66-67. ASST. PROF. POLIT. SCI, MANCHESTER COL, 67- Polit. Sci. Asn. Politics of arms control; American policy making and negotiating on arms control issues. Address: R.R. 1, Ridott, Ill. 61067.

JOHANSEN, PROF. SIGURD, b. Tyler, Minn, Nov. 3, 02; m. 36, 48; c. 2. SOCIOLOGY. A.B, Minnesota, 32, A.M, 34; Ph.D, Wisconsin, 41. Asst. prof. sociol, NEW MEXICO STATE, 36-41, assoc. prof, 41-47, PROF. SOCIOL. & HEAD DEPT. HIST. & SOC. SCI, 47- Mem, Pop. Reference Bur. Sociol. Asn; Rural Sociol. Soc; Pop. Asn; Acad. Polit. & Soc. Sci. General sociology; marriage and the family; population problems. Publ: Population of New Mexico; Migratory-cosual workers in New Mexico; Rural social organization in a Spanish-American culture area. Address: Dept. of Sociology, New Mexico State University, Las Cruces, N.Mex. 88001.

JOHN, ELMER ROY, b. St. Paul, Minn, July 28, 16; m. 44; c. 3. PERSONNEL PSYCHOLOGY. B.S, Minnesota, 45, M.A, 52. Instr. & lectr. psychol, Minnesota, 45-49; personnel dir, Midland Coops, Inc, 49-59; DIR. personnel res, GEN. MILLS, INC, 59-60, PERSONNEL SERVS, 60- Consult, 47- Mem. adv. coun, indust. rels. center, Minnesota, 57-; mem. bd. dirs, Mutual Serv. Ins. Co. Psychol. Asn; Indust. Rels. Res. Asn; fel. Soc. Adv. Mgt. Identification and measurement of executive potential; analysis and appraisal of managerial effectiveness and organizational utilization of manpower. Publ: Interrelationships of selected personnel functions, J. Appl. Psychol. Address: 9200 Wayzata Blvd, Minneapolis, Minn. 55440.

JOHN, DR. ERWIN R(OY), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols.

JOHN, PROF. MACKLIN E(LIDA), b. Pawpaw, Ill, Jan. 23, 06; m. 31; c. 2. RURAL SOCIOLOGY. B.S, Iowa State Col, 29, M.S, 32; Ph.D, Cornell, 37. PROF. RURAL SOCIOL. & HEAD DEPT. AGR. ECON. & RURAL SOCIOL, PA. STATE, 36- Rural Sociol. Soc; Sociol. Asn. Community organization; social psychology. Publ: Farm life is different today, Exten. Serv. Rev; Impact of technology on rural values, J. Farm Econ; co-auth, Story of adolescence and milk, Pa. Agr. Exp. Sta. Report. Address: Dept. of Agricultural Economics & Rural Sociology, Pennsylvania State University, University Park, Pa. 16802.

JOHNPOLL, DR. BERNARD KEITH, b. Gillette, N.J, June 3, 26; m. 44; c. 4. POLITICAL SCIENCE. B.A, Boston, 59; Nat. Defense Ed. Act fel, Rutgers, 60-63, M.A, 63; Ph.D.(polit. sci), State Univ. N.Y. Albany, 66. Lectr. POLIT. SCI, Rutgers, 62-63; asst. prof, Hartwick Col, 63-65; vis. asst. prof, Saskatchewan, 65-66; ASSOC. PROF, STATE UNIV. N.Y. ALBANY, 66- Polit. Sci. Asn. American and Marxian political philosophies; state government; East European government; Canadian and United States politics. Publ: Canadian new index, Univ. Saskatchewan, 66; The politics of futility, Cornell, 67; Thwarting city slickers, Nat. Civic Rev, 65. Address: Dept. of Political Science, GSPA, State University of New York at Albany, 179 Partridge St, Albany, N.Y. 12203.

JOHNS, DR. ALBERT CAMERON, b. Rockford, Ill, Dec. 28, 14; m. 41; c. 3. POLITICAL SCIENCE. B.A, Chapman Col, 48; Southern California, 48-49; M.A, Claremont Grad. Sch, 63, Ph.D.(govt), 65. Newspaper reporter, Pasadena Star News, Calif, 50-52; dir. pub. rels, Tournament of Roses Asn, 52-59; ed. real estate sect, Los Angeles Times, 59-61; pres, Johns, Griffin & Schrader, Inc, Advert. Agency, 61-64; asst. prof. govt, Chapman Col, 64-66, assoc. prof. & chmn. dept, 66-67; assoc. prof. POLIT. SCI, Pa. State, 67; ASSOC. PROF. & CHMN. DEPT, NEVADA SOUTHERN, 67- Instr, Redlands, 63-64. U.S.A, 42-46, Med.Serv.C.Res, 46-56, 1st Lt. Polit. Sci. Asn. Urban studies; political theory; community studies; the southern California megalopolis, growth and development; California and Nevada state and local governments. Publ: Down to earth, weekly column, 59-61 & Exploding megalopolis, series, 60-61, Los Angeles Times; Southern California megalopolis, Nat. Real Estate Investor, 7/61. Address: Dept. of Political Science, Nevada Southern University, Las Vegas, Nev. 89109.

JOHNS, MAJ. CLAUDE J, JR, U.S.A.F, b. Jacksonville, Fla, Aug. 28, 30; m. 56; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Fla. State, 52, M.S, 53; Ph.D.(polit. sci), North Carolina, 64. U.S. AIR FORCE, 56-, instr. POLIT. SCI, U.S. AIR FORCE ACAD, 61-62, ASSOC. PROF, 64- Polit. Sci. Asn; Int. Studies Asn. American government; civil-military relations and national security policy; contemporary field theory and methodology. Publ: The USAF ICBM program, U.S. Air Force Acad, 1/65; co-auth, American defense policy, Johns Hopkins Univ, 12/68. Address: Dept. of Political Science, U.S. Air Force Academy, Colo. 80840.

JOHNS, DR. DONALD RAY, b. Kendrick, Idaho, Jan. 23, 30; m. 54; c. 1. PSYCHOLOGY. B.S, Lewis & Clark Col, 54; M.A, Denver, 59, fel, 59-60, Ph.D. (clin. psychol), 61. Asst. psychologist, Fed. Correctional Inst, Colo, 58-59; instr. clin. psychol, med. sch, Colorado, 61-62; staff psychologist, North. State Hosp, 62-65, proj. dir. geriat, 65-67; ASST. SUPVR. PLANNING, DEPT. OF INSTS, 67- Consult, Dept. Voc. Rehab, Colo, 60-61; Wash. State Penitentiary, 64-67; Sedro Woolley Pub. Schs, 64-67. U.S.A, 54-56. Psychol. Asn. Comprehensive planning in corrections; geriatric care; public school program structure. Publ: Antisocial lifestyles, 8/64, Thinking time for clinical staff, 10/65 & Preventive psychiatry and the concept of etiology, 7/66, Bull. Wash. State Div. Ment. Health. Address: Institutions Building, Olympia, Wash. 98501.

JOHNS, DR. GILBERT R(OLAND), b. Oak Park, Ill, July 10, 31; m. 56; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Illinois, 53; Ph.D, Indiana, 60. Asst. prof. PSYCHOL, OHIO, 57-65; ASSOC. PROF, COLO. COL, 65-, DEAN SUMMER SESSION, 67- AAAS; Psychol. Asn. Sensory processes; learning; history of science and psychology. Address: Colorado College, Colorado Springs, Colo. 80903.

JOHNS, PROF. RAY E(ARL), b. Ishpeming, Mich, Sept. 5, 00; m. 23; c. 2. SOCIOLOGY. B.S, George Williams Col, 24; M.S.S, Michigan, 40; Ph.D, Columbia, 46; hon. H.M, Springfield Col, 43. Assoc. exec, YMCA, Mich, 24-38, prog. exec, Nat. Coun, 38-41; nat. dir, United Serv. Orgn, Inc, 41-46; gen. exec, YMCA, Boston, 46-66; CASSIDY VIS. RES. PROF. ORGN. BEHAVIOR, SCH. SOC. WORK, TORONTO, 66- Lectr, Springfield Col, 50, 52, 54; schs. soc. work, Michigan, 35-38, Boston, 48-54, Boston Col, 53-56. Consult. mgt. develop, Can. Welfare Coun, Ottawa, 66- Fel. Sociol. Asn. Community analysis; administration; social change; organizational behavior. Publ: Executive responsibility; co-auth, Community organization and agency responsibility; auth, Confronting organizational change, Asn. Press, 63. Address: Norway Hill, Hancock, N.H. 03449.

JOHNS, PROF. VERNON O(RVILLE), b. Longford, Kans, Sept. 14, 00. ECONOMICS. A.B, Kansas, 23, A.M, 26, Ph.D, 48; Minnesota, 25-26. Instr. ECON, VA. POLYTECH, 26-27, asst. prof, 27-42, assoc. prof, 42-49, PROF, 49- Instr, Kansas, 41-42. Econ. Asn. Property taxation. Address: Dept. of Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24060.

JOHNSGARD, PROF. KEITH W(ELLSLEY), b. Fargo, N.Dak, Nov. 13, 27; m. 50; c. 3. PSYCHOLOGY. B.S, North Dakota, 50, M.S, 51; Ph.D.(psychol), State Col. Wash, 55. Counsr, State Col. Wash, 54-55; from instr. to PROF, PSYCHOL, SAN JOSE STATE COL, 55- U.S.A, 46-47. Group therapy. Publ: Co-auth, The semantic differential and inferred identification, Psychol. Reports, 64, Group therapy with normal college students, Psychotherapy, 65 and The competitive racing driver, J. Sports Med, 68. Address: Counseling Center, San Jose State College, San Jose, Calif. 95114.

JOHNSON, DR. A. REX, b. Huntington, Utah, June 4, 98. MARKETING. B.S, Brigham Young, 24; Washington (Seattle), 27; A.M, George Washington, 31, Ph.D, 35. Instr. bus. admin, Brigham Young, 24-30, from asst. prof. to prof. mkt, 30-37, dean men, 36-37; economist, U.S. Soc. Security Bd, 38-41; admin. officer, Off. Emergency Mgt, 41-43; head retail div, War Food Admin, 43-44; asst. to dir. finance, U.S. Dept. Agr, 44-45, asst. dir. off. for agr. rel, 45-50; prof. mkt, Maryland, 50-51; pub. admin, George Washington, 51-54, bus. admin, 54-63, dir. U.S. Navy grad. comptrollership prog, 54-63; dir. sch. bus, NEVADA SOUTHERN, 63-67, LECTR. MGT, 67- Prof. lectr, sch. govt, George Washington, 38-50. Consult, Henri Morris, Inc, 50-63; South. Lab, Inc, 50-63; Calverts, 50-60. Economist, U.S. Civil Serv. Cmn, 30-33. Chmn. Nat. Cmt. Co-op. with For. Agr. Off. & Students, 45-50. Secy, U.S. Secy. For. Agr. Trade Policy Adv. Cmt. Chevalier du Merite Agr, France, 49. Mem, govt. opers. adv. cmt, U.S. Chamber Commerce, 61-64. Mkt. Asn. Marketing administration; foreign trade; market distribution, regional and international. Address: School of Business, Nevada Southern University, Las Vegas, Nev. 89609.

JOHNSON, DR. A(LBERT) PEMBERTON, b. Annapolis, Md, May 27, 11; m. 42; c. 1. PSYCHOLOGY. B.Eng, Hopkins, 32; M.S, Stevens Inst. Tech, 34; Ph.D.(personnel psychol), Purdue, 42. Asst, human eng. lab, Stevens Inst. Tech, 34-36; asst. dir. personnel, Vick Chem. Co, N.Y, 36-38; asst. to & asst. dir. personnel, Purdue, 38-42, coordinator personnel guid, 46-49; proj. dir, Ed. Testing Serv, N.J, 49-55; counsr, COUNSELING CENTER, NEWARK COL. ENG, 55-56, asst. dir, 56-60, DIR, 60- Co-chmn, joint cmt. on career guid. in sci, Am. Personnel & Guid. Asn, Nat. Sci. Teachers Asn. & Sci. Manpower Cmn, 64-65. U.S.A.F, 42-46, Res, 46-, Maj. Fel. AAAS; fel. Psychol. Asn; Soc. Eng. Ed; Soc. Mech. Eng; Personnel & Guid. Asn; Ed. Res. Asn. Early identification of scientific and engineering talent; selection and guidance testing; evaluation of personnel performance. Publ: Co-auth, Toward cooperation in career guidance in science, Sci. Manpower Cmn, 65, Psychological research in bombardier training & Law school admissions test and suggestions for its use. Address: Counseling Center, Newark College of Engineering, Newark, N.J. 07102.

JOHNSON, DR. ALFRED E(DWIN), b. Ellsworth, Kans, Aug. 19, 35; m. 57; c. 2. ANTHROPOLOGY. B.A, Kansas, 57; M.A, Arizona, 60, Ph.D.(anthrop), 65. Asst. archaeologist, Ariz. State Mus, Univ. Ariz, 60-65; ASST. PROF. ANTHROP, KANSAS, 65- Soc. Am. Archaeol; Anthrop. Asn. North American archaeology, especially the southwest and the Great Plains. Publ: The Trincheras culture of northern Sonora, 63 & Archaeological excavations in Hohokam sites of southern Arizona, 64, Am. Antiquity; co-auth, Salvage archaeology in the Painted Rocks reservoir area, western Arizona, Anthrop. Papers, Univ. Ariz, 65. Address: Dept. of Anthropology, University of Kansas, Lawrence, Kans. 66044.

JOHNSON, PROF. ALTON C, b. Argyle, Wis, Apr. 27, 24; m. 59; c. 2. PERSONNEL MANAGEMENT, INDUSTRIAL RELATIONS. B.A, St. Olaf Col, 49; M.B.A, Wisconsin, 53, Ph.D.(commerce), 57. Instr. MGT, Oklahoma, 53-55; asst. prof, WISCONSIN, 57-62, assoc. prof, 62-65, PROF, 65-, CHMN. DEPT, 66-, mem. faculty, nat. agr. exten. center adv. study, 59-67. Proj. leader, Ford res. grant, 60-63; co-prin. investr, U.S. Off. Ed. res. grant, 64-66; Danforth Assoc, 64. Mem, Agency Int. Develop. Mission, Jamaica, summer, 62. U.S.A, 42-46. Acad. Mgt; Geront. Soc; Mgt. Asn. Personnel management, especially wage and salaries, performance and motivation and labor market analysis; older workers, particularly retirement plans, mobility and retirement education; general management, especially foreman and supervision, motivation organization analysis and individual and group behavior. Publ: Co-auth, Reactions of students and agents to recruiting practices, J. Ins, 62; auth, Multi-employer pensions and labor mobility, Harvard. Bus. Rev, 63; The changing duties of today's foreman, Mgt. of Personnel Quart, 67. Address: 329 Commerce Bldg, University of Wisconsin, Madison, Wis. 53706.

JOHNSON, DR. ARLIEN, Soc. Work, see 10th ed, Soc. & Behav. Vols.

JOHNSON, DR. AUTREY B, JR, b. Texarkana, Ark, Sept. 2, 29; m. 55; c. 5. PSYCHOLOGY. B.S, Ark. Agr, Mech. & Norm. Col, 51; M.Ed, Arkansas, 61, Ed.D.(sci. ed, guid), 62. ASSOC. PROF. PSYCHOL, SOUTHERN UNIV, 62-U.S.A.F, 51-55. Counseling; child psychology; testing. Address: Dept. of Psychology, Southern University, P.O. Box 9955, Baton Rouge, La. 70813.

JOHNSON, PROF. BROOKE R(ONALD), b. Cherokee Co, Ga, Oct. 14, 34; m. 54; c. 5. PSYCHOLOGY. B.S, Georgia, 55, M.Ed, 57, Ph.D.(psychol), 61. Psychometrist, guid. center, Georgia, 57-58, counsr, 58-61; assoc. prof. psychol, Carson-Newman Col, 61-65; CENTER ADMINSTR, NEW RIVER MENT. HEALTH CENTER, 65- Assoc. prof, Appalachian State, 65- Psychol. Asn; Soc. Clin. Hypnosis. Hypno-therapy; community mental health. Address: New River Mental Health Center, 210 W. King St, Boone, N.C. 28607.

JOHNSON, DR. BRUCE McK, b. New Brunswick, N.J, Jan. 28, 33; m. 55; c. 3. STATISTICS. B.S, Rutgers, 55; Ph.D.(opers. res), Cornell, 64. Asst. prof, Northwestern, 60-65; ASSOC. PROF. STATIST, CONNECTICUT, 65- Spec. res. engr, West. Elec. Co, summer, 65. Inst. Math. Statist. Stochastic processes; inference. Publ: The ergodicity of series queues with general priorities, Ann. Math. Statist, 12/65; co-auth, Optimal linear inventory control and first order exponential smoothing, Opers. Res, 4/67. Address: 15 Thomas Dr, Mansfield Heights, Storrs, Conn. 06268.

JOHNSON, DR. BYRON L(INDBERG), b. Chicago, Ill, Oct. 12, 17; m. 38; c. 3. ECONOMICS. A.B, Wisconsin, 38, A.M, 40, Ph.D, 47. Statistician. State Bd. Health, Wis, 40-42; analyst, fiscal div, U.S. Bur. Budget, 42-44; chief pub. aids sect, Soc. Security Admin, 44-47; from asst. prof. to assoc. prof. econ. Denver, 47-56; admin. asst. to Governor of Colorado, 57-58; mem, U.S. Cong, 59-60; asst. dep. dir. prog, Int. Coop. Admin, 61-62; spec. asst. int. confs, int. develop. orgn. staff, Agency Int. Develop, 62-64; worldwide coordinator, coop. housing, 64-65; PROF. ECON, COLORADO, 65- Mem, Colo. Legis. 55-56. Consult, Mayor's finance study, New York City, N.Y, 51; Denver Finance Study, Colo, 54; Gov. Tax Study, 58; House Banking & Currency Cmt, 64. Mem. cmt. church & econ. life, Nat. Coun. Churches, 59-, prog. bd, dept. int. affairs, 67-; transportation adv. cmt, Dept. Housing & Urban Develop, 66-; welfare res. rev. adv. cmt, soc. & rehab. serv, Dept. Health Ed. & Welfare, 66-68. Econ. Asn; Political Asn; Regional Sci. Asn. Principle of equalization applied to the allocation of grants-in-aid; federal-state-local relations; international aid in economic development. Publ: Need is our neighbor, Friendship, 66; co-auth, Christianity amid rising men and nations, Asn. Press, 66; Don't call it A.I.D! the problem is development, (in press). Address: Dept. of Economics, University of Colorado, 1100 14th St, Denver, Colo. 80202.

JOHNSON, PROF. CARL HERBERT, Geog, see 10th ed, Soc. & Behav. Vols.

JOHNSON, DEAN C(HARLES) E(LLICOTT), b. Worland, Wyo, Sept. 7, 20; m. 42; c. 3. ACCOUNTING. Ph.D.(bus. admin), Minnesota, 52. Lectr, California, 51-52; assoc. prof. bus. admin, OREGON, 52-57, PROF. ACCT, 57-, HEAD DEPT. ACCT. & BUS. STATIST, 59-, DEAN, COL. LIB. ARTS, 63-Ford fel, Inst. Appl. Basic Math. to Bus, Harvard, 59-60. U.S.A, 43-46. Acct. Asn.(v.pres, 59-60). Finance; economics. Publ: Co-auth, Accounting, the basis for business decisions, Intermediate accounting, 63 & Advanced accounting, 65, McGraw. Address: College of Liberal Arts, University of Oregon, Eugene, Ore. 97403.

JOHNSON, CHARLES W(ILLIAM), Psychol, Statist, see 10th ed, Soc. & Behav. Vols.

JOHNSON, DR. C(LARENCE) DALE, b. Alexandria, Minn, June 30, 24; m. 48; c. 1. SOCIOLOGY. B.A, Minnesota, 50, M.A, 52, Ph.D, 61. Instr. SOCIOL, Minnesota, 52-53; asst. prof, St. Olaf Col, 53-59; instr, Kansas, 59-63; asst. prof, SAN DIEGO STATE COL, 63-66, ASSOC. PROF, 66-, CHMN. DEPT, 68- Consult, San Diego Econ. Opportunities Cmn, 65-66; San Diego City Schs, 66-; West. Behav. Sci. Inst, 67. Sociol. Asn; Soc. Sci. Study Relig. Sociology of religion; social disorganization; applied sociology. Publ: Co-auth, A social profile of a poverty area, Calif. Book, 66. Address: 8590 Renown Dr, San Diego, Calif. 92119.

JOHNSON, PROF. CLAUDIUS O(SBORNE), b. Greenville, Va, Jan. 6, 94. GOVERNMENT. A.B, Richmond, 17, Litt.D, 61; A.M, Chicago, 21, Ph.D, 27. Instr. polit. sci, North Dakota, 21-24, asst. prof, 24-26; prof, Chattanooga, 26-28; POLIT. SCI, WASHINGTON STATE, 28-60, EMER. PROF, 60- Fulbright lectr, Australia, 53, Greece, 61-62; vis. prof, Colorado, 62-63, Montana, 63-65; Calgary, 65-66. U.S.A, 17-19. Polit. Sci. Asn. (v. pres, 54). Borah; George William Norris; initiative and referendum; American government. Publ: American national government; Judah P. Benjamin plants the states rights doctrine in the interpretation of the British North American Act, Can. Bar Rev, 9/67. Address: Dept. of Political Science, Washington State University, Pullman, Wash. 99163.

JOHNSON, DR. DALE LADSWORTH, b. Sanish, N.Dak, Jan. 27, 29; m. 52; c. 3. PSYCHOLOGY. B.A, North Dakota, 51, Am. Found. Blind fel. & M.A, Kansas, 54, Ph.D, 57. Psychol. trainee, Kansas, 53-57; psychologist, Vet. Admin. Hosp, 57-61, dir. patients' training lab, 61-64; ASSOC. PROF. PSYCHOL, HOUSTON, 64-, CHMN. DEPT, 67- Consult, Vet. Admin. Hosp, Houston, 64-; Day Care Asn, 66- Psychol. Asn; Inter-Am. Soc. Psychol; Soc. Res. Child Develop; Nat. Soc. Study Ed. Social and intellectual development of children; Group dynamics applied to psychiatric treatment; culture and psychopathology; existential psychology. Publ: Human relations training for psychiatric patients: a follow-up study, Int. J. Soc. Psychiat, 65; A human relations training program for hospital personnel, J. Health & Human Behav, 66; co-auth, The draw-a-man test and raven progressive matrices performance of Guatemala, Maya and Ladino children, Revista Interamericana de psicologia, 67. Address: Dept. of Psychology, University of Houston, Cullen Blvd, Houston, Tex. 77004.

JOHNSON, DR. DALE LEONARD, b. Kadoka, S. Dak, Feb. 4, 34; m. 55; div; c. 3. SOCIOLOGY. B.A, San Francisco State Col, 59; M.A, Stanford, 61, Ph.D, 67. Lectr. sociol, California, Riverside, 65-66; ASST. PROF. SOCIAL THEORY & ECON. DEVELOP, PITZER COL, 66- Asst. prof. govt, Claremont Grad. Sch, 66-; Soc. Sci. Res. Coun. res. grant, 67. U.S.A.F, 54-58, Capt. Sociol. Asn; Latin Am. Studies Asn. Social and political aspects of economic development; Latin American studies; sociology of intellectuals. Publ: Industrialization, social mobility and class formation, Studies in Comp. Int. Develop, 2/68; Burquesia nacionalista y progresista en America Latina, Cuadernos del Centro de Estudios Socio-Economicos, Santiago, Chile, 2/68. Address: Dept. of Sociology, Pitzer College, Claremont, Calif. 91711.

JOHNSON, DR. DANIEL EMIL, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

JOHNSON, DR. DANIEL F, b. Charleston, W. Va, Aug. 6, 39; m. 58; c. 2. PSYCHOLOGY. A.B, Columbia, 61, M.A, 62, Ph.D.(psychol), 66. Asst. PSYCHOL, Columbia, 61-64, preceptor, 64-65; ASST. PROF, VA. POLYTECH, 65- Psychol. Asn. Stimulus control; behavior theory; psychophysics. Publ: Co-auth, Mirror image reversal in pigeons, Science, 65; Acquisition and transfer of zero delay matching, Psychol. Reports, 66; auth, Some determiners of attention, J. Exp. Anal. Behav, 68. Address: Dept. of Psychology, 403 Davidson Hall, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

JOHNSON, PROF. DAVID B(UTLER), b. Madison, Wis, July 24, 18; m. 41; c. 3. ECONOMICS. B.A, Antioch Col, 42; M.S, Wisconsin, 46, Ph.D.(econ), 55. Field exam. labor rels, Nat. Labor Rels. Bd, 46-47; staff asst, Atomic Energy Cmn, 50-56, chief, contractor personnel br, 56-57; asst. prof. ECON, WISCONSIN, MADISON, 57-59, assoc. prof, 59-63, PROF, 63-, CHMN. DEPT, 65- U.S.A, 42-45. Econ. Asn; Indust. Rels. Res. Asn.(secy-treas, 64-). Collective bargaining; public policy in labor-management relations; wage legislation. Publ: Dispute settlement in atomic energy plants, Indust. & Labor Rels. Rev; co-auth, Blue to white collar mobility, Proc. Am. Statist. Asn, 64; auth, Federal-state cooperation in improvement of workmen's compensation, U.S. Dept. Labor & U.S. Atomic Energy Cmn, 65. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

JOHNSON, DR. DAVID C(HESTER), b. Grand Rapids, Minn, Jan. 21, 33; m. 55; c. 3. SOCIOLOGY. B.A, Gustavus Adolphus Col, 54; M.A, Iowa, 56, Ph.D. (sociol), 59. Asst. prof. SOCIOL, LUTHER COL, 57-62, assoc. prof, 62-68, PROF, 68-, HEAD DEPT, 57- Nat. Sci. Found. sci. faculty fel, Inst. Soc. Res, Norway, 65-66. Mem, Am-Scandinavian Found. Soc. Sci. Study Relig; Sociol. Asn. Sociology of religion and of American minority groups; structure of American higher education; drinking behavior in Scandinavia. Address: Dept. of Sociology, Luther College, Decorah, Iowa 52101.

JOHNSON, PROF. D(AVID) GALE, b. Vinton, Iowa, July 10, 16; m. 38; c. 2. ECONOMICS. B.S, Iowa State Col, 38, Ph.D, 45; M.S, N.Dak. State Teachers Col.(Valley City), 48; Ph.D.(psychol), Kentucky, 54. Psychologist, Child Guid. Serv, Ky, 49-51; trainee psychol, Vet. Admin. Hosp, Lexington, 51-54; psychologist, regional off, Vet. Admin, La, 54-57, chief psychologist, 57-61; Vet. Admin. Center, Whipple, Ariz, 61-63; ment. hyg. clin, Vet. Admin. Regional Off, Louisville, Ky, 63-64; CHIEF CLIN. PSYCHOL, VET. ADMIN. HOSP, 64- Psychologist, State Dept. Hosps, La, 54-56, 59-60; dir, Personal Counseling Serv, Centre Col, 66-; coordinator field assessment, Peace Corps Training Prog, Univ. Kentucky, 67. Consult, U.S. Pub. Health Serv. Hosp, New Orleans, 57-61; Ky. Dept. Ment. Health, 67-; res. consult, Ky. State Hosp, Danville, 64-66. Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F, 42-45. Psychol. Asn; Acad. Psychother; Acad. Relig. & Ment. Health. Psychotherapy; behavior modification; differential selection of personnel by psychological methods; forensic psychology. Publ: Selection and supervision of psychotherapists, In: Training of psychotherapists; co-auth, Two contradictory assumptions underlying prognosis and movement with psychotherapy, Am. Psychologist. Address: 2094 Old Nassau Rd, Lexington, Ky. 40504.

JOHNSON, DR. DAVIS G(ILMAN), b. Springfield, Mass, Oct. 26, 18; m. 49; c. 5. PSYCHOLOGY. A.B, Amherst Col, 41; M.A, Columbia, 47, Ph.D, 51. Asst. prof. psychol, Conn. State Teachers Col.(New Haven), 48-52; asst. dean student personnel, State Univ. N.Y. Col. Med, Syracuse, 52-63; asst. dir. div. ed, ASN. AM. MED. COLS, 63-67, DIR. DIV. STUDENT AFFAIRS, 67- Counsr, Voc. Counseling Serv, Inc, 48-52. U.S.A, 42-46, Lt. Psychol. Asn; Personnel & Guid. Asn. Selection and guidance of medical students; vocational counseling and adjustment; psychological tests and measurements. Publ: Effect of vocational counseling on self-knowledge; Actuarial approach to medical student selection; co-auth, Doctor or dropout? a study of medical student attrition, Asn. Am. Med. Cols, 66. Address: 1575 Ashland Ave, Evanston, Ill. 60201.

JOHNSON, PROF. DONALD B(RUCE), b. Cloquet, Minn, Mar. 4, 21; m. 45; c. 3. POLITICAL SCIENCE. A.B, Minnesota, 43, A.M, 48; Ph.D, Illinois, 52. Asst. POLIT. SCI, Illinois, 48-51; instr, IOWA, 51-53, asst. prof, 53-58, assoc. prof, 58-, PROF, 62- Consult, U.S. Cmn. Civil Rights, 61-66; consult-exam, N. Cent. Asn. Cols. & Sec. Schs, 63- Nat. assoc. dir, Citizenship Clearing House, 59-60; mem, Iowa Cmt. Human Rights, 62-64. U.S.N, 43-46, Lt. Polit. Sci. Asn. Political parties; the presidency; pressure groups. Publ: Co-auth, National party platforms, Republican party and Wendell Willkie & Dynamics of the American presidency, Wiley, 64. Address: Dept. of Political Science, University of Iowa, Iowa City, Iowa 52240.

JOHNSON, PROF. DONALD M(cEWEN), b. Ogdensburg, N.Y, June 8, 09; m. 41; c. 2. PSYCHOLOGY. A.B, Columbia, 36, Ph.D.(psychol), 39. Instr. PSYCHOL, Long Island, 37-39; asst. prof, Ft. Hays Kans. State Col, 39-43; Illinois, 43-47; head dept, Duluth Br, Minnesota, 47-49; PROF, MICH. STATE, 49- Chief psychol. exam, Camp Dodge Induction Sta, U.S. Army, 42, personnel technician, personnel res. sect, 43. Fel. Psychol. Asn. Problem solving; classroom processes. Publ: Essentials of psychology; Psychology of thought and judgment; Psychology: a problem-solving approach. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

JOHNSON, PROF. DONALD R, b. Chicago, Ill, Nov. 30, 23; m. 50; c. 3. RISK & INSURANCE. A.B, Wheaton Col.(Ill), 48; M.A, Nebraska, 49; Huebner Found. Ins. Ed. fel, Pennsylvania, 53-56, Ph.D.(risk & ins), 59. Investment analyst, trust dept, Harris Trust & Savings Bank, Ill, 49-51; treas, Huntington Col, 51-53; PROF. FINANCE & INS, MIAMI (FLA), 56- U.S.A, 43-45. Risk & Ins. Asn; Soc. Ins. Mgt. Business life insurance. Publ: Savings bank life insurance, 63 & contrib, Handbook of life and health insurance, 64, Irwin. Address: Dept. of Finance and Insurance, University of Miami, Coral Gables, Fla. 33146.

JOHNSON, DR. DUANE M(ORTON), b. Duluth, Minn, Feb. 7, 26; m. 60. INDUSTRIAL PSYCHOLOGY. B.A, Minnesota, 50; M.S, Purdue, 51, Purdue Res. Found. fel. & Ph.D.(indust. psychol), 57. Proj. dir. personnel res, U.S. NAVAL PERSONNEL RES. ACTIVITY, 57-60, head qual. & classification res. br, occup. res, 60-61, DIR. NEW DEVELOPS. RES. DEPT, PERSONNEL RES, 61- U.S.A, 44-46; U.S.A.F, 50-55, 1st Lt. Psychol. Asn. Personnel cost-performance effectiveness determination; technological forecasting; personnel system simulation; personnel requirements of new and developmental navy weapons and support systems. Address: 5850 Soledad Mountain Rd, La Jolla, Calif. 92037.

JOHNSON, PROF. EARL S(HEPARD), b. Stratford, Iowa, Sept. 14, 94; m. 23. SOCIOLOGY. A.B, Baker, 18; fel, Chicago, 31-32, A.M, 32, Ph.D, 41. Instr. sociol, CHICAGO, 32-35, asst. prof, 35-41, SOCIAL SCI, 41-44, assoc. prof, 44-52, prof, 52-59, EMER. PROF, 59-; VIS. PROF. SOC. & PHILOS. FOUND. OF ED, WISCONSIN, MILWAUKEE, 59- Res. assoc, Coop. Study in Gen. Ed, 39-40; chmn, Cmt. on Divisional M.A. Degree Prog, Chicago, 47-59; exam, N.Cent. Asn, 64-; summers, vis. prof, Michigan, 54, 56; Northwestern, 55, 57. Adv. to Chancellor, Puerto Rico, 44; consult, Ford Found, 54; Indust. Col. Armed Forces, 59; Off. County Supt. Schs, Los Angeles County, 61-; mem. bd. adv, Coun. Study Mankind, 63-; Adv, World Law Fund, 63- Mem, Nat. Coun. Soc. Studies. U.S.A.A.F, 17-19, 2nd Lt. Sociol. Asn. General education in social studies; urban community and teaching of social studies. Publ: Theory and practice of the social studies. Address: Division of Social Sciences, University of Wisconsin, 3203 N. Downer, Milwaukee, Wis. 53201.

JOHNSON, DR. E(DGAR) A(UGUSTUS) J(EROME), b. Orion, Ill, Jan. 21, 00; m. 22; c. 1. ECONOMIC HISTORY. B.S, Illinois, 22; A.M, Harvard, 24, Ph.D, 29. Instr. econ, Oklahoma, 22-23, asst. prof, 24-26; instr, Harvard, 26-29; assoc. prof, George Washington, 30-31; asst. prof, Cornell, 31-37; assoc. prof. econ. hist, N.Y. Univ, 37-40, prof, 40-43; vis. prof. econ, Maryland & Pennsylvania, 55-56; PROF. ECON. HIST, SCH. ADV. INT. STUDIES, HOPKINS, 56- Fel, Soc. Sci. Res. Coun, Eng, 29-30; summer, vis. prof, California, 51. Consult. to v.pres, Gen. Motors, 40-41; Nat. Coun. Appl. Econ. Res, New Delhi, India, 64-65; U.S. Agency Int. Develop. Mission to India, 67. Hon. officer, Order of the Brit. Empire, 45; cross of King Haakon, Norway, 45. U.S.A, 22-37, 43-46, Lt. Col. Econ. Hist. Asn.(pres, 60-62; ed, J. Econ. Hist, 40-43). History of economic thought; investigations into seventeenth and eighteenth-century American and British economic ideas; inter-relations of economic thought and public policy in early nineteenth-century America. Publ: Predecessors of Adam Smith; American economy, its origins, development and transformation; Market towns and spatial development in India, Nat. Coun. Appl. Econ. Res, New Delhi, 65. Address: Johns Hopkins University School of Advanced International Studies, Washington, D.C. 20036.

JOHNSON, PROF. EDWARD E(LEMUEL), b. Jamaica, B.W.I, July 25, 26; nat; m. 55; c. 4. EXPERIMENTAL PSYCHOLOGY. B.S, Howard, 47, M.S, 48; Ph.D.(psychol), Colorado, 52. Asst. prof. PSYCHOL, Bishop Col, 53-54; assoc. prof, Grambling Col, 54-55; SOUTHERN UNIV, 55-60, PROF. & HEAD DEPT, 60-, DIR, HEAD START REGIONAL EVAL. & RES. LAB, 66- Specialist psychol, Ft. Dix, N.Y. & Pittsburgh & Phila, Pa, 51-52, res. psychologist, Army Med. Res. Lab, Ft. Knox, Ky, 52-53. Consult, Collab. Child Develop. Prog, 63-; voc. consult, U.S. Off. Health, Ed. & Welfare, 65-Med.Serv.C, 51-53, Res, 53-, 1st Lt. Fel. AAAS; Psychol. Asn; Ed. Res. Asn. Learning; social interaction. Publ: Role of motivational strength in latent learning, J. Comp. & Physiol. Psychol; Sex difference in levels of aspiration and in self-estimates of performance in a classroom situation, J. Psychol; Survey of tank crew problems, Army Med. Res. Lab. Report. Address: P.O. Box 9884, Southern University, Baton Rouge, La. 70813.

JOHNSON, DR. EDWARD STOKES, b. Chapel Hill, N.C, Mar. 1, 33; m. 58; c. 3. PSYCHOMETRICS. B.A, North Carolina, 55, M.A, 58, Ph.D.(psychol), 62. Asst. prof. PSYCHOL, Yale, 62-66; ASSOC. PROF, NORTH CAROLINA, CHAPEL HILL, 66- Psychomet. Soc; Psychol. Asn. Information processing; problem solving; computer simulation; thinking. Publ: An IBM 1620 program for administering a problem solving task to individual subjects, Tech. Report 11, 66 & Can a computer adequately administer a complex problem solving task to individual human subjects?, Tech. Report 12, 66, Yale Univ. Dept. Psychol; The computer as experimenter, Behav. Sci, 67. Address: Psychometric Lab, University of North Carolina, Chapel Hill, N.C. 27514.

JOHNSON, DR. E(DWIN) C(HARLES), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

JOHNSON, DR. ELDON L(EE), b. Putnam Co, Ind, Nov. 5, 08; m; c. 2. POLITICAL SCIENCE. A.B, Ind. State, 29; Ph.M, Wisconsin, 33, fel, 37-38, Ph.D.(polit. sci), 39; London Sch. Econ, 51; hon. LL.D, Rhode Island, 59, Maine, 61, Dartmouth Col, 63, New Hampshire, 64; L.H.D, West. New Eng. Col, 60; hon. prof, San Marcos, Peru, 59. Orgn. & mgt. analyst, off. personnel, U.S. Dept. Agr, 38-40, adminstr, grad. sch, 40-41, dir, 41-45; prof. polit. sci. & head dept, Oregon, 45-47, acting dir. summer session, 46, dean col. lib. arts & grad. sch, 47-55; pres, New Hampshire, 55-62; Great Lakes Cols. Asn, 62-66; V.PRES, ILLINOIS, URBANA, 66- Acad. dir, premeteorol. training progs, U.S. Air Force, 43-44. Consult, Ford Found. & Ed. World Affairs in Africa, 65- Ed, Personnel Admin, 42-43; ed. consult, Int. Coop. Admin, B.W.I, 61. Adv, Ore. Little Hoover Cmn, 50; mem, provisional coun,

Univ. Nigeria, 59-62, Univ. Malawi, 65-; chmn, U.S-Brit-African Ed. Surv. of Nyasaland, 63-64; mem, overseas liaison cmt, Am. Coun. Ed, 64-; coun, Univ. Col, Nairobi, Kenya, 66- Meiklejohn Acad. Freedom award, 58. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; education. Publ: Co-auth, Study of comparative government, Appleton, 49 & Higher education: some newer developments, McGraw, 65. Address: 377 Administration Bldg, University of Illinois, Urbana, Ill. 61801.

JOHNSON, ELIZABETH S(ANDS), Econ, see 10th ed, Soc. & Behav. Vols. Latest known address: 1350 Ingraham St. N.W, Washington, D.C. 20011.

JOHNSON, DR. ELIZABETH ZALESKY, b. New York, N.Y, Aug. 5, 09; m. 36; c. 1. CLINICAL PSYCHOLOGY. A.B, Bryn Mawr Col, 30; Ed.M, Harvard, 48, Ed.D, 51. Instr. psychol. & eng. & asst. dean, Mills Col, 48-51; res. psychologist, Wayne County Training Sch, 51-52; asst. res. prof. psychiat, med. sch, Utah, 52-53; clin. psychologist, Vet. Admin. Hosp, Lexington, Ky, 53-61; consult. psychologist, ment. health center, State Dept. Ment. Health, Ky, 62-64; Patton State Hosp, Calif, 64-67; RETIRED. Lectr, Episcopal Theol. Sem, 57-61; lectr, Transylvania Col, 62; summer lectr, Kentucky, 57-61. Consult. psychologist, Ment. Health Clin, Ky, 53-64; private practice, 58-62. Dipl, Am. Bd. Exam. Prfnl. Psychol, 56. Fel. AAAS; fel. Psychol. Asn; fel. Soc. Proj. Tech. & Personality Assessment; fel. Asn. Ment. Deficiency; Orthopsychiat. Asn; Acad. Psychother; Int. Coun. Psychol. Depth psychotherapy with adults and children; personality evaluation and psychodiagnostic testing; accessability to therapy and new theoretical formulations. Publ: Quantum theory and psychotherapy; Clinical use of raven progressive matrices to appraise potential for progress in plan theory, Am. J. Orthopsychiat; Problem children of school and home. Address: 193 W. Carriage Dr, Chagrin Falls, Ohio 44022.

JOHNSON, DR. ELLIS LANE, b. Athens, Ga, July 26, 38; m. 62. OPERATIONS RESEARCH. B.S, Ga. Tech, 60; M.A, California, Berkeley, 62, Ph.D. (eng. sci), 65. ASST. PROF. OPERS. RES, YALE, 64- Yale jr. faculty fel, Swiss Fed. Inst. Tech, 67-68. Opers. Res. Soc. Am; Inst. Mgt. Sci; Am. Math. Asn. Deterministic and probabilistic discrete optimization. Publ: Networks and basic solutions, Opers. Res, 66; Optimality and computation of (δ, S) policies in the multi-item infinite horizon inventory problem, Mgt. Sci, 67; Computation and structure of optimal reset policies, J. Am. Statist. Asn, 67. Address: Kirtland Hall, Yale University, New Haven, Conn. 06520.

JOHNSON, PROF. ELMER HUBERT, b. Racine, Wis, Apr. 10, 17; m. 43; c. 2. SOCIOLOGY. A.B, Wisconsin, 46, A.M, 48, Ph.D, 50. From asst. prof. to prof. sociol, N.C. State, 49-66; PROF. SOCIOL. & ASST. DIR. CENTER STUDY CRIME, DELINQUENCY & CORRECTIONS, SOUTHERN ILLINOIS, 66- Asst. dir, State Prison Dept, N.C, 58-60. Consult, State Dept. Pub. Welfare, 51-52; State Prison Dept. & Bd. of Paroles, 56-57. Mem. bd. dirs, Joint Cmn. Correctional Manpower & Training, Wash, D.C, 66- U.S.A.F, 41-46, Res, 46-, Col. Sociol. Asn; Statist. Asn; Pop. Asn; Int. Soc. Criminol. Criminology; demography; industrial sociology; Publ: Crime, correction and society, Dorsey, 64 & 68; co-auth, Self-mutilations in prison: interaction of stress and social structure, Nat. Inst. Ment. Health, 67; auth, Sociological interpretation of police reaction and responsibility to civil disobedience, J. Criminal Law, Criminol & Police Sci. Address: Center for Study of Crime, Delinquency & Corrections, Southern Illinois University, Carbondale, Ill. 62901.

JOHNSON, PROF. ERNEST LANE, b. Elk Park, N.C, Sept. 27, 31; m. 59; c. 2. PSYCHOLOGY. B.S, Appalachian State, 53, M.A, 58; Ed.D.(couns. psychol), Indiana, 61. Teacher, county schs, N.C, 56-58; assoc. prof. PSYCHOL, Catawba Col, 61-63; PROF, MISS. STATE COL. WOMEN, 63- Nat. Sci. Found. res. fel, 65- Sig.C, U.S.A, 54-56. Descriptive and evaluative studies of existentialism and its effects on counseling and psychotherapy; human learning and transfer of training involving non-verbal stimuli eliciting both verbal and motor responses. Publ: Existential trends toward individual psychology, J. Individual Psychol, 66; Existentialism, self theory and the existential self, Personnel & Guid. J, 67. Address: Dept. of Psychology, Mississippi State College for Women, Columbus, Miss. 39701.

JOHNSON, DR. ERWIN H(ENRY), b. Chicago, Ill, Aug. 23, 28; m. 56; c. 4. ANTHROPOLOGY. B.A, Roosevelt, 52; Ph.D, Columbia, 61. Guest res. assoc. anthrop, sch. med, Nagoya, 56-58; instr, Rhode Island, 58-59, asst. prof, 59-62; ASSOC. PROF. ANTHROP, STATE UNIV. N.Y. BUFFALO, 62- U.S.A, 46-48. Anthrop. Asn; Ethnol. Soc; Asn. Asian Studies. Japanese cultural history; determinants of functional and historical social structure; contemporary Japanese community structure. Address: Dept. of Anthropology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

JOHNSON, PROF. ESTELLA SCOTT, b. Harrisburg, Pa, July 17, 10; m. 45. SOCIOLOGY, ANTHROPOLOGY. B.S, Cheyney State Col, 34; M.S, Pennsylvania, 36, Julius Rosenwald fel, 41-42; Gen. Ed. fel, Chicago, summer 43. Teacher, pub. schs, Pa, 28-30; res. asst. sociol, admin. asst, teacher & head resident, Fisk, 37-42; assoc. prof. ed. & sociol. & admin. asst. to pres, CHEYNEY STATE COL, 43-52, PROF. SOCIOL. & ANTHROP, 57- Consult, U.S. Off. Ed, 65-66. AAAS; Sociol. Asn. Race relations; African studies; social change. Address: Dept. of Social Science, Cheyney State College, Cheyney, Pa. 19319.

JOHNSON, DR. EVA M(AYNE), b. Baltimore, Md, June 22, 11; m. 35. PSYCHOLOGY. A.B, George Washington, 49, M.A, 51, fel, 52-53, Ph.D, 57. Registr, grad. sch, U.S. Dept. Agr, D.C, 34-43; admin. officer, UNRRA, 43-45; instr. PSYCHOL, GEORGE WASHINGTON, 53-54, asst. prof, 54-59, ASSOC. PROF, 59- Pres. bd. dirs, Help for Retarded Children, Inc, Wash, D.C. Psychol. Asn. Behaviorial and intellectual problems of children and adolescents. Publ: Psychological guide of behavior for parents and teenagers, Help for Retarded Children, Inc, 67; Study of psychological findings of one hundred children recovering from purulent meningitis, J. Clin. Psychol. Address: Dept. of Psychology, Room 412 Monroe Hall, George Washington University, Washington, D.C. 20006.

JOHNSON, PROF. EVANS C(OMBS), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JOHNSON, PROF. EVERETT H(ERSCHEL), b. Carmel, Ind, Dec. 1, 03. STATISTICS. A.B, DePauw, 26; A.M, Lehigh, 29; Ph.D.(bus. admin), Mich, 42. Instr, N.Y. Univ, 29; Detroit, 29-39; asst. bur. bus. res, Michigan, 39-40, res. assoc, 40-41; lectr. econ, Minnesota, 41-42; from economist to prin. economist, Off. Price Admin. & War Foods Admin, 42-47; assoc. prof. STATIST, GEORGE WASHINGTON, 47-51, PROF, 51- Statist. Asn; Economet. Soc; Econ. Asn. Business administration; time factor in correlation with reference to certain forecasting problems in business; introduction to business and economic statistics. Address: Dept. of Statistics, George Washington University, Washington, D.C. 20006.

JOHNSON, FRANCIS D, S.J, b. Chicago, Ill, Jan. 8, 23. POLITICAL SCIENCE. A.B, Loyola (Ill), 45, M.A, 51; Ph.L, West Baden Col, 47, S.T.L, 54; Ph.D. (polit. sci), Georgetown, 61. Teacher, high sch, Mich, 47-50; instr. POLIT. SCI, XAVIER (OHIO), 61-67, ASSOC. PROF, 67- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Theology; customary law and the Roman law sources of Francisco Suarez. Publ: America trappista, In: Civilta Cattolica. Address: Xavier University, Cincinnati, Ohio 45207.

JOHNSON, DR. FRANKLYN ARTHUR, b. Rochester, N.Y, Nov. 6, 21; m. 45; c. 3. POLITICAL SCIENCE. B.A, Rutgers, 47; M.A, Harvard, 49, fel. & Ph.D.(govt), 52; Fulbright scholar, London, 51-52; hon. D.H.L, Jacksonville, 61. Asst. prof. govt, Rollins Col, 52-55, assoc. prof, 55-56; prof. govt. & pres, Jacksonville, 56-63; Calif. State Col. Los Angeles, 63-65; dir. Job Corps, Off. Econ. Opportunity, Exec. Off. President, 65-66; PRES. & TRUSTEE, WILLIAM H. DONNER FOUND, 67- Dir, State Citizenship Clearing House, Fla, 54-56; South. Fels. Fund res. grant, 55; Soc. Sci. Res. Coun. fel, 62; lectr, London, 62; Soc. Sci. Found. fel, 65; Mershon Found. fel, 67; lectr, Hunter Col, 67-; adj. prof, City Univ. New York, 68- Consult, Off. Econ. Opportunity, 67- Trustee, Helen Dwight Reid Found, 62-; Inst. Am. Univs, 67- UN Week Chmn, Florida, 56-; mem, Inst. Strategic Studies, Eng, 62; UN Day Chmn, Los Angeles, 63. George Washington honor medal, Freedoms Found, 56. U.S.A, 42-45. Polit. Sci. Asn. British government; international politics; state and local government. Publ: One more hill, Funk, 48; Defence by committee, Oxford, 60; Misuses of the university, Vital Speeches, 65. Address: 8878 Hooes Rd, Lorton, Va. 22079.

JOHNSON, FREDERICK, b. Everett, Mass, Jan. 16, 04; m. 33. ANTHROPOLOGY. B.S, Tufts, 29, hon. Sc.D, 66; Harvard, 29-35. Asst. anthrop, Harvard, 34-36; DIR, R.S. PEABODY FOUND, PHILLIPS ACAD.(MASS), 36- Fel. Anthrop. Asn.(exec. secy, 49-54); Soc. Am. Archaeol.(treas, 41-46, pres, 47); Ethnol. Soc; fel. Am. Geog. Soc; fel. Arctic Inst. N.Am; fel. Am. Acad. Arts & Sci. Archaeology of North America and of Yukon territory, Canada; ethnology of Northeastern North America and South Central America; chronology of Mexican archaeology. Address: R.S. Peabody Foundation, Philips Academy, Andover, Mass. 01810.

JOHNSON, DR. GEORGE H(AROLD), b. Solvay, N.Y, June 17, 20; m. 47; c. 2. PSYCHOLOGY. Ph.D.(psychol), Syracuse, 51. Asst. prof. psychol, New Mexico, 49-52; proj. dir, Am. Insts. Res, 52-55; soc. scientist, Rand Corp, 55-57; human factors scientist, Syst. Develop. Corp, 57-67; DIR. COMMUNICATIONS RES. PROG, AM. INSTS. RES, 67- U.S.A.A.F, 42-46. AAAS; Psychol. Asn; Ed. Res. Asn; Human Factors Soc. System analysis design and training; measurement of ability, aptitude and proficiency; group processes. Address: American Institutes for Research, 8555 16th St, Silver Spring, Md. 20910.

JOHNSON, PROF. G(EORGE) ORVILLE, b. U.S, June 23, 15. EDUCATIONAL PSYCHOLOGY. B.S, Wisconsin, 38; Ed.M, Illinois, 49, Ed.D, 50. Teacher, pub. sch, Wis, 38-42; prin. & psychologist, South. Wis. Colony & Training Sch, 46-47; asst. prof. psychol, col. ed, Illinois, 49-51; assoc. prof. psychol. & dir. spec. ed, Denver, 51-53; assoc. prof. SPEC. ED, Syracuse, 53-57, PROF, 57-67; OHIO STATE, 67- Dir. res. proj, State Dept. Ment. Hyg, N.Y, 53-56. Consult, 50-; Courtland Bd. Coop. Ed. Serv, N.Y, 67- Ed, Except. Children. Mem, Coun. Except. Children. U.S.A.A.F, 42-45. Psychol. Asn; fel. Asn. Ment. Deficiency. Mental retardation; special education. Publ: Education for the slow learners, Prentice-Hall, 63; co-auth, Learning performance of retarded and normal children, Syracuse Univ. & Education for exceptional children and youth, Prentice-Hall, 67. Address: College of Education, Ohio State University, Columbus, Ohio 43210.

JOHNSON, PROF. GLENN LEROY, b. Redwood Falls, Minn, June 23, 18; m. 41; c. 2. AGRICULTURAL ECONOMICS. B.S, Illinois, 42; American Univ, 42; A.M, Mich. State, 43; George Washington, 46; Soc. Sci. Res. Coun. fel, Chicago, 46, Ph.D, 49. Agr. econ. statistician, bur. agr. econ, U.S. Dept. Agr, 46; assoc. prof. farm econ. & assoc. farm economist, Kentucky, 48-52; PROF. AGR. ECON, MICH. STATE, 52- Vis. prof, California, 56; Simon vis. prof, Manchester, England, 59. Consult, Norweg. Agr. Econ. Instn, 55; U.S. Dept. Agr; Tenn. Valley Authority; Int. Coop. Admin; Div. Humanities & Soc. Sci, Rockefeller Found, 65-; Ford Found, 67- Dir, Econ. Develop. Inst, Univ. Nigeria, 63-64; Consortium Study Nigerian Rural Develop, 65- Mem, Int. Conf. Agr. Economists. U.S.N.R, 43-46, Lt. Agr. Econ. Asn; Econo-met. Soc; Can. Agr. Econ. Soc; Agr. Econ. Soc, Brit. Production economics and policy; needed developments in economic theory as applied to farm management; allocative efficiency of agricultural prices as affected by changes in the general level of employment. Publ: Co-auth, Farm management analysis, Wiley, 53; co-ed, Nutritional and economic aspects of feed utilization by dairy cows, 58 & Study of managerial processes of Midwestern farmers, 61, Iowa State Univ. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

JOHNSON, PROF. GRANVILLE B(RADBY), b. Denver, Colo, Sept. 17, 18; m. 44; c. 2. PSYCHOLOGICAL MEASUREMENT. B.A, Denver, 39, M.A, 40; California, Los Angeles, 41; fel, Colorado, 46-47, Ph.D, 49. Instr. psychol, Denver, 46; New Mexico Highlands, 47-48; asst. prof, Ariz. State Col, 48-50; ed. & psychol, Emory, 50-56; assoc. prof. PSYCHOL, Ga. State Col, 56-61, prof, 61-65; assoc. prof, East Carolina, 65-66; PROF, WILMINGTON COL.(N.C), 66- Med.C, 42-46, Lt. Psychol. Asn. Measurement of human motivation and development. Publ: An experimental projective technique for the measurement of racial attitudes and Development of the Anglo attitude toward the Spanish and the Spanish attitude toward the Anglo, J. Ed.

Psychol; Relationship between performance on a language and non-language test of intelligence and degree of bilingualism, J. Genetic Psychol. Address: Dept. of Psychology, Wilmington College, Wilmington, N.C. 28401.

JOHNSON, PROF. GUY B(ENTON), b. Caddo Mills, Tex, Feb. 28, 01; m. 23; c. 2. SOCIOLOGY, ANTHROPOLOGY. A.B, Baylor, 21, M.A, Chicago, 22; Ph.D.(sociol), North Carolina, 27. Instr. sociol, Ohio Wesleyan, 22-23; prof. soc. sci, women's col, Baylor, 23-24; assoc. prof. sociol, NORTH CAROLINA, 27-41, PROF, 41-, SOCIOL. & ANTHROP, 47- Soc. Sci. Res. Coun. fel, 36-37; vis. prof, Rhodes Univ, S.Africa, 59-60. Ed, Social Forces, 61- Fel. AAAS; fel. Anthrop. Asn; Sociol. Asn; fel. African Studies Asn. Race relations; Negro folk culture; desegregation in the South. Publ: John Henry; Folk culture on St. Helena Island; Sociologist looks at racial desegregation in the South, Soc. Forces. Address: Dept. of Sociology, University of North Carolina, Chapel Hill, N.C. 27514.

JOHNSON, DR. G(UY) B(ENTON), JR, b. Burlington, N.C, Aug. 19, 28; m. 51; c. 2. SOCIOLOGY. B.A, North Carolina, 47; M.A, Harvard, 53, Ph.D. (sociol), 54. ASST. PROF. SOCIOL, Womans Col, North Carolina, 55-56; Texas, 56-57; OREGON, 57- U.S.A. Sociol. Asn; Soc. Sci. Study Relig. Sociology of religion; sociological study of values; sociological theory; social stratification. Address: Dept. of Sociology, University of Oregon, Eugene, Ore. 97403.

JOHNSON, PROF. H. WEBSTER, b. Apr. 1, 06; U.S. citizen; m. 42; c. 2. MARKETING. A.B, Michigan, 31, M.B.A, 32; Ph.D.(bus. orgn), Ohio State 41. Teacher, high sch, Ohio, 32-39; asst. mkt, Ohio State, 39-41; asst. prof, The Citadel, 41-42; economist, U.S. Dept. Agr, 42-43; training officer, Vet. Admin, 45-47; asst. prof. mkt, Western Reserve, 47-51; economist, Off. Price Stabilization, 51-52; PROF. MKT, Detroit, 52-57; WAYNE STATE, 57- U.S.A, 43-45. Mkt. Asn, Admin. Mgt. Soc. Management; business research; salesmanship. Publ: How to use a business library, 64 & Creative selling, 66, South-Western Pub: co-auth, Administrative office management, Addison-Wesley, 68. Address: Dept. of Marketing, Wayne State University, Detroit, Mich. 48202.

JOHNSON, DR. HAROLD S(CHOLL), b. Hamburg, N.Y, Nov. 15, 29. POLITICAL SCIENCE. B.A, St. Lawrence, 51; M.A, Syracuse, 57; Ph.D.(polit. sci), Michigan, 63. Instr. POLIT. SCI, Mankato State Col, 58-59, ASST. PROF, 59-61; Wayne State, 63; Mich. State, 63-64; Canisius Col, 64-65; MICH. STATE, 65-67, JUSTIN S. MORRILL COL, 67- Summers, State of N.Y. Dept. Ed. fel. Latin Am. affairs, 64 & Peru, 65. U.S.A.R, 48-58. Polit. Sci. Asn: Acad. Polit. & Soc. Sci: Int. Studies Asn: Acad. Polit. Sci: Soc. Pub. Admin; Soc. Int. Law. International regional organization; political integration; comparative political systems. Publ: Self-determination within the community of nations, Sijthoff, 67. Address: 704-106 Cherry Lane, East Lansing, Mich. 48823.

JOHNSON, PROF. HARRY ALLYEN, b. Norfolk, Va, Nov. 22, 19; m. 53; c. 2. DEVELOPMENTAL & EDUCATIONAL PSYCHOLOGY. B.S, Va. State Col, 42; M.A, Columbia, 48, Ed.D, 52. Supvr. ed, high sch, Va, 46-49; from assoc. prof. to PROF. ED. & DIR. AUDIOVISUAL CENTER, VA. STATE COL, 49- Fulbright lectr. & res. scholar, École Normale Supérieure, Paris, consult. Audio-Visual Center, 58-59; summers, instr, Columbia, 52, vis. prof, Maine, 55, 56 & 59; inst. dir. ed. tech, Statens Tech. Inst, Norway, 67. Communications media adv, Govt. Sierra Leone, W.Africa, 61-63; mem. bd. dirs. & exec. cmt, Dept. Audiovisual Instr, Nat. Ed. Asn. U.S.A, 42-45, Res, 45-, Capt. Psychology of learning; audio-visual methods of instruction; human growth and development. Publ: The double-barrelled effects of television, Phi Delta Kappan; Audiovisual materials in conferences, Ed. Screen; The role of the audiovisual coordinator: his duties and qualifications, Yerke. Address: Dept. of Education, Virginia State College, Petersburg, Va. 23803.

JOHNSON, PROF. HARRY G(ORDON), b. Toronto, Ont, May 26, 23; m. 48; c. 2. ECONOMICS. B.A, Toronto, 43, M.A, 47; B.A, Cambridge, 46, M.A, 51, fel, King's Col, 50-56; M.A, Harvard, 48, Ph.D, 58; M.A, Manchester, 60; hon. LL.D, St. Francis Xavier, 64, Windsor, 65 & Queen's (Ont), 66. Acting prof. econ, St. Francis Xavier (Can), 43-44; instr, Toronto, 46-47; asst. lectr, Cambridge, 49, lectr, 50-56, mem. cmt. mgt, dept. appl. econ, 51-56; prof. econ. theory, Manchester, 56-59; PROF. ECON, CHICAGO, 59-, ed, J. Polit. Econ, 59-66. Vis. prof, Toronto, 52; Northwestern, 55; Stanford, 55; lectr, Singapore, 56; conferee, Merrill Center for Econ, 57. Exam, French Sci. Policy, Orgn. European Coop. Develop, 64. Mem, Rev. Cmt. Balance of Payments Statist, 63-64; ad hoc cmt. basic res. & nat. goals, Nat. Acad. Sci, 64-65; for. adv. bd, Pakistan Inst. Develop. Econ, 66- Am. Econ. Asn; Can. Econ. Asn.(pres, 65-66); Royal Econ. Soc; Econ. Study Soc. International trade theory; monetary theory; economic policy. Publ: The world economy at the crossroads, Clarendon, 65; Economic policies towards less developed countries, Brookings Inst. & Allen & Unwin, 67; Essays in monetary economics, Allen & Unwin & Harvard, 67. Address: Dept. of Economics, University of Chicago, Chicago, Ill. 60637.

JOHNSON, PROF. HARRY L, b. Saltville, Va, Apr. 18, 29; m. 55. ECONOMICS. B.A, Emory & Henry Col, 52; M.A, Virginia, 57, Ph.D.(econ), 59. Assoc. prof. econ, La. Polytech, 59-60; FINANCE, Alabama, 60-61, prof, 61-64; assoc. prof, Texas, 64-66; PROF. & HEAD DEPT, TENNESSEE, 66- U.S.A, 52-54. Econ. Asn; Finance Asn. Pricing policies and monopolistic competition; economic problems in a democratic society; use of monetary policy to accomplish objectives of a planned economy. Publ: Excise tax rate reductions: a stimulant to economic growth, Nat. Tax J, 6/65; The cost of capital: some empirical observations, West. Econ. J, 3/68; Deposits, reserves and bank earnings, Bankers Mag, summer 68. Address: Dept. of Finance, College of Business, University of Tennessee, Knoxville, Tenn. 37916.

JOHNSON, PROF. HARRY M(ORTON), b. Cambridge, Mass, Oct. 25, 17; div. SOCIOLOGY. A.B, Harvard, 39, A.M, 42, Ph.D, 49; Tulane, 40-41. From instr. to PROF. SOCIOL, Simmons Col, 42-63; ILLINOIS, URBANA, 63- From asst. prof. to assoc. prof, Mass. Col. Art, 46-56. Sociol. Asn. Sociological theory; minority problems. Publ: Sociology: a systematic introduction, Harcourt, 60. Address: 1603 Valley Rd, A-2, Champaign, Ill. 61820.

JOHNSON, DR. HARRY W(ALTER), b. Milwaukee, Wis, May 11, 18; m. 46; c. 3. PSYCHOLOGY. B.A, Oberlin Col, 40; M.A, Chicago, 42, Ph.D.(ed. psychol), 51. Asst. prof. psychol. & dir. reading & study skills clin, Minnesota, 48-52; asst. prof. psychol. & sch. psychologist, campus elem. sch, Wis. State Col, 52-55; asst. prof. ed. & head dept. reading improv, Omaha, 55-63; teacher, Jefferson Elem. Sch, Pullman, Wash, 63-66; RES. ASSOC, OFF. SUPT. PUB. INSTR, 66- U.S.A, 44-46. Psychol. Asn; Ed. Res. Asn. Reading, psychology and teaching; tests and evaluation; guidance of learning. Publ: Single procedure for the development of sight vocabulary, meaning vocabulary or foreign vocabulary & Another study method, summer 64, J. Develop. Reading; co-auth, Elements of spelling ability, Elem. Sch. J, 3/63. Address: Office of the Superintendent of Public Instruction, P.O. Box 527, Olympia, Wash. 98501.

JOHNSON, PROF. HILDEGARD BINDER, b. Berlin, Germany, Aug. 20, 08; nat; wid; c. 2. GEOGRAPHY. Rostock, 28; Marburg, 29; Innsbruck, 30; Ph.D, Berlin, 34. Asst, pub. high sch. for girls, Eng, 34-35; asst. instr, Mills Col, 35-36; Soc. Sci. Res. Coun. grants, 40-41, 46-47; from asst. prof. to PROF. & HEAD DEPT, MACALESTER COL, 47- Summers, vis. prof, Georgia, 60, California, Berkeley, 62, Minnesota, 65, Washington (Seattle), 66. Asn. Am. Geog.(award, 58); Am. Geog. Soc; Soc. Women Geog; Coun. Geog. Ed; African Studies Asn. Historical geography; German immigration to the United States; conservation; Africa. Publ: Carta Marina, Univ. Minnesota, 63. Address: Dept. of Geography, Macalester College, St. Paul, Minn. 55101.

JOHNSON, DR. HOMER H, b. Chicago, Ill, Sept. 6, 35. PSYCHOLOGY. A.B, Knox Col, 57; M.S, Wisconsin, 59; M.A, Illinois, 63, Ph.D.(psychol), 64. ASST. PROF. PSYCHOL, LOYOLA (ILL), 64- U.S.A, 59-61. AAAS; Psychol. Asn. Attitude organization and change; group dynamics. Publ: Co-auth, Effort and subjective probability, J. Personality & Soc. Psychol, 65; auth, Some effects of discrepancy level, Sociometry, 66; co-auth, Group versus individual performance, J. Exp. & Soc. Psychol, 67. Address: Dept. of Psychology, Loyola University, 6525 N. Sheridan Rd, Chicago, Ill. 60626.

JOHNSON, PRES. HOWARD W(ESLEY), b. Chicago, Ill, July 2, 22; m. 50; c. 3. ECONOMICS, INDUSTRIAL RELATIONS. A.B, Cent. Col, 43; M.A, Chicago, 47; hon. LL.D, Harvard, 66, Miami (Fla), 67; hon. L.H.D, Northeastern, 66; hon. Sc.D, Tufts, 67, Lowell Tech. Inst, 67, Bryant Col, 67. Dir. mgt. projs, Chicago, 48-55, asst. prof. indust. rels, 52-55; assoc. prof. indust. mgt. & dir. exec. develop. progs, MASS. INST. TECH, 55-59, prof. & dean Sloan Sch. Mgt, 59-66, PRES. 66- Exec. v.pres, Federated Dept. Stores, 66. Mem. bd. dirs, Fed. Reserve Bank of Boston, 66-; President's Adv. Cmt. Labor-Mgt. Policy, 66-; trustee, WGBH Ed. Found, 66-; bd. adv, Indust. Col. Armed Forces, 67-; joint cmt. ed. & bus, Am. Coun. Ed, 67-; Mass. Housing Finance Agency, 67-; Nat. Manpower Adv. Cmt, 67-; Pop. Crisis Cmt, 67; incorporator, Neurosci. Res. Found, 67- U.S.A, 43-46. Fel. AAAS; Econ. Asn; Indust. Rels. Res. Asn; fel. Am. Acad. Arts & Sci. Address: Massachusetts Institute of Technology, Cambridge, Mass. 02139.

JOHNSON, DR. JACK T(HOMAS), b. Burlington, Iowa, July 16, 15; m. 38. POLITICAL SCIENCE. A.B, Iowa, 35, A.M, 36, Ph.D, 38. Asst. instr. polit. sci, Iowa, 38-40, instr, 40-42, asst. prof, 43-46, assoc. prof, 47-51; asst. adminstr, Fed. Civil Defense Admin, D.C, 51-53; provost, Hofstra Col, 53-62; vis. prof. polit. sci, Western New Mexico, 62-63; assoc. prof, Indiana State, 64-65; assoc. dir. ed, inst. higher ed, Teachers Col, Columbia, 65-67; ASSOC. DEAN LIBERAL ARTS, INDIANA STATE, 68- Rockefeller fel, 44. U.S.N, 43-45. Publ: Biography of Peter A. Dey; Railroad to the sea. Address: Dept. of Political Science, Indiana State University, Terre Haute, Ind. 47809.

JOHNSON, PROF. JAMES MYRON, b. Sauk Center, Minn, Aug. 4, 27; m. 50; c. 6. PSYCHOLOGY. A.B, Minnesota, 48; M.A, Clark, 50; Ph.D, Columbia, 58. Intern PSYCHOL, Clark, 48-49; counsr, Stevens Inst. Tech, 49-53, asst. dir, 53-56; mgt. placement counsr, Lever Bros. Co, N.Y, 56-64; dep. dir. LAB. PSYCHOL. STUDIES, STEVENS INST. TECH, 64-67, DIR, 67-, PROF. PSYCHOL, 66- U.S.N, 45-46. AAAS; Psychol. Asn. Management development; empathy in management and sales selection. Address: Lab. of Psychological Studies, Stevens Institute of Technology, Hoboken, N.J. 07030.

JOHNSON, PROF. JAMES T(URLEY), b. Columbia, La, Feb. 25, 13; m. 37; c. 2. ACCOUNTING. B.A, La. Polytech, 34; fel, La. State, 34-35; M.S, 35, Ph.D, 58. Instr. & head commerce, La. State Col, 35-43; PROF. ACCT, Southwestern Louisiana, 46-48; LA. POLYTECH, 48- U.S.N.R, 43-46, Lt.(jg). Am. Acct. Asn. Auditing and cost accounting. Publ: Co-auth, Readings in auditing. Address: Dept. of Accounting, Louisiana Polytechnic Institute, Ruston, La. 71270.

JOHNSON, DR. JERAH, Intellectual Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JOHNSON, PROF. JEROME D, b. McHenry, N.Dak, June 11, 30; m. 54; c. 3. ECONOMICS. B.A, St. Olaf Col, 56; B.S, Mankato State Col, 62, M.S, 63; Missouri, Columbia, 65-66, summers, 64-67. Teacher, high sch, Minn, 62-63; instr. ECON, N.Dak. State Sch. Sci, 63-65; asst, Missouri, Columbia, 65-66; ASST. PROF, WIS. STATE, EAU CLAIRE, 66- U.S.A, 51-52. Econ. Asn. Industrial organization; principles of economics. Address: Dept. of Economics, Wisconsin State University, Eau Claire, Wis. 54701.

JOHNSON, JEROME RICHARD, Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JOHNSON, PROF. JESSE B(UTLER), b. Hilda, Mo, Sept. 16, 98; m. 22; c. 1. POLITICAL SCIENCE. B.S, Southwest Mo. State Col, 23; M.A, Peabody Col, 29, fel, Yale, 30-31, Ph.D, 33. Asst, Southwest Mo. State Col, 21-23; instr. & athletics coach, Ogden Col, 23-27; N.Mex. Sch. Mines, 27-30; supt. schs, Old Lyme, Conn, 30-35; from instr. to prof. soc. sci. & chmn. dept, Cent. Conn. State Col, 35-66. Asst, Yale, 31-32, lectr, 32-33, 50. Mem, Nat. Coun. Soc. Studies. U.S.A, 18. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Address: 474 S. Main St, West Hartford, Conn. 06110.

JOHNSON, DR. JOE DAVID, b. Houston, Tex, Apr. 7, 27; m. 45; c. 3. COUNSELING PSYCHOLOGY. B.S, N.Tex. State Teachers Col, 49; M.E, Northwest. State Col, 60; Ph.D.(indust. psychol), Baylor, 64. Minister, South. Baptist Convention, 45-61; instr. psychol, BAYLOR, 63-64, assoc. prof, 64-67, DIR. COUNSELING CENTER, 67- Summer vis. prof, Ft. Lewis Col, 64 & Cent. Wash. State Col, 66. Consult, bd. hearing & appeals, Soc. Security Admin, 64-67. U.S.N, 44-45. Psychol. Asn; Personnel & Guid. Asn. Student personnel in higher education; counseling; executive development. Address: University Counseling Center, Baylor University, Waco, Tex. 76703.

JOHNSON, DR. JOHN I(RWIN), JR, Neurophysiol, see 11th ed, Phys. & Biol. Vols.

JOHNSON, DR. JOHN L, b. Mich, Jan. 17, 12; m. 51; c. 5. ECONOMICS. B.A, Mich. State, 49; Ph.D, Kentucky, 54. Asst. bur. bus. res, Kentucky, 49-51, res. assoc, 51-54, asst. prof. econ, 54-58, acting dir, 56-58; prof. econ, FERRIS STATE COL, 58-59, asst. dean, 59-65, DIR. ADMIN. STUDIES, 65- U.S.N.R, 43-45. Econ. Asn; Asn. Instnl. Res. Public finance; income analysis; labor relations; manpower needs and projections. Publ: Per capita income of Kentucky counties in 1952; Economy of northern Kentucky; Income in Kentucky. Address: 113 Madison, Big Rapids, Mich. 49307.

JOHNSON, PROF. JOHN REUBEN, Am. Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JOHNSON, DR. JOSEPH E(SREY), b. Longdale, Va, Apr. 30, 06; m. 30; c. 2. INTERNATIONAL RELATIONS. B.S, Harvard, 27, A.M, 32, Ph.D, 43; LL.D, Williams Col, 51, Bowdoin Col, 67. Instr. hist, Williams Col, 36-38, asst. prof, 39-42, prof, 47-50; PRES, CARNEGIE ENDOWMENT INT. PEACE, 50- Act. chief. div. int. security affairs, U.S. Dept. State, 44-45, chief, 45-47. Adv, U.S. del, Dumbarton Oaks Conf, 44, Gen. Assembly, UN, London & New York, 46; Inter-Am. Conf. Probs. War & Peace, Mex, 45; expert, U.S. del, UN Conf. Int. Orgn, San Francisco, 45; adv, U.S. rep, UN Security Coun, 46; dep. U.S. rep, interim cmt, UN Gen. Assembly, 48. Mem, Coun. For. Rels; adv. cmts. int. orgn. & Near East & S.Asian Affairs, U.S. Dept. State. Soc. Int. Law; Hist. Asn; Int. Studies Asn; Inst. Strategic Studies (v.pres). International relations, especially the United Nations and United States foreign policy. Address: Carnegie Endowment for International Peace, United Nations Plaza at 46th St, New York, N.Y. 10017.

JOHNSON, PROF. JOSEPH K(ELLY), b. Center, Mo, Jan. 8, 97; m. 17; c. 3. SOCIOLOGY. A.B, Texas, 29, M.A, 30; fel, Washington (St. Louis), 34-35, Ph.D.(sociol), 37. Adj. prof. sociol, Texas, 34; instr, State Col. Wash, 35-36; from asst. prof. to prof, E.Tex. State Teachers Col, 36-42; prof. SOCIOL, SOUTHERN ILLINOIS, 47-67, chmn. dept, 47-59, EMER. PROF, 67- Sig.C, 17-19, 42-47, Lt. Col. Sociol. Asn. Social psychology, change and theory. Address: 407 W. 18th St, Apt. 300, Austin, Tex. 78701.

JOHNSON, PROF. J(OSEPH) M(YRON), b. Harrison, Maine, Aug. 31, 17; m. 41; c. 3. AGRICULTURAL ECONOMICS. B.S, Maine, 40, Phi Kappa Phi scholar, 40-41, M.S, 41; Ph.D, Cornell, 55. From assoc. prof. & assoc. agr. economist to PROF. AGR. ECON. & AGR. ECONOMIST, EXP. STA, VA. POLYTECH, 47- Marketing fruits and vegetables; apple processing grades and sampling research; apple harvesting evaluation research. Publ: Marketing southeastern early Irish potatoes; Fruit marketing. Address: Dept. of Agricultural Economics, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

JOHNSON, DR. KEITH B(ARNARD), b. California, Pa, Jan. 5, 33; m. 62; c. 1. BUSINESS ADMINISTRATION & FINANCE. B.S, State Univ. N.Y. Col. Forestry, Syracuse, 55; M.B.A, Washington (St. Louis), 59, D.B.A.(finance), 63. Asst. prof. FINANCE, CONNECTICUT, 63-67, ASSOC. PROF. & HEAD DEPT, 67- Ford Found. summer res. fel. bus. finance, Harvard, 64 & 67. U.S.A, 55-57, Res, 57-59, Sgt. Econ. Asn; Finance Asn. Business financial management; security and investment analysis; financial institutions. Publ: Stock splits and price change, J. Finance, 12/66. Address: Dept. of Finance, University of Connecticut, Storrs, Conn. 06268.

JOHNSON, DR. KEITH W(HITAKER), b. Avant, Okla, Mar. 13, 12; m. 36; c. 1. ECONOMICS. A.B, Kansas, 34; Cornell, 34-35; M.A, Duke, 37, Ph.D, 43. Acting prof. econ. & sociol. & head dept, Doane Col, 38-40; instr, Franklin & Marshall Col, 40-42; asst. economist, construct. div, U.S. Dept. Commerce, 42, economist, 45-47; assoc. economist, War Prod. Bd, 42-43; economist, Combined Raw Materials Bd, 43-45; asst. prof. econ. & bus. admin, New Mexico, 47-48; indust. economist, Fed. Reserve Bank of Dallas, 48-52; anal. statistician, Gen. Serv. Admin, 52-54; ECONOMIST, PAC. GAS & ELEC. CO, SAN FRANCISCO, 54- Consult, Fed. Civil Defense Admin, 53; Bus. Coun, 57- Mem, tech. adv. cmt. indust. develop, San Francisco Bay Area Coun, 62-64; pop. study cmt, Greater San Francisco Chamber Commerce, 66-67; cmt. econ. impact of peace after Vietnam, U.S. Chamber Commerce, Wash, D.C, 67- AAAS; Econ. Asn; Statist. Asn; Asn. Bus. Econ. Public utility economics; economic forecasting. Publ: Co-auth, Fuels for electric generation in Western United States, Nat. Power Surv. Report 18, Fed. Power Cmn, 63; auth, Residential vacancies in wartime United States, Surv. Current Bus; Construction and housing, Hist. Statist. of U.S. Address: 1501 Pine Knoll Dr, Belmont, Calif. 94002.

JOHNSON, DR. KENNETH G, b. Iron Mountain, Mich, July 25, 22; m. 46; c. 3. MASS COMMUNICATION. Ph.B. & M.S, Wisconsin, 47, Ph.D.(mass commun), 61. Reporter, Wis. Rapids Tribune, 47-48; sci. writer, Univ. Wisconsin, 48-49; instr, Mich. State, 49-51; tech. ed, U.S. Forest Serv, 51-52, pub. writer, forest prod. lab, 52-55; instr, exten, Wisconsin, 55-61, asst. prof. JOURNALISM, WISCONSIN, MILWAUKEE, 61-63, ASSOC. PROF, 63- Vis. scholar, Inst. Gen. Semantics, summer, 63. U.S.A.A.F, 43-45, 2nd Lt. Psychol. Asn; Asn. Ed. Journalism; Inst. Gen. Semantics. Mass communication of scientific information; process and effects of mass communication; semantics and psycholinguistics. Publ: General semantics: an outline survey, Univ. Wisconsin Exten, 60; Differential judgments of science news stories and their structural correlates, Gen. Semantics Bull, 60; Dimensions of judgment of science news stories, Journalism Quart, summer 63. Address: Dept. of Journalism, University of Wisconsin, Milwaukee, Wis. 53201.

JOHNSON, DR. KENNETH OWEN, b. St. Paul, Minn, Jan. 26, 20; m. 49. AUDIOLOGY, SPEECH PATHOLOGY. B.A, Macalester Col, 46; M.A, Minnesota, 48; Ph.D.(audiol, speech path. & psychol), Stanford, 52. Instr. communication, Macalester Col, 46-48; dir, audiol. & speech path. clin, Vet. Admin. Hosp, San Francisco, Calif, 51-54; chief audiol. & speech path, Vet. Admin, D.C, 54-56; dir, San Francisco Hearing & Speech Center, 56-58; EXEC. SECY, AM. SPEECH & HEARING ASN, 58- Asst. prof, sch.med, Stanford, 57-58. Consult, Vet. Admin, 56-, nat. consult. speech & lang, Head Start Prog, Off. Econ. Opportunity, 67- Mem, Voc. Rehab. Admin. Res. Fel. Bd, 65- U.S.A.A.F, 42-45, 1st Lt. AAAS; Psychol. Asn; fel. Speech & Hearing Asn; Speech Asn; Int. Asn. Logoped. & Phoniat. Non-organic hearing loss and identification audiometry. Publ: Effect of training on listening, J. Commun; Experimental study of the efficiency of two group hearing tests, Arch. Otolaryngol; Functional deafness, Ann. Otol, Rhinol. & Laryngol. Address: 7303 Broxburn Court, Bethesda, Md. 20034.

JOHNSON, DR. LANE J(OSEPH), b. Minneapolis, Minn, Nov. 17, 30; m. 55. GEOGRAPHY. B.A, Denver, 52; scholar, Clark, 52-53, fels, 53-54, 56-57, M.A, 54, Ph.D, 60. Consult. urban planning, City of Marlboro, Mass, 54; jr. planner, city of Worcester, 57; consult, Town of Sturbridge, 57-58; instr. GEOG, WAYNE STATE, 59-61, asst. prof, 61-67, ASSOC. PROF, 67- Participant, Nat. Sci. Found. Summer Inst. Appln. Quant. Methods in Geog, 62. U.S.A, 54-56, Res, 57-59. AAAS; Am. Geog. Soc; Asn. Am. Geog; Regional Sci. Asn. Philosophy and methodology of geographic research; central place analysis; economic region delimitation. Publ: Some thoughts on geography of the future, Prfnl. Geog, 7/61; Centrality within a metropolis, Econ. Geog, 10/64. Address: Dept. of Geography, Wayne State University, Detroit, Mich. 48202.

JOHNSON, DR. LAVERNE C(LARENCE), b. Blue Springs, Ala, Jan. 7, 25; m. 52; c. 3. PHYSIOLOGICAL PSYCHOLOGY. A.B, Stanford, 49, M.A, 52, Ph.D, 54. Instr. med. psychol, sch. med, Washington (St. Louis), 54-58; asst. prof, 58-60, dir. psychol. serv, Malcolm Bliss Ment. Health Center, 57-60; HEAD PSYCHOPHYSIOL. DIV, U.S. NAVY MED. NEUROPSYCHIAT. RES. UNIT, 60- Lectr. psychol, San Diego State Col, 61- Consult, St. Louis City Hosp, 55-60; Homer G. Phillips Hosp, 58-59; Mo. Baptist Childrens Home, 58-60. Dipl, Am. Bd. Exam. Prfnl. Psychol, 60. U.S.A.F, 43-46, Capt. AAAS; Psychol. Asn; Electroencephalog. Soc; Soc. Psychophysiol. Res.(pres, 68-69); Soc. Psychophysiol. Study Sleep. Electrophysiological variables, especially the relationship between cortical and autonomic activity in clinical and nonclinical subjects; autonomic response patterns during sleep; effect of sleep loss on autonomic activity and performance. Publ: Some attributes of spontaneous autonomic activity, J. Comp. Psysiol. Psychol, 63; co-auth, Racial difference in skin resistance, Science, 63 & The orienting reflex during waking and sleeping, Electroencephalog. & Clin. Neurophysiol, 67. Address: U.S. Navy Medical Neuropsychiatric Research Unit, San Diego, Calif. 92152.

JOHNSON, DR. LAWRENCE B, Exp. Psychol, Opers. Res, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JOHNSON, DR. L(ELAND) L(EROY), b. Shattuck, Okla, Apr. 4, 30; m. 52. ECONOMICS. B.S, Oregon, 52, Standard Oil Co. fel, 52-53, M.A, 53; Sterling fel, Yale, 55-56, Ph.D.(econ), 57. Instr, Yale, 56-57; soc. scientist, Rand Corp, 57-67; DIR. RES. PRESIDENT'S TASK FORCE COMMUN. POLICY, U.S. DEPT. STATE, 67- Lectr, Valley State Col, 58-59; California, Los Angeles, 61-62; Claremont Grad. Sch, 65-66. Consult, Ford Found, 66-67. Econ. Asn. Government regulation of business; economic development. Publ: Co-auth, Behavior of the firm under regulatory constraint, Am. Econ. Rev, 12/62; auth, Joint cost and price discrimination, J. Bus, 1/64; Problems in evaluating Latin American development, Oxford Econ. Papers, 7/67. Address: 5003 Newport Ave, Washington, D.C. 20016.

JOHNSON, PROF. LEWIS K(ERR), b. Staunton, Va, Aug. 4, 04; m. 27; c. 1. COMMERCE. B.S, Virginia, 27, M.S, 28; Ph.D.(bus. orgn), Ohio State, 43. Asst. prof. econ, Mercer, 28-33; COMMERCE, WASHINGTON & LEE, 33-46, assoc. prof, 46-48, PROF. & HEAD DEPT, 48- Lectr, Personnel Asn, Roanoke, Va, 56. U.S.N.R, 43-46, Lt. Comdr. Mkt. Asn; Mgt. Asn. Marketing management; personnel management. Publ: Sales and marketing management; Marketing in Virginia. Address: 32 University Place, Lexington, Va. 24450.

JOHNSON, PROF. LILLIAN M(AY), b. Elkton, Ky, Dec. 30, 07. PSYCHOLOGY. A.B, West. Ky. State Teachers Col, 29; S.M, Chicago, 32, univ. fel, 36-38, Ph.D.(psychol), 38. Asst. prof. psychol, West. Ky. State Teachers Col, 32-36, 38-42; asst. dean women & lectr, CINCINNATI, 46-48, dean women, 48-63, dean students, 63-67, VICE PROVOST STUDENT AFFAIRS, 67-, PROF. PSYCHOL, 63- U.S.N.R, 42-45. Psychol. Asn; Nat. Asn. Women Deans & Counsr.(treas, 57-59, pres, 61-63); Personnel & Guid. Asn. Experimental research in psychology of learning and forgetting. Address: Office of the Vice Provost for Student Affairs, University of Cincinnati, Cincinnati, Ohio 45221.

JOHNSON, DR. LOUISE SNYDER, b. Worcester, Mass, Dec. 31, 04; m. 45. PSYCHOLOGY. A.B, Arizona, 24; M.A, Stanford, 28; California, Los Angeles; Ph.D.(ed. psychol), N.Y. Univ, 33. Counsr, Los Angeles City Col, 33-42, teacher psychol, 38-42, 46-48; psychologist, Psychol. Consult. Center, 48-50; LECTR, univ. col. & sch. ed, Rutgers, 52-56; PSYCHOL, LOS ANGELES HARBOR COL, 57- Psychol. Asn. Personality development; counseling. Publ: Personality and adjustment, McGraw, 53; Inside your mind, Prentice-Hall, 66; Counseling collegians, J. Higher Ed. Address: 420 Margo Ave, Long Beach, Calif. 90814.

JOHNSON, PROF. LUDWELL H, III, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JOHNSON, DR. LYNN ERIC, b. St. Anthony, Idaho, Sept. 8, 32; m. 62; c. 3. PSYCHOLOGY. B.A, Brigham Young, 58; M.A, Utah, 59, Ph.D.(couns. psychol), 62. Asst. prof. couns. psychol, BRIGHAM YOUNG, 61-65, acting dean admissions & records, 65-66, ADMINISTR. & GRAD. COUNSR, 66-, ASST. DEAN ADMISSIONS & RECORDS, 68- Clin. psychologist, Wyo. State Hosp, 67-68. Sig.C, U.S.A, 52-54. Psychol. Asn. Clinical psychology, particularly through use of behavior modification principles; university ad-

mission policies and problems and development of appropriate solutions. Address: Dept. of Psychology, A-183, ASB, Brigham Young University, Provo, Utah 84601.

JOHNSON, DR. LYNWOOD ALBERT, b. Macon, Ga, Oct. 4, 33. INDUSTRIAL ENGINEERING, OPERATIONS RESEARCH. B.I.E, Ga. Inst. Tech, 55, Callaway fel, 57-58, M.S, 59, Ph.D.(indust. eng), 65; Iowa State, 61. Indust. engr, E.I. du Pont de Nemours & Co, 55-57; instr. indust. eng, Ga. Inst. Tech, 58-60, asst. prof, 60-64; supvr. opers. res, Kurt Salmon Assocs, Inc, 64-66; assoc. prof. INDUST. ENG, GA. INST. TECH, 66-68, PROF, 68- Vis. prof, Thayer Sch. Eng, Dartmouth Col, 67. Inst. Indust. Eng; Opers. Res. Soc; Inst. Mgt. Sci. Information-decision systems; systems modeling and simulation; optimization methods; decision theory; engineering design processes; facilities design. Publ: Co-auth, Introduction to linear programming with applications, Prentice-Hall, 66; auth, Some results of the continuous discounting process, J. Indust. Eng, 7-8/62; co-auth, Managing technological change, Textile Indust, 8/67. Address: School of Industrial Engineering, Georgia Institute of Technology, Atlanta, Ga. 30332.

JOHNSON, DEAN MARGARET, b. Lowell, Mass, Nov. 3, 93. SOCIAL SCIENCE. A.B, Western Reserve, 17, M.S, 19, hon. LL.D, 66. Personnel officer, H. Black Co, Ohio, 19-21; exec. secy, City League Women Voters, 21-24; asst. exec. secy, Nat. League Women Voters, 24-27; asst. dean SCH. APPL. SOC. SCIS, WESTERN RESERVE, 27-50, prof. SOC. WORK & dean, 50-58, EMER. PROF. & EMER. DEAN, 58- Address: 1920 Glenridge Rd, Euclid, Ohio 44117.

JOHNSON, PROF. MARJORIE S(EDDON), b. Flourtown, Pa, Nov. 28, 18; m. 44, wid. PSYCHOLOGY. D.Ed.(psychol), Temple, 54. From supvr. lab. sch. to PROF. PSYCHOL. & ASSOC. DIR. READING CLIN, TEMPLE, 48- Consult, Parker sch. dist, Greenville, S.C, 49-53; State Dept. Ed, Md, 50- Psychol. Asn. Psychology and pedagogy of reading; personality and reading. Publ: Readiness for critical reading, Education; Reading disabilities, their diagnosis and treatment, Ed. Record Prov. Que; Study of diagnostic and remedial procedures in a reading clinic laboratory school, J. Ed. Res. Address: 61 Grove Ave, Flourtown, Pa. 19031.

JOHNSON, DR. M(ARTIN) BRUCE, b. St. Paul, Minn, Sept. 11, 33; m. 64. ECONOMICS. B.A, Carleton Col, 55; M.A, Northwestern, 60, Ph.D.(econ), 62. Asst. prof. econ, Washington (Seattle), 62-66, assoc. prof, 66-68; acting dir. inst. econ. res, 67-68; ASSOC. PROF. ECON, CALIFORNIA, SANTA BARBARA, 68- Ford Found. faculty res. fel, 64-65. Am. Econ. Asn; Economet. Soc; Royal Econ. Soc. Economics of time, congestion and uncertainty. Publ: On the economics of road congestion, Econometrica, 64; Travel time and the price of leisure, West. Econ. J, 66; co-auth, Income, wealth and the theory of consumption, In: Value, capital & growth, Edinburgh Univ, 68. Address: Dept. of Economics, University of California, Santa Barbara, Calif. 93106.

JOHNSON, DEAN MAURICE GLEN, b. Pikeville, Ky, Nov. 18, 36; m. 63. POLITICAL SCIENCE. A.B, Georgetown Col, 58; M.A, North Carolina, Chapel Hill, 61, Ph.D.(polit. sci), 66. Instr. POLIT. SCI, Kentucky, 63-64; VASSAR COL, 64-66, ASST. PROF, 66-, ACAD. DEAN FRESHMEN, 68- Polit. Sci. Asn; Int. Peace Res. Asn. Process of nation-building in Western Europe and South Asia. Address: Dept. of Political Science, Vassar College, Poughkeepsie, N.Y. 12601.

JOHNSON, DR. MAX E(DWARDS), Neuropsychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JOHNSON, PROF. MILES, b. Mankato, Minn, Oct. 29, 23; m. 52; c. 2. SOCIOLOGY, JOURNALISM. B.A, Gustavus Adolphus Col, 47; M.A, Minnesota, 51; M.A, Denver, 53; M.A, Iowa, 66. Prof. journalism & sociol, Florence State Col, 53-54; instr. journalism, Memphis State, 54-55; sociol, Tennessee, 55; PROF. sociol, Luther Col, 55-56; soc. work, & Eng, Puget Sound, 56-57; ENG, CALIF. STATE POLYTECH. COL, 57- U.S.A.A.F, 42-45. Sociol. Asn; Soc. Psychical Res; Parapsychol. Asn; Soc. Psychical Res, Brit. Publ: The government secrecy controversy, Vantage, 67; Economic study of suburban weeklies in the Minneapolis area; Study of oversimplified editorializing in the Rocky Mountain News. Address: California State Polytechnic College, San Luis Obispo, Calif. 93401.

JOHNSON, DR. NEAL F, Psychol, see Suppl. IV to 11th ed, Phys. & Biol. Vols.

JOHNSON, PROF. NORMAN LLOYD, Statist, see 11th ed. Phys. & Biol. Vols.

JOHNSON, DR. NORRIS O(LIVER), b. Jamestown, N.Y, Dec. 29, 05; m. 35; c. 2. FINANCE. B.A, Syracuse, 27, M.A, Harvard, 32, Ph.D, 34. Statistician, Fed. Reserve Bank New York, 34-38, chief domestic res. dept, 38-42, mgr. res. dept, 42-46; asst. v.pres, First Nat. City Bank New York, 46-54, v.pres, 54-62, sr. v.pres. & economist, 62-66; prof. ECON, New Col, 66-67; MAINE BANKERS ASN. PROF. ECON, UNIV. MAINE, 67- Adv, Bank of Mex, 38; treas-gen, Iran, 45. Trustee, Syracuse Univ; U.S. Coun, Int. Chamber Commerce. Mem. adv. cmt, Senate Banking & Currency Cmt, 56. Finance Asn; Am. Econ. Asn; Conf. Bus. Econ. Publ: Eurodollars in the new international money market, First Nat. City Bank, 66. Address: Westwinds, Halifax, Vt. 05301.

JOHNSON, PROF. OLE S(IMON), b. Pingree, N.Dak, Aug. 15, 17; m. 44; c. 1. MARKETING, BUSINESS ADMINISTRATION. B.A, Jamestown Col, 40; fel. & M.B.A, Northwestern, 41; Ph.D, Pittsburgh, 51. Mgr. dept, Montgomery Ward & Co, 40-42; dir. sci. equip, State Ed. Agency Surplus Property, N.Dak, 46; asst. prof. mkt. & retailing & bus. mgr, Jamestown Col, 46-49; lectr. mkt, Pittsburgh, 49-51; asst. prof. retailing, Atlanta div, Univ. Georgia, 51-52, assoc. prof. & dir. mkt. div, 52-53; asst. prof, Mich. State, 53-56, assoc. prof. res. mkt, 56-60; prof. & dir. mkt. prog, American Univ, 60-65; DEAN SCH. BUS, OKLAHOMA CITY UNIV, 65- Prof. & tech. adv, sch. bus. admin, Sao Paulo, Brazil, 54-58. Consult, Liller, Neal & Battle, 52-53; Tucker Wayne Adv. Agency , 53-; retailing res. div, Butterick Corp, 59-62; Goodyear Aircraft Co, 61-; Am. Aviation Publications, Inc, 61- Trustee, Fed. Statist. Users Conf, 63-65. U.S.A, 42-46, Sgt. Econ. Asn; Mkt. Asn. (v.pres, 68-69); Int. Soc. Bus. Ed. Retail distribution policy studies; advertising and sales promotion; motivation and consumer buying habits; economic study for location of retail shopping centers; industrial concerns. Publ: The industrial store; Industrial store a cog in merchandising wheel, Daily News Record; Relacoes publicas e a sua funcao vital no comercio, Revista de Ciencias Economicas. Address: 3209 N. Preston Dr, Oklahoma City, Okla. 73122.

JOHNSON, PROF. OLIVER R(AY), Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 66.

JOHNSON, DR. ORVAL GUST, b. Stambaugh, Mich, Aug. 18, 17; m. 47; c. 7. PSYCHOLOGY. A.B, Michigan, 43, M.C.P, 48; Ph.D.(ed. psychol), Wisconsin, 54. Psychologist, Wis. State Reformatory, 48-51; Cent. State Hosp, Wis, 53-54; sch. psychologist, pub. schs, Mich, 54-58; dir. spec. ed. & psychol. serv, Lewis County Schs, Wash, 58-61; from asst. prof. to ASSOC. PROF. PSYCHOL, SOUTHERN ILLINOIS, 61- Res. grant, Nat. Inst. Ment. Health; Off. Econ. Opportunity; Southern Illinois; summer vis. prof, Colorado, Vermont, Mich. State, Idaho State. Consult. exam. bd, Bd. Ed, New York; Am. Asn. Nurse Anesthetists. U.S.A, 43-46. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Intellectual and social development of exceptional children. Publ: Co-auth, Attitude toward authority of delinquent and non-delinquent boys, J. Abnorm. & Soc. Psychol, 11/55 & Psychologists judgment of physical handicap from H-T-P drawings, J. Consult. Psychol, 8/61; auth, Testing the educational and psychological development of exceptional children, Rev. Ed. Res, 2/68. Address: 1820 Maple, Alton, Ill. 62002.

JOHNSON, PROF. PAUL REYNOLD, b. Bozeman, Mont, Feb. 23, 29; m. 52; c. 3. AGRICULTURAL ECONOMICS. A.B, Oberlin Col, 50; Gen. Ed. Bd. fel, Chicago, 52-53, Ph.D.(econ), 59; M.S, N.C. State Col, 53. Asst. prof, agr. econ, Kentucky, 58-63; assoc. prof. ECON, N.C. STATE, 63-65, PROF, 65- Economist, Rand Corp, 67-68. U.S.N, 53-56, Lt.(jg). Econ. Asn; Agr. Econ. Asn. Application of econometric and other quantitative techniques to economic problems in agricultural sector. Publ: Contrib. to J. Farm Econ. Address: Dept. of Economics, North Carolina State University, Raleigh, N.C. 27607.

JOHNSON, DR. PAUL TIMOTHY, b. Bottineau, N.Dak, Mar. 25, 34. GEOGRAPHY. B.A, Iowa, 56, Ph.D, 66. Asst. prof. GEOG, State Univ. N.Y. Col. Oneonta, 63-64; instr, TEMPLE, 65-66, ASST. PROF, 66- U.S.A, 56-58, Res, 53-56 & 58-61. Asn. Am. Geog. Testing location theory using models based on diffusion theory; empirical locations of religious groups. Address: Dept. of Geography, Temple University, Philadelphia, Pa. 19122.

JOHNSON, PROF. PAUL V(ICTOR), b. Elkhart, Ind, July 17, 20; m. 48; c. 1. ECONOMICS. B.S, Purdue, 52, fel, 52-53, M.S, 53; Timken scholar, Western Reserve, 53-55. Instr. ECON, Western Reserve, 55-56; asst. prof, PURDUE, 56-61, ASSOC. PROF, 61- Sig.C, U.S.A, 43-46. Econ. Asn; Indust. Rels. Res. Asn. Labor economics; economic theory; industrial relations; apprenticeship. Publ: Collective bargaining manual; Government regulation of internal union affairs, Labor Law J. Address: Dept. of Economics, Purdue University, West Lafayette, Ind. 47907.

JOHNSON, DR. PEDER JACK, b. Duluth, Minn, Nov. 7, 36; m. 67. EXPERIMENTAL PSYCHOLOGY. B.A, Minnesota, Duluth, 58, M.A, Minneapolis, 60; Nat. Inst. Ment. Health grant, Colorado, 64-65, Ph.D.(psychol), 65. Res. assoc. behav. sci, Colorado, 65-66; ASST. PROF. PSYCHOL, NEW MEXICO, 66- Nat. Inst. Ment. Health res. grants, 66-67, 68- U.S.A.F, 61-62. Psychol. Asn; Psychonomic Soc. Conceptual behavior in adults and children; acquisition of conceptual rules in children. Publ: Relational responding in children, 66, Factors influencing solution shifts, 66 & Nature of mediational responses, 67, J. Exp. Psychol. Address: Dept. of Psychology, University of New Mexico, Albuquerque, N.Mex. 87106.

JOHNSON, DR. RALPH H(AAKON), b. Greenbush, Minn, June 22, 10; m. 36; c. 2. EDUCATIONAL PSYCHOLOGY. B.E, Minn. State Teachers Col.(St. Cloud), 34; M.A, Minnesota, 44, Ph.D.(ed), 55. Teacher, pub. schs, Minn, 36-42, supt, 42-44; psychologist, Vet. Admin, 46-51, chief counseling sect, Vet. Admin. Regional Off, 51-56; DIR. GUID. SERV, MINNEAPOLIS PUB. SCHS, 56- U.S.N.R, 44-46, Lt. Psychol. Asn; Personnel & Guid. Asn.(treas). Educational, vocational and rehabilitation counseling and instructional research. Publ: Minnesota test-norms and expectancy tables; Administrator's guidance handbook; Vocational objectives for the emotional disabled. Address: Minneapolis Public Schools, 807 N.E. Broadway, Minneapolis, Minn. 55413.

JOHNSON, DR. REX M(ARVIN), b. Smithfield, W.Va, Jan. 29, 01; m. 29; c. 1. SOCIOLOGY, POLITICAL SCIENCE. A.B, Muskingum Col, 24; YMCA fel, Ohio State, 24-26, A.M, 26, Ph.D, 33; fel, Minnesota, 31-32; summers, Chicago, 39-40. Asst. govt, Minnesota, 31-32; prof. econ. & sociol, Lake Erie Col, 32-44; dir. res. & exec. secy. groupwork & recreation div, Coun. Soc. Agencies, Rochester, N.Y, 44-56; EXEC. DIR, MENT. HEALTH ASN, DAYTON, 56- Lectr, Hiram Col, 38; instr, Miami (Ohio), 58-; summers, instr, Wittenberg, 58-60. Fel. Sociol. Asn. Urban sociology; administration; community organization; family and marriage. Address: 1531 N. Plum St, Apt. D, Springfield, Ohio 45504.

JOHNSON, PROF. RICHARD ARVID, b. Melby, Minn, Aug. 25, 17; m. 44; c. 2. BUSINESS ADMINISTRATION. B.B.A, Minnesota, 48, M.B.A, 52; D.B.A, Washington (Seattle), 58. Asst. prof. bus. admin, Augustana Col.(S.Dak), 52-53; assoc. prof, Sioux Falls Col, 53-55; WASHINGTON (SEATTLE), 55-65, PROF. OPERS. MGT, GRAD. SCH. BUS. ADMIN, 65-, dir. grad. progs, 64-67. Consult, Boeing Airplane Co, 57-58; Wash. Nat. Gas Co, 59; Flying Tiger Line, Inc, 59-60; Compar Co, 61-, U.S. Air Force Inst. Tech, 66-67. U.S.N.A.F, 43-45. Soc. Adv. Mgt; Acad. Mgt. Use of the systems concept in the management of the business firm. Publ: Co-auth, Cases in manufacturing management, 65 & Theory and management of systems, 2nd ed 67, McGraw; co-auth, Systems theory and management, Mgt. Sci, 64. Address: Graduate School of Business Administration, University of Washington, Seattle, Wash. 98105.

JOHNSON, DR. RICHARD B(ARNEY), b. Lewiston, Pa, Mar. 29, 19; m. 53. POLITICAL SCIENCE. B.A, Lehigh, 41; M.A, Pennsylvania, 42, Ph.D.(polit. sci), 48. Asst. prof. govt, Tufts, 48-51; Maryland, 51-52; ADMIN. ASST, U.S. DEPT. DEFENSE, 53- U.S.A, 43-46. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; comparative government; political theory. Publ: Government seizure and labor disputes; Administrative problems of government seizure in labor disputes, Pub. Admin. Rev. Address: 3903 Calverton Dr, Hyattsville, Md. 20782.

JOHNSON, DR. RICHARD B(UHMANN), b. Galveston, Tex, Aug. 18, 13; m. 40; c. 4. ECONOMICS. B.A, Texas, 34, M.A, 36, Ph.D.(econ), 43. Asst. to comptroller, Am. Nat. Ins. Co, 36-38; from instr. to asst. prof, Arkansas, 38-42; regional bus. consult, U.S. Dept. Commerce, 42; res. economist, Fed. Reserve Bank of Dallas, 42-44, sr. economist, 46-48; prof. econ, SOUTHERN METHODIST, 48-54, PROF. ECON. & FINANCE, 55-, DIR. SOUTHWEST GRAD. SCH. BANKING, 57-, chmn. dept. econ, 55-68. Ford faculty fel, 54-55; dir, Bank of Dallas; Exchange Savings & Loan Asn, Dallas; Southwest. Investors, Inc; Tamar Electronics Industs, Los Angeles; adv. dir, Trinity Nat. Bank. Consult, Am. Tel. & Tel. Co; Air Transport Asn. U.S.N, 44-46, Lt.(jg). Econ. Asn. Monetary and fiscal policy; regional economic development. Publ: Capital budgeting and the allocation of resources, South. Econ. J; Petroleum industry in the Southwest, Monthly Bus. Rev; Corporate retention of earnings and tax policy, South. J. Bus. Address: Dept. of Economics, School of Business Administration, Southern Methodist University, Dallas, Tex. 75222.

JOHNSON, DR. RICHARD M, b. Ft. Wayne, Ind, Oct. 31, 34; m. 57; c. 2. POLITICAL SCIENCE. B.A, Miami (Ohio), 56; M.A, American Univ, 61; Ph.D.(polit. sci), Illinois, 65. ASST. PROF. POLIT. SCI, STATE UNIV. N.Y. BUFFALO, 64- Res. grants, Soc. Sci. Res. Coun, 66-68 & Off. Econ. Opportunity, 67-68. U.S.N, 56-61, Lt. Polit. Sci. Asn. Empirical political theory; poverty and race relations; American judicial processes; processes of legitimation. Publ: Dynamics of compliance, Northwestern Univ, 67; Compliance and Supreme Court decision-making, Univ. Wis. Law. Rev, 66. Address: Dept. of Political Science, State University of New York at Buffalo, Buffalo, N.Y. 14214.

JOHNSON, DR. RICHARD M(ORTON), b. Seattle, Wash, June 5, 34; m. 57; c. 1. PSYCHOLOGY. B.S, Haverford Col, 56; M.S, Washington (Seattle), 58, Ph.D, 59. Staff psychologist, Procter & Gamble Co, 59-66; mkt. res. consult, 66-68; V.PRES, MKT. FACTS, INC, 68- Psychol. Asn; Psychomet. Soc; Statist. Asn. Application of mathematical methods to psychological problems, especially measurement and prediction of behavior; construction and evaluation of psychological tests. Publ: On a theorem stated by Eckart and Young, 9/63 and The minimal transformation to orthonormality, 3/66, Psychometrika. Address: 100 S. Wacker Dr, Chicago, Ill. 60606.

JOHNSON, DR. RICHARD T, b. Milwaukee, Wis, Apr. 1, 34; m. 59; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Carleton Col, 54; M.S, Utah State, 59; Ph.D.(ed. psychol), Minnesota, 63. Chief engr, Lectron Corp. Am, 56-57; res. assoc. ed. res, Minnesota, 60-63; asst. prof. statist. & measurement, Rutgers, 63-65; res. scientist, AM. INSTS. RES, 65-67, SR. RES. SCIENTIST, 67- Lectr, Stanford, 67- Sig.C, U.S.A, 54-56. Statist. Asn; Psychol. Asn; Ed. Res. Asn. Statistical and psychometric methodology; applications of technology in education. Publ: Co-auth, A study of words indicating frequency, J. Ed. Psychol, 59 & The CPI profile of student leaders, Personnel & Guid. J, 62; auth, Understanding the meanings in arithmetic, In: Sixth mental measurements yearbook, 65. Address: American Institutes for Research, P.O. Box 1113, Palo Alto, Calif. 94302.

JOHNSON, DR. RICHARD WILBUR, b. St. Cloud, Minn, July 25, 34; m. 59; c. 3. PSYCHOLOGY. A.B, Princeton, 56; M.A, Minnesota, 59, Ph.D. (psychol), 61. ASST. PROF. PSYCHOL, North Dakota, 61-65; MASSACHUSETTS, AMHERST, 65- Consult, rehab. unit, med. center, North Dakota, 62-65; Vet. Admin. Hosp, 66-; Proj. Cause, summers 64-65. Psychol. Asn. Vocational development; psychological tests and individual differences. Publ: Are SVIB interests correlated with differential academic achievement, 8/65 & co-auth, Use of weighted application blank in selecting unskilled employees, 10/67, J. Appl. Psychol; auth, Effect of financial remuneration and case description on counselor performance, J. Counseling Psychol, 3/68. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01002.

JOHNSON, DR. ROBERT B(ETHUNE), b. St. Louis, Mo, Dec. 4, 20; m. 42; c. 2. GEOGRAPHY, LONG RANGE PLANNING. A.B, Washington (St. Louis), 42; fel, Syracuse, 46-47; fel, Harvard, 47-49, M.A, 49, Ph.D, 60. Field geologist, U.S. Geol. Surv, 42-48; res. geogr, Boston Globe, 49; asst. prof. geog, St. Lawrence, 49-51; asst. oper. anal, hqs. Far East, U.S. Dept. Air Force, Japan, 53-56, hqs. Pac, Hickam Air Force Base, Hawaii, 56-59; chief adv. planning group, Itek Corp, Mass, 58; analyst, tech. mil. planning oper, Gen. Elec. Co, 58-61, consult, 61-63; lectr. geog, California, Santa Barbara, 60-63; DIR, JOHNSON RES. ASSOCS, 63- Instr, Washington (St Louis), 46; expert, off. asst. chief staff, U.S. Dept. Army, 52. Consult, U.S. Dept. Air Force, 53; Stanford Res. Inst, 61- A.U.S, 43-45, 51-52, Capt. Asn. Am. Geog; Geog. Soc; Opers. Res. Soc; Regional Sci. Asn; Acad. Polit. & Soc. Sci; Mil. Opers. Res. Soc. Planning research; political, economic and military geography; geography of circulation; military operations research; systems analysis and long range planning; United States, Eurasian periphery and underdeveloped areas. Publ: Co-auth, Projected world patterns 1965-, (series), McDonnell Douglas Corp, 64-; auth, Tactical warfare and the limited war dilemma, SP 139, 8/61, rev, 7/62 & The use of a geographic-based contextual matrix for military systems studies, SP 181, 9/62, TEMPO, Gen. Elec. Co, Santa Barbara. Address: 4873 La Gama Way, Santa Barbara, Calif. 93105.

JOHNSON, ROBERT E(DWARD), b. Monson, Mass, Mar. 28, 05; m. 28; c. 2. ECONOMICS, STATISTICS. B.A, Clark, 28; M.B.A, N.Y. Univ, 32. Statistician, N.Y. Tel. Co, 28-40; statistician & chief raw mat. sect, U.S. Dept. Navy, 40-41; chief raw mat. div, War Prod. Bd, 41-44, dir. mil. div. & asst. dir. prog. bur, 44-45; dir. off. rev. & anal, Civilian Prod. Bd, 45-46; statistician, Am. Tel. & Tel. Co, 46-48; chief statistician, N.J. Bell Tel. Co, 48-50; asst. economist, West. Elec. Co, 50-52, economist & actuary, 52-67; DEP. PROG. ANAL-MANPOWER UNDER SECY. AIR FORCE, DEPT. AIR FORCE, 67- Dep. expediter, Off. Housing Expediter, 47; lectr, Stevens Inst. Tech, 50-56. Consult. economist & statistician, 50-56. Del, Int. Conf. Input-Output, Geneva, 61; Int. Fedn. Opers. Res. Socs, Norway, 64, Mass. Inst. Tech, 66. Fel. AAAS; Statist. Asn; Econ. Asn; Indust. Rels. Res. Asn; Opers. Res. Soc; Inst. Mgt. Sci; Inst. Mgt; Acad. Polit. & Soc. Sci. Economic and statistical problems of the business firm; statistical problems of defense and of New York City. Publ: Co-auth, Handy guide to elementary formulas; auth, Demands for steel in peace and war & Housing problem, Am. Mil. Engr. Address: 6 Skytop Terr, Upper Montclair, N.J. 07043.

JOHNSON, ROBERT E(DWIN), b. Fairfield, Iowa, Sept. 14, 25; m. 53; c. 2. ECONOMICS. B.A, George Washington, 51, M.A, 52. Res. assoc. & instr, George Washington, 51-53; economist, logistics dept, Rand Corp, 53-56; chmn. dept. combat opers. res. group, Tech. Opers, Inc, 56-60; ECONOMIST. & MGR. PROCUREMENT GROUP, RAND CORP, 60- U.S.A.A.F, 43-46, Res, 46-53, Capt. Econ. Asn; Sci. Res. Soc. Economic analysis and operations research in procurement and contracting; mobility and transportation; foreign aid; ground combat simulation; logistics. Address: 5750 Ramirez Canyon Rd, Malibu, Calif. 90265.

JOHNSON, DR. ROBERT H(ENRY), b. Hannaford, N.Dak, Jan. 23, 21; m. 43; c. 3. POLITICAL SCIENCE. B.A, Concordia Col, 42; Rockefeller fel, Syracuse, 42-43, M.S, 43; Soc. Sci. Res. Coun. fel, Harvard, 47-49, Ph.D.(polit. econ. & govt), 49. Instr. govt, Harvard, 49-51; asst. to exec. secy, Nat. Security Coun, 51-54, mem. spec. staff, 54-59, dir. planning bd. secretariat, 59-61, mem. staff, 61-62; mem. policy planning coun, U.S. Dept. State, 62-67; SR. FEL, BROOKINGS INST, 66- Vis. prof. int. rels, Colgate, 68-69. Rockefeller pub. serv. award, 58. U.S.N.R, 43-46. Polit. Sci. Asn; Asn. Asian Studies. International relations, government and politics of south and southeast Asia; comparative government. Publ: International politics and international organization, the case of UNRRA, World Polit. Address: 3710 30th N, Arlington, Va. 22207.

JOHNSON, DR. ROBERT S, b. Charlotte, N.C, Oct. 7, 33. ECONOMICS. B.A, Stetson, 59; Ph.D.(econ), Virginia, 64. Asst. prof. econ, Virginia, 62-65, assoc. prof, 66-67; ASST. DIR. ED, NAT. ASN. MUTUAL SAVINGS BANKS, 67- U.S.M.C, 54-57, Res, 57-62, Sgt. Econ. Asn. Labor economics and labor markets; money and banking; administration of adult educational programs. Address: National Association of Mutual Savings Banks, 200 Park Ave, New York, N.Y. 10017.

JOHNSON, PROF. ROBERT WILLARD, b. Denver, Colo, Dec. 23, 21; m. 45; c. 2. FINANCE. Miller scholar, Oberlin Col, 39-42; M.B.A, Harvard, 46; Coon Found. fel, Northwestern, 47-48, Ph.D.(finance), 52. Asst. prof. econ, Southwest. at Memphis, 48-50; from lectr. to prof. finance, Buffalo, 50-59; prof. financial admin, grad. sch. bus. admin, Mich. State, 59-64; PROF. INDUST. ADMIN, GRAD. SCH. INDUST. ADMIN, PURDUE, 64- Economist, Fed. Reserve Bd, 56-57; fel, Inst. Basic Math. Appl. to Bus, 59-60; assoc. reporter-economist, Nat. Conf. Cmnrs. Uniform State Laws, 64- Mem. cmt. econ. adv, Nat. Found. Consumer Credit, 62- U.S.N, 43-46, Res, 47-67, Lt. Comdr. Finance Asn; Econ. Asn; Inst. Mgt. Sci. Publ: Methods of stating consumer finance charges; Financial Management. Address: Graduate School of Industrial Administration, Purdue University, Lafayette, Ind. 47907.

JOHNSON, PROF. RONALD C(HARLES), b. Duluth, Minn, July 18, 27; m. 53; c. 3. PSYCHOLOGY. B.A, Minnesota, Duluth, 49; M.A, Denver, 50; Ph.D, Minnesota, 59. Instr. child develop, Minnesota, 56-57; asst. prof. PSYCHOL, San Jose State Col, 57-60, assoc. prof, 60-62; Hawaii, 62-65, COLORADO, 65-66, PROF, 66- Consult, West. Interstate Cmn. Higher Ed, 66- U.S.N.R, 44-46. Psychol. Asn; Soc. Res. Child Develop. Verbal learning; concept formation; personality correlates of child rearing practices; moral judgements. Publ: The science of ourselves; co-auth, Child psychology: behavior and development, Wiley, 65; Word value, word frequency and visual duration threshold, Psychol. Rev. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

JOHNSON, DR. RONALD ENGLE, Psychol, see 10th ed, Soc. & Behav. Vols.

JOHNSON, DR. RONALD S(TAFFORD), b. Boston, Mass, Apr. 12, 23; m. 45; c. 2. BUSINESS ADMINISTRATION. B.S, Calif. Inst. Tech, 44; M.B.A, Michigan, 48, Ph.D.(bus. admin), 55. Instr. statist, sch. bus, Michigan, 47-54; analyst, Ford Div, Ford Motor Co, 54-55, supvr. metrop. area anal, Mercury Div, 55, sales performance anal, 56-57; assoc, Arthur D. Little, Inc, 57-61; consult, 61-62; dir. bus. planning, missiles & space div, Douglas Aircraft Co, 62-67, ASST. TO V.PRES. FINANCE, AIRCRAFT DIV, McDONNELL DOUGLAS CORP, 68- Statist. consult, dist. engr, U.S. Lake Surv, Corps Engrs, 52-53. U.S.N, 42-46, Lt.(jg). Econ. Asn; Mkt. Asn; Statist. Asn. Market analysis; business forecasting; economic theory. Publ: Study of people who have exhausted unemployment benefits in an active labor market; Unemployment compensation during prosperity & What price your ego? when to trade your car, Mich. Bus. Rev. Address: 361 Alma Real Dr, Pacific Palisades, Calif. 90272.

JOHNSON, PROF. ROSSALL J, b. Evanston, Ill, Dec. 31, 18; m. 44; c. 3. PSYCHOLOGY. B.S. Northwestern, 42, M.B.A, 46; fel, Purdue, 53, Ph.D, 54. Prod. foreman, Radio Corp. Am, 46-48; indust. engr, Firecraft Corp, 48-49; asst. prof. indust. mgt, Miss. State Col, 49-51; instr. psychol, Purdue, 51-52; PROF. ORGN. BEHAV. & INDUST. RELS, GRAD. SCH. BUS. ADMIN, NORTHWESTERN, 53- Dir, adv. mgt. prog, Indonesia, 59-61; sr. res. consult, Ford Found, New Delhi, India, 64-65. AAAS; Psychol. Asn; Soc. Adv. Mgt. Personnel administration; social psychology; business administration. Publ: Personnel and industrial relations; Executive decisions, South-Western Pub, 63; co-auth, Business environment in an emerging nation, Northwestern, 66. Address: Graduate School of Business Administration, Northwestern University, Evanston, Ill. 60201.

JOHNSON, DR. ROSWELL H(ILL), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

JOHNSON, PROF. SAMUEL A(UGUSTUS), b. Kansas City, Mo, Aug. 27, 95; m. 20. POLITICAL SCIENCE. A.B, Kansas, 16, A.M, 28; summers, Iowa, 22-24; Ph.D.(hist. polit. sci), Wisconsin, 36. Instr. hist, Kansas, 26-28; assoc. prof. hist. & govt, Kans. State Teachers Col, 28-36; prof, Harris Teachers Col, 36-63; RETIRED. Lectr, St. Louis, 38-49; news analyst, Radio Sta. KMOX, St. Louis, 42-49; lectr, Washington (St. Louis), 42-49; exec. dir, St. Louis Coun. World Affairs, 48-51. U.S.A, 17-19, Sgt. Pre-Civil War decade in American history; world affairs. Publ: Battle cry of freedom; Essentials of comparative government; An interpretation of American history, Barron's Ed. Series, 68. Address: Mountain View Dr, Peterborough, N.H. 03458.

JOHNSON, DR. SHERMAN E(LLSWORTH), b. Scandia, Minn, July 31, 96; m. 25; c. 3. AGRICULTURAL ECONOMICS. B.S, Minnesota, 24, M.S, 26; Ph.D.(agr. econ), Harvard, 38. Instr. farm mgt. & accts, Minnesota, 24-25; asst. agr. economist, La. State, 25-26; from asst. to assoc. agr. economist, Mont. State Col, 26-29; head dept. agr. econ, S.Dak. State Col, 30-33; wheat specialist, Brookings Inst, 33-34; regional dir, Fed. Land Utilization Prog, 34-36; head div. farm mgt. & costs, bur. agr. econ, U.S. Dept. Agr, Wash, D.C, 37-46, asst. chief in charge res. prod. econ, 46-53, dir. farm & land mgt, res, agr. res. serv, 54-57, chief economist, 57-60, dep. adminstr, econ. res. serv, 61-65; ECON. CONSULT, 65- Civilian with War Food Admin. President's award distinguished fed. civilian serv, 63. Am. Econ. Asn; Am. Agr. Econ. Asn.(v.pres, Farm Econ. Asn, 41, pres, 43); Hist. Soc; Int. Asn. Agr. Econ.(pres, Int. Conf. Agr. Econ, 58-61). Technological developments in agriculture. Publ: Managing a farm; Getting started in farming. Address: 118 N. Jackson St, Arlington, Va. 22201.

JOHNSON, DR. STANFORD L, b. Mapleton, Utah, July 31, 24; m. 45; c. 6. MARKETING. B.S, Utah State, 49; M.S, N.Y. Univ, 50, Ph.D.(bus), 65. Asst. prof, Utah State, 51-55; asst. to dean faculty, N.Y. Univ, 55-64; assoc. prof. MKT, SAN FRANCISCO STATE COL, 64-65; CHMN. DEPT, 65- Consult, Busmanco, Inc, 66-, Richard Raymond Assocs, 67- U.S.A.A.F, 43-45, 1st Lt. Behavioral aspects of marketing management and profile analysis of the current status of marketing executives among large-scale corporations. Publ: Changing executive status of the marketing manager, Sales—Mkt. Today, 6/67. Address: Dept. of Marketing, San Francisco State College, 1600 Holloway Ave, San Francisco, Calif. 94132.

JOHNSON, DR. STANLEY W, b. Spokane, Wash, May 17, 28; m. 66. PSYCHOLOGY. B.A, Whitworth Col, 50; M.A, Missouri, 56; Ed.D.(psychol), Nebraska, 62. Psychologist, Rehab. Clin. Kansas City, 56-58; asst. prof. PSYCHOL, Graceland Col, 58-60; ASSOC. PROF, STATE UNIV. N.Y. COL. PLATTSBURGH, 62-, CHMN. DEPT, 68-, dir. instnl. res, 66-68. Psychol. Asn. Changes in student behavior patterns; institutional research; school psychology. Address: Dept. of Psychology, State University of New York College at Plattsburgh, Plattsburgh, N.Y. 12901.

JOHNSON, PROF. STEWART, b. Oconto Falls, Wis, Oct. 27, 14; m. 40; c. 2. AGRICULTURAL ECONOMICS. B.S, Wisconsin, 35; M.S, Vermont, 37; Ph.D.(agr. econ), Cornell, 41. Assoc. agr. economist, Vermont, 37-41; exten. economist, Cornell, 41-45; assoc. prof. AGR. ECON, CONNECTICUT, 45-50, PROF, 50- Consult, N.Y. Milkshed Cmt, 53-54; Gov. Milk Cmt, N.J, 54-56; Cmn. Money & Credit, 59-60; N.Y.-New Eng. Dairy Coop. Coordinating Cmt, 67- Marketing; prices; economic theory. Publ: Co-auth, Federal credit programs, Prentice-Hall, 63; auth, Forecasting the milk supply, Vt. Agr. Exp. Sta. Bull; Some generalizations on efficiency in marketing, based on experience with milk in Great Britain, 1938-52, Proc. Int. Conf. Agr. Econ. Address: R.D. 3, Spring Hill, Storrs, Conn. 06268.

JOHNSON, PROF. T(HOMAS) EARLE, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

JOHNSON, DR. THOMAS F, b. Milwaukee, Wis, July 29, 18; m. 42; c. 1. PSYCHOLOGY. B.A, Wisconsin, 42; M.S, Purdue, 51, Ph.D.(psychol), 53. Clin. psychologist, Vet. Admin. Ment. Hyg. Clinic, 46-50; chief clin. psychologist, Osawatomie State Hosp, Kans, 53-56; asst. dir. PSYCHOL. SERV, EAST. PSYCHIAT. INST, 56-57, DIR, 57-, PSYCHOL. TRAINING, 56- Res. consult, pub. rels. dept, Smith, Kline & French, 67- U.S.A, 43-46. Psychol. Asn. Clinical teaching; personality theory; tests and measurements. Publ: Co-auth, Problem solving by monkeys following pre-frontal labotomy, J. Exp. Psychol; Conceptions of parents held by adolescents, J. Abnorm. & Soc. Psychol. Address: 3 Richie Lane, Yardley, Pa. 19067.

JOHNSON, DR. THOMAS F(RANK), b. Lynchburg, Va, Sept. 27, 20; m. 51; c. 3. ECONOMICS. B.A, Virginia, 43, M.A, 47, Ph.D.(econ), 49. Economist, U.S. Dept. Agr, 49-50; res. economist, U.S. Chamber Commerce, 51-54; asst. cmnr, Fed. Housing Admin, 55-58; DIR. RES, AM. ENTERPRISE ASN, 58- U.S.N.R, 43-46, Lt. Comdr. Econ. Asn; Statist. Asn; Royal Econ. Soc. Housing and real estate; money and banking; public finance. Publ: Small business: its prospects and its problems; co-auth, Renewing American cities and The American competitive enterprise economy. Address: 1113 N. Gaillard St, Alexandria, Va. 22304.

JOHNSON, PROF. THOMAS G(ORDON), b. Killdeer, N.Dak, Mar. 30, 21; m. 43; c. 2. PSYCHOLOGY. B.S, Illinois, 46; M.S, North Dakota, 50; univ. fel, Chicago, 51-52, Nat. Inst. Ment. Health fel, 52-53, Ph.D.(psychol), 58. Intermediate analyst mkt. res, Standard Oil Co.(Ind), 53-54, sr. analyst, 54-56, asst. supvr, 56-58, res. assoc. mkt. econ, 58-59; assoc. prof. mgt, prod. & mkt, sch. bus. admin, Oregon, 59-62; v.pres. consult. mkt. res, Rome Arnold & Co, 62-64; assoc. prof. MGT, MONTANA, 64-65, PROF. & CHMN. DEPT, 65- Social psychology, especially role theory; theories of attitude change; opinion-attitude research methodology; relation of consumer behavior to behavioral science constructs; business administration. Address: School of Business Administration, University of Montana, Missoula, Mont. 59801.

JOHNSON, DR. THOMAS J, b. St. Louis, Mo, Mar. 6, 29; m. 55; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Washington (St. Louis), 52, M.A, 59, Ed.D.(ed. psychol), 62. Teacher & counsr, high sch, Mo, 52-59; instr, Washington (St. Louis), 59-61, sr. res. assoc, 61-62; asst. prof. ed. psychol, Wisconsin, 62-65, dir. learning lab. & res. center, 64-65; ASSOC. PROF. ED. & PSYCHOL, WASHINGTON (ST. LOUIS), 65- Acting dir. res. & develop, Cent. Midwest. Regional Ed. Lab, 66-67. Mem. res. cmn, Asn. Supv. & Curriculum Develop, 67-70. U.S.N, 46-48; U.S.A.F, 50-51. Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Computer technology in education; educational data systems design; conceptual learning. Publ: Co-auth, Language, motivation and meaning, Asn. Supv. & Curriculum Develop, 68; Some determinants and consequences of the teachers perception of causation, J. Ed. Psychol, 64. Address: Box 1183, Washington University, St. Louis, Mo. 63130.

JOHNSON, DR. V(ERNON) WEBSTER, b. DeKalb, Ill, Dec. 5, 99. LAND ECONOMICS. B.Ed, North. Ill. State Teachers Col, 22; Ph.M, Wisconsin, 25, Ph.D, 35. Mem. staff agr. econ, bur. agr. econ, U.S. Dept. Agr, Wash, D.C, 34-42, head, div. land econ, 42-50, chief economist, 50-52; consult. agr. econ. & credit, Near E. Found & Ford Found, Lebanon, 52-56; chief agr. credit adv, U.S. Opers. Mission, Iran, 56-61; land reform specialist, Agency Int. Develop, U.S. Dept. State, 61-65; AGR. CREDIT ADV, KOREA, 65- Lectr, Virginia; Maryland; grad. sch, U.S. Dept. Agr. Consult, Agency Int. Develop-Wash, D.C, State Dept; Econ. consult. Publ: Land problems, policies and programs; Agriculture credit in Iran; Agricultural credit in Korea. Address: 560 N St. S.W, Washington, D.C. 20024.

JOHNSON, PROF. WALTER FRANK, JR, b. Clear Lake, Wis, Aug. 28, 14; m. 40; c. 3. COUNSELING, PSYCHOLOGY. B.S, Minnesota, 40, M.A, 42, Ph.D.(ed. psychol), 50. Teacher, pub. schs, Wis, 35-37; instr. ed. & dir. student personnel, Minnesota, 42-48; prof. & chmn. guid. & personnel serv, COL. ED, MICH. STATE, 48-61, dir. faculty develop, 61-65, PROF. ED, DEPT. COUNSELING, PERSONNEL SERV. & ED. PSYCHOL, 65- Consult, nat. defense ed, U.S. Off. Ed, 58-; U.S. Vet. Admin, 59- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn.(ed, Counseling News & Views, 53-56); Personnel & Guid. Asn.(treas, 56-57, pres, 58-59). Aptitude testing; counseling techniques and methods; student personnel administration. Publ: Contrib, Public relations gold mine; co-auth, Pupil personnel and guidance services. Address: 438 College of Education, Michigan State University, East Lansing, Mich. 48823.

JOHNSON, DR. WALTER L, b. Iola, Kans, June 7, 23; m. 45; c. 3. SOCIOLOGY. B.A, Yale, 48, M.A, 49, Ph.D.(sociol), 52. Instr. med. sociol, State Univ. N.Y. Downstate Med. Center, 52-56; proj. dir. nursing res, Am. Nurses Found, 56-65; SOCIOLOGIST, HEALTH & HOSP. PLANNING COUN, 65- U.S.A.A.F, 43-45, 1st Lt. Sociol. Asn. Medical sociology; health and disease; professional delivery of care. Publ: Content and dynamics of home visits of public health nurses, Am. Nurses Found, 62. Address: Health & Hospital Planning Council, 3 E. 54th St, New York, N.Y. 10022.

JOHNSON, DR. WENDELL, Psychol, Speech Path, see 10th ed, Soc. & Behav. Vols, deceased 65.

JOHNSON, DR. WILLARD RAYMOND, b. St. Louis, Mo, Nov. 22, 35; m. 57; c. 2. POLITICAL SCIENCE. B.A, California, Los Angeles, 57; For. area fel, 59-61 & 62-64; M.A, Hopkins, 61; John Hay Whitney Found. fel, Harvard, 62, Ph.D.(polit. sci), 65. ASST. PROF. POLIT. SCI, MASS. INST. TECH, 64- Consult, Upward Bound. Progs, U.S. Off. Econ. Opportunity, 65-; Ed. Develop. Center, Newton, Mass, 65-; U.S. Peace Corps Training Progs, Africa. Mem, U.S. Nat. Cmn, UNESCO, 60-66. Polit. Sci. Asn; African Studies Asn. African government and politics, theory and African experience with political union and integration within and between states; French speaking and west African state. Publ: Co-auth, Cameroon Federation, In: French speaking Africa, Walker, 65; auth, African-speaking Africa?, African Forum, fall 65; country arts, In: Collier yearbook, Macmillan, 65 & 66. Address: Dept. of Political Science, Massachusetts Institute of Technology, Cambridge, Mass. 02138.

JOHNSON, DR. WILLIAM E(MMETT), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

JOHNSON, COMDR. WOODBURY, U.S.N, Psychol, Human Eng, see 10th ed, Soc. & Behav. Vols.

JOHNSTON, PROF. BRUCE F(OSTER), b. Lincoln, Nebr, Sept. 24, 19; m. 48; c. 2. AGRICULTURAL ECONOMICS. A.B, Cornell, 41; M.A, Stanford, 50, Ph.D.(agr. econ), 53. Agr. economist, U.S. Mission to NATO & European Regional Orgns, Paris, 52-54; assoc. prof. ECON, FOOD RES. INST, STANFORD, 54-60, PROF, 60-, assoc. economist, 54-60. Guggenheim fel, E.Africa, 62. U.S.A, 42-46, Capt. Econ. Asn; Agr. Econ. Asn. Agriculture and economic development; food supplies and population. Publ: Staple food economies of western tropical Africa; co-ed, Agricultural development and economic growth, Cornell, 67; Role of agriculture in economic development, Am. Econ. Rev. Address: Food Research Institute, Stanford University, Stanford, Calif. 94305.

JOHNSTON, DR. DENIS F(OSTER), b. Calgary, Alta, July 7, 24; nat; m. DEMOGRAPHY, SOCIOLOGY. A.B, California, 47; M.A, Oregon, 50; M.A, Harvard, 52; Pop. Coun. fel, Princeton, 53-54; Ph.D, American Univ, 61. Demog. statistician, Bur. Census, 58-61; BUR. LABOR STATIST, 61-64, CHIEF BR. LABOR FORCE & DEMOG. PROJ. DIV. LABOR FORCE STUDIES, 64- Lectr, Howard Univ. & U.S. Dept. Agr. Grad. Sch, 62-; U.S. Dept. Labor career serv. award, 67-68. U.S.A, 43-46. AAAS; fel. Sociol. Asn; Pop. Asn; Philos. Sci. Asn; Acad. Polit. & Soc. Sci: Int. Union Sci. Study Pop. Sociological theory; manpower. Publ: An analysis of sources of information on the population of the Navaho, Bur. Am. Ethnol, Smithsonian Inst, 66; Long range projections of labor force, In: Second symposium on long range forecasting and planning, Defense Document. Center, 68. Address: 1434 36th St, N.W, Washington, D.C. 20007.

JOHNSTON, PROF. EDWARD FRANKLIN, b. Easton, Maine, Dec. 31, 27; m. 56; c. 3. AGRICULTURAL ECONOMICS. B.S, Maine, 53; M.S, Pa. State, 55. ASSOC. PROF. AGR. ECON, EXP. STA, MAINE, 54- U.S.A, 46-47, Res, 47-50. Agr. Econ. Asn; Potato Asn. Developing more efficient work methods, devices and equipment for physical handling; cleaning, washing, grading, sizing, packaging and other related practices on Maine potatoes in commercial packing and storage houses. Address: Box 765, Maine Potato Handling Research Center, Presque Isle, Maine 04769.

JOHNSTON, DR. HOWARD W(RIGHT), b. Traer, Iowa, July 31, 13; m. 47; c. 2. POLITICAL SCIENCE. B.A, Coe Col, 35; scholar, Chicago; M.A, Columbia, 47, Ph.D.(polit. sci), 56. Asst. chief youth activities, U.S. Off. Mil. Govt, Germany, 47-48, chief higher ed, Off. & U.S. High Cmnr. for Germany, 48-50; dep. in charge German cultural & soc. rels, Bur. German Affairs, U.S. Dept. State, D.C, 51-53; ed, Current Germany, Carl Schurz Mem. Found, 54-55; prog. officer, Govt. Affairs Inst, 56-57; pres, Anatolia Col, Greece, 58-64; PROF. POLIT. SCI. & V.PRES. ACAD. AFFAIRS, IOWA WESLEYAN COL, 64- U.S.A, 41-45, Maj. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. International relations; comparative government; political theory. Publ: Living memorials in the recreation field, Recreation; The Free University of Berlin, Info. Bull. Address: Dept. of Political Science, Iowa Wesleyan College, Mt. Pleasant, Iowa 52641.

JOHNSTON, PROF. LOUIS W(ILLIAM) H(OFFMAN), b. Pittsburgh, Pa, Mar. 1, 07; m. 34; c. 2. POLITICAL SCIENCE. A.B, Pittsburgh, 29, A.M, 34; Yale, 31-33, 37-38. Asst. POLIT. SCI, PITTSBURGH, 29-31, lectr, 34-37, instr, 38-42, asst. prof, 44-48, assoc. prof, 48-51, PROF, 51- Assoc. recruiting specialist, U.S. Civil Serv. Cmn, 42-44. Polit. Sci. Asn. Political theory. Address: Dept. of Political Science, University of Pittsburgh, Pittsburgh, Pa. 15213.

JOHNSTON, DR. PETER BUDGE, b. Logan, Utah, July 28, 27; m. 52; c. 4. PSYCHIATRY. B.S, Utah, 53, M.D, 58. Intern, Holy Cross Hosp, Salt Lake City, Utah, 58-59; res. PSYCHIAT, Univ. Chicago Hosps. & Clins, 59-62, instr, CHICAGO, 63-64, ASST. PROF, 64-, PSYCHIATRIST, STUDENT HEALTH SERV, 63- Lectr, Ill. Acad. Gen. Practice, 67- Psychiat. consult, Vis. Nurse Asn. Chicago, 62-; Ill. State Psychiat. Inst, 63-; Chicago Bd. Health, 63-64, 66-; Peace Corps, 65-66. U.S.N.R, 45-46. University student mental health; community psychiatry. Address: Dept. of Psychiatry, University of Chicago, 950 E. 59th St, Chicago, Ill. 60637.

JOHNSTON, DR. PHILIP WILLIAM, b. Worcester, Mass, Apr. 21, 09; m. 39; c. 5. PSYCHOLOGY. A.B, Clark, 31; Ph.D.(psychol), Harvard, 42. HEAD CHILD GROWTH, STATE DEPT. PUB. HEALTH, MASS, 39- Civilian with Off. Sci. Res. & Develop. U.S.N, 42-45. Statist. Asn; Pub. Health Asn. Vision and hearing. Address: Massachusetts Dept. of Public Health, 88 Broad St, Boston, Mass. 02110.

JOHNSTON, DR. RAY E, b. Douglas, Wyo, May 3, 32; m. 56; c. 3. POLITICAL SCIENCE. B.A, Sacramento State Col, 59; M.A, Wyoming, 60; Ph.D. (polit. sci), Oregon, 67. Mgr, West. Union. Tel. Co, 54-57; teacher, high sch, Wyo, 60-61; instr. POLIT. SCI, Purdue, 65-67; ASST. PROF, WAYNE STATE, 67- Consult, Ed. Proj, Inc, Off. Econ. Opportunity for Upward Bound, 65-67. U.S.A.F, 49-52, Sgt. Polit. Sci. Asn; Soc. Pub. Admin; Int. Peace Res. Soc. Behavioral analysis of American and cross-national community politics; systems analysis and research methodology. Publ: Co-auth, Primer of political analysis, Markham, 68 & Politics and the poor, Merrill, 68; auth, Levels of demand articulation as a means of measuring community power, Ind. Acad. Soc. Sci, 68. Address: Dept. of Political Science, Wayne State University, Detroit, Mich. 48202.

JOHNSTON, DR. RICHARD B, b. Middletown, Ohio, Sept. 10, 30; m. 57; c. 3. ARCHAEOLOGY. A.B, Indiana, 53, M.A, 57, Wenner-Gren fel, 60-61; Ph.D. (anthrop), 62. Res. assoc. archaeol, Ind. Hist. Soc, 61-64; ASST. DIR. PLAINS ARCHAEOL, RIVER BASIN SURV, SMITHSONIAN INST, 65- U.S.A, 53-55. Soc. Am. Archaeol; fel. Anthrop. Asn. Northeastern United States prehistory; historic and prehistoric archaeology in the United States; Midwest; archaeological methodology; United States plains archaeology; administration of archaeological research programs. Publ: Proton magnetometry and its application to archaeology, Ind. Hist. Soc, 64; The Hitchell site, Smithsonian Inst. River Basin Surv, 67; The archaeology of the serpent mounds site, Royal Ont. Mus, 68. Address: River Basin Surveys, Smithsonian Institution, 1835 P St, Lincoln, Nebr. 68508.

JOHNSTON, PROF. ROBERT A(TKINSON), b. Allentown, Pa, July 8, 31; m. 53; c. 3. PSYCHOLOGY. B.A, Haverford Col, 52; M.A, Iowa, 54, Ph.D. (psychol), 55. Intern, Vet. Admin. Hosp, Knoxville, Iowa, 55-56, staff psychologist, Coatesville, Pa, 56-57; asst. prof. PSYCHOL, Richmond, 57-59, assoc. prof. & dir. Univ. Center for Psychol. Serv, 59-63; assoc. prof, COL. WILLIAM & MARY, 63-66, PROF, 66-, ASSOC. DEAN OF FACULTY, 63- Psychol. Asn. Clinical application of psychological principles; motivation; learning; personality. Publ: The effect of differential instructions and achievement imagery on maze learning, 55 & Methodological analysis of several revised forms of the Iowa picture interpretation test, 57, J. Personality; co-auth, A further investigation of the relation between anxiety and digit symbol performance, J. Consult. Psychol, 62. Address: Dept. of Psychology, College of William & Mary, Williamsburg, Va. 23185.

JOHNSTON, PROF. ROLAND E(LLIOTT), JR, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

JOHNSTON, PROF. SCOTT D, b. Evanston, Ill, Oct. 8, 22. POLITICAL SCIENCE. A.B, Minnesota, 44, B.S, 45, A.M, 47, Ph.D, 52. Instr, high sch, Minn, 45-46; asst, Minnesota, 46-47; instr. POLIT. SCI, HAMLINE, 47-49, asst. prof, 49-52, from assoc. prof. to PROF, 52- Coordinator, Hill Found-Far East Asia Study Prog, 55-56, 58-59, 61-62 & 65-66; Soc. Sci. Res. Coun. grant, 60; summers, Hills Found. grant, Japan, 65, dir. Faculty Inst. on Mid. East, 64, 68, Faculty Inst. Far East, 67. Israeli political party system. Publ: Chapter on Israeli party, 62, 63, 64 and Politics of transition in Israel and Japan, West. Polit. Quart, 6/67. Address: Dept. of Political Science, Hamline University, St. Paul, Minn. 55101.

JOHNSTON, DR. S(TAFFORD) WHITTLE, b. Roanoke, Va, Nov. 14, 27; m. 56; c. 3. POLITICAL SCIENCE. B.A, Chicago, 50; B.A, Swarthmore Col, 52; fel, Harvard, 54-59, Ph.D, 59. ASSOC. PROF. INT. RELS, AMERICAN UNIV, 59- Vis. lectr, Swarthmore Col, 64; Rockefeller Found. res. grant, 64-65; vis. assoc. prof, Hopkins, 68. U.S.N, 46-47. Polit. Sci. Asn. Liberal theories of world politics; the American political tradition. Publ: New tension in the western alliance, World Affairs, spring 63; E.H. Carr's theory of international relations: a critique, J. Polit, 11/67; Little America—big America?, Yale Rev, 68. Address: School of International Service, American University, Washington, D.C. 20016.

JOHNSTON, DR. WARREN E(UGENE), b. Woodland, Calif, May 27, 33; m. 59; c. 1. AGRICULTURAL ECONOMICS, ECONOMICS. B.S, California, Davis, 59; M.S. & Ph.D.(agr. econ), N.C. State, 63. ASST. PROF. AGR. ECON, CALIFORNIA, DAVIS, 63- U.S.A, 54-57. Econ. Asn; Agr. Econ. Asn. Resource economics and agricultural policy; land and human inputs in agriculture; economics of outdoor recreation. Publ: Co-auth, Future cropland requirements and projection sensitivity, J. Farm Econ, 8/66; The supply of farm operators, Econometrica, 1/68. Address: Dept. of Agricultural Economics, University of California, Davis, Calif. 95616.

JOHNSTON, WARREN R, b. Brooklyn, N.Y, Oct. 29, 13; m. 42; c. 3. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B, Columbia, 36; dipl. Japanese, Colorado, 44; cert. int. admin, Columbia, 44; dipl. U.S. for. policy, U.S. Army War Col, 55. Analyst & ed. Far East affairs, U.S. Govt. Mil. & Civilian Serv, Wash, D.C, 46-50; ed. & adminstr. for. affairs, U.S. Defense Estab, D.C, 51-59, 64-67; analyst, ed. & planning officer European & Middle East affairs, U.S. Mission, Greece, 59-64; ASST. CHIEF FOR. AFFAIRS DIV. & SPECIALIST INT. POLIT, LEGIS. REFERENCE SERV, LIBRARY CONG, 67- Mayor, Garrett Park, Md, 66- U.S.N.R, 42-46, Lt. Soc. Pub. Admin; Polit. Sci. Asn; Int. Studies Asn; Soc. Int. Develop. United States foreign policy and machinery; international politics; less developed areas; population; cultural exchange; local government. Publ: Co-auth. & ed, Report of U.S. government to UN on trust territory of the Pacific islands, U.S. Navy Dept, 48; auth, A national plan for the long haul, U.S. Army War Col, 55. Address: 10706 Kenilworth Ave, Garrett Park, Md. 20766.

JOHNSTONE, DR. JOHN (T), JR, b. St. Louis, Mo. Mar. 26, 21; m. 48; c. 1. MEDICINE, PSYCHIATRY. A.B, Westminster Col, 42; M.D, Washington (St. Louis), 45. Intern, Touro Infirmary, La, 45-46; staff physician, student health serv, Kansas, 48-49; asst. res. med, Mo-Pac Hosp, Mo, 49-50; psychiat. & neurol, Barnes Hosp, 50-52; instr. med, St. Louis, 52-65. Mem. staff, Univ. Hosps, 52-; Vet. Admin. Hosp, 52-56; staff physician, St. Louis Labor Health Inst, 52-67; courtesy staff, Deaconess Hosp, 53-56; active staff, St. Joseph Hosp, 54-64. Med.C, 46-48, Lt. Am. Med. Asn. Comparative linguistics as reflected in medical and psychological language and terminology; psychosomatic medicine; religion. Address: 206 W. Argonne, Kirkwood, Mo. 63122.

JOHNSTONE, DR. JOHN W(ALLACE) C(LAIRE), b. Ottawa, Ont, July 25, 31; m. 55; c. 1. SOCIOLOGY. B.A, Carleton (Can), 53; M.A, Chicago, 55, Louis Wirth fel, 56-57, Ph.D.(sociol), 61. Supvr. audience res, Can. Broadcasting Corp, 59-61; sr. study dir, NAT. OPINION RES. CENTER, 61-67, ASSOC. DIR, 67- Prof. lectr, Chicago, 67- Consult, Can. Royal Cmn. Bilingualism & biculturalism, 64-67. Am. Sociol. Asn; Can. Polit. Sci. Asn; Can. Sociol. & Anthrop. Asn. Mass communications and public opinion; sociology of education; sociology of youth. Publ: Co-auth, Volunteers for learning Aldine, 65. Address: National Opinion Research Center, 6030 Ellis Ave, Chicago, Ill. 60637.

JOHNSTONE, PROF. WILLIAM C(RANE), JR, b. Denver, Colo, Sept. 2, 01; m. 29; c. 2. INTERNATIONAL POLITICS. A.B, Denver, 24, A.M, 27; Jacobs fel, Stanford, 29-30, Ph.D, 32. Instr. polit. sci, George Washington, 30-31, asst. prof, 31-34, assoc. prof, 34-38, prof, 38-46, act. dean, jr. col, 34-35, dean, 35-44, sch. govt, 44-46; dir. off. ed. exchange, U.S. Dept. State, 48-52, dep. adminstr, int. info. admin, 52-53; PROF. ASIAN STUDIES, SCH. ADV. INT. STUDIES, HOPKINS, 53- Chief pub. affairs officer, Am. Embassy, New Delhi, India, 46-47; dep. adminstr. field progs, Int. Info. Admin, 52-53; co-dir, Rangoon-Hopkins Center Southeast Asian Studies & vis. prof, Univ. Rangoon, 57-59. Consult, Ford Found, 54-56; Rand Corp, 56- Polit. Sci. Asn. International relations; Far Eastern affairs, politics and government. Publ: The United States and Japan's new order; The future of Japan; Burma's foreign policy. Address: 3065 University Terr, N.W, Washington, D.C. 20016.

JOKINEN, PROF. WALFRID J(OHN), b. Hibbing, Minn, July 22, 19; m. 41; c. 2. SOCIOLOGY. B.A, Minnesota, 51; M.A, La. State, 53, Ph.D.(sociol), 55. Res. assoc. demog, inst. pop. res, La. State, 53-54, instr, dept. sociol, 54-55; prof. sociol. & head dept, Northland Col, 55-56; asst. prof. & coordinator of inst. res, LA. STATE, 56-58, assoc. prof. RURAL SOCIOL, 61-67, PROF, 67-, HEAD DEPTS. RURAL SOCIOL. & SOCIOL, 61-, asst. dean, grad. sch, 58-61. U.S.A.A.F, 42-46. Sociol. Asn; Indust. Rels. Res. Asn. Ethnic relations; theory; industrial sociology. Address: 2218 Bardwell Dr, Baton Rouge, La. 70808.

JOLIVET, PROF. VINCENT M, b. Shawinigan, Que, May 14, 30; m. 54; c. 4. FINANCE, BUSINESS ADMINISTRATION. B.E, McGill, 52; M.B.A, Harvard, 54, Ford fel, 55-56, D.U. Mem. Smith, Sabbaton & McConnell Mem. fels. & D.B.A.(finance), 57. Res. asst. FINANCE, Harvard Bus. Sch, 54-55; asst. prof, WASHINGTON (SEATTLE), 56-59, assoc. prof, 59-65, PROF, 65- Prof, Mgt. Develop. Inst, Switz, 61-62, vis. prof, Stanford, winter, 65. V.pres, Rocket Res. Corp, 66- Financial Execs. Inst; Finance Asn; Am. Acct. Asn; Eng. Inst. Can. Corporate finance, particularly cost of capital, sources of capital and securities underwriting. Publ: Sources of credit and capital in Washington, Univ. Washington, 62. Address: Dept. of Finance, College of Business Administration, University of Washington, Seattle, Wash. 98105.

JOLLEY, PROF. V(ERNON) D(AKE), Bus. Admin, see 10th ed, Soc. & Behav. Vols, deceased 63.

JOLLY, PROF. HOWARD D, b. Fullerton, Calif, Sept. 20, 21; m. 43; c. 2. SOCIOLOGY. A.B, California, 46; A.M, Stanford, 48, Ph.D.(sociol), 67. Asst, Stanford, 47-49; instr. SOCIOL, REED COL, 49-51, asst. prof, 51-57, assoc. prof, 57-66, PROF, 66- Sociol. Asn. Rural-urban origins of men of science and letters. Address: Dept. of Sociology, Reed College, Portland, Ore. 97302.

JOLLY, DR. RAYMOND C(OLEMAN), b. Clyde, Tex, July 19, 16; m. 53; c. 6. PUBLIC ADMINISTRATION, POLITICAL SCIENCE. A.B, San Diego State Col, 50; M.F.S, Southern California, 54, D.P.A, 58. Vis. asst. prof. pub. admin, Int. Coop. Admin. contract to Univ. Tehran, for Univ. Southern California, 54-56, vis. assoc. prof, Agency Int. Develop. contract, Getulio Vargas Found, Rio de Janeiro, 59-61 & Univ. Bahia, Brazil, 61-63; training officer financial mgt, off. career develop, U.S. Civil Serv. Cmn, 63-64; ASSOC. PROF. POLIT. SCI, COL. IDAHO, 64- Mem, Citizens Cmt. State Legis, Idaho, 67- U.S.N.R, 44-46. Industrial and public personnel management; archives and records management; state and local government. Address: Dept. of Political Science, College of Idaho, Caldwell, Idaho 83605.

JONAS, PROF. FRANK H(ERMAN), b. Salt Lake City, Utah, Apr. 18, 06. POLITICAL SCIENCE. A.B, Utah, 28, A.M, 39; Berlin, 31; fel, Washington (Seattle), 35-36, 37-38, Ph.D, 38. Instr, Idaho State Col, 36-37; asst. prof, Southern California, 38-41; New Mexico, 41-43; Utah State Agr. Col, 46-47; lectr, Illinois, 47; assoc. prof. POLIT. SCI, UTAH, 47-56, PROF, 56- Expert, personnel sect, Hill Air Force Base, Utah, 51; scrutiny officer for. serv, U.S. Dept. State, Off. High Cmnr, Frankfurt, Germany, 51-53; vis. prof, Vanderbilt, 55, 59; Nimitz Chair, U.S. Naval War Col, 60-61. Publ: Ed. & contrib, Western politics. Address: Dept. of Political Science, University of Utah, Salt Lake City, Utah 84112.

JONAS, DR. PAUL, b. Budapest, Hungary, Aug. 27, 22; U.S. citizen; m. 59; c. 1. ECONOMICS. Dipl, Univ. Tech. & Econ. Sci, Budapest, 47, Ph.D. (econ), 48; Ph.D.(econ), Columbia, 66. Head econ. planning, planning & statist. dept, Nat. Iron Co, Budapest, 53-56; instr. ECON, sch. commerce, N.Y. Univ, 60-63; asst. prof, BROOKLYN COL, 63-66, ASSOC. PROF, 66- Vis. assoc. prof, New Mexico, 67-69. Econ. Asn; Statist. Asn; Economet. Soc. Economic analysis and planning; soviet-type economics. Publ: The redistribution of the product-mix in a centrally planned economy, South. Econ. J, 7/68; co-auth, Economic growth and the distribution of income, Proc. Am. Statist. Asn, 68. Address: Dept. of Economics, Brooklyn College, Brooklyn, N.Y. 11210.

JONAS, PROF. RICHARD O, b. Blanco, Tex, Mar. 8, 98; m. 22; c. 1. PSYCHOLOGY. B.A, Texas, 20, M.A, 23, fel, 42-44; summer, Chicago, 30. Instr. ed. & psychol, Texas, 19-21 & summer 23; prof. psychol. & ed. & counsr. & dir. guid, Wichita Falls Jr. Col, 22-42; instr. ed, Texas, 42-44; assoc. prof. psychol, HOUSTON, 44-47, chief counsr, 44-47, dir. guid, 47-51, prof, 47-56, guid. consult, 51-55, res. prof, 56-58, univ. archivist, 58-63, EMER. PROF. PSYCHOL, 63- AAAS; Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn; Soc. Am. Archivists. Counseling techniques; occupational information; personality development. Publ: Study habits self-analysis; Working concepts of guidance; Teacher certification, Rev. Ed. Res. Address: 4375 Varsity Lane, Houston, Tex. 77004.

JONASSEN, PROF. CHRISTEN T(ONNES), b. Norway, Sept. 5, 12; U.S. citizen; m; c. 1. SOCIOLOGY. A.B, Brooklyn Col, 37; A.M, N.Y. Univ, 41, Ph.D. (sociol), 47. Instr. SOCIOL, OHIO STATE, 47-49, asst. prof, 49-54, assoc. prof, 54-60, PROF, 60- Dir, Int. House, Columbus, 49; res. projs, Nat. Res. Coun. & Ohio State Univ. Res. Found, 52-54; Fulbright res. prof, inst. soc. res, Oslo, 62-63. Chief investr, U.S. Off. Ed. Proj, 64-65; Consult, 54-55. Ed, Ohio Valley Sociologist, 53-57. Fel. Sociol. Asn; Acad. Polit. & Soc. Sci; Statist. Asn. Sociology of urban life; community analysis; cultural area research. Publ: Interrelationships of dimensions of community systems, Ohio State Univ, 60; Community conflict: a cross-cultural study, Oslo Univ, 68; The protestant ethic and the spirit of capitalism in Norway, Am. Sociol. Rev, 47. Address: Dept. of Sociology & Anthropology, Ohio State University, Columbus, Ohio 43210.

JONASSOHN, PROF. KURT, b. Cologne, Germany, Aug. 31, 20; Can. citizen; m. 56; c. 2. SOCIOLOGY. B.A, Sir George Williams, 53; summer, Wisconsin, 51; M.A, McGill, 55; Imp. Oil fel, Chicago, 55-57. Asst. study dir. SOCIOL, Chicago, 57-59; res. sociologist, Hq, Royal Can. Air Force, Ont, 59-61; asst. prof. SOCIOL, SIR GEORGE WILLIAMS, 61-64, ASSOC. PROF, 65- Res. grants, Found. Fund for Res. Psychiat, 62-68 & Can. Dept. Nat. Health & Welfare, 63-66. Consult, Ment. Hyg. Inst. Montreal, 62-66; Royal Cmn. Status of Women Can, 67- Am. Sociol. Asn; Soc. Res. Child Develop; Can. Sociol. & Anthrop. Asn. Sociol organization and structure; structural relationships in family, school and work situations. Publ: Co-auth, The formation, nature, and control of crowds, Can. Defence Res. Bd, 56, The adolescent society, Macmillan, 61 & Are adopted children especially vulnerable to stress?, Arch. Gen. Psychiat, 66. Address: Dept. of Sociology, Sir George Williams University, Montreal 25, Que, Can.

JONES, PROF. A(LBERT) RAYBURN, b. Memphis, Tex, Mar. 28, 28; m. 57; c. 1. PSYCHOLOGY. B.A, Millsaps Col, 52; Ph.D.(clin. psychol), Vanderbilt, 59. Clin. psychologist, Vet. Admin, 59-60; assoc. prof. PSYCHOL, BIRMINGHAM-SOUTH. COL, 60-66, PROF, 66- Consult. clin. psychologist, Jefferson County Ment. Health Clin, 60- Psychol. Asn. Personality assesment; psychological effects of brain damage; psychotherapy. Address: Dept. of Psychology, Birmingham-Southern College, Birmingham, Ala. 35204.

JONES, DR. ALFRED L(EONARD), b. Atlanta, Ga, Jan. 25, 25; wid; c. 1. PSYCHOLOGY. B.A, New Sch. Soc. Res, 50; M.A, N.Y. Univ, 51, Ph.D, 55. Res. dir. soc. psychol, Jones & Timmons, 45-49; counsr, New York Asn. New Americans, 49-52; instr. psychol, N.Y. Univ, 52-54, lectr, grad. sch, 55-59; assoc. prof, N.J. State Col, 54-55; exec. dir, MENT. HEALTH CONSULT. CENTER, 59-62, CO-DIR, 62- Lectr, Cooper Union, 51, 58-59; Brooklyn State Hosp. Psychiat. Forum, 62; v.pres, Fedn. Ment. Health Centers, Inc, 60-66, exec. dir, 66-; pres, Ment. Health Inst, Inc, 60- U.S.A.A.F, 42-45, Lt. AAAS; Psychol. Asn; Orthopsychiat. Asn. Psychotherapy; psychoanalysis; teaching; neuropsychology. Publ: Some notes on countertransference; Psychophysiological aspects of obesity; Problems in family therapy, Medicine et Hygiaea, 65. Address: Mental Health Consultation Center, 25 W. 81st St, New York, N.Y. 10024.

JONES, DR. ALLAN W(ILLIAM), b. Buffalo, N.Y, Oct. 21, 29; m. 55. PSYCHOLOGY. A.B, Youngstown, 50; A.M, Columbia, 51; Ph.D.(psychol), Ohio State, 54. Asst, Ohio State, 53-54; fel. counseling psychol, Vet. Admin. Hosp, Chillicothe, Ohio, 54-55; assoc. proj. dir, Moosehaven Res. Lab, 55-56; human factors scientist, SYST. DEVELOP. CORP, 56-63, SR. HUMAN FACTORS SCIENTIST, 63-, ASST. DIR. PERSONNEL, 66- AAAS; Psychol. Asn; fel. Geront. Soc. Counseling; management counsulting; personnel administration. Publ: Comparison between a hospitalized and a normal group on the X-O tests; co-auth, Age changes in moral codes, anxieties and interests, as shown by the X-O tests, J. Psychol; co-auth, Serving the severely disabled: mental illness, Employ. Security Rev. Address: System Development Corp, 2500 Colorado Ave, Santa Monica, Calif. 90406.

JONES, DR. AMOS D(IXON), b. Roswell, N.Mex, Oct. 7, 33; m. 52; c. 3. AGRICULTURAL ECONOMICS. B.S, New Mexico State, 55; M.S, Wyoming, 56; Ph.D.(agr. econ), Agr. & Mech. Col.(Tex), 61. Lab. asst, New Mexico State, 52-55; asst. wool tech, Wyoming, 55-56, instr, 56; asst. br. mgr. wool testing, U.S. Testing Co, Denver, Colo, 56; coop. agent agr. econ, New Mexico State & U.S. DEPT. AGR, 57-58, agr. economist, MKT. ECON. DIV, ECON. RES. SERV, 58-64, ASST. CHIEF, 64- Nat. Inst. Pub. Affairs fel, Woodrow Wilson Sch. Govt. & For. Affairs, Virginia, 67-68. Agr. Econ. Asn. Public administration and research program development on the marketing of fibers, grains and oilseeds. Address: Marketing Economics Division, Economic Research Service, U.S. Dept. of Agriculture, Washington, D.C. 20250.

JONES, DR. ARTHUR R, JR, b. Welsh, La, Sept. 7, 37; m. 60; c. 2. SOCIOLOGY. B.A, Baylor, 59; M.A, La. State, 62, Ph.D.(sociol), 64. Asst. prof. sociol, Maryland, 64-66; ASST. PROF. SOCIOL. & ASSOC. SOCIOLOGIST, SOC. SCI. RES. CENTER, MISS. STATE, 66- Sociol. Asn; Rural Sociol. Soc. Sociology of complex organizations; sociological inquiry into human and social problems of natural resource development and utilization. Publ: Co-auth, Rural life and urbanized society, Oxford, 64; auth, Human factors in woods burning: a study of the change in beliefs of the residents of a national forest in Louisiana, La. Agr. Exp. Sta, 65; co-auth, Professionals and specialists in agribusiness: an analysis of social organization & power, Sociologia Ruralis, fall 65. Address: Social Science Research Center, Mississippi State University, State College, Miss. 39762.

JONES, DR. AUSTIN (EDWARD), b. Reading, Pa, Apr. 21, 29; m. 52; c. 2. PSYCHOLOGY. A.B, Illinois, 51; M.S, Purdue, 54; Ph.D, Rochester, 57. Vis. instr. PSYCHOL, Rochester, 56-57; asst. prof, PITTSBURGH, 57-61, ASSOC. PROF, 61- Consult, Vet. Admin, 58- Psychol. Asn. Learning and motivation; information theory; personality theory. Publ: Efficiency of utilization of visual information and the effects of stress & Information deprivation as a motivation variable, J. Exp. Psychol; Distributions of traits in current Q-sort methodology, J. Abnorm. & Soc. Psychol. Address: Dept. of Psychology, University of Pittsburgh, Pittsburgh, Pa. 15213.

JONES, PROF. BARCLAY GIBBS, b. Camden, N.J, June 3, 25; m. 57; c. 2. URBAN & REGIONAL PLANNING, ECONOMICS. B.A, Pennsylvania, 48, B.Arch, 51; M.R.P, North Carolina, 55, Ph.D, 61. Instr. CITY & REGIONAL PLANNING, California, 56-57, asst. prof, 57-61; assoc. prof, CORNELL, 61-67, PROF, 67-, ASSOC. DIR, URBAN STUDIES CENTER HOUSING & ENVIRON. STUDIES, 62- Consult, environ. sci. training cmt, U.S. Pub. Health Serv, 63-67; adv. bd, Historic Am. Buildings Surv, U.S. Dept. Interior, 67- U.S.A, 43-46. AAAS; Econ. Asn; Statist. Asn; Inst. Planners; Inst. Archit; Soc. Archit. Hist; Regional Sci. Asn; Soc. Aesthetics; Urban & Regional Info. Systs. Asn.(pres, 67-68). Urban economic theory; spatial distribution of population and economic activity; aesthetic aspects of urban physical form. Publ: Personal income estimates for North Carolina counties: 1939, 1947, 1950, 1954; Prolegomena to a study of the aesthetic effect of cities, J. Aesthetics & Art Criticism. Address: 117 W. Sibley Hall, Dept. of City & Regional Planning, Cornell University, Ithaca, N.Y. 14850.

JONES, DR. B(ILL) E(DSON), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

JONES, DR. B(OB) F(RANKLIN), b. Ottawa, Kans, May 7, 26; m; c. 3. AGRICULTURAL ECONOMICS. B.S, Kansas State, 59, M.S, 61; Ph.D.(agr. econ), Mich. State, 64. Asst. instr. AGR. ECON, Kansas State, 59-61; res. asst, Mich. State, 61-64; asst. prof, PURDUE, 64-67, ASSOC. PROF, 67- Consult, J.I. Case Co, 66- U.S.A, 55-56. Agr. Econ. Asn. Agricultural policy; international trade; economics of beef cattle business; farm labor and management. Publ: Co-auth, The volume of commodities involved in price support programs related to the indexes of farm output, 1948-1960, 62 & auth, Impact of government-subsidized farm operating loans on family labor employment in agriculture, 12/66, J. Farm Econ; Input markets for labor and labor substitutes, Iowa State Center Agr. & Econ. Develop, 67. Address: Dept. of Agricultural Economics, Krannert Bldg, Purdue University, Lafayette, Ind. 47907.

JONES, DR. BOBBY FRANK, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JONES, PROF. B(UTLER) A(LFONSO), b. Birmingham, Ala, July 22, 16. SOCIAL SCIENCE. A.B, Morehouse Col, 37; A.M, Atlanta, 38; Gen. Ed. Bd. fel, Stanford, 43; Rosenwald Fund fel, N.Y. Univ, 47-48, 49. Instr. soc. sci, lab. sch, Atlanta, 38-42; prof, Talledega Col, 43-53; from vis. assoc. prof. to PROF. SOCIOL. & CHMN. DEPT, OHIO WESLEYAN, 52- Am. Philos. Soc. res. grant, 58-59; vis. prof, Oberlin Col, 62-63; summers, vis. lectr, Case Western Reserve, 64, Mich. State, 65, Wisconsin, 67. Consult, Sec. Sch. Study for Negroes, 40-43; U.S. Cmn. Civil Rights, 64-65. Soc. Study Soc. Probs; Sociol. Asn; Soc. Appl. Anthrop; Law & Society Asn. Studies in judicial role behaviors in the South, especially an analyiss of the responses of federal judges to the Negro's demand for equality of opportunity, 1932-1965. Publ: New legal requirements for race relations in the South, Phylon, 52; The case is remanded, Soc. Probs, 59; Listen to the lambs-all a crying, Dia'og, spring 64. Address: Dept. of Sociology, Ohio Wesleyan University, Delaware, Ohio 43015.

JONES, PROF. CALVIN PAUL, Brit. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JONES, PROF. CAULBERT A(UGUSTUS), African Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JONES, DEAN C(HARLES) HERSCHEL, b. East Palestine, Ohio, Dec. 26, 12; m. 39; c. 2. POLITICAL SCIENCE. A.B, Ohio Wesleyan, 35; American Univ, 37-38; Ph.D, Wisconsin, 49. Mem. tech. staff res. report, Nat. Resources Cmt, 38; admin. analyst, off. budget & finance, U.S. Dept. Agr, 42-47, orgn. & methods exam, off. secy, 48-50; asst. prof. polit. sci, Bucknell, 50-53, assoc. prof, 53-57, prof, 57-65; dean lib. arts, WILLIAMSPORT AREA COMMUNITY COL, 65-67, DEAN COL, 67- Lectr, American Univ, 50; Albany, 58-60. Consult, State Reorgn. Cmn, Pa, 56-57; State of N.Y, 61-62. Coordinator, State Pub. Admin. Training Prog, N.Y, 58-60. Chmn, Pa. State Civil Serv. Cmn, 63-; mem, Pa. Gov. Cmt. Employee Benefits & Legis, 64-; chmn. subcmt. pub. employ, Gov. Cmt. Status of Women in Pa, 65-66. Soc. Pub. Admin; Soc. Personnel Admin; Acad. Polit. & Soc. Sci. Public administration; public service training; college-government relations. Publ: Contrib. ed, Case studies in political science, Prentice-Hall, 65. Address: Williamsport Area Community College, 1005 W. Third St, Williamsport, Pa. 17701.

JONES, PROF. CHARLES O(SCAR), b. Worthing, S.Dak, Oct. 28, 31; m. 59; c. 1. POLITICAL SCIENCE. B.A, South Dakota, 53; M.S, Wisconsin, 56, Citizenship Clearing House Nat. Convention fel. & Ph.D, 60; London, 56-57. Instr. polit. sci, Wellesley Col, 59-61, asst. prof, 61-62; assoc. dir. Nat. Center Ed. Polit, 62-63; assoc. prof. POLIT. SCI, ARIZONA, 63-65, PROF, 65- Lectr, Wisconsin, summer 61; consult, Nat. Broadcasting Co, 64-66; mem. cmn. polit. activity govt. personnel, U.S. Cong, 66-67. U.S.A, 53-55, 1st Lt. Polit. Sci. Asn. Political parties and legislative behavior; public policy-making. Publ: Party and policy-making, Rutgers, 64; The Republican party in American politics, Macmillan, 65; Every second year, Brookings, 66. Address: Dept. of Government, University of Arizona, Tucson, Ariz. 85721.

JONES, PROF. CLARENCE F(IELDEN), b. Radford, Va, Aug. 20, 93; m. 17; c. 2. GEOGRAPHY. B.S, Chicago, 17, Ph.D.(geog), 23. Prin, high sch, Ill, 13-14; instr. geog, Minn. State Teachers Col.(St. Cloud), 17-18; asst. instr, Chicago, 21-23; asst. prof. econ. geog, Clark, 23-26, assoc. prof, 26-28, prof, 28-42; dir. res, Bd. Econ. Warfare, D.C, 42-43; Nat. Planning Asn, 43-44; asst. chief Europe-Africa div. & dir. res, Off. Strategic Servs, 44-45; distinguished prof. GEOG, NORTHWESTERN, 45-61, chmn. dept, 51-61, EMER. PROF, 61- With field res, Latin Am, 25, 28, 31, 33, 41, 48; field studies, Nat. Coun. Geog, Rio de Janeiro, 48; prof, Wellesley Col, 30-31; Puerto Rico, 31-32, dir. rural land classification prog, 49-52. Consult, Brazilian Govt, 48; P.R. Govt, 49-52, 55. U.S.A, 18-19. Asn. Am. Geog. (v.pres, 47-55, pres, 56); fel. Geog. Soc; Nat. Coun. Geog. Ed. Economic geography; geography of Latin America; geographic field techniques. Publ: Ed, American geography: inventory and prospect and Symposium of the geography of Puerto Rico; co-auth, Economic geography. Address: Oneida, Ill. 61467.

JONES, DR. C(LIFTON) CLYDE, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JONES, PROF. CLIFTON R(ALPH), b. Nanticoke, Md, Oct. 2, 12. SOCIOLOGY. A.B, Va. Union, 35; A.M, Iowa, 39, Rosenwald fel, 41-43, Ph.D, 43; Gen. Ed. Bd. fel, Fisk, 40-41; London Sch. Econ, 52-53. Res. assoc. SOCIOL, Fisk, 43; prof. & head dept, Fla. Agr. & Mech. Col, 45-46; prof, Morgan State Col, 46-63; ASSOC. PROF, HOWARD, 63- Consult, prog. urban affairs, Brookings Inst, 60-61; bur. employ. security, U.S. Dept. Labor, 65-66; W.E. Upjohn Inst. Employ. Res, 66; President's Nat. Adv. Cmn. Rural Poverty, 66-67. U.S.A, 43-45. Sociol. Asn; Acad. Polit. & Soc. Sci. Social psychology; collective behavior; public opinion; urbanism. Publ: The Negro press, In: One America; Sociology of symbols, language and semantics, In: Contemporary sociology; The disadvantaged child, Howard Univ. Mag, 4/67. Address: Dept. of Sociology, Howard University, Washington, D.C. 20001.

JONES, DALLAS L(EVY), JR, b. Shreveport, La, Aug. 29, 14; m. 38; c. 2. ECONOMICS. B.A, Centenary Col, 35; B.S.F.S, Georgetown, 46; Oslo; M.A, Yale, 56. For. trade specialist, U.S. Dept. Commerce, 46-49; commercial attache, Am. Embassy, U.S. Dept. State, Norway, 49-52, econ. attache, France, 52-55, mem. staff, Int. Finance Div, D.C, 55-61, econ. officer, Spain, 61-64; ECON. ADV, U.S. MISSION TO ORGN. ECON. COOP. & DEVELOP, 65- U.S.N.R, 43-45. Econ. Asn; European payments arrangement; economic analysis. Publ: Geographic survey of the French economy, Am. J. Econ. & Soc; Virginia, a real world trader, Commonwealth Mag. Address: United States Mission to Organization for Economic Cooperation and Development, APO New York 09777.

JONES, PROF. DAN HENLEY, b. Amherstburg, Ont, June 17, 24; U.S. citizen; m. 46; c. 5. PSYCHOLOGY. A.B, Kentucky, 48, M.A, 49; Wayne, 52; Ph.D, Mich. State, 56. Instr. psychol, Gen. Motors Inst, 51, coordinator referral counseling, 52, reading improv, 53-56, asst. head dept. psychol, 54-56; from assoc. prof. to PROF. PSYCHOL, DETROIT, 56- With UN Int. Labor Off, Cent. Labor Inst, Bombay, India, 62-63. Consult. psychologist, Ethyl Corp, 56- Psychol. Asn. Development of industrial psychologists; industrial executive development; measurement and training in creativity. Publ: Reading improvement in industry; Scientific method in training industrial executives, Gen. Motors Eng. J. Address: Dept. of Psychology, 343 Briggs Bldg, University of Detroit, Detroit, Mich. 48221.

JONES, DR. DANIEL BURR, b. Omaha, Nebr, Aug. 20, 22; m. 46; c. 2. HUMAN FACTORS ENGINEERING, OPERATIONS RESEARCH. B.A.E, Florida, 43; M.S, Tulane, 50; Ph.D.(psychol), Missouri, Kansas City, 65. Sr. scientist, Opers. Res, Inc, 63-66; CHIEF HUMAN FACTORS ENG. BR, MISSILE & SPACE SYSTS. DIV, McDONNELL-DOUGLAS CORP, 66- U.S.A, 43-63, Lt. Col. Psychol. Asn; Human Factors Soc; Acad. Polit. & Soc. Sci. Weapons systems effectiveness analysis and systems effectiveness; mathematical modeling; leadership and decision making processes. Publ: Co-auth, Problems in military leadership, U.S. Army Artil. Sch, 51; New developments human factors program, Bur. Naval Personnel, 64; auth, Quantification in human factors engineering, Ann. Reliability & Maintainability, 67. Address: A2-260, Missile & Space Division, McDonnell-Douglas Corp, 3000 Ocean Park Blvd, Santa Monica, Calif. 90405.

JONES, DR. DELMOS J, b. Birmingham, Ala, July 12, 36; m. 57; c. 2. ANTHROPOLOGY. B.A, San Francisco State Col, 59; M.A, Arizona, 62; Ph.D. (anthrop), Cornell, 67. ASST. PROF. ANTHROP, COLORADO, 67- Anthrop. Asn; Asn. Asian Studies. Cultural change and the problems of developing nations, especially in Southeast Asia. Publ: Settlement pattern and population movement among the Papago Indians, Kiva, Vol. 27, No. 4; The village as an autonomous unit of analysis. A Papago case study, Cornell J. Soc. Rels, 67; The multivillage community: village segmentation and coalescence in N. Thailand, Behav. Sci. Notes, (in press). Address: Dept. of Anthropology, University of Colorado, Boulder, Colo. 80302.

JONES, DR. DONALD R, b. Knoxville, Tenn, Nov. 23, 37. PSYCHOLOGY. B.S, Tennessee, 59, M.S, 60, Nat. Defense Ed. Act fel, 62, Ed.D, 64. Counsr, pub. schs, Tenn, 60-61; ASSOC. PROF. PSYCHOL, EAST TENN. STATE, 64-Lectr, Tennessee, summers 63, 64. Voc. consult, disability div, Soc. Security Admin, 65-67. Psychol. Asn; Personnel & Guid. Asn. Counseling; personality; psychological testing. Address: Dept. of Psychology, East Tennessee State University, Johnson City, Tenn. 37601.

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JONES, PROF. DOROTHY GARDNER, b. Ashland, Va, Nov. 20, 12. SOCIOLOGY. A.B, Randolph-Macon Col, 32; M.S.W, Col. of William & Mary, 38; Ph.D, North Carolina, 42. Supt. pub. welfare, Hanover County, Va, 34-38; rural sociologist, Va. Agr. Exp. Stat, 41-43; PROF. SOCIOL, WINTHROP COL, 43- Fel. Sociol. Asn; Acad. Polit. & Soc. Sci. Social work education; community study. Publ: Youth adjustments in a rural culture; co-auth, Housing in South Carolina: its socio-economic context, South Carolina Agr. Exp. Sta, 64; What is the best undergraduate preparation for social work education?, Soc. Work Ed. Reporter, 6/66. Address: Dept. of Sociology, Winthrop College, Box 42, Rock Hill, S.C. 29730.

JONES, DR. DOUGLAS N(ORIN), b. Concord, N.H, July 14, 33. ECONOMICS. B.A, New Hampshire, 55; M.A, Ohio State, 56, Mershon fel, 58-59, Ph.D.(econ), 60. Private practice, 51-55; asst. Ohio State, 55-56; economist, 56; opers. res. group, Ohio State, 59; instr. econ, Air Force Acad, 60-61, asst. prof, 61-62, assoc. prof, 62-65; CHIEF ECONOMIST, FED. FIELD PRESIDENTIAL CMT. DEVELOP. PLANNING IN ALASKA, 65- Mem, Inst. Strategic Studies, Ltd, Eng, 60. U.S.A.F, 56-65, Capt. Econ. Asn. Economics of civil atomic power; public utility and transportation economics; public finance; regional economics; national security economics. Publ: Art, economics and education, J. Higher Ed, 1/65; Extension of social control of utilities, Land Econ, 11/65; Alaska's economy, Alaska Rev, fall-winter, 66-67. Address: Federal Field Committee for Development Planning in Alaska, Suite 400, Hill Bldg, Anchorage, Alaska 99501.

JONES, DR. EARL I(VERSEN), b. Butte, Mont, Dec. 18, 19; m. 47; c. 3. PSYCHOLOGY. B.A, Utah, 41, M.A, 48; Ph.D, Washington (Seattle), 51. Res. psychologist, human resources res. center, U.S. Dept. Air Force, 51-52; head training requirements br, PERSONNEL RES. ACTIVITY, U.S. DEPT. NAVY, 52-53, dir. training res. dept, 53-62, dir. NAVY TRAINING RES. LAB, 62-, acting tech. dir, 66-67. U.S.N.R, 42-45. Psychol. Asn. Experimental and educational Psychology; learning. Address: U.S. Naval Personnel Research Activity, San Diego, Calif. 92152.

JONES, EDNA M(URIEL), b. Bergholz, Ohio, May 19, 18. PSYCHOLOGY, EDUCATION. B.S, Miami (Ohio), 48, M.A, 49; fel. Washington (Seattle), 52-55; Carnegie Inst. Tech, 56-58. Dean & dir. testing & counseling, pub. schs, Mont, 49-52; res. assoc, AM. INSTS. RES, 55-61, sr. res. scientist, 61-67, SCIENTIST, 67- Med.Serv.C, U.S.A, 42-46, Capt. AAAS; Psychol. Asn; Human Factors Soc. Systems design; human factors; job design for the mentally retarded; adult education. Publ: Co-auth, Guide to jobs for the mentally retarded, Am. Insts. Res, 64. Address: 1242 Pennsbury Blvd. S, Pittsburgh, Pa. 15205.

JONES, PROF. EDWARD E(LLSWORTH), b. Buffalo, N.Y, Aug. 11, 26; m. 47; c. 6. PSYCHOLOGY. A.B, Harvard, 49, fel, 52-53, Ph.D.(clin. psychol), 53. Asst, Harvard, 52-53; asst. prof. PSYCHOL, DUKE, 53-58, assoc. prof, 58-61, PROF, 61- Exec. ed, J. Personality, 54-56, ed, 56-62. U.S.A, 44-47. Fel. Psychol. Asn. Social perception; attitudes; influence through social interaction. Publ: Ingratiation, Appleton, 64; co-auth, Foundations of social psychology, Wiley, 67. Address: 2738 Sevier St, Durham, N.C. 27705.

JONES, DR. EDWARD R(ICKERT), b. St. Louis, Mo, Oct. 21, 21; m. 51. PSYCHOLOGY. A.B, Washington (St. Louis), 47, A.M, 48, Ph.D.(psychol), 54. Aviation psychologist, human resources res. labs, U.S. Dept. Air Force, 51-54; supvry. res. psychologist, Air Force Personnel & Training Res. Center, 54-58; MGR. DEPT. ENG. PSYCHOL, McDONNELL DOUGLAS CORP, ST. LOUIS, 59- Lectr, Northwestern, 58-60; prof. lectr, St. Louis, 64- Expert consult, Air Proving Ground Center, U.S. Air Force, 59-60. U.S.A, 43-46, Res, 48-58, Lt. AAAS; fel. Psychol. Asn; assoc. fel. Inst. Aeronaut. & Astronaut; Human Factors Soc. Engineering psychology applied to weapon systems, space vehicles, training devices and accidents. Publ: Man's integration into the Mercury capsule, in the training of astronauts; Development considerations in the design and use of simulation techniques; co-auth, The use of expert judgments in the development of flight simulator courses. Address: 9881 Wild Deer Rd, Ladue, Mo. 63124.

JONES, PROF. EDWARD S(AFFORD), b. Madura, S. India, Aug. 18, 88; nat; m; c. 3. PSYCHOLOGY. A.B, Oberlin Col, 10; Ph.D.(psychol), Chicago, 17. Asst. prof. PSYCHOL, Oberlin Col, 19-23; BUFFALO, 23-25, prof. & dir. off. personnel res, 25-60, dean students, 42-53, EMER. PROF, 60-; RES. ASSOC, DUKE, 60- Head psychol. dept, U.S. Army Univ, France, 45; Fulbright prof, Philippines, 49-50; emer. prof. Inter-Am. Univ. P.R, 64-66. Consult, Elon Col. Sanit. C, 17-19, Capt. Psychol. Asn. Techniques of counseling students; motivation; use of tests in personnel work. Publ: Improvement of study habit, Stewart, 34, 8th ed, 57. Address: 61 Oakwood Dr, Chapel Hill, N.C. 27514.

JONES, PROF. ELIOT, b. Grinnell, Iowa, Feb. 12, 87; m. 14; c. 1. ECONOMICS. A.B, Vanderbilt, 06; A.M, Harvard, 08, Ph.D, 13. Instr. ECON, Pennsylvania, 13-14; assoc. prof, Iowa, 14-16; prof, Texas, 16-17; assoc. prof, STANFORD, 17-20, prof, 20-52, EMER. PROF, 52- McKinley vis. prof, Illinois, 24-25; prof, Santa Clara, 52- Wells prize, Harvard, 14. Econ.Asn. (v.pres, 25, 31). Public utilities; federal power projects; the trust problem in the United States; transportation; corporation finance; investments. Address: 1100 Sharon Park Dr, Apt. 40, Menlo Park, Calif. 94025.

JONES, DR. ELVET GLYN, b. Victoria, B.C, May 19, 22; m. 54; c. 2. CLINICAL & COUNSELING PSYCHOLOGY. B.A, British Columbia, 46, M.A, 49; Ph.D, Minnesota, 58. Instr. psychol, Oregon State, 48-49, 50-51; Victoria Col.(B.C), 49-50; ed. psychol, Minnesota, 52-56; ASSOC. PROF. PSYCHOL, WEST. WASH. STATE COL, 57- Summer instr, Alberta, 51. Psychol. Asn; Personnel & Guid. Asn. Publ: Qualifications and responsibilities of counselors; Ethical considerations in psychological service, In: School psychology. Address: Dept. of Psychology, Western Washington State College, Bellingham, Wash. 98225.

JONES, DR. ENDSLEY TERRENCE, b. Kansas City, Mo, Aug. 25, 41; m. 66; c. 1. POLITICAL SCIENCE. B.S, St. Louis, 63; univ. fels, Georgetown, 63-65, Nat. Sci. Found. fel, 65-66, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, KANSAS STATE, 66- U.S.A.R, 66- Polit. Sci. Asn. Interrelationship of political and economic sectors in the United States, especially legislatures and local communities; applications of computers to political research. Publ: Congressmen and social scientists, Midwest Quart, 1/68; Congressional voting on Keynesian legislation, 1945-1964, West. Polit. Quart, 6/68. Address: Dept. of Political Science, Kansas State University, Manhattan, Kans. 66502.

JONES, PROF. E(RNEST) CARL, b. Atlanta, La, Feb. 17, 21; m. 44; c. 2. AGRICULTURAL ECONOMICS. B.S, Southwest. La. Inst, 41; M.S, La. State, 47; Ph.D, 62. Asst. prof. econ, LA. POLYTECH, 47-52, from assoc. prof. to PROF. ECON. & FINANCE, 52- U.S.A, 42-45. Econ. Asn. Extent of mechanization of large sugar cane farms in Louisiana. Publ: An economic appraisal of sources and expenditures of public revenues in Lincoln Parish, Louisiana. Address: Dept. of Economics & Finance, Louisiana Polytechnic Institute, Ruston, La. 71270.

JONES, DR. ETHEL BENGREE, b. Camden, Ark, Sept. 14, 30. ECONOMICS. A.B, Vassar Col, 52; fel. from Vassar Col. & Millis fel, Chicago, 52-53, Millis fel, 55-56, univ. fel, 56-57, Ph.D, 61. Asst. econ, Chicago, 56-57; assoc, Iowa State, 57-58; res. assoc, Chicago, 58-59; instr. econ. & statist, Roosevelt, 59-60; assoc. indust. specialist econ, indust. res. & exten. center, Arkansas, 60-62, sr. indust. specialist, 62-64, asst. dir, 64-65; ASSOC. PROF. ECON, GEORGIA, 65- Res. grants, Inter-Univ. Cmt. Econ. Res. South, 63-64, U.S. Dept. of Labor, 66-67. Mem. southwest manpower adv. cmt, U.S. Dept. Labor, 65. Econ. Asn; Regional Sci. Asn. Concept of underemployment; labor force participation rates. Publ: New estimates of hours of work per week and hourly earning, 1900-1957, Rev. Econ. & Statist, 11/63; An analysis of Arkansas' human resources for economic growth. part I: the measurement and description of the state's labor surplus, Indust. Res. & Exten. Center, Univ. Arkansas, 5/67; Feasibility study to identify the underemployed and to examine the labor market attachment of labor force nonparticipants in a low income area, Bur. Bus, Univ. Georgia, 7/67. Address: Dept. of Economics & Statistics, College of Business Administration, University of Georgia, Athens, Ga. 30601.

JONES, PROF. EUGENE WISE, b. Henderson, Ky, Feb. 26, 08; m. 35; c. 1. POLITICAL SCIENCE. B.A, Akron, 42, M.A, 49; Ph.D.(polit. sci), North Carolina, 55. Instr. SOC. SCI, Wingate Col, 47-50, 53-55; PROF. & HEAD DIV, WAYLAND BAPTIST COL, 55-, acting dean col, 66-67. U.S.A, 43-45. Polit. Sci. Asn; Am. Studies Asn. State government; constitutional law; public administration. Publ: The Texas Country Editor, World, 66; Lt. Col. John J. Polsley, W.Va. Hist; A new look at constitutional amendment, Southwest. Soc. Sci. Quart, 9/65. Address: 1315 Vernon St, Plainview, Tex. 79072.

JONES, DR. EVE S(PIRO), b. Toledo, Ohio, Dec. 28, 24; m. 43, 54, 58; c. 4. CLINICAL PSYCHOLOGY. B.Ph, Chicago, 45, S.B. & S.M, 49, Rockefeller fel, 51-53, Ph.D.(clin. psychol), 53. Clin. psychologist, Vet. Admin. Ment. Hyg. Clin, 52-53; Munic. Tuberc. Sanitarium, Chicago, Ill, 54-58; lectr. psychol, Chicago, 55-65; consult, 56-65; chief clin. psychologist, Community Ment. Health Serv, Los Angeles County Health Dept, 65-66; INSTR. PSYCHOL, LOS ANGELES CITY COL, 66- Res. neuroendocrinologist, Northwestern, 61. Consult, Orthogenic Sch, Chicago, 54; Asn. Family Living, 53-56; Sci. Res. Asn. Am, 56. AAAS; Psychol. Asn. Developmental psychopathology; individual assessment for executive and management positions; neuroendocrinology. Publ: Psychotherapy and personality change; Natural child rearing; How to be a mother in a fatherless home. Address: 444 S. Kingsley Dr, Los Angeles, Calif. 90005.

JONES, DR. FRANCIS D(UNN), b. Doniphan, Mo, Aug. 5, 23; m. 43; c. 4. CLINICAL PSYCHOLOGY. A.B, La. Col, 48; Ph.D.(clin. psychol), Washington (St. Louis), 51. Staff psychologist, Vet. Admin. Hosp, Little Rock, Ark, 51-52, chief psychologist, 52-55; PRES, SPRINGFIELD PSYCHOL. SERV, INC, 65- Clin. instr, med. sch, Arkansas, 53-55; private practice, 55-; lectr. adult ed. dept. & Breech Sch. Bus. Admin, Drury Col, 62- U.S.N, 43-46, Lt. Psychol. Asn; Asn. Mgt. Consults. Psychotherapy in schizophrenia; processes in psychotherapy; personality theory. Publ: Co-auth, Use of performance tests as a means of evaluation of psychotherapy, J. Consult. Psychol. & Experimental evaluation of group psychotherapy in schizophrenia, J. Abnorm. & Soc. Psychol. Address: 2652 Greenwood, Springfield, Mo. 65804.

JONES, DR. FRANCIS E(WING), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 65.

JONES, PROF. FRANK E(DWARD), b. Montreal, Que, Oct. 28, 17; m. 46; c. 2. SOCIOLOGY. B.A, McGill, 49, M.A, 50; Ph.D.(sociol), Harvard, 54. Chief res. div, Can. citizenship br, Dept. Citizenship & Immigration, Ont, 53-55; asst. prof. SOCIOL, McMASTER, 55-58, assoc. prof, 58-64, PROF, 64-, chmn. dept, 58-65. Vis. fel, Australian Nat. Univ, 61; vis. prof, McGill, 66-67. R.C.N, 40-45. Sociol. Asn; Can. Sociol. & Anthrop. Asn. Modern industrial societies; industrial sociology; socialization. Publ: An introduction to sociology; co-ed, Canadian society: sociological perspectives. Address: Dept. of Sociology, McMaster University, Hamilton, Ont, Can.

JONES, DR. FRANK P(IERCE), b. Appleton, Wis, Apr. 10, 05; m. 31; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Stanford, 26, M.A, 28; scholar, Chicago, 29-30; fels. & Ph.D.(Greek), Wisconsin, 37. Asst. gen. lit, Reed Col, 27-29; instr. Greek & Latin classics, Brown, 37-41, asst. prof, 41-44; private teaching & res. kinesthetic perception, 45-54; RES. ASSOC. EXP. PSYCHOL, INST. PSYCHOL. RES, TUFTS, 54-, PROF. CLASSICS, UNIV, 64-, lectr, 55-64. Prin. investr, U.S. Pub. Health Serv. res. grants, 56-64 & 66-67; U.S. Army Med. Res. & Develop. Lab. contract, 64-66. AAAS; Psychol. Asn; Philol. Asn. Kinesthetic perception of posture and movement; effect of preliminary set on the pattern of response; analysis of human movement by multiple-image photography and electromyography; computer analysis of classical verse. Publ: The influence of postural set on pattern of movement in man, Int. J. Neurol, 63; Method for changing stereotyped response patterns by the inhibition of certain postural sets, Psychol. Rev, 65; A binary-octal code for analyzing hexameters, Trans. Am. Philol. Asn, 66. Address: Institute for Psychological Research, Tufts University, Medford, Mass. 02155.

JONES, PROF. FRED M(ITCHELL), b. Pearl, Ill, Sept. 24, 05; m. 32; c. 1. ECONOMICS, MARKETING. Ph.D.(econ), Illinois, 35. PROF. MKT, ILLINOIS, 30- Mkt. Asn. Retailing; history of marketing; comparative marketing systems; economics of marketing. Publ: Co-auth, Economic development of the United States; Introduction to marketing; auth, Introduction to market management, Appleton, 64. Address: College of Commerce, University of Illinois, Urbana, Ill. 61801.

JONES, PROF. F(RED) NOWELL, JR, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

JONES, LT. COL. GORDON ANDREW, U.S.A, Clin. Psychol, see 10th ed, Soc. & Behav. Vols. Latest known address: 10019 Lake Steilacoom Dr, S.W, Tacoma, Wash. 98498.

JONES, PROF. HARDING, b. Chicago, Ill, June 1, 26; m. 60; c. 2. GEOGRAPHY. A.B, DePauw, 50; M.A, Colorado, 52; Northwestern, 54-66. Instr. geog, Buffalo, 56-63; regional planner, Midstate Regional Planning Agency, 64-65; ASSOC. PROF. GEOG, KUTZTOWN STATE COL, 65- Asn. Am. Geog. Publ: Co-auth, Wet tropics: limits and characteristics, Qm.C, U.S. Army, 9/57. Address: Dept. of Geography, Kutztown State College, Kutztown, Pa. 19530.

JONES, HAROLD B(YRON), JR, b. Millinocket, Maine, Mar. 8, 29; m. 54; c. 1. AGRICULTURAL ECONOMICS. B.S, Maine, 51; M.S, Connecticut, 56; Georgia, 64-68. Res. enumerator agr. econ, Maine, 50; ins. adjuster, Aetna Fire Ins. Co, Conn, 53-54; asst. agr. econ, Connecticut, 54-56; res. analyst, mkt. res, Int. Silver Co, 56-58; AGR. ECONOMIST, FIELD OFF, U.S. DEPT. AGR, New Hampshire, 58; EXP. STA, GEORGIA, 58- Cert. merit, U.S. Dept. Agr, 60. U.S.A.F, 51-53. Agr. Econ. Asn. Poultry and egg marketing research; economics of marketing commercial eggs; economics of further-processed products. Publ: Economies of scale in commercial egg packing plants, 9/64 & Vertically integrated methods of producing and marketing eggs, 5/66, Agr. Exp. Sta. Bull; New directions for marketing research—decision making process, Proc. South. Agr. Workers Asn, 2/67. Address: College Experiment Station, University of Georgia, Athens, Ga. 30601.

JONES, DR. HERSHEL F(EDERMAN), Econ, see 10th ed, Soc. & Behav. Vols.

JONES, DR. HOMER, b. Ainsworth, Iowa, June 25, 06. ECONOMICS. A.B, Iowa, 27, A.M, 28; fel, Brookings Inst, 34-35; Ph.D, Chicago, 49. Asst. chief div. res. & statist, Fed. Deposit Ins. Corp, 35-42, chief, 45-46; div. invest. & res, Off. Alien Property Custodian, 42-44; dir. clearing off. for. transactions & reports, For. Econ. Admin, 44-45; economist, Cmt. Econ. Develop, 46-49; chief consumer credit & finances sect, bd. governors, Fed. Reserve Syst, 49-58; V.PRES. RES, FED. RESERVE BANK OF ST. LOUIS, 58- Am. Econ. Asn; Statist. Asn; Finance Asn; fel. Royal Econ. Soc. Monetary theory and policy; principles of consumer credit; consumer surveys; fiscal policy; facilitating the flow of savings into private investment. Publ: Insurance of bank deposits in the United States of America, Econ. J; The flow of savings & Investment in equities by life insurance companies, J. Finance. Address: Research Dept, Federal Reserve Bank, P.O. Box 442, St. Louis, Mo. 63166.

JONES, DR. H(OUSTON) G(WYNNE), U.S. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JONES, PROF. HOWARD L(EWIS), b. Sidell, Ill, Dec. 1, 97; m. 27; c. 2. STATISTICS, ACCOUNTING. B.A, Illinois, 23. Clerk, acct. dept, Ill. Bell Tel. Co, 23-24, acct, 24-31, supv. acct, 31-42, supvr. revenue results, 42-47, area supvr. results, 47-51, gen. supvr. statist, 51-58; instr. STATIST, GRAD. SCH. BUS, CHICAGO, 44, prof, 58-63, EMER. PROF, 63- Sr. statist. training adv, Govt. Turkey, 64-65; statist. adv, Repub. China, Taiwan, 65-66. U.S.A, 17-19. Fel. Statist. Asn; fel. Soc. Qual. Control; Economet. Soc; Inst. Math. Statist. Scientific sampling; administrative applications of sta-

tistical quality control; analysis of variance. Publ: Exact lower moments of order statistics in small samples from a normal distribution & Formulas for the group sequential sampling of attributes, Ann. Math. Statist; Linear regression functions with neglected variables, J. Am. Statist. Asn. Address: University of Chicago Graduate School of Business, Chicago, Ill. 60637.

JONES, DR. JAMES A, b. Boston, Mass, Mar. 7, 32; m. 56; c. 4. SOCIOLOGY. A.B, Harvard, 53; John Hay Whitney fel, Columbia, 54-55, M.A, 55, Ph.D. (sociol), 65. Res. asst. med. sociol, Bur. Appl. Soc. Res, Columbia, 54-58, lectr. sociol, 57-59, res. assoc. juvenile delinquency, res. center, Sch. Soc. Work, 58-62, lectr. soc. work, 60-62; res. dir. anti-poverty res, Harlem Youth Opportunities Unlimited, 62-65; ASSOC. PROF. SOC. WORK, GRAD. SCH. SOC. WORK, N.Y. UNIV, 65-, RES. ASSOC. JUVENILE DELINQUENCY, 66- Res. assoc, Fordham, 66- Consult, U.S. Dept. Labor, 65-66; Off. Econ. Opportunity, 65- Prog. adv. cmt, Center Urban Ed. & adv. cmt, Info. & Retrieval Center on the Disadvantaged, Yeshiva, 66-; bd. dirs, Design & Evaluation, Inc, 67- Sociol. Asn; Acad. Polit. & Soc. Sci. Social science methodology; juvenile delinquency; poverty programs; educational systems. Publ: Co-auth, The prevention and control of juvenile delinquency through expanding opportunities, Mobilization for Youth, 61 & Youth in the ghetto?, Harlem Youth Opportunities, 62. Address: Graduate School of Social Work, New York University, 15 Washington Place, New York, N.Y, 10003.

JONES, JAMES BOYD, Econ, see 10th ed, Soc. & Behav. Vols.

JONES, DR. JAMES P(ATRICK), b. Scottsbluff, Nebr, Oct. 4, 21; m. 45; c. 2. URBAN GEOGRAPHY. A.B, Nebr. Wesleyan, 48; M.A, Clark, 51; Boston, 55-60; D.S.S.(metrop. studies), Syracuse, 65. Dir. soc. studies, Stoughton High Sch, 50-53; chmn. dept. geog, Mass. State Col. Salem, 53-56; CHMN. DEPT. GEOG. & GEOL, MASS. STATE COL. BOSTON, 56- Lectr, Metrop. Boston, 64-; dir, Pilot Urban Studies Workshop, 67. Chmn. sec. sch. needs, Braintree, Mass, 65-67; mem, State Cmt. Soc. Studies. U.S.C.G, 42-45. Am. Asn. Geog. Metropolitan studies; problems of metro environment for television and as course outline for secondary schools. Publ: The metropolitan environment, 67 & Man's changing world, 67, WHDH-TV, Boston; co-auth, Workbook in physical geography, W.C. Brown, (in press). Address: Dept. of Geography & Geology, Massachusetts State College at Boston, 625 Huntington Ave, Boston, Mass. 02115.

JONES, PROF. JAMES W(OODERD), b. Hartman, Ark, Jan. 14, 31; m. 52; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Col. Ozarks, 53; M.Ed, Arkansas, 58, Ed.D.(psychol, sec. ed), 64. Instr, pub. schs, Ark, 53-54, 57-59, asst. prin. & instr, 59-62; asst. sec. ed, Arkansas, 56-57, 62-63; assoc. prof. PSYCHOL, NORTHEAST. STATE COL, 63-66, PROF, 66- Ed. consult, Muskogee Schs, Okla, 65-66; Gentry Pub. Schs, Ark, 66-67. U.S.A, 54-56. Nat. Coun. Measurement in Ed. Principles of human behavior and their application to the educative process. Publ: Changes in attitudes of students enrolled in Education 204, J. Teacher Ed, 6/65; Remedial teaching—what is it?, Okla. Teacher, 2/67; A realistic approach to individualized instruction in reading, Okla. Reader, fall 67. Address: Dept. of Psychology, Northeastern State College, Tahlequah, Okla. 74464.

JONES, PROF. J(OHN) A(LAN), b. Wilbur, Wash, Nov. 2, 23; m. 48; c. 2. CULTURAL ANTHROPOLOGY. B.A, New Mexico, 48; Ph.D.(anthrop), Columbia, 50. Consult. Indian land claims, U.S. Dept. Justice, 50-53; asst. prof. ANTHROP, Indiana, 53-57, chmn. dept, 54; asst. prof, ARIZONA STATE, 61-62, assoc. prof, 62-65, PROF, 65- U.S.A, 43-46. Fel. AAAS; fel. Anthrop. Asn. General anthropological theory; cultural anthropology and ethnohistory of North America. Publ: Sun dance of the Northern Ute, Anthrop. Papers; Reinterpretation of Ute-Southern Painte classifications, Anthrop. Quart; Problems, opportunities and recommendations, Ethnohistory. Address: Dept. of Anthropology, Arizona State University, Tempe, Ariz. 85281.

JONES, PROF. J(OHN) CHARLES, b. Library, Pa, Mar. 18, 21; m. 44; c. 4. EDUCATIONAL PSYCHOLOGY. A.B, Bucknell, 42; M.S, Cornell, 50, Ph.D. (ed. psychol), 53. Asst. prof. child develop. & family rels, Illinois, 53-54; ED, BUCKNELL, 54-61, PROF, 61-, chmn. dept, 58-63. Ford Found. res. grant, 58-61; vis. lectr, West. Wash. State Col, 62-63; U.S. Off. Ed, res. grant, 65; sr. lectr, Victoria, N.Z, 68. Dir, Upper Susquehanna Valley Prog. Corp. Res. U.S.A, 42-46. AAAS; Psychol. Asn. Human learning; verbal behavior; concept formation. Publ: Learning, Harcourt, 67; Learning theory and instruction, Nat. Asn. Ed. Broadcaster, 66; co-auth, A comparison of pupil achievement after one and one-half and three years in non-graded program, J. Ed. Res, 67. Address: Dept. of Education, Bucknell University, Lewisburg, Pa. 17837.

JONES, DR. JOHN HALL, b. Graves Co, Ky, Aug. 5, 06; m. 31; c. 2. PSYCHOLOGY. A.B, Union (Tenn), 29; M.R.Ed, Andover Newton Sem, 38; Ed.D, Oklahoma, 45. Dir. personnel & pub.rels. & prof.psychol, Okla. Baptist Univ, 40-44; head psychol. dept. & dir. counseling serv, Howard Col, 45-54; CONSULT. PSYCHOLOGIST, 54- Lectr. Fel. AAAS; fel. Psychol. Asn. Personality adjustment; family relations; psychology and religion. Address: 326 N.E. 26th, Miami, Fla. 33137.

JONES, PROF. J(OHN) P(AUL), b. Mankato, Minn, Dec. 1, 98; m. 24; c. 2. ECONOMICS. A.B, Coe Col, 21; A.M, Iowa, 22, Ph.D, 28; Pennsylvania, 26-27. Asst. prof. bus. admin, Lehigh, 27-29; ECON, California, 29-33; asst. prof, SOUTH DAKOTA, 36-39, assoc. prof, 39-41, PROF, 41- U.S.A, 17-19. Insurance; real estate. Address: 200 Forest Ave, Vermillion, S.Dak. 57069.

JONES, DR. KENNETH J, b. Cambridge, Mass, Sept. 15, 34; m. 66. EDUCATION, STATISTICS. B.S, Mass. Inst. Tech, 56; M.A, Harvard, 57, Ed.D, 63. Instr. chem. Thayer Acad, 57-61; lectr. ed, grad. sch. ed. & res. assoc. psychiat, sch. med, Harvard, 63-66; ASSOC. PROF. ED, HELLER SCH, BRANDEIS, 66- Consult, Action for Boston Community Develop, 63-67. Psychol. Asn; Statist. Asn; Psychomet. Soc. Multivariate analysis and computer applications. Address: Millers Hill, Dover, Mass. 02030.

JONES, DR. LAMAR BABINGTON, b. Moss Point, Miss, Aug. 24, 35; m. 58; c. 2. ECONOMICS. B.A, La. Polytech, 59; M.A, La. State, 61; H.B. Earhart fel, California, Berkeley, 61-62; Ph.D.(econ), Texas, 65. Asst. prof. ECON. Kansas State, 65-66; Va. Polytech, 66-67; ASSOC. PROF, LA. STATE, 67- Summers, Ford Found dissertation grant, 64 & consult, Equal Employment Opportunity Cmn, 66. U.S.N, 53-55. Econ. Asn; Indust. Rels. Res. Asn. Manpower economics, especially agricultural labor. Publ: Co-auth, Some observations on the agricultural labor market, Indust. & Labor Rels. Rev, 7/65; auth, Public law 78, Labor Law J, 2/67; Farm labor: shortage or surplus, Southwest. Soc. Sci. Quart, 3/67. Address: Dept. of Economics, Louisiana State University, Baton Rouge, La. 70803.

JONES, DR. LEONA WISE, b. Leipsic, Ohio, July 16, 98; m. 20, 51; c. 1. PERSONNEL PSYCHOLOGY. B.S, Ohio State, 19, M.A, 33; Ph.D.(personnel), Northwestern, 44. Teacher, high sch, Ohio, 19-24, 27-31, dean girls, 31-36; dean women, Ill. Wesleyan, 36-46, assoc. prof. ed, 41-46; dean women, Ohio Wesleyan, 46-49; prof. personnel admin. & dean women, Ohio, 49-52; prof. personnel psychol. & dean women, Denison, 52-57, res. psychologist, sch. med, Hopkins, 57-65, summer, lectr, 59; RES. & WRITING, 65- Specialist student personnel servs, U.S. Dept. Army, Japan, 51-52; ed. consult, 65. Mem, Am. Bd. Counseling Servs, 57-62, secy-treas, 57-61. Personnel & Guid. Asn. Personnel psychology and administration; annotated bibliography of publications by or about women in science selected for historical value and achievement record. Publ: Co-auth, Studies on human figure drawings: a review of the literature, Psychiat. Quart; Studies in figure drawings: structural and graphic characteristics, Psychiat. Quart, Suppl. Part I, 64; Studies on figure drawings: manual of instructions for coding, Psychiat. Quart, Suppl. Part II, 65. Address: 635 Elm St, South Dartmouth, Mass. 02748.

JONES, DR. LONZO, b. Davis City, Iowa, Nov. 22, 95; m. 14; c. 3. PSYCHOLOGY. A.B, Iowa, 21, M.A, 24, Ph.D.(psychol), 29. Prof. philos. & dean men, Graceland Jr. Col, 21-23, prof. psychol. & dean col, 24-28; asst, Iowa, 23-24, asst. prof. psychol. & asst. dean men, 28-39; dean faculty & dir. student personnel, Cent. Mo. State Teachers Col, 39-46; from prof. psychol. & coordinator student personnel serv. to EMER. DEAN STUDENT PERSONNEL SERV, INDIANA STATE, 46- Chmn. teacher ed, child growth & develop. fel, Chicago, 43-44; prof, Biarritz Am. Univ, France, 45-46. Teachers Col. Personnel Asn.(pres, 46-48, secy-treas, 48-50). Personnel administration; personnel practices in teachers colleges. Address: Dept. of Education, Indiana State University, Terre Haute, Ind. 47809.

JONES, PROF. LYLE V(INCENT), b. Grandview, Wash, Mar. 11, 24; m. 49; c. 3. PSYCHOLOGY. B.S, Washington (Seattle), 47, M.S, 48; Ph.D.(psychol), Stanford, 50. Acting assoc. psychol, Washington (Seattle), 47-48; asst, Stanford, 48-50; Nat. Res. Coun. fel, Chicago, 50-51, asst. prof, 51-57, dir. psychomet. lab, 52-57; assoc. prof. PSYCHOL, NORTH CAROLINA, CHAPEL HILL, 57-60, PROF, 60-, DIR. PSYCHOMET. LAB, 57- Vis. assoc. prof, Texas, 56. Mem. behav. sci. study sect, Nat. Insts. Health, 62-66, comput. res. study sect, 66-70. U.S.A, 43-46. AAAS; Psychol. Asn; Psychomet. Soc.(pres, 62-63); Statist. Asn; Psychonomic Soc; Asn. Comput. Mach. Quantitative methods in psychology. Publ: Co-auth, The measurement and prediction of judgement and choice, Holden-Day, 68. Address: L.L. Thurstone, Psychometric Lab, University of North Carolina, Chapel Hill, N.C. 27514.

JONES, DR. MACK HENRY, b. Oakdale, La, Jan. 13, 37; m. 64; c. 1. POLITICAL SCIENCE. A.B, Texas Southern, 62; A.M, Illinois, Urbana, 64, Ph.D. (polit. sci), 68. Asst. prof. POLIT. SCI, Texas Southern, 66-67; ASSOC. PROF, ATLANTA, 67- Ford Found res. grant, 68-69. U.S.A, 54-57. Polit. Sci. Asn; Econ. Asn; Acad. Polit. & Soc. Sci. Address: Dept. of Political Science, Atlanta University, Atlanta, Ga. 30314.

JONES, PROF. MANLEY H(OWE), b. Alta, Can, June 30, 04; U.S. citizen; m. 28; c. 3. BUSINESS MANAGEMENT. A.B, Grinnell Col, 26; M.B.A, Harvard, 47, D.C.S.(bus. admin), 50. Lectr. BUS. MGT, ILL. INST. TECH, 48-50, assoc. prof, 50-59, PROF, 59- Vis. prof, Aziendale Grad. Bus. Sch, Turin, Italy, 57; grad. bus. sch, Barcelona & Univ. Navarra, 66. Consult. economist, Armour & Co, 50-54. Mkt. Asn; Acad. Mgt. Executive behavior; communication in marketing. Publ: Executive decision making, Irwin, 57 & 62; The marketing process: an introduction, Harper, 65. Address: Dept. of Business & Economics, Illinois Institute of Technology, Chicago, Ill. 60616.

JONES, DR. MARGARET HUBBARD, b. Fairfield, Conn, Apr. 23, 15; m. 39; c. 1. PSYCHOLOGY. A.B, Vassar Col, 37; M.A, Hobart Col, 38; Ph.D. (psychol), California, Los Angeles, 45. Instr. psychol, Alabama, 44; State Col. Wash, 47-48, asst, 48-49; res. assoc, DEPT. PSYCHOL, CALIFORNIA, LOS ANGELES, 49-63, RES. PSYCHOLOGIST, 63-, DEPT. ED, 66-, lectr, 64-67, assoc. res. psychologist, Dept. Eng, 50-63, res. psychologist, 63-66. Fel. Psychol. Asn. Perception; psycholinguistics; cognitive development; educational psychology. Publ: Co-auth, Handbook of employee selection, McGraw, 50, Physiological psychology, Holt, 56 & Visual and auditory information processing in children and adults, Science, 156: 986-988. Address: Dept. of Education, University of California, Los Angeles, Calif. 90024.

JONES, DR. MARSHALL B(USH), b. Port Chester, N.Y, Jan. 25, 28; m. 52. PSYCHOLOGY. B.A, Yale, 49; M.A. & Ph.D.(psychol), California, Los Angeles, 53. Res. psychologist, U.S. Naval Sch. Aviation Med, 56-62; ASST. PROF. PSYCHIAT. & PSYCHOL, COL. MED, FLORIDA, 62- Private res, 55- Med.Serv.C, U.S.A, 53-55, Lt.(jg). Psychol. Asn. Behavior genetics; correlational analysis; etiology of schizophrenia. Publ: Molar correlational analysis, U.S. Naval Sch. Aviation Med, 60; Practice as a process of simplification, Psychol. Rev, 62. Address: Dept. of Psychiatry, University of Florida, Gainesville, Fla. 32601.

JONES, PROF. MARSHALL E(LMER), b. St. Louis, Mo, Jan. 3, 06; m. 29; c. 2. SOCIOLOGY. A.B, Washington (St. Louis), 26; A.M, Harvard, 34, Ph.D, 36. Assoc. prof. econ. & sociol, Tusculum Col, 38-41; PROF. SOCIOL, WYOMING, 41- Prof, American Univ, Cairo, 48-49. Sociol. Asn; fel. Soc. Criminol. Criminology; social pathologies and theory. Publ: Basic sociological principles. Address: University of Wyoming, Box 3293 University Station, Laramie, Wyo. 82070.

JONES, DR. MARSHALL R(OBERTSON), b. Charter Oak, Iowa, June 5, 10; m. 37; c. 2. PSYCHOLOGY. A.B, Drake, 32, A.M, 35; Illinois, 35-37; Ph.D.(psychology), Yale, 40. Asst. elem. psychol, Illinois, 35-37; Yale, 37-39; med. col, Cornell, 39-40, instr. psychol, 40-43; asst. prof. & counsr, Iowa, 46-49; prof. psychol. & dir. clin. psychol. training prog, Nebraska, 49-63; CHMN. DEPT. PSYCHOL, MIAMI (FLA), 63- Serv, consult, Vet. Admin. Hosps, Iowa, S.Dak. & Nebr, 48-63; consult, Nebr. Dept. Rehab, 61-65; Vet. Admin, Fla, 67- U.S.N.R, 43-46. Fel. Psychol. Asn. Personality; development. Address: Dept. of Psychology, University of Miami, Coral Gables, Fla. 33124.

JONES, DR. MARTIN V, b. La Salle, Ill, June 23, 18; m. 47; c. 3. ECONOMICS. M.B.A, Chicago, 40, Ph.D, 44. ECONOMIST, War Assets Admin, 46-48; Army Qm. Indust. Mobilization Planning Off, 48-60; MITRE CORP, 60- Economist, League of Nations, 40-41; Cmt. Econ. Develop, Ill, 44-46. Econ. Asn. Military economic research, especially military systems cost analysis. Publ: Systems cost analysis: a management tool for decision making, 64; Estimating methods and data sources used in costing military systems, 65 & An approach to command and control systems costing, 67, Mitre Corp. Address: Systems Analysis Dept, Mitre Corp, Bedford, Mass. 01730.

JONES, PROF. MARY COVER, Psychol, see 10th ed, Soc. & Behav. Vols.

JONES, PROF. MOLLY MASON, b. Madison, Wis, Nov. 4, 11; m. 41; c. 2. CHILD PSYCHOLOGY. Ph.B, Chicago, 33; M.A, Toronto, 35, Ph.D.(psychol), 40. Asst, coop. nursery sch, Chicago, 33-34; instr. inst. child study, Toronto, 35-39, asst. psychol, univ, 35-38; instr. PSYCHOL, SCRIPPS COL, 39-43, assoc. prof, 43-57, PROF, 57-, dir. Mary B. Eyre Nursery Sch, 39-67. Putnam fel, Radcliffe Col, 49-50. Psychol. Asn; Nat. Asn. Ed. of Young Children. Child guidance; parent counseling. Publ: Guiding your child from two to five, Harcourt, 68. Address: Dept. of Psychology, Scripps College, Claremont, Calif. 91711.

JONES, PROF. NELSON F, b. Hattiesburg, Miss, Feb. 5, 28; m. 54; c. 2. PSYCHOLOGY. B.A, Tulane, 55; M.A, Northwestern, 57, Ph.D.(psychol), 59. Asst. prof. PSYCHOL, med. center, Colorado, 60-65; assoc. prof, Arizona, 65-67; PROF, DENVER, 67- Consult. psychol, U.S. Vet. Admin, 65- U.S.A, 46-53, Sgt. Psychol. Asn. Clinical judgment; social psychology of mental illness. Publ: Co-auth, Experimental investigation of clinical judgement, In: Experimental foundations of clinical psychology, Basic Books, 62; Patient attitudes as related to social class and other variables concerned with hospitalization, J. Consult. Psychol, 64; Dimensions and consistency of clinical judgement as related to judges' level of training, J. Nervous & Ment. Diseases, (in press). Address: Dept. of Psychology, University of Denver, Denver, Colo. 80210.

JONES, DR. OLIVER, b. Altoona, Pa, Dec. 9, 22; m. 42; c. 5. ECONOMICS, STATISTICS. B.A, St. Francis Col.(Pa), 48; M.A, Pa. State, 49, Ph.D, 61. Tech. asst, bd. governors, Fed. Reserve Syst, 51-55; sr. financial economist, Fed. Reserve Bank of Cleveland, 55-59; assoc. res. economist, California, Los Angeles, 59-61; economist, Stanford Res. Inst, 61-62; dir. res, Mortgage Bankers Asn. Am, 62-67; CONSULT. ECONOMIST, 67- Consult, Fed. Nat. Mortgage Asn, 67- U.S.A, 42-45. Econ. Asn; Finance Asn; Statist. Asn; Asn. Bus. Econ. Money, credit and banking; analysis of the market for residential mortgages; financial analysis and market studies. Publ: Secondary market for residential mortgages; Development of an effective secondary mortgage market, Proc. Am. Finance Asn. Address: 10417 Burnt Ember Dr, Silver Spring, Md. 20903.

JONES, DR. ORA M, Psychol, see 10th ed, Soc. & Behav. Vols.

JONES, PROF. PAUL MARCUS, b. Grant Co, Okla, July 16, 03. ACCOUNTING. A.B, West. State Col. Colo, 28; M.S, Denver, 36; La. State, 41-42; Colorado, 48. Asst. prof. bus. admin, Miss. State Col, 37-41; instr. acct, La. State, 41-42; assoc. prof. bus. admin, Wichita, 42-45; secy, United Bldg. & Loan Asn, Wichita, Kans, 45-48; assoc. prof. BUS. ADMIN, COLO. COL, 48-57, PROF, 57- Am. Acct. Asn. Objectives of standard costs; personnel policies and practices survey. Address: Dept. of Business Administration, Colorado College, Colorado Springs, Colo. 80903.

JONES, DR. PETER d'A, Econ. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JONES, PROF. R. STEWART, b. Omaha, Nebr, June 10, 18; m. 42; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Omaha, 46; M.A, Ohio State, 49, Ph.D. 50. Asst. instr. psychol, Omaha, 46-47; ED. PSYCHOL, Ohio State, 47-50; from asst. prof. to PROF. & CHMN. DEPT, ILLINOIS, URBANA, 50- U.S.A, 41-46, Capt. Fel. Psychol. Asn. Psychology of learning, especially higher mental processes. Publ: Co-auth, Educational psychology. Address: College of Education, University of Illinois, Urbana, Ill. 61801.

JONES, PROF. RALPH C(OUGHENOUR), b. Geff, Ill, Aug. 11, 97; m. 31; c. 1. ECONOMICS. B.S, Illinois, 22, M.S, 23; Ph.D.(econ), Yale, 29. Instr. acct, YALE, 24-27, asst. prof, 27-32, assoc. prof, 32-52, PROF. ECON, 52- Vis. prof, California, Los Angeles, 50; prof. accounting, Northeastern, 66- Summers, Michigan, 59-62. Am. Acct. Asn; Nat. Asn. Acct; Financial Exec. Inst. Accounting. Publ: Price level changes and financial statements, case studies of four companies; Effects of price level changes on business income, capital, and taxes. Address: Dept. of Economics, Yale University, 37 Hillhouse Ave, New Haven, Conn. 06520.

JONES, PROF. RALPH GRAY, b. Woodville, Miss, Dec. 3, 11; m. 50. POLITICAL SCIENCE. B.A, La. State, 35, M.A, 38; Duke, 39-41; Ph.D, Cambridge, 49; Barrister, Gray's Inn, 50. Instr. polit. sci, Millsaps Col, 37-42; from asst. prof. to PROF. GOVT, Arkansas, 50-65; TEX. TECH. COL, 65- Vis. assoc. prof, Minnesota, 55-56; holder int. law chair, Naval War Col, 56-57. U.S.A, 42-45, Sgt. Polit. Sci. Asn; Soc. Int. Law. Diplomatic immunity. Publ: Termination of diplomatic immunity, In: British year book of international law. Address: Dept. of Government, Texas Technological College, Lubbock, Tex. 79409.

JONES, PROF. REECE A(LEXANDER), b. Coalfield, Tenn, Dec. 29, 16; m. 42; c. 2. GEOGRAPHY. B.S, Tennessee, 39, M.S, 40; Ph.D, North Carolina, 54. From instr. to PROF. GEOG, WESTERN ILLINOIS, 47-, head dept, 47-63. Asn. Am. Geog; Nat. Coun. Geog. Ed. South America; population geography. Publ: The Geography of Peru, The Councilor, 64; co-auth, Population geography, In: A handbook for geography teachers, Nat. Coun. Geog. Ed, 66. Address: 216 N. Normal, Macomb, Ill. 61455.

JONES, DR. REESE T(ASKER), b. Philadelphia, Pa, June 7, 32; m. 56; c. 3. PSYCHIATRY. B.S, Michigan, 54, M.D, 58. Res. psychiat, LANGLEY PORTER NEUROPSYCHIAT. INST, 62-67, STAFF PSYCHIATRIST, 67- Nat. Inst. Ment. Health res. career develop. award, 67-; asst. prof. in res, med. center, California, San Francisco, 67- U.S.P.H.S, 59-61, Sr. Asst. Surg. Psychiat. Asn. Objective indices of psychopathology; human neurophysiology; psychopharmacology. Publ: Co-auth, Auditory evoked response as a diagnostic and prognostic measure in schizophrenia, 65 & Perceptual dysfunction in schizophrenia clinical and auditory evoked response findings, 66, Am. J. Psychiat. Address: Langley Porter Neuropsychiatric Institute, 401 Parnassus Ave, San Francisco, Calif. 94122.

JONES, PROF. RICHARD MATTHEW, b. New Brunswick, N.J, June 10, 25; m. 57. CLINICAL PSYCHOLOGY. A.B, Stanford, 50; Ph.D, Harvard, 56. Instr. PSYCHOL, Smith Col, 56-57; asst. prof, BRANDEIS, 57-61, from assoc. prof. to PROF, 61- Staff psychologist, Judge Baker Guid. Center, 56-58; res. assoc, Harvard, 57-58. U.S.C.G, 43-46. Psychol. Asn; Orthopsychiat. Asn; Group Psychother. Asn; Acad. Psychother. Experimental education; psychology of dreams; projective testing; psychotherapy. Publ: Application of psychoanalysis to education; Ego synthesis in dreams; Model of transitional thought organization, Am. Imago. Address: Dept. of Psychology, Brandeis University, Waltham, Mass. 02154.

JONES, PROF. ROBERT A(LFRED), b. Bayonne, N.J, Feb. 14, 28; m. 56; c. 1. PSYCHOLOGY. A.B, Catholic Univ, 51, M.A, 53, Ph.D, 57. From staff psychologist to res. coordinator clin. psychol, Vet. Admin. Regional Off, N.J, 57-60; asst. prof. PSYCHOL, Rutgers, 60-62; assoc. prof, SETON HALL, 62-66, PROF, 66-, CHMN. DEPT, 62- Consult, Assoc. Cath. Charities, 60-; mem. bd. psychol. exam, N.J. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 46-47. AAAS; Psychol. Asn. Cognitive and emotional areas of schizophrenic and neurotic subjects; psychotherapy. Publ: Some effects of emotion on the use of words by schizophrenics. Address: Dept. of Psychology, Seton Hall University, South Orange, N.J. 07079.

JONES, DR. ROBERT CHARLES, b. Philadelphia, Pa, June 15, 28; m. 51; c. 3. STATISTICS. B.S, Pennsylvania, 49, M.B.A, 55, Ph.D.(econ), 58. Instr. STATIST, PENNSYLVANIA, 54-58, ASST. PROF, 58- U.S.A, 51-53, 1st Lt. Econ. Asn; Statist. Asn; Economet. Soc. Statistical methods; consumer expenditures studies. Publ: Co-ed, Consumption and saving, Vol. I, II, co-auth, Concept of saving, in Vol. II; auth, Transitory income and expenditures on consumption categories, Am. Econ. Rev. Address: Dept. of Statistics, Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

JONES, DR. ROBERT EUGENE, b. Cincinnati, Ohio, June 1, 20; m. 48; c. 1. CLINICAL PSYCHOLOGY, COUNSELING. A.B, Cincinnati, 43; U.S. Pub. Health Serv. & Lazarus scholars. & Ph.D.(psychol), Ohio State, 54. Prod. planner, Wright Aeronaut. Corp, 41-42; jr. psychologist, Off. Strategic Serv, 44-46; psychol. appraiser, guid. center, Harvard, 46; clin. psychologist, Vet. Admin. Hosp, Chillicothe, Ohio, 46-48, voc. psychologist, 48-50; res. assoc. & asst. prof. clin. psychol, Illinois, 54-55; chief clin. psychologist, Vet. Admin. Ment. Hyg. Unit, Huntington, W.Va, 55-58; chief psychologist, Vet. Admin. Hosp, Danville, Ill, 58-64; CONSULT. PSYCHOLOGIST & CHMN. RES. CMT, DIV. CONSULT. PSYCHOL, NAT. INST. MENT. HEALTH, 64- Assoc. prof, Illinois, 58-; lectr, sch. med, Virginia, 64- Consult, group effectiveness res. lab, Illinois, 58-60; State Div. Voc. Rehab, 58-62. U.S.A, 42-46, Sgt. AAAS; Psychol. Asn. Criteria of adjustment; identification measurement and theory; theories of personality change. Publ: Assessment of men; Identification in terms of personal constructs, J. Consult. Psychol; co-auth, Interrelations among measures of personality adjustment in nonclinical populations, J. Abnorm. & Soc. Psychol. Address: 220 Seventh St. N.E, Charlottesville, Va. 22901.

JONES, DR. ROBERT G(RIFFITH), b. State College, Pa, Mar. 25, 36; m. 59; c. 2. PSYCHOLOGY. A.B, Davidson Col, 58; B.D, Yale, 61; U.S. Pub. Health Serv. fel, Duke, 63-64, Ph.D, 66. Psychiat. aide, psychiat. inst, Yale, 59-60, res. asst. to Dr. James E. Dittes, 60-61; res. asst. to Dr. Edward E. Jones, Duke, 61-63; asst. prof. psychol. & asst. dean students, Davidson Col, 64-65; asst. prof. SOC. PSYCHOL, LEHIGH, 65-68, ASSOC. PROF, 68- Nat. Sci. Found. res. grant, 67-69. Psychol. Asn; Statist. Asn; Soc. Sci. Study Relig. Interpersonal influence; social cognition. Publ: Co-auth, Tactics of ingratiation among leaders and subordinates in a status hierarchy, Psychol. Monogr, 63; Some conditions affecting the evaluation of a conformist, 63 & Optimum conformity as an ingratiation tactic, 64, J. Personality. Address: Dept. of Social Relations, Lehigh University, Bethlehem, Pa. 18015.

JONES, DR. ROBERT J(OHN), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

JONES, DR. ROBERT J(OSEPH), b. Harlingen, Tex, Sept. 8, 34; m. 64; c. 1. EDUCATIONAL PSYCHOLOGY. B.A, Texas, El Paso, 58; Ph.D.(ed. psychol), Austin, 64. Res. asst. psychologist, HumRRO, George Washington, 58-59; testing & counseling center, Texas, 59-61, res. assoc, lab. human behav, 61-63; staff specialist, California, Berkeley, 63-64; ASST. PROF. ED. RES, Washington (St. Louis), 64-65; Fla. State, 65-67; NOVA, 67- Adv, Univ. Chile, 63-64; consult, Ed. Planning Cmn, Venezuela, 67. Psychol. Asn; Ed. Res. Asn; Asn. Ed. Data Systs; Soc. Res. Child Develop. Educational field research including the application of systems analysis and operations research. Publ: Co-auth, Age-mate perceptions of intelligence, creativity and achievement, Perceptual & Motor Skills, 63; auth, Un estudio sobre la validez de algunas pruebas traducidas, 64 & Advantages of multivariate statistics in differentiating complex social groups, 67, Proc. Cong. Inter-Am. Soc. Psychol. Address: Education Research Center, Nova University, College Ave, Ft. Lauderdale, Fla. 33314.

JONES, PROF. ROBERT L(EON), b. Halstead, Kans, Sept. 6, 21; m. 44; c. 3. PSYCHOLOGY. B.A, Wichita, 42; M.A, Minnesota, 47, Ph.D.(psychol), 51. Instr. psychol, MINNESOTA, MINNEAPOLIS, 48-50, asst. dir, res. div, SCH. JOURNALISM, 50-51, DIR, 52-58, SCH, 58-, PROF. JOURNALISM, 58-, assoc. prof, 52-58. Acting chief intel. res. div, human resources res. inst, U.S. Dept. Air Force, 51. U.S.A.A.F, 42-46. Psychol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Mass communications; psychological warfare and human factor intelligence research; personnel selection and training. Publ: Methodological improvements in readership data gathering, A predictive and comparative study of journalism personnel & Small-city daily newspapermen, their abilities and interests, Journalism Quart. Address: 1596 Vincent, St. Paul, Minn. 55108.

JONES, DR. ROBERT WAYNE, b. Dallas, Tex, Sept. 24, 37. PSYCHOLOGY. B.S, Tulane, 58; M.A, La. State, 60; Ph.D.(psychol), Miami (Fla), 64. Res. instr. ophthal, sch. med, Miami (Fla), 63-66; ASST. PROF. PSYCHOL, EMORY, 66- Consult, Ga. Rehab. Center, Warm Springs, 66-; U.S. Off. Ed, 66-; Atlanta Acad. & Inst. Reading, 66- Psychol. Asn; Asn. Ment. Deficiency; Nat. Rehab. Asn. Perception as related to cortical processing of information in developmental view, particularly learning, reading, spelling and cortical or neurosensory deficit. Publ: Inhibitory potential in rotary pursuit acquisition by normal and defective subjects, J. Exp. Psychol, 62; co-auth, Evoked visual potentials and human color vision, Science, 65 & Intensity and the evoked occipitogram in man, Vision Res, 66. Address: Dept. of Psychology, Emory University, Atlanta, Ga.30322.

JONES, DR. RONALD D(ALE), b. Stillwater, Okla, July 18, 32; m. 57; c. 2. BUSINESS ADMINISTRATION, COMPUTER SCIENCE. B.A, Okla. State, 55; M.P.A, Kansas, 60; D.P.A, Southern California, 64. Admin. aide, Budget & Mgt. Div, City of Wichita, Kans, 59-60; admin. intern, City of Beverly Hills, Calif, 60-61; sr. res. engr, Los Angeles div, N.Am. Aviation, Inc, 61-63; engr, Rand Corp, 63-65; ASSOC. PROF. ADMIN, SCH. BUS. & PUB. ADMIN, MISSOURI, KANSAS CITY, 66- U.S.A, 55-58, Res, 58-63, 1st Lt. Asn. Comput. Mach; Inst. Mgt. Sci; Soc. Info. Sci; Urban & Regional Info. Systs. Asn. Organization and use of automated information resources for management, planning and research; management and administration; research technique; scientific computing; military operations research. Publ: Factor analysis of operational data for counterinsurgency, Proc. Mil. Oper. Res. Symp, 64; The public planning information system and the computer utility, Proc. Nat. Conf. Asn. Comput. Mach, 67; User-designed retrieval indices: a case study, Proc. Annual Nat. Colloquim Info. Retrieval, 67. Address: School of Business & Public Administration, University of Missouri at Kansas City, 5100 Rockhill Rd, Kansas City, Mo. 64110.

JONES, PROF. RONALD W, b. Louisville, Ky, July 5, 31; m. 56; c. 1. ECONOMICS. A.B, Swarthmore Col, 52; Ph.D, Mass. Inst. Tech, 56. Asst. ECON, Mass. Inst. Tech, 54-55, instr, 55-56; Swarthmore Col, 56-57; asst. prof, ROCHESTER, 58-61, assoc. prof, 61-66, PROF, 66- U.S.A, 57. Econ. Asn; Econmet. Soc. Economic theory; theory of international trade. Publ: Factor proportions and the Heckscher-Ohlin theorem & Comparative advantage and the theory of tariffs: multi-country, multi-commodity model, Rev. Econ. Studies; Stability conditions in international trade: general equilibrium analysis, Int. Econ. Rev. Address: 219 University Park, Rochester, N.Y. 14620.

JONES, RONALD W(ADE), b. Agency, Mo, Sept. 2, 16; m. 42; c. 2. ECONOMICS. B.S, Missouri, 37, M.A, 41; Chicago, 47-48. Chief tech. coop. br, off. food & agr, Econ. Coop. Admin, Mutual Security Agency, 50-52; econ. consult. Govt. of India, Ford Found, 52-55; spec. asst. to dir. econ. develop, off. food & agr, Int. Coop. Admin, 55-57, chief career develop. div, off. personnel, 57-59, asst. dir. U.S. Opers. Mission, Turkey, 59-62, dir. Off. Afghanistan & Pakistan Affairs, AGENCY INT. DEVELOP, 62-63; dep. dir, Mission to Afghanistan, 63-64; assoc. dir. econ, rural develop. res. proj, Univ. Wisconsin, Madison, 65-68, STAFF COORDINATOR, BUR. NEAR EAST & S.ASIA, 68- Econ. Asn; Agr. Econ. Asn; Soc. Int. Develop; Acad. Polit. & Soc. Sci. Economic development of underdeveloped areas; program evaluation, especially economic development and foreign assistance; resource allocation, especially agriculture and industry transfers; behavioral theory, especially technical assistance. Publ: Personnel management for technical assistance; Production costs as criteria of resource allocation; Farm size in the United States. Address: Bureau for Near East & South Asia, Agency for International Development, Washington, D.C. 20523.

JONES, DR. ROYCE G(ILMER), b. Conway, Ark, Aug. 2, 26; m. 53; c. 2. PSYCHOLOGY. A.B, Dakota Wesleyan, 51; M.A, Denver, 52, Ph.D.(counseling psychol), 55. COUNSELING PSYCHOLOGIST, Nebraska, 55-57; SAN JOSE STATE COL, 57- U.S.N, 44-47. Psychol. Asn; Personnel & Guid. Asn. Counseling theory and practice; teaching; teaching of psychology; personality theory. Address: 3530 Mauricia Ave, Santa Clara, Calif. 95051.

JONES, PROF. S(AMUEL) SHEPARD, b. Arcadia, Fla, Nov. 11, 09. POLITICAL SCIENCE. A.B, Georgetown Col, 30; M.A, Kentucky, 31; Harvard, 32-33; Rhodes scholar & Ph.D, Oxford, 36; hon. LL.D, Georgetown Col, 67. Instr. govt, Harvard, 36-38; lectr. diplomacy, Fletcher Sch. Law, 39-42; chief div. pub. studies & pub. affairs adv, bur. Near East, S.Asian & African affairs, U.S. Dept. State, 47-53, pub. affairs officer, Am. Embassy, Karachi, 53-54, Amman, 54-55; vis. prof, NORTH CAROLINA, 55-56, CRAIGE PROF. POLIT. SCI, 56- Lectr, sch. adv. int. studies, Hopkins, 61; consult, U.S. Naval War Col, 63. Polit. Sci. Asn; Mid. East Studies Asn. N.Am; Mid. East Inst. American foreign policy and public opinion; international relations of the Middle East and South Asia; international organizations and collective self-defense arrangements. Publ: America's role in the Middle East; co-ed, Documents of American foreign relations; Scandinavian states and the League of Nations. Address: Dept. of Political Science, 102-B Caldwell Hall, University of North Carolina, Chapel Hill, N.C. 27515.

JONES, DR. SIDNEY L, b. Ogden, Utah, Sept. 23, 33; m. 53; c. 4. BUSINESS, FINANCE. B.S, Utah State, 54; M.B.A, Stanford, 58, Ph.D.(bus), 60. Asst. prof. FINANCE, Northwestern, 60-64, ASSOC. PROF, 64-65; MICHIGAN, 65- Summers, Ford. Found. faculty res. grant, 64; consult, Am. Securities Indust, 65, Chase Manhattan Bank, New York City, 67. Qm.C, U.S.A, 54, 1st Lt. Finance Asn. Corporation finance; financial institutions; international finance. Publ: Co-auth, Managerial problems in finance, McGraw, 64 & Financial institutions, Irwin, 66. Address: Dept. of Finance, School of Business Administration, University of Michigan, Ann Arbor, Mich. 48104.

JONES, PROF. STEPHEN B(ARR), b. Seattle, Wash, Feb. 23, 03; m. 33; c. 1. GEOGRAPHY. B.S, Washington (Seattle), 24; M.A, Harvard, 29, Ph.D.(geog), 34. Instr. geog, Oregon Col. Ed, 32-35; from instr. to assoc. prof, Hawaii, 35-42; sr. div. asst, U.S. Dept. State, 42-43; assoc. prof. GEOG, YALE, 43-48, PROF, 48- Grant from Soc. Sci. Res. Coun, 35; Dept. State spec. rep, Int. Geog. Union, Japan, 57. V.chmn. div. geol. & geog, Nat. Res. Coun, 48-51. U.S. del, Int. Geog. Cong, London, 64. Merit award, Chicago Geog. Soc, 48. Asn. Am. Geog.(hon. pres, 58-59); hon. fel. Am. Geog. Soc; Meteorol. Soc. International boundaries; political geography. Publ: Boundary-making; Geography and world affairs. Address: Dept. of Geography, Yale University, New Haven, Conn. 06520.

JONES, DR. TED L, b. Warrensburg, Mo, June 5, 29; m. 53; c. 1. AGRICULTURAL ECONOMICS. B.S, Missouri, 51, M.S, 58, Ph.D.(agr. econ), 61; Illinois, 58. Agr. economist, U.S. Dept. Agr, 58-61; asst. prof. agr. econ, Tennessee, 61-63; ASSOC. PROF, Missouri, 63-64; AGR. ECON. & RURAL SOCIOL, OHIO STATE, 65- U.S.A, 51-53, Maj. Agr. Econ. Asn; Finance Asn. Capital budgeting; cash flow analysis; repayment capacity in agricultural finance. Publ: Co-auth, Irrigation practices and costs in southeastern Missouri-1959, Univ. Missouri Res. Bull, 8/62; auth, Changes in volume of agricultural credit outstanding in Tennessee and the United States, Tenn. Farm & Home Sci. Prog. Report, 6/63; Credit management programs in Missouri, Proc. N.Cent. Exten. Farm Mgt. Workshop, Univ. Illinois, 4/64. Address: Dept. of Agricultural Economics & Rural Sociology, Ohio State University, Columbus, Ohio 43210.

JONES, DR. THOMAS E(LSA), b. Fairmount, Ind, Mar. 22, 88; m. 17. SOCIOLOGY, ADMINISTRATION. A.B, Earlham Col, 12; B.D, Hartford Theol. Sem, 15; A.M, Columbia, 17, Ph.D.(sociol), 26; LL.D, Berea Col, 28, Wabash Col, 46, Valparaiso, 53, Indiana, 56. Teacher, Friends Mission, Japan, 17-24; prof. econ, Keio Univ, Japan, 20-24; pres, Fisk, 26-46; EARLHAM COL, 46-58; EMER. PRES, 58-; ADMIN. CONSULT, ASN. AM. COLS, 58- Dir, YMCA, Siberia, 18-19. Consult, Townsend Community Center, Ind, 60-65; Earlham Sch. Relig, 65-67; consult. & bd. mem, Creative Christian Ministries, Ind, 66-68. Trustee, Inst. Int. Ed, 54-56. Chmn, Great Lakes Dist. Cmt. Selection Rhodes Scholarships, 46-49. Sociol. Asn; Asn. Foreign Student Adv. Mountain folk of Japan; race relations. Publ: Co-auth, Letters to a college president, Prentice-Hall, 64. Address: Box 13, Earlham College, Richmond, Ind. 47375.

JONES, DR. VERNON, b. Portsmouth, Va, Oct. 13, 97; m. 29; c. 2. EDUCATIONAL PSYCHOLOGY. B.A. & M.A, Virginia, 20; A.M, Columbia, 24, Ph.D.(ed. psychol), 26. Dir. res, pub. schs, Va, 24; assoc, teachers col, Columbia, 25-26; assoc. prof. ED. PSYCHOL, CLARK, 26-37, PROF, 38-, chmn. dept. psychol. & ed, 38-49, dept. ed, 49-66, organizer & dir, Vet. Admin. Guid. Center, 45-59. Soc. Sci. Res. Coun. & Palmer Found. grants-in-aid. Mem. planning cmt, Nat. Conf. Citizenship, 63- Award, Am. Res Asn, 40. AAAS; Psychol. Asn; Personnel & Guid. Asn; Acad. Polit. & Soc. Sci. Character and citizenship development; guidance and counseling. Publ: Character and citizenship training in the public school, an experimental study; Youth decides; Character and citizenship education. Address: Dept. of Education, Clark University, Worcester, Mass. 01609.

JONES, PROF. VICTOR, b. Birmingham, Ala, Jan. 14, 09; m. 33; c. 2. POLITICAL SCIENCE. A.B, Howard Col, 32; Ph.D, Chicago, 39; hon. M.A, Wesleyan, 50. Instr. Am. hist, Howard Col, 31-34; lectr. POLIT. SCI, California, 38-41, asst. prof, 42-46; Ill. Inst. Tech, 41-42; assoc. prof, Wesleyan, 46, PROF, 50-55; CALIFORNIA, BERKELEY, 55-, prof. admin. sci. & rep, Univ. California Prog, Bologna, Italy, 59-60. Vis. asst. prof, Yale, 45-46; sr. res. fel, Wash. Center Metrop. Studies, 67. Star, Italian Order of Solidarity. Polit. Sci. Asn; Soc. Pub. Admin. Organization and behavior of federal, state and local governments in metropolitan communities; federalism and intergovernmental relations; comparative local government. Publ: Local government organization in metropolitan areas: its relation to urban redevelopment, In: Future of cities and urban redevelopment; Political background of income stabilization policy, In: Income stabilization for a developing democracy; Metropolitan government. Address: Dept. of Political Science, University of California, Berkeley, Calif. 94720.

JONES, PROF. WILLIAM B(UNYAN), JR, Sociol, see 10th ed, Soc. & Behav. Vols.

JONES, DEAN WILLIAM C(HARLES), b. Pittsburgh, Pa, Sept. 17, 00; m. 26; c. 3. POLITICAL SCIENCE. A.B, Whittier Col, 26; M.B.A, Southern California, 29; Ph.D, Minnesota, 40; L.H.D, Calif. Col. Med, 45; LL.D, Willamette, 67. Prof. bus. & pub. admin, Willamette, 29-41; polit. sci, Oregon, 41-44; pres, Whittier Col, 44-51; DEAN ADMIN, OREGON, 51-, acting pres, 60-61. Exec. dir, West. Interstate Cmn. Higher Ed, 53-54. Public administration in American states. Address: 110 Johnson Hall, University of Oregon, Eugene, Ore. 97403.

JONES, DR. W(ILLIAM) LANDIS, b. Altoona, Pa, June 28, 37; m. 65. POLITICAL SCIENCE. B.A, Pittsburgh, 58; M.A, Emory, 59, fel. & Ph.D.(polit. sci), 64. Instr. POLIT. SCI, Ga. Inst. Tech, 61-62; Emory, 62-63; asst. prof, Waynesburg Col, 64-66, assoc. prof, 66-67; ASST. PROF, LOUISVILLE, 67- Polit. Sci. Asn. Urban government; public administration; attitudinal studies of officials involved in intergovernmental relations in the United States and Britain. Address: Dept. of Political Science, University of Louisville, Louisville, Ky. 40208.

JONES, DR. WILLIAM L(ENOX), b. Wymore, Nebr, Apr. 26, 30; m. 49; c. 6. PSYCHOLOGY. B.S, Nebraska, 51, M.Ed, 58, Ed.D.(ed. psychol. & measurement), 61. Instr, pub. schs, Nebr, 51-52, 54-58, guid. counsr, 58-60; instr. ed. psychol, Nebraska, 61-62; clin. psychologist, Selinsgrove State Sch. & Hosp, Pa, 62-64; assoc. prof. psychol, BLOOMSBURG STATE COL, 64-66, PROF. SPEC. ED. & DIR, 66- Summer vis. prof, Iowa State, 62; lectr, Sus-

quehanna, 63. U.S.A, 52-54, Res, 54-62, Capt. Attitudes and backgrounds of successful and unsuccessful students; evaluation of a rapport building technique for teachers; method of diagnosing and correcting learning disabilities. Address: Division of Special Education, Bloomsburg State College, Bloomsburg, Pa. 17815.

JONES, PROF. WILLIAM O(RVILLE), b. Lincoln, Nebr, July 6, 10; m. 43; c. 3. ECONOMICS. A.B, Nebraska, 32, hon. Sc.D, 65; Ph.D, Stanford, 47. Instr. econ, Stanford, 40-41; Santa Clara, 42; secy, dept. ground sch. training, Santa Ana Army Air Base, 42-44; instr. ECON, STANFORD, 44-46, asst. prof. & asst. economist, FOOD RES. INST, 46-50, assoc. prof. & assoc. economist, 50-53, PROF. & ECONOMIST, 53-, DIR. FOOD RES. INST, 64-, exec. secy, 55-62. Guggenheim fel, 53; vis. lectr, agr. econ. res. inst, Oxford, 59-60. Econ. Asn; African Studies Asn.(v.pres, 59-60, pres, 60-61); Agr. Econ. Asn; Brit. Agr. Econ. Soc; Int. African Inst. American agricultural policy; tropical agriculture; African food and agriculture. Publ: Economic man in Africa, Food Res. Inst. Studies; Manioc in Africa; Increasing agricultural productivity in tropical Africa, In: Economic development in Africa, 65. Address: Food Research Institute, Stanford University, Stanford, Calif. 94305.

JONES, DR. WYATT CLAIBORNE, b. Cullman, Ala, May 4, 19; SOCIOLOGY. A.B, Birmingham-South. Col, 41; B.D, Vanderbilt, 44; A.M, N.Y. Univ, 54, Ph.D.(sociol), 65. Res. assoc. SOCIOL, N.Y. Univ, 54-64; ASSOC. PROF, HELLER GRAD. SCH, BRANDEIS, 65- Res. assoc, sch. soc. work, Columbia, 62-65; res. grants, Off. Juvenile Delinquency, 65-68 & Welfare Admin, 67-68. Sociol. Asn; Nat. Conf. Soc. Welfare; Int. Conf. Soc. Work. Social deviance and welfare; large scale interventions. Publ: Co-auth, Girls at vocational high, Russell Sage Found, 65; Social and psychological decisions of unmarried mothers, In: The unwed mother, Harper, 66; An experiment in prevention through social work intervention, In: Behavior: science for social workers, Macmillan, 67. Address: Research Center, Heller Graduate School, Brandeis University, Waltham, Mass. 02154.

JONITIS, PROF. PETER P(AUL), b. U.S. Apr. 23, 14; m. 42; c. 2. SOCIOLOGY. A.B, Clark, 39; M.A, Columbia, 42; Ph.D, Pennsylvania, 51. Instr. sociol, Pennsylvania, 44-50; prof. & chmn. dept. sociol. & econ, Wash. Col, 50-52; asst. prof. SOCIOL, Bates Col, 53-58; assoc. prof, 58-67; PROF. & CHMN. DEPT, FLA. SOUTH. COL, 67- Instr, Haverford Col, 47; guest scholar, Russian Res. Center, Harvard, 52-53; teacher, Quaker Sch, Jordan, 59-60; Nat. Sci. Found. Inst, Colorado, 61; summer Fulbright scholar, Taiwan, 62. U.S.A, 42-43. Fel. Sociol. Asn; Acad. Polit. & Soc. Sci. Demography; social institutions of the Middle East; race and cultural relations; criminology. Address: 217 E. Belmar St, Lakeland, Fla. 33803.

JORDAIN, PHILIP BERNARD, b. Paris, France, Feb. 1, 19; U.S. citizen; m. 48; c. 4. APPLIED MATHEMATICS. B.Sc, Columbia, 51. Distribution analyst, Socony Vacuum Oil Co, Inc, 50-52, mgr. mkt. res, Mobil Oil Mex, 53-57, asst. to mgr. distribution, Mobil Int. Oil Co, Inc, 57-59; mgr. methods planning, Radio Corp. Am, 60-61; consult. OPERS. RES, Lybrand, Ross Bros. & Montgomery, N.Y, 61-62; mgr, Werner Mgt. Consults, N.Y, 62-64; DIR, THOMAS J. LIPTON, INC, ENGLEWOOD CLIFFS, 65- AAAS; Asn. Comput. Mach; Opers. Res. Soc; Inst. Mgt. Sci. Computer information systems; self organizing systems; application of operations research in marketing and finance. Publ: Condensed computer encyclopedia, 69 & An approach to management science, 69, McGraw. Address: 9 Brinkerhoff Ave, Teaneck, N.J. 07666.

JORDAN, COL. AMOS A(ZARIAH), JR, U.S.A, b. Twin Falls, Idaho, Feb. 11, 22; m. 46; c. 6. POLITICAL SCIENCE, ECONOMICS. B.S, U.S. Mil. Acad, 46; Rhodes scholar, B.A. & M.A, Oxford, 50; Ph.D, Columbia, 61. U.S. ARMY, 43-, instr. polit. sci. & econ, U.S. MIL. ACAD, 50-53, PROF. SOC. SCI, 55- Economist, For. Opers. Admin. Mission, Korea, 55; Off. Econ. Coordinator; staff dir. adv. cmt. non-mil. instr. to Secy. Defense, 62; spec. polit. adv. to Ambassador Bowles, New Delhi, India, 63-64; dir. Near East & South Asia region, off. secy. defense, Int. Security Affairs, 66-67. Mem. staff, Presidents Cmt. Mil. Assistance, 59. Polit. Sci. Asn. Economic development; civil-military relations; foreign assistance; modern Far Eastern politics; Near East and South Asian politics and defense policy matters. Publ: Foreign aid and the defense of Southeast Asia; Co-auth, Southeast Asia: problems of United States foreign policy, M.I.T. Press, 63; ed. & co-auth, Issues of national security in the 1970's, Praeger, 67. Address: Quarters 69, West Point, N.Y. 10996.

JORDAN, PROF. A(RTHUR) M(ELVILLE), b. Somerton, Va, Oct. 9, 88; m. 14; c. 2. EDUCATIONAL PSYCHOLOGY. A.B, Randolph-Macon Col, 07; A.M, Trinity Col.(N.C), 09; Ph.D, Columbia, 19. Instr. psychol, Arkansas, 14-15, asst. prof, 15-19, PROF, 19-23; ED. PSYCHOL, NORTH CAROLINA, CHAPEL HILL, 23- AAAS; Psychol. Asn. Mental growth; intelligence quotients and occupations; test validation; social characteristics of mentally handicapped. Publ: Children's interests in reading; Educational psychology; Measurement in education. Address: 401 Pittsboro St, Chapel Hill, N.C. 27514.

JORDAN, DR. EDWARD J(OHN), JR, b. New Haven, Conn, Apr. 12, 32. PSYCHOLOGY. B.A, Yale, 53; U.S. Pub. Health Serv. fel, Clark, 57-58, Ph.D, 58. Staff psychologist, Worcester State Hosp, Mass, 58-59; clin. psychologist, U.S. Vet. Admin. Hosp, Durham, N.C, 59-61; res. psychologist, Medfield Found, Inc, 61-63; PSYCHOLOGIST, VET. ADMIN. HOSP, Providence, R.I, 63-65, WASH, D.C, 65- Instr, med. center, Duke, 59-61; lectr, exten. div, Rhode Island, 63-65. Consult, John Umsted State Hosp, Butner, N.C, 60; res. psychol. consult, R.I. Med. Center, Howard, 63-64; consult. psychologist, spec. proj. ed. emotionally disturbed children, State Ed. Dept, Providence, 64-65. Psychol. Asn. Application of behavior modification principles in general hospital settings. Publ: Co-auth, Achievement motivation in fantasy and behavior, J. Abnorm. & Soc. Psychol; auth, MMPI profiles of profiles of epileptics; a further evaluation, J. Consult. Psychol, 63. Address: 10509 Huntley Place, Silver Spring, Md. 20902.

JORDAN, DR. EVAN P(AUL), b. Lafayette, Ind, Mar. 6, 24; m. 49; c. 3. SPEECH PATHOLOGY. B.A, Indiana, 48; M.A, Illinois, 52; Am. Speech & Hearing Asn. scholarship, Iowa, 59-60, Ph.D.(speech path), 60. Speech clinician, med. center, Indiana, 48-50, acting dir. speech path, speech & hearing clin, 54-55; asst. prof, Syracuse, 56-58; asst. prof. & dir. clin, Colorado State, 60-61; asst. prof, dir. outpatient speech clin. & summer residential speech & hearing clin, Iowa, 61-66; ASSOC. PROF. SPEECH, VERMONT, 66- Sig.C, U.S.A, 42-45. Speech & Hearing Asn. Functional problems of articulation and the dynamics of language learning. Publ: Articulation test measures and listener ratings of articulation defectiveness, J. Speech & Hearing Res, 60. Address: Dept. of Speech Pathology & Audiology, University of Vermont, Burlington, Vt. 05401.

JORDAN, DR. GARRET L(OWELL), Agr. Econ, see 10th ed, Soc. & Behav. Vols.

JORDAN, DR. GERALD I(RWIN), b. Huntington, W.Va, May 6, 15; m. 50; c. 1. GOVERNMENT. A.B, Marshall Col, 36; Ph.D, California, Los Angeles, 41. Instr. govt, Stanford, 39-41; exec. officer, Off. Price Admin, D.C, 41-43; assoc. prof. GOVT, Claremont Men's Col. 46-61, PROF, CLAREMONT GRAD. SCH, 61-, chmn. dept, 61-64. Fulbright res. scholar, Netherlands, 52-53. U.S.N, 43-46, Lt. American government; public law; Lincoln and the rule of law. Address: Dept. of Government, Claremont Graduate School, Claremont, Calif. 91711.

JORDAN, HELEN M(OUGEY), Sociol, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

JORDAN, DR. MARGARET THORSON, b. Zearing, Iowa, July 6, 38; m. 67. CLINICAL PSYCHOLOGY. B.A, Iowa, 60, Westinghouse scholar & M.A, 62, Ph.D.(psychol), 64. Intern, Vet. Admin. Hosp, Iowa City, Iowa, 63-64, staff psychologist, 64; fel. child clin. psychol, MED. CENTER, COLORADO, 64-65, instr. PSYCHOL, 65-67, ASST. PROF, 67- Psychol. Asn. Psychopathology of childhood, especially as related to developmental factors interacting with responses to environmental stress. Address: University of Colorado Medical Center, 4200 E. Ninth Ave, Denver, Colo. 80220.

JORDAN, PROF. MILLARD L(EROY), b. Pleasant City, Ohio, Jan. 14, 90; m. 18, c. 2. SOCIOLOGY. B.Sc, Ohio State, 18; M.A, Western Reserve, 31. Teacher, pub. schs, Ohio, 08-11, 18-28; prof. SOCIOL, CLEVELAND STATE, 28-65, EMER. PROF, 65-, ARCHIVIST, UNIV. ARCH, 65- Sociol. Asn; Adult Ed. Asn. Crime and delinquency, problems in family life and leisure time activities in Greater Cleveland. Publ: Marriage and family problems; Leisure time activities of sociologists and attorneys, Sociol. & Soc. Res; Cooperative education, Sch. & Soc. Address: Archives, Cleveland State University, Cleveland, Ohio 44115.

JORDAN, DR. ROBERT HARLEY, b. Whittier, Calif, May 15, 21. SOCIOLOGY. A.B, Whittier Col, 43; M.A, Southern California, 48, Ph.D.(sociol), 54. Prof. sociol, George Fox Col, 49-52; teacher, Tehachapi High Sch, 52-54; Los Angeles City Schs, 54-60; INSTR. SOCIOL, CERRITOS COL, 60-, CHMN. DEPT, 65- U.S.A.A.F, 44-46. Sociol. Asn. The community and sociology of religion. Publ: Social functions of the churches in Oakville, Sociol. & Soc. Res. Address: 905 Driftwood, Seal Beach, Calif. 90740.

JORDAN, PROF. ROBERT S, b. Los Angeles, Calif, June 11, 29; m. 61. POLITICAL SCIENCE. B.A, California, Los Angeles, 51; M.S, Utah, 55; M.A, Princeton, 57, du Bois fel. & Ph.D, 60; Fulbright fel. & D.Phil, Oxford, 60. Asst. to v.pres, Utah, 54-55; budget exam, Exec. Off. President, U.S. Bur. Budget, 56; asst. prof. pub. & int. affairs & exec. asst. to dean, grad. sch. pub. & int. affairs, Pittsburgh, 59-60; asst. dir, Army War Col. Center, GEORGE WASHINGTON, 60-61, acting asst. dean, SCH. PUB. & INT. AFFAIRS, 61, ASSOC. PROF. INT. AFFAIRS, 61-, dir. air univ. center, Maxwell Air Force Base, Ala, 61-62, asst. to pres, univ, 62-64, assoc. dir, int. orgn. & security affairs, prog. policy studies, 64-65. Lectr, Brit. Imp. Defence Col, 57; extra-mural faculty bds, Oxford & Birmingham, 58-59; Command & Staff Col, Air Univ, 62; Littauer vis. prof. polit. sci, head dept. & dean faculty econ. & soc. studies, Univ. Sierra Leone, 65-67. Mem. Inst. Strategic Studies, 59; Washington Inst. Foreign Affairs, 62. U.S.A.F, 51-53, Res, 53-, Capt; Bronze Star Medal. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci; African Studies Asn; Am. Soc. Int. Law; Int. Polit. Sci. Asn. West African government and politics; international and public administration; politico-military affairs; diplomatic history; alliance diplomacy. Publ: NATO international staff-secretariat, 1952-1957: a study in international administration, Oxford Univ, 67; Governments in transition: an introduction to government in English-speaking West Africa, Faber, 68. Address: Dept. of Political Science, George Washington University, Washington, D.C. 20006.

JORDAN, DR. TERRY G, b. Dallas, Tex, Aug. 9, 38; m. 62; c. 2. GEOGRAPHY. B.A, Southern Methodist, 60; M.A, Texas, Austin, 61; Ph.D. (geog), Wisconsin, 65. ASST. PROF. GEOG, ARIZONA STATE, 65- Asn. Am. Geog; Am. Geog. Soc; Agr. Hist. Soc. Historical geography of Anglo-America; rural settlement geography. Publ: German seed in Texas soil, Univ. Texas, 66; On the nature of settlement geography, Prfnl. Geogr, 66; The imprint of the upper and lower South on mid-19th cent. Texas, Annals Asn. Am. Geog, 67. Address: Dept. of Geography, Arizona State University, Tempe, Ariz. 85281.

JORDAN, PROF. THOMAS E, b. Leeds, Eng, July 23, 29; nat; m. 53; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Indiana State Col, 50, A.M, 51; Ed.D, Indiana, 55. Teacher, pub. schs, Ind, 52-54; asst, Indiana, 54-55; asst. prof, Ball State Teachers Col, 55-57; asst. prof. ed. & consult, Washington (St. Louis), 57-60; assoc. prof. ed, St. Louis, 60-62; dir. center teacher ed, Tulane, 62-63; PROF. ED, SOUTHERN ILLINOIS, 63- Summer vis. lectr, Oklahoma, 55. Mem, Coun. Except. Children. U.S.A.F, 51- Psychol. Asn; Asn. Ment. Deficiency. Theoretical, educational and psychological aspects of mental retardation; historical studies of mental retardation and allied problems. Publ: Mentally retarded; Exceptional children; Perspectives in mental retardation. Address: College of Education, Southern Illinois University, Carbondale, Ill. 62901.

JORDAN, DR. VIRGIL (DUSTIN), Econ, see 10th ed, Soc. & Behav. Vols.

JORDAN, DR. W(ILLIAM) M(ARK), Int. Affairs, Polit, see 10th ed, Soc. & Behav. Vols.

JORDAN, DR. WINTHROP D(ONALDSON), Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JORDY, GEORGE YESSLER, b. Pittsburgh, Pa, May 2, 32; m. 56; c. 2. MATHEMATICS, ECONOMICS. B.S, Carnegie Inst. Tech, 54; M.B.A, Pennsylvania, 55. Res. engr, Am. Viscose Corp, 55-57; opers. analyst, div. opers. anal, U.S. ATOMIC ENERGY CMN, 57-63, sr. eval. engr, div. reactor develop, 63-66, ASST. DIR. PLANNING & EVAL, DIV. ISOTOPES DEVELOP, 66- Instr, found. adv. ed. sci, Nat. Insts. Health, 61- Inst. Mgt. Sci. Theory of the firm; mathematical economics of inventory and production; applied mathematical programming. Publ: Costs of nuclear power; Nuclear power and utility systems; co-auth, Systems for nuclear auxiliary power—an evaluation, Govt. Printing Off, 65. Address: 809 Harrington Rd, Rockville, Md. 20852.

JORGENSEN, DR. CHARLES JOSEPH, b. Springfield, Ill, Feb. 17, 10; m. 35; c. 2. ECONOMICS. B.S, Illinois, 31; Ph.D.(econ), Washington (Seattle), 62. PROF. ECON. & BUS. ADMIN. & HEAD DEPT, NORWICH, 63- U.S.A, 35-37, 41-58, Lt. Col. Econ. Asn; Econ. Hist. Asn. Economic history and principles; introduction to business. Address: Dept. of Economics & Business Administration, Norwich University, Northfield, Vt. 05663.

JORGENSEN, DR. JOSEPH G, b. Salt Lake City, Utah, Apr. 15, 34; m. 64. ANTHROPOLOGY. B.S, Utah, 56; Ph.D.(anthrop), Indiana, 64. Camp dir, Ute Indian Tribe, 60, 62, ed. coordinator, 60-61; archaeologist, Nat. Park Serv, 61; ASST. PROF. ANTHROP, Antioch Col, 64-65; OREGON, 65- Nat. Sci. Found. summer fels, Cross Cultural Res. Inst, 64 & Ling. Inst, 65; Nat. Insts. Health res. grant Am. Indian, 66; Am. Philos. Soc. Penrose Fund summer res. grant, 67. Consult, high sch. equivalency proj, Univ. Oregon, 67-; Ute Indian res, Brigham Young, 67- U.S.A.R, 52-58. Fel. Anthrop. Asn. Comparative North American Indian ethnology and linguistics; research methods in anthropology; inductive methods and philosophy of social science. Publ: Geographical clusterings and functional explanatories of in-law avoidances: an analysis of comparative methods, Current Anthrop, 66; Salish language and culture, Int. J. Am. Ling, (in press). Address: Dept. of Anthropology, University of Oregon, Eugene, Ore. 97403.

JORGENSEN, T(HORVALD) W, b. Salt Lake City, Utah, Nov. 22, 11; m. 36; c. 2. ECONOMICS. B.A, Utah, 35; M.B.A, N.Y. Univ, 37; Columbia, 40-41. Investment analyst, Fitch Investors Serv, New York, 37-41; econ. analyst, off. of secy, U.S. Treasury Dept, 42-43; statistician & price & financial analyst, commodity credit corp, U.S. Dept. Agr, 44-53, economist & statistician, commodity exchange authority, 53-61; CONSULT. ECONOMIST, 61-, ASSOC. PROF. ECON. & BUS. ADMIN, W.VA. WESLEYAN COL, 65- Participant, 12th annual nat. strategy seminar, U.S. Army War Col, 66. Wash. columnist & contrib. writer, various farm & financial pub, 64-; ed. & consult, Farm Bus. Inc, D.C, 64-65; Bailey Agr. Mgt. Serv, D.C, 64-65. Award, Am. Security Coun, 67. Econ. Asn; Finance Asn; Acad. Polit. Sci. Address: 2004 Osborn Dr, Silver Spring, Md. 20910.

JORGENSON, PROF. DALE W, b. Bozeman, Mont, May 7, 33; m. 57. ECONOMICS. B.A, Reed Col, 55; A.M, Harvard, 57, Ph.D, 59. Asst. prof. ECON, CALIFORNIA, BERKELEY, 59-61, assoc. prof, 61-63, PROF, 63- Ford res. prof, Chicago, 62-63; vis. prof, Hebrew Univ, Israel, 67; Nat. Sci. Found. sr. fel, Netherlands Sch. Econ, Rotterdam, 67-68; vis. prof, Oxford, 68. Consult, Rand Corp, 59-; centre indust. develop, UN, 66-67; Fed. Reserve Bank San Francisco, 66-; off. emergency planning, Exec. Off. of President, 66-; agency int. develop, U.S. Dept. State, summer 64. Mem, Conf. Res. Income & Wealth; res. adv. cmt, Nat. Bur. Econ. Res, 66-; econ. panel surv. behav. & soc. sci, Nat. Res. Coun. & Soc. Sci. Res. Coun, 67- Am. Econ. Asn; fel. Statist. Asn; fel. Economet. Soc; Royal Econ. Soc. Econometrics. Publ: Co-auth, Optimal replacement policy, North Holland, 67; auth, Development of a dual economy, Econ. J, 6/61; Capital theory and investment behavior, Am. Econ. Rev, 5/63. Address: Dept. of Economics, University of California, Berkeley, Calif. 94720.

JORRIN, PROF. MIGUEL, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

JORVE, DR. WARREN R(USSELL), b. Fargo, N.Dak, May 12, 28; m. 52; c. 4. PSYCHOLOGY. B.A, Minnesota, 49, M.A, 51, Ph.D, 60; Ohio State, 54. Asst. psychol, Minnesota, 49-50, off. dean of students, 50-51; counsr, div. voc. rehab, State Dept. Ed, Minn, 51-53, 55-56; res. psychologist, aeromed. lab, Wright Air Develop. Center, 53-55; trainee counseling psychol, Vet. Admin. Hosp, Minneapolis, Minn, 56-60, counseling & clin. psychologist, VET. ADMIN. CENTER, 60-65, CHIEF PSYCHOL. SERV, 65- Mem. faculty, Augustana Col,(S.Dak), 63-64. Consult, adult day care prog, Southeast. Ment. Health Center, 61-64, consulting psychologist, 65- U.S.A.F, 53-55, Res, 51-53, 55-67, Capt. Psychol. Asn. Vocational counseling and rehabilitation of the physically and emotionally disabled; psychological tests and measurements; occupational prestige; individual and group behavior modification. Publ: Co-auth, What kinds of college students become disciplinary cases?, Ed. & Psychol. Measurement; Effects of gravitational stress upon visual acuity. Address: Psychology Service, Veterans Administration Center, Sioux Falls, S.Dak. 57101.

JOSEPH, BRO. ALEXANDER, F.S.C, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

JOSEPH, PROF. MICHAEL P(ETER), b. Minneapolis, Minn, May 19, 23. STATISTICS, COUNSELING. B.S, St. Mary's Col, 44; M.A, Minnesota, 53; Ph.D, Mich. State, 61. Instr. eng, Christian Bro. Col, 45-49; teacher & counsr, high sch, Kans. & Mo, 49-54; prof. psychol. & dir. counseling, St. Mary's Col, 54-59; instr. ed. psychol, Mich. State, 59-61; asst. prof. counseling & test officer, San Fernando Valley State Col, 61-62; assoc. prof. psychol. & dir. counseling, Marquette, 62-64; assoc. prof. psychol. studies, Minnesota, Minneapolis, 64-66; RES. CONSULT, MINNEAPOLIS PUB. SCHS, 66- Lectr, St. Thomas Col, 64- Psychol. Asn; Personnel & Guid. Asn; Coun. Measurement in Ed; Ed. Res. Asn. Validity and reliability of interest, aptitude and achievement tests; motivation of high school students; high school dropouts; counseling with the under achiever. Publ: Psychology in the Catholic College; Freshman orientation handbook; co-auth, Study guide for educational psychology, Wadsworth, 67. Address: 4948 Quail Ave, N, Minneapolis, Minn. 55429.

JOSEPHSON, DR. ERIC, b. New York, N.Y, Nov. 14, 24; m. 56; c. 1. SOCIOLOGY. A.B, N.Y. Univ, 47; M.A, Columbia, 49, Ph.D.(sociol), 59; Swiss-Am. Exchange fel, 51-52. Res. asst, Am. Jewish Cmt, 48-49; instr. sociol, Dickinson Col, 49-51; assoc. dir. young adults study, Nat. Soc. Welfare Assembly, 52-53; res. asst, bur. appl. soc. res, Columbia, 53-54; instr. sociol, Princeton, 54-55; res. consult, Gen. Elec. Co, 55-56; dir. proj. anal, Advertest Res, Inc, 56-58; res. assoc, Am. Found. for Blind, 59-65; ASST. PROF. PUBLIC HEALTH PRACTICE, SCH. PUB. HEALTH & ADMIN. MED, COLUMBIA, 65- Lectr, sch. gen. studies, Columbia, 58-59; sch. ed, N.Y. Univ, 64-65. Consult, Orgn. Soc. & Tech. Innovation, 67. Critic, Conf. Sociol. Theory, Res. & Rehab, 65; chmn, Conf. Res. Geriat. Blindness & Severe Visual Impairment, 67. Sig.C, U.S.A, 43-45. Sociol. Asn; Asn. Pub. Opinion Res; Pub. Health Asn. Public opinion; blindness; political sociology; alienation; adolescence. Publ: Co-auth, Man alone: alienation in modern society, Dell, 62; auth, Social life of blind people, Am. Found. for Blind, 67. Address: School of Public Health & Administrative Medicine, Columbia University, 630 W. 168th St, Room 252, New York, N.Y. 10032.

JOSEPHSON, DR. H(ORACE) R(ICHARD), Forestry, see 11th ed, Phys. & Biol. Vols.

JOSEY, PROF. CHARLES C(ONANT), b. Scotland Neck, N.C, Jan. 1, 93; m. 23; c. 2. PSYCHOLOGY. B.A, Wake Forest Col, 13; M.A, Columbia, 18, Ph.D. (philos), 21. Instr. psychol, Dartmouth Col, 21-22, asst. prof, 22-23; prof. psychol. & philos, South Dakota, 23-32, head dept, 32-39; prof. psychol. & head dept, BUTLER, 39-63, EMER. PROF. PSYCHOL, 63- Fel. Psychol. Asn; Soc. Sci. Study Relig. Clinical and social psychology. Publ: Psychology of religion; co-auth, Psychology of normal people & Psychology and successful living. Address: 301 Buckingham Dr, Indianapolis, Ind. 46208.

JOSKOW, DR. JULES, b. New York, N.Y, July 19, 22; m. 45; c. 3. ECONOMICS. B.S, City Col. New York, 41; M.A, Columbia, 42, Ph.D.(econ), 53. From teaching fel. to assoc. prof. econ, City Col. New York, 41-61; sr. economist, Boni, Watkins, Jason & Co, 52-61; V.PRES, NAT. ECON. RES. ASSOCS, INC, 61- Econ. Asn; Statist. Asn; Asn. Bus. Econ. Economic statistics; business forecasting; government regulation. Address: 67-20 172nd St, Flushing, N.Y. 11365.

JOST, DR. KENNETH C, b. Fults, Ill, Nov. 12, 14; m. 43; c. 3. PSYCHOLOGY. Ph.D.(psychol), Illinois, 50. Chief Clin. psychol. serv, Vet. Admin. Hosp, 53-57; clin. psychologist, East. Ill. Ment. Health Univ, 57-64; CHIEF PSYCHOLOGIST, Winnebago County Guid. Center, Wis, 64-66; MAUMEE VALLEY GUID. CENTER, 66- Instr, Danville Jr. Col, 53-56; Lawrence, 65; exten. br, Wisconsin, 65-66. U.S.A, 42-46, Capt. Psychol. Asn. Psychodiagnostics; psychotherapy. Publ: Level of aspiration of schizophrenic patients and normal subjects. Address: 1817 Darbyshire Dr, Defiance, Ohio 43512.

JOST, PROF. T(ADEUSZ) P(IOTR), b. Poland, Sept. 26, 14; nat; m. 38; c. 1. GEOGRAPHY. M.Ph, Cracow, Poland, 37; Ph.D, Montreal, 56. Assoc. prof. GEOG, OTTAWA, 49-67, PROF, 67- Asn. Am. Geog; Am. Geog. Soc; Polish Inst. in Am; Can. Asn. Geog. Physical and economic geography; history of geographical discoveries in Canada and North Atlantic area. Publ: Geographical aspects of the N.W. slopes of the Swan Hills, Alberta; Portuguese activity along the Canadian shore at the beginning of modern times; John Day alias Hugh Say, the men of Bristol and Joao Fernandez, Cartographer, 67. Address: 2290 Horton St. Ottawa 8, Ont, Can.

JOUGHIN, DR. JEAN T(EMPLIN), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JOUGHIN, DR. LOUIS, Hist, Pub. Law, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

JOURARD, PROF. SIDNEY M(ARSHALL), b. Toronto, Ont, Jan. 21, 26; nat; m. 48; c. 3. PSYCHOLOGY. B.A, Toronto, 47, M.A, 48; U.S. Pub. Health Serv. fel, Buffalo, 52, Ph.D.(psychol), 53. Asst. prof. psychol, Emory, 51-56; psychiat. & head clin. psychol. sect, med. center, Alabama, 56-58; assoc. prof. PSYCHOL, FLORIDA, 58-64, PROF, 64- U.S. Pub. Health Serv. fel, Tavistock Clin, London, 64-65. Consult, Peace Corps, 63-64. Psychol. Asn; Acad. Psychother. Psychotherapy; self-disclosure; body-experience; existential-phenomenology; humanistic psychology. Publ: Personal adjustment, Macmillan, 2nd ed, 63; The transparent self, 64 & Disclosing man to himself, 68, Van Nostrand. Address: 1506 S.W. 35th Place, Gainesville, Fla. 32601.

JOWERS, PROF. JOSEPH B, b. Allendale, S.C, Jan. 3, 24; m. 52; c. 2. SOCIAL SCIENCE. A.B, Paine Col, 48; B.D, Drew, 51; Ph.D.(sociol), New Sch. Soc. Res, 57; North Carolina, Greensboro, 65-67. Assoc. prof. sociol, Lane Col, 58-59; PROF. sociol, Benedict Col, Allen, 59-61; A&T State, 61-63; relig, Bennett Col, 63-64; SOC. SCI, WINSTON-SALEM STATE COL, 64- U.S.M.C, 43-46. Sociol. Soc. Education; religion; history. Address: Dept. of Social Science, Winston-Salem State College, Winston-Salem, N.C. 27102.

JOY, PROF. NED V(ERNON), b. San Rafael, Calif, Sept. 30, 20; m. 45; c. 2. POLITICAL SCIENCE. A.B, California, 46, Ph.D, 52. Instr. POLIT. SCI, Princeton, 49-52; asst. prof, SAN DIEGO STATE COL, 53-57, assoc. prof, 57-61, PROF, 61-, CHMN. DEPT, 66- U.S.A.A.F, 42-45; Sgt. Polit. Sci. Asn. American constitutional law and government; jurisprudence. Address: Dept. of Political Science, San Diego State College, San Diego, Calif. 92115.

JOY, DR. VERNON L(ESTER), b. Sioux City, Iowa, Sept. 3, 30; m. 55. CLINICAL & SOCIAL PSYCHOLOGY. B.A, Nebraska, 53; U.S. Pub. Health Serv. fel, Texas, 60-61, Ph.D.(clin. psychol), 63. Intern clin. psychol, southwest.

med. sch, Texas, 61-62; ASST. PROF, Ohio State, 63-65; PSYCHOL, WESTERN ILLINOIS, 65- Consult, Methodist Children's Home, Worthington, Ohio, 63-65. U.S.A.F, 54-58, 1st Lt. Psychol. Asn. Anxiety; personality theory; management theory; adaptation level; group therapy and dynamics; philosophy of science. Publ: Co-auth, Domains of lightness assimilation and contrast, Psychologische Beiträge, 62. Address: Dept. of Psychology, Western Illinois University, Macomb, Ill. 61455.

JOYCE, DR. GEORGE, b. Tulsa, Okla, May 30, 28; m. 55; c. 3. MARKETING, ECONOMICS. B.B.A, Oklahoma, 58, M.B.A, 59; Ph.D.(mkt, econ), Alabama, 65. Instr. MKT. & ECON, Arlington State Col, 58-61; Alabama, 61-65; ASSOC. PROF, Texas, El Paso, 65-67; BOWLING GREEN STATE, 67- U.S.A.F, 50-54, S/Sgt. Mkt. Asn. Publ: Co-auth, A study of the expected economic and social impact of interstate highways in the industrial and commercial trading area of Birmingham—the first phase, 9/64 & A study of the expected economic and social impact of interstate highways in the industrial and commercial trading area of Birmingham—the final report, 9/65, Ala. Hwy. Dept. & U.S. Dept. Commerce, Bur. Pub. Rd. Address: 628 Haskins Rd, Bowling Green Ohio 43402.

JOYCE, PROF. JAMES N(EAL), b. Buhl, Idaho, July 8, 25; m. 48; c. 4. PSYCHOLOGY. A.B, Indiana, 50; M.A, Ohio State, 52, Ph.D, 55. Psychologist, Columbus State Sch, Ohio, 55; asst. prof, Coe Col, 55-60; assoc. prof. PSYCHOL, WESTERN ILLINOIS, 60-67, PROF. 67-, HEAD DEPT, 60- U.S.N, 42-46. Psychol. Asn. Social learning theory of personality; language effect on performance. Address: Dept. of Psychology, Western Illinois University, Macomb, Ill. 61455.

JOYCE, DR. JON M, b. Hutchinson, Kans, May 29, 38; m. 60; c. 2. ECONOMICS. B.B.A, Wichita State, 62; M.A, Northwestern, 66, Ph.D.(econ), 67. ASST. PROF. ECON, WESLEYAN, 67- U.S.N, 56-59. Econ. Asn. Sales anticipations and inventory investment; labor economics. Address: Dept. of Economics, Wesleyan University, Middletown, Conn. 06457.

JOYNER, PROF. ROBERT C, b. Kingston, Ont, July 25, 21; m. 47; c. 4. PSYCHOLOGY. B.A, Toronto, 48, Inst. Indust. Rels. fel, 48-49, M.A, 49, Ph.D.(psychol), 53. Instr. PSYCHOL, Toronto, 48, lectr, 51, asst. prof, 57, assoc. prof, 63-67; PROF, YORK (ONT), 67- Spec. lectr. sch. bus, Toronto, 52-56; Imperial Oil res. grant, 59-60; Nat. Res. Coun. Can. res. grants, 60-61, 62-63; Ford Found. faculty res. fel, 65-66; vis. assoc. prof. indust. admin. & psychol, Carnegie Inst. Tech, 65-66; Ont. Inst. Studies in Ed. res. grant, 68; Bronfman Found. & Seagram bus. faculty fel, 68-69. Consult, Hydro Elec. Power Cmn. Ont, 51-53; Orenda engines, A.V. Roe Can, 53-57; res. consult. sch. bus, Univ. Toronto & Can. Nat. Rwy, 64-65. R.C.A.F, 42-45, Flying Officer; Distinguished Flying Cross. AAAS; Am. Psychol. Asn; Inst. Mgt. Sci; Can. Psychol. Asn; Comput. Soc. Can. Computer simulation; computer-assisted-learning; organizational behaviour. Publ: Co-auth, Relationship of persuasive interaction to change of opinion in duadic groups when the original opinions of participants are expressed privately and publicly, J. Abnormal & Soc. Psychol, 61; auth, A process model of individual concept learning in groups, Monogr, Grad. Sch. Indust. Admin, Carnegie Inst. Tech, 66; co-auth, Demonstration of computer-augmented group problem-solving, Behav. Sci, 5/69. Address: Faculty of Administrative Studies, York University, 4700 Keele St, Toronto, Ont, Can.

JOYNT, PROF. CAREY B, b. Hensall, Ont, Jan. 7, 24; m. 48. INTERNATIONAL RELATIONS. B.A, Western Ontario, 45, M.A, 48; fel, Clark, 48-51, Ph.D.(hist. & int. rel), 51. Asst. prof. INT. RELS, LEHIGH, 51-56, assoc. prof, 56-60, PROF, 60-, CHMN. DEPT, 56- Ford Found. fel, Harvard, 57-58; grant-in-aid, Am. Coun. Learned Socs, 60-61; Guggenheim fel, 63. Polit. Sci. Asn. Theory of international politics. Publ: Co-auth, Evidence in history and in law, J. Philos. and Problems of uniqueness in history, Hist. & Theory; auth, John Foster Dulles and the Suez crisis, In: Statesmen and statescraft of the modern west, Barre, 67. Address: Dept. of International Relations, Lehigh University, Bethlehem, Pa. 18015.

JUCIUS, PROF. MICHAEL J(AMES), b. Ill, Sept. 29, 07; m. 38; c. 3. BUSINESS MANAGEMENT. Ph.B, Chicago, 31, A.M, 32, fel, 32-34, Ph.D, 42. Instr, Kansas, 34-36; from instr. to prof. BUS. ORGN, OHIO STATE, 36-66, EMER. PROF, 66-; PROF. MGT, ARIZONA, 66- Vis. prof, Inst. Adv. Mgt. Studies, Turin, Italy, 53-59. Consult, War Manpower Cmn, 44. Econ. Soc; Soc. Adv. Mgt; Mgt. Asn; Indust. Rels. Res. Asn; Inst. Mgt; Inst. Mgt. Sci. Personnel and executive management. Publ: Personnel management; co-auth, Introduction to business & Elements of managerial action. Address: College of Business Administration, University of Arizona, Tucson, Ariz. 85721.

JUDAH, PROF. CHARLES, b. Vincennes, Ind, Feb. 2, 02. POLITICAL SCIENCE. A.B, Illinois, 25, A.M, 26, Ph.D, 29; King's Col.(London), 26-27. Asst. prof, East. Ill. State Teachers Col, 29-30; Soc. Sci. Res. Coun. fel, 30-31; prof, New Mexico Highlands, 31-47; assoc. prof. polit. sci, NEW MEXICO, 47-51, PROF. GOVT, 51-, ACTING CHMN. DEPT, 66- Republican party in New Mexico. Address: Dept. of Government, University of New Mexico, Albuquerque, N.Mex. 87106.

JUDD, PROF. ROBERT C(ARPENTER), b. Hamakuapoko, Hawaii, July 6, 21; m. 43, 63; c. 7. MARKETING. A.B, Chicago, 42; Bradley, 47-50; Ph.D. (mkt), Wisconsin, 63. Statist. mgr, Shaw Box Crane & Hoist Div, Manning, Maxwell & Moore, Inc, 43-45; mkt. res. mgr, R.C. Letoureau, Inc, 45-47; instr. statist. & mkt, Bradley, 47-50; supvr. spec. risks, Continental Casualty Co, 50-52; asst. to v.pres, Mutual of Omaha, 52-55; east. regional mgr, Fed. Life & Casualty Co, 55-57; asst. prof, mkt. & statist, Beloit Col, 57-62; mkt. & advert, Nebraska, 62-63; quant. mkt. & sales mgt, DePaul, 63-66; assoc. prof. consumer behav. & quant. methods, Northern Illinois, 66-68; PROF. QUANT. ANAL, RES. METHODS & DESIGN, TOLEDO, 68- Asst, bur. bus. res, Wisconsin, 57-60. Summers, Int. Bus. Mach. Corp-Tulane fel. quant. methods, 63, Am. Asn. Adv. Agencies cent. regional res. fel, 64 & Bank Pub. Rels. & Mkt. Asn. fel, 68. Statist. Asn; Mkt. Asn; Opers. Res. Soc. Operations research applications to marketing; statistical analysis and market analysis, especially service industries. Publ: The case for redefining services, J. Mkt, 1/64; Patterns in smaller city promotion of retail trade, J. Retailing, fall 64; Telephone usage and survey research, J. Adv. Res, 12/66. Address: Dept. of Quantitative Analysis, University of Toledo, Toledo, Ohio 43606.

JUDEK, PROF. STANISLAW, b. Oberhausen, Germany, Apr. 20, 16; Can. citizen; m. 52; c. 6. ECONOMICS. M.A, St. Andrews, 44; Ph.D.(econ), Edinburgh, 47. Asst. lectr. ECON, Edinburgh, 48-50; assoc. prof, St. Francis Xavier, 50-53; PROF, OTTAWA, 53- Can. Coun. sr. fel, 67-68. Res. assoc, Royal Cmn. Coasting Trade, Can, 55-56; Royal Cmn. Newf. Finances, Can, 57; Royal Cmn. Health Serv, Can, 61-63. Polish Forces, 39-45, Lt. Econ. Asn; Can. Polit. Sci. Asn; Inst. Pub. Admin, Can. Unemployment; manpower development and policies. Publ: Medical manpower in Canada, Queen's Printer, Ottawa, 64; co-auth, Canada: an appraisal of its needs and resources, Toronto Univ. & Twentieth Century Fund, 65; auth, Manpower training requirements for Nova Scotia, 1970 and 1975, N.S. Dept. Labour, 66. Address: Faculty of Social Sciences, University of Ottawa, Ottawa 2, Ont, Can.

JUDGE, PROF. G(EORGE) G(ARRETT), b. Carlisle, Ky, May 2, 25; m. 50; c. 2. AGRICULTURAL ECONOMICS. STATISTICS. B.S, Kentucky, 48; M.S, Iowa State, 49, Ph.D.(econ, statist), 52. Asst. prof. AGR. ECON, Connecticut, 51-55; from assoc. prof. to PROF, Okla. State, 55-59; ILLINOIS, URBANA, 59- Soc. Sci. Res. Coun. fel, Yale, 58-59; Nat. Sci. Found. sr. fel, London Sch. Econ, 65-66. U.S.A.A.F, 43-45. Economet. Soc; Agr. Econ. Asn. (book rev. ed, 56-59). Formulation and application of statistical models; estimation of behavior relations; spatial equilibrium models; stochastic processes; Bayesian estimators. Publ: Co-auth, Equilibrium among spatially separated markets: a reformulation, Econometrica, 64, On estimating the transition probabilities of a Markov process, Am. Agr. Econ. J, 65 & Inequality restrictions in regression analysis, J. Am. Statist. Asn, 66. Address: 1117 Mayfair Rd, Champaign, Ill. 61820.

JUDKINS, PROF. BARBARA E(LIZABETH), Guid, see 10th ed, Soc. & Behav. Vols.

JUDKINS, FORREST HAMILTON, Elec. Eng, see 11th ed, Phys. & Biol. Vols.

JUDSON, PROF. T. ANDREW, b. Grande Prairie, Alta, June 10, 24; m. 48; c. 3. ECONOMICS. B.Sc, Manitoba, 45; M.A, Toronto, 47, Soc. Sci. Res. Coun. Can. fel. & Ph.D.(econ), 61. Lectr. ECON, Brandon Col, Manitoba, 49-50; Saskatchewan, 50-51; spec. lectr, McMaster, 52-53; asst. prof, BISHOP'S (CAN), 53-58, assoc. prof, 58-65, PROF, 65-, HEAD DEPT, 53- Dean faculty soc. sci. & head dept. econ, Univ. Guyana, 66-67. Summers, Can. Coun. res. grant, 64, consult, inst. econ. res, Queen's (Ont), 64, Can. Govt. external aid prog, Fisheries Plant Proj, Malaysia, 65. Am. Econ. Asn; Can. Econ. Asn; Can. Inst. Int. Affairs: Inst. Pub. Admin. Can. Microeconomics; fisheries economics; cooperatives. Address: Dept. of Economics, Bishop's University, Lennoxville, Que, Can.

JUDY, PROF. MARVIN T(HORNTON), b.Thayer, Mo, July 10, 11; m. 34; c. 2. RURAL SOCIOLOGY. A.B, Cent. Col.(Mo), 33; B.D, Eden Theol. Sem, 46; M.S, Iowa State Col, 52; D.D, Cent. Col, 64. Pastor, Methodist Church, Mo, 33-42; Wesley Methodist Church, 42-46; dir. Harrison Co. Larger Parish, 46-51; town & country work, Methodist Church, Iowa, 51-52; PROF. SOCIOL. OF RELIG, PERKINS SCH. THEOL, SOUTHERN METHODIST, 52-, DIR. CENTER RES. & PLANNING, 67- Lilly Endowment res. grant, 64-68; Methodist Interagency Cmt. res. grant, 66-67. Tech. consult, dept. res. & survs, Methodist Church. Rural Sociol. Soc; Sociol. Asn; Soc. Sci. Study Relig. Sociology of religion, of religious institutions and of leadership. Publ: The larger parish and group ministry, 59, The cooperative parish in nonmetropolitan areas, 67 & The multiple staff ministry, 69, Abingdon. Address: Perkins School of Theology, Southern Methodist University, Dallas, Tex. 75222.

JUDY, PROF. RICHARD W, b. Ellsworth, Kans, Oct. 16, 32; m. 54; c. 4. ECONOMICS, COMPUTER SCIENCE. A.B, Kansas, 54, M.A, 55. Res. fel, Russian Res. Center, Harvard, 59-61, teaching fel, univ, 60-61; asst. prof. logistic mgt, inst. tech. & head digital comput. lab, Air Univ, 61-64; from assoc. prof. to PROF. ECON. & COMPUT. SCI, TORONTO, 64- Vis. asst. prof, Antioch Col, 62-63; Colorado, summer 63; Ford Found. res. grant, 68. Consult, Rand Corp, 67; Privy Coun. Can, 67. Mem. soc. sci. sub-cmt, Nat. Adv. Cmt. Water Resources Res, 68-71. U.S.A.F, 61-64, Capt. Am. Econ. Asn; Can. Econ. Asn; Inst. Mgt. Sci; Economet Soc. Soviet economic cybernetics; problems of resource allocation in higher education; economic problems of water resources management. Publ: Communist agriculture, crisis and change, For. Policy Asn, 63; co-auth, A new tool for educational administrators, Univ. Toronto, 65; auth, Information, control and Soviet economic management, In: Mathematics and computers in Soviet economic planning, Yale, 67. Address: Dept. of Political Economy, Room 3015, Sidney Smith Hall, University of Toronto, Toronto 5, Ont, Can.

JUERGENSMEYER, DR. J(OHN) E(LI), b. Stewardson, Ill, May 14, 34. POLITICS, PUBLIC LAW. A.B, Illinois, 55; Merrill Found. fel. & M.A, Princeton, 57, univ. fel. & Ph.D.(polit), 60; J.D, Illinois, 63. Asst. to State Auditor, Ill, 54-55; instr. Am. Govt, Col. Gen. Studies, Hawaii, 59-60; campaign asst, Ill, 60; instr. polit. sci, exten. div, Illinois, 61-63; ASSOC. PROF. CONSTITUTIONAL LAW & POLIT. SCI, JUDSON COL.(ILL), 63- Sr. partner, Juergensmeyer, McGuinn, Chase & Wotan, 64- U.S.A.F, 58-60, Res, 60-, 1st Lt. Polit. Sci. Asn; Asn. Pub. Opinion Res; Econ. Asn. American influence upon foreign public opinion; role of American political parties in democratic government; United States public law. Publ: Launching the President's people-to-people program; Campaign for the 1954 reapportionment amendment; Democracy's diplomacy: the people-to-people program. Address: Juergensmeyer, McGuinn, Chase & Wotan, Lawyer's Bldg, Suite 500, Elgin, Ill. 60120.

JUHN, DR. DANIEL SUNGIL, b. Taegu, Korea, Sept. 22, 34; m. 62; c. 1. MANAGEMENT, MARKETING. B.A, George Washington, 59, M.B.A, 63, D.B.A. (mgt), 65. ASST. PROF. MGT, LA. STATE, NEW ORLEANS, 65-, DIR. INT. MKT. INST, 67- Dir. human rels. training prog. first-line supervisors, Boeing Co, 67; consult. human rels. training prog, Am. Can Co, 68. Mkt.

Asn. Role of entrepreneurship in developing countries; export promotion techniques for developing countries; organizational behavior theories. Publ: Growth and changing composition of international trade through port of New Orleans, Bur. Bus. & Econ. Res, Louisiana State, New Orleans, 68. Address: Dept. of Management, Louisiana State University, Lakefront, New Orleans, La. 70122.

JUILLERAT, DR. MONTE, b. Ind, Mar. 9, 30; m. 54; c. 4. AGRICULTURAL ECONOMICS. B.S, Purdue, 56, M.S, 58, Ph.D, 59. Asst. prof. AGR. ECON, Va. Polytech, 59-62, ASSOC. PROF, 62-66; PURDUE, LAFAYETTE & INDIANAPOLIS, 66- Found. Econ. Ed. fel, Kroger Co, Ohio, 64. U.S.N, 51-54. Agr. Econ. Asn. Livestock and grain marketing. Publ: Co-auth, Marketing, slaughter and consumption of hogs and pork products in Virginia, 63, auth, Underemployment on Virginia farms, 65 & co-auth, Optimum least-cost movement of slaughter cattle and calves in the United States with emphasis on the Southeast, 68, South. Coop. Res. Bull, Va. Agr. Exp. Sta. Address: Dept. of Agricultural Economics, Purdue University, Indianapolis, Ind. 46205.

JULIAN, DR. ANNA J, Sociol, see 10th ed, Soc. & Behav. Vols.

JULIAN, DR. JOSEPH, b. San Francisco, Calif, Apr. 8, 35; m. 61; c. 2. SOCIOLOGY. A.B, San Francisco State Col, 58; fel, Washington (Seattle), 58-60, M.A, 60, Ph.D.(sociol), 63. Acting instr. sociol, Washington (Seattle), 60-63, res. instr. nursing, 61-63; asst. prof. sociol, Kansas State, 63-66, res. prof. counseling, 66; ASST. PROF. SOCIOL, NEBRASKA, LINCOLN, 66-, res. coun. study grant, 66-67. Sociol. Asn. Complex organizations and social psychology. Publ: Co-auth, Staff perceptions of state psychiatric hospital goals, Nursing Res, 63; auth, Compliance patterns and communication blocks in complex organizations, Am. Sociol. Rev, 66; Organizational involvement and social control, Soc. Forces, 6/68. Address: Dept. of Sociology, University of Nebraska, Lincoln, Nebr. 68508.

JUMPER, DR. ROY, b. Springfield, S.C, June 5, 27; m. 57; c. 2. COMPARATIVE GOVERNMENT, POLITICAL SCIENCE. A.B. & M.A, South Carolina, 49; Fulbright scholar, Paris, 53-54; Ford Found. fel. to Indochina, 54-56; Ph.D.(polit. sci), Duke, 55. Assoc. prof. polit. sci, Wake Forest Col, 56-62; MEM. STAFF, FORD FOUND, 62- Res. fel, Center East Asian Studies, Harvard, 59-60; vis. lectr, Texas, 61-62. Consult, U.S. Dept. Army, 58-59; Int. Coop. Admin-Mich. State Univ. contract, Viet Nam, 62- U.S.A, 44-46, Sgt. Address: Ford Foundation, P.O. Box 2379, Beirut, Lebanon.

JUMPER, DR. SIDNEY ROBERTS, b. Gaston, S.C, Dec. 10, 30; m. 54; c. 1. GEOGRAPHY. A.B, South Carolina, 51, M.S, 53; Ph.D.(geog), Tennessee, 60. Instr. GEOG, South Carolina, 52-53; asst, Tennessee, 55-56, instr, 56-57; assoc. prof, Tennessee Tech, 57-62, prof. & chmn. dept. earth sci, 62-67; ASSOC. PROF. GEOG, TENNESSEE, 67- U.S.A, 53-55. Asn. Am. Geog; Nat. Coun. Geog. Ed. Geographic aspects of fruit and vegetable marketing; resource conservation and utilization. Address: Dept. of Geography, University of Tennessee, Knoxville, Tenn. 37916.

JUNG, PROF. ALLEN F, b. Chicago, Ill, July 8, 24; m. 46; c. 8. MARKETING. A.B, Loyola (Ill), 42, B.S, 44; M.B.A, Chicago, 47, Ph.D.(mkt), 57. Instr. math, Stanford, 45-46; asst. prof. mkt, Missouri, 47-48; Illinois, 48-58; dir. downtown M.B.A. prog, Chicago, 58-65; PROF. MKT. & DIR. GRAD. SCH. BUS, LOYOLA (ILL), 65- Consult, State Dept, Santiago, Chile, 61. U.S.A, 44-45. Mkt. Asn; Econ. Asn. Sales management; price policies. Publ: Price variations among automobile dealers, J. Bus, 10/59; Terms on conventional mortgage loans on existing houses, J. Finance, 9/62; Terms of conventional mortgage loans, Nat. Banking Rev, 3/66. Address: Graduate School of Business, Loyola University, 820 N. Michigan Ave, Chicago, Ill. 60611.

JUNG, DR. CLARENCE (ROBERT), JR, b. Walnut Ridge, Ark, 24; m. 47; c. 3. ECONOMICS. B.A, DePauw, 47; M.A, Ohio State, 49, fel, 52-53, Ph.D, 53. Asst. prof. econ, Coe Col, 53-55, assoc. prof. & chmn. dept, 55-56; supvr. econ. res, Standard Oil Co.(Ind), 56-60, economist, 60-65; assoc. prof. ECON, col. bus. admin, Boston, 65-66; PROF. & CHMN. DEPT, SCH. BUS. ADMIN, RICHMOND, 66- U.S.A.A.F, 43-46. Asn. Bus. Econ. Business expectations and investment decisions; business fluctuations and price theory. Publ: Investment decisions and the non-linear cycle, J. Indust. Econ; Current recession: causes and cures, Bus. Horizons; Business strategy and the business cycle, Miss. Valley J. Bus. & Econ, 3/68. Address: Dept. of Economics, University of Richmond School of Business Administration, Richmond, Va. 23173.

JUNG, DR. HWA YOL, b. Chinju, Korea, May 17, 32; m. 60; c. 2. POLITICAL SCIENCE. B.A, Emory, 57, M.A, 58; Ph.D.(polit. sci), Florida, 62. Asst. prof. POLIT. SCI. & chmn. dept, MORAVIAN COL, 62-64, ASSOC. PROF, 64- Polit. Sci. Asn. Political theory, normative and descriptive. Publ: The foundation of Jacques Maritain's political philosophy, Univ. Florida, 61; The radical humanization of politics: Maurice Merleau-Ponty's philosophy of politics, Archiv für Rechts-und Sozialphilosophie, 67; Leo Strauss' conception of political philosophy: a critique, Rev. Polit, 67. Address: Dept. of Political Science, Moravian College, Bethlehem, Pa. 18018.

JUNG, DR. JOHN, b. Macon, Ga, Apr. 2, 37. EXPERIMENTAL PSYCHOLOGY. B.A, California, Berkeley, 59; M.S, Northwestern, 60, Ph.D.(psychol), 62. Asst. prof. PSYCHOL, Calif. State Col. Long Beach, 62-65; YORK (ONT), 65-67, ASSOC. PROF, 67- Grant referee, Nat. Res. Coun. Can, 66-, Nat. Sci. Found, 66- & Defense Res. Med. Labs. Can, 66- Psychol. Asn; Psychonomic Soc. Verbal learning and behavior. Publ: Co-auth, Contemporary psychology experiments, Wiley, 66; auth, Verbal learning, Holt, 68; Experimental studies of factors affecting word associations, Psychol. Bull, 66. Address: Dept. of Psychology, York University, Toronto 12, Ont, Can.

JUNG, DR. RICHARD, b. Čáslav, Czech, June 19, 26; U.S. citizen; m. 64. PSYCHOLOGY, SOCIOLOGY. Dipl. agron, Podebrady Inst. Agron, Czech, 46; Charles Univ, Prague, 45-48; Oslo, 51-53; fel, Harvard, 55-57, Soc. Sci. Res. Coun. grant, 60, Ph.D.(soc. rels), 62. Fel, Salzburg Seminar Am. Studies, 52; res. assoc. soc. psychol, Vassar Col, 56-59; pres, Researchers Tech. Bur, Mass, 59-60; asst. prof. sociol, Pittsburgh, 60-63; assoc. prof, Rutgers, 63-64; SR. RES. ASSOC. & LECTR. SOCIOL. & ASSOC. DIR. PROG. SOC. SYSTS. ANAL, CORNELL, 64-, sr. res. assoc, dept. environ. systs. eng, 66 & 67. Univ. Pittsburgh Alumni Asn. res. grant, 62-63; acad. assoc. info. sci, Watson Res. Center, Int. Bus. Mach. Corp, 63; summer asst. prof, Columbia, 63; Rutgers Univ. Res. Coun. res. grant, 64. Consult. studies hypnosis proj, dept. psychiat, Harvard, 59-61; Calif. study correctional effectiveness, California, Los Angeles, 61-62; Nat. Capital Area United Planning Orgn, 65; unit exp. psychiat, Univ. Pennsylvania, 65-; dept. clin. serv, Mt. Sinai Med. Col, City Univ. New York, 68- Czech. Resistance, 42-45. AAAS; Psychol. Asn; Sociol. Asn; Soc. Gen. Systs. Res. Theory of action; application of cybernetics in behavioral sciences; disorders of action; psychosocial development; social control. Publ: Sociological perspectives, In: The quest for self-control, Macmillan, 65; Systems of orientation, In: Some problems in information science, Scarecrow, 65. Address: 213 McGraw Hall, Cornell University, Ithaca, N.Y. 14850.

JUNK, DR. PAUL E(DWIN), b. Plymouth, Ill, July 9, 29; m. 53; c. 3. ECONOMICS. B.A, Blackburn Col, 51; M.A, Washington (St. Louis), 54; Ph.D. (econ), Northwestern, 62. Asst. econ, Northwestern, 54-55; Brookings Inst, 55-57; economist, Fed. Reserve Bank Chicago, 57-58; asst. prof. ECON, MISSOURI, 58-62, assoc. prof, 62-67, RES. PROF, 67-, chmn. dept, 64-66. Faculty res. fel, Community Studies, Inc, Kans, 61-62; res. fel, London Sch. Econ, 67-68. Consult, State of Mo, 62- U.S.A, 51-53, Res, 53-, Capt. Econ. Asn. Public finance in metropolitan areas; severance taxation; decision making in the public sector. Publ: Taxation and industrial growth in Missouri, Bus. Govt. Rev; Monetary policy and fluctuations in trade credit, South. Econ. J, 64; co-auth, An assessment-sales ratio study for Missouri, Res. Center, Univ. Missouri, 66. Address: Dept. of Economics, University of Missouri, Columbia, Mo. 65201.

JUNKEN, DR. ELIZABETH MARGERY, b. Washington, D.C, Apr. 17, 98. PSYCHOLOGY. A.B, Goucher Col, 20; M.A, N.Y. Univ, 32, Ph.D, 53. Dir, Nassau Psychol. Serv, N.Y, 32-48; consult. psychologist, Elisabeth Morrow Sch, 48-67, dir, Morrow Ed. Center, 58-67. Psychologist, Meadowbrook Hosp, N.Y, 39-45; consult. psychologist, Riverside Church Sch, New York, 54-59; psychologist, Englewood Hosp, N.J, 55-67; chief clin. psychologist & consult, Ed. Ther. Center, Richmond, Va, 61-62. Del, Int. Psychol. Conf, Germany, 60. Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. Fel. Psychol. Asn; Soc. Proj. Tech. & Personality Assessment; Int. Coun. Psychol. Child development; language learning, evaluating five year olds for learning readiness; effect of frustration on academic achievement and of laterality preference on language learning. Publ: Therapeutic tutoring, Reading Teacher. Address: Box 275, Southampton, N.Y. 11968.

JUNKER, DR. BUFORD H(ELMHOLZ), b. New York, N.Y, Sept. 19, 11; m. 49. SOCIOLOGY. A.B, Harvard, 33; Gen. Ed. Bd. fel, California, 40-41; Ph.D. (sociol), Chicago, 54. Asst. dir, Soc. Res, Inc, Chicago, Ill, 46-49; dir. proj. field training, Ford Found. Soc. Sci, 51-52; dir. philanthropy study, Community Survs, Inc, 55-56; vis. lectr, dept. sociol, Kentucky, 56-57; lectr, dept. sociol. & anthrop. & res. assoc. admin. sci. center, Pittsburgh, 57-59; teacher SOCIOL, CHICAGO CITY COL, 59-63, PROF, SOUTHEAST CAMPUS, 63-, chmn. dept. soc. sci, 63-67. Res. assoc. & instr, Chicago, 48-51, 51-52, 54. U.S.A, 41-45, Maj. AAAS; Sociol. Asn; Anthrop. Asn; Soc. Appl. Anthrop. Social anthropology; human development. Publ: Field work, an introduction to the social sciences; co-auth, Community Chest: a case study in philanthropy; co-ed, Comparative studies in administration. Address: Dept. of Sociology, Chicago City College, Southeast Campus, 8600 S. Anthony Ave, Chicago, Ill. 60617.

JUODEIKA, PROF. V(LADAS), b. Grinkiskis, Lithuania, Aug. 25, 00. POLITICAL SCIENCE. State Univ. Lithuania, 23-24, LL.M, 42; Montpellier (France), 24-25; Ph.D, Graz, Austria, 27. Mem. staff. Inst. Polit. & Soc. Studies, Kaunas, Lithuania, 33-40; asst. prof. econ, Univ. Lithuania, 42-44; inst. mod. langs. & polit. sci, St. Benedict's Col, 46-48; assoc. prof. polit. sci. & head dept, Briar Cliff Col, 48-49; ASSOC. PROF. POLIT. SCI, PORTLAND, 49- Price adminstr, Govt. Lithuania, 35-40. Polit. Sci. Asn. Political and economic theories; international relations; history of Russia. Address: 4331 N.E. Couch St, Portland, Ore. 97213.

JUOLA, PROF. ARVO E, b. Astoria, Ore, Aug. 19, 22; m. 52; c. 2. EDUCATIONAL PSYCHOLOGY, PSYCHOLOGICAL MEASUREMENT. B.S, Washington (Seattle), 47; M.A, California, 53, Ph.D, 55. Asst. prof. ed, Univ. Kansas City, 54-55; lectr. ed. psychol, Wisconsin, 55-56; assoc. prof. ed. & eval, MICH. STATE, 56-64, PROF. EVAL. & RES, 64- U.S.N, 43-46. Psychol. Asn; Personnel & Guid. Asn; Col. Personnel Asn; Ed. Res. Asn; Asn. Measurement & Eval. Guid. Psychological measurement in the cognitive and non-cognitive areas; ability tests in colleges. Publ: Examination skills and techniques, Cliff's, 68; Selection, classification and placement of student's, In: Evaluation in higher education; Illustrative problems in college-level grading, Personnel & Guid. J, 68. Address: 957 Delridge Rd, East Lansing, Mich. 48823.

JURAN, DR. J(OSEPH) M(OSES), b. Roumania, Dec. 24, 04; nat; m. 26; c. 4. MANAGEMENT. B.S, Minnesota, 24; J.D, Loyola (Ill), 35. Engr, West. Elec. Co, 24-41; asst. lend lease adminstr, U.S. Govt, 41-43, asst. for. econ. adminstr, 43-45; prof. mgt. eng. & chmn. dept, N.Y. Univ, 45-52; CONSULT, MGT. ENGR, 45- Lectr, numerous Am. & for. univs. Mem. bd. dirs, various indust. co. Alumni Medal, Univ. Minnesota, 54; Scroll Appreciation, Japanese Union Scientists & Engrs, 61; 250 Anniversary Medal, Czech. Higher Inst. Tech, Prague, 62; Wallace Clark Medal, 67. Fel. Acad. Mgt; Mgt. Asn; Soc. Mech. Eng.(Worcester Reed Warner Medal, 45); Soc. Qual. Control (Edwards Medal, 62); Inst. Indust. Eng. Management organization and control. Publ: Ed, Quality control handbook, 2nd ed; auth, Managerial breakthrough; co-auth, The corporate director. Address: 860 United Nations Plaza, New York, N.Y. 10017.

JURCZAK, PROF. C(HESTER) A(NDREW), b. Carteret, N.J, May 26, 18; m. 49; c. 3. SOCIOLOGY. A.B, St. Mary's Col.(Mich), 40; Illinois, 43-44; A.M, Fordham, 48; Ph.D.(sociol), Pittsburgh, 64. Instr. SOCIOL, Col, New Rochelle, 47-51; asst. prof, DUQUESNE, 51-56, assoc. prof, 56-65, PROF,

65-, CHMN. DEPT, 62- Lectr, Fordham, 50-51. U.S.A.A.F, 42-46. Sociol. Asn; Pop. Asn. Methodology and theories; sociology of medicine. Publ: Co-auth, Principles of sociology. Address: 3157 Ashlyn St, Pittsburgh, Pa. 15204.

JURGENSEN, CLIFFORD E(UGENE), b. Sioux City, Iowa, May 26, 12; m. 38; c. 1. PSYCHOLOGY. A.B, Carleton Col, 35; M.A, Iowa, 37. Chief psychologist, Kimberly-Clark Corp, 37-45; personnel dir, MINNEAPOLIS GAS CO, 45-54, ASST. V.PRES, 54- Instr, Wisconsin, 42-45; lectr, Minnesota, 57- Prin. adv, Cent. Offs, Training Inst, Govt. of Repub. Korea, 61-62; consult, U.S. Dept. Labor, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol, 48. Fel. Psychol. Asn; Int. Asn. Appl. Psychol. Aptitude testing; personality evaluation; attitude measurement. Address: 739 Marquette Ave, Minneapolis, Minn. 55402.

JURJEVICH, DR. RATIBOR MOMCHILA, b. Ristovac, Yugoslavia, Aug. 24, 15; nat; m. 47. CLINICAL PSYCHOLOGY. B.Sc, Edinburgh, 38; M.S.W, Geo. Williams Col, 53; Ph.D, Denver, 58. Secy, YMCA, 45-50, med. center, Ill, 51-52; prog. dir, N. Side Community Center, Colo, 52-54, exec. dir, 54-58; clin. psychologist, State Training Sch. Girls, 58-60; CHIEF PSYCHOLOGIST, NEUROPSYCHIAT. CLIN, LOWRY AIR FORCE BASE, 61- Psychol. Asn. Publ: No water in my cup: experiences and a controlled study of psychotherapy with delinquent girls, Libra, 68; International handbook of direct and behavior psychotherapies, Prentice-Hall, 69; Effects of institutional training on delinquents. Address: Box 847-N, R.R. 5, Golden, Colo. 80401.

JURKAT, DR. ERNEST H(ERMAN), b. Ottloczyn, Poland, June 7, 05; nat; m. 32; c. 1. ECONOMICS, PSYCHOLOGY. Ph.D.(philos), Kiel, 31. Asst. to pres, Ferdinand Flinsch, Berlin, 33-34; mgr, Verein Berliner Kaufleute & Industrieller, 34-38; co-ed, Lettres d'Information sur L'Economie Internationale, Paris, 38, 39; res. assoc, off. pop. res, Princeton, 42-44; dir. res, Alderson & Sessions, 44-50; chief local housing mkt. anal. sect, Housing & Home Finance Agency, 50-52; dir. res, Al Paul Lefton Advert. Agency, 52; PRES, MKT. RES. SERV, INC, 54-; SR. TECH. ASSISTANCE EXPERT, REGIONAL, CITY & TRANSPORTATION PLANNING, UN DEVELOP. PROF. ORGN, 62- Consult, urban traffic & transportation bd, City of Phila; Regional Plan Asn, Inc, New York. French Army, 39-40. Statist. Asn; Regional Sci. Asn; Asn. Bus. Econ. Marketing; land use and transportation planning; population. Publ: Employment and value added in the regions or Vilayets of Turkey, 1935-60-77-85, Turkish Govt, 67; Prospects for population growth in the Near East; co-auth, How to make and interpret locational studies of the housing market. Address: UN Development Program Organization, P.K. 407, Ankara, Turkey.

JUSTER, DR. F(RANCIS) THOMAS, b. Hollis, N.Y, Aug. 17, 26; m. 57; c. 2. ECONOMICS, STATISTICS. B.S, Rutgers, 49; Ph.D.(econ), Columbia, 56. Res. analyst, U.S. Cent. Intel. Agency, 51-53; instr. ECON, Amherst Col, 53-56, asst. prof, 56-59; MEM. RES. STAFF, NAT. BUR. ECON. RES, 59- U.S.A.A.F, 45-47. Econ. Asn; fel. Statist. Asn. Analysis of consumer behavior, especially saving and spending decisions, including short-term predictions and long-term trends. Publ: Consumer anticipations and durable goods purchases; Household capital formation and financing, 1897-1962; Consumer buying intentions and purchase probabilities: an experiment in survey design. Address: 123 Essex Ave, Bloomfield, N.J. 07003.

JUSTESEN, DR. DON R(OBERT), Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

JUSTICE, DR. BLAIR, b. Dallas, Tex, July 2, 27; m. 54; c. 3. SOCIAL PSYCHOLOGY. B.A, Texas, 48; M.S, Columbia, 49; M.A, Texas Christian, 63; Ph.D.(psychol), Rice, 66. Sci. writer, Ft. Worth Star-Telegram, 50-64; sci. ed, Houston Post, 64-66; SPEC. ASST. TO MAYOR, CITY OF HOUSTON, 66- Proj. dir, grant to assess community violence, U.S. Dept. Justice, 66-67; res. assoc. psychol, Rice, 66-67, lectr. sociol, 67- Columnist, Houston Post, 66- U.S.N, 45-46. Psychol. Asn. Assessing potential for racial violence; developing programs to minimize potential; research on effects of distributive justice and injustice. Publ: Assessing potentials for racial violence & Effects of racial violence on attitudes in the Negro community, Thompson Book Co, Academic, 67. Address: Mayor's Office, City Hall, Houston, Tex. 77002.

JUSTIN, BRO. C(ORNELIUS), F.S.C, b. Brooklyn, N.Y, Jan. 21, 01. SOCIAL SCIENCE. A.B, Manhattan Col, 22; A.M, Columbia, 27. Mem. faculty, MANHATTAN COL, 32-37, prof. soc. sci. & head dept, 37-42, PROF. LABOR MGT. & HEAD DEPT, 42- Dir. Westchester Labor Sch, 46. Summers, labor specialist, U.S. Dept. State in Venezuela, 66, Colombia, 67. Mem. For. Policy Asn-World Affairs Center. Acad. Polit. & Soc. Sci; Acad. Polit. Sci. Catholic action in America; Christian democracy. Address: Dept. of Labor Management, Manhattan College, Bronx, N.Y. 10471.

JUSTMAN, DR. JOSEPH, b. New York, N.Y, Nov. 26, 11; m. 38; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, City Col. New York, 32, M.S, 35; Ph.D, Columbia, 53. Lectr. ed, City Col. New York, 34-41, res. assoc, 41-48; bur. ed. res, New York Bd. Ed, 48-56, asst. dir. bur. ed. prog. res. & statist, 56-67; ASSOC. PROF. ED, FORDHAM, 67- Mem. Coun. Except. Children. U.S.A, 43-45, Sgt. Psychol. Asn; Ed. Res. Asn; Nat. Asn. Gifted Children. Educational evaluation; gifted children. Publ: Co-auth, Evaluation in modern education & The effects of ability grouping, Teachers Col. Press, 67. Address: Dept. of Education, Fordham University, 302 Broadway, New York, N.Y. 10007.

JUSTUS, DR. FRED E(DWARD), JR, b. St. Louis, Mo, June 30, 30; m. 52; c. 3. AGRICULTURAL ECONOMICS. B.S, Illinois, 51, M.S, 52, Ph.D.(agr. econ), 55. Asst. prof, AGR. ECON, Missouri, Columbia, 57-62, assoc. prof, 62-67, prof, 67; ASSOC. PROF, KENTUCKY, 67- Vis. prof, Kentucky, 65-66; Garrett Theol. Sem, summer 64. U.S.A, 55-57. Agr. Econ. Asn. Farm organization; measuring the management factor; land values and appraisal. Address: Dept. of Agricultural Economics, University of Kentucky, Lexington, Ky. 40506.

JUTILA, DR. SAKARI T, Indust, Eng, see 11th ed, Phys. & Biol. Vols.

JUVILER, DR. PETER H(ENRY), b. London, Eng, Mar. 26, 26; U.S. citizen; m. 56; c. 2. POLITICAL SCIENCE. B.E, Yale, 48, M.E, 49; M.A, Columbia, 54, Ford Found. fels, 54-56, Ph.D.(pub. law, govt), 60; Ford Found. travel grant, U.S.S.R, 55. Instr. polit, Princeton, 57-58; researcher in law, Moscow, 58-59; instr. govt, Columbia, 59-60; polit. sci, Hunter Col, 60-61, asst. prof, 61-64; ASSOC. PROF. GOVT, BARNARD COL, COLUMBIA, 64-, faculty grant, summer 66. Inter-Univ. Cmt. Travel fel, U.S.S.R, 64; Am. Coun. Learned Socs-Soc. Sci. Res. Coun. res. grant, 64. U.S.N, 44-46. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Nat. Coun. Crime & Delinquency. Politics of deviance and of social transformation in the Union of Soviet Socialist Republics, in comparative perspective with special regard to delinquency and the family. Publ: Co-auth, Soviet policy-making: studies of communism in transition, Praeger, 67; auth, Mass education and justice in the soviet courts: visiting sessions, Soviet Studies, 4/67; Soviet families, Survey, 7/66. Address: Dept. of Government, Barnard College, Columbia University, New York, N.Y. 10027.

JUZAK, DR. TATANIA, b. Willimantic, Conn, Aug. 1, 20. CLINICAL PSYCHOLOGY. B.S, Willimantic State Teachers Col, 42; M.A, Minnesota, 44; Ph.D.(psychol), N.Y. Univ, 53. Psychologist, Kings County Hosp, 47-50; psychiat. clin, New York Domestic Rels. Court, 50-53; sr. psychologist, Bellevue Psychiat. Hosp, 53-59; CHIEF PSYCHOLOGIST, New Rochelle Guid. Center, 59-60; PSYCHIAT. INST, GRASSLANDS HOSP, VALHALLA, 60- Lectr, N.Y. Soc. Proj. Tech, 63- Consult, psychoanal. clin. training & res, Columbia, 52-60; New York Resource & Referral Serv, 54-; U.S. Info. Agency, 59-61; Health Ins. Plan Greater New York, 63-; Jewish Child Care Asn, New York, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol, 58. W.A.C, 44-46. Psychol. Asn; Inter-Am. Soc. Psychol; N.Y. Acad. Sci; Int. Coun. Psychol. Psychopathology; projective tests. Publ: Effects of praise and reproof on the generalization of learned concepts, J. Psychol. Address: 108 E. 91st St, New York, N.Y. 10028.

K

KAARET, DR. RAYMOND H, b. Nevada City, Calif, Mar. 30, 17; m. 58; c. 4. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, California, Berkeley, 39; M.P.A, N.Y. Univ, 53; Ph.D.(govt), American Univ, 58. Chief construct. analyst loan guaranty, Baltimore regional off. Vet. Admin, Md, 54-57; mgt. analyst, off. int. trade fairs, U.S. Dept. of Commerce, D.C, 58-59; ASSOC. PROF. POLIT. SCI. & CHMN. DEPT, Rockford Col, 59-62; ITHACA COL, 62- U.S.A, 41-42; U.S.A.A.F, 42-45, M/Sgt. Polit. Sci. Asn; Int. Polit. Sci. Asn; Finnish Polit. Sci. Asn. Comparative government and politics of western Europe, especially the government and politics of Finland; government and politics of the Middle East; history of political thought; American government and public administration. Address: Dept. of Political Science, Ithaca College, Ithaca, N.Y. 14850.

KAATZ, PROF. MARTIN R(ICHARD), b. Cleveland, Ohio, Apr. 16, 24; m. 47; c. 3. GEOGRAPHY. A.B, Michigan, 48, A.M, 49, Ph.D, 52; Syracuse, 49-50. Asst. prof. GEOG, CENT. WASH. STATE COL, 52-59, assoc. prof, 59-64, PROF, 64-, CHMN. DEPT, 62- Fulbright lectr, Trinity Col.(Dublin), 65-66. Summers, vis. prof, Idaho, 55, Wayne State, 59, Oregon, 62. Asn. Am. Geog; Geog. Soc. Historical and economic geography; geomorphology. Publ: Black swamp: a study in historical geography, Ann, Asn. Am. Geog; Patterned ground in central Washington preliminary report, Northwest Sci. Address: Dept. of Geography, Central Washington State College, Ellensburg, Wash. 98926.

KABACK, PROF. GOLDIE RUTH, b. Russia, May 21, 05; nat; m. 30. PSYCHOLOGY. Ph.D.(psychol. serv, guid), Columbia, 45. Instr, teachers col, Columbia, 41-45; consult. guid. & counseling, Nat. League Nursing, 45-46; from asst. prof. to PROF. ED, SCH. ED, CITY COL. NEW YORK, 46- Vis. assoc. prof, New Sch. Soc. Res, 48-62; Yeshiva, 61-64. Psychol. Asn; Personnel & Guid. Asn. Personality; counseling and guidance; education. Publ: Vocational personalities, an application of the Rorschach group method, Voc. Guid. Quart; Education, Am. J. Orthopsychiat. Address: 375 Riverside Dr, New York, N.Y. 10025.

KABAK, DR. IRWIN WILLIAM, b. New York, N.Y, May 21, 36; m. 57; c. 2. OPERATIONS RESEARCH, SYSTEMS ANALYSIS. B.Ind.E, N.Y. Univ, 56, M.Ind.E, 58, Bell Tel. Labs. fel, 63-64, Ph.D.(opers. res), 64. Mfg. trainee & cost control analyst, Mergenthaler Linotype Co, 56-58; mem. tech. staff & specialist opers. res. & traffic studies, traffic studies center, Bell Tel. Labs, 58-65; ASSOC. PROF. OPERS. RES, GRAD. SCH. BUS. ADMIN, N.Y. UNIV, 65- Opers. Res. engr, Esso Res. & Eng. Co, 57-58; pres, Modelmetrics, Inc, 67- Consult, U.S. Naval Supply Res. & Develop. Facility, 65-66; N.Y. State Pub. Works Dept, 66-67; Eastman Dillon Union Securities & Co, 66-67; U.S. Off. Ed, 66-67; U.S. Army Signal Corp, 67-; G.C. Dewey Corp, 67-; Wofac Corp, 67- Statist. Asn; Opers. Res. Soc; Inst. Mgt. Sci; Inst. Indust. Eng. Queueing theory; simulation; model building-testing and evaluating; criteria of operations and measures of effectiveness. Publ: Applications of probability: an analysis of a maintenance procedure, J. Indust. Eng, 9/66; Some further methods of discretizing the exponential distribution, Proc. Nat. Asn. Comput. Mach. Conf, 67; Blocking and delays in $M^{(n)}/M/C$ bulk queueing systems, Opers. Res, 7-8/68. Address: 109 Stephenville Pkwy, Edison, N.J. 08817.

KABAT, PROF. GEORGE JULE, SR, b. Nantes, France, Oct. 28, 12; U.S. citizen; m. 61; c. 2. SOCIOLOGY, EDUCATION. B.Ed, Winona State Teachers Col, 36; Southern California, summer 37; M.A, Colorado, 38; Ph.D, Maryland, 47. Dist. supvr, Adult Ed, Winona, Minn, 35-36; teacher, high sch, Minn, 36-38; asst. & instr. ed. & sociol, Colorado, 38-39; pres, Trinidad State Jr. Col, Colo, 39-41; instr. & dir. war prod. training, Maryland, 41-42; specialist in ed. & acting chief European sect, U.S. Off. Ed, D.C, 46-47; prof. ed. & dean col. spec. & continuation studies, Maryland, 47-49; prof. ed. & dean, Ohio Univ, 49-53; chief prog. gen. ed. develop, Dept. Army, D.C, 53-57; vis. assoc. prof. ed, California, Los Angeles, 57-58; sr. adv, Univ. Chicago-W.Pakistan Ed. Proj, 58-59; PROF. SOCIOL. & DEAN ACAD. AFFAIRS, EAST. WASH. STATE COL, 59- Guest lectr, French Univs, 52. Adv, U.S. del. first gen. conf. UNESCO, Paris, 46; adv. higher ed, Govt. Pakistan, 58-

59; U.S. Dept. State del, Inst. Int. Ed, Geneva, 46. Mem, l'Academic Française, French Minister Ed, 50. C.Eng, U.S.A, 42-46, Capt. Polit. Sci. Asn; Sociol. Asn. Publ: Ohio is out of line, Ohio Schs, 3/53; Food for thought, 2/60 & For all the children of all the people, 11/61, The Sentinel, W.Pakistan Police Quart. Address: Dept. of Sociology, Eastern Washington State College, Cheney, Wash. 99004.

KABLER, DR. J. D, Internal Med, see 11th ed, Phys. & Biol. Vols.

KABRICK, DR. RODMAN PAUL, b. Des Moines, Iowa, May 6, 21; m. 47; c. 1. PSYCHOLOGY. A.B, Simpson Col, 48; M.A, Iowa, 50, Ph.D, 54. Instr. psychol. & pediat, Iowa, 52-54; psychologist, Des Moines Child Guid. Center, 54-57; asst. prof. psychiat. & clin. psychologist, MED. CENTER, MISSOURI, 57-61, ASSOC. PROF. CLIN. PSYCHOL. & CHIEF CLIN. PSYCHOLOGIST, CHILD GUID CLIN, 61- Dir. psychol. serv, Woodhaven Home, Columbia, Mo, 64- U.S.N.R, 42-45. AAAS; Psychol. Asn; Asn. Ment. Deficiency. Personality; psychopathology. Address: Dept. of Psychiatry, University of Missouri Medical Center, Columbia, Mo. 65201.

KACMARYNSKI, PROF. LOUIS F, b. Storm Lake, Iowa, July 5, 01. ECONOMICS. A.B, Buena Vista Col, 24; scholar, Iowa, 24-25, A.M, 25; summers, Chicago, 25-37; Columbia, 37-38; Ph.D, N.Y. Univ, 41. Head dept. finance, St. Mary-of-the-Woods Col, 25-37; PROF. ECON. & HEAD DEPT, COL. NEW ROCHELLE, 37- Lectr, Iona Col, 43- Statist. Asn. Current financial problems; Securities Act of 1933. Address: Dept. of Economics, College of New Rochelle, New Rochelle, N.Y. 10805.

KACSER, DR. PAMELA HADDY, b. London, Eng, Mar. 24, 28; m. 59; c. 1. ECONOMICS. B.A, London, 49, univ. studentship, 51-53, Fulbright & Smith-Mundt fels. & Ph.D.(econ), 64; M.S, Cornell, 55. Jr. res. officer, Cambridge Univ, 55-56; asst. lectr. soc. econ, Birmingham, 56-57; res. officer & tutor, inst. statist, Oxford Univ, 57-62; instr. econ. & asst. to the dean univ. col, N.Y. Univ, 62-64; asst. prof. statist, Catholic Univ, 64-65; ASSOC. PROF. ECON, AMERICAN UNIV, 65- Wyndham Deedes travelling fel, Israel, Jordan & Turkey, 57; Rockefeller Found. fel, Princeton, 60-61; vis. lectr, Columbia, 66-67. Mem. subcmt. tech. change, President's Cmt. Manpower, 64-65; mem, UN Tech. Asst. Mission to Botswana, summer 66. Econ. Asn; Indust. Rels. Res. Asn. Manpower problems at home and abroad; labor market analysis; labor productivity; manpower problems in economic development. Publ: Co-auth, British inter-industrial earnings differentials 1924-1955, Econ. J, 3/58; auth, Prospects and implications of future changes in manpower and technology, Inst. Mgt. & Labor Rels, Rutgers Univ, 60; co-auth, Role of the federal government in technological forecasting, U.S. Govt. Printing Off, 1/66. Address: Dept. of Economics, American University, Washington, D.C. 20016.

KACZKA, DR. EUGENE EDWIN, b. Buffalo, N.Y, Dec. 9, 38; m. 62; c. 2. OPERATIONS RESEARCH. B.E.E, Rensselaer Polytech, 60, Gen. Tel. & Electronics fel. & M.S.E.E, 61, Ford Found. fel. & Ph.D.(opers. res, orgn. theory), 66; Mellon Found. fel, Carnegie Inst. Tech, 62-63. Systs. engr, Westinghouse Res. Labs, 62-63; ASSOC. PROF. MGT. SCI, MASSACHUSETTS, AMHERST, 66- Vis. summer prof, Pittsburgh, 67. Consult, Stiefle Drugs, 65; N.Y. State Bur. Pub. Works & Mass. State Tech. Serv. Agency, 66; Mass. Mutual Ins. Co, 67. U.S.A, 62-63, 1st. Lt. Inst. Mgt. Sci; Opers. Res. Soc. Am; Statist. Asn. Theory of organizations; investigation of socio-psychological processes by means of computer simulation experimentation. Publ: Co-auth, Simulation for optimizing decision-making, Indust. Mgt, 4/65, Managerial climate, workgroups and organizational performance, Admin. Sci. Quart, 9/67 & Managerial climate and organizational performance, Proc. Acad. Mgt, summer 68. Address: Dept. of Finance, University of Massachusetts, Amherst, Mass. 01002.

KACZKOWSKI, DR. HENRY R(ALPH), b. Milwaukee, Wis, Jan. 29, 24; m. 53; c. 4. GUIDANCE COUNSELING. B.S, Wisconsin, 48, M.S, 51, Ph.D.(ed), 54. Teacher, univ. high sch, De Paul, 53-57; asst. prof. sec. ed, Wisconsin, Milwaukee, 57-62; ASSOC. PROF. ED. PSYCHOL, ILLINOIS, URBANA, 62- U.S.A.F, 43-45, Res, 45-, Maj. Psychol. Asn; Personnel & Guid. Asn. Elementary school and group counseling; counseling theory. Publ: Discriminant analysis in evaluation of guidance; The current status of cumulative records; Using expectancy tables to validate test procedures in junior high school. Address: University of Illinois, College of Education, Urbana, Ill. 61820.

KADANE, DR. JOSEPH BORN, b. Washington, D.C, Jan. 10, 41. STATISTICS. B.A, Harvard, 62; Ph.D.(statist), Stanford, 66. ASST. PROF. STATIST, YALE, 66- Statist. Asn; Inst. Math. Statist. Properties of simultaneous equations econometric models; sequential and gambling problems; applications of statistics in the social sciences. Publ: Some equivalence classes in paired comparisons, Ann. Math. Statist, 4/66; co-auth, Scaling data on internation action, Science, 5/67 & Discrete search and the Neyman Pearson Lemma, J. Math. Anal. & Appln, 4/68. Address: Dept. of Statistics, Yale University, Box 2179 Yale Station, New Haven, Conn. 06520.

KADEN, DR. STANLEY E(DWARD), Psychol, see 10th ed, Soc. & Behav. Vols.

KADLEC, DR. JOHN EDWARD, b. U.S, Nov. 29, 31; m. 58; c. 2. AGRICULTURAL ECONOMICS. B.S, Purdue, 53, M.S, 57, Ph.D, 60. Asst. prof. AGR. ECON, PURDUE, 57-63, assoc. prof, 63-68, PROF, 68- U.S.A.R, 53-55, 1st Lt. Agr. Econ. Asn. Methods of farm business analysis; irrigation economics; swine management; supply response in milk production factors affecting cost of milk. Publ: Estimating supply functions for milk in the Louisville milkshed with farm cost data; Organizing a central Indiana hog farm using linear programming. Address: Dept. of Agricultural Economics, 1 Krannert Bldg, Purdue University, Lafayette, Ind. 47907.

KADRAGIC, AL M, b. Ljubuski, Yugoslavia, Aug. 5, 05; m. 38; c. 1. ECONOMICS. B.A, Sarajevo, 26; dipl, Paris, 28; M.A, Zagreb, 34. Controller, State Mortgage Bank of Yugoslavia, 32-41; financial consult, pension fund inst, Zagreb, 42-43; commercial rep, 44-47; mem. control dept, Swiss Bank Corp, 47-51; econ. analyst, N.Y, 51-54; MEM. SUPVRY. STAFF, BANK AM. INT, 55- Econ. Asn. International banking, finance and clearing system; industrial organization and management; problems of Merchant Marine financing. Publ: Our maritime economy and maritime credit; Management and business organization of shipcredit banks in the Netherlands. Address: 139 Carley Ave, Huntington, N.Y. 11743.

KADRAGIC, DR. CATHERINE S(CHAFFER), b. Vinkovci, Yugoslavia, July 17, 12; nat; m. 38; c. 1. INTERNATIONAL RELATIONS, ECONOMICS. Dipl, Belgrade, Yugoslavia, 34; Geneva, 50-51; Ph.D.(int. rel), Columbia, 56. Investment researcher, Lehman Corp, 56-57; econ. writer & ed, Kalb, Voorhis & Co, 61-66; ASSOC. PROF. ECON, NEW YORK INST. TECH, 66- Summer lectr, State Univ. N.Y. Agr. & Tech. Col. Farmingdale, 66, 67. Consult. economist, Gallatin Statist. Ann, 65, 66. Econ. Asn. International economics and politics. Address: 139 Carley Ave, Huntington, N.Y. 11743.

KADUSHIN, DR. CHARLES, b. Madison, Wis, June 5, 32; m; c. 2. SOCIOLOGY. A.B, Columbia, 53, Ph.D.(sociol), 60. From lectr. to assoc. prof. sociol, COLUMBIA, 57-67, ASSOC. PROF. SOCIOL. & ED, TEACHERS COL, 67-, ASSOC. SOCIOL. RES, BUR. APPL. SOC. RES, 57- Consult, New York City Dept. Health & City Community Health Bd; N.Y. State Dept. Ment. Hyg. Res. Unit; Inst. Int. Ed; Mkt. Res. Corp. Am. U.S.A, 53-55. Sociology of social circles; social structure and mental health. Publ: Why people go to psychiatrists, Atherton, 68; Discussion on some relations among psychiatric symptoms, organic illness and social class, Am. J. Psychiat, 6/67; Social class and ill health, the need for further research, Sociol. Inquiry, fall 67. Address: 118 Riverside Dr, New York, N.Y. 10024.

KAEHLER, DR. RICHARD CHARLES, b. Brooklyn, N.Y, Sept. 28, 32; m. 54; c. 4. ENGINEERING PSYCHOLOGY. A.B, Hofstra Col, 53, A.M, 54; Ph.D, Southern California, 60. Engr, Los Angeles Div, N.Am. Aviation, Inc, 56-58; sr. eng. psychologist, Kerckhoff Labs, Univ. Southern California, 58-60; head behav. systs. group, defense systs. div, Gen. Motors Corp, 60-62; dir. life sci, space & info. systs. div, N.Am. Aviation, Inc, 62-66; V.PRES. & GEN. MGR, RESOURCES PLANNING & CONTROL CORP, 66- Ord.C, 54-56, 1st Lt. Psychol. Asn; Aerospace Med. Asn; assoc. fel. Inst. Aeronaut. & Astronaut. Human control and problem solving abilities while exposed to unusual environmental conditions; growth and behavior of nations and the application of systems engineering techniques to problems of international conflict. Publ: Human pilot performance during boost and atmosphere reentry, Aerospace Med; Human psychomotor performance under varied transverse accelerations and exponential time-lag constants on compensatory tracking performance. Address: 4214 Stalwart Dr, Palos Verdes Estates, Calif. 90274.

KAELBLING, DR. RUDOLF, b. Ulm, Germany, July 19, 28; U.S. citizen; m; c. 2. PSYCHIATRY, ANATOMY. M.D, Tübingen, Germany, 54; M.Sc, Ohio State, 59. Instr. psychiat, OHIO STATE, 59-62, anat, 59-64, asst. prof. PSYCHIAT, 62-66, ASSOC. PROF, 66-, ASST. PROF. ANAT, 64- Cert, Ed. Coun. For. Med. Grads, 59; dipl, Am. Bd. Psychiat. & Neurol, 61. AAAS; Soc. Biol. Psychiat; Asn. Psychophysiol. Study Sleep; Am. Med. Asn; Psychiat. Asn. Psychophysiologic correlations; organic substrates of behavior, especially effects of psychotropic drugs; electroconvulsive and electrosleep treatment; physiology and pathology of sleep and dreaming. Publ: Co-auth, Eclectic psychiatry, C.C. Thomas, 66; The psychiatric aspects of hypoparathyroidism, Acta Psychiat. Scandinavia Monogr. Suppl. 164, 62; Memory and electroconvulsive therapy, Am. J. Psychiat, 65. Address: 473 W. 12th Ave, Columbus, Ohio 43210.

KAEMPFER, DEAN WALBERT WALDEMAR, b. Anderson, Mo, May 3, 23; m. 48; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. Scholar & B.P.A, Mississippi, 53; fel, Alabama, 53-54, M.A, 54, Ph.D, 57. Asst. polit. sci, West Virginia, 55-57; asst. prof. govt, Southern Methodist, 57-59; assoc. prof. polit. sci. & dir. Montgomery Center, Alabama, 59-63; prof. govt. & dean faculty, Asheville-Biltmore Col, 63-67; PROF. POLIT. SCI. & DEAN COL. ARTS & SCI, SOUTH ALABAMA, 67- U.S.A, 42-46, Sgt. Polit. Sci. Asn. Organization theory. Publ: Federal aid in West Virginia: its impact on state government; Board of public works: West Virginia plural executive; co-auth, Essays on public administration. Address: College of Arts & Sciences, University of South Alabama, Mobile, Ala. 36608.

KAESS, DR. WALTER ALBERT, b. Denver, Colo, Nov. 19, 17; m. 38; c. 2. PSYCHOLOGY. B.S, Columbia, 48, M.A, 49, Ph.D, 51. Instr. PSYCHOL, CONNECTICUT, 51-55, asst. prof, 55-61, ASSOC. PROF, 61- U.S.A.A.F, 42-45, 1st Lt. Psychol. Asn. Individual differences; perception of motion; learning. Publ: Perception of motion in the common toad; Positive and negative information on a pressey-type punchboard; Reliability, validity and individual differences in leaderless group discussion. Address: Dept. of Psychology, University of Connecticut, Storrs, Conn. 06268.

KAESTNER, PROF. NOEL F, b. Chicago, Ill, Mar. 2, 28; m. 51; c. 3. PSYCHOLOGY. B.S, Wisconsin, 50, M.S, 52, Ph.D, 54. PROF. PSYCHOL, WILLAMETTE, 54- U.S. Pub. Health Serv. res. grant, 64-67. Statistician, State Hwy. Dept, Ore, 55-60; consult. psychologist, Dept. Motor Vehicles, 60-; consult. judge, Dept. Transportation, 67- Psychol. Asn; Mgt. Asn. Applied research in the areas of driver education, drivers in fatal accidents, motorcycle drivers, and driver improvement, with emphasis on evaluation of driver interview procedures. Publ: The effectiveness of warning letters in driver improvement, 6/64, The similarity of traffic involvements of young drivers and drivers in fatal accidents, 9/67 & The Oregon driver improvement interview training and evaluation study, (in press), Traffic Safety Res. Rev. Address: Dept. of Psychology, Willamette University, Salem, Ore. 97301.

KAFKA, PROF. ALEXANDRE, b. Prague, Czech, Jan. 25, 17; m; c. 2. ECONOMICS. B.A, Oxford, 40. Prof. econ, Sao Paulo, 41-49, asst. chief Latin Am. Div, Int. Monetary Fund, 49-51; prof. econ, Univ. Brazil & dir, Brazilian Inst. Econ, Getulio Vargas Found, Rio de Janeiro, 51-56; mem, UN Secretariat, 56-61; dir, Brazilian Inst. Econ, Getulio Vargas Found, 61-63; PROF. ECON. & CHMN. DEPT, VIRGINIA, 65-; EXEC. DIR, INT. MONETARY FUND, 66- Econ. Asn. International trade and economic development with special reference to Latin America. Publ: Theoretical problems of Latin American economic growth, economic development for Latin America,

Int. Econ. Asn, 61; Stabilization policies, Univ. Chicago, 67; chap, In: Banking systems, Columbia, 54. Address: Dept. of Economics, University of Virginia, Charlottesville, Va. 22903.

KAFKA, DR. FRITZ, b. Austria, Mar, 25, 08; nat; m. 51; c. 1. STATISTICS. J.D, Vienna, 31, Pol.Sc.D, 34. Economist & statistician, House Dress Inst, 46; lectr. statist, City Col. New York, 46-51; statistician, U.S. Bur. Labor Statist, Wash, D.C, 51-53; sr. statistician, Chas. Pfizer & Co, Inc, New York, 53-64; statistician, U.S. Bur. Labor Statist, 64-67; SURV. STATISTICIAN, U.S. BUR. MINES, WASH, D.C, 67- U.S.A, 42-45. Statist. Asn; Oper. Res. Soc; Mkt. Asn; Regional Sci. Asn. Publ: Statistics without numbers; co-auth, Basic statistics & Das Oesterr Bausparwesen. Address: 3201 University Blvd. W, Kensington, Md. 20795.

KAFOGLIS, DR. MILTON Z(ACH), b. Lexington, Ky, May 2, 25; m. 52; c. 2. ECONOMICS. B.S, Kentucky, 49, M.A, 51; Ford Found. fel, Ohio State, 57-58, Ph.D.(econ), 58. Asst. econ. res, State Hwy. Fiscal Study, Ohio, 50-51; asst, bur. bus. res, Kentucky, 51; asst. instr. ECON, Ohio State, 52-54, instr. & assoc, bur. bus. res, 54-57; asst. prof, FLORIDA, 58-63, ASSOC. PROF, 63- Mem. equitable cost allocation cmt, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 61-64. U.S.A, 43-46. Econ. Asn. Public finance; transportation; welfare economics; highway finance. Publ: Co-auth, Welfare economics and the theory of subsidy; auth, Price theory and tax equity in highway finance, Hwy. Res. Bd. Bull; co-auth, Personal income in Ohio Counties, 1957, 1958, and 1959. Address: Dept. of Economics, University of Florida, Gainesville, Fla. 32603.

KAGAN, PROF. JEROME, b. Newark, N.J, Feb. 25, 29; m. 51; c. 1. PSYCHOLOGY. B.S, Rutgers, 50; Ph.D.(psychol), Yale, 54; Guggenheim summer fel, 53; hon. A.B, Harvard, 64. Instr. psychol, Ohio State, 54-55; psychologist, U.S. Army Hosp, West Point, 55-57; res. assoc, Fels Res. Inst, 57-59, chmn. dept. psychol, 59-64; PROF. PSYCHOL, HARVARD, 64- U.S.A, 55-57. AAAS; Psychol. Asn; fel. Soc. Res. Child Develop. Human development, especially personality. Publ: Co-auth, Contemporary issues in thematic apperceptive methods, C.C. Thomas, 61, Birth to maturity, Wiley, 62 & Child development and personality, Harper, 63. Address: William James Hall, Harvard University, Cambridge, Mass. 02138.

KAGAN, PROF. NORMAN I(RWIN), b. New York, N.Y, May 2, 31; m. 51; c. 2. COUNSELING. B.S, Queens Col.(N.Y), 52; cert, Bank St. Col, 53; Ph.D. (counseling), 60. Teacher, Hawthorne Cedar Knolls Sch, 53-59; counsr. & psychologist, Bd. Coop. Ed. Serv, 59-61; instr. counseling ed. N.Y. Univ, 59-61 asst. prof, MICH. STATE, 61-67, PROF. ED, 67- Consult, U.S. Off. Ed, 63-, res. grants, 64-67, field reader, bur. res, 66- Personnel & Guid. Asn; Psychol. Asn. Group counseling; teacher and counselor education; interpersonal process recall techniques; stimulated recall studies using television; simulation of interpersonal fears and desires in counseling. Publ: Co-auth, IPR-stimulated recall by videotape, Mich. State Univ, 65, Stimulated recall in therapy, 63 & auth, Three dimensions of counselor encapsulation, 64, J. Counseling Psychol. Address: College of Education, 434 Erickson Hall, Michigan State University, East Lansing, Mich. 48823.

KAGAN, DR. SIOMA, b. Riga, Russia, Sept. 29, 07; nat; m. 47; c. 2. ECONOMICS. Dipl, Tech. Hochsch, Berlin, 31; M.A, American Univ, 49; Ph.D. (econ), Columbia, 54. Asst, Heinrich Hertz Inst, Berlin, 31-33; partner, Lab. Electro-Acoustique, Neuilly, France, 33-40; chief, French Mission Telecommun. & mem. bd, French Supply Coun, Wash, D.C, 44-45; mem. telecommun. adv. bd. & econ. affairs officer, UN, 46-48; econ. consult, 51-60; PROF. INT. BUS, Oregon, 60-67; MISSOURI, ST. LOUIS, 67- Lectr, Col. de France, 34-35; assoc. prof, Washington (St. Louis), 56-59; lectr, adv. mgt. courses, Gen. Elec. Co, 57-; exec. develop. progs, grad. sch. bus, Columbia, 59-; exec. develop. progs, Prudential Ins. Co, 59-; Nationwide's Adv. Mgt. Ed, 62- Staff economist, Joint Coun. Econ. Ed, 59-60. Consult, Int. Paper Co, Arabian Am. Oil Co, Sun Oil Co, Nationwide Ins. Co. & Prudential Ins. Co. Mem, Inst. Develop. Execs. Argentina, 62; Am. Assembly, Arden House, 63. Cert. appreciation, Coun. Int. Progress Mgt, 63. Free French Forces, 41-43, chief sig. officer. Econ. Asn; Nat. Asn. Bus. Econ; Acad. Polit. Sci; Asn. Ed. Int. Bus; fel. Latin Am. Studies Asn; Asn. Asian Studies. Economic development of underdeveloped areas; demography; energy; international business operations. Publ: Co-auth, Partners in progress, Industrial potentials of Eire & Stanvac in Indonesia. Address: School of Business, University of Missouri, St. Louis, Mo. 63121.

KAGY, PROF. VIRGINIA L(UCIE), b. Denver, Colo, Aug. 15, 04. CHILD PSYCHOLOGY. B.A, Drake, 27; M.S, Iowa State Col, 35; fel, Hopkins, 37-38, Ph.D.(psychol), 38. State supvr. nursery schs, Works Progress Admin, Md, 38-42; PROF. HOME ECON. & DIR. NURSERY SCH, ARIZONA STATE, 47- AAAS; Soc. Res. Child Develop; Home Econ. Asn. Development of thinking and reasoning processes by children of varying age groups. Address: Dept. of Home Economics, Arizona State University, Tempe, Ariz. 85281.

KAHANE, DR. MURRAY, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

KAHIN, PROF. GEORGE McT(URNAN), b. Baltimore, Md, Jan. 25, 18; m. 42, 67; c. 2. GOVERNMENT, INTERNATIONAL RELATIONS. B.S, Harvard, 40; Fletcher Sch. Law & Diplomacy, 41; M.A, Stanford, 46; Ph.D, Hopkins, 51. Asst. prof, Hopkins, 50-51; asst. prof. GOVT. & exec. dir. Southeast Asia Prog, CORNELL, 51-54, assoc. prof, 54-59, PROF, 59-, DIR, MOD. INDONESIA PROJ, 54-, SOUTHEAST ASIA PROG, 61-, assoc. dir, 54-60. Soc. Sci. Res. Coun. fel, 48-49; mem. faculty, Salzburg Seminar, 56. Consult, Rockefeller Found, 64-66. U.S.A, 42-45. Comparative government and international relations, especially Asia; United States Far Eastern policy. Publ: Nationalism and revolution in Indonesia; ed, Major governments of Asia; co-auth, The United States in Vietnam, Dial, 67. Address: Dept. of Government, Cornell University, Ithaca, N.Y. 14850.

KAHL, PROF. JOSEPH A(LAN), b. Chicago, Ill, July 26, 23. SOCIOLOGY. A.B, Chicago, 47, A.M, 48; fel, Harvard, 49-51, Ph.D.(sociol), 52. Instr. sociol. & gen. ed, Harvard, 51-54; asst. prof. soc. sci. in nursing, North Carolina, 54-55; vis. prof, Mexico City Col, 55-56; from asst. prof. to PROF. SOCIOL, WASHINGTON (ST. LOUIS), 56- Sociologist from UNESCO, Latin-Am. Center Res. Soc. Sci, Brazil, 60; summers, vis. prof, Orgn. Am. States Prog. Appl. Soc. Sci, Mex, 61, 62. U.S.A, 43-46. Sociol. Asn. Social stratification; social concomitants of industrialization in Latin America. Publ: American class structure; ed, La industrializacion en America Latina, Fondo, Mex, 65; auth, The measurement of modernism, Univ. Texas, 68. Address: Dept. of Sociology, Washington University, St. Louis, Mo. 63130.

KAHLE, PROF. LOUIS G(EORGE), b. St. Louis, Mo, Nov. 20, 12; m. 38; c. 1. POLITICAL SCIENCE. B.A, Texas, 35, B.S, 35, M.A, 37, fel. & Ph.D, 51. Instr. mod. langs, Wentworth Mil. Acad, 36-40; POLIT. SCI, MISSOURI, 46-49, asst. prof, 50-53, assoc. prof, 53-58, PROF, 58-, chmn. dept, 64-67. Res. analyst, Off. Strategic Servs, 42-45. U.S.A, 43-45. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Foreign policy, especially of Latin America and Mexico; international relations; United States recognition policy; international regional systems. Address: 112 W. Ridgeley Rd, Columbia, Mo. 65201.

KAHLER, PROF. C(LYDE) M(cCARTY), b. Millersburg, Pa, Apr. 13, 01; m. 29. BUSINESS ECONOMICS. B.S, Pennsylvania, 22, A.M, 25, Ph.D.(ins), 30. Instr. ins, PENNSYLVANIA, 22-30, asst. prof, 30-41, assoc. prof, 41-51, prof, 51-66, dir. univ. personnel index, 44-47, grad. div. bus. & govt. admin, Wharton Sch, 51-53, v.dean, 53-55, chmn. ins. dept, 55-65, EMER. PROF. INS, 66- Dir, Fed. Crop Ins. Corp, U.S. Dept. Agr, 55-61. Ed. consult. & dir. ed. pubs, Am. Col. Life Underwriters, 39-46; consult, Am. Inst. Property & Liability Underwriters, 43-, trustee, 54-, secy, 64-; chmn. Pension Res. Coun, 55-65; secy. & mem. bd. gov, Ins. Inst. Am, 64- Econ. Asn. Property insurance; insurance education. Publ: Business interruption insurance. Address: 900 Weldon Lane, Bryn Mawr, Pa. 19010.

KAHLER, PROF. RUEL CONRAD, b. Detroit, Mich, May 30, 25; m. 56; c. 1. ECONOMICS. B.B.A. & M.B.A, Michigan, 49, Ph.D.(bus. admin), 59. Instr. mgt. & mkt, Mich. State, 49-59, asst. prof. mkt, 59-61, res. assoc, bur. bus. res, 53; assoc. prof. MKT, CINCINNATI, 61-67, PROF, 67- Prof. & adv, Univ. Michigan Adv. Team to Nat. Chengchi Univ, 64-65. Mkt. Asn; Econ. Asn; Asn. Ed. Int. Bus. Marketing research. Publ: Control of merchandising in food chains, Super Mkt. Merchandising. Address: College of Business Administration, University of Cincinnati, Cincinnati, Ohio 45221.

KAHN, PROF. ALFRED E(DWARD), b. Paterson, N.J, Oct. 17, 17. ECONOMICS. A.B, N.Y. Univ, 36, A.M, 37; Missouri, 37-38; Ph.D, Yale, 42. Res. asst, Brookings Inst, 40; assoc. economist, U.S. Dept. Justice, 41-42; economist, U.S. Dept. Commerce, 42; Twentieth Century Fund, 44-45; chmn. dept. ECON, Ripon Col, 45-47; asst. prof, CORNELL, 47-50, assoc. prof, 50-55, prof, 55-67, ROBERT JULIUS THORNE PROF, 67-, chmn. dept, 58-63, mem. bd. trustees, 64- Vis. mem. staff, Brookings Inst, 51-52; Fulbright res. fel, Italy, 54. Consult, Coun. Econ. Adv, 55-57; Boni, Watkins, Jason & Co, 57-61; U.S. For. Agr. Serv, 60-61; Nat. Econ. Res. Assocs, Inc, 61-; U.S. Dept. Justice, 63-64; Govt. Algeria, 65. Mem, Attorney Gen. Cmn. Study Anti-trust Laws, 54-55. U.S.A, 43. Econ. Asn. Publ: Great Britain in the world economy; co-auth, Fair competition: law and economics of antitrust policy & Integration and competition in the petroleum industry. Address: Dept. of Economics, Cornell University, Ithaca, N.Y. 14850.

KAHN, PROF. ALFRED J(OSEPH), b. New York, N.Y, Feb. 8, 19; m. 49; c. 1. SOCIAL WELFARE. B.S.S, City Col. New York, 39; B. Hebrew Lit, Sem. Col. Jewish Studies, 40; M.S, Columbia, 46, D.S.W, 52. Psychiat. soc. worker, Jewish Bd. Guardians, N.Y, 46-47; from instr. to assoc. prof. SOC. WORK, SCH. SOC. WORK, COLUMBIA, 47-54, PROF, 54- Summer mem. faculty, Smith Col, 50-54. Consult, Citizen's Cmt. Children, N.Y, 48-; U.S. Dept. Health, Ed. & Welfare, Ford Found, Inst. Pub. Admin. & state, local & for. govts. Mem, cmn. soc. work accreditation, Coun. Soc. Work Ed, 58-61; mem. & rapporteur, UN Working Party, 67. U.S.A.A.F, 42-46, Sgt. Fel. Sociol. Asn; Nat. Asn. Social Workers. Social and child welfare planning; delinquency; community mental health; history and philosophy of American social welfare. Publ: Court for children; Planning community service for children in trouble, Columbia, 63; Social planning, 2 Vols, Russell Sage Found, 68. Address: School of Social Work, Columbia University, 2 E. 91st St, New York, N.Y. 10028.

KAHN, DR. A(RTHUR), Psychol, see 11th ed, Phys. & Biol. Vols.

KAHN, PROF. C(HARLES) HARRY, b. Frankfurt, Germany, Sept. 13, 21; nat; m. 48; c. 3. ECONOMICS. B.A, Vanderbilt, 47; M.A, Wisconsin, 50, Knapp fel, 51-52, Ph.D, 57. Lectr. ECON, City Col. New York, 57-58; assoc. prof, RUTGERS, 58-63, PROF, 63- Mem. res. staff, Nat. Bur. Econ. Res, 52-; adv. panel, res. grants br, Dept. Health, Ed. & Welfare, 63-66; adv. coun, Am. Coun. Ed, 63- Fiscal consult, City of Milwaukee, 48; consult, State Legis. Coun, Wis, 50-51; Ford Found, 56-57; U.S. Treas. Dept, 61- U.S.A.A.F, 43-46. Am. Econ. Asn; Nat. Tax Asn; Royal Econ. Soc. Economic effects of government tax and spending policy at state, local and federal level. Publ: Personal deductions in the federal income tax, 60 & Business and professional income under the federal income tax, 64, Princeton; Employee compensation under the income tax, Columbia, 68. Address: Dept. of Economics, Rutgers University, New Brunswick, N.J. 08903.

KAHN, DR. DAVID F(REDERICK), b. Stamford, Conn, June 5, 14. CLINICAL PSYCHOLOGY. B.S, Connecticut, 42; M.S, Purdue, 47, Ph.D.(clin. psychol), 48. Clin. psychol. trainee, Vet. Admin, 47-49; clin. psychologist, child guid. clin, med. sch, Washington (St. Louis), 49-50; assoc. prof, Merrill-Palmer Sch, Mich, 50-53; mem. faculty psychol. dept, community guid. center, Brooklyn Col, 53-54; dir. psychol. serv. & res, Lexington Sch. for Deaf, 54-65; MEM. FACULTY HUMAN RELS, NEW SCH. SOC. RES, 65- Mem. faculty, Wisconsin, 48-49; dept. psychol, Wayne, 52-53; Am. specialist, U.S. Dept. State, S.Am, 60; lectr, Hunter Col, 60-61. Private practice psychother, 52- Consult, N.Y. League for Hard of Hearing, 56- Mem. Nat. Coun. Family Rels; World Fedn. Ment. Health. Dipl, Am. Bd. Exam. Prfnl. Psychol, 54. U.S.A, 42-45, 51-52, Capt. AAAS; fel. Psychol. Asn; Soc. Res. Child Develop; Soc. Proj. Tech; Soc. Appl. Anthrop; Geront. Soc; Soc. Sci. Study Sex; Orthopsychiat. Asn; Inter-Am. Psychol. Asn; Sociol. Asn; Group Psychother. Asn; Acad. Psychother; Acad. Polit. & Soc. Sci; N.Y. Acad. Sci. Projective techniques; psychotherapy with children and adults; personality

of the deaf. Publ: Co-auth, Effect of look and read directions upon the value of magazine advertisements & Analysis of factors related to life insurance selling, J. Appl. Psychol. Address: Apt. 16 H, 201 E. 66th St, New York, N.Y. 10021.

KAHN, EARL L(ESTER), b. Kansas City, Mo, May 30, 19. SOCIOLOGY. B.S, Harvard, 40; M.A, Chicago, 47. EXEC. DIR. SOC. RES, INC, 46-; instr, home study dept, Chicago, 51-65, lectr, univ. col, 56-59. U.S.A.A.F, 42-46, Capt. Fel. Sociol. Asn; Indust. Rels. Res. Asn. Industrial sociology; human relations training. Publ: Co-auth, Learning human relations by mail; A test of correspondence study in human relations training; Can management take it? Address: Social Research, Inc, 740 N. Rush St, Room 407, Chicago, Ill. 60611.

KAHN, HAROLD A, Health Statist, see 11th ed, Phys. & Biol. Vols.

KAHN, DR. HARRIS, b. Pittsfield, Mass, July 3, 25; m. 48; c. 2. PSYCHOLOGY. A.B, Temple, 46, M.A, 47; Ph.D.(psychol), N.Y. Univ, 51. Psychologist & dir, Psychol. State Colony, New Lisbon, N.J, 51-56; dir. psychol. dept, Johnstone Training & Res. Center, Bordentown, 56-64, clin. coordinator, 64-66; ASSOC. PROF. ED. PSYCHOL, CONNECTICUT, 66- Vis. lectr, Trenton State Col, 58-66; field training supvr, Rutgers, 61-66. Consult, hearing & speech center, St. Francis Hosp, Trenton, N.J, 58-66; pub. sch, 60-66. Psychol. Asn; Asn. Ment. Deficiency; Rehab. Asn. Somatopsychology; mental deficiency; experimental design and computer applications. Publ: Responses of normal and hard of hearing children to frustration, Except. Child; Evidence for long-term reliability of the PPVT with adolescent and adult retardates, 5/66 & co-auth, Interaction of practice and rewards on motor performance of adolescent retardates, 9/67, Am. J. Ment. Deficiency. Address: U-142, University of Connecticut, Storrs, Conn. 06268.

KAHN, HERMAN, Hist, Archival Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KAHN, HERMAN, Physics, Appl. Math, see 11th ed, Phys. & Biol. Vols.

KAHN, DR. JACOB PHILIP, Med, Psychiat, see 11th ed, Phys. & Biol. Vols.

KAHN, DR. LESSING A(NTHONY), b. Chicago, Ill, Dec. 4, 18; m. 42; c. 2. PSYCHOLOGY. B.A, Illinois, 40; univ. fel, Buffalo, 40-41, M.A, 41; U.S. Pub. Health Serv. fel, Pennsylvania, 47-49, Ph.D, 50. Technician, lab. dermat. res, Pennsylvania, 45-46; instr. psychol, Haverford Col, 46-47; U.S. Pub. Health Serv. res. fel, Phila. Gen. Hosp. & Training Sch, 48-49; mem. res. cmt. aviation psychol, Nat. Res. Coun, 49-50; opers. analyst, opers. res. off, Hopkins, 50-56; weapons syst. eval. group, Off. Secy. Defense, 56-61; mgr. proj. cloud gap, U.S. Arms Control & Disarmament Agency, 61-64; RETIRED. U.S.A.A.F, 41-45. Fel. AAAS; fel. Psychol. Asn. Operations research applied to defense and problems of national policy. Address: 8800 Glenville Rd, Silver Spring, Md. 20901.

KAHN, DR. LOUIS B, Math, Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

KAHN, PROF. MARK L(EO), b. New York, N.Y, Dec. 16, 21; m. 47; c. 4. ECONOMICS. B.A, Columbia, 42; Ph.D.(econ), Harvard, 50. Asst. prof. ECON, WAYNE STATE, 51-56, assoc. prof, 56-60, PROF, 60-, chmn. dept, 61-68. Dir. case anal, Wage Stabilization Bd, 52-53. U.S.A.A.F, 43-45, Capt. Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit. Collective bargaining problems; process of labor union growth and decline; labor relations and technological change in United States air transportation; criteria for wage determination. Publ: Seniority problems in business mergers, Indust. & Labor Rels. Rev; Contemporary structural changes in organized labor & Airline flight crews: adjustment to technological change, 66, Proc. Indust. Rels. Res. Asn. Address: Dept. of Economics, Wayne State University, Detroit, Mich. 48202.

KAHN, PROF. MARVIN W(ILLIAM), b. Cleveland, Ohio, Feb. 1, 26; m. 45; c. 2. PSYCHOLOGY. B.S, Pa. State, 48, M.S, 49, Ph.D, 52. Instr. psychol. & psychiat, Yale, 52-53, asst. prof. PSYCHOL, 53-54; sch. med, Colorado, 54-61, assoc. prof. & dir. adult sect, div. clin. psychol, 61-64; PROF, OHIO, 64- Consult, Vet. Admin. Hosps, Chillicothe & Brecksville, Ohio, 64-; field selection officer, U.S. Peace Corps, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol, 56. Fel. Psychol. Asn; fel. Soc. Proj. Tech; Orthopsychiat. Asn. Personality theory; projective tests; aggression; attitude of mental patients; personality theory. Publ: Co-auth, A factorial study of patient's attitude toward mental illness and psychiatric hospitalization, J. Clin. Psychol, 63; Factor analytic study of personality, intelligence and history characteristics of murderers, Proc. Am. Psychol. Asn, 65; Implications for a theory of adult personality from developments in psychoanalytic theory, Comprehensive Psychiat, 65. Address: Dept. of Psychology, Ohio University, Athens, Ohio 45701.

KAHN, DR. MELVIN A, b. New York, N.Y, Nov. 17, 30; m. 58; c. 3. POLITICAL SCIENCE. B.A, Florida, 52; M.A, Chicago, 58; Ph.D.(govt), Indiana, 64. Lectr. labor & polit, div. labor studies, Indiana, 59-61; asst. prof. AM. POLIT. & GOVT, Indiana State, 61-65; ASSOC. PROF, SOUTHERN ILLINOIS, 65- Miss. Valley Found. study grant, 67-68. Polit. Sci. Asn. Labor politics; legislative behavior; political parties and pressure groups; doctoral training in political science; politics in education. Publ: Co-auth, Legislative politics in Indiana, Indiana Univ, 64, Issues of state politics, Holt, 68 & Ph.D. training in political science, Midwest J. Polit. Sci, 8/68. Address: Dept. of Government, Southern Illinois University, Carbondale, Ill. 62901.

KAHN, RICHARD M, Econ, see 10th ed, Soc. & Behav. Vols.

KAHN, DR. ROBERT L(ESTER), b. Brooklyn, N.Y, June 17, 19; m. 48; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 40; M.A, Columbia, 46; Ph.D.(psychol), N.Y. Univ, 53. Res. psychologist, Mt. Sinai Hosp, 46-55; Hillside Hosp, 55-59; head, sect. psychol, div. psychiat, Montefiore Hosp, New York, 60-65; ASSOC. PROF. PSYCHOL, SCH. MED, CHICAGO, 65- Clin. psychologist, Home Aged & Infirm Hebrews, 55-; res. psychologist, off. consult. on servs. for aged, State Dept. Ment. Hyg, N.Y, 56- Consult, 52-54. U.S.A, 42-46. AAAS; Psychol. Asn; Pub. Health Asn; assoc. Acad. Psychoanal; Orthopsychiat. Asn. Psychological changes accompanying altered brain function. Publ: Denial of illness, symbolic and physiological aspects; After-imagery in defective fields of vision, J. Neurol, Neurosurg. & Psychiat; Syndrome of anosognosia, Arch. Neurol. & Psychiat. Address: Dept. of Psychiatry, University of Chicago School of Medicine, Chicago, Ill. 60637.

KAHN, PROF. ROBERT L(OUIS), b. Detroit, Mich, Mar. 28, 18; m. 40; c. 3. SOCIAL PSYCHOLOGY. A.B, Michigan, 39, M.A, 40, Ph.D.(soc. psychol), 52. Teacher, pub. schs, Mich, 40-42; from state supvr. to acting chief field div, U.S. Bur. Census, 42-48; from lectr. PSYCHOL, UNIV. & study dir, SURV. RES. CENTER to PROF. & PROG. DIR, MICHIGAN, 48- Mem. staff, Nat. Training Labs, 57-, v.chmn, nat. bd. & chmn, exec. cmt, 58-61. Psychol. Asn; Statist. Asn. Organizational behavior and mental health in industry. Publ: Co-ed, Power and conflict, Basic Books, 64; co-auth, Organizational stress: studies in role conflict and ambiguity, 64 & The social psychology of organizations, 66, Wiley. Address: Survey Research Center, Box 1248, University of Michigan, Ann Arbor, Mich. 48106.

KAHN, DR. ROY M(AX), b. New York, N.Y, June 14, 26. CLINICAL PSYCHOLOGY. A.B, Cornell, 49; A.M, Boston, 51, Ph.D, 61. Psychologist, State Div. Legal Med, 54-55; ment. health coordinator, state div. ment. hyg. & Gaebler Children's Unit, 55-63, DIR. PSYCHOL. RES, STATE DEPT. MENT. HEALTH & GAEBLER CHILDREN'S UNIT, 63- Instr. & dir. counseling, Cambridge Jr. Col, 55-57; private practice, 61-; supvr, Phillips Brooks House Case-Aide Prog, Harvard, 64- Consult, Voc. Adjustment Center, Boston, 62-; Neurosurg. Found, Brighton, 65- U.S.A, 44-46. Psychol. Asn; fel. Orthopsychiat. Asn. Creative individual; autistic child; psychotherapeutic processes; cybernetic models in child psychoses and development. Publ: Co-auth, Developmental model of information processing in the child, and A cybernetic approach to mental development in artistic children, (in press). Address: 6 Ashton Place, Cambridge, Mass. 02138.

KAHN, PROF. THEODORE C(HARLES), b. Germany, Oct. 13, 12; nat; m. 48; c. 3. PSYCHOLOGY. B.A, Yale, 35; M.A, Columbia, 40; Ph.D.(psychol), Southern California, 50; M.A, Mills Col, 53; Dr.Der.Nat.(anthrop), Mainz, 60. Chief psychologist & behav. scientist, U.S. Air Force, Sch. Aviation Med, Wiesbaden Hosp. & Wilford Hall Hosp, 50-65; PROF. BEHAV. SCI. & HEAD DEPT, SOUTH. COLO. STATE COL, 65- Lectr, Wittenberg Col, 55-56; in-serv. training, St.Mary-Corwin Hosp, 66- Consult, U.S. Air Force, 66- U.S.A, 40-46; U.S.A.F, 51-65, Maj. Fel. Psychol. Asn; Japanese Soc. for the KTSA; Int. Soc. Study Symbols (past pres). Symbols; tests of personality; psycho-physics; hominology; behavioral science. Publ: Kahn test of symbol arrangement, South. Univ, 57; co-auth, Psychological techniques in diagnosis and evaluation, Pergamon, 60; auth, Introduction to hominology, C.C. Thomas, 68. Address: Dept. of Behavioral Science, Southern Colorado State College, Pueblo, Colo. 81001.

KAHNG, DR. TAE JIN, b. Korea, June 3, 31; m. 57; c. 2. POLITICAL SCIENCE. Ph.D.(pub. law, govt), Columbia, 62. ASSOC. PROF. POLIT. SCI, SAN DIEGO STATE COL, 67- Repub. Korea Army, 50-52, 1st Lt. Polit. Sci. Asn; Soc. Int. Law. Major systemic variables and foreign policies. Publ: Law, politics and the security council, Nijhoff, The Hague, 64. Address: Dept. of Political Science, San Diego State College, San Diego, Calif. 92115.

KAHNK, DR. DONALD LEE, b. Blair, Nebr, Jan. 27, 37; m. 56; c. 4. EDUCATIONAL PSYCHOLOGY & MEASUREMENT. B.S.Ed, Midland Lutheran Col, 58; M.Ed, Nebraska, 60, Ed.D.(ed. psychol. & measurement), 66. Teacher, jr. high sch, Nebr, 58-59; admissions counsr. & dir. testing, MIDLAND LUTHERAN COL, 59-62, instr. PSYCHOL, 62-63, asst. prof, 63-66, ASSOC. PROF, 66-, DIR. TESTING & EVE. SESSION, 62- Personnel & Guid. Asn; Psychol. Asn; Nat. Soc. Study Ed; Nat. Ed. Asn. Application of psychological principles to classroom learning; prediction of academic success in institutions of higher learning. Address: Dept. of Psychology, Midland Lutheran College, 720 E. Ninth St, Fremont, Nebr. 68025.

KAIKOW, DR. JULIUS, Geog, Geol, see 11th ed. Phys. & Biol. Vols.

KAIMAN, DR. BERNARD DAVID, b. Omaha, Nebr, Mar. 30, 19. PSYCHOLOGY. B.S, Wisconsin, 52. M.S, Miami (Fla), 53; Ph.D, Tennessee, 58. Psychologist, East. State Hosp, Knoxville, Tenn, 58-59; Ment. Health Clin, Norton, Va, 59-60; from instr. to asst. prof. psychol, Clinch Valley Col, Virginia, 59-61; psychologist, VET. ADMIN CENTER, MT. HOME, 61-64, CHIEF PSYCHOL. SERV, 64- C.Eng, U.S.A, 45. Psychol. Asn; N.Y. Acad. Sci. Developmental factors in children's behavior; evaluation of the effects of psychological treatments in psychotherapy; brief intensive psychotherapy. Address: Psychology Service, Veterans Administration Center, Mountain Home, Johnson City, Tenn. 37684.

KAIN, DR. JOHN FORREST, b. Ft. Wayne, Ind, Nov. 9, 35; m. 57; c. 2. ECONOMICS. A.B, Bowling Green State, 57; M.A. & Ph.D.(econ), California, 61. Lectr. econ, exten. div, California, 59-61; res. economist, Rand Corp, 61-62; assoc. prof. ECON, U.S. Air Force Acad, 62-65; ASST. PROF, HARVARD, 65- Consult, White House Panel Civilian Tech, 61-; Rand Corp, 62-; Dept. Housing & Urban Develop, 66-; Commonwealth Bur. Rds, Australia, 67- U.S.A.F, 61-63, 1st Lt. Econ. Asn; Statist. Asn; Regional Sci. Asn; Econmet. Soc. Urban economics. Publ: Co-auth, The urban transportation problem, Harvard, 65; auth, A contribution to the urban transportation debate: an econometric model of urban residential and travel behavior, Rev. Econ. & Statist, 2/64 & Postwar metropolitan development: housing preferences and auto ownership, Am. Econ. Rev, 5/67. Address: Dept. of Economics, Harvard University, 235 Littauer Center, Cambridge, Mass. 02138.

KAISER, PROF. CARL W(ILLIAM), b. Philadelphia, Pa, Nov. 23, 05; m. 34; c. 1. INDUSTRIAL RELATIONS. B.S, Pennsylvania, 26, Ph.D, 34; summers, Chicago, 29, 30; A.M, Pittsburgh, 30. Instr. econ. & acct, Carnegie Inst. Tech, 26-28; asst. prof. econ, Washington & Jefferson Col, 28-38; PROF.

bus. admin, Russell Sage Col, 38-46; econ, Chatam Col, 46-50; BUS. ADMIN, RHODE ISLAND, 50- Sr. economist, Off. Price Admin, 42-44; chief, Nat. War Labor Bd, 44-45; instr, Army Univ, France, 45-46; lectr, grad. sch, Pittsburgh, 46-50; dir, Students Indust, Pa, 49. Econ. Asn; Indust. Rels. Res. Asn; Arbit. Asn. Collective bargaining; wage and salary administration; arbitration. Publ: History of free trade-protectionist controversy in America before 1860; Richard Jones; Iron and steel scrap industry in America, 1942-1943. Address: Dept. of Business Administration, University of Rhode Island, Kingston, R.I. 02881.

KAISER, PROF. HENRY F(ELIX), b. Morristown, N.J, June 7, 27; m. 49; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, California, Berkeley, 48, M.A, 53, Ph.D.(ed), 56. Jr. res. psychologist, California, Berkeley, 56-57; asst. prof. ed, Illinois, Urbana, 57-59, assoc. prof, 59-61, ed. & psychol, 61-64; L.L. Thurstone distinguished fel. psychol, North Carolina, 64-65; PROF. ED. PSYCHOL, WISCONSIN, 65- Vis. assoc. prof, California, Los Angeles, 61; fel, Center Adv. Study Behav. Sci, 61-62. U.S.N, 48-51, Res, 51-, Lt. Psychol. Asn; Statist. Asn; Psychomet. Soc; Psychonomic Soc. Methodology in the behavioral sicences. Address: 936 W. Johnson, Madison, Wis. 53706.

KAISER, PROF. R(ICHARD) L(AMONT), b. New Philadelphia, Ohio, Aug. 26, 23; m. 46; c. 2. PSYCHOLOGY. A.B, Bowling Green State, 48, M.A, 49; fel, Texas, 52-54, Ph.D.(psychol), 54. Instr. psychol, Bowling Green State, 49-50; psychologist, Lima State Hosp, 50; asst, U.S. Air Force contract, Texas, 51; asst. prof. psychol, Dickinson Col, 54-55; CONSULT. PSYCHOLOGIST, WILLIAM, LYNDE & WILLIAMS, 55-; PROF. PSYCHOL, MUSKINGUM COL, 59-, V.PRES. CO-CURRICULAR AFFAIRS, 67-, chmn. dept. psychol, 59-66, dir. personnel, guid, develop. & assessment, 65-67. Mershon Found. fel, ed. in nat. security, Ohio State, 66-67. U.S.A.A.F, 43-46, Lt. Psychol. Asn; Soc. Gen. Syst. Res. Adult learning; motivational counseling; perception; personality; management development and group dynamics; conciliation theory. Publ: Aspiration and performance in a simulated group atmosphere, J. Soc. Psychol; Positive view of the human element, Adv. Mgt; The conciliator in college counseling, Personnel & Guid. J, 2/68. Address: 169 Lakeside Dr, New Concord, Ohio 43762.

KAITZ, DR. EDWARD M, b. Winthrop, Mass, Jan. 3, 28; m. 53; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. M.B.A, Boston Col, 63; U.S. Pub. Health Serv. grant, Harvard, 64-66, D.B.A, 67. Res. assoc. bus. admin, Harvard, 64-65; asst. prof, Northeastern, 65-66; soc. admin, Brandeis, 66-67; SR. STAFF ASSOC, ARTHUR D. LITTLE, INC, 67- Spec. consult, Health Care Planning, Boston, Mass, 64-67; Consult, State Dept. Ed, R.I, 65-68; Model City Planning, New York, 67. Intel.C, U.S.A, 51-53. Finance Asn. Application of management sciences to the management of non-profit and government institutions. Publ: Pricing policy and cost behavior in the hospital industry, 68 & co-auth, Human renewal, urban economics and model city planning, 68, Praeger. Address: Arthur D. Little, Inc, 35 Acorn Park, Cambridge, Mass. 02140.

KAITZ, HYMAN B(ENJAMIN), b. Mass, May 17, 16; m. 49; c. 2. STATISTICS. B.A, George Washington, 42, M.A, 50; Stanford, 43; Lowell Inst, 34. Statistician, nat. income div, U.S. Dept. Commerce, 46-53; actuary, bur. employ. security, U.S. Dept. Labor, 54-58; asst. chief, statist. div, Int. Bank Reconstruct. & Develop, 58; statist. consult, manpower div, BUR. LABOR STATIST, U.S. DEPT. LABOR, 58-67, DIR. DIV. STATIST. STANDARDS, 67- Lectr, American Univ, 58- U.S. Dept. Commerce rep. assessment subcmt, President's Manpower Cmt, 64-66. U.S.A.A.F, 44-45. Statist. Asn; Economet. Soc; Econ. Soc; Royal Statist. Soc. Income distribution by size and source; labor force dynamics; time series analysis; econometrics. Publ: Contrib, Income distribution in the United States & America's needs and resources, 1955; co-auth, Size distribution of income since the mid-thirties, Rev. Econ. & Statist. Address: 7216 Beechwood Rd, Alexandria, Va. 22307.

KAKIUCHI, DR. HIROAKI G(EORGE), b. Lincoln, Calif, Aug. 9, 24; m. 52; c. 2. GEOGRAPHY. B.A, Michigan, 52, M.A, 53, Rackham fel, 56-57, Ph.D.(geog), 57; Fulbright fel, Japan, 53-54. Instr. GEOG, WASHINGTON (SEATTLE), 57-60, ASST. PROF, 60- Fulbright lectr, Japan, 63-64. U.S.A, 46-48. Asn. Am. Geog; Am. Geog. Soc; Asn. Asian Studies. Agricultural geography of Japan. Publ: Stone wall strawberry industry on Kuno Mountain, Japan, Econ. Geog; Satsuma oranges in Ocho-mura: a study of specialized cash cropping in southwestern Japan, Geog. Rev; Early-season cultivation of wet-rice in southwestern Japan, Pac. Viewpoint, 5/64. Address: Dept. of Geography, University of Washington, Seattle, Wash. 98105.

KALAMOTOUSAKIS, DR. GEORGE JOHN, b. Chios, Greece, July 26, 32; m. 60. ECONOMICS. B.A, City Col. New York, 56, M.A, 58; Ph.D.(econ), N.Y. Univ, 66. Instr. econ, Fairleigh Dickinson, 58-59; asst. prof, Ithaca Col, 59-62; chief economist, Brown Engr, 63; econ. consult, off. regional develop, State N.Y, 64-67; consult. econ, Center Planning & Econ. Res, Athens, Greece, 67-68; CONSULT. ECON, 68- Ford Found. faculty res. summer grant, 62; instr, N.Y. Univ, 63-67. Consult, Candeub, Fleissig & Assocs, 61-Econ. Asn; Acad. Polit. & Soc. Sci. Publ: O.E.D.P. for Clinton County, N.Y, Brown, 63; Economy of Cyprus and the self-determination issue; Feasibility study for the construction of a general aviation airport, ARA Case No. 13, U.S. Dept. Commerce, 8/65. Address: 124 Lakeview Ave, Lynbrook, N.Y. 11563.

KALB, DR. KLAUS, b. Hopfgarten, Germany, Oct. 29, 36. ECONOMICS, AGRICULTURAL ECONOMICS. M.Sc, Kansas State, 61; Ph.D.(econ, agr. econ), Ohio State, 64. Asst. prof. ECON, North Dakota, 65-67; ASSOC. PROF, STANISLAUS STATE COL, 67- Consult, for Peru, Agr. Res. Inc, Kans, 64; U.S. Bur. Mines, 67. Agricultural development and marketing; economic theory and policy. Publ: Collectivism, what's it like, Agr. Inst, Ohio State Univ, 2/63; co-auth, How feed dealers and farmers evaluate various strategies in purchasing feed, Feedstuffs, 5/64 & Foundations for efficient rice marketing in Peru, S.A, Agr. Res. Inc, 1/65. Address: Dept. of Economics, Stanislaus State College, Turlock, Calif. 95380.

KALB, DR. SEYMOUR, Econ, see 10th ed, Soc. & Behav. Vols.

KALBFLEISCH, DR. JAMES G, b. Galt, Ont, Sept. 12, 40; m. 63; c. 2. MATHEMATICAL STATISTICS. B.Sc, Toronto, 63; Nat. Res. Coun. Can. bursary, Waterloo, 63-64, M.A, 64, Queen Elizabeth II Ont. scholar, 65-66, Ph.D. (math), 66. Lectr. math, WATERLOO, 64-66, ASST. PROF. STATIST. & PSYCHOL, 66- Nat. Res. Coun. Can. res. grant, 67-68; Dept. Univ. Affairs res. grant, 67-68. Adj. prof, York (Ont), 67. Biomet. Soc; Can. Math. Cong; Royal Statist. Soc. Statistical inference; experimental design; applications of statistics in psychology and other fields; combinatorial mathematics. Publ: Co-auth, Use of the likelihood function in inference, Psychol. Bull, 65; auth, Upper bounds for some Ramsey numbers, J. Combinatorial Theory, 67; A uniqueness theorem for edge-chromatic graphs, Pac. J. Math, 67. Address: Dept. of Statistics, University of Waterloo, Waterloo, Ont, Can.

KALDOR, PROF. DONALD R, b. Hillsboro, N.Dak, May 6, 17. AGRICULTURAL ECONOMICS. B.S, N.Dak. State Col, 38; M.S, Va. Polytech, 39; Minnesota, 41; Ph.D, Iowa State Col, 42. Instr. & res. asst, IOWA STATE, 40-43, asst. prof. AGR. ECON, 46-48, assoc. prof, 49-56, PROF, 56- Agr. Develop. Coun. grant, 66-67. Adv, U.S. Dept. Commerce, 50; consult, Iowa-Agency Int. Develop. Peru contract, 65; Nat. Adv. Cmn. Food & Fiber, 66. U.S.A, 43-45. Agricultural policy and international economics; production economics. Publ: Co-auth, Estimation and projection of an income-efficient commercial farm industry in the North Central states, 8/66 & auth, A framework for establishing research priorities, 12/66, J. Farm Econ. Address: Dept. of Economics, Iowa State University, Ames, Iowa 50010.

KALLJARVI, DR. THORSTEN V, b. Gardner, Mass, Dec. 22, 97; m; c. 1. INTERNATIONAL RELATIONS. A.B, Clark, 20, A.M, 23; Carnegie Found. Endowment fel, Harvard, 20-22; Hague Acad. Int. Law & Geneva Sch. Int. Studies, 27, Ph.D, Berlin, 35. Prof. govt. & head dept, New Hampshire, 28-42; exec. dir, State Planning & Develop. Cmn, N.H, 42-47; staff assoc. For. Rels. Cmt, U.S. Senate, 47-53; dept. asst, secy. state, Econ. Affairs, 53-57, acting undersecy. state, 56, asst. secy. state, 57, U.S. ambassador to El Salvador, 57-61, consult. to undersecy. state, 61; prof. int. & pub. affairs, Pa. State, 62-64; DEAN FACULTY, CAPE COD COMMUNITY COL, 64- Dir, Manchester Pub. Forum, 36; sr. specialist, legis. ref. serv, Library Cong, 47-51; lectr, American Univ, 49-51; Inst. Int. Rels. Can, 51; Hopkins, 52-53. Pub. panel mem, Nat. War Labor Bd, 43-46; mem. int. cmt, U.S. Chamber Commerce, 65- Polit. Sci. Asn; Soc. Int. Law; Acad. Econ. & Polit. Sci; fel. Am. Acad. Publ: Central America: land of lords and lizards; Congress and foreign relations; co-auth, Modern world politics. Address: Seascape, Popponesset Beach & Blue Blinds, Barnstable, Mass. 02630.

KALIN, DR. RUDOLF, b. Einsiedeln, Switz, July 21, 38; m. 67. SOCIAL PSYCHOLOGY. B.A, Wesleyan, 60; A.M, Harvard, 62, Ph.D.(soc. psychol), 64. ASST. PROF. PSYCHOL, California, Davis, 64-67; QUEEN'S (ONT), 67- Psychol. Asn; Anthrop. Asn. Personal and social factors in alcohol consumption; group dynamics; cross-cultural research. Publ: Effects of alcohol on memory, J. Abnorm. & Soc. Psychol, 64 & The effects of male social drinking on fantasy, J. Personality & Soc. Psychol, 65; co-auth, A cross-cultural study of folk-tale content and drinking, Sociometry, 66. Address: Dept. of Psychology, Queen's University, Kingston, Ont, Can.

KALIS, DR. BETTY L, b. St. Joseph, Mo, July 7, 23. CLINICAL PSYCHOLOGY. A.B, Kansas, 44; M.A, California, 51, Ph.D.(psychol), 53. Jr. res. psychologist, SCH. MED, CALIFORNIA, SAN FRANCISCO, 53-54, asst. res. psychologist, 54-57, acting asst. clin. prof. MED. PSYCHOL, 47-48, asst. clin. prof. & res. specialist, 58-62, ASSOC. CLIN. PROF, 62-; SR. PSYCHOLOGIST, LANGLEY PORTER NEUROPSYCHIAT. INST, 62- Lectr, sch. dent, California, San Francisco, 58; mem. faculty, Chapman Col. Floating Campus, spring 68. Clinical psychologist, Kaiser Found. Hosp, San Francisco, 57-58; prin. investigator, Langley Porter Neuropsychiat. Inst, 59-62. Consult, Col. Physicians & Surgeons, San Francisco, 56-60. Psychol. Asn; Orthopsychiat. Asn. Community mental health; brief psychotherapy; clinical psychology. Publ: Co-auth, Precipitating stress as a focus in psychotherapy, Arch. Gen. Psychiat, 9/61, Assessing patient characteristics from psychotherapy interviews, In: Crisis intervention, Family Serv. Asn. Am, 65 and Training for community mental health in an urban setting, Am. J. Psychiat, 10/67. Address: 401 Parnassus Ave, San Francisco, Calif. 94122.

KALISH, DR. HARRY I(SIDORE), b. New York, N.Y, Apr. 4, 21; m; c. 2. PSYCHOLOGY. Ph.D.(psychol), Iowa, 52. Vis. asst. prof. PSYCHOL, Duke, 53-55; asst. prof, Missouri, 55-56; assoc. prof, Adelphi, 56-61; PROF. & CHMN. DEPT, STATE UNIV. N.Y. STONY BROOK, 61- Dipl, Am. Bd. Exam. Prfnl. Psychol, 59. U.S.C.G, 40-45. Fel. AAAS; fel. Psychol. Asn. Learning; psychopathology; fear and anxiety. Publ: Behavior therapy—handbook of clinical psychology, McGraw, 66; Discriminability and stimulus generalization, J. Exp. Psychol; Experiments in discrimination, Sci. Am. Address: Dept. of Psychology, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

KALISH, DR. RICHARD A, b. Cleveland, Ohio, Jan. 28, 30; m. 58. SOCIAL PSYCHOLOGY. B.A, Antioch Col, 51; M.A, Maryland, 54; Ph.D.(psychol), Western Reserve, 57. Asst. prof. psychol, Hawaii, 55-59; Los Angeles State Col, 59-65, assoc. prof, 65-66; ASSOC. PROF. PUB. HEALTH & ASSOC. DIR, GERONT. TRAINING PROG, SCH. PUB. HEALTH, 66- Psychol. Asn; Geront. Soc; Int. Coun. Psychol; Pub. Health Asn. Social gerontology; death attitudes; cross-cultural research with particular emphasis upon Asia and Americans of Asian ancestry; social psychology. Publ: Making the most of college, Wadsworth; The psychology of human behavior, Wadsworth, 66; Some correlates of death attitudes, J. Soc. Psychol. Address: School of Public Health, University of California, Los Angeles, Calif. 90024.

KALISKI, PROF. S(TEPHAN) F(ELIX), b. Warsaw, Poland, Nov. 4, 28; nat. Can; m. 60. ECONOMICS. B.A, British Columbia, 52; Mackenzie fel, Toronto, 53-54, M.A, 53; Soc. Sci. Res. Coun. fel, Cambridge, 56-57, Can. Soc. Sci. Res. Coun. fel, 57-58, Ph.D, 59. Statistician, Dom. Bur. Statist, Can, 51-52; lectr. econ, Queen's (Ont), 54-56; jr. res. officer, applied econ, Cambridge, 57-58; res. fel, econ. statist, Manchester, England, 58-59; asst. prof. ECON, CARLETON (CAN), 59-62, assoc. prof, 62-65, PROF, 65-, chmn. dept, 62-63, 64-66. Can. Coun. summer res. grants, 60, 61, Can. Coun. sr. fel, 66-67. Res. supvr, Royal Cmn. Taxation, 63-64. Economet. Soc; Can.

Econ. Asn; Royal Econ. Soc. Applied economics; international trade. Publ: Adjustment assistance under the U.S. trade expansion act, Can. Trade Conf, 63; Some recent estimates of the elasticity of demand for British exports, Manchester Sch. Econ. & Soc. Studies; Relation between unemployment and the rate of change of money wages in Canada, Int. Econ. Rev, 1/64. Address: Dept. of Economics, Carleton University, Ottawa 1, Ont, Can.

KALLAY, PROF. FERENCZ PAUL, b. Sabraton, W.Va, Nov. 13, 24; m. 60. GEOGRAPHY. B.A, Wayne, 50, M.A, 52; fel, Michigan, 53-55, Ph.D.(geog), 55. Asst. prof. GEOG, Alabama, 55-57; VALPARAISO, 57-59, assoc. prof, 59-65, PROF, 65-, CHMN. DEPT, 67- Fulbright res. scholar, Italy, 59-60; Ind. State Coordinator, Nat. Coun. Geog. Ed, 66- Asn. Am. Geog. Political and cultural geography; cartography. Publ: An historical evaluation of the depopulation of the island of Sardinia. Address: Dept. of Geography & Geology, Valparaiso University, Valparaiso, Ind. 46383.

KALLEJIAN, DR. VERNE (JOSEPH), b. Fresno, Calif, Sept. 26, 21. CLINICAL PSYCHOLOGY. B.A, California, Los Angeles, 48, M.A, 50, Ph.D, 53. Res. psychologist, California, 53-54; dir. ed, Am. Hosp. Asn, 54-57; training, Beltone Hearing Aid Co, 58-59; CLIN. PSYCHOLOGIST, 60- Psychol. Asn. Interpersonal relations; organization theory. Publ: Managers in transition, Harvard Bus. Rev; Human relations and performance, Pub. Personnel Rev; Group psychotherapist in industry, In: Fields of group psychotherapy. Address: 7080 Hollywood Blvd, Los Angeles, Calif. 90028.

KALLEN, DR. DAVID JOHNSON, b. Danbury, Conn, July 21, 29; m. 53; c. 2. SOCIAL PSYCHOLOGY, SOCIOLOGY. B.A, Cornell, 51; M.A, Michigan, 53, Ph.D.(soc. psychol), 58. Asst, res. center group dynamics, Michigan, 52-55, res. assoc, 55-58; Health & Welfare Coun, 58-59, res. dir, 59-62; soc. sci. analyst, prfnl. serv. br, Nat. Inst. Ment. Health, 62-64, soc. sci. consult, off. planning, 64; SCIENTIST-ADMINSTR, GROWTH & DEVELOP. BR, NAT. INST. CHILD HEALTH & HUMAN DEVELOP, 64- Sociol. Asn; Soc. Study Social Probs; Psychol. Asn. Social organization and integration; social science and social welfare; socialization. Address: Growth & Development Branch, National Institute of Child Health & Human Development, Bethesda, Md. 20014.

KALLENBACH, PROF. JOSEPH E(RNEST), b. Tuscumbia, Mo, Oct. 27, 03; m. 39; c. 3. POLITICAL SCIENCE. B.S, Cent. Mo. State Col, 26; A.M, Missouri, 28; summers, Colorado, 30, Chicago, 31; fel, Michigan, 34-39, Ph.D, 39. Instr. soc. sci, Marshalltown Jr. Col, Iowa, 28-30; govt, Iowa State Col, 30-33; instr. POLIT. SCI, MICHIGAN, 39-42, asst. prof, 42-48, assoc. prof, 48-53, PROF, 53- Polit. Sci. Asn; Am. Studies Asn; Acad. Arbit. American government, politics and constitutional law; American chief executive. Publ: Federal cooperation with the states under the commerce clause, Univ. Michigan, 42; The American chief executive: the presidency and the governorship, Harper, 66. Address: Dept. of Political Science, University of Michigan, Ann Arbor, Mich. 48104.

KALMANOFF, GEORGE, b. New York, N.Y, Sept. 17, 17; m. 40; c. 2. ECONOMICS. B.A, City Col. New York, 36, M.S, 38; American Univ, 44-53. Teacher, pub. schs, D.C. & N.Y, 36-42; economist, Off. Price Admin, 42-44; For. Econ. Admin, 44-45; chief, Mex. & Cent. Am. Trade & Invest. Serv, Off. Int. Trade, 45-50; econ. affairs officer, Econ. Cmn. Latin Am, UN, 50-53; econ. adv, Nat. Planning Off, Repub. of Colombia, 53-54; private practice, S.Am, 54-58; assoc. dir. res. projs, law sch, Columbia, 58-65; ECON. ADV, INT. BANK RECONSTRUCT. & DEVELOP, 65- Consult. & mem. U.S. Del, UN, 49-50; consult, Stanford Res. Inst, 59-60; proj. in El Salvador, Robert R. Nathan Assocs, 62; Corp. Venezolana de Guayana, 63-65; proj. in P.R, Zinder Int. Ltd, 64. Mem. U.S. Team, Trade Agreement Negotiations with Mex, 48. Econ. Asn; Soc. Int. Develop. Growth in less developed countries; international trade and finance in developing countries. Publ: Co-auth, Investment in Central America; co-ed, Joint international business ventures; co-auth, International financial aid, Columbia Univ, 66. Address: 5402 Wehawken Rd, Washington, D.C. 20016.

KALOUPEK, PROF. WALTER E(VERETT), b. Elberon, Iowa, Nov. 23, 07; m. 34; c. 1. POLITICAL SCIENCE. A.B, Iowa, 29, A.M, 36, fel, 37-38, Ph.D, 38. Prof. hist. & govt. & chmn. dept, Huron Col, 38-41; asst. prof. POLIT. SCI, NORTH DAKOTA, 41-43, assoc. prof, 44-46, PROF. & CHMN. DEPT, 46-, DIR. RES, BUR. GOVT. RES, 50-, acting head dept. polit. sci, 45-46. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Administration of Iowa highway patrol; North Dakota government. Publ: Civil defense in North Dakota, Univ. North Dakota, 66. Address: Dept. of Political Science, University of North Dakota, Box 8276, University Station, Grand Forks, N.Dak. 58201.

KALTENBORN, DR. HOWARD S(TANLEY), b. Waco, Nebr, Sept. 20, 17; m. 38; c. 3. ECONOMICS. A.B, Nebraska, 37, A.M, 38; Soc. Sci. Res. Coun. fel, 40-41; Ph.D, Wisconsin, 42. Instr. bus. admin, Nebraska, 41-42; asst. regional wage stabilization dir. & assoc. disputes dir, Regional War Labor Bd, Detroit, Mich, 43-44; wage & salary adminstr, Curtiss-Wright Corp, 44-45, dir. indust. rels, 45-50; prof. bus. admin, California, 50-52; v.pres, Indust. Rels. Counsrs. Serv, Inc, 52-58; V.PRES. PERSONNEL & PUB. AFFAIRS. & DIR, WESTINGHOUSE ELEC. CORP, 59-, v.pres. & asst. to pres, 59-63. Trustee, Indust. Rels. Counsrs, Inc. Econ. Asn; Indust. Rels. Res. Asn; Acad. Polit. Sci. Industrial relations; management. Publ: Governmental adjustment to labor disputes. Address: Westinghouse Electric Corp, 401 Liberty Ave, Pittsburgh, Pa. 15230.

KALTER, DR. ROBERT JOHN, b. Elyria, Ohio, Sept. 13, 40; m. 65; c. 1. AGRICULTURAL ECONOMICS, RESOURCE ECONOMICS. B.S, Wisconsin, 62, M.S, 64, Ph.D.(econ), 66. ASST. PROF. RESOURCE ECON, CORNELL, 66- Econ. Asn; Agr. Econ. Asn. Recreation; water resources; regional development. Publ: A model to estimate the economic effects of water-based recreation projects, summer 66 & Estimating local secondary impacts of water-based recreation investment using interindustry analysis, 6/67, Univ. Wis. Water Res. Center. Address: Dept. of Agricultural Economics, Cornell University, Ithaca, N.Y. 14850.

KALUGER, PROF. GEORGE, b. Romania, Sept. 20, 21; U.S. citizen; m. 47. PSYCHOLOGY, COUNSELING. B.S, Slippery Rock State Col, 46; M.Ed, Pittsburgh, 48, Ph.D, 50; Pa. State, summer 51 & 52, spring 64; Denver, summer 60. Teacher, pub. schs, Pa, 46-48, counsr, 48-53; PROF. PSY-, CHOL, SHIPPENSBURG STATE COL, 53- Summers, lectr, Westminster Col.(Pa), 53, vis. prof, Bowling Green State, 58, Indiana Univ. Pa, 62. U.S.A.A.F, 41-45, 1st Lt. Psychol. Asn; Ed. Res. Asn; Rehab. Asn; Personnel & Guid. Asn; Coun. Except. Children. Learning disabilities in normal children; perceptually handicapped; psychological measurements for vocational and educational purposes; characteristics of teacher education students; counseling and guidance. Publ: Co-auth, Clinical aspects of remedial reading, C.C. Thomas, 63, rev. ed, 68; Sociology and psychology for the nurse, Mosby, 68; Loneliness of the gifted child, Elem. Sch. J, 60. Address: 625 Brenton Rd, Shippensburg, Pa. 17257.

KALVODA, PROF. JOSEF, Hist, Polit. Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KAMANO, DR. DENNIS K(OSHIRO), b. Honolulu, Hawaii, Sept. 23, 28. PSYCHOLOGY. B.A, Nebr. Wesleyan, 52; M.A, Denver, 55, Ph.D.(psychol), 57. Intern, med. sch, Colorado, 56-57; instr. psychol, Denver, 56-57; supv. psychologist clin. psychol, GALESBURG STATE RES. HOSP, 57-60, training supvr, 60-62, CHIEF PSYCHOLOGIST, 62- Vis. lectr, Knox Col, 59, instr, 60-61, 64; vis. lectr, Monmouth Col, 64- Psychol. Asn; Sci. Res. Soc. Motivation and learning; experimental psychopathology and personality; projective techniques and perception. Publ: Symbolic significance of Rorschach cards IV and VII; Investigation on the meaning of human figure drawing; Self-satisfaction and psychological adjustment in schizophrenics. Address: Galesburg State Research Hospital, Galesburg, Ill. 61401.

KAMARASY, DR. EGON KIRCHNER, b. Szeged, Hungary, Mar. 19, 19; nat; m. 51; c. 2. COMPARATIVE GOVERNMENT. Dr. polit, Budapest, 42; M.A, Tulane, 53; City of London Col, Eng, 38-39; summers, Lausanne, 42-43; Erlangen, 45-47. Secy. legation, Hungarian For. Serv, 43-45; res. & ed. specialist, U.S. Info. Servs, 48-49; res. analyst & sect. chief, Off. U.S. High Cmnr. for Germany, 49-51; mem. faculty soc. sci, Gulf Park Col, 53-59; ASST. PROF. GOVT, SOUTHERN ILLINOIS, 59- Summers, lectr. & conductor, South. Study Tour Serv, 53-59. Royal Hungarian Horse Artillery, 44-45, 2nd Lt. Polit. Sci. Asn. European integration; political, economic and social position of East and West Germany. Address: Dept. of Government, Southern Illinois University, Carbondale, Ill. 62901.

KAMARCK, DR. ANDREW M(ARTIN), b. Newton Falls, N.Y, Nov. 10, 14; m. 41; c. 3. ECONOMICS, GOVERNMENT. B.S, Harvard, 36, M.A, 44, Ph.D.(polit. econ, govt), 51. Chief, nat. adv, Coun. Secretariat, U.S. Treas, 46-48, rep, Italy, 48-50; chief, Africa sect, INT. BANK RECONSTRUCT. & DEVELOP, 50-52, econ. adv, dept. opers, Europe, Africa & Australia, 53-65, DIR. ECON. DEPT, 65- U.S.A, 42-44, Capt. Econ. Asn; African Studies Asn; Soc. Int. Develop. International finance and development economics; government in underdeveloped areas. Publ: Economic development of Uganda; The economics of African development, Praeger, 67; Dollar pooling in the Sterling area, Am. Econ. Rev. Address: 7011 Meadow Lane, Chevy Chase, Md. 20015.

KAMBACK, DR. MARVIN C, b. Yankton, S.D, July 15, 39; m. 62; c. 2. PSYCHOLOGY, PHYSIOLOGY. B.A, South Dakota, 61, M.A, 62; Ph.D.(psychol), Vanderbilt, 65. Nat. Inst. Ment. Health fel. neuropsychol, med. sch, Stanford, 65-66; lectr. psychol, California, Santa Barbara, 66-67; ASST. PROF. PSYCHOL. & PHYSIOL, SOUTH DAKOTA, 67- Neuropsychological and neurophysiological bases of motivation. Publ: The effects of food deprivation and hippocampal lesions on response to stimulus change, J. Comp. & Physiol. Psychol, 66; The effects of food deprivation and prefrontal lesions on response for stimulus change, J. Exp. Neurol, 67; co-auth, Electrocortical correlates of stimulus response and reinforcement, Science, 67. Address: Departments of Psychology & Physiology, University of South Dakota, Vermillion, S.Dak. 57069.

KAMEN, DR. JOSEPH M, b. Chicago, Ill, Mar. 26, 29. PSYCHOLOGY. B.S, Roosevelt, 50; A.M, Illinois, 51, Ph.D, 55. Res. asst. psychol, Illinois, 52-54, res. assoc, 54-55; from surv. psychologist, to supvry. res. psychologist, Armed Forces Food & Container Inst, 55-63; SR. RES. ASSOC. PSYCHOL, AM. OIL CO, 63- Psychol. Asn; Psychonomic Soc. Consumer behavior; attitude change and measurement. Publ: Decision making by users of food acceptance data, Food Tech, 61; co-auth, Interaction of suprathreshold taste stimuli, J. Exp. Psychol, 61; auth, Personality and food preferences, J. Adv. Res, 64. Address: 2851 S. Parkway, Apt. 1918, Chicago, Ill. 60616.

KAMENETSKY, PROF. IHOR, b. Rohatyn, Ukraine, Jan. 2, 27; m. 57. INTERNATIONAL RELATIONS, COMPARATIVE GOVERNMENT. B.A, Williams Col, 52; East. European Fund scholar, Illinois, 54-55, M.A, 55, Garner fel, 55-57, Ph.D, 57. Asst. prof. POLIT. SCI, CENTRAL MICHIGAN, 57-61, assoc. prof, 61-65, PROF, 65- Fulbright sr. researcher, Germany, 65-66. U.S.A, 52. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Soc. Int. Develop; Int. Acad. Polit. Sci; Int. Polit. Sci. Asn. International relations; comparative government; problems of developing nations; totalitarian methods of control, patterns of expansion and objectives; Central and Eastern Europe. Publ: Hitler's occupation of Ukraine (1941-1944): study in totalitarian imperialism; Secret Nazi plans for Eastern Europe: a study of Lebensraum policies; Totalitarianism and utopia, Chicago Rev, spring 64. Address: Dept. of Political Science, Central Michigan University, Mt. Pleasant, Mich. 48858.

KAMENSKE, DR. GLORIA LEE C(HEEK), b. Battle Creek, Mich, Oct. 26, 31; m. 60. INDUSTRIAL & CLINICAL PSYCHOLOGIST. A.B, Michigan, 53; fel, Mich. State, 54-55, M.A, 55, Ph.D.(indust. psychol), 65. Proj. tech. analyst, Battle Creek Child Guid. Clin, Mich, 53; resident counsr, women's dormitory, Mich. State, 53-54, statist. asst, dept. psychol, 55-56, asst. psychol, labor & indust. rels. center, 56-58; soc. psychol. trainee, Vet. Admin. Hosp, Ann Arbor, Mich, 58-59; asst. res. psychologist, Adj. Gen. Off, 59-60; res. assoc. training methods, HumRRO, George Washington, 60-62; manpower analyst, off. manpower automation & training, U.S. Dept. Labor, 62-63; res. assoc, Bur. Soc. Sci. Res, Inc, 63-65; RES. PSYCHOLOGIST, BEHAV. SCI. SECT, COMMUNITY HEALTH SERV, U.S. PUB. HEALTH SERV, 65- AAAS; Psychol. Asn; Sociol. Asn; Pub. Health Asn; Acad. Polit. & Soc. Sci; Int.

Union Sci. Psychol. Motivation research, attitudes and surveys; teaching, diagnosis and therapy; vocational counseling; labor economics; training methods; child psychology; morale and job satisfaction; health behavior and attitudes; questionnaire and survey design. Publ: Economic and social implications of automation; co-auth, Employee attitudes toward technological change in a medium sized insurance company, J. Appl. Psychol; contrib, Open and closed mind. Address: 1523 Grace Church Rd, Silver Spring, Md. 20910.

KAMENY, AARON, b. Siedlce, Poland, Jan. 1, 08; nat; m; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 50, M.S, 51; Columbia, 51; New Sch. Soc. Res, 52. Art therapist, phys. handicapped & emotionally disturbed children, Kernan Hosp. Crippled Children, 39-42; therapist, head injuries, aphasia & paralyses, Halloran Gen. Hosp, S.I, N.Y. & Bronx Vet. Admin. Hosp, 46-48; rehab. counseling, Montefiore Hosp, 53-63; STAFF PSYCHOLOGIST, INST. CRIPPLED & DISABLED, 63- Psychol. Asn; N.Y. Acad. Sci. Disparity between unfavorable standardized test results and unexpected, successful task performance of neurologic patients; lateral asymmetry in reproduction of geometric figures; normal and brain damaged subjects; information and communication theory. Publ: 50 card test: clerical task as a screening device for organic brain damage, Arch. Phys. Med. & Rehab, 61; Normal children as aids in child psychotherapy, J. Individual Psychol, 64. Address: Institute for the Crippled & Disabled, 400 First Ave, New York, N.Y. 10010.

KAMIEN, DR. MORTON I(SAAC), b. Warsaw, Poland, Aug. 15, 38; U.S. citizen; m. 60; c. 1. ECONOMICS. B.A, City Col. New York, 60; Ph.D.(econ), Purdue, 64. Asst. prof. ECON, CARNEGIE-MELLON UNIV, 63-67, ASSOC. PROF, 67- Economic theory. Publ: A note on complementarity and substitution, Int. Econ. Rev, 64; co-auth, Optimal 'induced' technical change, Econometrica, 68; The paradox of voting: probability calculations, Behav. Sci, 68. Address: Dept. of Economics, Carnegie-Mellon University, Schenley Park, Pittsburgh, Pa. 15213.

KAMIN, DR. HERBERT S(PENCER), JR, b. Chicago, Ill, July 26, 34; m. 56; c. 4. INDUSTRIAL & BUSINESS PSYCHOLOGY. B.A, Drake, 57; M.S, Ill. Inst. Tech, 59, Ph.D.(psychol), 64. Asst, Ill. Inst. Tech, 58-59; res. analyst, Market Facts, Inc, 59-61; head res. sect, Mid-Am. Home Off, Prudential Ins. Co, 61-65; CONSULT. PRIN, FRY CONSULT, INC, 65- Instr, Coop Jr. Col, 64-65; DePaul, 64-66. Dir, Aptitude Consult, 59- U.S.A, 54-56. Psychol. Asn. Behavioral science; executive evaluation, training, motivation, recruiting and development; marketing and consumer research; screening procedures; organizational analysis and planning. Address: 757 Marion Ave, Highland Park, Ill. 60035.

KAMINS, DEAN ROBERT M(ARTIN), b. Chicago, Ill, Mar. 10, 18; m. 40; c. 2. ECONOMICS. A.B, Chicago, 40, A.M, 48, Ph.D, 50. Assoc. economist, Bd. Invest. & Res, Wash, D.C, 42-43; instr, Illinois, 46-47; assoc. prof. ECON, HAWAII, 48-54, PROF, 55-, DEAN ACAD. DEVELOP, 63-, asst. dir, legis. ref. bur, 47-54, dir, 55-59. Dir. res, Hawaii Constitutional Convention, 50; vis. prof, Inst. Soc. Studies, Netherlands, 53; admin. asst. to Senator Oren Long, 59-61; dir, Am. Asn. Indian Studies, 64-; sr. scholar, East-West Center, Univ. Hawaii, 67-68. Econ. Asn; Nat. Tax Asn. Public finance; legislative procedures; public finance of east Asian nations. Publ: Tax system of Hawaii; Impact of war on federal tax structures; Federally-based state income taxes. Address: Bachman 205, University of Hawaii, Honolulu, Hawaii 96822.

KAMINSKY, DR. ELIJAH BEN-ZION, b. Philadelphia, Pa, Jan. 12, 26; m. 62. POLITICAL SCIENCE. A.B, Harvard, 48, A.M, 50, univ. fel, 49-51, French Govt. fel, 51-52, Ph.D.(polit. sci), 62. Spec. instr. hist, Simmons Col, 52-53; instr. polit. sci. & soc. sci, Florida, 57-62, asst. prof, 62; POLIT. SCI, ARIZONA STATE, 62-65, ASSOC. PROF, 65-, COORDINATOR ADVISEMENT, OFF. DEAN, COL. LIBERAL ARTS, 66-, faculty fel, 64. Nat. Sci. Found. summer participant, conf. math. appln. polit. sci, Southern Methodist, 64; Nat. Defense Ed. Act evaluator, U.S. Dept. Health, Ed. & Welfare, 67- U.S.A, 44-46, Res, 46-52, 1st Lt. Polit. Sci. Asn; Int. Studies Asn; Soc. Pub. Admin; Int. Polit. Sci. Asn. Comparative politics and government; special interests in French presidential politics, French administration and empirical theories of democratic politics. Publ: Evaluation of presidential politics in France, West. Polit. Quart Suppl, 64; Foreign policy in the French Presidential elections of 1965, Gen. Polit. Quart, 67; Role of the social scientist in urban policy-making, In: Essays in urban affairs, Center Study Urban Systs, Arizona State Univ, 67. Address: Dept. of Political Science, Arizona State University, Tempe, Ariz. 85281.

KAMIYA, DR. JOE, b. Turlock, Calif, Aug. 9, 25; m. 50; c. 3. PSYCHOLOGY. A.B, California, 48, M.A, 50, Ph.D.(psychol), 54. Instr. psychol, Chicago, 53-56, asst. prof, 56-61; LECTR. MED. PSYCHOL, SCH. MED, CALIFORNIA, SAN FRANCISCO, 61- Asn. Psychophysiol. Study Sleep; Soc. Psychophysiol. Res; Psychol. Asn. Psychophysiology of consciousness; trained self control of electrical brain activity; theory of consciousness; behavioral and physiological aspects of sleeping and dreaming. Publ: Behavioral, subjective and physiological aspects of drowsiness and sleep, Dorsey, 61; co-auth, Electrophysiological studies of dreaming as the prototype of a new strategy in the study of consciousness, Psychol. Rev, 5/68. Address: Langley Porter Neuropsychiatric Institute, University of California Medical Center, 401 Parnassus Ave, San Francisco, Calif. 94122.

KAMM, DR. JACOB O(SWALD), b. Cleveland, Ohio, Nov. 29, 18. ECONOMICS. A.B, Baldwin-Wallace Col, 40, LL.D, 63; scholar, Brown, 41-42, A.M, 42; Ph.D, Ohio State, 48. Baldwin-Wallace Col, 45-46, asst. prof, 47-48, assoc. prof, 48, prof. & dir. sch. commerce, 48-53; exec. v.pres, CLEVELAND QUARRIES CO, 53-55, pres, 55-67, CHMN, 67-; EXEC. V.PRES, AM. SHIP BLDG. CO, 67- Econ. consult, U.S. Post Off, 51. Trustee, Baldwin-Wallace Col; Cleveland Zool. Soc, 66-; Lake Erie Jr. Nature & Sci. Center, 66-; Fairview Gen. Hosp, 66-; St. Lukes Hosp, 67- Mem. Bd. Counsrs, Erskine Col, 62; adv. bd, Natural Sci. Mus, 67- Econ. Asn; Financial Asn; Newcomen Soc. Publ: Economics of investment; Making profits in the stock market; Investor's handbook. Address: 4211 Wooster Rd, Cleveland, Ohio 44126.

KAMM, PRES. R(OBERT) B, b. West Union, Iowa, Jan. 22, 19; m. 43; c. 2. PSYCHOLOGY. B.A, Northern Iowa, 40; M.A, Minnesota, 46, Ph.D, 48. Counsr. & asst. psychol, gen. col, Minnesota, 46-48; dean students, Drake, 48-55; student personnel servs, Agr. & Mech. Col, Tex, 55-56, basic div. & student personnel servs, 56-58; col. arts & sci, OKLA. STATE, 58-65, v.pres. acad. affairs, 65-66, PRES, 66- Mem. cmn. col. student, Coun. on Ed, 57-60; bd. vis. Air Univ, 67-70. U.S.N.R, 44-46. Fel. Psychol. Asn; Col. Personnel Asn.(pres-elect, 56, pres, 57-58); Asn. Higher Ed. Counseling methodology; evaluation of student personnel programs; student behavioral patterns. Publ: Co-auth, Client acceptance of self-information in counseling & An inventory of student reaction to student personnel service, Ed. & Psychol. Measurement; auth, How effective are our student personnel programs? Personnel & Guid. J. Address: 1600 N. Monroe, Stillwater, Okla. 74074.

KAMM, DR. ROBERT L(USCOMBE), Metall, Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KAMM, PROF. S(AMUEL) R(ICHEY), b. Whitewater, Wis, July 12, 03. SOCIAL SCIENCE. A.B, Greenville Col, 25; A.M. Michigan, 27; Washington (Seattle), 30; Ph.D. Pennsylvania, 39; hon. LL.D, Seattle Pac. Col, 52, hon. D.H.L, Whitworth Col, 62. Prof. hist. & polit. sci, dean & registr, Wessington Springs Col, 25-29; prof. hist. & polit. sci. & registr, Seattle Pacific Col, 29-32; prof. soc. sci, chmn. div. & dean men, Monmouth Jr. Col, 33-34; teacher high sch, N.J, 34-40; asst. prof. polit. & soc. sci, WHEATON COL. (ILL), 40-42, PROF. HIST. & POLIT. SCI. & CHMN. DIV, 42- Wheaton Col. Alumni Asn. Res. grant, 45-46, res. fel, 63-64; Fulbright prof, Univ. Dacca, E. Pakistan, 59-60. Polit. Sci. Asn. American history and civilization; the Civil War career of Thomas A.Scott; history of Political thought; American constitutional development. Publ: The American revolution, Christianity Today, Vol. VIII, No. 20; The cultural impact of communism, Muhammad Shahidullah Felicitation Vol, Asiatic Soc. Pakistan, Dacca, E.Pakistan; A Christian perspective in the social sciences, In: Christianity and the world of thought, Moody, 68. Address: Dept. of History & Political Science, Wheaton College, Wheaton, Ill. 60187.

KAMMAN, DR. JAMES F(OSTER), b. Burlington, Iowa, Oct. 10, 15; m. 40; c. 5. PSYCHOLOGY. M.S, Iowa, 39; Ph.D.(psychol), Illinois, 53. From asst. prof. to ASSOC. PROF. INDUST. PSYCHOL, CLIN. COUNSR. STUDENT COUNSELING BUR. & SUPVR. TESTING, ILLINOIS, 40- Fulbright prof, New Delhi, India, 64-65. U.S.A.A.F, 43-46. Psychol. Asn. Clinical semantics; language development; engineering design. Publ: Co-auth, Your life plans and the armed forces; co-auth, Student services manual, U.S. Ed. Found, India, 65. Address: 707 W. Main St, Urbana, Ill. 61801.

KAMMANN, DR. RICHARD A, b. Springfield, Ill, Oct. 26, 34; m. 61; c. 1. PSYCHOLOGY. A.B, Miami (Ohio), 56; Ph.D.(psychol), Cincinnati, 64. Instr. psychol, Oakland, 63-64, asst. prof, 64-67; RES. PSYCHOLOGIST, BELL TEL. LABS, 67- U.S.N, 56-59, Res, 59-64, Lt(jg). AAAS; Psychol. Asn. Verbal association and semantics; psycholinguistics; human memory; cognitive processes and motivation; visual perception; human factors in comprehension of instructions. Publ: Verbal complexity and preferences in poetry, J. Verbal Learning & Verbal Behav, 66; co-auth, Absolute recovery of first-list responses from unlearning during 26 minutes filled with an easy or difficult information processing task, Proc. 75th Annual Convention, Am. Psychol. Asn, 67; auth, The overestimation of vertical distance and slope and its role in the moon illusion, Perception & Psychophys, 12/67. Address: Human Factors Dept, Bell Telephone Labs, Inc, Holmdel, N.J. 07733.

KAMMER, EDWARD J(OSEPH) C.M, b. New Orleans, La, Apr. 23, 08. SOCIOLOGY, ECONOMICS. A.B, St. Mary's Sem, 33; A.M, Catholic Univ, 39, Ph.D.(sociol. & econ), 41. Asst. prof. church hist, Kenrick Sem, 37-38; assoc. prof. sociol. & econ, DePaul, 41-42; prof. & chmn. dept. sociol, 42-43, dean univ. col, 43-46, col. commerce, 46-50, faculties, 50-60, v.pres, 43-50, exec. v.pres, 50-60; prof. soc. sci. & dir. library, St. Mary's Sem, 60-63; rector, Assumption Sem, 63-67; V.PRES. PLANNING, DePAUL, 67- Sociol. Asn. Higher education; population trends. Publ: Socio-economic survey of the marshdwellers of four southeastern Louisiana parishes; Slavonian oyster fishermen of Louisiana; Coming needs of Catholic higher education. Address: DePaul University, 25 E. Jackson Blvd, Chicago, Ill. 60604.

KAMMERER, PROF. GLADYS M(ARIE), b. St. Louis, Mo. POLITICAL SCIENCE. A.B, Washington (St. Louis), 30; A.M, Wisconsin, 31; Ph.D, Chicago, 46. Asst. prof. polit. sci, Kentucky, 46-47, assoc. prof, 47-55, prof, 55-58, rep, south. regional training prog. cmt, 48-58; PROF. POLIT. SCI. & DIR. PUB. ADMIN. CLEARING SERV, FLORIDA, 58- Soc. Sci. Res. Coun. grants-in-aid, 48, 56-60; Ford Found. faculty fel, 54-55. Consult, State Legis. Res. Cmn, Ky, 49-54, chmn; State Registration Laws Cmt, 51. Mem, Heart Coun, 67-70. Polit. Sci. Asn.(secy, 56); Soc. Pub. Admin; Pub. Personnel Asn. Public administration; essential ingredients of the political community. Publ: Co-auth, Urban political community, Houghton, 63; auth, British and American child welfare services: a study in comparative administration; co-auth, City managers in politics. Address: Dept. of Political Science, University of Florida, Gainesville, Fla. 32601.

KAMMERER, DR. ROBERT C(RANE), b. Pittsfield, Ill, July 21, 10. PSYCHOLOGY. A.B, Illinois, 33, M.A, 36; Ph.D.(psychol), Indiana, 39. Clin. psychologist, state reformatory & prison, State Dept. Pub. Welfare, Ind, 40-42; psychologist, Bur. Juvenile Res, Ohio, 42-45; dir, Kans. Receiving Home for Children, 45-47; dir. psychol. serv, Bd. Control State Insts, Iowa, 47; consult, children's insts, Child Welfare Res. Sta, 47; dir. psychol. servs, Orthop. Hosp, Los Angeles, Calif, 47-53; asst. chief clin. psychol, Vet. Admin. Center, Jackson, Miss, 53-58; COUNSELING PSYCHOLOGIST, VET. ADMIN. HOSP, 58- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Clinical psychology; group psychotherapy; psychosomatic problems; counseling; clinical child psychology. Address: Veterans Administration Hospital, Memphis, Tenn. 38104.

KAMMEYER, DR. KENNETH C(ARL) W(ILLIAM), b. Clarksville, Iowa, Oct. 26, 31; m. 54; c. 2. SOCIOLOGY. B.A, Iowa State Teachers Col, 53; M.A, Iowa, 58, Ph.D.(sociol), 60. Instr. SOCIOL, California, Davis, 60-61, asst. prof, 61-68; ASSOC. PROF, KANSAS, 68- Nat. Inst. Ment. Health. res. grant. U.S.N.R, 53-56, Res, 56-, Lt.(jg). Sociol. Asn; Pop. Asn. Am; Nat. Coun.

Family Rels. Demographic and ecological study of communities; information, influence and innovation research; social psychology of role attitudes. Publ: Co-auth, The university student, Col. & Univ. Press, 67; auth, Birth order and the feminine sex role, Am. Sociol. Rev, 66; Birth order as a research variable, Soc. Forces, 67. Address: Dept. of Sociology, University of Kansas, Lawrence, Kans. 66044.

KAMPELMAN, DR. MAX M, b. New York, N.Y, Nov. 7, 20; m. 48; c. 5. POLITICAL SCIENCE. B.A, N.Y. Univ, 40, LL.B, 45; M.A, Minnesota, 46, Ph.D, Minnesota, 51. Instr. polit. sci, Minnesota, 46-48; prof, Bennington Col, 48-50; legis. counsel to U.S. Senator Hubert M. Humphrey, 49-55; ATTORNEY AT LAW, 55- Prof. lectr, Howard, 54-56. Labor rels. consult, 46-49. Chmn. bd, Greater Wash. Ed. TV Assocs, 63- Polit. Sci. Asn. Law; the legislative process; problems of democracy. Publ: The communist party vs. the C.I.O, Praeger, 57; co-auth, Legislative control of the bureaucracy, Ann. Am. Acad. Polit. & Soc. Sci; Labor in politics, In: Interpreting the labor movement. Address: 3154 Highland Place N.W, Washington, D.C. 20008.

KAMPMEIER, ROLAND A(UGUST), Eng. Econ, see 11th ed, Phys. & Biol. Vols.

KAMRANY, DR. NAKE M, b. Kabul, Afghanistan, Aug. 29, 34; m. 57; c. 2. ECONOMIC DEVELOPMENT, PLANNING. B.S, California, Los Angeles, 59; M.A. & Ph.D.(econ), Southern California, 62. Lectr. econ, Southern California, 60-62, asst. prof, 62-63; SR. ECONOMIST, Battelle Mem. Inst, 63-65; PLANNING DIRECTORATE, SYST. DEVELOP. CORP, 65- Assoc. prof, Southern California, 65-66; vis. prof, California, 65- Econ. Asn; Soc. Int. Develop; Asn. Comp. Econ; Asn. Asian Studies. National, regional, and corporate planning; methods for developing and evaluating alternative courses of action through heuristic methods, including analysis, by cost/benefit, cost effectiveness, opportunity cost, and related methodologies. Publ: Co-auth, A dynamic model of the Susquehanna River Basin, Battelle Mem. Inst, 65; A heuristic model for non-profit research, Syst. Develop. Corp. & West. Econ. Rev, 66; auth, Economic development planning, Syst. Develop. Corp, 66. Address: 1106 Kagawa, Pacific Palisades, Calif. 90727.

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KANAL, DR. LAVEEN N(ANIK), Elec. Eng, Statist, see 11th ed, Phys. & Biol. Vols.

KANAREFF, DR. VERA TIHANOVNA, b. Cleveland, Ohio, Jan. 31, 30; m. PSYCHOLOGY. B.A, Illinois, 52; M.A, Wisconsin, 54, Ph.D.(soc. psychol), 57. Asst, Fels Inst. Human Develop, Ohio, 52-53; Wisconsin, 53-57; res. assoc, Fels Group Dynamics Center, Del, 57-60; asst. prof. psychol, Newcomb Col, Tulane, 60. AAAS. Decision making; conformity and influence; social interactions. Publ: Co-auth, Acquisition of imitative and opposition responses under two conditions of instruction induced set & Effects of congruent and conflicting social and task feedback on the acquisition of an imitative response, J. Exp. Psychol. & Effects of congruent social and task reinforcement upon acquisition of imitative responses, Psychol. Reports. Address: Box 4, Clintondale, N.Y. 12515.

KANDEL, DR. GILLRAY L, b. New York, N.Y, June 9, 24; m. 43; c. 3. PHYSIOLOGICAL PSYCHOLOGY. B.S, City Col. New York, 50; Ph.D, Rochester, 58. Res. fel, dept. anesthesia, Mass. Gen. Hosp, 57-58; from asst. prof. to ASSOC. PROF. PSYCHOL, SCH. HUMANITIES & SOC. SCI, RENSSELAER POLYTECH, 58- Sig.C, 43-46, Sgt. Psychol. Asn. Address: Dept. of Psychology, Rensselaer Polytechnic Institute, Troy, N.Y. 12181.

KANE, DR. EDWARD J(AMES), b. Washington, D.C, June 30, 35; m. 59; c. 1. ECONOMICS, STATISTICS. B.S, Georgetown, 57; Goodyear fel, Mass. Inst. Tech, 58-59, Am. Bankers Asn. Stonier fel, 59-60, Ph.D, 60. Asst. prof. ECON, Iowa State, 60-61; Princeton, 61-66, assoc. prof, BOSTON COL, 66-68, PROF, 68- Procter & Gamble faculty fel, 62-63; William T. Paterson Preceptorship, 64-66; UNESCO vis. prof, Istanbul, 66. Summers, asst, Fed. Reserve Bd, 58-59, instr, Boston Col, 60, reporter, Merrill Center Econ, 61. Econometr. Soc; Econ. Asn; Finance Asn. Monetary theory; portfolio theory; term-structure theory. Publ: Economic statistics: an introduction to quantitative economics, Harper, 68; co-auth, Bank portfolio allocation deposit variability and the availability doctrine, Quart. J. Econ, 65 and Determinants of member-bank borrowing: a econometric study, J. Finance, 66. Address: Dept. of Economics, Boston College, Chestnut Hill, Mass. 02167.

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KANE, PROF. JOHN E(WING), b. Quitman, Ark, Apr. 2, 14. ECONOMICS, BUSINESS ADMINISTRATION. B.S, Arkansas, 36, M.S, 39; Minnesota, 40; Ph.D, American Univ, 50. Acct, Lion Oil Co, 37-39; instr, Arkansas, 39-42; asst. prof, Southwestern at Memphis, 42; assoc. economist, U.S. Dept. Commerce, 42-43; asst. dean to col. bus. admin, ARKANSAS, 46-47, PROF. BUS. ADMIN, 47-, HEAD DEPT. ECON, 66-, ACTING V.PRES. BUS. & SECY. BD. TRUSTEES, 67-, head dept. gen. bus, 47-55, assoc. dir. bur. bus. & econ. res, 49-50, asst. to provost, univ, 55-56. Exec. v.pres, McIlroy Bank, 56-58; lectr, southwest. grad. sch. banking, Southern Methodist, 59-Ed, Ark. Bus. Bull, 48-50. Mem, Nat. Arbit. Panel, 59- U.S.N.R, 43-46. Econ. Asn; Finance Asn; Am. Acct. Asn. Business cycles; original real cost concept. Address: Dept. of Economics, College of Business Administration, University of Arkansas, Fayetteville, Ark. 72701.

KANE, PROF. JOHN J(OSEPH), b. Philadelphia, Pa, Apr. 20, 09; m. 41; c. 3. SOCIOLOGY. A.B, St. Joseph's Col.(Pa), 39; M.A, Temple, 46; Ph.D.(sociol), Pennsylvania, 50. From instr. to PROF. SOCIOL, NOTRE DAME, 48-; HEAD DEPT, ST. MARY'S COL.(IND), 68- Dir. regional roundtable, Nat. Conf. Christians & Jews, 50-52. U.S.A, 43. Sociol. Asn. Family; race and minorities; social psychology. Publ: Catholic-Protestant conflicts in America; Together in marriage; Social problems: a situational-value approach, Prentice-Hall, 62. Address: Box 533, Notre Dame, Ind. 46556.

KANE, DR. PAUL, b. New London, Conn, Dec. 8, 19; m. 58; c. 2. CLINICAL PSYCHOLOGY. A.B, Yale, 43; Ph.D, Chicago, 55. Psychologist, Elgin State Hosp, Ill, 48-60; clin. psychologist, Vet. Admin. Hosp, Perry Point, Md, 60-63; COORDINATOR COUNSELING PSYCHOL, VET. ADMIN. HOSP, NORTHAMPTON, MASS, 63- Lectr, Springfield Col, 64 & 67; Am. Int. Col, 67. U.S.A, 43-45. Psychol. Asn. Investigation of pertinent factors in interpersonal relations and problems for more effective approach to psychopathology; mental health institutional reorganization. Publ: Availability of hostile fantasy related to overt behavior, Ill. Med. J. Address: 66 Fox Farms Rd, Florence, Mass. 01060.

KANEDA, DR. HIROMITSU, b. Osaka, Japan, June 5, 34; m. 67. ECONOMICS. B.A, Doshisha, Japan, 57; B.A, Amherst Col, 59; M.A, Stanford, 61, Ford Found. fel, 62, Ph.D.(econ), 64. Lectr. ECON, CALIFORNIA, DAVIS, 63-64, asst. prof, 64-68, ASSOC. PROF, 68- Vis. res. staff economist, econ. growth center, Yale, 66-67. Consult, joint legis. budget cmt, Calif. Legis, 63-64. Econ. Asn; Agr. Econ. Asn; Econometr. Soc. Agricultural development as it relates to economic growth of nations. Publ: Substitution of labor-non-labor inputs and technical change in Japanese agriculture, Rev. Econ. & Statist, 5/65; Regional patterns of technical change in U.S. agriculture, 1950-1963, J. Farm Econ, 2/67; Long-term changes in food consumption patterns in Japan, 1878-1964, Food Res. Inst. Studies, spring 68. Address: Dept. of Economics, University of California, Davis, Calif. 95616.

KANET, DR. ROGER E, b. Cincinnati, Ohio, Sept. 1, 36; m. 63; c. 2. POLITICAL SCIENCE. Ph.B, Berchmanskolleg, 60; A.B, Xavier (Ohio), 61; M.A, Lehigh, 63; Nat. Defense Ed. Act fels, Princeton, 63-66, M.A, 65, Ph.D.(polit. sci), 66. ASST. PROF. POLIT. SCI, KANSAS, 66-, gen. res. grants, 66-69. Res. assoc, grad. sch. int. studies & Soc. Sci. Found, Univ. Denver, 67-69. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Past and present research on Soviet policy in developing countries. Publ: Soviet economic policy in sub-Saharan Africa, Can. Slavic Studies, 12/67; The recent Soviet reassessment of developments in the third world, Russian Rev, 1/68; The rise and fall of the all-people's state: recent changes in the Soviet theory of the state, Soviet Studies, 7/68. Address: Dept. of Political Science, University of Kansas, Lawrence, Kans. 66044.

KANFER, PROF. FREDERICK H, b. Vienna, Dec. 6, 25; nat; m. 52; c. 2. PSYCHOLOGY. B.S, Long Island, 48; M.A, Indiana, 52, Ph.D.(psychol), 53. Asst. prof. psychol, Washington (St. Louis), 53-57; assoc. prof, Purdue, 57-62; PROF. med. psychol, MED. SCH, OREGON, 62-67, PSYCHIAT, 67-, PROF, PSYCHOL, 67-, vis. prof, 58, 60. Prin. investr, U.S. Pub. Health Serv. res. grants, 55-; vis. prof, La. State, 61; Fulbright lectr, Ruhr Univ, 68. Consult, Vet. Admin, 57- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 44-46. AAAS; Psychol. Asn. Application of learning theory to clinical psychology; personality theory; behavior modification. Address: Dept. of Psychiatry, University of Oregon Medical School, Portland, Ore. 97201.

KANG, DR. CHEUL WEUN, b. Ronsan, Korea, Mar. 7, 32; m. 62; c. 2. ECONOMICS. B.A, King Col, 58; M.S, Wisconsin, 60, Ph.D.(econ), 64. Asst. prof. ECON, WESTMAR COL, 63-65, ASSOC. PROF, 65- Econ. Asn; Asn. Asian Studies. International economics; economic development of the Far East. Publ: A note on India's comparative advantage and its export policy, Indian J. Econ, 4/65; Indian rupee and devaluation, Indian Econ. J, 4/66. Address: Dept. of Economics, Westmar College, Le Mars, Iowa 51031.

KANG, DR. MOON H, b. Seoul, Korea, Feb. 21, 21; m. 64. ECONOMICS. B.A, Nebr. Wesleyan, 53; M.A, Nebraska, 55, Ph.D.(econ), 60. Instr. ECON, West. State Col. Colo, 60-61; asst. prof, Alaska, 61-65; MISSOURI, ROLLA, 65-67, ASSOC. PROF, 67- Summer fels, Ford Found, California, Los Angeles, 62 & Gen. Elec. Found, Virginia, 63; Cent. Banking fel, seminar, Fed. Reserve Bank San Francisco, 64. Econ. Asn. International economics; monetary theory. Publ: Co-auth, The community economic base and multiplier, Univ. Nebraska, 58; auth, A note on relationship between demand elasticity and total revenue, Rev. Soc. Econ, 9/66; Some aspects of Japanese import with reference to her economic growth and balance of payments, 1901-1933, J. Develop. Areas, 1/68. Address: Dept. of Social Studies, University of Missouri, Rolla, Mo. 65401.

KANGAS, PROF. JOHN OMAR, Clin. & Med. Psychol, see 10th ed, Soc. & Behav. Vols.

KANIA, DR. WILLIAM B, b. Uniontown, Pa, Aug. 18, 31; m. 49; c. 4. ECONOMICS, FINANCE. B.S, West Virginia, 56; M.B.A, Pittsburgh, 60, Ph.D. (finance), 68. Cost analyst, U.S. Steel Corp, 56-59; asst. prof, bus. econ, Waynesburg Col, 59-61; ECON, CALIFORNIA STATE COL.(PA), 61-64, ASSOC. PROF, 64- Spec. consult, U.S. Senate Cmt. on Finance, 67. Econ. Asn. Demand and supply analysis of the world steel industry, especially the United States steel industry. Publ: Co-auth, The world steel industry, Univ. Pittsburgh, (in prep); The steel import problem, U.S. Senate Cmt. on Finance Report, 11/67. Address: Dept. of Economics, California State College, California, Pa. 15419.

KANIN, DR. EUGENE J, b. Philadelphia, Pa, June 21, 28; m. 54. SOCIOLOGY. B.A, Bridgeport, 51; M.A, Indiana, 54, Ph.D.(sociol), 63. ASSOC. PROF. SOCIOL, PURDUE, 65- Sociol. Asn; Soc. Study Social Probs; Nat. Coun. Family Rels; Soc. Sci. Study Sex. Deviant behavior; sociology of the family. Publ: Male aggression in dating-courtship relations, Am. J. Sociol, 57; co-auth, Postmarital consequences of premarital sex adjustments, Am. Sociol.

Rev, 58; auth, Reference groups and sex conduct norm violations; Sociol. Quart, 67. Address: Dept. of Sociology, Purdue University, Lafayette, Ind. 47907.

KANNAPPAN, DR. SUBBIAH, b. Bombay, India, June 8, 27; m. 56; c. 2. ECONOMICS. M.A, Madras, 49; M.A. Tufts, 50, Ph.D.(labor, int. econ. rels), 56; Chicago, 58-59. Res. assoc, dept. econ, Mass. Inst. Tech, 52-56; dir. res. labor econ, Xavier Labor Rel. Inst, India, 56-58; consult. economist, Ford Found, New Delhi, 58-59; asst. prof. ECON, Reed Col, 59-60; Ohio Wesleyan, 60-61; MICH. STATE, 61-64, ASSOC. PROF, 64- Vis. prof, Int. Inst. Labour Studies, Switz, 65-66. Consult, Nat. Planning Asn, 59-61. Econ. Asn; Int. Soc. Sci. Study Pop. Economic development; comparative labor and industrialization; economic analysis of labor problems. Publ: Gandhian model of unionism in a developing economy, Indust. & Labor Rels. Rev, 10/62; Wage policy in economic development, Econ. Weekly, 2/64; Economics of structuring a labor force, Brit. J. Indust. Rels, 11/66. Address: Dept. of Economics, Michigan State University, East Lansing, Mich. 48823.

KANNER, DR. JOSEPH H, b. New York, N.Y, June 24, 20; m. 47; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 42; Ph.D.(psychol), N.Y. Univ, 51. Res. psychologist, Queens Col, 51; U.S. Dept. Air Force, 51-53; res. assoc. prof, George Washington, 53-54; res. psychologist, off. chief signal officer, 54-67; SPEC. ASST. PSYCHOL, ASST. CHIEF STAFF FOR COMMUNICATIVE ELECTRONICS, U.S. DEPT. ARMY, 67- Consult, U.S. Signal Corps, 53-54; Walter Reed Army Med. Center, 54- U.S.A.A.F, 42-45. Psychol. Asn; Nat. Asn. Ed. Broadcasters. Learning; military training; electronics. Publ: Test of whether the non-rewarded animals learned as much as the rewarded animals in the California latent learning study, J. Exp. Psychol; Television in army training; Television as a training and educational medium. Address: 7520 Greer Dr, Oxon Hill, Md. 20022.

KANSKY, DR. KAREL JOSEPH, b. Prague, Czech, Dec. 12, 28; U.S. citizen. GEOGRAPHY. Dipl, Charles Univ, Prague, 52; Innsbruck, 56-57; M.A, Chicago, 58, Ph.D.(geog), 63. Res. asst. transportation, transportation center, Northwestern, 61-63, res. assoc, 64-65; ASST. PROF. GEOG, North Carolina, 63-64; PITTSBURGH, 65- Res. assoc, transportation res. inst, Carnegie-Mellon Univ, 67- Asn. Am. Geog; Statist. Asn; Regional Sci. Asn; Soc. Gen. Syst. Res. Transportation. Publ: Structure of transportation networks, Res. Paper 84, Dept. Geog, Univ. Chicago, 63. Address: Dept. of Geography, University of Pittsburgh School of Liberal Arts, Pittsburgh, Pa. 15213.

KANTER, DR. DONALD LUCKY, b. Chicago, Ill, Dec. 15, 25; m. 54; c. 1. PSYCHOLOGY. B.S, Northwestern, 48; M.A, Nebraska, 50; Ph.D.(psychol), Connecticut, 53. Staff res. psychologist, Soc. Res, Inc, 53-54; v.pres. psychol. res, Gould, Gleiss & Benn, 54-55; res. dir. commun, Tatham-Laird, Inc, Ill, 55-65; DIR. MKT. SERV, SMITH-WARDEN, LTD, 65- Consult, ECO, Ltd, Stockholm, Sweden, 60. Mem. tech. cmt, Advert. Res. Found, Inc, 61. U.S.A, 45-46. Psychol. Asn; Asn. Pub. Opinion Res. Communications research; experimentation in assessing the effects of mass communication on attitudes and behavior. Publ: Research and the creative decision, Proc, Conf. Advert. Res. Found; Creative research in the development advertising strategy, Papers Am. Asn. Advert. Agencies; Media research: a qualitative perspective, Am. Mkt. Asn. Address: Smith-Warden, Ltd, Lincoln House, 296-302 High Holborn, London, W.C.1, Eng.

KANTER, DR. LOUISE, b. Broken Bow, Nebr, July 26, 29; m. 54; c. 1. SOCIOLOGY. B.A, Stanford, 49; M.A, Nebraska, 50, Ph.D.(sociol), 54; Radcliffe, 51-52. Consult. ment. health, Calif. Dept. Ment. Hyg, 63-65; ASST. PROF. SOCIOL, SACRAMENTO STATE COL, 65- Consult, Calif. Dept. Ment. Hyg, 65- Sociol. Asn. Sociology of religion; social stratification; mental health. Address: 620 Commons Dr, Sacramento, Calif. 95825.

KANTNER, DR. ARTHUR H(ENRY), b. New York, N.Y, Sept. 4, 18; m. 49; c. 3. AGRICULTURAL ECONOMICS. B.S, Cornell, 49, M.S, 50, Ph.D.(agr. econ), 52. Asst. agr. econ, Cornell, 49-52; jr. economist, res. dept, FED. RESERVE BANK, 52-53, asst. economist, 53-56, assoc. economist, 56-58, economist, 58-62, asst. cashier, 62-66, ASST. V.PRES. & ASST. MGR, NEW ORLEANS BR, 66- U.S.A.F, 41-46, Res, 46-, Lt. Col. Agr. Econ. Asn. Monetary theory and banking; agricultural finance. Address: 81 Dove St, New Orleans, La. 70124.

KANTNER, PROF. JOHN F, b. Somerset, Pa, July 17, 20; m. 43; c. 4. SOCIOLOGY, DEMOGRAPHY. A.B, Franklin & Marshall Col, 42; M.A, Michigan, 47, fel, 48-49, Ph.D.(sociol), 52. Asst. prof. sociol, Col. William & Mary, 50-53; soc. sci. analyst, for. manpower res. off, U.S. Bur. Census, 53-57, supvry. anal. statistician, 58-60; assoc. res. prof, bur. bus. & econ. res, California, 57-58; field assoc, Pop. Coun, 60-62, exec. assoc, 63-65; prof, SOCIOL. & head dept, Western Ontario, 65-68; PROF, SCH. HYG. & PUB. HEALTH, HOPKINS, 68- Prof, Panjab, Pakistan, 61-62. Consult, Dom. Bur. Statist, Can, 66-67. U.S.A, 42-45. AAAS; Sociol. Asn; Statist. Asn; Pop. Asn; Can. Sociol. & Anthrop. Asn; Int. Union Sci. Study Pop. Study of growth of Canadian family; factors in recent downturn in Canadian birth rate; demography of the Soviet Union. Publ: Co-auth, Social and psychological factors affecting fertility. Address: Dept. of Population & Family Health, School of Hygiene & Public Health, Johns Hopkins University, Baltimore, Md. 21218.

KANTOR, PROF. HARRY, b. Chicago, Ill, June 2, 11; m. 37; c. 2. POLITICAL SCIENCE. B.A, Illinois, 46; M.A, Wisconsin, 47; Ph.D, California, Los Angeles, 52. Asst. & lectr, California, Los Angeles, 47-50; instr. East. Wash. Col, 50-51; from asst. prof. to PROF. POLIT. SCI, Florida, 52-68, MARQUETTE, 68- Prof, Inst. Polit. Ed, Costa Rica, 60-61; vis. prof, Calif. State Col. Los Angeles, summer, 65. U.S.A, 43. Polit. Sci. Asn. Latin American government, politics and international relations. Publ: Ideology and program of the Peruvian Aprista movement; Costa Rican election of 1953; a case study; Patterns of politics and political systems in Latin America, Rand McNally, 68. Address: 2507 E. Shorewood Blvd, Shorewood, Wis. 53211.

KANTOR, PROF. J(ACOB) R(OBERT), b. Harrisburg, Pa, Aug. 8, 88. PSYCHOLOGY. Ph.B, Chicago, 14, Ph.D, 17; hon.D.Sc, Denison, 61. Instr. PSYCHOL, Minnesota, 15-17; Chicago, 17-20; asst. prof, INDIANA, 20-21, assoc. prof, 21-23, prof, 23-59, EMER. PROF, 59- AAAS; Psychol. Asn; Philos. Asn; Hist. Sci. Soc. Theoretical psychology; history of psychology; psychology of language. Publ: Principles of psychology, 24 & 26, Interbehavioral psychology, 59 & The scientific evolution of psychology, 63, Principia Press. Address: 5743 S. Kimbark Ave, Chicago, Ill. 60637.

KANTOR, DR. MILDRED B(EATRICE), b. Bronx, N.Y. Jan. 28, 30. SOCIOLOGY. A.B, Rochester, 51; A.M, North Carolina, 54, Ph.D.(sociol), 56. Asst, inst. res. soc. sci, North Carolina, 52-53, supvr. soc. sci. statist. lab, 53-55, asst. soc. sci, 55; proj. dir. MENT. HEALTH RES, ST. LOUIS COUNTY HEALTH DEPT, 55-61, PRIN. PROJ. INVESTR, 59-, DIR. VITAL STATIST, 61- Lectr, Washington (St. Louis), 57-63, asst. prof, 64-, asst. prog. dir. & res. assoc, soc. sci. inst, 58-, consult, metrop. pop. proj, res. assoc, inst. urban & regional studies, 62-63; lectr, sch. nursing, St. Louis, 61-, prof. lectr, dept. neurol. & psychiat, Univ, 66- Consult, dent. study, Alabama, 55; Med. Care Res. Center, Jewish Hosp. St. Louis & Washington (St. Louis), 67; work group on socialization in the classroom, Soc. Sci. Res. Coun. Mem. study group health statist. & comprehensive health planning & eval, Nat. Center Health Statist, 67; census rep, St. Louis Metrop. Area; mem. prog. planning cmt, Nat. Conf. Soc. Welfare. Ernest W. Burgess award, 58. Sociol. Asn; Statist. Asn; Pop. Asn. Am; Pub. Health Asn. Population movement; parental attitudes and behavior in relation to adjustment of children; social factors in relations to public health; evaluation of health programs; residential and social mobility in relation to mental health. Publ: Mobility & mental health, C.C. Thomas, 65; co-auth, Socio-economic level and maternal attitudes toward parent child relationships to emotional adjustment, sex, and social class, J. Soc. Issues & Maternal attitudes and general adjustment in school children, In: Research on parental attitudes and child behavior. Address: St. Louis County Health Dept, 801 S. Brentwood, Clayton, Mo. 63105.

KANTOR, DR. ROBERT EDWIN, Psychol, Sociol, see 10th ed, Soc. & Behav. Vols.

KANUNGO, DR. RABINDRA NATH, b. India, July 11, 35; m. 59; c. 2. PSYCHOLOGY. B.A, Utkal, 53; M.A, Patna, 55; Commonwealth scholar, McGill, 60-62, Ph.D.(psychol), 62. Lectr. PSYCHOL, Ravenshaw Col, India, 55-60; res. assoc, McGill, 62; asst. prof, Indian Inst. Mgt, Calcutta, 63-64; Indian Inst. Tech, Bombay, 65; res. fel, DALHOUSIE, 66-67, ASST. PROF, 67- Am. Psychol. Asn; Can. Psychol. Asn; Psychonomic Soc. Psycholinguistics and verbal behavior; social and personality psychology; industrial psychology. Publ: Semantic satiation and paired-associate learning, J. Exp. Psychol, 62; Brand-awareness as a function of its meaningfulness, sequential position and product utility, J. Appl. Psychol, 66; Retention of affective material, J. Personnel & Soc. Psychol, 68. Address: Dept. of Psychology, Dalhousie University, 1460 Oxford St, Halifax, N.S, Can.

KANZER, DR. MARK, b. Brooklyn, N.Y, Dec. 6, 08; m. 38; c. 2. PSYCHIATRY. B.S, Yale, 28; M.A, Harvard, 29; M.D, Berlin, 34. CLIN. PROF. PSYCHIAT, COL. MED, STATE UNIV. N.Y. DOWNSTATE MED. CENTER, 56-, assoc. dir. div. psychoanal. ed, 59-62, dir, 62-65. Freud lectr, Psychoanal. Asn. New York, 67. Mem. exec. coun, Am. Psychoanal. Asn, 54-60, 67- Chief neuropsychiat. serv, Army-Navy Gen. Hosp, Med.C, 42-46, Maj. AAAS; Psychiat. Asn; Am. Med. Asn; Psychoanal. Asn. Publ: Co-auth, Classical psychoanalysis since 1939, In: Psychoanalytic methodologies, Basic Books, 67; A glossary of psychoanalytic terms and concepts, Am. Psychoanal. Asn, 67. Address: 80 Park Ave, New York, N.Y. 10016.

KAPCHAN, PROF. JACK A, b. New York, N.Y, Oct. 6, 22. PSYCHOLOGY. B.S.S, City Col. New York, 43; New Sch. Soc. Res, 46-48; U.S. Pub. Health Serv. fel, Louisville, 50; Ph.D, Duke, 52. Asst. parapsychol. lab, Duke, 48-52; assoc. prof, MIAMI (FLA), 52-65, PROF. PSYCHOL. & SOC. SCI, 65-, CHMN. DIV. SOC. SCI, 67- Sig.C, 46, 1st Lt. AAAS; Psychol. Asn; Soc. Study Social Probs. Practice of psychoanalytically oriented psychotherapy; group psychotherapy; diagnostic and projective testing; integration of social sciences and the methodology of science; culture and personality; prejudice and minority group interaction. Address: Dept. of Psychology, University of Miami, Coral Gables, Fla. 33124.

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KAPIL, DR. RAVI L, b. Karachi, India, Jan. 31, 31; U.S. citizen; m. 53; c. 2. POLITICAL SCIENCE. B.A, Bombay, 50; M.S, Wisconsin, 57, Ph.D.(polit. sci), 61. Asst. prof. polit. sci, Wisconsin, Milwaukee, 61-68; ASSOC. PROF. PUB. ADMIN, MID. EAST TECH, ANKARA, 68- Joint Cmt. African Studies, Soc. Sci. Res. Coun-Am. Coun. Learned Socs. res. grant, 63-64. Consult, Orgn. Econ. Coop. & Develop, Paris, 68- Peace Corps country dir, Somalia, U.S. Dept. State, 66, 67. Fel. African Studies Asn; Polit. Sci. Asn. Political modernization; development administration and cross-cultural administration. Publ: Co-auth, Dictionary of political science, Philos. Library, 64; auth, On the conflict potential of boundaries, World Polit, 7/66; Integrating disparate colonial legacies, Race, 7/66. Address: Dept. of Public Administration, Middle East Technical University, Ankara, Turkey.

KAPLAN, DR. A(BRAHAM) D(AVID) H(ANNATH), b. New York, N.Y, Apr. 26, 93; m. 19. ECONOMICS. B.S, N.Y. Univ, 13; A.M, Denver, 23, hon. D.P.S, 57; fel, Hopkins, 27-28, Ph.D, 30. Instr. math. & soc. sci, Denver, 21-23, assoc. prof. econ, 23-27, prof. econ. & dir. soc. studies, 27-44, dir. grad. div. govt. mgt, 38-44; SR. STAFF MEM, BROOKINGS INST, 45-, consult. fel, 32-33. Press correspondent, Monetary & Econ. Conf, London, 33; lectr, Inst. World Affairs, Austria, 33; dir. urban study consumer purchases, U.S. Bur. Labor Statist, 35-38; regional price exec, Off. Price Admin, 41-43; mem. res. staff, Cmt. Econ. Develop, 43-46; dir. seminars Am. econ, Washington (Seattle), 55, 60; U.S. Dept. State, India, 58; Pittsburgh, 59; Haynes

Found. lectr, Occidental Col, 57; lectr, Colorado, 57, 59; vis. prof, Rollins Col, 59-60; res. prof, George Washington, 60-66; vis. univ. prof, Delaware, 62-63; vis. prof, Baruch Sch, grad. div. & grad. center, City Univ. New York, 66-67. Econ. adv. spec. cmt. postwar econ. policy & planning, U.S. House Rep, 44-47. U.S.A, 17-19. Econ. Asn; fel. Statist. Asn.(v.pres, 51). Economic theory; structure of American business. Publ: Small business: its place and problems; Guarantee of annual wages; Big business in a competitive system. Address: 4849 Langdrum Lane, Chevy Chase, Md. 20015.

KAPLAN, DR. ARNOLD R(AYMOND), Human Genetics, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KAPLAN, PROF. BENJAMIN, b. Russia, May 10, 06; nat; m. 33; c. 1. SOCIOLOGY. B.A, Tulane, 28, M.A, 29; Ph.D.(sociol), La. State, 52. Supvr. soc. work, State Dept. Pub. Welfare, La, 31-39; PROF. SOCIOL, SOUTHWESTERN LOUISIANA, 40- Sociol. Asn. Family; race relations; community. Publ: Eternal stranger; contrib, Jews in America. Address: Dept. of Sociology, University of Southwestern Louisiana, Lafayette, La. 70501.

KAPLAN, PROF. BERNARD, b. Brooklyn, N.Y, Feb. 14, 25; m. 58; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 48; M.A, Clark, 50, Ph.D, 53; Soc. Sci. Res. Coun. fel, Harvard & Clark, 50-51. Res. assoc, CLARK, 51-55, lectr, 53-55, asst. prof. psychol, 55-57, assoc. dir. res, 55-58, assoc. prof. PSYCHOL, 57-64, PROF, 64- Prin. investr, Nat. Inst. Ment. Health grant, 60- Consult, dept. psychol, Worcester State Hosp, Mass, 54- U.S.A, 43-46. Psychol. Asn. Symbolic activity, language and communication; developmental psychology; thinking. Publ: Some psychological methods for the investigation of expressive language; co-auth, Developmental approach to cognition & Symbolic mediation and organization of thought. Address: Dept. of Psychology, Clark University, Worcester, Mass. 01610.

KAPLAN, DR. BERNICE A(NTOVILLE) (MRS. GABRIEL LASKER), b. New York, N.Y, Apr. 21, 23; m. 49; c. 3. ANTHROPOLOGY. Univ. fel, Chicago, 44-45, univ. fel. & Chicago Natural Hist. Mus. fel, 45-46, M.A, 47, Ph.D. (anthrop), 53. Asst. anthrop, Am. Mus. Natural Hist, 43-44; acting instr. anthrop. & sociol, Wisconsin, 46-47; asst. anthrop, Chicago Natural Hist. Mus, 47; instr. anthrop. & sociol, Hobart Col, 48-49; instr, Wayne, 49-50; lectr, Michigan, 55, 60; exten, California, 60-61; lectr. ANTHROP, WAYNE STATE, 61-63, asst. prof, 63-68, ASSOC. PROF, 68- Lectr, Michigan, 55 & 60. Assoc, Current Anthrop. Fel. AAAS; fel. Anthrop. Asn; Asn. Phys. Anthrop; fel. Latin Am. Studies Asn. Social and cultural change; village industrialization in Mexico and Peru; ethnohistory of Michigan, Ottawa, Potawatomie and Chippewa. Publ: Environment and human plasticity, Am. Anthrop; Ethnic identification in an Indian Mestizo community, I. Sociocultural factors, Phylon; Changing functions of the Huanaucha dance in Paracho, Michoacan, Mexico, J. Am. Folklore. Address: 31339 Pierce Rd, Birmingham, Mich. 48009.

KAPLAN, PROF. BERT, b. U.S, Feb. 16, 19; m. 44; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 42; Ph.D, Harvard, 49. Instr. clin. psychol, Harvard, 49-51, ment. health, sch. pub. health, 51-53; asst. prof. PSYCHOL, Kansas, 53-58, assoc. prof, 58-63; PROF, Rice, 63-65; CALIFORNIA, SANTA CRUZ, 65- Psychol. Asn; Anthrop. Asn. Culture and personality; projective tests; preventive psychiatry. Publ: Studying personality cross-culturally; Inner world of mental illness, Harper, 63; Personality in communal society. Address: Dept. of Psychology, University of California, Santa Cruz, Calif. 95060.

KAPLAN, DR. BERTON H, b. Winchester, Va, June 27, 30; m. 59; c. 2. SOCIOLOGY. B.S, Va. Polytech, 51; M.S, North Carolina, 52, Ph.D.(sociol), 62; Edinburgh, 54-55. Instr. SOCIOL, NORTH CAROLINA, CHAPEL HILL, 60-62, asst. prof, 62-67, ASSOC. PROF, 67- Soc. Sci. Res. Coun. fel, Cornell, 65-66; vis. asst. prof, summer 66. U.S.A.F, 52-54, 1st Lt. Sociol. Asn; Anthrop. Asn. Deviance theory; social psychiatry; social structure and personality. Publ: Defining public health goals, Am. J. Pub. Health, 9/64; Social issues and poverty research, 1/65 & ed, Poverty dynamics and interventions, 1/65, J. Soc. Issues. Address: School of Public Health, University of North Carolina, Chapel Hill, N.C. 27514.

KAPLAN, DR. DAVID, b. Union City, N.J, May 8, 29; m. 58. ANTHROPOLOGY. A.B, Michigan, 51, A.M, 53, Ph.D, 60. Asst. prof. ANTHROP, Oklahoma, 59-61; from asst. prof. to ASSOC. PROF, BRANDEIS, 61- U.S.A, 54-56. AAAS; Anthrop. Asn. Cultural evolution; political and economic anthropology; peasant cultures; Latin American. Publ: Law of cultural dominance, In: Evolution and culture. Address: Dept. of Anthropology, Brandeis University, Waltham, Mass. 02154.

KAPLAN, DAVID L, b. New York, N.Y, Feb. 14, 18; m. 51; c. 2. STATISTICS. B.A, N.Y. Univ, 39, fel, 39-40; American Univ, 40-45. Statistician, U.S. BUR. CENSUS, 40-50, chief, occup. & indust. statist. br, 50-57, decennial census planner, POP. DIV, WASH, D.C, 57-62, ASST. CHIEF, 62-, 1970 CENSUS COORDINATOR, 66- Meritorious serv. award, U.S. Dept. Commerce, 52. Fel. AAAS; fel. Statist. Asn; Popl.Asn. Statistical survey techniques; demography; labor statistics. Publ: Comparability of reports on occupation from vital records and 1950 census; co-auth, Occupational trends in the U.S, 1900-1950. Address: 204 Belton Rd, Silver Spring, Md. 20901.

KAPLAN, DR. DONALD MARTIN, b. New York, N.Y, May 8, 27; m. 50; c. 2. PSYCHOLOGY. B.A, City Col. New York, 49; M.A, Columbia, 51; Lindner scholar, Nat. Psychol. Asn. Psychoanal, 58; Ph.D.(psychol), N.Y. Univ, 60. Psychologist, Theodor Reik Clin, New York, 56-60; assoc. dir. res, Inst. Personality Study & Psychoanal. Study Center, 60-61; CLIN. PSYCHOLOGIST, 61- Mem. faculty, inst, N.Y. Soc. Freudian Psychologists, 67-; Wash. Sq. Inst. Ment. Health, 67- Counsr, Bd. Ed, New York, 54-59; supvr. intern prog, L.I. Consult. Center, N.Y, 60-61. Mem. ed. staff, Psychoanal. & The Psychoanal. Rev, 58-64; contrib. ed, Tulane Drama Rev, 65-; assoc. ed, Am. Imago, 67- U.S.N, 45-46. Psychol. Asn; Soc. Proj. Tech. & Personality Assessment; Orthopsychiat. Asn; sr. mem. Nat. Psychol. Asn. Psychoanal; fel. Coun. Psychoanal. Psychother.(pres, 66). Psychodiagnostic testing; personality measurement and research; psychoanalytic psychotherapy. Publ: Co-auth, The Domesday dictionary, Simon & Schuster, 63. Address: 175 W. 12th St, New York, N.Y. 10011.

KAPLAN, DR. FREDERICK I(SRAEL), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KAPLAN, DR. HENRY K, b. Madison, Wis, Mar. 6, 22; m. 50; c. 2. PSYCHOLOGY. B.A, Wisconsin, 47, Ph.D, 57; M.A, Wayne State, 50. Psychologist, Boys Repub, Detroit, Mich, 50-52; Mendota State Hosp, Madison, Wis, 52-58; psychologist & dir. spec. ed, St. Clair River Area Schs, 58-62; PSYCHOLOGIST, CHILD ADOLESCENT PROG, MENDOTA STATE HOSP, MADISON, 62-, JEFFERSON COUNTY FAMILY COUNSELING CENTER, 65- Mem. Coun. Except. Children. U.S.A.A.F, 44-45, 2nd Lt. Psychol. Asn. Socio-economic background and its relationship to school readiness and achievement; sociometric status in multiage school groups. Publ: Another application of the spiral after effect in the determination of brain damage, J. Consult. Psychol; co-auth, Peer status and intellectual functioning of Negro school children, Psychol. in Sch, 4/67; Looking at schools from inside the hospital, Except. Children, 9/67. Address: 2811 Ridge Rd, Madison, Wis. 53705.

KAPLAN, DR. HOWARD B(ERNARD), b. New York, N.Y, Mar. 17, 32. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, N.Y. Univ, 53, scholar, 53-54, M.A, 54, Ph.D, 58. Instr. SOCIOL, N.Y. Univ, 55-57, asst. prof, 57-58; res. assoc, COL. MED, BAYLOR, 58-59, asst. prof, 60-65, ASSOC. PROF, 65- Russell Sage Found. fel, 58; Milbank Memorial Fund faculty fel, 65-70; vis. assoc. prof, Rice, 67-68. Consult, Vet. Admin. Hosp, 61-; Community Coun. Houston & Harris County, 64-66; Southmore House Rehab. Facility, 64- Participant, White House Conf. Health, 65- Fel. Sociol. Asn; Pub. Health Asn; Soc. Psychophysiol. Res. Medical sociology; socio-physiological correlates of small group interaction; social psychiatry; deviant behavior. Publ: Implementation of program change in community agencies, Community Coun. Houston & Harris County, 66; Dimensions of change on an open psychiatric ward, J. Psychiat. Res, 5/65; Physiological correlates (GSR) of affect in small groups, J. Psychosom. Res, 8/67. Address: Dept. of Psychiatry, Baylor University College of Medicine, Houston, Tex. 77025.

KAPLAN, DR. IRA T(HEODORE), b. New York, N.Y, Sept. 18, 31. EXPERIMENTAL PSYCHOLOGY. B.A, N.Y. Univ, 55; M.A, Columbia, 56, Ph.D. (exp. psychol), 59. Asst. PSYCHOL, Columbia, 57-59; psychologist, Syst. Develop. Corp, 59-60; Dunlap & Assocs, 60-65; INSTR. EXP. OPHTHAL, N.Y. UNIV. MED. CENTER, 59-; PSYCHOLOGIST, ZARET FOUND, 65- Nat. Insts. Health res. grant, 62- U.S.A, 52-54, Res, 55- Psychol. Asn. Perception, especially vision. Publ: Effect on visual threshold of light outside the test area; Effect of contrast on cff and apparent brightness; co-auth, visual search and immediate memory, J. Exp. Psychol, 66. Address: 150 West End Ave, New York, N.Y. 10023.

KAPLAN, DR. JACOB J, b. Somerville, Mass, Aug. 23, 20; m. 48; c. 2. ECONOMICS. A.B, Harvard, 40, A.M, 41, Ph.D, 50. Asst, Iowa State Col, 41-42; br. chief, South. Europe Econ. Res, U.S. Dept. State, 46-48; res. assoc, inst. int. studies, Yale, 48-50; from asst. chief to chief, European Regional Orgns. Staff, Econ. Coop. Admin, Mutual Security Admin, 51-54; U.S. rep. mgt. bd, European Payments Union & Monetary Agreement, U.S. Dept. State, 54-59, asst. coordinator for. asst. progs, 59-61, dir. int. develop. orgn. staff, U.S. Agency Int. Develop, 62-65; sr. res. analyst, George Washington, 65-66; CONSULT. INT. FINANCE & ECON, 66- Ford Found. res. grant, 65-66. Consult, coun. for. rels, U.S. Dept. State, 49-50; mem. U.S. del, annual ministerial meetings, NATO, OEEC, Int. Bank Reconstruct. & Develop. & Int. Monetary Fund, 54-65; chief U.S. del, conf. financial assistance to Turkey & Turkish debts, OEEC, 58-59; mem. U.S. del, Alliance Progress Orgn. Meeting, Punta del Este, Uruguay, 62; mem. prog. develop. group, President's Task Force For. Aid, 62; chief U.S. del, meeting on the terms of aid, Orgn. Econ. Coop. & Develop, 63. U.S.A, 42-45, 1st Lt. Econ. Asn; Soc. Int. Develop. International finance, economics and relations; underdeveloped countries. Publ: The Challenge of foreigh aid, Praeger, 67; United States foreign aid programs, World Polit, 10/50; Why foreign aid is in trouble, Challenge, 1-2/67. Address: 815 Connecticut Ave, Suite 801, Washington, D.C. 20006.

KAPLAN, DR. LAWRENCE J(AY), b. New York, N.Y, Oct. 28, 15; m. 46; c. 3. ECONOMICS, STATISTICS. B.A, Brooklyn Col, 37; M.A, Columbia, 38, Ph.D, 58. Economist, Off. Housing Expediter, 46-47; chief statist. anal. sect, financial & acct. off, Orgn. for Rehab. Through Training, N.Y, 47-49; regional construct. analyst & chief info. officer, New York regional off, bur. labor statist, U.S. Dept. Labor, 49-57; supvr, housing mkt. anal. sect, New York Dept. City Planning, 57-60; dir. relocation planning & res, New York Dept. Real Estate, 60-62; planning & res, New York Dept. Relocation, 62-65; ASSOC. PROF.ECON, JOHN JAY COL, 65- Lectr, Baruch Sch. Bus. & Pub. Admin, City Col. New York, 50- Mil. Intel, U.S.A, 42-45. Econ. Asn; Statist. Asn. Urban land economics; economics of organized crime. Publ: Elementary statistics for economics and business, 66 & Workbook problems to accompany elementary statistics, 67, Pitman; Jewish population of the New York area, 1900-1975. Address: 69-18 225th St, Bayside, N.Y. 11364.

KAPLAN, DR. MARTIN F, b. Brooklyn, N.Y, Apr. 20, 40; m. 60; c. 1. PSYCHOLOGY. B.B.A, City Col. New York, 60, M.S, 62; U.S. Pub. Health Serv. fel, Iowa, 62-64, Ph.D.(psychol), 65. Psychol. intern, Vet. Admin. Hosp, Iowa City, Iowa, 64-65; asst. prof. PSYCHOL, NORTHERN ILLINOIS, 65-68, ASSOC. PROF, 68-, CONSULT, MENT. HEALTH TRAINING PROG, 67- Consult, Elgin State Hosp, 67- AAAS; Psychol. Asn. Experimental personality, especially social perception and impression formation; personality assessment. Address: Dept. of Psychology, Northern Illinois University, De Kalb, Ill. 60115.

KAPLAN, DR. MARTIN JEROME, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

KAPLAN, DR. MARVIN LEE, b. Rochester, N.Y, May 24, 26; m. 51; c. 4. PSYCHOLOGY. B.A, Rochester, 50; Ph.D.(clin. psychol), Buffalo, 56. Sch. psychologist, Bd. Ed, Buffalo, N.Y, 55-56; chief psychologist, Martha H.

Beeman Found. Child Guid. Clin, Niagara Falls, N.Y, 56-57; sr. clin. psychologist, Topeka State Hosp, 57-64; lectr. personality develop, Washburn, 59-64; dir. psychol, dept. psychiat, col. med, Cincinnati, 64-67; PROF. PSYCHOL, Xavier, 67-68; KENT STATE, 68- Lectr, Kansas, 63-64. Consult, Family Serv. Soc, Buffalo, N.Y, 57; Family Serv. & Guid. Center, Topeka, Kans, 59. U.S.N, 45-46. Psychol. Asn; Soc. Res. Child Develop. Cognitive development in early childhood; personality development; personality structure based on an ego psychology model; training in clinical psychology, mental health and community resources. Publ: Ego impairment and ego adaptation in schizophrenia, J. Proj. Tech, 67; Psychological testing: background, trends and current practice, J. Comprehensive Psychiat, 67; Lower class clients and psychiatric residents; conflict in training, Community Ment. Health J, 68. Address: Kent Hall, Kent State University, Kent, Ohio 44240.

KAPLAN, DR. MICHAEL, b. New York, N.Y, May 30, 25; m. 61. EXPERIMENTAL PSYCHOLOGY. A.B, Columbia, 48, A.M, 49, Ph.D.(psychol), 52. Asst. psychol, Columbia, 50-51, lectr, 51-54; chief exp. psychol. lab, Creedmoor Inst. Psychobiol. Studies, 54-64; PRIN. SCIENTIST, U.S. ARMY BEHAV. SCI. RES. LAB, 64- U.S. Pub. Health Serv. res. fel, 52-54; vis. investr, R.B. Jackson Mem. Lab, 50; faculty mem, Univ. Virginia, 66-67. Consult, Army Res. Off. Adv. Group, 65-67. Mem. cmt. lie-detection res, Dept. Defense, 67- U.S.A, 43-46. AAAS; Psychol. Asn; N.Y. Acad. Sci; Psychonomic Soc; Soc. Psychophysiol. Res. Conditioning; motor-autonomic interaction; punishment; deprivation variables; human factors. Publ: Essential works of Pavlov, Bantam, 66; Effects of noxious stimulus intensity and duration during intermittent reinforcement of escape behavior, J. Comp. & Physiol. Psychol; Amplitude of respiratory movements as a function of noxious stimulus intensity, Psychol. Reports, 67. Address: U.S. Army Behavioral Science Research Lab, Washington, D.C. 20315.

KAPLAN, MORTIMER, Econ, see 10th ed, Soc. & Behav. Vols.

KAPLAN, PROF. MORTON A, b. Philadelphia, Pa, May 9, 21. POLITICAL SCIENCE. B.S, Temple, 43; Ph.D.(pub. law & govt), Columbia, 51. Adv, For. Del. to UN, 49-51; instr. polit. sci, Ohio State, 51-52; fel, center int. studies, Princeton, 52-53; asst. prof. polit. sci, Haverford Col, 53-54; staff mem, int. rel, Brookings Inst, 54-55; fel, Center Adv. Study Behav. Sci, 55-56; asst. prof. POLIT. SCI, CHICAGO, 56-61, assoc. prof, 61-65, PROF, 65- Res. assoc, center int. studies, Princeton, 58-62; Carnegie fel, 59-60; res. assoc, Hudson Inst, 61-; vis. assoc. prof, Yale, 61-62; lectr, U.S. Army War Col, 62; U.S. Army Command & Gen. Staff Col, 63-66; U.S. Air War Col, 66-; mem, Inst. Strategic Studies. Summers, vis. prof, Columbia, 64, 66. Consult, Cmt. Econ. Develop, 65. U.S.A, 43-46. Polit. Sci. Asn; Int. Polit. Sci. Asn. International political behavior; theory of political systems and of strategy and values. Publ: Co-auth, United States foreign policy, 45-55; and Political foundations of International law; Systems and process in international politics. Address: Dept. of Political Science, University of Chicago, 1126 E. 59th St, Chicago, Ill. 60637.

KAPLAN, PROF. NORMAN, b. New York, N.Y, Aug. 1, 23; m. 50; c. 2. SOCIOLOGY. A.B, Brooklyn Col, 47; Ph.D.(sociol), Columbia, 55. Res. assoc. SOCIOL, bur. appl. soc. res, Columbia, 50-51, lectr, 51-52; instr, Cornell, 52-55, asst. prof, 55-61; assoc. prof, Pennsylvania, 61-65; vis. prof. GEORGE WASHINGTON, 65-66, PROF, 66-, SR. STAFF SCIENTIST, 68- U.S.A.A.F, 42-46. Fel. AAAS; fel. Sociol. Asn; Hist. Sci.Soc. Comparative studies of interrelations of science and society, espeically problems of organization, planning and science policy in relation to societal goals in industrialized and developing nations. Publ: Organization: will it choke or promote the growth of science?, In: The management of scientists, Beacon, 64; ed, Science and society, Rand McNally, 65; contrib, Encyclopedia of social sciences, 68. Address: Dept. of Sociology, George Washington University, Washington, D.C. 20006.

KAPLAN, PROF. OSCAR J(OEL), b. New York, N.Y, Oct. 21, 15; m. 42; c. 3. PSYCHOLOGY. A.B, California, Los Angeles, 37, M.A, 38; Ph.D.(psychol), California, 40. Asst, inst. child welfare, California, 40; instr. PSYCHOL, South. Br, Idaho, 41-43, asst. prof, 43-45, assoc. prof, 45-46; SAN DIEGO STATE COL, 46-52, PROF, 52-, DIR. CENTER SURV. RES, 58- Soc. Sci. Res. Coun. fel, 51; Nat. Sci. Found. traveling fel, 54; vis. prof. pub. health, California, Los Angeles, 65-66. Consult, U.S. Pub. Health Serv, Md, 46-50. Mem, planning cmt, Nat. Conf. Aging, 51; Calif. Cmn. Aging, 63-67. AAAS; fel. Psychol. Asn; Geront. Soc.(ed, Newsletter, 54-60; ed-in-chief, Gerontologist, 61-66). Gerontology; public opinion polling; geriatric psychoses. Publ: Mental disorder in later life. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

KAPLAN, DR. RALPH SAMUEL, b. Chicago, Ill, Mar. 12, 22; m. 48; c. 2. PSYCHOLOGY. B.F.A, Texas, Austin, 49, M.Ed, 50, Ph.D.(ed. psychol), 62. Teacher, high sch, Tex, 50-51; res. psychologist, personnel res. lab, Lackland Air Force Base, Tex, 58-63, ed. specialist, Lackland Mil. Training Center, 63-67; Hq. U.S. Air Force, Norton Air Force Base, Calif, 67-68; INSTR. PSYCHOL, SAN BERNARDINO VALLEY COL, 68- U.S.A.F, 41-45, 51-58, Res, 58-, Maj. Psychol. Asn. Safety training of Air Force personnel, ground, air, nuclear, missile, and explosive; airman and officer selection, retention, and military and technical training. Address: 6151 Del Rosa Ave, San Bernardino, Calif. 92404.

KAPLAN, DR. RICHARD J(AY), b. Hartford, Conn, Sept. 12, 30; m. 61. EXPERIMENTAL PSYCHOLOGY. B.A, Williams Col, 53; M.A, Columbia, 54; Ph.D, California, Los Angeles, 57. Asst. psychol, Barnard Col, Columbia, 53-54; California, Los Angeles, 55-57; sr. engr, Litton Industs, 57-59; mem. tech. staff, Ramo-Wooldridge Div, Thompson Ramo-Wooldridge, Inc, 59-62; human factors scientist, Syst. Develop. Corp, 62-65; PSYCHOLOGIST, RAND CORP, 65- Psychol. Asn; Human Factors Soc; Asn. Computing Mach. Human engineering; systems analysis and design; learning theory; display technology; computer application; decision theory. Publ: Study of semantic generalization through the use of established conceptual medications & co-auth, Semantic generalization with experimentally induced associations, J. Exp. Psychol; Judge: a value-judgment-based tactical command system, J. Orgn. Behav. & Human Performance, 11/67. Address: 223 Giardino Way, Pacific Palisades, Calif. 90272.

KAPLAN, DR. ROBERT G, b. St. Louis, Mo, Jan. 3, 23; m. 47; c. 4. PSYCHOLOGY, LAW. A.B, Washington (St. Louis), 47, M.A, 48, Ph.D, 50; D.Jur, California Western, 65. Psychol. intern, Vet. Admin. Ment. Hyg. Clin, St. Louis, Mo, 48-49; res. psychologist, Vet. Admin. Hosp, Jefferson Barracks, Mo, 49-50; chief psychologist, Vet. Admin. Clin, Okla. City, Okla, 50-51; U.S. Army Hosp, Ft. Riley, Kans, 51-52; PRACTICING CLIN. PSYCHOLOGIST, 52-; V.PRES. & DIR. PERSONNEL, WASH. INVENTORY SERV. INC, 53- Psychologist, Ritenour Sch. Dist, Mo, 48-49; chief psychologist, outpatient clin, Fairview Hosp, 67- Consult, Dept. Pub. Welfare, San Diego County, 53-; Camarillo State Hosp, 65- Mem. psychol. exam. cmt, State Bd. Med. Exam, Calif, 57-63; chmn. legis. cmt, Am. Asn. State Psychol. Bds, 61-62. U.S.A, 42-46, 51-52. Psychol. Asn. Clinical, industrial and forensic psychology. Address: 104 Quince St, San Diego, Calif. 92103.

KAPLAN, DR. ROBERT M, b. Montreal, Que, Nov. 11, 36; m. 64; c. 1. BUSINESS ADMINISTRATION. M.B.A, Harvard, 61; Ph.D.(bus), Mich. State, 66. Mkt. res. analyst, MacMillan Bloedel Ltd, 61-62, mgr. new prod. planning, 65-66; instr, Mich. State, 62-65; asst. prof. econ. & commerce, Simon Fraser Univ, 66-68, president's res. grant, 67; ASSOC. PROF. BUS. ADMIN, HAWAII, 68- Seagram's bus. faculty res. award, 67. Mkt. Asn; Asn. Comput. Mach. Behavioral sciences as applied to marketing; financial management of the marketing function. Publ: Co-auth, Matrix models for marketing planning, Bus. Topics, summer 63; auth, The marketing concept in action, Am. Mkt. Asn, 64; Credit risks and opportunities, Harvard Bus. Rev, 3-4/67. Address: Dept. of Business Administration, University of Hawaii, Honolulu, Hawaii 96822.

KAPLAN, DR. S. DAVID, b. Bronx, N.Y, July 12, 21; m. 51; c. 4. PSYCHOLOGY, SOCIOLOGY. B.A, Brooklyn Col, 43; M.A, Columbia, 48; Ph.D, Kansas, 55. Trainee clin. psychol, Winter Vet. Admin. Hosp, 48-52; clin. psychologist, Greater Kansas City Ment. Health Found, 52-53; instr. psychiat, med. center, Kansas, 53-58, assoc. psychiat, 58; chief res. psychologist, Kansas City Vet. Admin. Hosp, 58-59; chief clin. psychologist, Lincoln State Hosp, 59-66; clin. psychologist, Southeast Psychiat. Clin, 66-67; PROF. PSYCHOL, HEAD DEPT. & DIR. COUNSELING, PERSHING COL, 67- Vis. prof, Nebr. Wesleyan, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol, 64. U.S.A.A.F, 42-46, Sgt. Psychol. Asn; Asn. Adv. Behav. Ther; Int. Soc. Clin. & Exp. Hypnosis. Hypnosis, psychotherapy, student and marital counseling; behavior therapy; psychophysiology; personality assessment teaching. Publ: Autonomic visual regulation, Psychiat. Res. Reports; Visual analog of the Funkenstein test, Arch. Gen. Psychiat; Psychophysiology of criminals, Proc. Am. Psychol. Asn, 66. Address: Route 2, Beatrice, Nebr. 68310.

KAPLAN, SHELDON Z(ACHARY), b. Boston, Mass, Nov. 15, 11; m. 47; c. 6. INTERNATIONAL LAW, ECONOMICS. A.B, Yale Col, 33; Harvard, 33-34; B.A, Oxford, 37, M.A, 45; Paris, 45. Asst. to legal adv, U.S. Dept. State, 46-49; staff consult, House For. Affairs Cmt, U.S. Cong, 49-57; partner, Dodd & Kaplan, D.C, 57-58; counsr, Martin & Burt, 59-62; counsel, Wilkinson, Cragun & Barker, 62-67; private int. legal practice, 67- Congressional adv, U.S. del, Tenth Gen. Assembly UN, 55. Consult, Spec. Congressional Study Missions, 51-57. La Medaille de la Reconnaissance Francaise, Govt. France; Orden del Quetzal, Govt. Guatemala. U.S.A, 42-46, Capt. Soc. Int. Law; Bar Asn. International law; foreign economic policy, especially United States private investment overseas; Latin American Affairs, Publ: Background information of the Soviet Union in international relations; co-auth, Crime without punishment, Georgetown Law J; contrib, Panama Canal issues and treaty talks, Center Strategic Studies, Georgetown Univ, 67. Address: 7810 Moorland Lane, Bethesda, Md. 20014.

KAPLAN, PROF. SIDNEY J(OSEPH), b. Malden, Mass, Feb. 1, 24. SOCIOLOGY. A.B, Boston, 49, M.A, 50; Ph.D, Washington State, 53. From asst. prof. to assoc. prof. sociol, Kentucky, 53-62; ASSOC. DEAN. DIV. SOC. SCI, TOLEDO, 62-, chmn. dept. sociol, 62-66. U.S.A, 45-46. Sociol. Asn. Complex organizations, deviant behavior. Publ: Co-auth, Strategy of change: contrasting approaches to teacher integration, 10/63 and identifying the behavioral sciences, 1/67, Soc. Sci; co-auth, Perceived hindrances to social change in a poverty program, Sociol. & Soc. Res, 1/68. Address: 7119 Altara, Sylvania, Ohio 43560.

KAPLAN, DR. STEPHEN, b. St. Louis, Mo, Feb. 4, 36; m. 57; c. 1. PSYCHOLOGY. A.B, Oberlin Col, 57; Rackham fel, Michigan, 57-58, Nat. Sci. Found. fel, 59-60, Ph.D.(psychol), 62. Asst. prof. PSYCHOL, MICHIGAN, 62-66, ASSOC. PROF, 66-, distinguished serv. award, 65. AAAS; Psychol. Asn; Soc. Psychophysiol. Res. Neural net model of basic psychological processes, particularly cognition, perception and memory; role of arousal and individual differences. Publ: Searching behavior in undergraduates, Psychol. in Schs, 64; co-auth, The interaction of arousal and real interval in nonsense syllable paired associate learning, J. Exp. Psychol, 64; co-auth, A new technique for recording skin resistance, Am. J. Med. Electronics, 65. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

KAPLAN, DR. SYLVAN J(ULIAN), Radiobiol, Psychophysiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KAPLON, DR. MARTIN DAVID, b. New York, N.Y, Jan. 22, 18; m. 44; c. 2. PSYCHOLOGY. A.B, Cornell, 38; M.A, Tulane, 39; Mississippi, 39-40; fel, Maryland, 46-47, Ph.D.(psychol), 47. Study dir, prog. res. dept, Columbia Broadcasting Syst, 47-48; RES. DIR, PUBLISHERS GUILD INC, 48- U.S.N, 42-45. Psychol. Asn. Radio audience measurement; public opinion polls; statistics; personnel. Address: Publishers Guild Inc, 315 Park Ave. S, New York, N.Y. 10010.

KAPOOR, DR. ASHOK, b. Lahore, India, Nov. 21, 40; m. 67. BUSINESS ADMINISTRATION, INTERNATIONAL BUSINESS. M.B.A, North Carolina, 62, Ph.D.(bus. admin), 66. Res. asst. bus. admin, grad. sch. bus, North Carolina, 62-65, teaching assoc, 65-66; ASST. PROF. INT. BUS. & res. grant, GRAD. SCH. BUS, N.Y. UNIV, 66-, sr. fel, center int. studies, 66-67. Soc. Int. Develop. The nature of interaction-conflict and compromise between large foreign private investors and host governments of less developed countries of Asia in the process of foreign private investment. Publ:

Foreign collaborations India: problems and prospects, Patent, Trademark & Copyright J. Res. & Ed, summer & fall 66; co-auth, The Indian Investment Center: an evaluation, East. Economist, 7/67. Address: Dept. of Business Administration, New York University, 100 Trinity Place, New York, N.Y. 10006.

KAPOSTINS, PROF. ELI EGLONS, b. Riga, Latvia, Aug. 14, 23; nat; m. 57. PSYCHOLOGY. B.A, Willamette, 53; Higgins fel, Columbia, 53-54, M.A, 54, Ph.D, 61. Teacher, pub. schs, Latvia, 42-43; Latvian Sch. Displaced Persons, Germany, 46-48; asst. prof. PSYCHOL, WAGNER COL, 56-61, assoc. prof, 61-63, PROF. & CHMN. DEPT, 63- U.S. Pub. Health Serv. res. grant, 65-67. Psychol. Asn; N.Y. Acad. Sci. Learning processes and behavior theories; symbolic processes and verbal behavior; psychometrics. Publ: The effects of drl schedules on some characteristics of word utterance, J. Exp. Anal. Behav, 4/63; co-auth, Factors in postpartum emotional adjustment, Obstet. & Gynec, 2/65. Address: Dept. of Psychology, Wagner College, Staten Island, N. Y. 10301.

KAPOTES, DR. CHARLES N(ICHOLAS), b. Brooklyn, N.Y, Mar. 25, 27; m. 56; c. 3. CLINICAL PSYCHOLOGY. B.A, St. John's (N.Y), 50; Ph.D, N.Y. Univ, 55. Psychol. intern, Brooklyn State Hosp, 51-52; instr. psychol. & psychiat, med. col, Cornell, 55-57; psychologist, Payne Whitney Clin, New York Hosp, 55-57; geriat. rehab. psychiat. serv, Goldwater Mem. Hosp, N.Y. Univ. Med. Center, 57; New York Regional Off, Vet. Admin, 57-58; PSYCHOTHERAPIST, BLEULER PSYCHOTHER. CENTER, 58-; CHIEF PSYCHOTHERAPIST, NORTH NASSAU MENT. HEALTH CENTER, 64-, sr. psychotherapist, 58-64. Attend. psychologist, St. Mary's Hosp. Children, 59-U.S.N.R, 45-46. Psychol. Asn. Psychotherapy; psychoanalysis; psychodiagnostics; adjustment of sub-cultural and minority groups. Address: 111 Executive Dr, Manhasset Hills, N.Y. 11040.

KAPP, PROF. K(ARL) WILLIAM, b. Koenigsberg, Germany, Oct. 27, 10. ECONOMICS. Ph.D, Geneva, 36. Instr, N.Y. Univ, 38-43; Columbia, 44-46; asst. prof, Wesleyan, 46-50; assoc. prof. econ, Brooklyn Col, 50-53, PROF, 53-65; NAT. ECON, BASEL, 65- Fulbright res. prof, India, 57-58; Fulbright grant & lectr, Rajasthan, India, 61-62; Rockefeller vis. prof, Philippines, 64-65. Econ. Asn; Asn. Evolutionary Econ; Soc. Gen. Syst. Res. History of economic thought; integration of social sciences; economic development. Publ: Toward a science of man in society; Hindu culture, economic development and economic planning, 62 & Social cost of business enterprise, 63. Address: Institut für Sozialwissenschaften, Universität Basel, Petersplatz, Basel, Switz.

KAPP, WILLIAM ROBERT, b. Boston, Mass, June 6, 16; m. 40; c. 6. INTERNATIONAL RELATIONS, ECONOMICS. A.B, Drew, 37; American Univ, 40-43. News writer, radio news unit, Off. Inter-Am. Affairs, 41-43; v.consul, U.S. Dept. State, Guatemala & Spain, 43-45; asst. for. mkt. res, Int. Res. Assocs, Inc, 45-47; mkt. res. analyst for. div, Bristol-Myers Co, N.Y, 47-50; res. analyst, for. dept, Chase Manhattan Bank, 50-51; supvr. export licensing dept, PFIZER INT, INC, 51-54, dir. mkt. res. dept, 54-56, exec. asst. med. dept, 56-58, pres. int. econ. anal, 59-67, ECONOMIST, 67- Mem, Fed. Statist. Users Conf, 62- Econ. Asn; Asn. Bus. Econ; Soc. Int. Develop. The United States balance of payments and its effect upon business; development of the European common market; United States foreign economic policy; American economic relations with the Soviet bloc. Address: Trust Company National Bank, 225 South St, Morristown, N.J. 07960.

KAPPAUF, DR. WILLIAM E(MIL), b. New York, N.Y, Oct. 2, 13; m. 45; c. 4. PSYCHOLOGY. A.B, Columbia, 34, M.A, Brown, 35, Ph.D.(psychol), Rochester, 37. Instr. psychol, Rochester, 37-40; res. assoc, Nat. Defense Res. Cmt. Proj, Princeton, 41-42; res. assoc. & proj. dir, Brown, 42-45; consult, appl. psychol. panel, Nat. Defense Res. Cmt, 45; assoc. prof. PSYCHOL, Princeton, 46-51; PROF, ILLINOIS, URBANA, 51- Chmn, cmt. sensory devices, Nat. Res. Coun, 49-54. U.S. Naval Ord. Develop. award, 45; Presidential cert. merit, 48. AAAS; Psychol. Asn; Soc. Exp. Psychol; Psychonomic Soc. Vision; engineering psychology; psychophysical measurement methods; instrument scale design; statistical and quantitative methods. Address: Dept. of Psychology, University of Illinois, Urbana, Ill. 61801.

KAPPEL, JOSEPH W(ILLIAM), b. New York, N.Y, Dec. 6, 16; m. 44; c. 3. SOCIOLOGY. B.A, Brooklyn Col, 38; M.A, Columbia, 48. Anal. statistician, U.S. Bur. Budget, 49-55; asst. dir. res. & statist. serv. br, U.S. Off. Ed, 55-58; prog. anal. officer, off. secy, U.S. Dept. Health, Ed. & Welfare, 58-63; dir, statist. off, UNESCO, 63-66; DIR. OFF. INT. STATIST. PROG, NAT. CENTER HEALTH STATIST, U.S. PUB. HEALTH SERV, WASH, D.C, 66-U.S.N, 43-46. Statist. Inst; Statist. Asn; Pop. Asn. Statistics, survey methodology; demography. Publ: Book clubs and the value of books, Pub. Opinion Quart; Strategic intelligence and the publication of statistics, Am. Polit. Sci. Quart. Address: 509 Lamberton Dr, Silver Spring, Md. 20902.

KAPPEN, PROF. CHARLES VAUGHAN, Journalism, see 5th ed, Dir. Am. Scholars, Vol II, Eng, Speech & Drama.

KAPPLE, PROF. FRANK, b. Chicago, Ill, Sept. 22, 08; m. 35; c. 5. BUSINESS ADMINISTRATION. B.S, Illinois, 29; M.B.A, Chicago, 62. Salesman, E.I. du Pont de Nemours & Co, 29-41; v.pres, D.K. Mfg. Co, 41-58; ASST. PROF. BUS. ECON, WHEATON COL, 58- Evaluation of growth securities. Address: Dept. of Economics, Wheaton College, Wheaton, Ill. 60187.

KARABENICK, DR. EDWARD, b. Detroit, Mich, Aug. 24, 31; m. 55; c. 2. GEOGRAPHY. B.A, Wayne State, 54, M.A, 56; Ph.D.(geog), Michigan, 62. ASSOC. PROF. GEOG, CALIF. STATE COL. LONG BEACH, 59- Asn. Am. Geog. Settlement geography of North Africa and the Near East. Publ: Growth and development of nationalism in Tunisia, World Affairs Interpreter, summer 55; Settlement pattern of modern Rome, Calif. Geogr, 64; The Medjerda plan: a precedent to agrarian reform, Prfnl. Geogr, 2/67. Address: Dept. of Geography, California State College at Long Beach, Long Beach, Calif. 90801.

KARAN, PROF. PRADYUMNA PRASAD, b. Gaya, India, Feb. 9, 30. GEOGRAPHY. B.A, Patna, 48; Banares Hindu Univ, India, 50; Ph.D.(geog), Indiana, 56. Asst. prof. GEOG. KENTUCKY, 56-59, assoc. prof, 59-64, PROF, 64-, CHMN. DEPT, 67- Am. Geog. Soc; Asn. Geog; Nat. Coun. Geog. Ed; Soc. Int. Develop. Physical geography of South Asia; geomorphology of Himalaya; monsoon circulation; land use inventory and mapping; population, settlement and economic development in South Asia. Publ: Co-auth, The Himalayan kingdoms, Van Nostrand, 63; auth, Nepal: a cultural geography, 60 and Bhutan: a physical and cultural geography, 67, Univ. Kentucky. Address: Dept. of Geography, University of Kentucky, Lexington, Ky. 40506.

KARAS, DR. GEORGE G(URNEA), b. Wheaton, Ill, May 10, 33; m. 56; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, DePauw, 56; M.S, Purdue, 58, Ph.D. (psychol), 59. Asst. PSYCHOL, Purdue, 56-59; from asst. prof. to ASSOC. PROF, IOWA STATE, 59- AAAS; Psychol. Asn; Psychomet. Soc; Psychonomic Soc. Effects of infantile experience upon adult behavior; learning ability in paternal offspring of irradiated swine; form perception; animal learning. Publ: Co-auth, Effects of duration and distribution of infantile experience on adult learning, J. Comp. & Physiol. Psychol; Interactive effects of age and duration of infantile experience on adult learning, Psychol. Reports; Effects of differential infantile handling upon weight gain and mortality in the rat and mouse, Science. Address: Dept. of Psychology, Iowa State University, Ames, Iowa 50012.

KARAS, PROF. MILAN R(ICHARD), b. Youngstown, Ohio, Oct. 25, 11. MARKETING. A.B, Ohio Wesleyan, 37; A.M, Kent State, 42; Ph.D, Ohio State, 48. Instr, Ohio State, 46-48; asst. prof. MKT, COL. BUS. ADMIN, CINCINNATI, 49-55, PROF, 55-, ASSOC. DEAN, 59-, HEAD DEPT, 64- Consult, Retail Furniture Dealers Trade Asn, Cincinnati, 62; Small Bus. Admin, 67. Mkt. Asn; Sales & Mkt. Exec. Int. Market retailing and distribution; history of price control in the United States and other countries; contributions made by the wholesaler to the economy of Cincinnati. Address: Dept. of Marketing, College of Business Administration, University of Cincinnati, Cincinnati, Ohio 45221.

KARAS, DR. SHAWKY F, b. Akmim, Egypt, Oct. 6, 28; m. 53; c. 4. PSYCHOLOGY, STATISTICS. B.Sc, Cairo, 49; M.A, Columbia, 61, Ed.D.(psychol), 64; M.S, Rutgers, 66. Teacher, high schs, Egypt, 49-59, chmn. dept. math, 57-59; statist. assoc, Ed. Testing Serv, N.J, 62-66; asst. prof. psychol, St. Bonaventure, 66-67; ASSOC. PROF. ED. RES, SOUTH. CONN. STATE COL, 67- Psychol. Asn; Statist. Asn; Psychomet. Soc. Educational and psychological measurement; psychometrics and their application in education. Publ: Change in scholastic aptitude test-scores of candidates tested in junior & senior years 1961-1964, 65 & Development of a reduced set of composite equations for three predictors, 66, Ed. Testing Serv. Address: Educational Research Training Program, Southern Connecticut State College, 501 Crescent St, New Haven, Conn. 06515.

KARCZ, DR. JERZY FELIKS, b. Grudziadz, Poland, Nov. 8, 21; U.S. citizen; m. 50; c. 5. ECONOMICS. B.A, Alliance Col, 50; M.A, Kent State, 52; Ford. Found. fel. & Ph.D.(econ), Columbia, 58. Consult. Soviet econ, Rand Corp, Calif, 54-55; res. assoc. input-output, inst. res. soc. sci, North Carolina, 57-60; asst. prof. ECON, CALIFORNIA, SANTA BARBARA, 60-64, ASSOC. PROF, 64- Inter-Univ. Cmt. on Travel Grants study grants, U.S.S.R, 62 & Bulgaria & Czech, 66-67. Consult, Johnson Res. Assocs, 62-; mem. exec. cmt, Conf. Soviet Agr. Affairs, 62-, chmn. exec. cmt, 64-65. Polish Armed Forces, 39-48. Econ. Asn; Asn. Adv. Slavic Studies; Asn. Comp. Econ. Comparative economic systems; Soviet economy; role of agriculture in socialist economic development, especially planning, decision making and prices. Publ: Co-auth. & ed, Soviet and East European agriculture, Univ. California, 67; auth, Quantitative analysis of the collective farm market, Am. Econ. Rev, 6/64; Thoughts on the grain problem, Soviet Studies, 4/67. Address: Dept. of Economics, University of California, Santa Barbara, Calif. 93106.

KARDINER, DR. ABRAM, b. New York, N.Y, Aug. 17, 91; m. 48; c. 1. PSYCHIATRY. B.A, City Col. New York, 12; M.D, Cornell, 17. CONSULT. PSYCHIAT, COLUMBIA, 58-; RES. PROF, EMORY, 59- AAAS; Psychiat. Asn; Psychoanal. Asn. Psychodynamics and social sciences. Publ: The individual and his society, Columbia, 39; Traumatic neurosis of war, Harper, 41; co-auth, The mark of oppression, Norton, 51. Address: 1100 Park Ave, New York, N.Y. 10028.

KAREKEN, PROF. J(OHN) H(ENRY), b. Buffalo, N.Y, Jan. 3, 29; m. 55. ECONOMICS. A.B, Buffalo, 51; Soc. Sci. Res. Coun. fel, Mass. Inst. Tech, 55-56. Instr. ECON, Mass. Inst. Tech, 55-56; from instr. to PROF, SCH. BUS. ADMIN, MINNESOTA, MINNEAPOLIS, 56- Econ. Asn. Monetary theory; fiscal policy. Address: Dept. of Economics, School of Business Administration, University of Minnesota, Minneapolis, Minn. 55455.

KARG, DR. ROBERT L(AWRENCE), Econ, Statist, see 10th ed, Soc. & Behav. Vols.

KARGER, DEAN DELMAR WILLIAM, b. Cape Girardeau, Mo, May 9, 13; m. 36; 62; c. 3. BUSINESS MANAGEMENT, INDUSTRIAL ENGINEERING. B.S, Valparaiso, 35; M.S, Pittsburgh, 47; From electrician to acting asst. plant engr, Int. Harvester Co, 35-42; mem. staff, hq. mfg. eng, Westinghouse Elec. Corp, 42-45, supvr. coop. ed, 45-47; factory mgr, Pa. Elec. Coil Co, 47-48; mgr. orgn. & syst, Radio Corp. Am, 48-49, chief indust. engr, RCA Serv. Co, 49-51; sr. staff. engr, Booz Allen & Hamilton, 51; chief plant & indust. engr, Magnavox Co, 51-56, mgr. new prod. develop, 56-59; PROF. ED. & RES. & HEAD DEPT. MGT. ENG, RENSSELAER POLYTECH, 59-, DEAN SCH. MGT, 63- Pres. & dir, Randac Systs, Inc, 61-63; dir, Fiber Glass Ind, 61-; Wellington, Elec. Inc, 63-; Inst. Res. Mgt, 67- Mgt. consult, 59- Methods Time Measurement Asn. for Standards & Res. & Rensselaer Polytech. rep. & mem. bd. dirs, Coun. Int. Progress Mgt, 63-65. Fel. AAAS; fel. Inst. Indust. Eng.(v.pres, 58-59); Inst. Plant Eng; Soc. Eng. Ed; Methods Time Measurement Asn. for Standard Res.(v.pres, asst. to pres, pres, 58-60); fel. Soc. Adv. Mgt; Statist. Asn; Inst. Mgt. Sci; Int. Univ. Contact Mgt. Ed. Human factors and behavioral sciences in management. Publ: Auth, The new product, 60 & co-auth, Managing engineering and research, 63 & Engineered work measurement, 66, Indust. Press. Address: 5 Whitman Court, Troy, N.Y. 12180.

KARIEL, PROF. HENRY S, b. July 7, 24; m. 50; c. 2. POLITICAL SCIENCE. B.A, Washington (Seattle), 48; Zurich, 49; M.A, Stanford, 50; Ph.D.(polit. sci), California, 54. Instr. govt, Harvard, 55-58; faculty POLIT. SCI, Bennington Col, 58-64; PROF, HAWAII, 64- Rockefeller grant, 54-55. U.S.A, 42-45. Polit. Sci. Asn; Soc. Legal & Polit. Philos. Social science methodology; political theory; American government; parties and interest groups. Publ: Decline of American pluralism, Stanford, 61; In search of authority, Macmillan, 64; The promise of politics, Prentice-Hall, 66. Address: Dept. of Political Science, University of Hawaii, Honolulu, Hawaii 96822.

KARIEL, DR. HERBERT GEORGE, b. Plauen, Germany, Aug. 1, 27; m. 50; c. 2. GEOGRAPHY. B.S, Oregon, 49, M.Ed, 54; Ph.D.(geog), Iowa, 62. Teacher, pub. schs, 51-59; asst. GEOG, Iowa, 59-62; asst. prof, West. Wash. State Col, 62-65; ASSOC. PROF, CALIF. STATE COL. HAYWARD, 65- Fulbright award, N.Z, 56-57; grant, West. Wash. State Col, 63. Summers, lectr. Calgary, 62; Nat. Defense Ed. Act, Inst. Adv. Study Geog, Fresno, Calif, 66; res. grant, 67. U.S.N.R, 45-46. AAAS; Asn. Am. Geog; Pop. Asn. Am; Regional Sci. Asn. Cultural or social geography and the geography of population; application of quantitative methods and scientific methodology to the solution of geographic problems. Address: Dept. of Geography, California State College, Hayward, Calif. 94542.

KARINEN, PROF. ARTHUR E(LI), b. Comptche, Calif, Feb. 25, 19; m. 46; c. 4. GEOGRAPHY. A.B, California, 44, M.A, 48; Ph.D, Maryland, 58. Instr. GEOG, Ohio State, 46-47; asst. prof, Maryland, 48-59; CHICO STATE COL, 59-62, assoc. prof, 62-66, PROF. & HEAD DEPT, 66- AAAS; Asn. Am. Geog; Cong. Surv. & Mapping. Population and California geography; cartography. Publ: Co-auth, California: land of contrast, Wadsworth, 63. Address: 834 Arbutus Ave, Chico, Calif. 95926.

KARIS, DR. CHARLES, b. Peabody, Mass, June 20, 32; m. 58; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Boston, 53, A.M, 55, Ph.D.(exp. psychol), 61. Res. asst. PSYCHOL, sch. pub. health, Harvard, 58-61; asst. prof, NORTHEASTERN, 61-67, ASSOC. PROF, 67- AAAS; Psychol. Asn. Human factors in accident causation; speech analysis and synthesis; human engineering, animal and human learning. Publ: Co-auth, Human factors in the design of trucks, Harvard Sch. Pub. Health, 57, Study and investigation of speech data, U.S. Air Force Cambridge Res. Labs, 63 & Alterations in critical flicker frequency as a function of age and light-dark ratio, J. Exp. Psychol, 58. Address: Dept. of Psychology, Northeastern University, Boston, Mass. 02115.

KARLEN, DR. HARVEY M(ARSHALL), b. Chicago, Ill, Feb. 20, 18; m. 44; c. 2. POLITICAL SCIENCE. Ph.D.(polit. sci), Chicago, 50. Lectr, dept. govt, City Col. New York, 46-50; PROF. POLIT. & SOC. SCI, CHICAGO CITY COL, 50-, chmn. dept. soc. sci, 61-63. Lectr, Chicago Teachers Col, 59-63; Roosevelt, 63-68. Consult, Chicago Dept. Planning, 59; Hotpoint Co, 59. U.S.A, 41-45, Lt. Polit. Sci. Asn; U.S. Philatelic Classics Soc. Municipal and United States National government; public administration; television teaching; Chicago postal history. Publ: Governments of Chicago; American government essentials, Courier, 64; The pattern of American government, Glencoe, 68. Address: 315 N. Maple Ave, Oak Park, Ill. 60302.

KARLIN, DR. JOHN E, Psychophysiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KARLIN, PROF. LAWRENCE, b. New York, N.Y, Dec. 16, 17; m. 39. PSYCHOLOGY. A.B, Brooklyn Col, 40; M.A, Columbia, 43; Ph.D, N.Y. Univ, 50. Marine engr, design sect, Navy Yard, N.Y, 42-46; res. analyst, personnel res. sect, Adj. Gen. Off, D.C, 46-48; from instr. to assoc. prof. PSYCHOL, WASH. SQ. COL, N.Y. UNIV, 48-65, PROF, 65- Instr, City Col. New York, 43-46. Prin. investr, U.S. Naval Training Devices Center, 60-62; Nat. Inst. Ment. Health, 65-68. Assoc. subcmt. vision, Armed Forces-Nat. Res. Coun. AAAS; Psychol. Asn; Psychonomic Soc. Visual perception; response processes. Address: Dept. of Psychology, New York University, Washington Square, New York, N.Y. 10003.

KARLIN, PROF. SAMUEL, b. Yonava, Poland, June 8, 23; nat; m. 47; c. 3. MATHEMATICS, STATISTICS. B.S, Ill. Inst. Tech, 44; Ph.D.(math), Princeton, 47. Asst. prof. math, Calif. Inst. Tech, 49-50, 51-54, assoc. prof, 54-56; vis. asst. prof, Princeton, 50-51; PROF. MATH. & STATIST, STANFORD, 56- Consult, Rand Corp, Calif, 48- Math. Soc; Inst. Math. Statist; Statist. Asn. Problems in mathematics, statistics, genetics and biology. Publ: Matrix games, programming and mathematical economics; Theory of Infinite games; co-ed, Contributions to mathematical methods in the social sciences. Address: Dept. of Mathematics & Statistics, Stanford University, Stanford, Calif. 94305.

KARMEL, DR. BERNARD Z(ELICK), b. Washington, D.C, Oct. 21, 38; m. 61; c. 1. DEVELOPMENTAL PSYCHOLOGY. B.A, George Washington, 61, M.S, 64, Nat. Inst. Ment. Health fel, 64-65, Ph.D.(psychol), 66. Asst. prof. psychol, San Diego State Col, 65-66; vis. asst. prof. child develop, inst. child develop, Minnesota, Minneapolis, 66-67; NAT. INST. MENT. HEALTH RES. FEL. PSYCHOL, CALIFORNIA, RIVERSIDE, 67- Prin. investr, U.S. Pub. Health Serv. grant, 67-68. Psychol. Asn; Soc. Res. Child Develop. Animal Behav. Soc. Visual perception; development of visual behaviors; child perceptual and physiological development. Publ: Co-auth, Depth perception in the dark-reared rat as a function of time in the dark, Psychonomic Sci, 65; auth, Randomness, complexity and visual preference behavior in rat and chick, J. Comp. Physiol. Psychol, 66; The effect of age, complexity and amount of contour on pattern preferences in human infants, J. Exp. Child. Psychol, 68. Address: Dept. of Psychology, University of California, Riverside, Calif. 92507.

KARN, PROF. HARRY W(ENDELL), b. Pittsburgh, Pa, Feb. 11, 07; m. 36. PSYCHOLOGY. B.S, Muskingum Col, 29; M.A, Pittsburgh, 31; Ph.D.(psychol), Clark, 34. Psychologist, West. State Penitentiary, Pittsburgh, 34-36; instr. PSYCHOL, Pittsburgh, 36-39, asst. prof, 39-43; PROF, CARNEGIE-MELLON UNIV, 46- U.S.N, 43-46, Lt. Fel. Psychol. Asn. Perceptual learning; learning and training. Publ: An introduction to psychology; Readings in industrial and business psychology. Address: 53 Pocono Dr, Pittsburgh, Pa. 15220.

KARNES, PROF. LOWRY B(RUCE), b. Plevna, Kans, June 21, 06; m. 40. GEOGRAPHY. A.B, Muskingum Col, 30; M.A, Ohio State, 31, Ph.D.(geog), 40; Wisconsin. Instr. GEOG, Rochester, 40-45; asst. prof. BOWLING GREEN STATE, 45-48, assoc. prof, 48-55, PROF, 55-, chmn. dept. geog, 51-64. Asn. Am. Geog; Geog. Soc; Acad. Polit. & Soc. Sci; Nat. Coun. Geog. Ed. Regional and economic geography. Address: 228 S. Summit, Bowling Green, Ohio 43402.

KARON, DR. BERTRAM P(AUL), b. Taunron, Mass, Apr. 29, 30; m. 58; c. 1. PSYCHOLOGY. A.B, Harvard, 52; fel, Ed. Testing Serv. & Princeton, 52-55, M.A, Princeton, 54, U.S. Pub. Health Serv. fel, 56-57, Ph.D.(psychol), 57. Intern with Dr. John N. Rosen, 55-56; sr. clin. psychologist, Annandale Reformatory, 58; U.S. Pub. Health Serv. fel, Phila. Psychiat. Hosp, 59-61; private practice psychother, Pa, 61-62; asst. prof. PSYCHOL, MICH. STATE, 62-63, ASSOC. PROF, 63- Lectr, Ypsilanti State Hosp, 64; Nat. Inst. Ment. Health res. grant, Mich. State Psychother. Proj, Mich. State. Univ. & Detroit Psychiat. Inst, 66-68. Psychol. Asn; Statist. Asn. Psychotherapy; schizophrenia; effects of segregation. Publ: The Negro personality, Springer Pub, 58; co-auth, The homosexual urges in schizophrenia, Psychoanal. Rev, 58; auth, The resolution of acute schizophrenic reactions, Psychotherapy, 63. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

KARON, EDWARD S(HELDON), b. Taunton, Mass, July 23, 23; m. 44. CLINICAL PSYCHOLOGY. A.B, Ohio, 47, M.A, 48; Pennsylvania, 48-50. Psychol. intern, Vet. Admin. Ment. Hyg. Clin, Phila, Pa, 48-50; private practice, 50-52; EXEC. DIR, Akron Psychol. Consult. Center, 52-61; AKRON PSYCHOL. CONSULT. SERV, 61- Instr, dept. psychol, Akron, 51-53; sch. psychologist, Geauga Co, Ohio, 63-67, coordinator psychol. serv, bd. ed, 67- U.S.A, 43-46, Med. Serv. Res, 63-, Maj. AAAS; Psychol. Asn; Anthrop. Asn; Soc. Appl. Anthrop; Nat. Ed. Asn. Depth counseling; group dynamics; marital, vocational and personnel guidance; psychological diagnosis and placement. Publ: Differentiation and differential counsel of some neurotic personalities, J. Psychol; Techniques of primitive witchcraft in modern psychotherapy, Acta Psychotherapeutica. Address: Akron-Tallmadge Psychological Consulting Service, Box 377, Tallmadge, Ohio 44278.

KARP, DR. ETTA E(LIS), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

KARP, PROF. J(ACOB) ROBERT, Econ, see 10th ed, Soc. & Behav. Vols, deceased 63.

KARP, PROF. MARK, b. Sambor, Poland, Oct. 25, 22; m. 47; c. 1. ECONOMICS. A.B, Boston, 52; A.M, Fletcher Sch. Law & Diplomacy, 53, Ph.D.(int. econ), 59. RES. ASSOC. AFRICAN STUDIES CENTER, BOSTON, 54-, asst. prof. ECON, 59-61, ASSOC. PROF, 61- Res. analyst Africa sect, res. & anal. br, Off. Strategic Servs, 43-45. U.S.A, 43-45, Sgt. Econ. Asn; fel. African Studies Asn; Acad. Polit. & Soc. Sci. Economic development of underdeveloped areas, especially of Africa. Publ: The Economics of trusteeship in Somalia; co-ed, Population in Africa. Address: African Studies Center, Boston University, 10 Lenox St, Brookline, Mass. 02146.

KARP, DR. STEPHEN A(RNOLD), b. New York, N.Y, Aug. 28, 28; m. 52; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 49; M.A, New Sch. Soc. Res, 52; Ph.D. (psychol), N.Y. Univ, 62. Lectr. psychol, Dickinson Col, 53-54; from instr. to asst. prof. psychiat, State Univ. N.Y. Downstate Med. Center, 54-64; CHIEF PSYCHOLOGIST, PSYCHIAT. DEPT, SINAI HOSP. BALTIMORE, 64- U.S.A, 52-54. AAAS; Psychol Asn; Psychosom. Soc. Development of human personality; personality factors in illness. Publ: Co-auth, Psychological differentiation, Wiley, 62; auth, Field dependence and overcoming embeddedness, J. Consulting Psychol, 63; co-auth, Psychological differentiation in obese women, Psychosom. Med, 65. Address: Dept. of Psychiatry, Sinai Hospital of Baltimore, Baltimore, Md. 21215.

KARP, WILLIAM, b. New York, N.Y, Mar. 12, 10; m. 40; c. 1. INDUSTRIAL & COUNSELING PSYCHOLOGY. B.A, Alabama, 32; Columbia, 33-37, M.A, 53. Psychologist, bur. child guid, New York Bd. Ed, 33-36, youth worker, 36-38; exec. dir. employ. & counseling serv, East Side Job Coun, 38-41; dir. guid. serv, Young Men's Hebrew Asn, 41-42; supvr. voc. rehab, State Dept. Ed, 42-43; sr. officer psychol. & guid. serv, guid. & training div, Vet. Dept, D.C, 46-47; dir. voc. serv, N.Y. Asn. New Am, Inc. & United Serv. New Am, Inc, 47-52; PRES, WILLIAM KARP CONSULT. CO, INC, 52- Consult, East. European Proj, Ford Found, 53-55; Dept. Health, Ed. & Welfare, Soc. Security Admin. & Bur. Hearings & Appeals, 62; high coun, Indust. Mgt. Inst, Ministry Econ, Govt. Iran, 65. Pres, Cultural Arts Surv, Inc, 66-; Am. Diversified Res. Corp, 67- Co-chmn, Nat. Conf. New Am, 49-50; chmn. employ. & guid. agencies, New York Welfare Coun. & exec. v.chmn, Mayor's Cmt. Manpower Planning & Utilization, New York, 49-51; chmn. resources & develop. cmt, Nat. Asn. Intergroup Rels. Off, 58-60; mem, Gov. Grievance Panel, Ill. State Employees, 63-; secy, Ill. Cmn. Automation & Tech. Progress & chmn. cmt, Automation Developments in Indust. & Agr, 65-67; tech. consult, Ill. Cmn. Tech. Progress, 68- U.S.A.A.F, 43-46, Lt. AAAS; Psychol. Asn; Personnel & Guid. Asn; Indust. Rels. Res. Asn; Soc. Study Social Issues; Voc. Guid. Asn; Pub. Personnel Asn; N.Y. Acad. Sci; Asn. Measurement & Eval. in Guid. Psychological evaluation in relation to work; patterns of employment discrimination in industry; counseling techniques; industrial group dynamics; manpower planning and utilization in relation to technological change; labor-management relations. Publ: Patterns of job discrimination in Chicago, Voc. Guid. Quart, summer 64; Report on automation and technological progress, State of Ill, 4/67; The impact of technological change upon manpower in the banking industry, U.S. Treas, 12/67. Address: William Karp Consulting Co, Inc, 900 N. Michigan Ave, Chicago, Ill. 60611.

KARPAT, PROF. KEMAL H, b. Tulca, Dobruja, Feb. 15, 25. POLITICAL SCIENCE, HISTORY. LL.B, Istanbul, 47; M.A, Washington (Seattle), 50; Ph.D.(polit. sci), N.Y. Univ, 57. Res. asst. soc. affairs, UN, 52-53; asst. prof. polit. sci, Montana State, 57-58, assoc. prof, 59-60; acting chmn. dept. pub. admin, Middle East Tech, Ankara, 58-59; fel. mid. east studies, Harvard, 60-61; Soc. Sci. Res. Coun. grant, 61-62; from asst. prof. to assoc. prof. polit. sci, N.Y. Univ, 62-67; PROF. HIST, WISCONSIN, 67- Soc. Sci. Res. Coun. grant, Conf. Soc. Growth & Polit. in Turkey, 65. Trustee, Inst.

Mediterranean Affairs, 67-; summer dir, seminar univ. prof. in comp. govt, Columbia, 63. Turkish Army, 53-55, 2nd Lt. Hist. Asn; Am. Polit. Sci. Asn; Mid. East Inst; Mid. East Studies Asn. N.Am; Int. Polit. Sci. Asn. Quantitative measurement of political and social development; social economic transformation of Ottoman state, especially conceptual study of historical sequences of development. Publ: Turkey's politics, Princeton, 54; Political and social thought in the contemporary Middle East, Praeger, 58. Address: Bascom Hall, University of Wisconsin, Madison, Wis. 53706.

KARPF, DR. FAY B(ERGER), b. Apr. 17, 93; m. 15. SOCIAL PSYCHOLOGY, SOCIOLOGY. B.S, Northwestern, 19; Ph.D.(soc. psychol, sociol), Chicago, 25. Mem. faculty, Grad. Sch. Jewish Soc. Work, 27-40; private practice, 41- Psychol. Asn; Sociol. Asn; Asn. Social Workers. Personality and psychotherapy; social and psychological factors in art. Publ: American social psychology, its origins, development and European background; Psychology and psychotherapy of Otto Rank; Dynamic relationship therapy. Address: 8924 Clifton Way, Beverly Hills, Calif. 90211.

KARPF, DR. MAURICE J, Psychol, Sociol, see 10th ed, Soc. & Behav. Vols.

KARPINOS, DR. BERNARD D, b. Lubar, Russia, Nov. 12, 03; nat; m. 46; c. 2. SOCIOLOGY. B.A, Iowa, 30, M.A, 32, Ph.D.(sociol), 34. Soc. analyst, State Planning Bd, Iowa, 33-35; economist, Nat. Resources Cmt. Urbanism, Chicago, Ill, 35-36; analyst, State Tax Cmn, 36-38; statistician, U.S. Pub. Health Serv, 38-42; MED. STATISTICIAN, OFF. SURGEON GEN, U.S. DEPT. ARMY, 46- U.S.A, 42-46, Maj. Fel. AAAS; fel. Statist. Asn; Pop. Asn; Biomet. Soc; Royal Statist. Soc. Demography; differential fertility; anthropology; military health statistics. Publ: Qualification of American youths for military service; The mental qualification of American youths for military service and its relationship to educational attainment, Proc. Am. Statist. Asn, Soc. Statist. Sect, 66; Mental test failures, In: The draft—a handbook of facts and alternatives, Univ. Chicago, 67. Address: 3502 May St, Wheaton, Md. 20906.

KARPOFF, EDWARD, b. San Francisco, Calif, Feb. 2, 18; m. 42; c. 2. AGRICULTURAL ECONOMICS. B.S, Rutgers, 38; M.S, Connecticut, 40. AGR. ECONOMIST, U.S. DEPT. AGR, WASH, D.C, 41- Adv. to U.S. Del, World's Poultry Cong, Paris, France, 51; Mexico City, Mex, 58; Sydney, Australia, 62; Kiev, U.S.S.R, 66; mem. U.S. Del, Gen. Agreement on Tariff & Trade, UN, Switz, 67. Econ. Asn; Agr. Econ. Asn; Poultry Sci. Asn; World Poultry Sci. Asn. Commodity price analysis; agricultural policy; economic problems of the poultry industry. Publ: Poultry and egg situation, through 1961. Address: 4906 Bangor Dr, Kensington, Md. 20795.

KARR, DR. CHADWICK, b. Yakima, Wash, Feb. 12, 19; m. 42; c. 2. PSYCHOLOGY. B.A, Washington (Seattle), 41, M.S, 56, Ph.D.(psychol), 58. Res. psychologist, Boys & Girls Aid Soc, 58-60; asst. prof. PSYCHOL, PORTLAND STATE COL, 60-63, assoc. prof, 63-67, PROF, 67-, HEAD DEPT, 66- Psychol. Asn. Characteristics of couples seeking marriage conciliation; cross-cultural comparisons of child-rearing techniques. Address: Dept. of Psychology, Portland State College, Portland, Ore. 97207.

KARR, DR. GERALD LEE, b. Emporia, Kans, Oct. 15, 36; m. 59; c. 2. ECONOMICS. B.S, Kansas State, 59; M.S, Southern Illinois, 62, Ph.D.(econ), 66. Livestock mgr, Eckert Orchard Inc, Ill, 59-60; asst. prof. econ, Cent. Mo. State Col, 64-67; SR. LECTR. AGR. ECON, NJALA UNIV. COL, SIERRA LEONE, 67- Lectr, Southern Illinois, summers 62-64; coordinator, African-Am. Inst. Seminar, summer 66. Res. adv, Bank of Sierra Leone, 67. U.S.A.R, 59-65. Econ. Asn; Agr. Econ. Asn. Livestock marketing and economic development; agriculture finance; farm management. Publ: Feeder pig marketing and pricing in Illinois & Feeder pig dealers and traders in selected counties of Illinois, Southern Illinois Sch. Agr, 63. Address: Private Mailbag, Njala University College, Freetown, Sierra Leone, West Africa.

KARRAKER, DR. RONNIE JOE, b. Anna, Ill, Nov. 22, 38; m. 59; c. 2. PSYCHOLOGY, EDUCATION. B.A, Southern Illinois, 60, M.S, 63; Ed.D.(ed. psychol), Indiana, 65. ASSOC. PROF. ED. PSYCHOL, MISSOURI, KANSAS CITY, 65- Psychol. Asn; Ed. Res. Asn; Soc. Res. Child Develop. Experimental analysis of behavior. Address: 6706 Holmes, Kansas City, Mo. 64131.

KARRAKER, DR. WILLIAM JACOB, b. U.S, Jan. 20, 09. PSYCHOLOGY. B.S, Kentucky, 31, M.A, 36; fel, Texas, 35; Ed.D.(ed, counseling), Denver, 50. Teacher, Dongola High Sch, 32-35; ed. psychol, York Col, 36-41, dean, 45-49; instr. pilot training, Rankin Aeronaut. Acad, 41-43; supvr, Clinton Eng. Works, Tenn, 43-45; counsr. trainer, Cent. Mo. State Col, 50-53; Tex. Wesleyan Col, 53-59; DIR. TESTING & COUNSELING, TEXAS, ARLINGTON, 59- South. fel, 57. U.S.A.A.F.R, 41-45. Psychol. Asn; Personnel & Guid. Asn. Studies related to group guidance of college students and factors influencing their academic achievement. Publ: Influence of student load on academic achievement of college students; Evaluation of group guidance on personality change in college students. Address: 1217 W. Park Row, Arlington, Tex. 76010.

KARRAS, DR. ATHAN, b. New York, N.Y, Sept. 15, 30; m. 55; c. 1. PSYCHOLOGY. B.A, Queens Col.(N.Y), 53; Vet. Admin. trainee, Rochester, 56-60, Ph.D.(psychol), 60. RES. ASSOC. PSYCHOL, dept. psychiat, Ohio State, 60-67; HILLSIDE HOSP, 67- U.S.A, 53-55. Psychol. Asn; Asn. Adv. Behav. Ther. Psychopathology; learning; psychomotor performance; pharmacology. Publ: The effects of reinforcement and arousal on the psychomotor performance of chronic schizophrenics, J. Abnorm. & Soc. Psychol, 62; co-auth, Taste thresholds in twins and siblings, Acta Genetica Gemellologica, 67; auth, Effect of delay of escape and response compatibility on human reaction time, Brit. J. Psychol, 68. Address: Research Dept, Hillside Hospital, 75-59 263rd St, Glen Oaks, N.Y. 11004.

KARREMAN, PROF. HERMAN F(ELIX), Appl. Math, see 11th ed, Phys. & Biol. Vols.

KARROLL, JOSEPH ELLIOTT, b. Bronx, N.Y, Mar. 24, 22; m. 47; c. 3. PSYCHOLOGY, MATHEMATICS. B.S, N.Y. Univ, 50, M.A, 51. Res. aide psychol, N.Y. Univ, 50, asst. systs. res, 51-52; eng. psychologist, Columbia, 52-54, consult, 54; res. psychologist, U.S. Naval Res. Lab, 54-55; assoc. engr, Int. Bus. Mach. Corp, 55-57; sr. res. engr, res. center, Burroughs Corp, 57-58; prin. mem. design eng. staff, Radio Corp. Am, Calif, 58-60, systs. eng. staff, 60-61, leader systs. eng. staff, 61-63; asst. to pres. adv. data systs. div, Litton Industs, Inc, 63-66; STAFF SCIENTIST, HUGHES AIRCRAFT CO, 67- U.S.A, 42-45. Psychol. Asn. Systems evaluation; research optimization and analysis; human factors research; operations evaluation and analysis; information processing systems; applications engineering. Publ: Evaluation of NRL electronic data system; An exploratory image-interpretation experiment & Down range anti-missile ship operations analysis. Address: 9845 Shoshone Ave, Northridge, Calif. 91324.

KARSCH, PROF. ROBERT F(REDERICK), b. Farmington, Mo, Nov. 12, 09; m. 40; c. 1. POLITICAL SCIENCE. A.B, Westminster Col, 32; A.M, Vanderbilt, 34; Chicago, 38-41; Ph.D, Missouri, 48. Prof. POLIT. SCI, Westminster Col, 35-46; instr, MISSOURI, 47-48, asst. prof, 48-49, assoc. prof, 49-54, PROF, 54-, chmn. dept, 58-64. Vis. prof, Jadavpur Univ, India, 64-65. Polit. Sci. Asn; Soc. Pub. Admin. American government and legislation. Publ: Missouri citizen & Government of Missouri, Lucas Bros, 66; Understanding the Missouri constitution, State Pub. Co, St. Louis, 67. Address: Dept. of Political Science, University of Missouri, Columbia, Mo. 65201.

KARSH, PROF. B(ERNARD), b. Chicago, Ill, Aug. 25, 21; m. 46. SOCIOLOGY. M.A, Chicago, 50, Ph.D, 54. Instr. indust. rels, Chicago, 52-53, asst. prof, 53-55; SOCIOL, ILLINOIS, URBANA, 55-58, assoc. prof, 58-63, PROF, 63- Consult, Asia Found, 61-65; Ford Found, 62-64. U.S.A.A.F, 39-43. Sociol. Asn; Indust. Rels. Res. Asn; Acad. Polit. & Soc. Sci. Industrial relations; social psychology; research methods; technology and social change; social change in developing countries. Publ: Diary of a strike, Univ. Illinois, 58; co-auth, The worker views his union, Univ. Chicago, 58. Address: Dept. of Sociology, University of Illinois, Champaign, Ill. 61820.

KARSH, DR. EILEEN B(ARBARA), b. New York, N.Y, July 6, 35. EXPERIMENTAL PSYCHOLOGY. A.B, Columbia, 56; Nat. Sci. Found. fel, Yale, 56-58, M.S, 58, Ph.D, 59. Asst. PSYCHOL, Yale, 58-59; U.S. Pub. Health Serv. res. fel, Pennsylvania, 59-61, assoc, 60-61; res. assoc, Swarthmore Col, 61-63; asst. prof. biomed. eng, Drexel Inst, 63-67; ASSOC. PROF. PSYCHOL, TEMPLE, 67- U.S. Pub. Health Serv. res. grants, 62-63, 64-67, 67-70; contract, Air Force Missle Develop. Center, Holloman Air Force Base, N.Mex, 66-67. AAAS; Psychol. Asn; Psychonomic Soc; Biomet. Soc; Statist. Asn. Behavior theory; reward and punishment in learning; conflict and stress; experimental design. Publ: Effects of number of rewarded trials and intensity of punishment on running speed, J. Comp. Physiol. Psychol; Changes in intensity of punishment: effect on running behavior of rats, Science, 63; Effects of delayed and partial punishment on choice behavior, Am. Psychol. Asn. Proc, 68. Address: Dept. of Psychology, Box 287 Carnell Hall, Temple University, Philadelphia, Pa. 19122.

KARSKI, DR. JAN, b. Lodz, Poland, Apr. 24, 14; nat. COMPARATIVE GOVERNMENT, COMMUNICATIONS. M.A.(law) & M.A.(diplomatic sci), Jan Kazimierz Univ, Poland, 35; Ph.D, Georgetown, 52. With Ministry For. Affairs, Poland, 37-39; Polish Embassy, D.C, 44-45; asst. prof. COMP. GOVT, GEORGETOWN, 35-60, ASSOC. PROF, 60- Lectr, int. leadership prog, U.S. Dept. of State, 55-56; Air Univ, 55-62; strategic int. sch, U.S. Dept. of Defense, 54-62. Consult, Congressional Cmt. Communist Aggression, 54-55. Polit. Sci. Asn; Asn. Adv. Slavic Studies; Acad. Polit. Sci; Polish Inst. in Am. East European affairs. Publ: Story of a secret state; The Great Powers and Poland, 1919-1945, From Versailles to Potsdam. Address: 4601 Grant Rd. N.W, Washington, D.C. 20016.

KARSLAKE, DR. JAMES SPIER, b. Iowa City, Iowa, May 8, 05; m. 38; c. 2. PSYCHOLOGY. A.B, Michigan, 26; M.A, Harvard, 37; M.A, Iowa, 37; Ph.D. (psychol), Purdue, 40. Instr. psychol, Hiram Col, 39-40; Ohio State, 40-42; admin. asst, U.S. War Dept, Ohio & Ga, 42-44; consult. psychologist, Stevenson, Jordon & Harrison, Ill, 44-45; Rohrer, Hibler & Replogle, 45-46; dir. res, 46-48; assoc. prof. PSYCHOL, MICH. STATE, 48-59, PROF, 59-, acting chmn. dept, 62-63, asst. head, 59-62. Fel. AAAS; Psychol. Asn. Psychological problems of business and industry; experimental design; human factors in equipment design; employee attitudes; consumer research. Publ: Schedule making made easy, Sch. Rev; Supplementary equipment useful in research on eye-movement, Am. J. Psychol; The Purdue eye-camera: a practical apparatus for studying the attention-value of advertisements, J. Appl. Psychol. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

KARSON, PROF. MARC, b. Brooklyn, N.Y, Feb. 8, 20. POLITICAL SCIENCE. B.S, American Univ, 46; Ph.D, London, 49. Asst. prof. polit. sci, Washburn, 49-51, assoc. prof, 51-56; govt, Southern Illinois, 56-60, asst. dir. labor inst, 58-60; nat. ed. dir, Amalgamated Clothing Workers Am, 60-64; assoc. prof. POLIT. SCI, Kingsborough Community Col, 64-65; PROF, N.CENT. COL.(ILL), 65- Mem. exec. bd, New York Cmt. Sane Nuclear Policy, 62-65; nat. exec. bd, Turn Toward Peace, 62-65 & To Promote Enduring Peace, 62- Modern political thought; political thought and practices of American trade unionism. Publ: American labor unions and politics, 1900-1918; The civil rights revolution and the white community, summer 64 & Harold J. Laski and the Soviet Union, spring 65, New Polit. Address: Dept. of Political Science, North Central College, Naperville, Ill. 60540.

KARSON, PROF. SAMUEL, b. Baltimore, Md. Jan. 3, 24; m. 46; c. 2. CLINICAL PSYCHOLOGY. Ph.D.(psychol), Washington (St. Louis), 52. Clin. psychol. trainee, Vet. Admin. Hosp, St. Louis, Mo, 48-52; clin. psychologist, psychiat. unit, U.S. Naval Training Center, Calif, 52-55; asst. prof. psychol, New Hampshire, 57-58; chief psychologist & dir. res, Dade County Child Guid. Clin, 58-62; chief clin. psychologist, off. aviation med, Fed. Aviation Agency, 62-66; PROF. PSYCHOL. & HEAD DEPT, EASTERN MICHIGAN, 66- Res. asst. prof. Miami (Fla), 59-62, clin. asst. prof, 62- Consult, dept. transportation, Fed. Aviation Admin, 66- U.S.A.F, 55-57, Res, 57-, Capt. Psychol. Asn; fel. Soc. Proj. Tech; Aerospace Med. Asn; Orthopsychiat. Asn. Aviation psychology: anxiety in air traffic control specialists; factor

analytic measurement of childhood and adult personality; personality trait similarities between parents and children and husbands and wives; group play therapy and psychotherapy. Publ: Co-auth, Objective evaluation of dynamically oriented groups psychotherapy; Int. J. Group Psychother; auth, Second order personality factors in air traffic control specialists, Aerospace Med, 4/67; Second order personality factors in parents of child guidance clinic patients, Multivariate Behav. Res, 1/68. Address: 1730 Roosevelt Blvd, Ypsilanti, Mich. 48197.

KARSTEN, KARL G(USTAF), Statist, Econ, see 10th ed, Soc. & Behav. Vols, deceased 68.

KASCHUBE, DR. DOROTHEA V(EDRAL), b. Chicago, Ill, Nov. 6, 27; m. 50; c. 2. ANTHROPOLOGY, LINGUISTICS. A.B, Indiana, 51, M.A, 53, grant, 54, Ph.D.(anthrop), 60. Instr. ANTHROP, COLORADO, 55-62, asst. prof, 62-66, ASSOC. PROF, 67- Res. assoc, Stanford, 66 & 68. Ed, Southwest. Lore Quart, 55-60. Fel. Anthrop. Asn; Ling. Soc. Anthropological linguistics; culture theory. Publ: Some examples of tone in crow, Int. J. Am. Ling; Structural elements of the language of Crow Indians, In: Univ. Colorado series in anthropology, No. 14. Address: Dept. of Anthropology, University of Colorado, Boulder, Colo. 80302.

KASE, DR. FRANCIS J(OSEPH), b. Most, Bohemia, Sept. 21, 10; nat. POLITICAL SCIENCE, LIBRARY SCIENCE. Dr.jur, Charles Univ, Prague, 34; dipl. polit. sci, Acad. Polit. Sci. Prague, 34; Ph.D.(polit. sci), George Washington, 63. Counsr. & div. chief, Ministry For. Trade, Czech, 45-48; treas. & res. analyst, Int. Peasant Union, Wash, D.C, 50-53; asst. polit. sci, George Washington, 55-56; librn. & legal staff mem, copyright off, Library Cong, 56-66; LIBRN, PATENT OFF. SCI. LIBRARY, U.S. DEPT. COMMERCE, 66- Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Library Asn. Political theory; comparative government; area studies: Eastern Europe, U.S.S.R, Africa; international politics and organization; copyright law; law of intellectual property. Publ: Soviet theory of people's democracy, 63; Copyright thought in continental Europe, Rothman, 67; People's democracy; a contribution to the study of the communist theory of state and revolution, Sijthoff, 68. Address: 5206 Little Falls Dr, Green Acres, Md. 20016.

KASH, DR. DON E, b. Macedonia, Iowa, May 29, 34; m. 58; c. 2. POLITICAL SCIENCE. B.A, Iowa, 59, M.A, 60, Ph.D.(polit. sci), 65. Instr. POLIT. SCI, Tex. Tech. Col, 60-61; asst. prof, Arizona State, 63-65; Missouri, 65-66; ASSOC. PROF, PURDUE, 66- Consult, Coun. Econ. Growth, 67-; mem. bd. cmt. environ. pollution, Argonne Univs. Asn, 67- U.S.A, 54-56. AAAS; Polit. Sci. Asn. Science and public policy. Publ: U.S. policy for Quemoy and Matsu, West. Polit. Quart, 65; The tyranny of realism, Bull. Atomic Scientists, 67; The politics of space cooperation, Purdue Studies, 67. Address: Dept. of Political Science, Purdue University, Lafayette, Ind. 47907.

KASKEY, DR. GILBERT, Statist, see 11th ed, Phys. & Biol. Vols.

KASL, DR. STANISLAV VOJTECH, b. Prague, Czech, Dec. 4, 34; U.S. citizen. PSYCHOLOGY. B.A, Yale, 57; Ph.D.(psychol), Michigan, 62. Res. asst. psychol, inst. human rels, Yale, 55-57; asst. study dir. soc. psychol, inst. soc. res, UNIV. MICHIGAN, 58-62, study dir, 62-65, asst. prog. dir, 65-68, ASST. PROF. PSYCHOL, UNIV, 63- Assoc. prof. med. soc. psychol, depts. prev. med. & psychiat, col. med, Illinois, Chicago, 68- Psychol. Asn; Soc. Psychol. Study Soc. Issues; Psychosom. Soc. Medical social psychology, especially work environment. Publ: Co-auth, Health behavior, illness behavior, and sick role behavior, Arch. Environ. Health, 66; Effects of parental status incongruence and discrepancy on physical and mental health of adult offspring, J. Personality & Soc. Psychol. Monogr, 10/67 & Serum urate concentrations in male high school students: a predictor of college attendance, J. Am. Med. Asn, 67. Address: Institute for Social Research, University of Michigan, Ann Arbor, Mich. 48104.

KASLAS, DR. BRONIS J, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KASLING, PROF. ROBERT W(ILLIAM), Geog, see 10th ed, Soc. & Behav. Vols, deceased 66.

KASMAN, DR. SAUL, b. Warsaw, Poland, July 31, 05; nat; m. 38; c. 1. PSYCHOLOGY. B.S, Lewis Inst, 29; M.A, Northwestern, 39, Ph.D.(ed), 42. Personnel counsr, Vet. Admin, 46-50; clin. psychologist & consult, Civic Med. Center, 50-59; counseling psychologist, Vet. Admin. Regional Off, Ill, 59-61, STAFF PSYCHOLOGIST, VET. ADMIN. HOSP, DOWNEY, 61-; DIR. INST. INDUST. PSYCHOL, DEPAUL, 50- Coordinator, State Pub. Aid Cmn, 50-59. U.S.N, 43-45. Psychol. Asn. Staff development; counseling; teaching. Publ: Selected readings for the public assistance worker; Human nature for investigators, J. Criminal Law, Criminol. & Police Sci. Address: 133 Pierce Rd, Highland Park, Ill. 60035.

KASPAR, DR. JOSEPH C, b. Chicago, Ill, Sept. 12, 32; m. 58; c. 2. CLINICAL PSYCHOLOGY. B.S, Illinois, 53; A.M, De Paul, 55; Ph.D.(psychol), Chicago, 61. Res. asst. psychol, U.S. Naval Sch. Aviation Med, 55-56; clin. psychol. trainee, Vet. Admin. Hosps, 59-60; staff psychologist, CHILDREN'S MEM. HOSP, 60-63, CHIEF PSYCHOLOGIST, 63- Nat. Inst. Ment. Health res. grant, 67-69. U.S.N, 54-56. Psychol. Asn. The effect of brain injury in children; personality development in children; psychotherapy. Publ: Co-auth, The therapeutic dialogue, 64 & Brain damage and behavior, 65, C.C. Thomas; auth, The explication and solution of a specific error in copying diamonds, J. Exp. Child Psychol, 65. Address: Children's Memorial Hospital, 707 W. Fullerton Ave, Chicago, Ill. 60614.

KASPER, DR. HIRSCHEL, b. Providence, R.I, Jan. 8, 35; m. 57; c. 4. ECONOMICS. B.A, Boston, 56; M.A, Minnesota, 59, Ford Found. fel, 60-61, Ph.D.(econ), 63. Instr. ECON, Minnesota, 59-62; Iowa State, 62-63; asst. prof, OBERLIN COL, 63-67, ASSOC. PROF, 67- Res. analyst, Minn. Dept. Employ. Security, summer, 59 & 61-62; summer vis. asst. prof, Michigan, 64; Brookings res. prof, 66-67. Econ. Asn; Indust. Rels. Res. Asn. Labor market behavior and wages. Publ: Assets and the supply of labor: a note, South. Econ. J, 10-66; The asking price of labor and the duration of unemployment, Rev. Econ. & Statist, 5/67; Welfare payments and work incentive: some determinants of the rates of general assistance payments, J. Human Resources, winter 68. Address: Dept. of Economics, Oberlin College, Oberlin, Ohio 44074.

KASPER-PANDI, DR. PHYLLIS, Physiol. Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KASPERSON, DR. ROGER E, b. Worcester, Mass, Mar. 29, 38; m. 59. GEOGRAPHY. A.B, Clark, 59; Woodrow Wilson fel. & M.A, Chicago, 61, Salisbury fel. & Ph.D.(polit. geog), 66. Instr. earth sci, Bridgewater State Col, 62-63; instr. GEOG, Connecticut, 64-66; ASST. PROF, MICH. STATE, 66- Inst. Water Resources res. grant, Connecticut & Asn. Am. Geogr. res. grant, 65-66. Spec. consult, High Sch. Geog. Proj, 66-67. Asn. Am. Geog; Am. Geog. Soc; Regional Sci. Asn; Polit. Sci. Asn. Political geography, spatial patterns of political conflict, urban political geography and spatial political behavior; natural resource management; educational geography; geography of Greece. Publ: Toward a geography of urban politics: Chicago, a case study, Econ. Geog, 4/65; The Dodecanese: diversity and unity in island politics, Paper 108, Dept. Geog. Res, Univ. Chicago, 66; Geography in an urban age; political processes, High Sch. Geog. Proj, Colo, 66. Address: Dept. of Geography, Michigan State University, East Lansing, Mich. 48823.

KASS, DR. NORMAN, b. Cleveland, Ohio, July 26, 34. CHILD PSYCHOLOGY. B.A, Western Reserve, 56, M.A, 57, fels, 58-60, Ph.D.(child psychol), 60. Instr. child psychol, Western Reserve, 57; clinician, Willoughby Bd. Ed, East Lake, 57-58; therapist, remedial reading center, Western Reserve, 57-59; instr. child develop, inst. child develop, Minnesota, 60-61; asst. prof. PSYCHOL, SAN DIEGO STATE COL, 61-66, ASSOC. PROF, 66- Lectr, Minnesota, 60; Nat. Inst. Ment. Health fel, 60-61, prin. investr. grant, 62-64. Soc. Res. Child Develop; Psychol. Asn. Establishment of secondary reinforcement with children; effect of schedules of reinforcement on learning. Publ: Resistance to extinction as a function of age and schedules of reinforcement, 62 & co-auth, Resistance to extinction as a function of percentage of reinforcement, number of training trials, and conditioned reinforcement, 66, J. Exp. Psychol; auth, Risk in decision making as a function of age, sex, and probability preference, Child Develop, 64. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

KASSALOW, EVERETT, b. New York, N.Y, Jan. 10, 18; m. 40; c. 4. ECONOMICS. B.S.S, City Col. New York, 38; M.A, American Univ, 64. Archivist, U.S. Nat. Arch, 41-42; economist, U.S. Bur. Labor Statist, 42-45; res. assoc, Cong. Indust. Orgn, 45-46, assoc. dir. res, 48-50, exec. secy, cmt. full employ, 53-55; dir, United Rubber Workers Am, 46-48; spec. labor asst. to chmn, Nat. Security Resources Bd, 50-53; labor adv, Int. Coop. Admin, France, 55-57; mem, spec. projs. dept, United Automobile Workers, Am. Fedn. Labor-Cong. Indust. Orgn, 57, dir. res, indust. union dept, 57-64; PROF. ECON, WISCONSIN, MADISON, 64- Dir, spec. res. seminar comp. labor movements, Wash, D.C; lectr, World Bank, 65-66; Int. Manpower Serv, U.S. Dept. Labor, 65- Mem. adv. cmt, Nat. Sci. Found; UN Indust. Develop. Orgn, 66. Indust. Rel. Res. Asn. History; international labor field, including labor in economic development; comparative trade union analysis. Publ: Ed, National labor movement in the post war world, Northwestern, 63; auth, White collar trade unions, Illinois State Univ, 66; co-ed, International labor, Harper, 68. Address: Dept. of Economics, University of Wisconsin, Madison, Wis. 53706.

KASSARJIAN, DR. HAROLD HAIG, b. Far Rockaway, N.Y, Aug. 21, 30; m. 57; c. 3. PSYCHOLOGY. B.A, California, Los Angeles, 52, M.A, 58, Vet. Admin. fel, 58-60, Ph.D.(psychol), 60. INSTR. PSYCHOL, EXTEN, CALIFORNIA, LOS ANGELES, 58-, ASSOC. PROF. BUS. ADMIN, UNIV, 61- Vis. assoc. prof, Illinois, Urbana, 67-68. Res. psychologist, Facts Consol. & C-E-I-R Inc, Calif, 60-61. U.S.A, 53-55. Psychol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Attitude and opinion research; human communication; mass behavior; propaganda; personality and culture; group dynamics. Publ: Co-auth, Perspectives in consumer behavior, Scott, 68 & Cognitive dissonance and consumer behavior: reactions to the Surgeon General's report on smoking and health, Calif. Mgt. Rev, fall 65; auth, Social character and mass communication, J. Mkt. Res, 67. Address: 8968 Gothic Ave, Sepulveda, Calif. 91343.

KASSARJIAN, DR. W(ALTRAUD) M(ARGGRAFF), b. Berlin, Germany, Sept. 21, 28; m. 57; c. 3. SOCIAL PSYCHOLOGY. B.A, Minnesota, 52, M.A, 54; Ph.D, California, Los Angeles, 60. Psychologist, Fergus Falls State Hosp, Minn, 54-55; asst. counseling psychol, student counseling bur. & res. counsr, dean students off, Minnesota, 52-54; asst. psychol, California, Los Angeles, 56-60; CONSULT. SOC. & INDUST. PSYCHOL, 62- Asst. prof, San Fernando Valley State Col, 64-67. AAAS; Psychol. Asn. Cultural psychology; human communication; psycholinguistics; personality. Publ: Study of Riesman's theory of social character, Sociometry; co-auth, Factor analysis of items on the MMPI schizophrenia scale, Ed. & Psychol. Measurement; co-auth, Occupational preference, social values and social character, J. Counseling Psychol, 65. Address: 8968 Gothic Ave, Sepulveda, Calif. 91343.

KASSEBAUM, DR. GENE G, b. St. Louis, Mo, June 24, 29; m. 60. SOCIOLOGY. A.B, Missouri, 51; A.M, Harvard, 56, Ph.D, 58. Res. assoc, med. col, Cornell, 57-60; dir, study correctional effectiveness, sch. pub. health, California, Los Angeles, 60-65; assoc. prof. SOCIOL. & chmn. dept, American Univ. Cairo, 65-68; PROF, HAWAII, 68- U.S.A, 51-53. Fel. Sociol. Asn; Soc. Study Social Probs. Deviance and social control; medical sociology; the peasant village in the Middle East and India. Publ: Co-auth, Women's Prison, Aldine, 65, Narcotics, Blakeston-McGraw, 65 & Prison treatment and its outcome, Wiley, (in press). Address: Dept. of Sociology, University of Hawaii, Honolulu, Hawaii 96822.

KASSOF, DR. ALLEN HOWARD, b. New York, N.Y, Dec. 17, 30; m. 53; c. 3. SOCIOLOGY. B.A, Rutgers, 52; A.M, Harvard, 54, Ph.D.(sociol), 60. Instr. & asst. prof. sociol, Smith Col, 57-61; fel. soviet studies, Russian Res. Center, Harvard, 60-61; asst. prof. sociol, PRINCETON, 61-65, ASSOC. PROF. SOCIOL. & ASST. DEAN COL, 65- William Patterson bicentennial preceptorship, Princeton Univ, vis. for. scholar, Swiss-East. Inst, Berne, Switz, 63-64. Mem. nat. adv. cmt, Inter-Univ. Cmt. Travel Grants, 66-; joint cmt.

Slavic studies, Am. Coun. Learned Socs-Soc. Sci. Res. Coun, 67- Sociol. Asn. Comparative social systems, especially contemporary soviet society. Publ: The soviet youth program: regimentation and rebellion, Harvard Univ, 65; ed, Prospects for soviet society, Praeger, 68. Address: 406 West College, Princeton University, Princeton, N.J. 08540.

KASSOUF, DR. SHEEN THOMAS, b. New York, N.Y, Aug. 11, 28; m. 57; c. 2. ECONOMICS. B.S, Columbia, 58, Ph.D.(econ), 65. Tech. illustrator, McGraw-Hill Pub. Co, 47-57; pres, Tech. Illustrators, Inc, 57-61; investment counsr, Anal. Investors, Inc, 61-65; ASST. PROF. ECON, CALIFORNIA, IRVINE, 65- Sig.C, U.S.A, 50-52. Economet. Soc; Econ. Asn; Finance Asn. Economics of speculative markets, including security prices, foreign exchange and commodity markets analyzed with econometric and mathematical models. Publ: Evaluation of convertible securities, 62 & A theory and an econometric model for stock warrants, 65, Anal. Pub. Co; co-auth, Beat the market, Random, 67. Address: Dept. of Economics, University of California, Irvine, Calif. 92664.

KAST, DR. MATTHEW, Econ, see 10th ed, Soc. & Behav. Vols, deceased.

KASTEN, DR. DUANE FRANK, b. Milwaukee, Wis, Oct. 6, 32; m. 55; c. 1. PSYCHOLOGY. B.S, Wisconsin, 55; M.S, Purdue, 57, Ph.D.(indust. psychol), 60. RES. PSYCHOLOGIST, AERO-SPACE MED. RES. LABS, U.S. AIR FORCE, 59- Psychol. Asn; Human Factors Soc. Human performance in unusual air force environments; perceptual-motor performance measurement; weightlessness; human contributions to air force systems effectiveness. Publ: Study of human performance in short orbital transfer, 62 & Interdisciplinary measurement of human performance under low and zero gravity conditions, 64, Aero-Space Med. Res. Labs; co-auth, A study of factors influencing the legibility of televised characters, J. Soc. Motion Picture & TV Engrs, 59. Address: 2577 Big Woods Trail, Fairborn, Ohio 45324.

KASTENBAUM, PROF. ROBERT JAY, b. New York, N.Y, Aug. 8, 32; m. 58. PSYCHOLOGY. A.B, Long Beach State Col, 54; Ph.D, Southern California, 59. Trainee clin. psychol, Vet. Admin, Calif, 55-59; U.S Pub. Health Serv. res. fel, Clark, 59-61; prin. psychologist, Cushing Hosp, Mass, 61-68; PROF. PSYCHOL, WAYNE STATE, 68- Lectr, Clark, 59-68; res. assoc, Youth Study Center, Southern California, 59. Co-prin. investr, U.S. Pub. Health Serv. res. proj, 61-64, prin. investr, 64-69. Consult, Worcester State Hosp, 60-61. Psychol. Asn; Gerontol. Soc. Developmental psychology of time, death, and values, particularly in adolescence and later life. Publ: New thoughts on old age, 64 & Contributions to psychobiology of aging, 65, Springer; co-auth, The psychological autopsy: a study of the terminal phase of life, Monogr. of Community Ment. Health J, 67. Address: Dept. of Psychology, Wayne State University, Detroit, Mich. 48202.

KASTLER, PROF. NORMAN M(ANTONYA), b. Racine, Wis, Feb. 28, 04; m. 47. SOCIOLOGY. A.B, Wisconsin, 27, A.M, 28. Instr. ECON. & SOCIOL, UNIV. EXTEN, WISCONSIN, 34-43, asst. prof, 43-49, assoc. prof, 49-61, PROF, 61- Sociol. Asn; Acad. Polit. & Soc. Sci; Fedn. Am. Sci. Publ: Modern human relations; co-auth, Social problems. Address: University Extension, University of Wisconsin, Madison, Wis. 53706.

KASUN, DR. JACQUELINE RORABECK, b. Los Angeles, Calif, May 17, 24; m. 50; c. 3. ECONOMICS. A.B, California, 45; M.S, Columbia, 47, Ph.D, 56. Economist, Standard Oil Co.(N.J), 48-49; instr. econ, Pomona Col, 49-50; Maryland, overseas, 58-60; asst. prof, Park Col, 61-63; econ. & statist, Arizona, 63-65; ECON, CALIFORNIA STATE COL. FULLERTON, 65-67, ASSOC. PROF, 67- W.A.C, U.S.A, 45-46. Econ. Asn; Asn. Comp. Econ. Business cycles; international economics. Publ: Some social aspects of business cycles in the Los Angeles area, 1920-1950. Address: Dept. of Economics, California State College, 800 N. State College Blvd, Fullerton, Calif. 92631.

KASWAN, DR. JAQUES W(ALDEMAR) b. Vienna, Austria, June 14, 24; nat; m. 49; c. 3. PSYCHOLOGY. B.A, California, Los Angeles, 51; M.A, New Sch. Soc. Res, 54; Ph.D.(clin. psychol), Washington (St. Louis), 55. Trainee psychol, Vet. Admin, 53-55; from instr. to asst. prof, Yale, 55-58; California, Los Angeles, 58-64, assoc. res. psychologist, 64-67; ASSOC. PROF. PSYCHOL, OHIO STATE, 68- U.S.A, 43-45. Psychol. Asn. Community psychology, interpersonal communication and adaptation, visual perception. Publ: Stimulus determinants of choice behavior in visual pattern discrimination, 65 and Effect of stimulus variables on choice reaction time and threshold, 65, J. Exp. Psychol; Variables in perceptual and cognitive organization and differentiation, J. Personality, 65. Address: Dept. of Psychology, Ohio State University, Columbus, Ohio 43210.

KATAHN, DR. MARTIN, b. Utica, N.Y, Sept. 25, 28; m. 52; c. 2. PSYCHOLOGY. Mus.B, Hartford, 58; M.A, Syracuse, 60, Ph.D.(psychol), 62. Instr. strings & chamber music, Hartt Col. Music, Univ. Hartford, 51-55; res. psychologist, Marcy State Hosp, 60-61; asst. prof. PSYCHOL, VANDERBILT, 62-66, ASSOC. PROF, 66- Res. assoc, Off. Naval Res. res. grant, 62-64; prin. investr, Nat. Inst. Ment. Health res. grants, 64-68, co-prin. investr, Voc. Rehab. Agency res. grant, 65-67. Psychol. Asn. Effects of anxiety in learning; relationship of affective and cognitive processes; reduction of anxiety via behavior therapy. Publ: Interaction of anxiety and ability in complex learning situations, J. Personality & Soc. Psychol, 66; co-auth, Group counseling and behavior therapy with text anxious college students, J. Consult. Psychol, 66; Anxiety and the learning of responses varying in initial rank in the response hierarchy, J. Personality, 66. Address: Dept. of Psychology, Vanderbilt University, Nashville, Tenn. 37203.

KATAOKA, DR. TETSUYA, b. Utsunomiya City, Japan, Apr. 1, 33. POLITICAL SCIENCE. B.A, Waseda Univ, Japan, 55; State Univ. N.Y. Binghamton, 55-57; M.A, Chicago, 60, Ph.D.(polit. sci), 67. Instr. POLIT. SCI, Vassar Col, 65-67; ASST. PROF, STATE UNIV. N.Y. BUFFALO, 67- Soc. Sci. Res. Coun. res. grant, 68. Polit. Sci. Asn; Asn. Asian Studies. Chinese Communism. Publ: Political theory of the great leap forward, Soc. Res, (in press). Address: Dept. of Political Science, State University of New York at Buffalo, Amherst, N.Y. 14226.

KATCHER, DR. A(LLAN), b. U.S, Nov. 17, 26; m. 47; c. 2. PSYCHOLOGY. B.S, Michigan, 47; fel, City Col, 46-47, M.A, 49; Ph.D.(pscyhol), California, 51. Asst. & lectr, California, 49-51; asst. prof. psychol, Washington (Seattle), 51-56; res. psychologist, Rand Corp. 56-58, head mgt. develop. prog, Syst. Develop. Corp, 58-62; exec. adv. sr. mgt. develop, missile & space systs. div, Douglas Aircraft Corp, 62-64; pres, Allan Katcher Assoc, 64-65; PARTNER, ATKINS-KATCHER ASSOC, 65- Mem, Nat. Training Labs. Consult, Smithsonian Inst, 55-56. Psychol. Asn; Soc. Psychol. Study Soc. Issues; Soc. Adv. Mgt. Small group behavior; self-concepts; development of children's conceptions. Publ: Indoctrinating and motivating new employees, Inst. Indust. Rels, Univ. Chicago, 63; Various papers on problem-solving and debriefing techniques, Syst. Develop. Corp. Papers, 56, 62; co-auth, The micro-lab mass cluster technique, Human Rels. Notes & Rev, 8/67. Address: Atkins-Katcher Associates, 8201 Beverly Blvd, Los Angeles, Calif. 90048.

KATES, PROF. SOLIS L(EIGHTER), b. New York, N.Y, Jan. 6, 15; m. 37; c. 2. B.S, City Col. New York, 35, M.S, 37; Ph.D.(psychol), Columbia, 48. Psychologist & rehab. counsr, State Dept. Ed, N.Y, 42-46; clin. psychologist, Vet. Admin. ment. hyg. clin, Brooklyn, N.Y, 47-48; asst. prof. PSYCHOL, Mich. State, 48-51; assoc. prof, Oklahoma, 51-55; PROF, MASSACHUSETTS, 55- Dept. Health, Ed. & Welfare res. grants; vis. scholar, center cognitive studies, Harvard, 61-62. Consult, Clarke Sch. for Deaf, 58-; Vet. Admin. Dipl, Am. Bd. Exam. Prfnl. Psychol. Thinking and language processes in children, adolescents, deaf and clinical groups. Publ: Cognitive processes in deaf and hearing adolescents and adults, Psychol. Monogr; Cognitive structures in deaf, hearing and psychotic individuals, Clarke Sch. Monogr; Concept attainment and adolescent, J. Ed. Psychol. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01003.

KATKIN, DR. EDWARD S(AMUEL), b. New York, N.Y, Aug. 15, 37; m. 63; c. 2. PSYCHOLOGY. B.A, City Col. New York, 58; Ph.D.(psychol), Duke, 63. Asst. prof. PSYCHOL, STATE UNIV. N.Y. BUFFALO, 63-66, ASSOC PROF, 66- Prin. investr, U.S. Pub. Health Serv. res. grant, 66- Psychol. Asn; Psychonomic Soc; Soc. Psychophysiol. Res. Psychophysiology; experimental psychopathology. Address: Dept. of Psychology, College of Arts & Sciences, State University of New York at Buffalo, Buffalo, N.Y. 14214.

KATKOFF, PROF. V(LADIMIR), b. Russia, July 15, 01; nat. ECONOMICS. B.S, California, 38, M.S, 40; Ph.D.(agr. econ), Ohio State, 50. Economist, Off. Price Admin, 44-46; researcher, Ohio State, 50-51; economist, Nat. Prod. Authority, 51-52; statistician-demographer, U.S. Bur. Census, D.C, 52-56; assoc. prof. ECON, Baltimore, 57-65, chmn. dept. 58-65; prof. & chmn. dept, W.Va. Wesleyan Col, 65-67; PROF. LECTR, HOWARD, 67- Lectr, American Univ, 54-57. Publ: Soviet economy 1940-1965; co-auth, Principles of economics and World economic geography. Address: 4600 Connecticut Ave. N.W, Washington, D.C. 20008.

KATKOVSKY, DR. WALTER, b. Baltimore, Md, Sept. 21, 27. PSYCHOLOGY. B.A, Maryland, 51; M.A, Ohio State, 53, Ph.D.(clin. psychol), 56. Asst. instr, Ohio State, 55-56; asst. prof, Pa. State, 56-58; res. assoc. PSYCHOL, Fels Res. Inst, Antioch Col, 58-61; asst. prof, FORDHAM, 61-63, ASSOC. PROF, 63- Consult, Am. Tel. & Tel. Co, 56- U.S.A.A.F, 45-47. Psychol. Asn. Development of achievement motivation; personality theory; psychotherapy. Address: Dept. of Psychology, Fordham University, Bronx, N.Y. 10458.

KATONA, PROF. GEORGE, b. Budapest, Hungary, Nov. 6, 01; nat; m. 29. PSYCHOLOGY, ECONOMICS. Ph.D.(psychol), Göttingen, 21. Carnegie Corp. grant-in-aid, 38; lectr, New Sch. Soc. Res, 38-42; res. assoc, Cowles Cmn. Res. Econ, Chicago, 42-44; sr. study dir, bur. agr. eng, U.S. Dept. Agr, 44-46; PROG. DIR, SURV. RES. CENTER, MICHIGAN, 46-, PROF. PSYCHOL. & ECON, 49-, assoc. prof, 47-49. Guggenheim fel, 40-42. Psychol. Asn; Econ. Asn; Statist. Asn. Psychological economics. Publ: Psychological analysis of economic behavior, 51, The powerful consumer, 60 & Mass consumption society, 64, McGraw. Address: Survey Research Center, University of Michigan, Ann Arbor, Mich. 48106.

KATTI, DR. SHRINIWAS KESHAV, b. Bijapur, India, June 20, 36; m. 60; c. 1. STATISTICS, MATHEMATICS. B.Sc, Ramjas Col, India, 56; M.Sc, Iowa State, 58, Ph.D, 60. Asst. STATIST, Iowa State, 56-60; asst. prof, FLA. STATE, 60-63, ASSOC. PROF, 63- U.S. Dept. Agr. res. grant, 67-69. Consult, Underwriters Nat. Assurance Co, 61-; Scot Res. Labs, Pa, 67- Biomet. Soc; Statist. Asn; Inst. Math. Statist; Inst. Biol. Sci. Biological statistics; contagious distribution; multivariate analysis and design of experiments. Publ: Multiple covariate analysis, 12/65 and Interrelations among generalized distributions and their components, 3/66, Biometrics; Infinite divisibility of discrete distributions, Ann. Math. Statist. 8/67. Address: Dept. of Statistics, Florida State University, Tallahassee, Fla. 32306.

KATZ, DR. ALFRED, b. Yaroslaw, Poland, Apr. 15, 38; U.S. citizen, m. 66. POLITICAL SCIENCE, HISTORY. B.A, Yeshiva, 60; M.A, Columbia, 62; Ph.D.(govt, int. rels), N.Y. Univ, 66. ASST. PROF. soc. sci, N.Y. Inst. Tech, 65-67; POLIT. SCI, BRADLEY, 67- Polit. Sci. Asn. Soviet-East Central European studies, especially political and economic situations. Address: 4213 Knollridge Rd, Peoria, Ill. 61614.

KATZ, DR. ALFRED H(YMAN), b. Auckland, N.Z, Apr. 3, 16; nat; m. 44; c. 1. SOCIOLOGY OF MEDICINE. A.B, New Zealand, 35, M.A, 36; M.S.W, Columbia, 44, D.S.W, 57. Lectr, N.Y. Sch. Soc. Work, Columbia, 51-54; res. consult, Asn. Aid of Crippled Children, 54-56; exec. dir, Nat. Hemophilia Found, 56-58; assoc. prof. prev. med, sch. med, CALIFORNIA, LOS ANGELES, 58-63, PROF, PUB. HEALTH & SOC. WELFARE, 63- Nat. Inst. Ment. Health spec. res. fel, 63. Consult, State Dept. Ment. Hyg, 60- Sociol. Asn; Pub. Health Asn; Asn. Ment. Deficiency. Psychosocial aspects of disease and chronic handicapping conditions; effects on relatives and family members of chronic disease in children. Publ: Parents of the handicapped; Public health reader; co-auth, Health and the community, Macmillan, 65. Address: Dept. of Public Health & Social Welfare, University of California, Los Angeles, Calif. 90024.

KATZ, DR. ARNOLD, b. United States. ECONOMICS. A.B, Hamilton Col, 52; M.A, Yale, 53, Ph.D, 61. Surv. statistician, U.S. Census Bur, 58-59; econ. analyst, U.S. Dept. Labor, 59-60; economist, Bd. Governors, Fed. Reserve Syst, 60-62; asst. prof. ECON, Columbia, 62-64; ASSOC. PROF, PITTSBURGH, 64- U.S.N, 55-58, Res, 58-, Lt. Econ. Asn; Economet. Soc; Statist. Asn. Quantitative methods; household economic behavior. Address: Dept. of Economics, University of Pittsburgh, 211 S. Dithridge St, Pittsburgh, Pa. 15213.

KATZ, DR. BARNEY, Psychol, see 10th ed, Soc. & Behav. Vols.

KATZ, PROF. B(ENJAMIN) J(OSEPH), b. Brooklyn, N.Y, July 13, 23; m. 57; c. 3. ECONOMICS. A.B, Brooklyn Col, 46; A.M, Harvard, 49, Ph.D, 54. Asst. prof. ECON, New Hampshire, 49-54, assoc. prof, 54-57; N.Y. UNIV, 57-65, PROF, 65- Consult, Joint Coun. Econ. Ed, 59. Econ. Asn. Public state and local finance; fiscal policy. Publ: Contrib. to, New Grolier Encyclop; auth, Case for broad-based taxes. Address: Dept. of Economics, New York University, University College, New York, N.Y. 10453.

KATZ, PROF. DANIEL, b. Trenton, N.J, July 19, 03; m. 30; c. 2. PSYCHOLOGY. B.A, Buffalo, 25; M.A, Syracuse, 26, Ph.D.(soc. psychol), 28. Instr. PSYCHOL, Princeton, 28-31, asst. prof, 31-40, assoc. prof, 40-43; chmn. dept, Brooklyn Col, 43-47; PROF, MICHIGAN, 47-, prog. dir. surv. res. center, 47-49. Fulbright fel, Norway, 51-52; fel, Center Adv. Study Behav. Sci, 60-61; Nat. Sci. Found. sr. fel, 67-68. Res. dir. surv. div, Off. War Info, N.Y, 43-44. Ed, J. Personality & Soc. Psychol, 65-67. Fel. Psychol. Asn.(ed, J. Abnorm. & Soc. Psychol); Asn. Pub. Opinion Res. Attitude measurement; industrial morale and productivity; human relations. Publ: Co-auth, Social psychology, 38 & Social psychology of organizations, 66, Wiley; co-ed, Research methods in the behavioral sciences, Holt, 59. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

KATZ, DR. ELIAS, b. New York, N.Y, Sept. 22, 12; m. 37; c. 1. CLINICAL PSYCHOLOGY. B.A, City Col. New York, 32, M.S, 33; Ph.D, Columbia, 42. Psychologist, ment. hyg. serv, N.Y. regional off, Vet. Admin, 46-48; chief clin. psychologist, U.S. Naval Disciplinary Barracks, San Pedro, Calif, 48-50; head psychol. dept, Sonoma State Hosp, Eldridge, Calif, 51-53; PSYCHOLOGIST, CEREBRAL PALSY PROG, SCH. MED, CALIFORNIA, 53-; CONSULT, SAN FRANCISCO AID RETARDED CHILDREN, 66-, dir. work-training center, 57-61, independent living rehab. prog, 61-66. Instr, City Col. New York, 47-48; exten. div, California, 49-51; San Francisco State Col, 51-52; Col. of Marin, 52-58; lectr, California, Berkeley, 59- Consult, ment. retardation facilities, U.S. Pub. Health Serv, 65-; State Dept. Rehab, Calif, 67. U.S.A, 43-46. Fel. Psychol. Asn; Soc. Res. Child Develop; Asn. Ment. Deficiency. Rehabilitation and counseling of mentally retarded; evaluation of physically and mentally handicapped; community programming in mental retardation. Publ: The retarded adult in the community, C.C. Thomas, 68; Children's preferences for traditional and modern paintings; Survey of degree of handicap. Address: 3 Los Altos Dr, San Rafael, Calif. 94901.

KATZ, DR. ELIHU, b. Brooklyn, N.Y, May 31, 26; m. 51; c. 2. SOCIOLOGY. A.B, Columbia, 48, M.A, 50, Ph.D.(sociol), 56. Res. assoc, bur. appl. soc. res, Columbia, 51-54, lectr, sch. gen. studies, 52-54; asst. prof. SOCIOL, CHICAGO, 54-61, ASSOC. PROF, 61- Vis. lectr, Hebrew Univ, 56-58. Mem. adv. panel sociol, Nat. Sci. Found, 60- U.S.A, 44-46. Sociol. Asn; Asn. Pub. Opinion Res. Communication; social psychology. Publ: Co-auth, Personal influence; auth, Social itinerary of technical change, Human Orgn. Address: Dept. of Sociology, University of Chicago, Chicago, Ill. 60637.

KATZ, DR. EVELYN, Psychol, see 10th ed, Soc. & Behav. Vols.

KATZ, PROF. FLORINE KLINGENSTEIN, b. New York, N.Y, Oct. 19, 10; m. 33; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Hunter Col, 49; fel, City Col, New York, 50, M.A, 51; Ph.D, N.Y. Univ, 60. Asst. CLIN. & ED. PSYCHOL, CITY COL. NEW YORK, 50-52, lectr, 52-61, asst. prof, 51-66, ASSOC. PROF, 66- Consult, Bronx High Sch. of Sci, 51. Psychol. Asn; Soc. Proj. Tech; Int. Coun. Psychol. Teacher education; group consultation and therapy with teachers; learning theory and process, especially with underprivileged children and adolescents. Address: City College of New York, 135th St. & Convent Ave, New York, N.Y. 10028.

KATZ, DR. FRED E, b. Oberlauringen, Germany, Nov. 10, 27; U.S. citizen. SOCIOLOGY. Ph.D.(sociol), North Carolina, 61. Asst. prof. SOCIOL, Tex. Tech. Col, 60-62; Missouri, 62-65; ASSOC. PROF, STATE UNIV. N.Y. BUFFALO, 65- U.S.A, 53-55. Sociol. Asn. Sociological theory; complex social organizations; international studies. Publ: Autonomy and organization, Random, 68. Address: Dept. of Sociology, State University of New York, Buffalo, N.Y. 14214.

KATZ, DR. GEORGE GERSHON, b. New Rochelle, N.Y, Aug. 3, 27. PSYCHOLOGY. B.A, Brooklyn Col, 50; Ph.D, N.Y. Univ, 56. Intern dept. pediatrics, N.Y. Med. Col, Flower-Fifth Ave. Hosp, 52-53; res. assoc. neurol. & psychiat, N.Y. Univ. Med. Center, 54-55; staff psychologist, community counseling center, Brooklyn Col, 54-56; Vet. Admin. Hosp, Little Rock, Ark, 56-58, Downey, Ill, 58-62, supvy. psychologist, 62-64; Los Angeles, 64-65; CHIEF APPL. BEHAV. SCI. RES. UNIT, VET. ADMIN. CENTER, LOS ANGELES, 66- Lectr, Northwestern, 62-64; California, Los Angeles, 67. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Pub. Health Asn; fel. Orthopsychiat. Asn. Physiological correlates of behavior; sociocultural aspects of the mental hospital; milieu therapy; individual and group psychotherapy; action research; self-government in disadvantaged groups; indigenous non-professionals. Publ: Investigation of eidetic imagery in conditions of hypocalcemia, with and without latent tetany; Enhanced after-imagery in hypoparathyroidism. Address: Veterans Administration Center 183/D, Los Angeles, Calif. 90073.

KATZ, IRVING, b. New York, N.Y, Nov. 30, 18; m. 40; c. 4. STATISTICS. B.S, City Col. New York, 38, M.B.A, 51; George Washington; Omaha; Hopkins. Statistician, Dept. Welfare, New York City, N.Y, 38-42; War Prod. Bd, 42-43; Off. Housing Expediter, 46-48; mgt. analyst, hqs, Strategic Air Command, 48-52; statistician, res. & eng. command, U.S. Dept. Army Chem. Corps, 52-56; opers. analyst, HQS, U.S. DEPT. AIR FORCE LOGISTICS COMMAND, 56-62, CHIEF OPERS. ANAL. OFF, 62- Lectr, Japan Air Self Defense Force, 65, 67. Except. civilian serv. award, U.S. Air Force; joint commanders' award, Air Force Systs. & Logistics Commands, 67. U.S.A, 43-46, Capt; U.S.A.F.R, 56-, Col. AAAS; Statist. Asn; Opers. Res. Soc. Management; research and development; reliability; operations analysis. Publ: A path to peace, Air War Col. Thesis, 64; A new concept of planned inspections, 65 & co-auth, Maximizing protection from EOQ safety levels, 66, Air Force Report. Address: 252 Burgess Ave, Dayton, Ohio 45415.

KATZ, DR. IRVING S, b. New York, N.Y, Oct. 7, 29; m. 53; c. 2. CLINICAL PSYCHOLOGY. B.A, Mich. State, 50, Ph.D.(psychol), 56; M.S, Pa. State, 51. Dir. dept. psychol. serv, Clark County Sch. Dist, 55-60; asst. prof. PSYCHOL, NEVADA SOUTHERN, 60-63, ASSOC. PROF, 64-, CHMN. DEPT, 65- Mem. Nev. Adv. Cmt, U.S. Civil Rights Cmn, 65-; supv. psychol. consult, Vol. in Serv. to Am, U.S. Off. Econ. Opportunity, 66-67; mem, West. Coun. Ment. Health Training & Res. Psychol. Asn; Soc. Clin. Hypnosis. Address: Dept. of Psychology, Nevada Southern University, Las Vegas, Nev. 89109.

KATZ, DR. JACK, Audiol, see 11th ed, Phys. & Biol. Vols.

KATZ, J(EROME) B(ENJAMIN), b. New York, N.Y, Mar. 17, 25; m. 54; c. 2. ECONOMICS. M.A, California, Los Angeles, 49. Econ. statistician, Census Bur, 51; statistician, Am. Statist. Asn, 52; Bur. Mines, 52-53; New York Bd. Ed, 54-56, consult, div. housing, 54-56; anal. statistician, U.S. Dept. Army, 56; Univac programmer, Remington Rand Corp, 56-57; statistician, Census Bur, 58-62; Off. Manpower Policy Evaluation &Res, U.S. DEPT. LABOR, 63-66; CHIEF STATIST. STANDARDS & SYSTS. DIV, MANPOWER ADMIN, 67- Statist. Asn. Planning, development & implementation of management information system for manpower development; training; utilization; job matching; placement; cost-effectiveness analyses; simulation and model building. Publ: Contrib, Survey of statistical operations of the Bureau of Mines. Address: Division of Statistical Standards & Systems, Manpower Administration, U.S. Dept. of Labor, 1730 M St, Washington, D.C. 20210.

KATZ, DR. LEO, Math. Statist, see 11th ed, Phys. & Biol. Vols.

KATZ, DR. LEO, b. Germany, Nov. 4, 22; nat; m. 50; c. 1. PSYCHOLOGY. B.S, Columbia, 50, Ph.D, 55. Asst, teachers col, Columbia, 52-54; CLIN. PSYCHOLOGIST, VET. ADMIN, 55- Instr, City Col. New York. Mil. Intel, U.S.A, 43-45. Psychol. Asn. Learning in aphasics. Address: 46 Eddy Rd, Roosevelt, N.Y. 11575.

KATZ, DR. MARTIN M, b. New York, N.Y, Aug. 6, 27; m. 51; c. 2. PSYCHOLOGY. A.B, Brooklyn Col, 49; Ph.D.(psychol), Texas, 55. Clin. trainee, Vet. Admin, Texas, 52-55; clin. psychologist & asst. prof. psychol. & nutrit, res. center, Texas Women's Univ, 55-56; res. clin. psychologist, neuropsychiat. res. lab, Vet. Admin, Wash. D.C, 56-57; exec. secy, res. adv. cmt, psychopharmacol. serv. center, NAT. INST. MENT. HEALTH, 57-59, res. clin. psychologist, 59-64, CHIEF SPEC. STUDIES SECT, PSYCHOPHARMACOL. RES. BR, 64- Lectr, Nat. Insts. Health, 67-; assoc. prof. lectr, George Washington, 67-; vis. res. fel, Soc. Sci. Res. Inst. & East-West Center, Univ. Hawaii, 68. U.S.A, 46-47. Psychol. Asn; fel. Col. Neuropsychopharmacol; Psychopath. Asn. Personality theory and measurement; clinical methods; psychopharmacology. Publ: Co-auth, Methods for measuring adjustment and social behavior, Psychol. Reports Monog, 63; Role and methodology of classification in psychiatry and psychopathology, Govt. Printing Off, 68; Characterizing psychological state produced by LSD, J. Abnorm. Psychol, 68. Address: 3941 Rickover Rd, Silver Spring, Md. 20902.

KATZ, PROF. MELVYN M(YRON), b. New York, N.Y, Mar. 22, 24; m. 48; c. 3. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 43; M.A, N.Y. Univ, 48, Ph.D.(clin. psychol), 51. Instr. child psychol, Wagner Lutheran Col, 48-49; sch. ed, N.Y. Univ, 49-50; clin. psychologist, Vet. Admin. Neuropsychiat. Hosp, Northport, N.Y, 51-60; psychotherapist, Cent. Island Community Ment. Health Center, Uniondale, N.Y, 60-61; asst. prof. PSYCHOL, HOFSTRA, 61-67, ASSOC. PROF. & DIR, CENTER RES. AGING, 67- Clin. psychol. intern, Brooklyn Regional Off, Vet. Admin. Ment. Hyg. Clin, N.Y, 48-49; clin. psychol. trainee & intern, Vet. Admin. Neuropsychiat. Hosp, Northport, N.Y, 49-51; private clin. psychologist, 51-; dir. Bi-County Psychother. Center, N.Y, 62-65. U.S.A, 43-46, Capt. Psychol. Asn; Group Psychother. Asn; Soc. Clin. & Exp. Hypnosis; Acad. Psychother; Geront. Soc. Psychotherapy and psychopathology of adolescence and later maturity; communication theory. Publ: Psychodynamics of peptic ulcer pathogenesis in hospitalized schizophrenic patients, Psychosomat. Med; The ego integrative aspects of abortion-adoption conflict in unwanted pregnancy: an ontological approach, Proc: Med. Psychosom, Int. Cong. Psychosom. Med. Obstet. & Gynec, Vienna, Austria, 7/65; Study manual and guide: the fifteenth American, a film series on alcoholism rehabilitation, Voc. Rehab. Admin, Dept. Health, Ed. & Welfare, 9/67. Address: Dept. of Psychology, Hofstra University, Hempstead, N.Y. 11550.

KATZ, DR. MICHAEL B, Hist. of Ed, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KATZ, DR. PHYLLIS A(LBERTS), b. New York, N.Y, Apr. 9, 38; m. 61; c. 1. DEVELOPMENTAL PSYCHOLOGY. A.B, Syracuse, 57; Ph.D.(clin. psychol), Yale, 61. Sr. res. assoc. PSYCHOL, N.Y. Med. Col, 61-62; instr, Queens Col.(N.Y), 62-63; asst. prof, N.Y. UNIV, 63-67, ASSOC. PROF, 67- Res. consult, N.Y. Med. Col, 62-66. Psychol. Asn; Soc. Res. Child Develop. Effects of labels on children's perceptual processes; development of self-concepts. Publ: Co-auth, The relationship of auditory and visual functioning to reading achievement in disadvantaged children, Basic Books, 67; auth, The effects of labels on children's perception and discrimination learning, J. Exp. Psychol, 63; co-auth, Self-image disparity: a developmental approach, J. Personality & Soc. Psychol, 67. Address: Dept. of Psychology, New York University, University Heights, Bronx, N.Y. 10453.

KATZ, SAMUEL I(RVING), b. Nashville, Tenn, Mar. 17, 16; m. 46; c. 1. ECONOMICS. B.A, George Washington, 40, M.A, 42; M.P.A, Harvard, 48. Agr. economist, U.S. Dept. Agr, 39-46; economist, DIV. INT. FINANCE, FED. RESERVE BD, 48-61, ADVISER, 61- U.S.A, 43-46. Econ. Asn. International finance; money and banking. Publ: Canadian dollar and the fluctuating rate of exchange, Bull. Nat. Bank Belgium; Two approaches to the exchange-rate problem: the United Kingdom and Canada & Sterling speculation and European convertibility: 1955-1958, Princeton Univ. Essays in Int. Finance. Address: Benjamin St, McLean, Va. 22101.

KATZ, DR. SANFORD, b. Passaic, N.J, May 21, 28; m. 53; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, N.Y. Univ, 51, Ph.D.(psychol), 55; M.A, Boston, 52. Instr. PSYCHOL, Williams Col.(Mass), 57-60; asst. prof, HOBART & WILLIAM SMITH COLS, 60-63, ASSOC. PROF, 63- Psychol. Asn. Learning; motivation; thinking. Address: Dept. of Psychology, Hobart & William Smith Colleges, Geneva, N.Y. 14456.

KATZ, PROF. SAUL M(ILTON), b. N.Y, Apr. 7, 15; m. 52; c. 4. SOCIAL SCIENCES. B.S, Cornell, 40, M.S, 43; M.P.A, Harvard, 50, A.M, 51, Ph.D. (econ), 53. Chief food, agr. & forestry, Mil. Govt. of Hesse, Germany, 46-48; res. assoc, dept. econ, Harvard, 50-51; staff consult, Prod. & Mkt. Admin, U.S. Dept. Agr, 51-53; head import progs. sect, For. Agr. Serv, 53-55, chief export projs. bd, 55-57, prog. coordinator for Latin Am, 57-59; prog. officer, U.S. Dept. State, 59-61; assoc. prof. ECON. SOC. DEVELOP. & ECON, PITTSBURGH, 61-65, PROF, 65- Consult, Orgn. Am. States, 62-; ESAPAC, Costa Rica, 64-66; Agency Int. Develop, 64-; U.N, 65-; Getulio Vargas Found, Brazil, 66-67. U.S.A, 42-47, Capt. Econ. Asn; Soc. Pub. Admin. Economics; administration; development planning. Publ: Co-auth, A selected list of U.S. readings on development, U.S. Govt. Printing Off, 63; auth, Guide to modernizing administration for national development, Univ. Pittsburgh, 65; A systems approach to development administration, Papers Comp. Admin, 65. Address: Graduate School of Public & International Affairs, University of Pittsburgh, Pittsburgh, Pa. 15213.

KATZ, DR. SOLOMON, Ancient Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KATZ, DR. WILLIAM D, b. New York, N.Y, Sept. 14, 15; m. 40; c. 2. CLINICAL PSYCHOLOGY. A.B, Brooklyn Col, 40; M.A, N.Y. Univ, 42, Ph.D. (clin. psychol), 53. CONSULT. PSYCHOLOGIST, 42-; ASSOC. PROF. PSYCHOL. & ASST. CHMN. DEPT, BROOKLYN CENTER, LONG ISLAND UNIV, 64- Chief psychologist, Human Rels. Guid. Center, 46-55; instr, 1st & 2nd Dist. Dent. Socs, 48-53, prof. lectr, 48-61; psychotherapist, Civic Center Clin, Brooklyn, N.Y. 53-55, dir. admissions & diag. div, 54-55; exec. dir, Play Res. Inst, Inc. 54-59; psychotherapist, Group for Community Guid. Centers, 55-57; mem. bd. dirs. & psychotherapist, Ment. Health Inst, 56-59, exec. dir. consult. center, 58-59; clin. assoc, Psychol. Serv. Center, New York, 68- Psychol. Asn; Acad. Psychother; Interam. Soc. Psychol; Soc. Clin. & Exp. Hypnosis; Soc. Sci. Study Sex; Acad. Polit. & Soc. Sci; Asn. Appl. Psychoanal.(exec. secy, 64-67, pres, 68-69). Psychoanalytic psychotherapy; personality dynamics; clinical psychopathology. Address: 1 Albee Square, Brooklyn, N.Y. 11201.

KATZELL, DR. MILDRED E(NGBERG), b. Chicago, Ill, Jan. 5, 24; m. 53. PSYCHOLOGY. B.A, Syracuse, 44, M.A, 48, 48-52; Ph.D.(psychol), Columbia, 67. Jr. children's worker, County Dept. Vet. Relief, N.Y, 44-45; asst. psychol. serv. center, Syracuse, 45-46, admin. asst, 46-52; asst, Coop. Test Serv, 46; supvr. employee testing prog, Macy's Herald Square, 52-53; test servs. to schs. nursing, NAT. LEAGUE NURSING, 53-54, dir. eval. serv, 54-67, DIR. MEASUREMENT & EVAL, 67- Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed. Selection and achievement testing; measurement of interests and aptitudes, especially in nursing. Publ: co-auth, Development and application of structured tests of personality, Rev. Ed. Res; and A validation study of the NLN pre-admission and classification examination, Nursing Res, winter 62; auth, Expectations and dropouts in schools of nursing, J. App. Psychol, spring 68. Address: 1 Barry Dr, Glen Cove, N.Y. 11542.

KATZELL, PROF. RAYMOND A(BRAHAM), b. New York, N.Y, Mar. 16, 19; m. 53. PSYCHOLOGY. B.S, N.Y. Univ, 39, scholar, M.A, 41, Ph.D.(psychol), 43; Columbia, 39; fel, City Col. New York. Asst. psychol, N.Y. Univ, 39-42, instr, 42-43; City Col. New York, 42-43; sr. personnel technician, Adj. Gen. Off, N.Y, 43-45; asst. prof. PSYCHOL, Tennessee, 45-46, assoc. prof, 46-48; assoc. prof. indust. psychol. & dir. psychol. serv. center, Syracuse, 48-51; v.pres, Richardson Bellows, Henry & Co, 51-57; lectr, N.Y. UNIV, 51-53, prof. mgt. eng. & psychol, 57-63, PROF. PSYCHOL. & HEAD DEPT, 63-, DIR, RES. CENTER INDUST. BEHAV, 57- Training adv, Ill. Cent. R.R, 46-47; lectr, Columbia, 55-57. Consult, div. personnel, City of New York, 67- Chmn. adv. coun. psychologists, State of N.Y, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol. Civilian with U.S.A, 43-45. Fel. AAAS. fel. Psychol. Asn. Supervision and leadership; personnel selection and training; organizational theory; occupational behavior of culturally disadvantaged. Publ: Job satifaction, job performance and situational characteristics, J. Appl. Psychol; Contrasting systems of work organization, Am. Psychologist, 62; Testing and fair employment, N.Y. Univ, 68. Address: 1 Barry Dr, Glen Cove, N.Y. 11542.

KATZIN, DR. MARGARET FISHER, Anthrop, see 10th ed, Soc. & Behav. Vols.

KATZNER, DR. DONALD W, b. Baltimore, Md, Feb. 2, 38; m. 67. ECONOMICS. B.A, Oberlin Col, 59; M.A, Minnesota, 62, Ford Found. fel, 64-65, Ph.D.(econ), 65. Instr. ECON, 60-64; ASST. PROF, PENNSYLVANIA, 65- Res. grants, Dept. Health, Ed. & Welfare, 65-66, Nat. Sci. Found, 67-68 & Soc. Sci. Res. Coun, 67-68; vis. prof, Osaka, 67- Econ. Asn; Economet. Soc. Demand theory. Address: Dept. of Economics, University of Pennsylvania, Philadelphia, Pa. 19103.

KAUCKI, EUGENE F(RANCIS), b. Toledo, Ohio, Feb. 27, 20. ECONOMICS. M.A, Michigan, 47. Instr. ECON, Toledo, 53-54; Maryland, 54-55; Illinois, Chicago, 56-58; asst. prof, Wis. State, Whitewater, 58-61; Clarion State Col, 61-63; teaching asst, Iowa, 63-65; writer, 65- ; personnel analyst, Civil Serv. Cmn, City of Chicago, 68- U.S.A.A.F, 42-45. AAAS; Econ. Asn; Indust. Rels. Res. Asn. Industrial psychology; urban sociology; personality development. Address: 2339 W. Addison St, Chicago, Ill. 60618.

KAUDER, PROF. EMIL, b. Berlin, Germany, June 23, 01. ECONOMICS. Ph.D, Berlin, 24. Head private sch, Germany, 26-38; res. N.Y. Univ, 38-39; teacher, prep. schs, 39-47; asst. prof. econ. & sociol, Wyoming, 47-52; PROF. ECON. & SOCIOL. & HEAD DEPT. ECON, Ill. Wesleyan, 52-61; FLA. PRESBY. COL, 61- Prof, Hitotsubashi Univ, Japan, 60-61. Econ. Asn. History of economic thought; origin of the marginal utility theory. Publ: Carl Menger's addition to his principles, Hitotsubashi Univ, Japan, 62, History of marginal utility, Princeton, 66. Address: Dept. of Economics, Florida Presbyterian College, St. Petersburg, Fla. 33733.

KAUFER, DR. GEORGE, b. Hungary, Sept. 22, 18; nat; m. 41; c. 2. CLINICAL PSYCHOLOGY. Ph.D.(clin. psychol), N.Y. Univ, 54. Trainee clin. psychol, Vet. Admin, 52-54; fel, Post-Grad. Center Psychother, 54-58; private practice, 56- Psychologist, Rockland County Center Ment. Hyg, 55-57; post-doctoral clin, N.Y. Univ, 61-, adj. assoc. prof, 61- Mem. state bd. exam. psychol, 67- U.S.N, 44-46. AAAS; Psychol. Asn; Group Psychother. Asn. Psychotherapy and perception. Publ: An investigation of certain aspects of the relationship between personality orientation and perceptual defenses; A process analysis of transient therapy groups, Int. J. Group Psychother. Address: 321 Ave. C, New York, N.Y. 10009.

KAUFFMAN, ELLWOOD, Math, see 11th ed, Phys. & Biol. Vols.

KAUFFMAN, DR. IRVING, b. New York, N.Y, Nov. 29, 23. CLINICAL & EXPERIMENTAL PSYCHOLOGY. A.B, California, Berkeley, 47; Ph.D, Denver, 55. Chief outpatient psychol. serv, Letterman Gen. Hosp, San Francisco, Calif, 48-53; Fulbright scholar, Aberdeen, 55-56; consult, cerebral palsy clin. & well baby exp. proj. Michael Reese Hosp, Chicago, Ill, 56, staff psychologist. inst. psychosom. & psychiat. res, 56-57; chief psychologist, private clin, St. Louis, Mo, 57-59; clin. psychologist, Vet. Admin. Outpatient Sect, 61-66; DIR. DAY TREATMENT CENTER, VET. ADMIN. HOSP, 66-; CLIN. ASSOC. PROF. NEUROL. & PSYCHIAT, SCH. MED, TULANE, 67- Lectr, Northwestern, 56-57; Washington (St. Louis), 57-59; acting chief psychologist, Agnews State Hosp, San Jose, Calif, 59-61; in charge intern prog, Stanford, 59-61; lectr, Tulane, 62-64; La. State, 63-64. U.S.A, 43-46; U.S.A.F.R, 50-54, 1st Lt. Psychol. Asn. Brain damage in relation to learning. Publ: Brain damage and Einstellung, J. Neuropsychiat, 63; Les enfants terribles, Psychotherapy, 65; Some aspects of a day treatment center, Nat. Newsletter, 66. Address: 1808 Dauphine, New Orleans, La. 70116.

KAUFFMAN, PROF. J. HOWARD, b. Champaign Co, Ohio, Oct. 4, 19; m. 44; c. 4. SOCIOLOGY. A.B, Goshen Col, 47; A.M, Mich. State, 48; Ph.D, Chicago, 60. Asst. prof. SOCIOL, GOSHEN COL, 48-56, assoc. prof, 56-59, PROF, 60- Asst, Chicago, 54-55. Sociol. Asn; Rural Sociol. Soc. Family relations; rural sociology; sociology of Mennonites. Address: Dept. of Sociology, Goshen College, Goshen, Ind. 46526.

KAUFFMAN, PROF. JOSEPH F, b. Providence, R.I, Dec. 2, 21; m. 43; c. 2. SOCIOLOGY, COUNSELING PSYCHOLOGY. B.A, Denver, 48; M.A, Northwestern, 51; Ed.D.(counseling & guid), Boston, 58. Asst. to pres. & lectr, Brandeis, 52-56, dean students, 56-60; exec. v.pres, Jewish Theol. Sem. Am, 60-61; dir. training, Peace Corps, D.C, 61-63; staff assoc, Am. Coun. Ed. & dir. higher ed, Am. Personnel & Guid. Asn, 63-65; PROF. COUNSELING & BEHAV. SCI. & DEAN STUDENT AFFAIRS, WISCONSIN, 65- Lectr, Maryland, 64-65. Consult, Off. Econ. Opportunity, 65-66; Bur. Intel. & Res, U.S. Dept. State, 65- Chmn. nat. cmt. student in higher ed, Edward W. Hazen Found, 66- U.S.A, 42-45, Sgt. Soc. Personnel Asn; Sociol. Asn; Personnel & Guid. Asn. Sociology of education; youth development; the college student; student personnel administration; planning, development and administration of higher education. Publ: Education, Taplinger, 66; co-auth, The college and the student, Am. Coun. Ed, 66; auth, Student personnel services in higher education, Part I, summer 64 & Part II, fall 64, Ed. Record. Address: 15 Celia Court, Madison, Wis. 53711.

KAUFFMAN, DR. KENNETH M(ARK), b. Sacramento, Calif, Mar. 24, 30; m. 57; c. 4. ECONOMICS. A.B, California, 52; fel, Harvard, 54, A.M, 55, fel, 55-57, Ph.D, 58. Instr. econ, Wellesley Col, 57-58; instr. econ, Harvard & staff economist, int. prog. taxation, law sch, 58-61; chief econ. anal. div. & econ. adv, U.S. Agency Int. Develop, India, 61-66; sr. res. fel, Coun. For. Rels, N.Y, 66-67; ASST. DIR. ECON. PLANNING & PROG, U.S. AGENCY INT. DEVELOP, TURKEY, 67- Consult, Arthur D. Little, Inc, Mass, 60-61. Econ. Asn. Economic development. Publ: Co-auth, Tax incentives for industry is less developed countries, Harvard Law Sch. Int. Prog. in Taxation, 63; auth, The Indian economy: some recent history and near term prospects, Asian Surv, 6/67; co-auth, U.S. assistance to less developed countries, 1956-1965, For. Affairs, 7/67. Address: U.S. Agency for International Development, APO New York 09254.

KAUFFMAN, DR. R(ALPH) C, Psychol, see 10th ed, Soc. & Behav. Vols.

KAUFMAN, ALVIN, b. Philadelphia, Pa, Jan. 9, 28; m. 50; c. 3. ECONOMICS. B.Sc, Pa. State, 50; American Univ, 61-64. Res. asst, Pa. State Planning Bd, 50-53; admin. asst, mkt. dept, Hudson Coal Co, Pa, 53-54; commodity analyst, U.S. Bur. Mines, Pa, 54-56, proj. coordinator, Alaska, 56-60, mineral economist, off. dir, 60-63, staff coordinator div. econ. anal, 63-66, asst. chief, 66-67; CHIEF MINERAL ECON. GROUP, U.S. BUR. LAND MGT, 67- Superior performance awards, U.S. Dept. Interior, 64 & 67. U.S.A, 46-47. Soc. Min. Eng. Leasing economics, especially the outer continental shelf, including questions of cost, fair market value concepts and discounted cash flows. Publ: Auth, Geothermal power—an economic evaluation, 64 & co-auth, Water use in the mineral industry, 66, U.S. Bur. Mines, 66; auth, An analytical framework for potential ores, Eng. & Mining J, 6/67. Address: 7718 Newcastle Dr, Annandale, Va. 22003.

KAUFMAN, DR. FELIX, b. New York, N.Y, Nov. 13, 21; m. 47; c. 2. ECONOMICS. A.B, Chicago, 42, M.B.A, 48, Ph.D.(acct), 60. Teacher, Rochester, 49-53; v.pres. admin, Ruder & Finn, Inc, 55-57; dir. elec. data

process, LYBRAND, ROSS BROS. & MONTGOMERY, 57-60, partner, mgt. consult. serv, 60-68, NAT. DIR. MGT. SERV, 68- Teacher, Graceland Col, 49-53; Drake, 49-53; adj. assoc. prof, grad. sch. bus. admin, N.Y. Univ, 64- U.S.A.A.F, 43-46, 1st Lt. Am. Acct. Asn; Nat. Asn. Acct; Inst. Mgt. Sci. Control of management processes. Publ: Electronic data processing and auditing. Address: Lybrand Ross Brothers & Montgomery, 2 Broadway, New York, N.Y. 10004.

KAUFMAN, DR. GEORGE G(ERT), b. Berlin, Germany, Mar. 6, 33. ECONOMICS. B.A, Oberlin Col, 54; M.A, Michigan, 55; Fed. Reserve Bank Chicago fel, Iowa, 59-60, Ph.D.(econ), 62. Asst, bur. bus. & econ. res, Iowa, 57-59; economist, FED. RESERVE BANK CHICAGO, 60-65, SR. ECONOMIST, 65- Lectr, Northwestern, 65- U.S.N, 55-57. Econ. Asn; Statist. Asn. Financial theory and institutions. Publ: Co-auth, Bank deposit growth by state, J. Finance, 65; auth, Bank market structure and performance, South. Econ. J, 66; Indicators of monetary policy, Nat. Banking Rev, 67. Address: Research Dept, Federal Reserve Bank of Chicago, Chicago, Ill. 60690.

KAUFMAN, DR. GORDON M, b. Muskegon, Mich, Feb. 10, 32; m. 66. APPLIED MATHEMATICS, STATISTICS. B.S, Yale, 55; M.B.A, Harvard, 57, D.B.A.(statist. decision theory), 61. Asst. prof. STATIST. DECISION THEORY, Harvard, 61-62; MASS. INST. TECH, 62-65, ASSOC. PROF. 65- Soc. Sci. Res. Coun. fel, Belgium, 67. U.S.A, 57-58, Res, 58-65, 1st Lt. AAAS; Inst. Mgt. Sci; Statist. Asn. Statistical decision theory; Bayesian methods in multivariate analysis. Publ: Statistical decision theory and related techniques in oil and gas exploration, Prentice-Hall, 62. Address: Hermann Blvd, 50 Memorial Dr, Cambridge, Mass. 02139.

KAUFMAN, DR. HAROLD F(REDERICK), b. Greenville, Ohio, May 6, 11; m. 39; c. 1. SOCIOLOGY. A.B, Missouri, 38, A.M, 39; Ph.D, Cornell, 42. Asst. rural sociol, Cornell, 39-42; instr, Missouri, 42-45; sociologist, U.S. Forest Serv, Mont, 45; asst. prof. rural sociol, Kentucky, 45-48; Bailey prof. sociol. & rural sociol. & head div, MISS. STATE, 48-61, DIR. SOC. SCI. RES. CENTER, 60-, PROF. SOCIOL. & RURAL LIFE, 61- Vis. lectr, Columbia, 52; Wisconsin, 54; Fulbright res. scholar, India, 61, field study, India, 64. Consult, U.S. Dept. Agr, 55, 66; Nat. Religious Bodies, 52-67. Secy, World Cong. Rural Sociol, 64; mem, Cmt. Develop. Rural Sociol. South, 67- Sociol. Asn; Rural Sociol. Soc.(pres, 61-62). Community; social stratification; sociology of religious organization; rural sociology. Publ: Prestige classes in a New York rural community, Cornell Agr. Exp. Sta, 44; Toward an interactional conception of community, Soc. Forces, 59; Community structure and leadership, Soc. Sci. Res. Center, Miss. State Univ. 6/67. Address: Box 5161, Mississippi State University, State College, Miss. 39762.

KAUFMAN, DR. HENRY, Finance, see 10th ed, Soc. & Behav. Vols.

KAUFMAN, PROF. HERBERT, b. New York, N.Y, Sept. 21, 22. POLITICAL SCIENCE. B.S.S, City Col. New York, 42; M.A, Columbia, 46, Ph.D.(Am. polit. insts), 50. Intern, admin. mgt. div, U.S. Bur. Budget, 46; res. analyst, President's Cmt. Civil Rights, 47; res. assoc, Inst. Pub. Admin, 47-48; lectr, dept. govt, City Col. New York, 51-53; from asst. prof. to assoc. prof. POLIT. SCI, YALE, 53-63, PROF, 63-, chmn. dept, 64-67. Specialist, Mayor's Cmt. on Mgt. Surv, New York City, N.Y, 51-52; fel. Center Adv. Study Behav. Sci, 59-60; vis. prof, Columbia, 61-62; guest scholar, Brookings Inst, 67-68. Consult, Econ. Stabilization Agency, 52; N.Y. State Dept. Health, 62-63; U.S. Bur. Budget, 65, 66-67. Chmn, New Haven City Plan Cmn, 62-65, Housing Authority of the City of New Haven, 65-67; mem. Mayor's Task Force on City Personnel, New York City, 66. U.S.A, 42-46. Polit. Sci. Asn; Int. Polit. Sci. Asn. Public administration; local, state and national government. Publ: Co-auth, Governing New York City auth, Forest Ranger; Politics and policies in state and local government, Prentice-Hall, 63. Address: Dept. of Political Science, Yale University, New Haven, Conn. 06520.

KAUFMAN, DR. HOWARD K, b. New York, N.Y, Nov. 5, 22; m. 52; c. 4. CULTURAL ANTHROPOLOGY, LINGUISTICS. B.A, California, Berkeley, 44; B.A, Oberlin Col, 47; M.A, Indiana, 52, Ph.D.(cultural anthrop), 55; Fulbright res. grant, Thailand, 53-54. Community develop. adv, Agency Int. Develop, Laos, 55-57, Korea, 58-60, Nepal, 60-62; socio-econ. adv, Ministry Agr. Vietnam, 62-64; sr. anthropologist, spec. opers. res. off, American Univ, 64-66; ANTHROPOLOGIST & CONSULT, CORNELL AERONAUT. LABS, 67- U.S.A, 43-46, T/Sgt. Fel. Soc. Appl. Anthrop; fel. Anthrop. Asn. Village life in Laos, Vietnam, and Thailand; application of modified thematic aperception test and card sort tests for attitude survey; role of music in rural Asia; community development as a catalyst for rural economic development. Publ: Bangkhuad—a community study in Thailand, Augustine, 60; Culao—a fishing village and its cooperative, In: Modernization and change in East Asian societies, Cornell, 68. Address: 10208 Gary Rd, Potomac, Md. 20854.

KAUFMAN, DR. I(RVING) CHARLES, Psychiat, see 11th ed, Phys. & Biol. Vols.

KAUFMAN, PROF. JACOB J(OSEPH), b. U.S, Dec. 13, 14; m. 40; c. 2. ECONOMICS. A.B, Brooklyn Col, 34; M.S, Columbia, 35, Ph.D.(econ), 52. Economist, U.S. Govt, 36-47; asst. prof. econ, Buffalo, 47-54; vis. lectr, sch. indust. & labor rels, Cornell, 55-56; PROF. ECON, PA. STATE, 56-, DIR. INST. RES. HUMAN RESOURCES, 67- Railroad labor relations; trade union administration. Publ: Collective bargaining in the railroad industry; Role of secondary schools in the preparation of youth for employment, Pa. State Univ, 1/67; Economics of minimum wages in relation to the agricultural labor market, J. Farm Econ. Address: 534 Glenn Rd, State College, Pa. 16801.

KAUFMAN, DR. LAWRENCE W(ILLARD), Psychol, see 10th ed, Soc. & Behav. Vols.

KAUFMAN, DR. LLOYD, b. New York, N.Y, Sept. 6, 27; m. 54; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, San Diego State Col, 50; M.A, New Sch. Soc. Res, 57, Ph.D.(psychol), 61. Asst. engr, eng. psychol, Ford Instrument Co. div, Sperry Rand Corp, 52-57, sr. human factors specialist, Sperry Gyroscope Co, 57-61, head eng. psychol. sect, 61-62, MEM. RES. STAFF, SPERRY RAND RES. CENTER, 62- Lectr, Yeshiva, 61- U.S.N, 45-46. AAAS; Psychol. Asn. Visual perception of contour, size, depth and motion; visual search and detection; human verbal learning; display design; man machine systems. Publ: Co-auth, Moon illusion. Address: 48 Mayo Rd, Wellesley, Mass. 02181.

KAUFMAN, DR. MAXWELL CHARLES, b. New York, N.Y, June 19, 17; m. 46; c. 2. COUNSELING PSYCHOLOGY. B.S.S, City Col. New York, 37, M.S, 43; M.A, Columbia, 51; Ph.D. & scholar, N.Y. Univ, 56. Voc. adv, VET. ADMIN, N.Y. Regional Off, 46-51, COUNSELING PSYCHOLOGIST, 51-61, BROOKLYN OUTPATIENT CLIN, 61- Chief voc. adv, guid. center, City Col. New York, 51-52; instr, Pratt Inst, 57-59. Consult, State Div. Voc. Rehab, N.Y, 57- Mem. subcmt. methodology, res. proj. status of blinded vets. Am. Found. Blind, Vet. Admin. & Nat. Inst. Res. Neurol. Disease & Blindness. U.S.A, 41-46, Capt. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn. Placement of the seriously handicapped; counseling with emotionally disabled. Publ: Personal-social, educational and vocational adjustment of blinded veterans of World War II. Address: 21 Stuyvesant Oval, New York, N.Y. 10009.

KAUFMAN, DR. MELVIN E(DWIN), b. New York, N.Y, June 19, 27; m. PSYCHOLOGY. A.B, Hunter Col, 50; M.S, Illinois, 52; Ph.D, Pittsburgh, 55. Sr. psychologist, South. Wis. Colony & Training Sch, 55-57; asst. prof. psychiat, med. sch, WISCONSIN, 57-65, assoc. prof. BEHAV. DISABILITIES, 65-68, PROF, 68- Psychol. consult, Cent. Wisconsin Colony & Training Sch, 61-; Bethesda Lutheran Home, Wis, 61- U.S.C.G, 45-46. Psychol. Asn; Asn. Ment. Deficiency. Mental deficiency; behavior disorders; learning process in children. Publ: Formation of learning sets with mentally retarded children. Address: Center on Behavioral Disabilities, University of Wisconsin, 415 W. Gilman St, Madison, Wis. 53703.

KAUFMAN, PROF. ROGER A(LEXANDER), b. Washington, D.C, June 4, 32; m. 63; c. 2. COMMUNICATIONS, PSYCHOLOGY. B.A, George Washington, 54; M.A, Hopkins, 56; Ph.D.(commun), N.Y. Univ, 63. Asst. psychol, California, Berkeley, 56-59; human factors analyst, Boeing Airplane Co, Wash, 59-60; head personnel & training group, Martin Co, Md, 60-61; mgr. training & syst. anal, ed. sci. div, U.S. Indust, Inc, N.Y, 61-63; sr. scientist, training syst. div, Bolt, Beranek & Newman, Inc, 63-64; head exp. training, Douglas Aircraft Co, 64-65, asst. to v.pres. eng, 65, asst. to v.pres. res. & develop, 65-66; PROF. ED. & DIR. INST. INSTRUCTIONAL SYST. TECH. & RES, CHAPMAN COL, 66- Consult, Air Training Command, U.S. Air Force, 62-66; U.S. Dept. State & Venezuelan Govt, 63; bur. prog. planning & develop, Calif. State Dept. Ed, 64-; Oper. PEP, San Mateo County Dept. Ed, 65-; Newport-Mesa Unified Sch. Dist, 66- Human Factors Soc. Application of system technology to education and training; system and human factors engineering: human learning; management planning and systems. Publ: Co-auth, Why system engineering?, Fearon, 66; Serial effects in recall of unorganized and sequentially organized verbal material, J. Exp. Psychol, 9/67; The instructional system approach to training, Human Factors, 4/66. Address: 2225 E. 21st St, Apt. J, Long Beach, Calif. 90806.

KAUFMANN, DR. FRITZ, b. Vienna, Austria, Aug. 16, 96; nat; m. 21; c. 2. INTERNATIONAL RELATIONS. Dr.jur, Vienna, 20. Managing ed, World Encyclop. Inst, 42-48; instr, New Sch. Soc. Res, 47-51; PRES, ASN. ACAD. TRAVEL ABROAD, 49-; INSTR, NEW SCH. SOC. RES, 61- Instr, Fairleigh Dickinson Univ, 61-; vis. prof, Wyoming, 46; vis. prof. & dir. Marshall Plan-in-Action Proj, Vermont, 47-48; asst. dir, World Study Tours, Columbia, 48-49. Exec. secy. in charge ed, Woochefee Inst, New York, 45-48; mem. governing coun, Asia Inst, 47-52; secy, Int. Cmt. World Univ. Alliance, 47-48. International economics, politics and educational relations; prominent figures in German economic life; dangers ahead of the Marshall Plan. Address: 610 Cathedral Pkwy, New York, N.Y. 10025.

KAUFMANN, PROF. HARRY, b. Aug. 2, 27; U.S. citizen. PSYCHOLOGY. B.A, Pennsylvania, 59, M.A, 60, Ph.D.(soc. psychol. personality), 62. Res. assoc. PSYCHOL, Swarthmore Col, 62-63; asst. prof, Toronto, 63-65, assoc. prof, 65-67; PROF, HUNTER COL, 67- Psychol. Asn; Sociol. Asn; Soc. Psychol. Study Social Issues. An introduction to the study of human behavior, Saunders, 68; Man toward man: an analysis of aggressive and Samaritan interactions, Holt, 69. Address: Dept. of Psychology, Hunter College, New York, N.Y. 10021.

KAUFMANN, HELEN J(ULIET), b. Arad, Austria, Aug. 14, 18; nat. SOCIOLOGY, PSYCHOLOGY. B.S, Columbia, 42. Asst, bur. appl. soc. res, Columbia, 42-45; overseas br, Off. War Info, 45-46; instr. psychol, Brooklyn Col, 46-47; study dir. prog. testing, Am. Broadcasting Co, 46-49; commun. & attitude res, Am. Jewish Cmt, 49-50; proj. dir, Voice Am, U.S. Dept. State, 50-54; mgr. commun. res, McCann Erickson, Inc, 54-59; supvr. consumer res, Revlon, Inc, 59-61; MGR. MKT. RES, CLAIROL, INC. DIV, BRISTOL-MYERS CO, 61- Fel. Sociol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Development of research methodology; research on perception; mass communications and attitude research; applications of behavioral sciences to marketing problems. Publ: Appeal of individual daytime serials, In: Radio research; Implications of domestic research for international communications research, Pub. Opinion Quart. Address: 11 Riverside Dr, Apt. 5 AW, New York, N.Y. 10023.

KAUFMANN, DR. JOHN H(EIDEN), b. New York, N.Y, May 20, 19; m. 46; c. 2. ECONOMICS. B.A, Swarthmore Col, 40; M.P.A, Harvard, 47, Littauer scholar, 47-48, Ph.D.(polit. econ, govt), 53. Economist, Nat. Security Resources Bd. & Econ. Stabilization Agency, 48-53; consult. economist & v.pres, Boni, Watkins, Jason & Co, D.C, 53-58; econ. adv. to Govt. Iran, 58-61; White House Task Force, Okinawa, 61; dir. off. Greek, Turkey, Iran & Cyprus affairs, U.S. Agency Int. Develop, 62-63; participant, sr. seminar, For. Serv. Inst, Wash, D.C, 63-64; ASST. DIR. DEVELOP. PLANNING, U.S. AGENCY INT. DEVELOP, BRAZIL, 64- U.S.A, 42-46, Maj. Econ. Asn; Soc. Pub. Admin. Aviation and communications industries; price-wage; antitrust. Publ: Problem of coordinating price and wage programs in 1950-1953, Ind. Law J. Address: U.S. Embassy/Rio De Janeiro/ADDP, APO New York 09676.

KAUFMANN, DR. THOMAS D, b. Rye, N.Y, July 23, 22; m. 49; c. 2. ECONOMICS, FINANCE. B.A, Oberlin Col, 43; M.P.A. & M.A, Harvard, 48, Ph.D, 49. Mem. staff, prof. div, Econ. Coop. Admin, D.C, 49-50; U.S. del, NATO & Orgn. European Econ. Coop, 51-56; mem. staff, Am. Metal Climax, Inc, 56-66; V.PRES, AMAX ALUMINUM CO, 66- U.S.A, 43-46. Econ. Asn; Asn. Bus. Econ. Business planning; aluminum. Address: 48 Carleon Ave, Larchmont, N.Y. 10538.

KAUFMANN, PROF. WILLIAM WEED, b. New York, N.Y, Nov. 10, 18; m. 62. POLITICAL SCIENCE. B.A, Yale, 39, M.A, 47, Ph.D, 48. Instr. polit. sci, Yale, 48-51; asst. prof, Princeton, 51-56; researcher soc. sci, Rand Corp, 56-61, head dept, 61; PROF. POLIT. SCI, MASS. INST. TECH, 61- Consult, Rand Corp, 61-; U.S. Dept. Defense, 61-; Hudson Inst, 61-; Inst. Defense Analyses, 61- Mem, U.S. Dept. Air Force Sci. Adv. Bd, 61-63. Dept. Defense distinguished pub. serv. award, 67. Diplomatic history; international relations; defense studies. Publ: Ed, Military policy and national security; auth, The McNamara strategy, Harper, 64; British policy and the independence of Latin America, 1804-1828. Address: Dept. of Political Science, E53-433, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

KAUPS, DR. MATTI, b. Pärnu, Estonia, Sept. 23, 32; U.S. citizen; m. 59; c. 1. GEOGRAPHY. B.A, California, Los Angeles, 59; M.S, Wisconsin, 60; Ph.D. (geog), Minnesota, 66. Instr. GEOG, Minnesota, Duluth, 63-65; asst. prof, Macalester Col, 65-68; ASSOC. PROF, MINNESOTA, DULUTH, 68- Asn. Am. Geog; Am. Name Soc; Soc. Hist. Discoveries. Resource development in Scandinavia and the Soviet Union; Scandinavian and Finnish immigration into the United States; The Norse voyages and discoveries in the North Atlantic basin, A.D. 800-1010. Publ: Co-auth, The Finnish sauna: a cultural index to settlement, Ann. Asn. Am. Geogr, 63; auth, Some observations on the distribution of Finnish immigrants in America, Häjy, Helsinki, 65; Finnish place names in Minnesota: a study in cultural transfer, Geog. Rev, 66. Address: Dept. of Geography, University of Minnesota, Duluth, Minn. 55812.

KAUSCH, DR. DONALD F(REDERICK), b. Milwaukee, Wis, Feb. 3, 31; m. 52; c. 4. PSYCHOLOGY. B.S, Wisconsin, 53; M.A, Nebraska, 58, Ph.D.(clin. psychol), 62. Asst. prof. med. psychol, sch. med, Missouri, Columbia, 62-68; ASSOC. PROF. PSYCHOL. & DIR. PSYCHOL. CLIN, BOWLING GREEN STATE, 68- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 67. U.S.A, 54-56. Psychol. Asn. Assessment of brain damage; evaluation of attitudes; personality development. Publ: Attitudes of medical students and graduate students toward emotional illness and psychiatric practice, J. Med. Ed, 3/67. Address: Dept. of Psychology, Bowling Green State University, Bowling Green, Ohio 43402.

KAUSLER, PROF. DONALD H(ARVEY), b. St. Louis, Mo, July 16, 27; m. 52; c. 1. PSYCHOLOGY. A.B, Washington (St. Louis), 47, Ph.D.(psychol), 51. Asst. prof. PSYCHOL, Arkansas, 55-59; assoc. prof, ST. LOUIS, 60-62, PROF, 62-, CHMN. DEPT, 63- U.S.A.F, 51-54. Psychol. Asn. Learning and motivation; individual differences. Publ: Readings in verbal learning: contemporary theory and research, Wiley, 66; Methodological considerations in the construct validation of drive-oriented scales; Motivation and cue utilization in intentional and incidental learning. Address: Dept. of Psychology, St. Louis University, St. Louis, Mo. 63103.

KAUT, DR. CHARLES, b. Portsmouth, Ohio, Oct. 14, 26; m. 55; c. 2. SOCIOLOGY, ANTHROPOLOGY. B.A, Ohio Wesleyan, 49; M.A, Chicago, 52, Ph.D.(anthrop), 55. Asst. anthrop, Chicago, 53-55; asst. prof, Wyoming, 55-56; res. assoc, Chicago, 56-58; asst. prof, Southern Illinois, 59-61; ASSOC. PROF. ANTHROP & SOCIOL, VIRGINIA, 61- Vis. lectr, Illinois, 58; Nat. Sci. Found. fel. Tagalog soc. orgn, 63-66; Fulbright-Hays sr. res. prof, Philippines, 63-65. U.S.A, 44-47, 2nd Lt. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc. Structure and change in social systems. Publ: The western Apache clan organization. Address: Dept. of Sociology & Anthropology, Cabell Hall, University of Virginia, Charlottesville, Va. 22903.

KAUTSKY, PROF. JOHN H(ANS), b. Vienna, Austria, Mar. 5, 22; nat; m. 47; c. 2. POLITICAL SCIENCE. A.B, Chicago, 46, MacClintock fel. & A.M, 47; Thayer scholar & A.M, Harvard, 49, fel, 49-51, Ph.D.(polit. sci), 51. Tutor govt, Harvard, 49-51, intel. res. analyst, off. intel. res, U.S. Dept. State, 51-53; res. assoc. int. communism, center int. studies, Mass. Inst. Tech, 53-54; vis. asst. prof. govt, Rochester, 54-55; asst. prof. POLIT. SCI, WASHINGTON (ST. LOUIS), 55-58, assoc. prof, 58-63, PROF, 63- Rockefeller Found. res. grant, 58-59; res. fel, Russian res. center, Harvard, 58-59; guest prof, Inst. Adv. Studies Soc. Sci, Vienna, Austria, summer 64. U.S.A, 43-46. Polit. Sci. Asn.(secy, 65-66). Comparative politics; political development; modern ideologies. Publ: Moscow and the communist party of India, 56, Political change in underdeveloped countries, 62 & Communism and the politics of development, 68, Wiley. Address: Dept. of Political Science, Washington University, St. Louis, Mo. 63130.

KAVESH, PROF. ROBERT A(LLYN), b. New York, N.Y, Sept. 12, 27; m. 51; c. 4. ECONOMICS. Ph.D.(econ), Harvard, 54. Asst. prof. econ, Dartmouth Col, 53-56; bus. economist, Chase Manhattan Bank, 56-58; assoc. prof. ECON. & FINANCE, N.Y. UNIV, 58-62, PROF, 62- U.S.N, 45-46. Econ. Asn; Finance Asn.(secy-treas, 61-); Regional Sci. Asn.(secy, 55-60). Economic and financial forecasting. Publ: Business men in fiction; Financial framework for economic growth; co-auth, How business economists forecast, Prentice-Hall, 66. Address: 390 Highland Ave, Upper Montclair, N.J. 07043.

KAVKEWITZ, DR. HENRY, b. New York, N.Y, May 8, 13; m. 42; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 34, M.S, 35; Ph.D.(clin. psychol), N.Y. Univ, 54. Clin. psychologist, regional off, Vet. Admin, New York, 46-53, chief counseling psychol. serv, hosp, East Orange, N.J, 54-55, coordinator prog. develop, psychol. serv, 56-60, chief, Brooklyn, 60-65; ASSOC. PROF. PSYCHOL. & ED, TEACHERS COL, COLUMBIA, 65- Instr, N.Y. Univ, 55-56; dir, Regional Ment. Retardation Training Center, 65- Consult, 47-; U.S. Labor Dept. & Vet. Admin, 65- Mem, Mayors Cmt. Ment. Retardation, New York, 66- U.S.A, 42-46, Lt. AAAS; Psychol. Asn; Soc. Proj. Tech; N.Y. Acad. Sci. Perception; rehabilitation; schizophrenia; social psychological processes in hospitals. Address: Box 111, Teachers College, Columbia University, New York, N.Y. 10027.

KAVNER, DR. RICHARD S, Optom, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

KAVOLIS, DR. VYTAUTAS M(ARTYNAS), b. Kaunas, Lithuania, Sept. 8, 30; m. 58; c. 1. SOCIOLOGY. B.A, Wisconsin, 52; M.A, Harvard, 56, Ph.D. (sociol), 60. Instr. SOCIOL, Tufts, 58-59; asst. prof, Defiance Col, 60-62, ASSOC. PROF, 62-64; DICKINSON COL, 64- Sociol. Asn; Soc. Sci. Study Relig. Sociology of art; comparative social pathology; social and cultural change. Publ: Co-auth. & ed, Lietuviškasis liberalizmas, Santara-Šviesa, 59; auth, Artistic expression: a sociological analysis, Cornell, 68; co-auth. & ed, Comparative perspectives on social problems, Little, 69. Address: Dept. of Sociology, Dickinson College, Carlisle, Pa. 17013.

KAVRUCK, DR. S(AMUEL), b. New York, N.Y, Jan. 20, 15; m. 40; c. 2. PSYCHOLOGY. B.S, City Col. New York, 37, M.S.Ed, 39; A.M, George Washington, 50, Ed.D.(guid), 54. Intern psychologist, Letchworth Village for Feebleminded, 39-40; N.Y. State Sch. Delinquent Boys, 40; teacher to ment. retarded children, pub. schs, N.Y, 40-41; exam, U.S. Civil Serv. Cmn, 41-43; res. psychologist, Vet. Admin, 46-49; U.S. Civil Serv. Cmn, 49-53, occup. specialist, 53-59; specialist, testing progs, U.S. Off. Ed, 59-63; chief personnel rels. & training, Food & Agr. Orgn, UN, 63-65; specialist career develop, U.S. OFF. ED, 65-66, prog. mgt. officer, 66-67, CHIEF REGION 1, INNOVATIVE CENTERS BR, 67- Assoc. prof. lectr, George Washington, 61-63. U.S.A, 43-46. Psychol. Asn; Nat. Coun. Measurement in Ed. Occupational analysis; test construction. Publ: Test construction, mental test theory and statistics; Interrelationships of behavioral sciences to guidance function, Chronicle Guid, 66; Clinical psychology in the United States Air Force, In: A survey of clinical practice in psychology. Address: 5712 26 St. N.W, Washington, D.C. 20015.

KAWAI, PROF. KAZUO, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 63.

KAWIN, ETHEL, Psychol, see 10th ed, Soc. & Behav. Vols.

KAY, PROF. BRIAN R, b. N.Z, May 8, 24; m. 47. PSYCHOLOGY. B.A, British Columbia, 48, M.A, 49; Ph.D.(psychol), London, 51. Sci. officer psychol, Defense Res. Med. Labs, 52-54; asst. res. coordinator, Human Rel. Area Files, 54-56; asst. prof, New Hampshire, 56-59; assoc. prof, 59-64, prof, 64-66; New Col, 66-67; PROF. PSYCHOL. & HEAD DEPT. BEHAV. SCI, ROLLINS COL, 67- Royal N.Z. Navy, 41-44; Can. Army, 44-45. Am. Psychol. Asn; Brit. Psychol. Soc. Industrial criteria; role and leadership theory; methodology. Address: Dept. of Behavioral Science, Rollins College, Winter Park, Fla. 32789.

KAY, DR. DAVID ALLEN, b. Houston, Tex, June 8, 40; m. 60; c. 1. POLITICAL SCIENCE. B.B.A, Texas, 62; M.Int.Affairs, Columbia, 64, Ph.D.(int. orgn), 67. ASST. PROF. POLIT. SCI, WISCONSIN, 66- Adv, int. orgn. affairs, U.S. Mission to UN, 67-68. U.S.N.R, 58-64. Polit. Sci. Asn. Political dynamics of international organizations. Publ: Ed, The United Nations political system, Wiley, 67; auth, Secondment in the UN secretariat: an alternative view, 66 & The politics of decolonization, 67, Int. Orgn. Address: Dept. of Political Science, University of Wisconsin, Madsion, Wis. 53706.

KAY, DR. DAVID C, Psychiat, Psychopharmacol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

KAY, ELEANORE OCHS, b. Frankfurt, Germany, May 10, 19; nat; m. 57. CLINICAL PSYCHOLOGY. B.A, Hunter Col, 42; M.A, Iowa, 43; New Sch. Soc. Res, 47-51; Southern California & Los Angeles State Col, 60-62. Intern clin. psychol, State Insts, N.Y, 43-44; psychologist, State Training Sch. Girls, N.Y, 44-47; staff psychologist, Bellevue Psychiat. Hosp, N.Y, 47-53; Ethical Culture Schs, N.Y, 53-58; Los Angeles Child Guid. Clin, Calif, 58-63; ACTING CHIEF PSYCHOLOGIST, PARENT-TEACHER ASN. SCH. GUID. CENTER, 63- Supvr, Flower & Fifth Ave. Hosp, N.Y, 56-58; staff psychologist, Child Guid. Clin. Centineal Valley, N.Y, 60-63. Psychol. Asn; Orthopsychiat. Asn; Soc. Proj. Tech. Publ: Comparison of changes in Goodenough man-drawing associated with changes in social adjustment, J. Clin. Psychol. Address: 1541 N. Edgemont St, Los Angeles, Calif. 90027.

KAY, DR. HERBERT, b. Minneapolis, Minn, Apr. 13, 30; m. 59. PSYCHOLOGY, MASS COMMUNICATION. B.A, Minnesota, 51; Jackson fel. & A.M, Stanford, 53, Beaubaire fel. & Ph.D, 57. Analyst, Adv. Res. Found, 53; tech. dir, Dan E. Clark, II & Assocs, 54-55; res. dir, Walter Landor & Assocs, 57-59; dir. psychol. studies, Int. Res. Assocs, 59-60; dir, Center Study Audience Reactions, 61-63; PRES, HERBERT KAY RES, INC, 63- Psychol. Asn; Asn. Pub. Opinion Res; Mkt. Asn. Effects of mass communications content, especially of television programs. Publ: Toward an understanding of news-reading behavior, Journalism Quart; Effects of injecting local color into advertisements, J. Mkt; New approach to projective testing in survey research, Pub. Opinion Quart. Address: Herbert Kay Research, Inc, 33 N. Fullerton Ave, Montclair, N.J. 07042.

KAY, PROF. JAMES R(UDOLPH), b. Lafayette, Ala, July 2, 15; m. 42; c. 2. FINANCE. Du Pont fel. & Ph.D, Virginia, 50. Asst. prof. FINANCE, TEXAS, AUSTIN, 49-51, assoc. prof, 51-53, PROF, 53- U.S.N.R, 42-46, Lt. Finance Asn; Econ. Asn. Investment banking and analysis; money market. Address: College of Business Administration, University of Texas, Austin, Tex. 78712.

KAY, DR. LILLIAN W(ALD) (MRS. FLOYD ZULLI), b. New York, N.Y, Dec. 16, 18; m. PSYCHOLOGY. B.A, Hunter Col, 38; M.A, Columbia, 39, Ph.D. (psychol), 43. Asst, off. radio res, Columbia, 42-43; mem. res. serv, Boy Scouts Am, 43-44; admin. asst, Cmn. Community Interrels, 44-45; from inst. to asst. prof. psychol, N.Y. Univ, 45-51; asst. to dir. ed. div, Brookings Inst, 51-54; asst. res. dir. & dir. schs. & univ. prog, Citizens Cmt. Hoover Report, 54-56; POLICY ASSOC, GOVT. FINANCE DEPT, NAT. ASN. MFRS, 57- Consult. & evaluator, teacher ed. progs, Brookhaven Nat. Lab, 50-51. Fel. AAAS; fel. Psychol. Asn. Public opinion theory in relation to economic issues and problems. Publ: Relation of personal frames to reference to

social judgments, Arch. Psychol; Education for the atomic age, a psychological view, Nucleonics; ed, Digests and analysis of the nineteen Hoover Commission Reports. Address: 37 Washington Square, New York, N.Y. 10011.

KAY, DR. PAUL, b. Brooklyn, N.Y, Jan. 31, 20; m. 43; c. 4. PSYCHOANALYSIS. B.A, N.Y. Univ, 40; M.A, South Dakota, 41; M.D, N.Y. Med. Col, 44. Res. psychiat, Warren State Hosp, Pa, Grasslands Hosp, Valhalla, N.Y. & L.I. Col. Med, 47-50; supvr. child psychiat, Brooklyn Juvenile Guid. Clin, 52-53, 54-56; instr. psychother, div. psychoanal. ed, State Univ. N.Y. Downstate Med. Center, 56-66, from instr. to asst. prof. child, adolescent & adult psychiat, 57-66, psychoanal. training, 50-55, training child anal, 61-66; private practice psychoanal, 66- Consult, Emerson Sch, 50-53, 54; Roslyn Pub. Sch, N.Y, 54-; assoc. attend. pediat. dept, North Shore Hosp, 56- U.S.N.R, 45-46, 53-54, Lt. Fel. Psychiat. Asn. Psychoanalysis of adults and children. Address: 15 Canterbury Rd, Great Neck, N.Y. 11021.

KAY, DR. PAUL, b. New York, N.Y, Nov. 7, 34; m. 56; c. 2. ANTHROPOLOGY. B.A, Tulane, 55; Paris, 57-58; Nat. Sci. Found. & univ. fels. & Ph.D. (soc. anthrop), Harvard, 63. Summer res. asst, Urban Life Res. Inst, Tulane, 54 & 55; researcher Tahiti, directed by D.L. Oliver, Harvard, 59-60; res. asst. Indian med. & demog, sch. pub. health, Harvard, 62-63; Soc. Sci. Res. Coun. fel. math. anthrop, Stanford, 63-64; asst. prof. econ. & soc. sci, Mass. Inst. Tech, 64-65; Center Adv. Study Behav. Sci. fel, 65-66; acting assoc. prof. ANTHROP, CALIFORNIA, BERKELEY, 66-67, ASSOC. PROF, 67- Sr. investr. field work in drinking behav, Chiapas, Mex, 64; mem. anthrop. cmt. Math. Soc. Sci. Bd, 65- U.S.A.R, 58-63. Anthrop. Asn; Ling. Soc. Am. Language and behavior; ethnography; shared cognition; mathematical methods in anthropology; Oceania; middle America. Publ: Co-auth, Universality and evolution of basic color categories, Univ. California, (in press); ed, Explorations in mathematical anthropology, Mass. Inst. Tech, (in press); auth, Ethnography and theory of culture, Bucknell Rev, 64. Address: Dept. of Anthropology, University of California, Berkeley, Calif. 94720.

KAYA, DR. ESIN, b. Istanbul, Turkey, Apr. 14, 32; m. 61. EDUCATIONAL PSYCHOLOGY. B.A, Columbia, 54, M.A, 55; fel, N.Y. Univ, 57-58, Ph.D, 59. Asst. in charge statist. lab, N.Y. UNIV, 55-56, instr. statist, psychol. & ed. measurement, 56-57, res. assoc, 58-59, asst. prof. ED, 59-62, ASSOC. PROF, 62-, HEAD MEASUREMENT & EVAL. SECT, EXP. TEACHING CENTER, 58-, summer, asst. ed. testing serv, 56. Fel. from Turkish Govt, 51-57. Consult, Ford Found, 65-; Nat. Ed. Asn, 66-67; Bank St. Col. Ed, 66-67. Psychol. Asn; Ed. Res. Asn. Educational and psychological measurement; validity of achievement tests; thinking in young children and adults; creativity; theory development and testing. Publ: Curricular sequence based on psychological processes rather than subject content, Except. Children; Problems in evaluating educational plans in school setting, J. Ed. Sociol; co-auth, Construction of factor analytic validation of scales to measure attitudes toward education, Ed. & Psychol. Measurement. Address: School of Education, New York University, New York, N.Y. 10003.

KAYDEN, PROF. E(UGENE) M(ARK), Econ, see 10th ed, Soc. & Behav. Vols.

KAYE, DR. CAROL, b. New York, N.Y, Dec. 3, 25; m. CLINICAL PSYCHOLOGY. B.A, Wisconsin, 47; Soc. Sci. Res. Coun. fel, Michigan, 55, Ph.D, 58. Mem. staff res. contemporary culture, Columbia, 48-50; asst. study dir, surv. res. center, Michigan, 51-58; Russell Sage res, 58-59; asst. prof, Monteith Col, Wayne State, 59-61; instr. dept. psychiat, med. sch, Boston, 61-65; sr. ment. health coordinator, Newton Ment. Health Center, 65-66; FEL. PSYCHOTHER, CLIN. SERV, WILLIAM ALANSON WHITE INST, 67- Dir. prog. study, Monteith Col, 59- Private practice consult, 66- Psychol. Asn; Sociol. Asn. Personality and social structure; adolescent and adult personality change. Address: 365 West End Ave, New York, N.Y. 10024.

KAYE, DR. HERBERT, b. Bronx, N.Y, May 23, 35; m. 57; c. 1. PSYCHOLOGY. B.Sc, Columbia, 60; M.Sc, Brown, 62, Ph.D.(psychol), 64. Res. asst. psychol, Brown, 60-61, res. assoc, 64-66; ASST. PROF. PSYCHOL, OBSTET. & GYNEC, EMORY, 66- Summer, vis. instr, R.I. Col, 65. Dir, U.S. Pub. Health Serv. Proj, 67-69. Sensory and learning process in the newborn human and the infrahuman organism. Publ: The effects of feeding and tonal stimulation on non-nutritive sucking in the human newborn, J. Exp. Child Psychol, 66; Rearing of M. Mulatta from birth, Lab. Animal Care, 66; Sucking behavior in the human infant: an evaluation of the process and its modification, In: Advances in child development and behavior, Vol. III, 67. Address: Dept. of Psychology, Emory University, Atlanta, Ga. 30322.

KAYE, PROF. NORMAN J(OSEPH), b. Milwaukee, Wis, Apr. 24, 23; m. 47; c. 7. STATISTICS, ECONOMICS. B.S, Marquette, 48; M.B.A, Michigan, 51; Ph.D.(commerce), Wisconsin, 56. From instr. to assoc. prof. gen. bus, MARQUETTE, 49-66, PROF. BUS. ADMIN, 66- U.S.A, 43-45. Econ. Asn; Statist Asn. Study of experimental mathematics course as a foundation for quantitative methods of business analysis and management decision making. Publ: Elementary quantitative techniques for business problem solving, Dickenson, spring 68; How the public looks at management problems; Foresight vs. hindsight, Marquette Bus. Mem. Address: College of Business Administration, Marquette University, Milwaukee, Wis. 53233.

KAYNOR, PROF. ALLEN R(EED), b. Springfield, Mass, Jan. 25, 17; m. 47; c. 5. PSYCHOLOGY, GUIDANCE. A.B, Yale, 39; M.Ed, Springfield Col, 48; Ed.D.(guid), Columbia, 59. Jr. underwriter, Springfield Fire & Marine Ins. Co, 40-42; instr. PSYCHOL, SPRINGFIELD COL, 47-50, asst. prof, 51-55, assoc. prof, 55-59, PROF, 59- Civilian Pub. Serv, 41-46. Asn. Counsr. Ed. & Supv; Psychol. Asn; Personnel & Guid. Asn; Soc. Psychol. Study Social Issues; College Personnel Asn; Voc. Guid. Asn. Race awareness in preadolescent boys; academic achievement among college students above predicted performance. Address: Dept. of Psychology, Springfield College, Springfield, Mass. 01109.

KAYSEN, DR. CARL, b. Philadelphia, Pa, Mar. 5, 20; m. 40; c. 2. ECONOMICS. A.B, Pennsylvania, 40; Columbia, 40-41; M.A, Harvard, 47, Soc. Fels. fel, 47-50, Ph.D.(econ), 54. Asst. prof. econ, Harvard, 50-55, assoc. prof, 55-56, prof, 56-66, assoc. dean grad. sch. pub. admin, 60-66; DIR. INST. ADV. STUDY, 66- Consult, U.S. Dept. Defense, 54; U.S. Civil Defense Admin, 54-55; Rand Corp, 58; dep. spec. asst. to President for nat. security affairs, White House, 61-63. U.S.A.A.F, 43-45, Capt. Econ. Asn; fel. Am. Acad. Arts & Sci; Economet. Soc. Price theory; industrial organization. Publ: U.S. and United Shoe Machinery Company; co-auth, American business creed; Anti-trust policy, economic analysis. Address: Institute for Advanced Study, Princeton, N.J. 08540.

KAZECK, PROF. MELVIN E, b. Minn, Apr. 15, 15; m. 41. GEOGRAPHY. B.E, St. Cloud State Col, 38; M.S, North Dakota, 47; D.Ed.(geog), Columbia, 53. Asst. prof. geog, North Dakota, 47-57; PROF. EARTH SCI. & CHMN. DEPT, SOUTHERN ILLINOIS, 57- U.S.A.A.F, 42-45, Capt. Asn. Am. Geog; Nat. Coun. Geog. Ed. Meteorology; economic and political geography. Publ: Geography of North Dakota, Inst. Reg. Studies, 54; Climate workbook, Stipes, 67; Conservation aims, J. Geog, 55. Address: Kendall Hills Route 1, East Alton, Ill. 62024.

KAZMIER, DR. LEONARD J, b. Hamtramck, Mich, Mar. 16, 30; m. 51; c. 2. STATISTICS, BUSINESS MANAGEMENT. B.A, Wayne State, 51, M.A, 58; Ph.D.(psychol), Ohio State, 60. Staff analyst indust. rels, Ford Motor Co, 56-58; instr. psychol, Ohio State, 58-60; asst. prof. MGT, Wayne State, 60-61; assoc. prof, Notre Dame, 61-65; ARIZONA STATE, 65-68, PROF, 68- Carnegie Res. assoc, Nat. Study Cath. Ed, 62-65. U.S.N, 52-56, Lt. Statist. Asn; Acad. Mgt; Psychol. Asn. Statistical decision theory and its application to the managerial process of planning and controlling; use of programmed instructional methods in training and development. Publ: Principles of management, 64 & Statistical analysis for business and economics, 67, McGraw. Address: Dept. of Management, Arizona State University, Tempe, Ariz. 85281.

KEARL, PROF. BRYANT (EASTHAM), b. Paris, Idaho, Sept. 21, 21; m. 41; c. 4. JOURNALISM. B.S, Utah State Agr. Col, 41; M.S, Wisconsin, 42; Ph.D. (polit. sci), Minnesota, 51. From instr. to asst. prof, AGR. JOURNALISM, WISCONSIN, 46-47, from assoc. prof. to PROF, 48-, V.CHANCELLOR, 67-, assoc. dean grad. sch, 63-67. Lectr, Minnesota, 47-48; vis. prof, Bonn, 61-62; mem, Nat. Sci. Found. panels, 66-67. Consult, agr. journalism progs, Ministry Agr, W. German Fed. Repub, 52. U.S.N.R, 44-46, Lt.(jg). Asn. Ed. Journalism; Asn. Agr. Col. Editors.(pres, 63-64); Asn. Pub. Opinion Res. Influence of mass media on attitudes, opinions and practices, especially in the field of agricultural methods; technical journalism. Address: 2807 Ridge Rd, Madison, Wis. 53705.

KEARL, PROF. C(HASE) D(ELMAR), b. Provo, Utah, July 26, 17; m. 43; c. 6. AGRICULTURAL ECONOMICS. B.S, Utah State, 41; M.S, Cornell, 47, Ph.D, 49. Asst, CORNELL, 46-49, asst. prof. FARM MGT, 49-52, assoc. prof, 52-61, PROF, 61- Vis. assoc. prof, Philippines, 54-56; farm mgt. specialist, U.S. Dept. Agr, Uganda, 60-61. U.S.A, 42-46, 1st Lt. Am. Agr. Econ. Asn.(secy-treas, 59-); Econ. Asn; Int. Asn. Agr. Econ. Farm management; farm cost accounting; farm enterprise costing; business analysis. Address: Dept. of Agricultural Economics, College of Agriculture, Cornell University, Ithaca, N.Y. 14850.

KEARNS, DR. KEVIN CORRIGAN, b. St. Louis, Mo, Aug. 6, 40; m. 66. GEOGRAPHY. B.S, Washington (St. Louis), 62; M.A, St. Louis, 64, Ph.D.(Am. studies), 66. Instr. GEOG, St. Louis, 65-66; ASST. PROF, COLO. STATE COL, 66- Asn. Am. Geog; Latin Am. Studies Asn. Latin America, especially its cultural and economic development. Publ: Co-auth, Demography for classroom use, Mo. Geogr, fall 66; auth, The acquisition of St. Louis' Forest Park, Mo. Hist. Rev, 1/68. Address: Dept. of Geography, Colorado State College, Greeley, Colo. 80631.

KEAT, DR. PAUL G(ABRIEL), b. Prague, Czech, May 2, 25; nat; m; c. 3. ECONOMICS, ACCOUNTING. B.B.A, City Col. New York, 49; A.M, Washington (St. Louis), 50; M.A, Chicago, 52, Ph.D, 59. Instr. econ, State Univ. N.Y. Col. Forestry, Syracuse, 53-55; res. assoc, Asn. Casualty & Surety Co, 55-56; econ. analyst, United Air Lines, Inc, 56-58; res. economist, transportation center, Northwestern, 58-59; admin. asst, INT. BUS. MACH. CORP, 59, supvr. statist, 59-60, mgr. statist, 60-66, mgr. bus. anal, 66-67, PLANNING CONSULT, 67- Lectr, City Col. New York, 60- U.S.A, 43-46, Sgt. Econ. Asn. Economics of the firm; financial analysis; labor economics and wage determination. Publ: Program of fiscal policy; Long run changes in occupational wage structure, 1900-1956, J. Polit. Econ; co-auth, Prices of used commercial aircraft, 1959-1965. Address: International Business Machines Corp, Old Orchard Rd, Armonk, N.Y. 10504.

KEBERLE, DR. KLAUS H, b. Kiel, Germany, Jan. 7, 31; U.S. citizen; m. 55; c. 4. POLITICAL SCIENCE. B.A, La. State, 56; M.A, Chicago, 58, Ph.D. (polit. sci), 63. Instr. soc. sci, Chicago, 59-60; from instr. to asst. prof. pub. affairs, Syracuse, 60-65; assoc. prof. polit. sci, Okla. State, 65-67; ASST. PROF. GOVT. & LAW, LAFAYETTE COL, 67- Summer vis. prof, Cornell, 64-67. U.S.A, 51-54. Polit. Sci. Asn. Relationship between federalism and democracy in the United States; development of the concept of due process of law. Publ: Co-auth, Conflict and cooperation, Syracuse Univ, 64. Address: Dept. of Government & Law, Lafayette College, Easton, Pa. 18042.

KEBKER, PROF. VANT W(ILMOT), b. Grayslake, Ill, July 12, 09; m. 38; c. 3. ECONOMICS. A.B, Minnesota, 31, A.M, 33, Ph.D, 40. Assoc. prof. ECON. & BUS. ADMIN, OHIO WESLEYAN, 46-53, PROF. WHITE FOUND, 53- U.S.N, 44-46, Res, 46-, Comdr. Econ. Asn; Mkt. Asn. Marketing; consumers' cooperatives in the north central states; operation of the unfair trade practice laws in the large cities of Kansas. Address: Dept. of Economics & Business Administration, Ohio Wesleyan University, Delaware, Ohio 43015.

KEBSCHULL, DR. HARVEY G, b. Eagle, Nebr, Apr. 9, 32; m. 60; c. 1. POLITICAL SCIENCE. B.A, Nebraska, 55, M.A, 56; univ. fels, Illinois, 60-62, Ph.D.(polit. sci), 62. Asst. prof. POLIT. SCI, Montana, 62-66; vis. asst. prof, Vanderbilt, 66-67; ASST. PROF, N.C. STATE, 67- Intel.C U.S.A, 56-58. Polit. Sci. Asn. Politics of developing societies; problems of comparative methods. Publ: Politics in transitional societies, Appleton, 68. Address: Dept. of Politics, North Carolina State University, Raleigh, N.C. 27607.

KECK, DR. DANIEL NEWTON, b. Springfield, Ohio, Mar. 15, 39; m. 62. POLITICAL SCIENCE. B.A, Miami (Ohio), 60; M.A, Connecticut, 64, Ph.D. (polit. sci), 67. ASST. PROF. GOVT, BALDWIN-WALLACE COL, 66- U.S.N, 60-63, Lt. Polit. Sci. Asn. American foreign policy and international politics. Address: Dept. of Government, Baldwin-Wallace College, Berea, Ohio 44017.

KECKEISSEN, SISTER MARY GERTRUDE, b. New York, N.Y, Apr. 6, 09. PSYCHOLOGY. M.A, Fordham, 32; Ph.D, Catholic Univ, 45. ASSOC. PROF. PSYCHOL, COL. MT. ST. VINCENT, 45- Psychol. Asn. Scientific psychology; testing and personality structure. Address: Dept. of Psychology, College of Mt. St. Vincent, New York, N.Y. 10471.

KEDDIE, DR. NIKKI R, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KEE, DR. WOO SIK, b. Seoul, Korea, Dec. 28, 32. ECONOMICS. B.S, Wyoming, 60; M.A, Clark, 61; Ph.D.(econ), Syracuse, 64. Res. asst. tax study, Brookings Inst, 60-61; asst. prof. ECON, State Univ. N.Y. Stony Brook, 64-67; ASSOC. PROF, WEST VIRGINIA, 67- Ford Found. fel. seminar state & local finance, Michigan, summer 66; Regional Coun. Int. Ed. grant, Taiwan, summer 67. Tax consult, Temporary Cmn. City Finance, New York, 65-66. Korean Army, 52-54, 1st Lt. Econ. Asn; Nat. Tax Asn. Poverty and the urban fiscal problem; state and local finance in West Virginia. Publ: Central city expenditures and metropolitan areas, Nat. Tax J, 12/65; State and local fiscal systems and municipal expenditures, Pub. Admin. Rev, 3/67; Suburban population growth and its implications for core city finance, Land Econ, 5/67. Address: Dept. of Economics, West Virginia University, Morgantown, W.Va. 26506.

KEECH, PROF. J(AMES) MAYNARD, b. Tarboro, N.C, Feb. 16, 03; m. 32; c. 3. ECONOMICS. A.B, Duke, 24, M.A, 28, Dodge fel, 28-30, Ph.D, 37. Instr. econ. & acct, Duke, 31-42; recruiting specialist, U.S. Civil Serv. Cmn, 42-44; PROF. MGT. & CHMN. DEPT, MIAMI (FLA), 44- Inst. Mgt; Acad. Mgt; Soc. Adv. Mgt. Management; labor; insurance. Publ: Workmen's compensation in North Carolina; Rate making in fire insurance. Address: 2453 Inagua Ave, Miami, Fla. 33133.

KEECH, DR. WILLIAM ROBERTSON, b. Los Angeles, Calif, Oct. 2, 39; m. 66. POLITICAL SCIENCE. B.A, Bucknell, 61; M.A, Wisconsin, 62, Ph.D.(polit. sci), 66. Asst. prof. POLIT. SCI, NORTH CAROLINA, CHAPEL HILL, 65-68, ASSOC. PROF, 68- Polit. Sci. Asn. Public policy formation process in western democracies. Publ: The impact of Negro voting, Rand, 68; co-auth, Group influence on policy process in Soviet Union, Am. Polit. Sci. Rev, 68 & The study of American government since World War II, J. Polit, 68. Address: Dept. of Political Science, University of North Carolina, Chapel Hill, N.C. 27515.

KEEFE, SISTER KAREN, C.D.P, b. Bloomington, Tex, Feb. 2, 32. PSYCHOLOGY. B.S, Our Lady of the Lake Col, 55; M.A, St. Louis, 61, Ph.D.(psychol), 65. Teacher, parochial sch, La, 51-56, Tex, 56-59; instr. PSYCHOL, OUR LADY OF THE LAKE COL, 61-63, asst. prof, 65-68, ASSOC. PROF, 68-, CHMN. DEPT. SOCIOL. & PSYCHOL, 66- Assoc. Psychol. Asn. Learning; psychological assessment. Address: 411 S.W. 24th St, San Antonio, Tex. 78207.

KEEFE, PROF. WILLIAM J(OSEPH), b. Piper City, Ill, Nov. 28, 25; m. 48; c. 5. POLITICAL SCIENCE. B.S, Ill. State Nor. Univ, 48; M.A, Wayne, 49; Harris fel, Northwestern, 49-50, 50-51, Ph.D.(polit. sci), 51; Soc. Sci. Res. Coun. fel, 50-51. Asst. prof. POLIT. SCI, Alabama, 51-52; assoc. prof. Chatham Col, 55-61, prof, 61-68, chmn. dept, 52-68; PROF. & CHMN. DEPT, PITTSBURGH, 68- U.S.N.R, 44-46. Polit. Sci. Asn. Political parties; political behavior; state legislative process. Publ: Co-auth, The American legislative process, Prentice-Hall, 64, 68; Parties, partisanship and public policy in the Pennsylvania legislature, Am. Polit. Sci. Rev; Southern politics revisited, Pub. Opinion Quart. Address: Dept. of Political Science, University of Pittsburgh, Pittsburgh, Pa. 15213.

KEEGAN, JOSEPH G(ERARD), S. J, b. New York, N.Y, May 19, 06. PSYCHOLOGY. B.A, Woodstock Col.(Md), 29, M.A, 30, S.T.L, 37; M.A, Yale, 42, Ph.D, 49. Asst. prof. PSYCHOL, FORDHAM, 46-49, ASSOC. PROF, 49-, STAFF PSYCHOLOGIST, COUNSELING CENTER, 66-, chmn. dept. psychol, 49-58, dir, counseling center, 61-66. Psychol. Asn; Brit. Psychol. Soc. Neurology; personality theory and assessment; religious values; scaling techniques. Address: Dept. of Psychology, Fordham University, New York, N.Y. 10458.

KEEGAN, JOSEPH R(OGER), b. New York, N.Y, Jan. 20, 27. STATISTICS, PUBLIC ADMINISTRATION. B.S, Long Island, 54; M.P.A, N.Y. Univ, 56, scholar, 57-60; State Univ. N.Y, 61. Res. statistician, New York Dept. Health, 57-59; div. employ, State Dept. Labor, 59-60, sr. statistician, 60-63; STATISTICIAN, STATIST. DIV, INTERNAL REVENUE SERV, U.S. TREAS, DEPT, 63- U.S.A, 45-46, Sgt. Statist. Asn. Labor force statistics, work planning projections; federal tax law; mathematic models; statistical computer techniques. Address: Statistical Division, Internal Revenue Service, Pennsylvania & Tenth St, Washington, D.C. 20024.

KEEHN, ROBERT J(OHN), b. Rochester, N.Y, Jan. 1, 22; m. 46; c. 5. BIOSTATISTICS. B.S, Hartwick Col, 47; M.S, Hopkins, 53. Statistician, State Dept. Health, N.Y, 48-53; dir. bur. vital statist, Conn, 53-58; PRFNL. ASSOC, NAT. ACAD. SCI-NAT. RES. COUN, 58- Statistician, Atomic Bomb Casualty Cmn, Japan, 63-66. U.S.A, 42-45. Fel. Pub. Health Asn. Medical research statistics. Publ: Co-auth, Postoperative wound infections, the influence of ultraviolet irradiation of the operating room and various other factors, Supp. Ann. Surg, 8/64. Address: National Academy of Science-National Research Council, 2101 Constitution Ave, Washington, D.C. 20418.

KEELER, MAJ. HARPER BROWN, U.S.A.F, b. Galveston, Tex, Aug. 9, 35; m. 57; c. 3. POLITICAL SCIENCE. B.S, U.S. Mil. Acad, 57; Ph.D.(polit. sci), Mass. Inst. Tech, 66. U.S. AIR FORCE, 57-, officer & pilot, Strategic Air Command, 57-63, ASST. PROF. POLIT. SCI, U.S. AIR FORCE ACAD, 66- Polit. Sci. Asn. Management of large research organizations; defense policy of the United States. Address: 3106 Wesley Lane, R.R. 5, Colorado Springs, Colo. 80907.

KEELER, PROF. JOSEPH T(HOMAS), b. San Diego, Calif, Apr. 25, 24; m. 46; c. 4. AGRICULTURAL ECONOMICS. B.S, California, 51; M.S, Illinois, 52. Asst. prof. agr. econ, HAWAII, 54-58, asst. dir. agr. exp. sta, 58-59, asst. prof. AGR. ECON, 59-66, ASSOC. PROF, 66- Campus coordinator Univ. Hawaii-Kasetsart Univ, Bangkok, Agency for International Development 62-65. Agr. Econ. Asn. Economic production and marketing feasibility studies on tropical crops; cost of production and efficiency studies on horticultural crops. Publ: Processing cherry coffee on farms in Kona, Hawaii, co-auth, Economic report on the cost of producing Kona coffee & Economics of diesel versus gasoline in small wheel tractors, Hawaii Agr. Exp. Sta. Bull. Address: Dept. of Agricultural Economics, University of Hawaii, Honolulu, Hawaii. 96822.

KEELER, DR. MARTIN H(ARVEY), Med, see 11th ed, Phys. & Biol. Vols.

KEELEY, PROF. BENJAMIN J(OSEPH), b. Wilmington, Del, Sept. 14, 17; m. 44; c. 1. SOCIOLOGY. B.Ed, Nebr. State Teachers Col, 47; M.A, Nebraska, 50, Ph.D.(sociol), 54. Asst. prof. sociol, ILLINOIS STATE, 52-54, assoc. prof, 54-61, PROF. SOCIOL, 61-, SOC. SCI. ADV, 67-, head dept. soc. sci, 61-66, acting dean col. arts & sci, 66-67. Consult, human rels. proj, Southern Illinois, 67. U.S.A.A.F, 42-46. Sociol. Asn. Sociology of religion and mental health. Publ: Value convergence and marital relations, Marriage & Family Living; Use of reading lists for graduate students in sociology, Sociol. & Soc. Res, 7/64; Cultural deprivation, Ill. State Univ. J, 12/65. Address: Dept. of Sociology, Illinois State University, Normal, Ill. 61761.

KEELING, PROF. WILLIAM B(ROWNING), b. Galveston, Tex, Jan. 5, 22; m. 46; c. 2. ECONOMICS. B.B.A, Texas, 46, M.A, 49, fel, 50-52, Ph.D, 54; Zurich, 48-49. Asst. prof. econ, Trinity (Tex), 52-57; economist, Air Mat. Command, U.S. Air Force, 57-60; PROF. ECON. & DIR. BUR. BUS. & ECON. RES, GEORGIA, 60- Vis. lectr, U.S. Air Force Logistics Sch, 59-60. U.S.A, 43-45, Lt. Business research; economic development; government and business; development of economic thought. Publ: Tourist and recreation travel in Georgia. Address: Dept. of Economics, University of Georgia, Athens, Ga. 30602.

KEELY, DR. HAROLD W(ALLACE), JR, b. Marysville, Calif, May 16, 25; m. 47; c. 2. PSYCHOLOGY. B.A, Stanford, 50; M.A, Denver, 52, Ph.D. (psychol), 55. Res. assoc. med. psychol, sch. med, Colorado, 53-55, lectr, 54-57, instr. clin. psychol. & chief psychologist, children's clin, 55-57, asst. prof. & chief psychologist, 57-59; from asst. prof. to ASSOC. PROF. PSYCHOL, SAN JOSE STATE COL, 59- Lectr, Denver, 54-57. Consult. psychologist, Children's Aid Soc, Colo, 52; Cerebral Palsy Center, 53-54; Craig Colony Rehab. Center, 56; Wallace Sch. Except. Children, 57-59; Forest Heights Lodge Residential Treatment Center Emotionally Disturbed Children, 57-59. U.S.A, 43-46. Psychol. Asn; Orthopsychiat. Asn. Psychoanalytic theory; parent child relationships; psychopathology in children; parapsychology. Publ: Co-auth, Preliminary report on a method of measuring psi correspondences with IBM machines; Role of psychiatry and psychology in the pediatric training program, Am. Psychiat. Asn. Papers; Further study of teacher-pupil attitudes and results on clairvoyance tests in the fifth and sixth grades, J. Am. Soc. Psychical Res. Address: Dept. of Psychology, San Jose State College, 125 S. Seventh St, San Jose, Calif. 95114.

KEEN, DR. ELMER A, b. Lakeland, Fla, Mar. 24, 26; m. 56; c. 2. GEOGRAPHY. B.A. & M.A, George Peabody Col, 50; Wisconsin, 54; Ph.D.(geog), Washington (Seattle), 65. Cultural geogr, U.S. Army, Tokyo, 52-54 & 55-60, res. specialist, 63-65; ASST. PROF. GEOG, Victoria (B.C), 65-67; SAN DIEGO STATE COL, 67- High sch. geog. proj. grant, 66-67. U.S.N, 44-46. Asn. Am. Geog; Asn. Asian Studies; Asn. Japanese Geog. Marine resources exploitation, especially the Pacific Ocean. Address: Dept. of Geography, San Diego State College, San Diego, Calif. 92115.

KEEN, PROF. FORREST M(EARL), b. Chicago, Ill, Jan. 14, 99. SOCIOLOGY. A.B, Heidelberg Col, 25; Cent. Theol. Sem, 25-26; Ph.D, Ohio State, 34. Prof. soc. sci, Brooklyn Col. Pharm, 34-35, instr. SOCIOL, Long Island, 41-43, asst. prof, 43; PROF, HEIDELBERG COL, 44- Hazen Found. fel, 49-51. U.S.A, 18-19. Soc. Sci. Study Relig; Soc. Psychical Res. Significance of group discussion in contemporary society. Address: 646 Melmore St, Tiffin, Ohio 44883.

KEEN, DR. JOHN ERNEST, b. Indianapolis, Ind, Feb. 15, 37; m. 58; c. 2. PSYCHOLOGY. A.B, Heidelberg Col, 59; Nat. Inst. Ment. Health fel, Harvard, 62-63, Ph.D.(soc. psychol), 63. Teaching fel. psychol, Harvard, 61-63, summer, 64; fel. clin. psychol, Vet. Admin. Hosp, Boston, Mass, 63-64; instr. PSYCHOL, Boston, 64; ASST. PROF, BUCKNELL, 64- Psychol. consult, Pa. Bur.Voc. Rehab, 64-; Fed. Penitentiary, Lewisburg, 65- Summer psychologist, Union County Proj. Headstart, 66, 67. Psychol. Asn. Clinical and existential psychology; group therapy; Freud as a cultural phenomenon. Address: Dept. of Psychology, Bucknell University, Lewisburg, Pa. 17837.

KEEN, PROF. QUENTIN BEGLEY, b. Dryhill, Ky, Sept. 25, 18; m. 47; c. 2. HISTORY, EDUCATION. B.A, Berea Col, 39; M.A, Duke, 47; M.A, Eastern Kentucky, 55; Kentucky, 59-60; Ph.D.(hist), California, Los Angeles, 61. Teacher, high schs, Ky, 39-42, prin, 52-55; teacher, high sch, Calif, 51-52; dean men, EASTERN KENTUCKY, 55-61, assoc. prof. soc. sci, 61-63, HIST, 63-65, PROF, 65-, ED, 66- U.S.A, 43-46, T/Sgt. Am. Studies Asn; Orgn. Am. Hist. The influence of English religious and humanitarian movements on American life, especially on the colonial South. Address: 102 Magnolia Ave, Richmond, Ky. 40475.

KEENAN, PROF. BOYD R(AYMOND), b. Parkersburg, W.Va, June 29, 28; m. 51; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Kentucky, 49, M.A, 57; Merriam fel, Illinois, 58-59, Ph.D.(polit. sci), 60. State ed, Herald, Ky, 50-52; news ed, Kentucky, 52-56, dir. news, 56-57; asst, Illinois, 57-58; asst. to dir, Cmt. Inst. Coop, Big Ten Univs. Coop. Proj, 59-60; asst. prof. polit. sci, Marshall, 60-62; vis. prof. & assoc. dir. cmt. inst. coop, Purdue, 62-64, prof. POLIT. SCI. & head dept, 64-67; PROF, ILLINOIS, CHICAGO, 67- Polit. Sci. Asn. Politics and administration of scientific and educational institutions. Publ: Science and the university, Columbia, 66; Big ten harmony: academic style, J. Higher Ed; The midwest's CIC:

experiment in regional cooperation, Pub. Admin. Rev, 3/63. Address: Dept. of Political Science, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

KEENAN, DR. JAMES J(OSEPH), b. New York, N.Y, Oct. 13, 31; m. 60; c. 4. BEHAVIORAL SCIENCE, PSYCHOLOGY. A.B, Manhattan Col, 53; M.A, Fordham, 55; Ph.D.(psychol), Columbia, 64. Res. asst, Fordham, 53-54; staff psychologist, Vet. Admin, New York, 54-55; sr. res. assoc, Inst. Res. Human Rels, 55-57; Appl. Psychol. Serv, 57; sr. assoc, DUNLAP & ASSOCS, INC, 57-59, sr. scientist, 59-65, MANAGING SCIENTIST PSYCHOL, 65- Assoc. prof. mgt, N.Y. Univ, 64-; prof. human commun. & psychol, Fairfield, 66- Consult. motivation res, Am. Heart Asn, 66- Mem. bd. sci. adv, Muzak Corp, 67- U.S.N, 55-57, Comdr. Psychol. Asn; Soc. Training & Develop; Int. Ergonomics Asn; Human Factors Soc; Interam. Soc. Psychol. Professional and scientific research on human performance interactions: interpersonal, man-machine, person-organization and person-ambient conditions; worker and consumer psychology in complex systems. Publ: Handbook for the assessment of human performance in complex systems, U.S. Air Force Handbook, 65; Test and evaluation, In: Human engineering guide to equipment design, McGraw, 68. Address: Dunlap & Associates, Inc, One Parkland Dr, Darien, Conn. 06820.

KEENE, DR. C(HARLES) MANSEL, b. Roseville, Calif, Jan. 20, 12; m. 38; c. 2. PUBLIC ADMINISTRATION, PSYCHOLOGY. A.B, Stanford, 33, Victor fel, 34-35, univ. fel, 35-36, Ph.D, 51. From asst. to instr. psychol, Stanford, 33-36; psychologist & statistician, Univ. High Sch. Study Adolescents, Calif, 36-38; instr. psychol. & counsr, Sacramento Jr. Col, 38-42; chief, salary & wage admin, Region V, Off. Secy. War, 42-44; spec. rep, overseas br, 44; chief classification, region XII, U.S. Civil Serv. Cmn, Calif, 44-45, dep. dir, 55-56, chief standards div, D.C, 56-61; dir. personnel, STATE COLS. BD. TRUSTEES, CALIF, 61-62, dean FACULTY & STAFF AFFAIRS, 62, ASST. CHANCELLOR, 62- Lectr. exten, div, California, 52-55; Southern California, 55-56, 62-65; American Univ, 56-60; vis. prof. Fla. State, 58; George Washington, 61. Mem. Gov. Conf. Mgt. Employee, Calif, 61-66, Gov. Cmt. Human Rights, 66-67. U.S. Civil Serv. Cmn. awards, 54, 56, 59. Soc. Personnel Admin.(pres, 59-60); Soc. Pub. Admin.(v.pres, 64-65, pres, 65-66). Public administration; personnel; position classification; adolescents; mental development; word association. Publ: Mental status as related to puberty praecox, Psychol. Bull, 34: 123-133; Classification standards for the personnel function, Personnel Admin, 26: 124-128; Such keen and delicate instruments, Teachers Col. Record, 65: 250-256. Address: State College Board of Trustees, 5670 Wilshire Blvd, Los Angeles, Calif. 90036.

KEENE, DR. CLIFFORD H(ENRY), b. Buffalo, N.Y, Jan. 28, 10; m. 34; c. 3. MEDICAL ADMINISTRATION. A.B, Michigan, 31, M.D, 34, M.S, 38. Instr. surg, Michigan, 37-42, path, 46-54; ADMINSTR, KAISER FOUND. HOSPS, 54-, PRES, KAISER HOSPS. & HEALTH PLAN, 60- Med. dir, Kaiser-Frazer Corp, 46-54. Mem. vis. cmt, sch. med, Stanford, 66-; sch. pub. health, Harvard, 67-; Nat. Manpower Cmn-Presidential Panel for For. Med. Grads, 66- Rosenau lect, Harvard, 64. Med.C, U.S.A, 42-46, Lt. Col. Am. Med. Asn; Pub. Health Asn; Hosp. Asn; Col. Surg; Royal Soc. Health. Address: Kaiser Center, 300 Lakeside Dr, Oakland, Calif. 94604.

KEENE, DR. DAVID SHANKLAND, b. New York, N.Y, May 5, 32; m. 67. POLITICAL SCIENCE. B.A, Bowdoin Col, 53; M.A, Princeton, 57, Ph.D.(polit. sci), 61. Asst. prof. POLIT. SCI, Union Col, 59-64; Vermont, 64-66; ASSOC. PROF, INDIANA UNIV. PA. 66- U.S.A, 53-55. Polit. Sci. Asn. Religion and politics; problems of church and state. Address: Dept. of Political Science, Indiana University of Pennsylvania, Indiana, Pa. 15701.

KEENER, DR. ORRIN L(OUIS), b. Thompson, Ohio, Aug. 19, 93; m. 21, 65; c. 4. GEOGRAPHY. A.B, Oberlin Col, 17; A.M, Western Reserve, 28, Ph.D, 56. Secy, Cent. YMCA, Ohio, 19-21; prin, Country Life Acad, N.C, 21-23; from asst. prof. to prof. soc. studies, Berea Col, 23-62, part time teaching, 62-64: chmn, Madison County Develop. Asn, 64-67; asst, kindergarten for underprivileged children, 66-67; COUNSELING, 67- U.S.A, 18-19. Publ: Struggle for equal opportunity; Did Cromagnon man develop on Plato's Atlantis during the last Ice Age?; Was the wisdom of ancient Egypt imported from there?. Address: 105 Crescent Dr, Berea, Ky. 40403.

KEEPPER, DR. W(ENDELL) E(DGAR), b. Hillsboro, Ill; m. 34; c. 4. AGRICULTURAL ECONOMICS. B.S.A, Illinois, 34; M.S.A, Cornell, 36, Ph.D. (farm mgt), 38. Asst. prof. LAND ECON, Pa. State, 38-40, assoc. prof, 41-43, PROF, 43-50; SOUTHERN ILLINOIS, 50-, DEAN SCH. AGR, 55-, chmn. dept. agr, 50-53, dir. div. rural studies, 53-55. Agr. officer, Food & Agr. Orgn, UN, Venezuela, 56, Italy, 60-62, consult, Iran, 65. Consult, Inter-Am. Inst. Agr. Sci, Costa Rica, 48-49; Spec. Fund UN, Boliva, S.Am, 64; Int. Bank Reconstruct. & Develop, Venezuela, 66. Agr. Econ. Asn. Farm management; land economics; agricultural marketing. Publ: Co-auth, Costs and labor used in hay harvesting by various methods & Economic classification of the land, Blair County, Pennsylvania, Bull. Pa. Agr. Exp. Sta; Economics of land utilization for Steuben County, New York, Bull. Cornell Agr. Exp. Sta. Address: School of Agriculture, Southern Illinois University, Carbondale, Ill. 62901.

KEESECKER, DEAN WARD W, Polit. Sci, see 10th ed, Soc. & Behav. Vols.

KEESEY, DR. RICHARD E(RMINE, II), Physiol. & Comp. Psychol, see 11th ed, Phys. & Biol. Vols.

KEESEY, DR. Ü(LKER) TULUNAY, b. Ankara, Turkey, Oct. 18, 32; m. 59. EXPERIMENTAL PSYCHOLOGY. B.A, Mt. Holyoke Col, 55; M.A, Brown, 57, Ph.D, 59. Asst. psychol, Brown, 55-59, res. assoc, 59-60; jr. res. psychologist, California, Los Angeles, 60-62; instr. SURG, MED. SCH, WISCONSIN, MADISON, 62-65, ASST. PROF, 65- Psychol. Asn; Phys. Soc. Effects of involuntary eye movement on various visual phenomena; acuity and brightness discrimination; physiology of vision. Publ: Co-auth, Visual effects of varying the extent of compensation for eye movements & Appearance of mach band with a motionless retinal image, J. Opt. Soc. Am; Fluctuations in target visibility as related to the occurrence of the alpha component of the electroencephalogram, Vision Res, 67. Address: 5701 S. Hill Dr. Madison, Wis. 53705.

KEESING, DR. ROGER M, b. Honolulu, Hawaii, May 16, 35; m. 56; c. 3. ANTHROPOLOGY. A.B, Stanford, 56; Woodrow Wilson fel, Harvard, 56-57, Nat. Sci. Found. fel, 60-62, Nat. Inst. Ment. Health fel, 62-65, M.A, 63, Ph.D.(soc. anthrop), 65. Acting asst. prof. ANTHROP, CALIFORNIA, SANTA CRUZ, 65, ASST. PROF, 66- Ford Found. int. comp. grant, 65-68; Soc. Sci. Res. Coun. faculty res. grant, 66-67; Nat. Sci. Found. res. grant, 68- U.S.A.F, 57-60, Res, 60-, Capt. Anthrop. Asn. Social organization; culture and cognition; linguistics. Publ: Kwaio kindreds, Southwest. J. Anthrop, 66; Statistical models and decision models of social structure: a Kwaio case, 67 & Step kin, in-laws, and ethnoscience, 68, Ethnology. Address: 738 Pacheco Ave, Santa Cruz, Calif. 95060.

KEEZER, DR. DEXTER M(ERRIAM), b. Acton, Mass, Aug. 24, 95; m. 27; c. 2. ECONOMICS. A.B, Amherst Col, 20; A.M, Cornell, 23; Ph.D, Brookings Inst, 25; LL.D, Amherst Col, 38, Mills Col, 40, Macalester Col, 57, Elmira Col, 59, Miami (Ohio), 59, Monmouth Col, 62; L.H.D, Clarkson Tech, 55. Reporter, Denver Times, 20-21; instr. econ, Cornell, 22-23; asst. prof, Colorado, 23-24; assoc. prof, North Carolina, 26-27; correspondent, Wash. Bur, Scripps-Howard Newspapers, 27-28; vis. lectr. citizenship, Dartmouth Col, 28-29; assoc. ed, Baltimore Sun, 29-33; exec. dir. consumers' adv. bd, Nat. Recovery Admin, 33-34; pres, Reed Col, 34-42; adv. econ, U.S. Mission Econ. Affairs, Eng, 42-43; pub. mem, Nat. War Labor Bd, 44-45; assoc. dir. dept. econ, McGRAW-HILL PUB. CO, 45, dir. dept, 46-60, v.pres, 53-60, dir, 57, ADV. ECON, 60- Mem, Conf. Bus. Econ. U.S.A, 17-19. Econ. Asn; Statist. Asn; Asn. Bus. Econ. Publ: Making capitalism work; New forces in American business; Are we slaves of some defunct economist? Address: McGraw-Hill Publishing Co, 330 W. 42nd St, New York, N.Y. 10036.

KEFFER, KARL K(AY), JR, b. Des Moines, Iowa, Oct. 5, 19; m. 44; c. 2. GEOGRAPHY. B.A, Drake, 42, M.A, 50; M.A, Iowa, 54. Advert. rep, Meredith Pub. Co, Iowa, 47-50; res. statistician geog, ST. LOUIS-SAN FRANCISCO RWY. CO, 54-65, RESOURCE SPECIALIST, 65- U.S.M.C, 42-45, Maj. Asn. Am. Geog; Soil Conserv. Soc. Am. Industrial plant location and allied field of resources; conservation; quantitative market analysis. Publ: Original land entry in Eastern Iowa; Study of the farm press and conservation, 1933-1941; Continuing series of industrial site and area development studies, St. Louis-San Francisco Rwy. Co, 54- Address: 12293 Partridge Run Dr, Florrisant, Mo. 63033.

KEGELES, DR. S. STEPHEN, Soc. Psychol, see 10th ed, Soc. & Behav. Vols. Latest known address: 1120 Olivia St, Ann Arbor, Mich. 48104.

KEHM, DR. FREDA S, b. Chicago, Ill; m. 16, 42; c. 2. SOCIOLOGY. B.A, Illinois, 16; M.A, South Dakota, 35; Ph.D.(sociol, soc. work, pub. admin), Northwestern, 41. Exec. dir, State Child Welfare Cmn, S.Dak, 31-33; dist. supvr, Fed. Emergency Relief Admin, 33-34; instr. soc. work, South Dakota, 34-35; from instr. to assoc. prof. sociol. & anthrop, Carleton Col, 35-42, chmn. dept, 40; dir. surv. needs children in wartime, City Sioux Falls, S.Dak, 43; pub. rels, consult, Ill, 44-47; state dir, Planned Parenthood League, 47-48; dir, Asn. Family Living, 48-65; CHILD DEVELOP. CONSULT, DAILY RADIO PROG, CALL DR. KEHM, 62- Acting dir, S.Dak. Pub. Health Asn, 33-34; lectr, Northwestern, 56- Mem. adv. coun, reference & res. prog, G.D. Searle & Co, 64-; bd. gov, Nat. Forum Found. Fel. Sociol. Asn; Acad. Polit. & Soc. Sci; Asn. Marriage Counsr; Nat. Coun. Family Rels. Family; child development and welfare. Publ: Let children be children, Asn. Press, 68; Family life education-future tense, J. Ed. Res; co-auth, Your child and the people around him. Address: Apt. 1504, 1360 Lake Shore Dr, Chicago, Ill. 60610.

KEHOE, THOMAS F(RANCIS), b. Janesville, Wis, Nov. 29, 26; m. 56; c. 3. ANTHROPOLOGY. A.B, Beloit Col, 51; A.M, Washington (Seattle), 57; Harvard, 57-58, 60-61. Researcher archaeol, field sch, Beloit Col, 48, asst, Logan Mus, 50; researcher Mo. Basin survs, Smithsonian Inst, 50; field asst. & cartographer, archaeol. exped, State Mus, Wash, 51, res. assoc. & lab. asst. archaeol, 52; curator archaeol. & asst. dir, Mus. of Plains Indian, U.S. Indian Serv, 52-54, dir, 54-59; prov. archaeologist, Sask. Govt. & curator archaeol. & ethnol, Sask. Mus. Natural Hist, 59-65; dir, Nebr. State Hist. Soc. Mus, 65-66; RES. ASSOC. ARCHAEOL, ANTHROP. LAB, NEBRASKA, 66- Hill Family Found. res. grant, 54, 55, 59. Assoc, Current Anthrop. U.S.A, 45-46. Fel. Anthrop. Asn; Soc. Archaeol. Archaeology and ethnology of the plains and woodlands of North America; bison drive sites; Tipi rings; boulder effigies and configurations. Publ: Stone Tipi Rings in north-central Montana and the adjacent portion of Alberta, Canada, Bur. Am. Ethnol. Bull; The small side-notched point system of the Northern Plains, Am. Antiquity, 10/66; The boarding school bison drive site, Plains Anthropologist, 3/67. Address: B-13 Burnett Hall, University of Nebraska, Lincoln, Nebr. 68508.

KEHRLI, PROF. HERMAN, b. Ore, Feb. 14, 02; m. 28; c. 2. PUBLIC ADMINISTRATION. A.B, Reed Col, 23; A.M, Minnesota, 33; Rockefeller traveling fel, 39-40. Exec. secy, City Club, Portland, Ore, 28-32; asst. prof. POLIT. SCI, OREGON, 35-41, assoc. prof, 41-66, PROF, 66-, RES. ASSOC, 67-, dir. bur. munic. res. & serv, 33-67, admin. analyst, bur. budget, 41-43. Resident consult, Littauer Sch, Harvard, 39-40. Polit. Sci. Asn; Soc. Pub. Admin; Govt. Res. Asn.(award, 35); Acad. Polit. & Soc. Sci. Local government; public administration and finance. Address: Dept. of Political Science, University of Oregon, Eugene, Ore. 97403.

KEILSON, DR. JULIAN, Mathematical Physics, see 11th ed, Phys. & Biol. Vols. and Suppl. IV.

KEIPER, PROF. JOSEPH S, b. Packerton, Pa, Mar. 11, 17; m. 48; c. 2. ECONOMICS. Ph.B, Muhlenberg Col, 36; M.B.A, Pennsylvania, 37; Ph.D, N.Y. Univ, 47. PROF. ECON, GRAD. SCH. BUS, N.Y. UNIV, 45- Consult, Commerce & Indust. Asn, N.Y, 53-55; Hanover Bank N.Y, 56-57; New York Tel. Co, 57-; Consol. Edison Co, 61-66. Econ. Asn. Pricing; history of thought; social insurance and public utilities. Publ: Forces that spiral workmen's compensation costs; Studies in workmen's compensation; Theory and measurement of rent. Address: 17 Holden Lane, Madison, N.J. 07940.

KEIR, PROF. MALCOLM, Econ, see 10th ed, Soc. & Behav. Vols, deceased 64.

KEIRSTEAD, PROF. B(URTON) S(EELY), b. Woodstock, N.B, Nov. 17, 07. ECONOMICS. B.A, New Brunswick, 28, LL.D, 49; B.A, Oxford, 31. Prof. econ. & polit. sci, New Brunswick, 31-42; Bronfman prof, McGill, 42-46, Dow prof. econ, 46-54; PROF. POLIT. ECON, TORONTO, 54- Vis. prof, Arizona, 37-38. Fel. Royal Soc. Can; Can. Polit. Sci. Asn. Theory; industrial concentration in Canada; Province of Newfoundland on the financial terms of Union. Publ: Theory of economic change; Essay on the theory of profits; Capital, interest and profit. Address: Dept. of Political Economy, University of Toronto, Toronto, Ont, Can.

KEISER, PROF. NORMAN F, b. Scranton, Pa, Mar. 20, 30; m. 52; c. 1. ECONOMICS. B.S, Bloomsburg State Col, 50; M.A, Scranton, 51; D.S.Sc, Syracuse, 54. Asst. instr. citizenship, Syracuse, 52-53; instr. econ, introd. to soc. sci. & govt, State Univ. N.Y. Col. Brockport, 53-54; instr. soc. sci, Mich. State, 54-56; prof, State Univ. N.Y. Col. Oswego, 56-61; assoc. prof. ECON, SAN JOSE STATE COL, 61-64, PROF, 64-, CHMN. DEPT, 65- Am. Econ. Asn; Royal Econ. Soc; Finance Asn. Fiscal policy; macroeconomics. Publ: Macroeconomics, fiscal policy and economic growth, 64 & Economics: analysis and policy, 65, Wiley; Development of the concept of automatic stabilizers, J. Finance. Address: 15400 Hume Dr, Saratoga, Calif. 95070.

KEISLAR, PROF. EVAN ROLLO, b. Mussoorie, India, Aug. 8, 13; U.S. citizen; m. 48; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Col. of Pac, 33; M.A, Pac. Sch. Religion, 36; Ph.D, California, Berkeley, 44. Res. assoc, Col. Entrance Exam. Bd, 45-46; instr. psychol, Princeton, 46; asst. prof. ed, Tufts, 46-48; asst. prof. ED. PSYCHOL, CALIFORNIA, LOS ANGELES, 48-54, assoc. prof, 54-61, PROF, 61- Psychol. Asn; Ed. Res. Asn. Publ: Co-ed, Learning by discovery: critical appraisal, Rand McNally, 66. Address: Dept. of Education, University of California, Los Angeles, Calif. 90024.

KEISTER, PROF. ALBERT S(AMUEL), Econ, see 10th ed, Soc. & Behav. Vols.

KEITH, PROF. E(DWARD) GORDON, b. Brockton, Mass, July 8, 05. PUBLIC FINANCE. A.B, Amherst Col, 27; Ph.D, Harvard, 37. Instr. econ. & tutor hist, govt. & econ, Harvard, 35-38; res. assoc, Nat. Bur. Econ. Res, 38-39; asst. prof. FINANCE, WHARTON SCH. FINANCE & COMMERCE, PENNSYLVANIA, 39-46, assoc. prof, 46-51, PROF, 51-, ASSOC. DEAN, 60- Economist, div. tax res, U.S. Dept. Treas, 41-47, asst. dir, 45-47; lectr, Swarthmore Col, 47-49. Econ. Asn; Finance Asn. Business taxation. Address: Dept. of Finance, University of Pennsylvania, Philadelphia, Pa. 19104.

KEITH, DR. IAN F(YVIE), Econ, see 10th ed, Soc. & Behav. Vols.

KEITH, DR. JOHN P(IRIE), b. Windsor, Ont, May 17, 21; nat; m. 48; c. 2. PUBLIC ADMINISTRATION. B.A, Arizona, 45; M.P.A, Wayne, 46; D.P.A, Inst. Pub. Admin, 52. Dean lower sch, South. Ariz. Sch. for Boys, 47-48; soc. sci. res. assoc, inst. pub. affairs, Texas, 48-51; sr. assoc, Citizens Res. Coun. of Mich, 51-53; Nat. Munic. League, N.Y, 53-56; asst. dir, Am. Soc. Pub. Admin, 56-59; exec. dir, REGIONAL PLAN ASN, 59-64, EXEC. V.PRES, 64- Consult, State Fiscal Rels. Cmt, New York, 56, mem. State Pub. Affairs Cmt. Polit. Sci. Asn; Soc. Pub. Admin; Govt. Res. Asn. Intergovernmental relations; state government. Publ: City and county home rule in Texas; Methods of constitutional revision; Public relations program for a citizen committee. Address: Regional Plan Association, 230 W. 41st St, New York, N.Y. 10036.

KEITH, PROF. ROBERT ALLEN, b. Brea, Calif, Mar. 16, 24; m. 49; c. 2. PSYCHOLOGY. B.A, California, Los Angeles, 48, M.A, 51, Ph.D.(psychol), 53. Extern PSYCHOL, Los Angeles Psychiat. Servs, 50-51, asst, 51-53; asst. prof, CLAREMONT GRAD. SCH, 53-60, assoc. prof, 60-66, PROF, 66- Res. fel, sch. pub. health, Harvard, 60-61; vis. scholar, inst. ed, London, 67-68. Consult, Casa Colina Rehab. Center. Dipl. Am. Bd. Exam. Prfnl. Psychol, 62. U.S.N.R, 43-46, Lt.(jg). Psychol. Asn. Psychological factors in physical disability. Address: Dept. of Psychology, Claremont Graduate School, Claremont, Calif. 91711.

KEITH-SPIEGEL, DR. PATRICIA C, b. Glendale, Calif, Mar. 16, 39; m. 66. PSYCHOLOGY. B.A, Occidental Col, 61; Nat. Defense Ed. Act fel, Claremont Grad. Sch. & Grad. Center, 61-64, M.A, Ph.D.(psychol), 68. Res. asst. PSYCHOL, Vet. Admin. Hosp, Brentwood, 64-66; ASST. PROF, SAN FERNANDO VALLEY STATE COL, 66- Res. assoc, Vet. Admin. Hosp, Brentwood, 66- Ethics in psychological research; suicide research; drug research; experimental investigations of sense of humor; programs in use of student volunteers in mental hospitals. Publ: Co-auth, The effects of carphenazine, trifluoreparazine and chlorpromazine on ward behavior, physiological functioning and psychological test scores in chronic schizophrenic patients, J. Nervous & Ment. Disease, 144: 111-116, Affective states of patients immediately preceding suicide, J. Psychiat. Res, 5: 89-93 & Why we came back: a study of 100 readmitted mental patients, Ment. Hyg, (in press). Address: Dept. of Psychology, San Fernando Valley State College, Northridge, Calif. 91326.

KELL, PROF. LEONE B, b. Dighton, Kans, Nov. 27, 98; m. 24; c. 3. FAMILY ECONOMICS. B.S, Kansas State, 23, M.S, 28; Cornell, 37-38; Stanford, 46. Teacher high sch, Kans, 23-24; asst. child develop, KANSAS STATE, 27-29, instr, 30-37, asst. prof, 38-40, assoc. prof. FAMILY & CHILD DEVELOP, 40-46, prof, 47-65, EMER. PROF, 65-, family economist, agr. exp. sta, 53-65. Prof. & missionary, Kobe Col, Japan, 67- Home Econ. Asn; Soc. Res. Child Develop. Educational sociology; family and child development; parent-child relationships. Publ: Co-auth, Kell-Hoeflin incomplete sentence blank: youth-parent relations, Monogr. Soc. Res. Child Develop; Relation between mothers' child-rearing ideologies and their children's perception of maternal control, Child Develop. & Reaching low income students in home economics classes, Marriage & Family Living, 25: 214-218. Address: Kobe College, Nishinomiya City, Hyogo-ken, Japan.

KELLAR, PROF. I. H(AROLD), b. New York, N.Y, July 8, 16; m. 47; c. 1. BUSINESS MANAGEMENT. B.S, N.Y. Univ, 38, M.A, 40, Ed.D, 51, Ph.D, 56. Instr. for. trade, N.Y, Univ, 38-41; prod. engr, Gen. Motors Corp, 41-43; from instr. to assoc. prof. INT. TRADE & MKT. MGT, BARUCH COL, CITY UNIV. NEW YORK, 47-67, PROF, 67- Res. consult, U.S. For. Affairs Cmt, 56. Mem, Coun. Latin Am. Affairs. U.S.A, 43-46, Capt. Asn. for Ed. Int. Bus; Mkt. Asn; Econ. Asn. International trade; marketing management. Publ: Gold! end of buying in sight & Warning! the collapse of the European common market is inevitable, Tradescope; Study to determine sociological and economic effects of U.S. technical and economic assistance. Address: Baruch College, City University of New York, 17 Lexington Ave, New York, N.Y. 10010.

KELLAR, PROF. JAMES H(ARLEY), b. Argos, Ind, Feb. 1, 22; m. 46; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Indiana, 48, M.A, 53, Ph.D.(anthrop), 56. Archaeologist, Cincinnati Mus. Natural Hist, 55-56; curator, Allen County-Ft. Wayne Hist. Mus, 56-57; instr. ANTHROP, Georgia, 57-58, asst. prof, 58-60; INDIANA, 60-64, ASSOC. PROF, 64-, DIR. GLENN A. BLACK LAB. ARCHAEOL, 66- Archaeologist, Ind. Hist. Soc, 65- U.S.N.R, 42-45. Fel. Anthrop. Asn; Soc. Archaeol; Am. Indian Ethnohist. Conf. Publ: Co-auth, Excavation at the Mandeville Site, Clay County, Georgia; Atlatl in North America; C.L. Lewis stone mound and the stone mound problem. Address: Dept. of Anthropology, Indiana University, Bloomington, Ind. 47401.

KELLEHER, PROF. JAMES P, Eng. Lit, Counseling, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

KELLEHER, DR. ROGER T(HOMSON), Pharmacol, see 11th ed, Phys. & Biol. Vols.

KELLER, DR. CHARLES M, b. Long Beach, Calif, Nov. 25, 36; m. 60; c. 1. ANTHROPOLOGY. B.Mus, Iowa, 59; Ph.D.(anthrop), California, Berkeley, 66. Anthropologist, Robert H. Lowie Mus Anthrop, California, Berkeley, 66-67; ASST. PROF. ANTHROP, ILLINOIS, URBANA, 67- Anthrop. Asn. African prehistory; non-industrial technology. Address: Dept. of Anthropology, University of Illinois, Urbana, Ill. 61801.

KELLER, DR. E(LVIN) DUWAYNE, b. Altoona, Pa, Apr. 3, 27; m. 48; c. 4. CHILD PSYCHOLOGY & DEVELOPMENT. B.S, Findlay Col, 56, M.A, Iowa, 59, Ph.D.(child psychol. & develop), 61. Res. & clin. asst, State Psychopathic Hosp, State Univ. Iowa, 60-64; asst. prof. CHILD DEVELOP, CONNECTICUT, 61-65, ASSOC. PROF, 65- Psychol. consult, proj. head start, U.S. Off. Econ. Opportunity, 65-, tech. asst. community action progs, 67- U.S.N, 45-52. Psychol. Asn; Soc. Res. Child Develop. Parent-child relations and their influence on personality development; relations between anxiety and selected behavioral variables. Publ: Co-auth, Nurturance in preschool children and its relation to dependency, Child Develop, 31: 681-689, Changes in children's verbal behavior as a function of social approval and manifest anxiety, J. Abnorm. & Soc. Psychol, 65: 54-57 & Anxiety, intelligence and scholastic achievement in junior high school children, Ed. Res, 58: 167-170. Address: 4 Holly Lane, Storrs, Conn. 06268.

KELLER, DR. FRANK L(ŒUER), b. Highland Park, Ill, Mar. 27, 18; m. 52; c. 3. RESOURCE ECONOMICS. A.B. & Noyes scholar, Illinois, 40; fel, Northwestern, 40-41, 46-47; fel, Maryland, 47-49, Ph.D, 49. Chief Cent. Am. sect, Mil. Intel. Serv, D.C, 41-44, asst. mil. attache, Bolivia, 44-46; asst. prof, Rutgers, 49-50; PROF. ECON, TULANE, 50- Vis. prof, California, Berkeley, 64; Rafael Landivar Univ, 67. Consult, Nicaraguan Govt, 49; Tech. Coop. Admin, Bolivia, 51; U.S. Census Bur, 51; Pan-Am. Inst. Geog. & Hist, 51; Nat. Res. Coun, 51-53; Inst. Inter-Am. Affairs, 52-53; Orgn. Am. States, 62; UN, 62, 63; Agency Int. Develop, 64. U.S.A.R, 46-, Col. Asn. Am. Geog; Econ. Asn; Regional Sci. Asn. Economic development; resource analysis; Central American common market; technological transfer. Publ: Resources inventory; Institutional barriers to economic development; Odeca—common market experiment in underdeveloped area, J. Inter-Am. Studies, 4/63. Address: Dept. of Economics, Tulane University, New Orleans, La. 70118.

KELLER, DR. FRED S(IMMONS), b. Rural Grove, N.Y, Jan. 2, 99; m. 36; c. 2. PSYCHOLOGY. B.S, Tufts Col, 26; A.M, Harvard, 28, Ph.D.(psychol), 31. Instr. PSYCHOL, Colgate, 31-38; Columbia, 38-42, asst. prof, 42-45, assoc. prof, 46-49, prof, 49-64; Brasilia, 64; Arizona State, 64-67; RES. ASSOC, INST. BEHAV. RES, SILVER SPRING, 67- Fulbright lectr, Univ. São Paulo, Brazil, 61-62. President's Cert. Merit, 48. U.S.A, 17-19. Fel. Psychol. Asn; Soc. Exp. Psychol. Human and infra-human learning; behavior theory; development of new teaching system in psychology. Publ: Co-auth, Principles of psychology; Definition of psychology; Learning, Doubleday Papers. Address: 3229 Park View Rd, Chevy Chase, Md. 20015.

KELLER, DR. GORDON N, b. Brigham City, Utah, Mar. 15, 19; m. 46; c. 4. ANTHROPOLOGY, SOCIOLOGY. A.B, Utah, 41; M.A, Chicago, 49, Ph.D. (anthrop), 61. Asst. prof. ANTHROP. & SOCIOL, Wichita State, 50-59; ASSOC. PROF, Tulsa, 61-62; UTAH STATE, 62- Fel. Anthrop. Asn. Archeological research in eastern United States, Great Plains, Southwest and Great Basin; social anthropological research in Navaho culture. Address: Dept. of Sociology & Anthropology, Utah State University, Logan, Utah 84321.

KELLER, PROF. HORACE TAYLOR, JR, b. Philadelphia, Pa, Jan. 3, 21; m. 42. PSYCHOLOGY. B.S, West Chester State Col, 41; M.Ed, Temple, 52, Ed.D, 56. Teacher, high sch, Pa, 41-47; prfnl. dog handler, 47-50; dir. Allentown Unit, Tech. Inst, Temple, 50-54, coordinator instruct, 54-56; state pub. sch. psychologist, Del, 56-60; PROF. ED. PSYCHOL, GLASSBORO STATE COL, 60- U.S.N.R, 42-46, Lt. Psychol. Asn. Developmental psychology, especially child development and educational procedures and practices. Address: 16 Beaver Dr, Barrington, N.J. 08007.

KELLER, JOHN WALTER, b. Newport, Ky, Oct. 21, 30. CLINICAL PSYCHOLOGY. B.A, St. Pius Sem, 50; M.A, Loyola (Ill), 58, Ph.D.(psychol), 61. Clin. psychologist, Reiss Ment. Health Pavilion, N.Y, 60-61; INSTR. PSYCHOL. & CHMN. DEPT. & DIR. GUID. & COUNSELLING, THOMAS MORE COL, 61- Asst. pastor, St. James Church, Ludlow, Ky, 61; fel, St. Vincent's Hosp, New York, 61; psychologist, Cath. Soc. Bureau, 61-68. Psychol. Asn; Nat. Asn. Ment. Health. Theology; relationship of psychology and religion,

especially the role of the clergy in dealing with problems of mental health; psychological evaluation of religious by way of screening and individual and group therapy. Address: Thomas More College, P.O. Box 85, Ft. Mitchell, Ky. 41017.

KELLER, DR. MARY JANE CURRY, b. Brockway, Pa, Nov. 16, 33; m. 58. CLINICAL & DEVELOPMENTAL PSYCHOLOGY. B.S, Allegheny Col, 55; M.A, Mich. State, 56, Kappa Alpha Theta & univ. fels, & Ph.D.(psychol), 59. Asst. psychol, childrens psychiat. hosp, med. center, Michigan, 56-58; CLIN. PSYCHOLOGIST, div. spec. ed, Lansing Pub. Schs, 58-63; PSYCHOL. CONSULT. SERV, 63- Lectr, Mich. State, 59- Psychol. Asn. Acceptance of physical disability; sensory deprivation. Address: 615 Bailey St, East Lansing, Mich. 48823.

KELLER, SISTER MARY KENNETH, Comput. Sci, Math, see 11th ed, Phys. & Biol. Vols.

KELLER, DEAN ROBERT JOHN, b. White Bear, Minn, May 25, 13; m. 43; c. 2. EDUCATIONAL PSYCHOLOGY. B.E, Winona State Col, 37; M.A, Minnesota, 40, Ph.D, 47. Teacher, Wash. County Schs, Minn, 31-32; prin. & teacher, White Bear Beach Sch, 32-38; teacher, high sch, North St. Paul, Minn, 38-40; teacher & asst, col. ed, Minnesota, 40-42, 45-46; res. psychologist, Randolph Field & Lackland Air Force Base, 46-47; asst. prof. & assoc. dir, bur. inst. res, MINNESOTA, MINNEAPOLIS, 47-48, assoc. prof. & assoc. dir, 48-51, prof. ed. & dir, 51-56, prof. ed. & dir, univ. high sch, 56-64, PROF. ED. & DEAN COL. ED, 64- Carnegie vis. prof, Hawaii, 57-58. Dir, Gov. Cmt. Higher Ed, Minn, 56-57; dir. res, Legis. Interim Cmn. Higher Ed, 58-59; dir. Comprehensive Ed. Study of Kans, 58-60. V.chmn, res. & develop. cmt, Col. Entrance Exam. Bd, 63-66, chmn, 66- U.S.A.A.F, 42-45, 2nd Lt. Fel. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc; Ed. Res. Asn. Uses of closed circuit television in teacher education; higher education in Minnesota and Kansas; comparative teacher education. Publ: Co-auth, Junior colleges Minnesota, Comprehensive educational survey of Kansas & Education and economic growth, Upper Midwest Res. & Develop. Coun, 65. Address: 1603 Northrop St, St. Paul, Minn. 55108.

KELLER, PROF. SUZANNE, b. Vienna, Austria, Apr. 16, 29; nat. SOCIOLOGY. Ph.D, Columbia, 53. Vis. fel, center int. studies, Princeton, 53-54; res. assoc, Mass. Inst. Tech, 54-57; asst. prof, Brandeis, 57-60; vis. assoc. prof. sociol, Vassar Col, 62-63; Fulbright prof, Athens Tech. Inst, 63-65; res. assoc. soc. planning, Doxiadis Assocs, Greece, 65-67; PROF. SOCIOL, PRINCETON, 68- Sociol. Asn. Elites; social stratification; the family. Publ: Beyond the ruling class, 64 & The urban neighborhood, 68, Random. Address: Dept. of Sociology, Princeton University, Princeton, N.J. 08540.

KELLER, PROF. THOMAS F(RANKLIN), b. Greenwood, S.C, Sept. 22, 31; m. 56; c. 3. ECONOMICS. A.B, Duke, 53; M.B.A, Michigan, 57, Ph.D, 60. Asst. & instr. acct, Michigan, 55-59; asst. prof. acct. & finance, DUKE, 59-62, assoc. prof. ACCT, 62-67, PROF, 67- Vis. assoc. prof, Washington, 63-64; Carnegie-Mellon Univ, 66-67. U.S.A, 53-55. Am. Acct. Asn.(v.pres, 68-69); Financial Exec. Inst. Accounting theory, especially as applied to financial reporting and analysis; use of accounting data for purposes of selecting between alternatives. Publ: Co-auth, Intermediate accounting, 63, revised 68 & Advanced accounting, 66, McGraw; Accounting for corporate income taxes, Bur. Bus. Res, Univ. Mich, 61. Address: Dept. of Business Administration, Duke University, Durham, N.C. 27706.

KELLEY, DR. ANNE ESTELLE, b. Madison, Fla. POLITICAL SCIENCE. B.S, Fla. State, 54, M.S, 55, Ph.D, 61. Asst. prof. hist. & govt, Central Col. (Mo), 55-58; asst. govt, Fla. State, 60-61; asst. prof, Winthrop Col, 61-63, ASSOC. PROF. POLIT. SCI. & CHMN. DEPT, 63- Civilian mem, U.S. War Dept, D.C, N.J, Austria & Japan. With State Comptroller's Off, Fla. Polit. Sci. Asn; Acad. Polit. Sci. American government; comparative foreign government; theory of political behavior. Publ: Trends in policy preferences of American political parties, 1840-1960: a content analysis; Universities role in urban government, Fla. Planning & Develop, 12/66. Address: 630 Holland Ave, Temple Terrace, Fla. 33617.

KELLEY, DR. CHARLES RAY, b. Enid, Okla, Sept. 25, 22; m. 54; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Hawaii, 49; M.A, Ohio State, 50; Ph.D, New Sch. Soc. Res, 58. Res. assoc. eng. psychol, Dunlap & Assocs, Inc, 50-53; asst. prof. eng. psychol. & dir. div. appl. vision res, N.C. State Col, 53-57; dir. res. lab. ENG. PSYCHOL, DUNLAP & ASSOCS, INC, 57-63, CHIEF SCIENTIST, 63- Dir, Intersci. Res. Inst, 60-; adj. assoc. prof, N.Y. Univ, 60; vis. lectr, NATO, 67. Consult, Apollo & Gemini Manned Spacecraft Projs, 62; Air Force Manned Orbital Lab. Proj, 65. Mem. res. staff, Optometric Center, N.Y, 58. U.S.A.A.F, 42-45. AAAS; Psychol. Asn; Human Factors Soc; Inst. Elec. & Electronics Eng; Int. Ergonomics Asn. Manual control; visual perception; human performance measurement; philosophy and technology of man-machine relations; adaptive and predictive man-machine systems. Publ: Manual and automatic control, Wiley, (in press); Predictor instrument for manual control; Psychological factors in myopia. Address: Dunlap & Associates, Inc, 1454 Cloverfield Blvd, Santa Monica, Calif. 90404.

KELLEY, DR. DAVID H(UMISTON), b. Albany, N.Y, Apr. 1, 24; m. 58; c. 4. ANTHROPOLOGY. B.A, Harvard, 50, Ph.D, 57; Nat. Sch. Anthrop. & Hist, Mex. Fulbright res. fel, San Marcus Univ, Peru, 57-58; asst. prof. ANTHROP, Texas Tech. Col, 58-61, assoc. prof, 61-64; Nebraska, 64-68; PROF, CALGARY, 68- Fulbright teaching fel, Univ. of the Republic, Uruguay, 63. U.S.A.A.F, 42-45. Soc. Am. Archaeol; Anthrop. Asn. Ancient calendars; American Indian linguistics; decipherment of Maya hieroglyphs; pre-ceramic agriculture of Mexico and Peru; mythology; religious origins; nature of traditional evidence. Publ: Calendar animals and deities, Southwest. J. Anthrop; Quetzalcoatl and his coyote origins, El. Mex. Antiguo; The birth of the gods at Palenque, Estudios Cultura Maya, 66. Address: Dept. of Archaeology, Calgary University, Calgary, Alta, Can.

KELLEY, DWIGHT D, b. Ind, Feb. 21, 11; m. 34; c. 3. ECONOMICS. B.S, Butler, 33; A.M, Indiana, 39. With STATE DIV. EMPLOY. SECURITY, IND, 37-48, CHIEF OF RES, 48- Lectr, Indiana, 55-62. Mem. res. adv. cmt, U.S. Employ. Serv, 66- U.S.N.R, 44-46, Lt. Statist. Asn. Labor economics, economic statistics. Address: R.R. 1, Box 217, Pittsboro, Ind. 46167.

KELLEY, PROF. EUGENE J(OHN), b. New York, N.Y, July 8, 22; m. 46; c. 1. MARKETING. B.S, Connecticut, 45; M.Ed, Boston, 48, M.B.A, 49; Ph.D, N.Y. Univ, 55. Instr, Boston, 47; Babson Inst, 47-49; asst. prof. econ. & bus. admin, Clark, 49-55, assoc. prof, 55-56, dir. div. bus. admin, 53-56; vis. lectr, Harvard, 56-57; dir. mkt. mgt. prog, Mich. State, 57-59; prof. mkt. & assoc. dean grad. sch. bus. admin, N.Y. Univ, 59-63; RES. PROF. BUS. ADMIN, COL. BUS. ADMIN, PA. STATE, 63- Vis. lectr, Colorado, 58; dir, Atlantic Bank of New York, 61-64. Consult. Ed, J. Mkt, 67- Chmn. cmt. exam. col. level exam. mkt, Ed. Testing Serv, 66- U.S.A.A.F, 42-43. Mkt. Asn. Publ: Co-auth, Business administration: problems and functions; ed, Foundations of marketing series, 64- & auth, Marketing: strategy and functions, 65, Prentice. Address: Pennsylvania State University College of Business Administration, University Park, Pa. 16802.

KELLEY, PROF. HAROLD H(ARDING), b. Boise, Idaho, Feb. 16, 21; m. 42; c. 3. PSYCHOLOGY. A.B, California, 42, M.A, 43; Ph.D.(group psychol), Mass. Inst. Tech, 48. Asst, Mass. Inst, Tech, 46-48; study dir, res. center group dynamics, Michigan, 48-50; asst. prof, Yale, 50-55; from assoc. prof. to prof. lab. req. soc. rels, Minnesota, 55-61; PROF. PSYCHOL, CALIFORNIA, LOS ANGELES, 61- Psychol. Asn; Sociol. Asn. Small group behavior; communication and persuasion; social psychology. Publ: Co-auth, Communication and persuasion & The social psychology of groups. Address: Dept. of Psychology, University of California, Los Angeles, Calif. 90024.

KELLEY, SISTER HELEN, I.H.M, b. Cedar Rapids, Iowa, May 21, 25. SOCIOLOGY. B.A, Immaculate Heart Col, 47; M.A, St. Louis, 54, Ph.D.(sociol), 58; hon. LL.D, San Diego, 65. From instr. to assoc. prof. sociol, IMMACULATE HEART COL, 58-63, dean grad. sch, 60-63, PRES, 63- Consult, Radcliffe Inst. Independent Study. Sociol. Asn; Soc. Sci. Study Relig. Relation between occupation, mobility and illness. Publ: The incidence of hospitalized mental illness among religious sisters in the United States, 7/58 and Depression in the psychoses of members of religious communities of women, 11/61, Am. J. Psychiat. Address: Immaculate Heart College, 2021 N. Western Ave, Los Angeles, Calif. 90027.

KELLEY, PROF. H(ENRY) PAUL, b. Cleburne, Tex, July 4, 28; m. 49; c. 3. PSYCHOLOGY. B.A, Texas, 49, M.A.(ed. psychol), 51; M.A.(psychol), Princeton, 54, Ph.D.(psychol), 54. Personnel measurement & eval. psychologist, U.S. Dept. Air Force, 54; aviation exp. psychologist, U.S. Naval Sch. Aviation Med, 54-57; lectr. ED. PSYCHOL, Texas, 58-60, asst. prof, 60-61, assoc. prof, 61-64, lectr, 64-67, PROF, TEXAS, AUSTIN, 67-, DIR. MEASUREMENT & EVAL. CENTER, 67-, coordinator measurement serv, 58-64, regional dir, col. entrance exam. bd, 64-67. Psychomet. fel, Ed. Testing Serv, 51-54. Mem, coord. cmt. ed. improv. proj. & adv. cmt. proj. opportunity, Southern Asn. Cols. & Schs, 63- U.S.N.R, 54-57, Lt. AAAS; Psychol. Asn; Psychomet. Soc; Psychonomic Soc; Nat. Coun. Measurement in Ed; Ed. Res. Asn; Personnel & Guid. Asn; Asn. Higher Ed. Psychometrics; nature of human abilities; prediction of college success; academic placement of college students. Publ: Co-auth, Development and applications of tests of intellectual and special aptitudes, Rev. Ed. Res; Scale for self description, J. Clin. Psychol; auth, Memory abilities: a factor analysis, Psychomet. Monogr, 64. Address: P.O. Box 7246, Austin, Tex. 78712.

KELLEY, PROF. JAMES W, b. Addison, Pa, July 29, 11; m. 43; c. 2. ECONOMICS. A.B, Allegheny Col, 32; A.M, Pittsburgh, 34; Ph.D.(econ), Boston, 41. Instr. ECON, BOSTON, 36-39, asst. prof, 39-42, assoc. prof, 46-51, PROF, 51-, DEAN ED. PROGS, 58-, dir. bur. bus. res, 53-56. Regional price economist, U.S. Bur. Labor Statist, Mass, 42-45, asst. br. chief, Wash, D.C, 45-46. Consult, air materiel command, U.S. Dept. Air Force Hqs, Ohio, 52-53. Econ. Asn. Business fluctuations; economic base studies, including industrial development; industries. Publ: Massachusetts uprooted, population movements, 1940-1950, Boston Univ. Bus. Rev; Why industrial research?, Boston Bus; Analyzing your business, Wholesaler. Address: Dept. of Economics, Boston University, 685 Commonwealth Ave, Boston, Mass. 02215.

KELLEY, DR. JANE HOLDEN, b. Abilene, Tex, Aug. 31, 28; m. 58; c. 4. ANTHROPOLOGY, ARCHAEOLOGY. B.A, Tex. Tech. Col, 49; M.A, Texas, 51; E.D. Farmer scholar, Inst. Anthrop, Mexico, 52-53; Ph.D.(anthrop), Harvard, 66. Asst. prof. anthrop, Tex. Tech. Col, 57-58, 61-63; assoc. curator, mus, Univ. Nebraska, 64-68; ASSOC. PROF. ARCHAEOL, CALGARY, 68- Fel. Anthrop. Asn. Publ: The Bonnell site, 52 & Comments on the archaeology of the Llano Estacado, 64, Bull. Tex. Archaeol. Soc; The post classic stage in Meso-America, Kroeber Anthrop. J, 57. Address: Dept. of Archaeology, University of Calgary, Calgary, Alta, Can.

KELLEY, PROF. J(OHN) CHARLES, b. Era, Tex, Oct. 9, 13; m. 39, 50, 66; c. 3. ANTHROPOLOGY. B.A, New Mexico, 37; Thaw fel, Hemenway fel. & Winthrop scholar, Harvard, 43-45, Ph.D.(anthrop, archaeol. & ethnog), 48. Asst. prof. anthrop, Texas, 45-49, assoc. prof, 49-50; PROF. ANTHROP. & DIR. MUS, SOUTHERN ILLINOIS, 50- Res. grants-in-aid, Sch. Am. Res, 38, 39; Latin Am. Inst, Texas, 48, 49; Am. Asn. Adv. Sci, 51; Am. Philos. Soc, 52; Wenner-Gren Found. Anthrop. Res, Inc, 52, 54, 56; Nat. Sci. Found, 55, 61, 65. U.S.A, 45. Fel. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol.(2nd v.pres, 54). Archaeology and cultural history of northern Mexico, Texas and southwestern United States; ecology of man; cultural dynamics. Publ: Juan Sabeata and diffusion in aboriginal Texas; co-auth, The cultural sequence on the north central frontier of Mesoamerica, Actas y Memorias, 36th Congreso Internacional de Americanistas, Espana, Vol. I, Seville, 64; auth, Mesoamerica and the southwestern United States, In: Handbook of Middle American Indians, Vol. IV, Univ. Texas, 66. Address: Dept. of Anthropology, College of Liberal Arts, Southern Illinois University, Carbondale, Ill. 62903.

KELLEY, PROF. NOBLE H(ENRY), b. Thamesville, Ont, Aug. 10, 01; nat; m. 27; c. 1. PSYCHOLOGY. A.B, Iowa, 33, M.A, 35, Ph.D.(psychol), 36. Eastman fel, Iowa, 36-37; from asst. prof. to prof. psychol. & head dept, Louisville, 37-51, dir. psychol. servs. center, 46-51; prof. PSYCHOL. &

head dept, SOUTHERN ILLINOIS, 51-60, RES. PROF, 60- Consult. Mem. Ill. Psychiat. Training & Res. Authority, 56-65; adv. bd, Inst. Juvenile Res, 57-59; bd. dirs, Coun. Anal. Orgn. Struct, 66- Pres, Conf. State Psychol. Asns, 49-50; exec. officer, Am. Bd. Exam. Prfnl. Psychol, 51- Fel. Psychol. Asn. Personality theory; dynamics; psychotherapy. Publ: Manual for general psychology; Workbook in general psychology with laboratory studies; Study in presbycusis, auditory loss with increasing age and its effects on perception of music and speech, Arch. Otolaryngol. Address: Dept. of Psychology, Southern Illinois University, Carbondale, Ill. 62901.

KELLEY, PROF. PAUL LEO, b. Solomon, Kans, Dec. 13, 20; m. 45; c. 8. AGRICULTURAL ECONOMICS. B.S, Kansas State, 43, M.S, 46; Ph.D, Iowa State Col, 56. From asst. prof. agr. econ. & mkt. & asst. economist to PROF. AGR. ECON. & MKT. & ECONOMIST, AGR. EXP. STA, KANSAS STATE, 50-, ACTING HEAD DEPT. ECON, UNIV, 67- U.S. Dept. Agr. res. grant. Consult. to undersecy, U.S. Dept. Agr, summer, 67. U.S.N, 43-45. Agr. Econ. Asn; Econ. Asn. Agricultural marketing; methodology of productivity studies in agricultural marketing; firms. Publ: Co-auth, Short-run elasticities of supply for milk, 2/65 & Economic relationships of hay and concentrate consumption to milk production, 2/67, J. Farm Econ; co-auth, Selecting representative firms in linear programming, Tech. Bull. Address: Agricultural Experiment Station, Kansas State University, Manhattan, Kans. 66502.

KELLEY, PROF. PEARCE C(LEMENT), b. Chicago, Ill, Oct. 13, 95; m. 35; c. 1. BUSINESS ECONOMICS. A.B, California, 22, M.A, 24, Ph.D.(econ, bus), 30. Instr. bus. admin, California, 30-31; asst. prof, Utah, 31-32; from asst. prof. to assoc. prof. mkt. & head dept, Arkansas, 32-48; assoc. prof, Mississippi, 48-50; prof, Oklahoma, 50-65; RETIRED. State coordinator & res. consult, Ark, 38-42; consult, Okla, 50-; adv, Armed Forces & Marine Corps Insts, 54. U.S.A, 17-18. Econ. Asn; Mkt. Asn; Mgt. Asn. Small business or independent enterprise; retailing; consumer economics. Publ: How to organize and operate a small business; Retailing: basic principles, Consumer economics. Address: 1310 Sunset Dr, Norman, Okla. 73069.

KELLEY, PROF. STANLEY, JR, b. Detroit, Kans, Dec. 7, 26. POLITICAL SCIENCE. A.B, Kansas, 49, M.A, 51; Rome, Italy, 53-54; Ph.D.(polit. sci), Hopkins, 55. Instr. polit. sci, Hopkins, 51-53; res. asst. govt, Brookings Inst, 56-57; asst. prof. POLIT. SCI, PRINCETON, 57-62, assoc. prof, 62-64, PROF, 64- Vis. asst. prof, Hopkins, 59. U.S.A, 45-46. Polit. Sci. Asn. Political campaigning; elections; party politics. Publ: Professional public relations and political power; Political campaigning. Address: Dept. of Politics, Princeton University, Princeton, N.J. 08540.

KELLEY, PROF. TIM K, b. Colfax, Iowa, July 20, 07; m. 30. GEOGRAPHY. B.S, Washington (Seattle), 36, M.A, 40, Ph.D, 46. From asst. prof. to PROF. GEOG, COLORADO, 46- Fulbright lectr, Univ. Queensland, Australia, 52-53. Asn. Am. Geog; Conserv. Ed. Asn; Nat. Coun. Geog. Ed. Western land use; Australia; New Zealand. Publ: Official Colorado fishing and hunting guide; Living in Colorado; Expanding Queensland sugar industry. Address: 774 15th St, Boulder, Colo. 80302.

KELLEY, DR. WILLIAM T(HOMAS), b. Jersey City, N.J, Feb. 4, 17; m. 45; c. 1. MARKETING. B.A, Toronto, 39; M.B.A, Pennsylvania, 41, Ph.D. (econ), 51. Instr. econ, South Carolina, 41-42; assoc. economist, War Shipping Admin, 42-43; instr. mkt, Wharton Sch, PENNSYLVANIA, 46-51, asst. prof, 51-55, ASSOC. PROF, 55-, commun, Annenberg Sch. Commun, 64-68. Sears Roebuck fel, 52; Young & Rubicam fel, 53; Royal Econ. Soc. fel, 54; Pub. Serv. Elec. & Gas Co. fel, 59; vis. scholar, California, Berkeley, 63; vis. prof, Lancaster, 66-67; fel, Inst. Sci. Bus, Bradford, Eng, 67. Consult, U.S. Dept. Army, 55-57. Hess Mem. Award, 54. U.S.A, 43-46. Am. Mkt. Asn; Am. Econ. Asn; Royal Econ. Soc. Advertising management; interdisciplinary areas of distribution; military intelligence. Publ: Co-auth, The management of promotion, Prentice-Hall, 63; auth, Marketing intelligence, Staples Press, London, 67; Marketing intelligence for top management, J. Mkt, 10/65. Address: 311 Woodside Ave, Narberth, Pa. 19072.

KELLNER, DR. HAROLD N, b. Baltimore, Md, Jan. 2, 36; m. 57; c. 2. CLINICAL & SOCIAL PSYCHOLOGY. B.S, Howard, 59; M.A, Clark, 62, Ph.D, 65. Teaching asst. statist, Clark, 59-64; instr. PSYCHOL, BOSTON COL, 64-65, ASST. PROF, 65- Consult, div. legal med, div. youth serv, Mass. Dept. Ment. Health, 65-; div. voc. rehab, R.I. Dept. Soc. Welfare, 66-; Archdiocesan Cmn. Human Rights, 66-; Vol. Ed. Exchange, Inc, 66- AAAS; Psychol. Asn. Social change, especially Negro-white relations in the urban setting; delinquency and training institutions; cognitive development and creativity; sensitivity training, community and organizational development. Publ: Co-auth, Mechanisms of defense: an alternate response, J. Personality, 64; Schedules of reinforcement and individual differences in learning and recall, Psychol. Reports, 65; Creativity in a two-choice probability situation, J. Gen. Psychol, 67. Address: Dept. of Psychology, Boston College, Chestnut Hill, Mass. 02167.

KELLOGG, LESTER S, b. Terre Haute, Ind, July 24, 03; m. 28; c. 1. ECONOMICS. A.B, Northwestern, 27, M.A, 28; Chicago, 29-32. From instr. to asst. dean sch. bus, Buffalo, 31-35; asst. prof. statist, Ohio State, 35-46; economist, Deere & Co, 58-66; CONSULT. CORP. ECONOMIST, 66- Lectr, Wofford Col, 67-68. Prin. economist, defense cmn, Off. Prod. Mgt. & War Prod. Bd, 40-42; asst. chief price div, bur. labor statist, U.S. Dept. Labor, 42-45, chief, 45-58; dir. Iowa-Ill. Gas & Elec. Co, 55-, consult, 67. Fel. AAAS; Econ. Asn; fel. Statist. Asn.(secy-treas, 43-47, managing ed, 45-47); Agr. Econ. Asn. Prices; productivity; index numbers. Publ: Co-auth, Business and economic statistics. Address: Fair Lane Circle, P.O. Box 1104, Tryon, N.C. 28782.

KELLOGG, PROF. WINTHROP NILES, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

KELLOWAY, PROF. WARWICK F(REEMAN), b. Can, Aug. 8, 97. BUSINESS ADMINISTRATION. B.A, McGill, 24, M.A, 25; B.D, United Theol. Col, 27; fel, Union Theol. Sem, 27-28; Ph.D.(ed), Hartford Sem, 29; M.B.A, Columbia, 50. Assoc. minister, Cent. Presby. Church, N.J, 29-31; minister, Dom. United Church, Ont, 31-34; Knox United Church, Alta, 34-41; North Reformed Church, N.J, 41-44; assoc. prof. bus. admin, QUINNIPIAC COL, 50-58, chmn. faculty admin. bd, 55-57, prof. & chmn. div. BUS. ADMIN, 58-65, EMER. PROF, 65- U.S.A, 44-46. Address: 1450 Whitney Ave, Hamden, Conn. 06514.

KELLY, DR. A(RTHUR) R(ANDOLPH), b. Hubbard City, Tex, Oct. 27, 00; m. 27; c. 4. ANTHROPOLOGY. B.A, Texas, 25; M.A, Harvard, 27, Hemenway fel, 27-29, Nat. Res. Coun. fel. & Ph.D.(anthrop), 29. Instr. anthrop, Texas, 19-24; asst, Harvard, 25-29; asst. prof, Illinois, 29-33; archaeol. field dir, Smithsonian Instn. & Nat. Park Serv, 33-38, chief archaeologist, Nat. Park Serv, 38-47; prof. ANTHROP, GEORGIA, 47-67, EMER. PROF, 68- Dir. field expeds. for Univs. Illinois & Georgia, Smithsonian Instn. & Nat. Park Serv. to Cahokia Mounds, St. Louis; Ocmulgee Fields, Ga. AAAS; fel. Anthrop. Asn; fel. Soc. Am. Archaeol. Race mixture, Mexican and American Indian; early man in America; physical anthropology; racial studies; North American and southeastern United States archaeology. Publ: Preliminary report on archaeological explorations, Macon, Georgia, Bur. Am. Ethnol. Bull, 38; Physical anthropology of a Mexican population in Texas, Mid. Am. Res. Bull, Tulane, 47; Explorations at Sixtoe Field, Murray Co, Georgia, Lab. Archaeol, Univ. Georgia, 66. Address: Lab. of Archaeology, University of Georgia, Athens, Ga. 30602.

KELLY, PROF. B(ERNARD) WAYNE, Agr. Econs, see 11th ed, Phys. & Biol. Vols.

KELLY, DR. B(RUCE) W(ILLIAM), b. Clintwood, Va, Oct. 6, 11; m. 36; c. 2. ECONOMICS, STATISTICS. B.S.E, Florida, 38, M.A, 50, Ph.D.(econ), 53. Instr. econ, Florida, 51-53, asst. economist, agr. exp. sta, 53-57, assoc. economist, 59-60; agr. statistician, U.S. DEPT. AGR, 55-60, chief res. & develop. br, STATIST. REPORTING SERV, 60-66, DEP. DIR. AGR. ESTIMATES DIV, 66- Consult, State Plant Bd, Fla, 54-60. U.S. Dept. Agr. superior serv. award. U.S.A, 40-48, Lt. Col. AAAS; Statist. Asn; Agr. Econ. Asn; Biomet. Soc. Agricultural estimates. Address: 7503 Long Pine Dr, Springfield, Va. 22151.

KELLY, DR. CHARLES M, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

KELLY, DR. DENNIS D(ALEY), b. New York, N.Y, June 18, 38. EXPERIMENTAL PSYCHOLOGY. B.S, Fordham, 60; M.A, Columbia, 62, Nat. Sci. Found. fel, 62, Nat. Insts. Health fel, 62-64, Ph.D.(psychol), 66. Res. psychologist, Walter Reed Army Inst. Res, 64-67; prin. investr, Inst. Behav. Res, 67-68; ASSOC. RES. SCIENTIST, N.Y. STATE PSYCHIAT. INST, 68- Adj. asst. prof, Columbia, 68- U.S.A, 64-67. AAAS; Psychol. Asn. Physiological psychology; central pain mechanisms; animal psychophysics. Publ: Co-auth, Aversive thresholds following midbrain lesions, J. Comp. Physiol. Psychol, 6/68. Address: Dept. of Behavioral Physiology, New York State Psychiatric Institute, 722 W. 168th St, New York, N.Y. 10032.

KELLY, DR. EAMON M, b. New York, N.Y, Apr. 26, 36; m. 63; c. 3. ECONOMICS, FINANCE. B.A, Fordham, 58; M.S, Columbia, 60, Ph.D, 65. Instr. Fordham, 61-65; asst. prof. finance, Pa. State, 65-68; ECONOMIST, ECON. DEVELOP. ADMIN, U.S. DEPT. COMMERCE, 68- Nat. Sci. Found. award, 65. Summers, statistician, Basic Res, Inc, 60 & staff economist, Norweg. Govt, 61. Consult, Int. Bus. Mach. Corp, 64. U.S.A, 59. Econ. Asn; Finance Asn; Inst. Mgt. Sci. Empirical tests of profitability of growth through mergers; merger decision model; product line decision models; internal determinants of capital structure. Publ: Profitability of growth through mergers, Center Res, Pa. State Univ, 67; co-auth, Operating leverage: a clarification, Mgt. Acct, 66. Address: Economic Development Administration, U.S. Dept. of Commerce, Washington, D.C. 20230.

KELLY, DR. E(VERETT) LOWELL, Psychol, see 11th ed, Phys. & Biol. Vols.

KELLY, PROF. GEORGE A(LEXANDER), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

KELLY, DR. HARRIET J(ENNIE), b. Minn, Nov. 4, 05. STATISTICS. B.S, Minnesota, 27; fel. & M.A, Iowa, 32, fel. & Ph.D.(phys. growth), 36. Ed. bd. fel, Children's Fund of Mich, 36-37, chief statistician, 37-54; consult. statist, Merrill-Palmer Sch, 54-60; anal. statistician, area med. off, Vet. Admin, Minn, 60-66; RES. ANALYST, MINN. STATE DEPT. HEALTH, 67- Consult, Northeast. Regional Nutrit. Status Proj, 55- AAAS; Statist. Asn; Inst. Math. Statist; Soc. Res. Child Develop; Pub. Health Asn. Anthropometry; maternal and child health. Publ: Nutritional status of mothers and their infants; Physiological adaptation and nutritional status during and after pregnancy, J. Nutrit. Supplement; Chemical anthropology. Address: 1730 Yorkshire Ave, St. Paul, Minn. 55116.

KELLY, DR. ISABEL T(RUESDELL), b. Santa Cruz, Calif, Jan. 5, 06. ANTHROPOLOGY. A.B, California, 26, A.M, 27, Ph.D, 32. Res. assoc. anthrop, California, 30-36, 39; Gila Pueblo, 37-38; Guggenheim fel, 40, 42; dir. west Mex. archaeol, Inst. Andean Res, 41; anthropologist, Inst. Soc. Anthrop, Smithsonian Inst, 46-51; Int. Coop. Admin, 52-61; PRIVATE RESEARCH, 61- Nat. Res. Coun. fel, California & Lab. Anthrop, Santa Fe, N.Mex, 33-35. Anthrop. Asn; Soc. Archaeol; Ethnol. Soc; Mex. Anthrop. Soc. Ethnography; archaeology; applied anthropology; Latin America and the Middle East. Publ: Excavations at Apatzingan, Michoacán; La antropología, la cultura y la salud pública; Folk practices in North Mexico, Latin Am. Monogrs, 2, Univ. Texas, 65. Address: 16 Septiembre 29 y 48, Tepepan z.p. 23 D.F, Mexico.

KELLY, JAMES E(DWARD), C.S.C, b. Akron, Ohio, Apr. 30, 31. SOCIOLOGY. A.B, Notre Dame, 54, M.A, 61; Ph.D.(sociol), North Carolina, 67. Teacher, high sch, Ill, 58-60; ASST. PROF. SOCIOL, PORTLAND, 65-, CHMN. SOC. SCI. DIV, 67-68. Mem, Dept. Health, Ed. & Welfare Cmt, State Ore, 66-67. Sociol. Asn; Pop. Asn. Am. Demography; social organization and psychology; impact of social and religious factors on Catholic fertility in the United States; relocation of urban renewal grants, Portland, Oregon; problems and effectiveness of community action programs. Address: Social Sciences Division, University of Portland, 5000 N. Willamette Blvd, Portland, Ore. 97203.

KELLY, DR. JAMES G(ORDON), b. Cincinnati, Ohio, Dec. 21, 29; m. 52; c. 5. PSYCHOLOGY. B.A, Cincinnati, 53; M.A, Bowling Green State, 54; fels, Texas, 54-58, Ph.D, 58; S.M, Harvard, 60. Asst. clin. psychol, Bowling Green State, 53-54; clin. psychologist, Vet. Admin, Texas, 55-58; res. fels, dept. psychiat, Harvard Med. Sch. & State Dept. Ment. Health, Mass, 58-59; U.S. Pub. Health Serv. res. fel, sch. pub. health, Harvard, 59-60; psychologist, ment. health study center, Nat. Inst. Ment. Health, 60, chief community projs. sect, 61-64; ASSOC. PROF. PSYCHOL, Ohio State, 64-66; MICHIGAN, 66- Consult, Nat. Center Health Statist, 64- Mem, staff develop. cmt, Nat. Inst. Ment. Health, 66-69. U.S.P.H.S, 60-62, Scientist. AAAS; Psychol. Asn; Pub. Health Asn; Sociol. Asn. Community mental health; ecology; community structure and coping styles; theories of intervention. Publ: Community mental health and social psychiatry: reference guide; Ecological constraints on mental health services, Am. Psychol, 66; Naturalistic observations and theory confirmation, Human Develop, 67. Address: 1220 Ferdon Rd, Ann Arbor, Mich. 48104.

KELLY, SISTER M(ARY) AQUINICE, O.P, b. Chicago, Ill, Jan. 5, 10. SOCIOLOGY. B.A, Rosary Col, 42; M.A, Catholic Univ, 50. Instr. SOCIOL, ROSARY COL, 50-53, asst. prof, 53-61, ASSOC. PROF, 61-, chmn. dept, 59-67. Sociol. Asn; Acad. Polit. & Soc. Sci; Anthrop. Asn; Soc. Study Social Probs. Sociological theory; social organization and disorganization; human relations. Publ: Catholic college spinsters?, Soc. Order; Present focus on human relations, J. Human Rels. Address: Dept. of Sociology, Rosary College, River Forest, Ill. 60305.

KELLY, PROF. MATTHEW A(RNOLD), b. New York, N.Y, June 17, 13; m. 38; c. 2. ECONOMICS. A.B, Amherst Col, 36; Cuyler fel, Princeton, 38, M.A, 40, Ph.D, 45. U.S. rep, quadripartite cmt. & chief wages & labor standards br, Allied Control Coun, Germany, 45-46; asst. prof. econ, Princeton, 46-50; secy. & dir. indust. rels. Printing Indust. Am, Inc, 50-52; Printing Industs. Asn. Metrop. New York, 52-67; PROF, STATE UNIV. N.Y. SCH. INDUST. & LABOR RELS. CORNELL, 67-, COORD. DIR. AM. FOUND. AUTOMATION & EMPLOY. INST. COLLECTIVE BARGAINING & GROUP RELS. 68- U.S.N.R, 43-45, Lt. Econ. Asn; Polit. Sci. Asn; Indust. Rels. Res. Asn. Labor economics; industrial relations and organization; economic systems. Publ: Adaptations in the structure of bargaining, Indust. Labor Rels. Sch, Cornell Reprint Series 217; Early federal regulation of hours of labor in the United States, Indust. & Labor Rels. Rev; The application of pre-activity in the avoidance of crisis bargaining, Labor Law J, 1/67. Address: 501 Eagle Knolls Rd, Larchmont, N.Y. 10538.

KELLY, DR. PAUL EDWARD, b. Rockford, Ill, Feb. 23, 28; m. 53; c. 4. SOCIOLOGY, EDUCATION. B.S, Bradley, 52, A.M, 53; A.M, Chicago, 57; dipl, Oxford, 58; Ed.D.(sociol. of ed), Harvard, 61. Teacher, high sch, Iowa & Ill, 53-57; from teaching fel. to res. assoc. ed, Harvard, 60-61; asst. prof, Virginia, 61-65, assoc. prof. ed. & lectr. hist, 65-67, dir, 1965 Higher Ed. Act Experienced Teacher Fel. Prog. in Hist, 66-67, dir, Nat. Defense Ed. Act Summer Inst. Hist, 67; PROF. SOCIOL. & ED. & CHMN. DEPT. ED. SOCIOL, COL. ED. GEORGIA, 67- Lectr, Teachers Col, Columbia & vis. asst. prof, Harvard, summer 63; res. assoc, Dartmouth Col, 64-65. Mem. teacher ed. & cert. cmt, Nat. Coun. Soc. Studies, 67-70. U.S.N, 46-48. Fel. Sociol. Asn. Sociology of education and social science education. Address: 265 Cedar Creek Dr. Athens, Ga. 30601.

KELLY, PROF. PAUL E(LLSWORTH), b. Loveland, Colo, Nov. 12, 10; m. 37; c. 2. MARKETING. A.B, Colorado, 32; A.M, Colo. State Col, 41; fel, Indiana, 63. Supvr. sales & mkt, Colo. Milling & Elevator Co, 33-40; asst. prof. mkt, Evansville Col, 46-50; assoc. prof, ST. JOSEPH'S COL.(IND), 50-61, PROF. BUS. ADMIN. & CHMN. DEPT, 61- Mkt. Asn; Mgt. Asn. Advertising; copy testing; rural area; consumer habits and income market research; changes; population trends. Publ: Co-auth, Principles of retailing; Principles of marketing; auth, Marketing, an introductory analysis, Brown, Inc, 66. Address: Dept. of Marketing, St. Joseph's College, Rensselaer, Ind. 47978.

KELLY, PROF. R(OSS) A(NTHONY), b. Brigham City, Utah, Apr. 26, 09; m. AGRICULTURAL ECONOMICS. B.S, Utah State Agr. Col, 40, M.S, 41. Assoc. agr. econ, ILLINOIS, URBANA, 42-43, from asst. prof. to PROF. FRUIT & VEG. MKT, 43- Agr. Econ. Asn. Marketing; floricultural sales in mass market outlets.apple marketing in Illinois, production and prices. Address: Dept. of Agricultural Economics, University of Illinois, Urbana, Ill. 61801.

KELLY, DR. THOMAS A(LEXANDER), b. Nashville, Tenn, Nov. 6, 12; m. 42; c. 4. ECONOMICS. Fel. & Ph.D.(econ), Vanderbilt, 50. Instr. econ, Vanderbilt, 46-47; asst. prof. bus. admin, Miss. State Col, 47-51, assoc. prof, 51-55; chmn. econ. & bus. admin, Roanoke Col, 55; prof. bus. admin, Lynchburg Col, 59-65; ECONOMIST, GOV. OFF, VA. DIV. INDUST. DEVELOP, 65- Econ. Asn; Soc. Adv. Mgt. Labor productivity; industrial development; employment trends. Publ: Co-auth, Mississippi workers; Impact of World War II on the southeast; Pascagoula, Mississippi area in wartime, Miss. Quart. Address: Virginia Division of Industrial Development, 1010 State Office Bldg, Richmond, Va. 23219.

KELLY, PROF. WILLIAM A(NTHONY), Psychol, see 10th ed, Soc. & Behav. Vols, deceased.

KELLY, DR. WILLIAM B(OLAND), JR, b. Louisville, Ky, July 20, 26; m. 53; c. 4. INTERNATIONAL ECONOMICS. B.S, Louisville, 49; Rotary Found. fel, Edinburgh, 49-50; George Washington, 51-53; Clayton scholar. & fel, Fletcher Sch. Law, 53-55, M.A, 54, Ph.D, 58. Int. economist, U.S. Dept. State, 51-53; asst, Fletcher Sch. Law, 55-57, instr, 56-59, res. assoc, 57-61, William L. Clayton asst. prof, 59-61; int. economist, off. undersecy. for. econ. adv. staff, U.S. Dept. State, 61-62; dir. trade negotiations staff, off. commercial & financial policy, U.S. Dept. Commerce, 62-65, sr. adv. to U.S. del, Kennedy Round Trade Negotiations, Geneva, 65-67; SR. INT. ECONOMIST & TRADE STUDY COORDINATOR, OFF. SPEC. REP. TRADE NEGOTIATIONS, EXEC. OFF. PRESIDENT, 67- Vis. assoc. prof, Boston, 60-61; grad. sch, Georgetown, 63, adj. prof, 64; mem. faculty, U.S. Dept. Agr. Grad. Sch, 63, 64 & 68. Spec. consult, U.S. Senate Cmt. Interstate & For. Commerce, 60. Mem. Ford Found. faculty res. seminar int. econ, Mass. Inst. Tech, 59. Superior accomplishment award, U.S. Dept. Commerce, 67. U.S.A, 44-46. Econ. Asn. Publ: Ed. & co-auth, Studies in United States commercial policy, Univ. North Carolina, 63; auth, Expanded trade agreements escape clause, 1955-61, J. Polit. Econ, 2/62; Non-tariff barriers, In: Studies in trade liberalization, Johns Hopkins, 67. Address: Office of the Special Representative for Trade Negotiations, Executive Office of the President, Washington, D.C. 20506.

KELLY, PROF. WILLIAM H(ENDERSON), b. Bisbee, Ariz, Nov. 23, 02; m. 27. ANTHROPOLOGY. A.B, Arizona, 36; Ph.D.(anthrop), Harvard, 44. Instr. anthrop, Harvard, 43-46, res. assoc, Peabody Mus, 46-47, 48-49; assoc. prof. anthrop, McGill, 47-48, Minnesota, 49-52; PROF. ANTHROP. & DIR. BUR. ETHNIC RES, ARIZONA, 52- Vis. lectr, Harvard, 54-55. Mem. Indian Employ. Adv. Cmt, U.S. Employ. Serv, 67- Fel. Anthrop. Asn; Sociol. Asn; Soc. Appl. Anthrop. Comparative social structure; applied social science; culture and personality. Publ: Indians of the Southwest, 53, The Papago Indians of Arizona, 63 & Study of southern Arizona school-age Indian children, 67, Univ. Arizona. Address: 5837 E. Hawthorne, Tucson, Ariz. 85711.

KELLY, WILLIAM LEO, S.J, Philos, Psychol, see 5th ed, Dir. Am. Scholars, Vol. IV, Philos, Relig. & Law.

KELMAN, DR. HERBERT C(HANOCH), b. Vienna, Austria, Mar. 18, 27; nat; m. 53. SOCIAL PSYCHOLOGY. B.A, Brooklyn Col, 47; B.H.L, Sem. Col. Jewish Studies, 47; Sheffield fel, Yale, 48-50, M.S, 49, Sterling jr. fel, 50-51, Ph.D.(psychol), 51. Asst. psychol, Yale, 47-51; Soc. Sci. Res. Coun. res. training fel, Phipps Psychiat. Clin, Hopkins Hosp, 51-52; U.S. Pub. Health Serv. res. fel, Hopkins, 52-54; fel, Center Adv. Study Behav. Scis, Calif, 54-55; res. psychologist, Nat. Inst. Ment. Health, 55-57; lectr. soc. psychol, Harvard, 57-62; prof. psychol, Michigan, 62-68; RICHARD CLARKE CABOT PROF. SOC. ETHICS, HARVARD, 68- U.S. Pub. Health Serv. spec. res. fel, Inst. Soc. Res, Norway, 60-61; vis. fel, West. Behav. Sci. Inst, La Jolla, Calif, 64; fel, Center Adv. Study Behav. Sci, 67; Nat. Inst. Ment. Health grant & prin. investr, 58- Res. psychologist, center res. conflict resolution, Michigan, 62-, chmn. doctoral prog. soc. psychol, 66-67. Chmn, Int. Conf. Soc-psychol. Res. Develop. Countries, Ibadan, Nigeria, 66-67; mem. adv. cmt. govt. progs. behav. sci, Nat. Acad. Sci, 66-; adv. cmt, inst. innovation grad. training psychol, Colorado, 67- AAAS prize, 56. Fel. Psychol. Asn; Asn. Pub. Opinion Res; fel. Soc. Psychol. Study Soc. Issues (pres, 64-65); Sociol. Asn; Inter-Am. Soc. Psychol; Int. Peace Res. Asn. Attitude change through social influence; sociopsychological factors in international relations; effects of cross-cultural experience; psychotherapy; intergroup conflict; social movements; political ideology. Publ: Ed. & co-auth, International behavior: a social-psychological analysis, Holt, 65; auth, A time to speak: on human values and social research, Jossey-Bass, 68. Address: Dept. of Psychology, Harvard University, Cambridge, Mass. 02138.

KELSEN, PROF. HANS, b. Prague, Czech, Oct. 11, 81; nat; m. 12; c. 2. INTERNATIONAL LAW, JURISPRUDENCE. Dr. Law, Vienna, 06; hon. Dr, Utrecht, 36, Harvard, 36, Chicago, 47, California, 51, Nat. Univ. Mex, 52, Salamanca, 54, Free Univ. Berlin, 61, Vienna, 61, New Sch. Soc. Res, 61, Paris, 63, Salzburg, 67. Prof. pub. law & jurisp, Vienna, 11-30, dean law faculty, 22-23; prof. int. law & jurisp, Cologne, 30-33, dean faculty law, 32-33; prof. int. law, Grad. Inst. Int. Studies, Geneva, 33-40; Oliver Wendell Holmes lectr, Harvard Law Sch, 41, res. assoc, 41-42; prof. INT. LAW & JURISP, CALIFORNIA, BERKELEY, 42-52, EMER. PROF, 52- Prof, German Univ. Prague, 36-38; vis. prof, Wellesley Col, 41; Grad. Inst. Int. Studies, Geneva, 52-53; prof, Naval War Col, 53-54. Legal adv, Austrian Govt, 19-23; mem. & permanent adv, Supreme Constitutional Court of Austria, 20-29. Cert. of merit, Am. Soc. Int. Law & hon. ed, Am. J. Int. Law, 52. Mem, Int. Soc. Sci. Coun, UNESCO, 53. Hon. prof, Vienna, 47, Rio de Janeiro, 52, Nat. Univ. Mex, 60. Hans Kelsen Grad. Soc. Sci. Library, Univ. California, Berkeley, named in 1964. Dr. Karl Renner Prize, City of Vienna, 53 & Token of Honor, 66; Feltrinelli Int. Prize, 60; Austrian Cross of Honor for Sci. & Art, 61; German Cross of Merit with Star, 61; Great Silver Decoration with Star, Austria, 67. Am. Acad. Polit. & Soc. Sci; Int. Inst. Sociol; Sci. Soc. Finland; Hellenic Inst. Int. & For. Law; hon. mem. Acads. of Sci. in Argentina, Austria, Belgium, Finland, France, Italy, Japan & Utrecht, Netherlands and hon. mem. other sci. socs. in these countries & U.S. Publ: Reine Rechslehre, 34, 2nd ed, 60 & Pure theory of law, (English transl), 67; Principles of international law, 52; Vom Wesen und Wert der Demokratie, 63. Address: 2126 Los Angeles Ave, Berkeley, Calif. 94707.

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field renting good or bad, J. Am. Soc. Farm Mgrs. & Rural Appraisers. Address: Dept. of Agricultural Economics, Michigan State University, East Lansing, Mich. 48823.

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KELSO, PROF. HUGH E(DWARD), b. Lone Tree, Iowa, Feb. 16, 16. POLITICAL SCIENCE. A.B, Iowa, 38, A.M, 39, Ph.D, 41. Asst. POLIT. SCI, Iowa, 40-41; instr, Denison, 41-42; head sect, U.S. Army Univ.(Italy), 45-46; asst. prof, Miami (Fla), 46; IOWA, 46-49, assoc. prof, 49-65, PROF, 65-, ASST. DEAN COL. LIB. ARTS, 63- U.S.A, 42-45. Polit. Sci. Asn; Col. Personnel Asn. American governmental institutions; comparative foreign governments; public administration. Publ: Classroom discussion via television, Sch. & Soc; Proujade and French politics, World Affairs Quart; The federal service entracne examination: a campus critique, Pub. Personnel Rev. Address: Dept. of Political Science, University of Iowa, Iowa City, Iowa 52240.

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KEMLER, PROF. JOHN H(UGHES), b. Platteville, Wis, June 25, 12. GEOGRAPHY. B.S, Southern California, 35, M.B.A, 36; Ph.D.(geog), Chicago, 49. From assoc. prof. to PROF. GEOG. & CHMN. DEPT, BELOIT COL, 49- AAAS; Asn. Am. Geog. Economic and political geography. Publ: Struggle for Wolfram in the Iberian Peninsula, June, 1942-June, 1944. Address: Dept. of Geography, Beloit College, Beloit, Wis. 53511.

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KEMPLER, DR. BERNHARD, b. Crakow, Poland, May 2, 36; U.S. citizen, m; c. 2. PSYCHOLOGY. B.A, Brandeis, 58; M.A, Clark, 62, Ph.D.(psychol), 64. ASST. PROF.PSYCHOL, EMORY, 64- Res. grants, Nat. Insts. Health, 65-68, Emory Univ. Ed. Res. Fund, 67. Psychol. Asn. Personality; personality and perception; perceptual and cognitive development. Publ: Co-auth, Personality and perception in the recognition threshold paradigm, Psychol. Rev, 63; Personality-perception; characteristic response to available partcues, J. Personality, 64. Address: Dept. of Psychology, Emory University, Atlanta, Ga. 30322.

KEMPNER, DR. ROBERT M.W, b. Freiburg, Germany, Oct. 17, 99; nat; m; c. 2. POLITICAL SCIENCE, INTERNATIONAL LAW. Dr. iuris utr & Bar. Exam, Freiburg & Berlin, 26. Lectr, German Acad. Polit. Sch. Soc. Work & Police Inst, Berlin, 26-33; counsr. int. law & admin. of econ, 34-45; prof. polit. sci. & pres, Fiorenza Col, Italy & France, 36-39; res. assoc. & asst, inst. local & state govt, Pennsylvania, 39-42; expert consult, U.S. Dept. Justice, Off. Strategic Servs. & U.S. Secy War, 40-45; U.S. Staff Prosecutor & Res. Dir, 45-46; U.S. Dept. Chief Counsel for War Crimes, Nuremburg, 46-49; U.S. Rep, Inst. Pub. Affairs, Frankfurt, 49; RES. LECTR. & COUNSR. POLIT. SCI, 50- Asst. to State Attorney, Berlin, Germany, 26, judge, Munic. Court, 27, superior govt. counsr, Ministry of Interior, 28-33; lectr, Michigan, Wisconsin, Washington, Columbia, Northwestern & U.S. Mil. Acad, 41-45; U.S. vis. prof, Erlangen, Bavaria, 46-49; grants, Carnegie Corp. & Schurz Found. Spec. consult. to Israel Govt, Eichmann Trial, & other trials to German Govt. Agencies, 60-68. Polit. Sci. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci. German-Russian relations; annihilation of European Jewry; war crimes trials; foreign relations; police and intelligence systems; international idemnification and claim problems; Publ: Eichmann and accomplices, Luerich, 60; Warren Report, German ed, 63; Edith Stein and Anne Frank, two of 100,000, Frieburg, 68. Address: 112 Lansdowne Court, Lansdowne, Pa. 19050.

KEMPTHORNE, PROF. OSCAR, Statist, see 11th ed, Phys. & Biol. Vols.

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KENDALL, PROF. WILLMOORE, see 10th ed, Soc. & Behav. Vols.

KENDIG, DR. ISABELLE V(IRGINIA), b. Chicago, Ill, Sept. 11, 89; m. 15; c. 4. PSYCHOLOGY. A.B, Oberlin Col, 12; A.M, Harvard, 30, Ph.D.(psychol), 33. Consult. psychologist, Cambridge Sch, Mass, 32-35; res. psychologist, St. Elizabeth's Hosp, D.C, 36-38, assoc, 38-43, chief, 43-50; chief psychologist, Vet. Admin. Hosp, Tomah, Wis, 50-52; Baltimore, Md, 53-55; clin. psychologist, NAT. INST. MENT. HEALTH, 55-60, SPEC. CONSULT, 61- Instr, Pine Manor Jr. Col, 30-35; lectr, George Washington, 43-50; Catholic Univ; Wash. Sch. Psychiat. Fel. Psychol. Asn; fel. Soc. Proj. Tech; Int. Coun. Psychol. Schizophrenia; psychosomatic medicine; projective techniques. Publ: Studies in perseveration; The basic Rorschach triad; co-auth, Psychological studies in dementia praecox. Address: 1820 Tucker Lane, Sandy Spring, Md. 20860.

KENDLER, PROF. HOWARD H(ARVARD), b. New York, N.Y, June 9, 19; m. 41; c. 2. PSYCHOLOGY. A.B, Brooklyn Col, 40; M.A, Iowa, 41, Ph.D. (exp. psychol), 43. Asst. psychol, Iowa, 42-43, instr, 43-44; res. psychologist, Nat. Defense Res. Cmt. Proj, Psychol. Corp, 44; asst. prof. PSYCHOL, Colorado, 46-48; assoc. prof, N.Y. Univ, 48-51, prof. & chmn. dept, univ. col, 51-60, prof, 61-63; PROF, CALIFORNIA, SANTA BARBARA, 63-, chmn. dept, 65-66. Vis. prof. California, 60-61. Consult, U.S. Dept. Defense, 59-60; Nat. Inst. Child Health & Human Develop, 64-66. Mem. psychobiol. panel, Nat. Sci. Found, 59-62. U.S.A, 44-46, 1st Lt. Fel. Psychol. Asn; Soc. Exp. Psychol; Psychonomic Soc. Psychology of learning and problem solving; learning theory; cognitive processes; learning; theoretical psychology. Publ: Basic psychology, Appleton, 63, 2nd ed, 68. Address: Dept. of Psychology, University of California, Santa Barbara, Calif. 93106.

KENDLER, PROF. TRACY SEEDMAN, b. Brooklyn, N.Y, Aug. 4, 19; m. 41; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 40; M.A, Iowa, 42, Ph.D.(psychol), 43. Res. asst, Col. Entrance Bd, N.J, 44; statistician, res. bur, U.S. Dept. Army Air Force, 45-46; from instr. to asst. prof. psychol, Colorado, 46-48; res. assoc, cmn. community interrel, Am. Jewish Cong, N.Y, 48-49; res. assoc, psychol. res. center, N.Y. Univ, 51-55; assoc. prof. psychol, Barnard Col, Columbia, 55-64; res. psychologist, CALIFORNIA, SANTA BARBARA, 64-66, PROF. PSYCHOL, 66- Nat. Sci. Found. res. grants, 53-55, 56-59, 60-67; U.S. Pub. Health Serv. res. grant, 65-69. Chief psychologist, Chicago State Hosp, 44. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc; Soc. Res. Child Develop. Problem solving; learning; developmental psychology. Address: Dept. of Psychology, University of California, Santa Barbara, Calif. 93106.

KENDRICK, DR. DAVID ANDREW, b. Gatesville, Tex, Nov. 14, 37; m. 64; c. 1. ECONOMICS. B.A, Texas, 60; Ph.D.(econ), Mass. Inst. Tech, 66. Fel. ECON, center int. studies, Mass. Inst. Tech, 65-66; ASST. PROF, HARVARD, 66- Consult, Bur. Budget, Exec. Off. President, 67- Qm.C, U.S.A.R, 60-, Capt. Economet. Soc; Econ. Asn; Soc. Indust. & Appl. Math. Application of mathematical programming techniques to problems of resource allocation on a sectoral or national economy basis. Publ: Programming investment in the process industries, Mass. Inst. Tech, 67; Investment planning in economic integration, Econ. Planning, 67. Address: Dept. of Economics, Harvard University, Cambridge, Mass. 02138.

KENDRICK, DEAN DAVID D, b. Wichita, Kans, June 25, 11; m. 48; c. 1. ECONOMICS. B.S, Idaho, 35; M.S, California, Berkeley, 49, Ph.D.(econ), 56. Mgr, Wall & Rawlings Food Store, 35-40; teacher, high schs, 40-42; supvr, Off. Price Admin, 42-43; instr. mkt, Idaho, 46-47; lectr. pharm. admin, California, San Francisco, 51-57; DEAN COL. BUS. ADMIN, IDAHO, 57-, DIR, BUR. BUS. & ECON. RES, 59- Co-chmn. adv. bd, Idaho Dept. Employ, 63-; chmn, Idaho adv. bd, Nat. Defense Ed. Act, 66- Mem. regional adv. bd, Small Bus. Admin, 67-; Idaho Arts & Humanities Cmn, 67- U.S.N.R, 43-45, Lt. Econ. Asn. International transfer of technical knowledge; use of computers in education and research activities of a college of business administration. Address: College of Business Administration, University of Idaho, Moscow, Idaho 83843.

KENDRICK, PROF. FRANK J(ENNESS), b. Ft. Wayne, Ind, Oct. 18, 28; m. 56; c. 3. POLITICAL SCIENCE. B.A, Grinnell Col, 50; M.A, Chicago, 56, Ph.D. (polit. sci), 62. Asst. prof. polit. sci, Wofford Col, 58-60; vis. instr. hist. & polit. sci, Evansville Col, 61-62; asst. prof. POLIT. SCI, Drury Col, 62-63; ASSOC. PROF, MOORHEAD STATE COL, 63- Med.C, U.S.A, 51-53. American National government and politics. Address: Dept. of Political Science, Moorhead State College, Moorhead, Minn. 56560.

KENDRICK, PROF. JOHN W(HITEFIELD), b. New York, N.Y, July 27, 17; m. 52; c. 3. ECONOMICS. A.B, North Carolina, 37, M.A, 39; Chicago, 39-40; Ph.D, George Washington, 55. Instr. econ, Georgia, 40-41; economist, Nat. Resources Planning Bd, 41-43; bus. economist, off. bus. econ, U.S. Dept. Commerce, 46-53; mem. res. staff econ, Nat. Bur. Econ. Res, 53-56; assoc. prof. ECON, GEORGE WASHINGTON, 56-59, PROF, 59- Consult, off. statist. standards, Bur. Budget, 56- Mem. adv. cmt. econ. studies, Nat. Sci. Found, 60-; econ. adv. cmt. to Secy. Commerce, 67-68. U.S.A.A.F, 43-46, 1st Lt. Econ. Asn; fel. Statist. Asn; Int. Asn. Res. Income & Wealth. National income accounts; theory productivity; economic growth; business cycle theory and analysis; economic or business forecasting. Publ: Productivity trends in the United States; co-auth, Measuring company productivity: handbook with case studies; Measuring the Nation's wealth, Joint Econ. Cmt. Cong, 64. Address: 6363 Waterway Dr, Falls Church, Va. 22044.

KENDRICK, DR. MILDRED A, Biostatist, Sociol, see 11th ed, Phys. & Biol. Vols.

KENDRICK, PROF. M(YRON) SLADE, b. Mendon, Mo, Aug. 24, 94; m. 22; c. 2. ECONOMICS, PUBLIC FINANCE. A.B, Missouri, 18, A.M, 21; Ph.D, Cornell, 24. Instr, Drake, 20-21; CORNELL, 21-24, asst. prof, 24-39, assoc. prof, 39-40, prof. ECON & PUB. FINANCE, 40-62, EMER. PROF, 62- Spec. adv. head tax consult. & chief ways & means sect, agr. adjust. admin, U.S. Dept. Agr, 34-35; res. assoc, Orgn. Am. States, Panama, 62. Econ. Asn; Agr. Econ. Asn; Tax Inst. Publ: Public finance, Houghton, 51; co-auth, Fiscal survey of Panama, Johns Hopkins, 64; auth, Improving the use tax, Nat. Tax J, 3/67. Address: Dept. of Economics, Warren Hall, Cornell University, Ithaca, N.Y. 14850.

KENEN, PROF. PETER B(AIN), b. Cleveland, Ohio, Nov. 30, 32; m. 55; c. 3. ECONOMICS. B.A, Columbia, 54; Wilson fel, Harvard, 54-55, Earhart Found. fel, 55-56, M.A, 56, Ph.D, 58; Ford Found. fel, London Sch. Econ, 56-57. Instr. ECON, COLUMBIA, 57-58, asst. prof, 58-61, assoc. prof, 61-64, PROF, 64-, CHMN. DEPT, 67- Ford Found. faculty res. fel, 62-63. Consult, U.S. Treas, 61; U.S. Bur. Budget, 64- Coun. For. Rels; Econ. Asn; Economet. Soc; Royal Econ. Soc. International economics, especially trade theory and foreign economic policy; monetary economics, especially international monetary relations and organization. Publ: British monetary policy and the balance of payments; Giant among nations; International Economics, Prentice-Hall, 67. Address: Dept. of Economics, 501 Fayerweather Hall, Columbia University, New York, N.Y. 10027.

KENKEL, JOSEPH B(ERNARD), C.P.P.S, b. Newport, Ohio, Jan. 1, 94. ECONOMICS. A.B, St. Joseph's Col.(Ind), 13; St. Charles Sem, 13-18; Ph.D, Catholic Univ, 22. Dir. col. dept, St. Charles Sem, 22-25; dean studies, St. Joseph's Col.(Ind), 25-27, pres. & mem. bd. control, 27-37, chmn. div. soc. scis, 37-44, 46-50; asst. prof, Catholic Univ, 44-46; prof. ECON, ST. JOSEPH'S COL.(IND), 46-66, EMER. PROF, 66- Acad. Polit. & Soc. Sci. Labor relations; labor problems in light of Catholic social teaching; sharing profits and management with employees. Address: Dept. of Economics, St. Joseph's College, Collegeville, Ind. 47978.

KENKEL, PROF. WILLIAM F(RANCIS), b. Feb. 11, 26; m. 47; c. 5. SOCIOLOGY. B.A, Maryland, 49, M.A, 50; Ph.D.(sociol), Ohio State, 52. Res. assoc. SOCIOL, Ohio State, 52-53; asst. prof, Iowa State, 54-57, assoc. prof, 57-61, prof, 61-67, head dept, 66-67; PROF, KENTUCKY, 67- U.S.M.C, 43-44. Sociol. Asn; Soc. Study Social Probs; Nat. Coun. Family Rels.(pres, 67-68). Family; social stratification. Publ: Family in perspective; co-auth, Social stratification in the United States & Problems of American society. Address: Dept. of Sociology, University of Kentucky, Lexington, Ky. 40506.

KENNAMER, DEAN LORRIN, b. Abilene, Tex, Dec. 20, 24; m. 47. GEOGRAPHY. A.B, East. Ky. State Col, 48; M.S, Tennessee, 49; Ph.D, Peabody Col, 52. From instr. to asst. prof. geog, E.Tex. State Teachers Col, 52-54, assoc. prof. & chmn. dept. 54-56; asst. prof, Texas, 56-59, assoc. prof, 59-61, acting chmn. dept, 60-61, chmn. dept. geog. & assoc. dean col. arts.& sci, 61-67; PROF. GEOG. & DEAN ARTS & SCI, TEX. TECH. COL, 67- Summers, vis. prof, Vermont, 58, Mich. State, 60, Washington, 67. Consult, Houston Independent Sch. Dist, 59-60; Tex. Ed. Agency, 61. Mem, Nat. Coun. Soc. Studies; Bd. Exam. Teacher Ed, Tex, 66-68; cmt. exam, Col. Entrance Exam. Bd, 66-68. U.S.N.R, 43-46, Lt.(jg). Asn. Am. Geog; fel. Geog. Soc; Nat. Coun. Geog. Ed.(pres, 67). Conservation, especially water resources; geographic education. Publ: Co-auth, Geography worktext series, Texans

and their land, Steck, 65 & Atlas of Texas, Univ. Texas, 67. Address: Dept. of Geography, Texas Technological College, Lubbock, Tex. 79409.

KENNARD, DR. DAVID W(ILLIAM), Psychiat, Psychophysiol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KENNARD, PROF EDWARD A(LLAN), b. New York, N.Y, Oct. 24, 07; m. 35. ANTHROPOLOGY. A.B, Dartmouth Col, 29; fel, Lab. Anthrop, Santa Fe, N.Mex, 32; Am. Coun. Learned Soc. fel, 33-34; fel, Columbia, 34-35, Ph.D. (anthrop), 36. Ed, N.Am. Ethnol. & Archaeol, Fed. Writers Proj, 36-38; res. fel, Hopi ethnog. & lang, Columbia, 38-39; specialist Indian langs, ed. div, Off. Indian Affairs, U.S. Dept. Interior, 39-47; prof. anthrop, for. serv. inst, U.S. Dept. State, 47-53; chief anthrop, Vet. Admin. Hosp, Downey, Ill, 54-60; PROF. ANTHROP, PITTSBURGH, 60-, chmn. dept, 60-63. U.S.A, 43-45. Fel. AAAS; fel. Anthrop. Asn; Ethnol. Soc; Ling. Soc; Soc. Appl. Anthrop. North American ethnology; descriptive linguistics, especially North American Indian languages; international relations as cross-cultural relations; social and cultural factors in mental illness. Address: Dept. of Anthropology, University of Pittsburgh, Pittsburgh, Pa. 15213.

KENNEDY, PROF. CHARLES JOHNSTON, b. Bushnell, Nebr, Sept. 8, 11; m. 38. ECONOMIC HISTORY. A.B, Hastings Col, 33; M.A, Nebraska, 36; Ph.D, Wisconsin, 40. Asst. hist, Nebraska, 36-37; Wisconsin, 37-40; prof. hist. & econ. & chmn. dept. soc. sci, Iowa Wesleyan Col, 40-46; asst. prof. ECON, NEBRASKA, 46-54, assoc. prof, 54-57, PROF, 57- Fel. bus. hist, grad. sch. bus. admin, Harvard, 49-50. Consult, Boston & Maine R.R, 53-54, summers, 52, 55. U.S.N.R, 43-46, Lt. Econ. Asn; Econ. Hist. Asn. History of capitalism; appraisal and development of railroad management; management history of non-profit organizations. Publ: Early business history of four Massachusetts railroads, Bull. Bus. Hist. Soc; Eastern railroad company, 1835-84 & Commuter services in Boston, 1835-60, Bus. Hist. Rev. Address: Dept. of Economics, University of Nebraska, Lincoln, Nebr. 68508.

KENNEDY, DR. DONALD ALEXANDER, Soc. Anthrop, see 10th ed, Soc. & Behav. Vols.

KENNEDY, PROF. EUGENE CULLEN, b. Syracuse, N.Y, Aug. 28, 28. PSYCHOLOGY. A.B, Maryknoll Col, 50; S.T.B, Maryknoll Sem, 54, M.R.E, 55; M.A, Catholic Univ, 58, Ph.D.(psychol), 62. Instr. relig, Maryknoll Jr. Sem, 55-56; PSYCHOL, Catholic Univ, 58-60; PROF, MARYKNOLL COL, 60-; LECTR, LOYOLA (ILL), 62- Consult, Menninger Found, 65- Chmn. psychol. sect, cmn. pastoral res. & practice, Nat. Conf. Cath. Bishops, 67- Psychol. Asn; Soc. Sci. Study Relig. Individual psychotherapy; psychological aspects of religious practice; ministry and the life of priests. Publ: Coauth, The genius of the apostolate, 65, auth, Fashion me a people, 67 & Comfort my people, 68, Sheed. Address: Dept. of Psychology, Maryknoll College, Glen Ellyn, Ill. 60137.

KENNEDY, PROF. JAMES EDWARD, b. West New York, N.J, June 21, 21; m. 52; c. 3. PSYCHOLOGY. B.S, Fordham, 43; M.A, Mich. State, 50, Ph.D, 56. Res.assoc.psychol, Roger Bellows & Assocs, 52-53; psychologist, Gen. Motors Corp, 53-57; asst.prof, EXTEN. DIV, WISCONSIN, MADISON, 57-62, ASSOC. PROF. PSYCHOL, 62- U.S.N.R, 43-46, Lt.(jg). Psychol. Asn. Industrial applications of psychology. Address: Dept. of Psychology, Extension Division, University of Wisconsin, Madison, Wis. 53706.

KENNEDY, DR. JAY B, b. Indianapolis, Ind, Feb. 7, 31; m. 54; c. 2. ECONOMICS. A.B, Indiana, 54, M.A, 57, Ph.D.(econ), 61. Asst. prof. econ, col. bus. admin, South Florida, 60-63; staff economist, Arabian Am. Oil Co, 63-67; ASSOC. PROF. ECON, SOUTH FLORIDA, 67- U.S.A, 54-56, 1st Lt. Econ. Asn. Occupational health survey. Publ: Co-auth, Protective labor legislation in Indiana, Indiana Univ. Bur. Bus. Res, 65. Address: College of Business Administration, University of South Florida, Tampa, Fla. 33620.

KENNEDY, DR. JESSE C(ARL), b. Harlem, Mont, Nov. 25, 18; m. 47; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.S, Georgia, 41; Ph.D.(int. rels), Chicago, 62. Instr. hist, Southern Illinois, 50-55; newscaster & commentator, WMBD-TV, Peoria, Ill, 56-61; PROF. SOC. STUDIES, GLASSBORO STATE COL, 61- Res. scientist, center res. soc. systs, American Univ, 65-67; sr. res. scientist, Rowland & Co, N.J, 67- U.S.A.A.F, 41-46, Capt. Am. Acad. Polit. & Soc. Sci; Asn. Asian Studies. American foreign policy in China; Confucianism and Communism in China; community councils in Korea; physical anthropometry; Republic of Korea civic action. Publ: Study of community relations councils in Korea, Center Res. Soc. Systs, American Univ, (in press). Address: Dept. of Social Studies, Glassboro State College, Glassboro, N.J. 08028.

KENNEDY, PROF. JOHN J(OSEPH), b. Cortland, N.Y, Sept. 13, 14; m. 42; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, New Mexico, 36; Nat. Coun. Relig. Higher Ed. fel, Columbia, 37, M.A, 38, Ph.D, 54. Instr. govt, Columbia, 37; liaison officer, Pub. Admin. Clearing House, 38-41; div. asst. cultural rels, U.S. Dept. State, 41-42, regional specialist, Off. Int. Info. & Cultural Affairs, 46-48; vis. prof. polit. sci, Puerto Rico, 48-50; asst. prof, Notre Dame, 51-56, assoc. prof, 56-60; for. affairs, Virginia, 60-61, prof, 61-64; PROF. GOVT. & INT. STUDIES & CHMN. DEPT, NOTRE DAME, 64- Coun. For. Rels. res. fel, 58-59. U.S.N.R, 42-46, Res, 46-53, Lt. Comdr. Polit. Sci. Asn. Political thought, ideologies and theories regarding church-state relations in Latin America. Publ: Catholicism, nationalism and democracy in Argentina; Accountable government in Argentina, For. Affairs; Dichotomies in the church, Annals. Address: Dept. of Government & International Studies, College of Arts & Letters, University of Notre Dame, Notre Dame, Ind. 46556.

KENNEDY, DR. JOHN L(YON), b. Saginaw, Mich, May 26, 13; m. 38; c. 3. PSYCHOLOGY. A.B, Stanford, 34; A.M, Brown, 36, Ph.D.(psychol), 37. Fel, Stanford, 37-39; asst. prof. psychol, Tufts, 39-42, assoc. prof, 45-47, prof, univ. & dir. inst. appl. exp. psychol, 47-51, chmn. dept. psychol, univ, 45-51; tech. aide appl. psychol. panel, Off. Sci. Res. & Develop, 43-45; res. psychologist, Rand Corp, 51-57; Dorman T. Warren prof. psychol, Princeton, 57-67, chmn. dept, 58-66; V.PRES, INST. ED. DEVELOP, NEW YORK, 66- Fel, Center Adv. Study Behav. Sci, 54-55; vis. prof, Princeton, 66- Indust. & govt. consult. AAAS; fel. Psychol. Asn; Soc. Exp. Psychol; Ed. Res. Asn. Industrial social psychology; systems research; electroencephalography. Publ: A possible artifact in electroencephalography, Psychol. Rev; The system approach: organizational development, J. Human Factors Soc. Am; ed, Handbook of human engineering data for design engineers. Address: 57 Balsam Lane, Princeton, N.J. 08540.

KENNEDY, DEAN JOHN W(ESLEY), b. Spencer, N.C, Oct. 9, 20; m. 42; c. 3. ECONOMICS. A.B, Duke, 42, A.M, 47; Ph.D, North Carolina, Chapel Hill, 51. Asst. prof. econ. & bus. admin, Florida, 49-52; assoc. prof, Auburn, 52-55, prof, 55-56; prof. econ. & head dept, NORTH CAROLINA, GREENSBORO, 56-67, acting dean GRAD. SCH, 64-66, DEAN, 66- Arbitrator, Fed. Mediation & Conciliation Serv, State Dept. Labor, N.C. & Am. Arbit. Asn. U.S.N.R, 42-45, Lt. Econ. Asn; Indust. Rels. Res. Asn. Labor economics; economic theory; public policy. Publ: Co-auth, Applied economics, A problem manual in economic theory & Compensation for injured local public employees, Munic. South. Address: Graduate School, University of North Carolina at Greensboro, Greensboro, N.C. 27412.

KENNEDY, DR. KENNETH ADRIAN RAINE, b. Oakland, Calif, June 26, 30; div. PHYSICAL ANTHROPOLOGY. A.B, California, Berkeley, 53, M.A, 54, Nat. Sci. Found. fel, 60-61, Ph.D.(anthrop), 62. Instr. ANTHROP, California, Berkeley, 62-63; vis. prof, Deccan Col. Post-Grad. & Res. Inst, Poona, India, 63-64; asst. prof, CORNELL, 64-68, ASSOC. PROF, 68- Nat. Sci. Found. fel, 63-64. Asn. Phys. Anthrop; fel. Am. Anthrop. Asn; Fel. Royal Anthrop. Inst. Gt. Brit. & Ireland. Paleoanthropology of South Asia; especially physical anthropology of early man; prehistoric archaeology of Asia; history of physical anthropology; ecology and behavior of primates. Publ: A biochemical analysis of human remains from Gua Cha, Kalantan, Malaya, Man, 64: 77-79; Human skeletal material from Ceylon, with an analysis of the island's prehistoric and contemporary populations, Bull. of Brit. Mus.(Nat. Hist), 65; Human skeletal remains from Chalcolithic and Indo-Roman levels from Nevasa: an anthropometric and comparative analysis, Deccan Col. Bldg. Centenary & Silver Jubilee Series 55, 66. Address: Dept. of Anthropology, Cornell University, College of Arts & Sciences, Ithaca, N.Y. 14850.

KENNEDY, PROF. LEO RAYMOND, b. Alexandria, S.Dak, Aug. 25, 03; m. 31; c. 1. PSYCHOLOGY. A.B, Creighton, 24, M.A, 25; Minnesota, 26-28; Ph.D. (learning, measurement), Nebraska, 30. Instr. Latin, Creighton Prep. Sch, 24-25; ed, St. Mary's Col.(Minn), 25-27; asst. prof, Creighton, 30-37; prof. & dean, St. Louis, 37-43; dir. personnel, A.S. Aloe Co, Mo, 43-44; prof. ed, counseling center, Marquette, 44-46; prof. ed. & psychol. & chmn. dept, CREIGHTON, 46-64, PROF. PSYCHOL. & CHMN. DEPT, 64- Counseling psychology; personality. Address: Dept. of Psychology, Creighton University, Omaha, Nebr. 68131.

KENNEDY, PROF. RALPH DALE, Acct, Econ, see 10th ed, Soc. & Behav. Vols, deceased 65.

KENNEDY, DR. ROBERT E(MMET), JR, b. Chicago, Ill, Oct. 7, 37; m. 60. SOCIOLOGY, DEMOGRAPHY. B.A, Missouri, Columbia, 59; M.A, Columbia, 61; Ph.D.(sociol), California, Berkeley, 67. ASST. PROF. SOCIOL, MINNESOTA, MINNEAPOLIS, 67- U.S.A.R, 61-63, 1st Lt. Sociol. Asn; Pop. Asn. Am; Geront. Soc. Population trends in Ireland, 1841-1966. Publ: The Protestant ethic and the Parsis, Am. J. Sociol, 7/62. Address: Dept. of Sociology, University of Minnesota, Minneapolis, Minn. 55455.

KENNEDY, PROF. RUBY JO REEVES, b. Sanger, Tex, Nov. 5, 08; m. 39; c. 1. SOCIOLOGY. A.B, Tex. State Col. Women, 29; A.M, Yale, 36, Ph.D, 38. Asst, inst. human rels, Yale, 31-36; asst. dir. sampling, urban study, bur. labor statist, U.S. Dept. Labor, 36-37; instr, Tex. State Col. Women, 38-39, asst. prof, 39-41; instr, Vassar Col, 41-42, asst. prof, 42-44, assoc. prof, 44-45; PROF. SOCIOL, CONN. COL, 45- Consult. psycho-soc. study sect, voc. rehab. div, Dept. Health, Welfare & Ed, 64-67. Sociol. Asn; Asn. Ment. Deficiency. Marriage; mental deficiency. Publ: The social adjustment of morons in a Connecticut community; Marriage and family living; The papers of Maurice R. Davie. Address: Dept. of Sociology, Connecticut College, New London, Conn. 06320.

KENNEDY, DEAN S(ABE) M(cCLAIN), JR, b. Wootton, Colo, May 1, 23; m. 46; c. 2. GOVERNMENT. B.A, Tex. Tech. Col, 43, M.A, 46; fel, Colorado, 50-51, Ph.D.(polit. sci), 52. Instr. GOVT, TEX. TECH. COL, 46-49, asst. prof, 49-53, assoc. prof, 53-57, PROF, 57-, V.PRES. ACAD. AFFAIRS, 66-, acting asst. dean sch. arts & sci, 52-53, asst. dean, 55-59, acting dean, 59-61, dean, 61-66. U.A.S, 43-46, Res, 46-, Maj. Polit. Sci. Asn. European government; political geography; administration in higher education. Address: Vice President for Academic Affairs, Texas Technological College, Lubbock, Tex. 79409.

KENNEDY, PROF. T(OLBERT) H(ALL), b. Martin, Tenn, May 21, 06. SOCIOLOGY. A.B, Abilene Christian Col, 28; A.M, Peabody Col, 41; Ph.D, Vanderbilt, 42. Supt, high sch, 25-41; PROF. soc. sci, Mid. Tenn. State Col, 41-44; SOCIOL, WASHINGTON STATE, 44-, SR. DEAN. COL. SCI. & ARTS, 63-, assoc. dean, 51-63, chmn. div. soc. sci, 46-51. Fulbright-Hayes lectr, S.Africa, 66. Race relations. Address: College of Sciences & Arts, 141 Todd Hall, Washington State University, Pullman, Wash. 99163.

KENNEDY, PROF. VAN DUSEN, b. Darjeeling, India, Oct. 4, 14; U.S. citizen; m. 45; c. 1. ECONOMICS. A.B, Swarthmore Col, 35; Ph.D.(econ), Columbia, 45. Asst. prof. INDUST. RELS, CALIFORNIA, BERKELEY, 47-52, assoc. prof, 52-57, PROF, 57-, ASSOC. RES. ECONOMIST, INST. INDUST. RELS, 52- Fulbright res. grant, India, 53-54; fel. res. in India, Am. Inst. Indian Studies, 64-65. Ford Found. consult, 59-60. American unionism and industrial relations; industrial relations and economic development in South Asia. Publ: Union policy and incentive wage methods; Nonfactory unionism and labor relations; Unions, employers and government, Manaktalas, Bombay, 66. Address: 673 Oberlin Ave, Berkeley, Calif. 94708.

KENNEDY, PROF. WALLACE A, b. Monteverde, Fla, Apr. 2, 29; m. 50; c. 4. CLINICAL PSYCHOLOGY. A.B, Fla. State, 51, M.A, 52, Ph.D.(clin.psychol), 56. Fel, S.C. Ment. Health Div. Clin, 55-56; fel. community ment. health,

Harvard Med. Sch, 56-57; asst. prof. PSYCHOL, FLA. STATE, 57-62, assoc. prof, 62-67, PROF, 67- Chmn, Human Develop. Clin, 57-; consult, Archbold Mem. Hosp, 59- Psychol. Asn; Soc. Res. Child Develop. Behavior therapy; normative study of Negro ability; legal problems in psychology. Publ: A follow up normative study of Negro intelligence and achievement, Fla. State Univ, 65; Normative sample of intelligence and achievement of Negro elementary school children, Child Develop, 63; School phobia, rapid treatment of 50 cases, J. Abnorm. Psychol, 8/65. Address: Dept. of Psychology, Florida State University, Tallahassee, Fla. 32306.

KENNEDY, PROF. WILLIAM F(RANCIS), b. Patchogue, N.Y, June 25, 11; m. 40; c. 3. ECONOMICS. B.A, Columbia, 33, M.A, 36; fel, Brookings Inst, 39-40; Ph.D, Wisconsin, 41. Statistician, Trustees Assoc. Gas & Elec. Corp, 40-42; economist, off. war utilities, War Prod. Bd, 42-43; from asst. prof. to PROF. ECON, CALIFORNIA, SANTA BARBARA, 46- Soc. Sci. Res. Coun. fel, 42; Guggenheim fel, 59-60. U.S.N.R, 43-46, Lt. Econ. Asn. History of economic thought; public utility economics. Publ: The objective rate plan, Columbia, 37; Humanist versus economist: the economic thought of Coleridge, Univ. California, 58; John R. Commons: conservative reformer, West. Econ. J, 62. Address: 275 Arboleda Rd, Santa Barbara, Calif. 93105.

KENNELLY, PROF. ROBERT A(NDREW), b. Jamestown, N.Dak, Oct. 6, 19; m. 46; c. 3. GEOGRAPHY. B.A, Iowa, 48, M.A, 50, Ph.D, 52. Asst. prof. GEOG, CALIF. STATE COL. LONG BEACH, 52-57, assoc. prof, 57-61, PROF, 61-, chmn. div. soc. sci, 57-64. Assoc. dean acad. planning, Trustees Calif. State Cols, 64-67; interim v.pres. admin, Calif. State Col. Hayward, 67- U.S.A.F, 42-45, Res, 45-, Lt. Col. Asn. Am. Geog. Economic geography; location of industry; Latin America. Publ: Ed, The California geographer; auth, Location of the Mexican steel industry, Revista Geografica; Cattle-feeding industry of the Imperial Valley, Yearbook Asn. Pac. Coast Geogrs. Address: 17869 Almond Rd, Castro Valley, Calif. 94546.

KENNELLY, DR. THOMAS WILLIAM, b. Buffalo, N.Y, Mar. 24, 10; m. 51; c. 1. PSYCHOLOGY. B.A, Buffalo, 32, M.A, 33; Minnesota, 33-34; Ph.D. (psychol), Columbia, 41. Instr. psychol, Buffalo Collegiate Center, 35-38; psychologist, Board Ed, Niagara Falls, N.Y, 38-42, dir. res. & guid, 45-48; prof. psychol. & dir. psychol. clin. & counseling center, Buffalo, 48-52; chief clin. psychologist, Vet. Admin. Hosp, Reno, Nev, 52-54, chief psychol. training unit, Vet. Admin, San Francisco Bay Area, 54-56, chief psychologist, Mich, Ohio, Ind. & Ky. Areas, 56-57, DIR. PSYCHOL. SERV, VET. ADMIN. HOSP, PALO ALTO, 57- Consult. prof, Stanford, 57- U.S.N, 42-45, Lt. Comdr. AAAS; Psychol. Asn. Clinical psychology; administration of research and training programs in behavioral sciences. Address: Psychology Service, Veterans Administration Hospital, Palo Alto, Calif. 94304.

KENNEY, PROF. CHARLES D(AVIS), b. Harrisburg, Pa, Mar. 10, 23; m. 43; c. 3. INTERNATIONAL RELATIONS. A.B, Syracuse, 48, M.A, 49, scholar & Ph.D.(int. rel), 51. Asst. prof. polit. sci, New Mexico Highlands, 51-52; from asst. prof. to assoc. prof. pub. affairs, Harding Col, 52-54; from instr. to assoc. prof. soc. sci, Mich. State, 54-64, PROF. POLIT. SCI, WIS. STATE, SUPERIOR, 64-, CHMN. DEPT, 67-, DIR. INT. ED, 66- Sig.C, U.S.A, 43-46. Polit. Sci. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci. Soviet law and politics; international law and organization. Publ: Twentieth C.P.S.U. Congress: a study in calculated moderation, Am. Polit. Sci. Rev; The Twentieth C.P.S.U. Congress and the 'new' Soviet Union, West. Polit. Quart; Soviet foreign policy: a lesson in 'creative Marxism' and 'Communist morality', World Affairs Quart. Address: 3103 John Ave, Superior, Wis. 54880.

KENNEY, DR. JAMES B(ENSON), b. Ft. Smith, Ark, Dec. 20, 29; m. 56; c. 2. EDUCATIONAL ADMINISTRATION, COMPUTER SCIENCE. B.S.E, Arkansas, 52, M.Ed, 60, E.D, 64. Teacher, high sch, Ark, 55-56; elem. sch, Mo, 56-57, high sch, 57-58, asst. prin, 58-62; ASST. PROF. ED. ADMIN, GEORGIA, 64- Prin. investr, res. training projs, Pub. Sch. Personnel & State Dept. Ed. Personnel, 66; Kettering Found, 66-67. U.S.M.C, 47; U.S.A, 52-55, 1st Lt. Asn. Ed. Data Syst; Ed. Res. Asn. Group interaction analysis and methods and systems for computer-based information retrieval. Publ: Co-auth, EDP systems in public management, Rand McNally, (in press); auth, A flow chart sequence for computer scheduling: from registration to grade reporting, J. Exp. Res, 65; co-auth, A comparison of the organizational climates of Negro and White elementary schools, J. Psychol, 65. Address: College of Education, University of Georgia, Athens, Ga. 30601.

KENNEY, PROF. JOHN P(AUL), b. Morristown, S.Dak, Apr. 6, 20; m. 48; c. 4. CRIMINOLOGY, PUBLIC ADMINISTRATION. A.B, California, Berkeley, 44; M.S, Southern California, 52; Ph.D.(polit. sci), California, Los Angeles, 63. Police officer, City Berkeley, 42-47; dir. police sci, Col. Sequoias, 47; consult, Calif. Youth Authority, 47-50; prof. pub. admin, Southern California, 50-64; dep. dir, Calif. Dept. Justice, 64-66; PROF. CRIMINOL, CALIF. STATE COL. LONG BEACH, 66- Consult, off. pub. safety, U.S. Agency Int. Develop, 57- Summers, lectr, inst. community develop. & serv, Mich. State, 67, consult, Col. Guam, 67. Soc. Criminol.(pres, 57-58); Soc. Pub. Admin. Administration, management and organization of the police function; role of the police in juvenile control; redefinition and refinement of crime classifications. Publ: The California police, 64, co-auth, Policework with juveniles, 3rd ed, 65 & Police operations: policies and procedures, 2nd ed, 68. Address: Dept. of Criminology, California State College, 6101 Seventh St, Long Beach, Calif. 90801.

KENNEY, DR. RAYMOND C(ARROLL), b. Andover, Mass, Dec. 8, 20; m. 46; c. 1. PSYCHOLOGY. A.B, Tufts, 45, A.M, 48; Ph.D, Texas, 59. Instr. ed. & psychol, Rhode Island, 48-53, asst. prof, 53-55; asst. dean students, Texas, 55-59, counsr. trainer, 59; psychol. consult. exec. develop. dept, INT. BUS. MACH. CORP, 59-62, staff psychologist, 62-64, prog. dir. exec. resources, 64-66, DIR. FINANCIAL MGT. DEVELOP. PROG, 66- Vis. lectr, Tex. State Col. for Women, 52. Psychologist, Bridgewater State Hosp. & State Farm, Mass, 48-49. U.S.N, 41-46, Lt.(jg). Psychol. Asn; Personnel & Guid. Asn. Self theory; techniques of appraisal and assessment of executives in industry; psychotherapy. Publ: Self perceptions in counselor trainees. Address: 111 Mackey Ave, Port Washington, N.Y. 11050.

KENNY, PROF. DOUGLAS T(IMOTHY), b. Victoria, B.C, Oct. 20, 23; m. 50; c. 1. PSYCHOLOGY. B.A, British Columbia, 45, M.A, 47; Ph.D.(psychol), Washington (Seattle), 52. From lectr. to assoc. prof. PSYCHOL, BRITISH COLUMBIA, 50-64, PROF, 64-, PROF. HEAD, 65- Vis. prof, grad. sch. ed, Harvard, 63-65. Award, Can. Coun, 59. Am. Psychol. Asn; Can. Psychol. Asn. Learning; human development; projective techniques. Publ: Stimulus functions in projective techniques, Academic, 64; Transcendence indices, extent of personality factors in fantasy responses and ambiquity of TAT cards, J. Consult. Psychol; Testing of differences between variances based on correlated variances, Can. J. Psychol. Address: Dept. of Psychology, University of British Columbia, Vancouver 8, B.C, Can.

KENNY, DR. JOSEPH W(ILLIAM), Geog, see 10th ed, Soc. & Behav. Vols.

KENNY, PROF. MICHAEL, b. London, Eng, June 22, 23; m. 58; c. 3. ANTHROPOLOGY. B.A, Oxford, 51, dipl, 52, M.A, 57, B.Sc, 58, D.Phil.(anthrop), 67; dipl, Zurich, 50. Asst. prof. CULTURAL ANTHROP, CATHOLIC UNIV, 59, PROF, 67-, ED, ANTHROP. QUART, 61- Pan-Am. Prog. fel, 60-61; Nat. Sci. Found. res. award, 61-62; Nat. Insts. Ment. Health spec. res. fel, 66-67; summer, res. assoc. for. areas study div, American Univ, 59. Indian Army, 41-46, Capt. Fel. Anthrop. Asn; fel. Asn. Soc. Anthrop. Brit. Commonwealth. Social structure and function in rural and urban communities; patronage, social values and health; assimilation of Spanish expatriates in the twentieth century new world. Publ: A Spanish tapestry: town and country in Castile, Routledge, 61; 20th century Spanish conquistadores in Mexico, Harper, 68; Social values and health in Spain, Human Orgn, 62. Address: Dept. of Anthropology, Catholic University, Washington, D.C. 20017.

KENOYER, SISTER MARIE FRANCIS, S.L, b. Kansas City, Mo, June 14, 24. PSYCHOLOGY. A.B, Webster Col, 45; M.A, St. Louis, 56; Ph.D.(psychol), Fordham, 61. Teacher, Loretto Acad, Mo, 48-52; high sch, Mo, 52-54; teacher & acad. dean, Webster Col, 55-63; res. psychologist, Int. Bus. Mach. Corp, 63-65; ASSOC. PROF. PSYCHOL. & DIR. UPWARD BOUND PROG, WEBSTER COL, 65-, res. coordinator, Webster Inst. Math, Sci. & Arts, 65-67. Psychol. Asn. Religious education; personality theory; psychometrics; psychology of religion. Address: 8314 Big Bend, St. Louis, Mo. 63119.

KENSHALO, PROF. DAN(IEL) R(ALPH), b. West Frankfort, Ill, July 27, 22; m. 47; c. 2. PSYCHOLOGY. Ph.D.(psychol), Washington (St. Louis), 53. Asst. prof. PSYCHOL, FLA. STATE, 50-55, assoc. prof, 55-59, PROF, 59- Mem. staff, psychol. training control unit, Vet. Admin. U.S.N, 43-46, Comdr. Fel. AAAS; fel. Psychol. Asn; Psycnonomic Soc; Physiol. Soc; N.Y. Acad. Sci. Physiological psychology; sensation. Publ: Ed, International symposium on skin senses, C.C. Thomas, 68; co-auth, Spatial summation on forehead, forearm and back produced by radiant and conducted heat, J. Comp. Physiol. Psychol, 67 & Multiple temperature-sensitive spots innervated by single nerve fibers, Science, 67. Address: Dept. of Psychology, Florida State University, Tallahassee, Fla. 32306.

KENT, PROF. DONALD P, b. Philadelphia, Pa, June 4, 16; m. 41; c. 2. SOCIOLOGY. Ph.D.(sociol), Pennsylvania, 50. Asst. prof. sociol, Connecticut, 50-57, assoc. prof. sociol. & dir. inst. geront, 57-61; dir, U.S. Off. Aging, Dept. Health, Ed. & Welfare, 61-65; PROF. SOCIOL. & ANTHROP. & HEAD DEPT, PA. STATE, 65- Ed, Gerontologist. Mem. study review cmt, Nat. Inst. Health, 65-70. Geront. Soc; fel. Sociol. Asn. Gerontology. Publ: The refugee intellectual. Address: Dept. of Sociology, Pennsylvania State College, University Park, Pa. 16802.

KENT, PROF. GEORGE W, b. Franklin, Ind, Nov. 10, 26; m. 50; c. 4. EXPERIMENTAL PSYCHOLOGY. A.B, Franklin Col, 49; M.A, Oregon, 51; Wisconsin, 51-54. Asst. PSYCHOL, Oregon 49-51; Wisconsin, 51-54; ASSOC. PROF, BRIDGEWATER COL, 54- Summer psychologist, West. State Hosp, 59. U.S.A, 44-46. Psychol. Asn. General experimental psychology; learning processes and sensory functions. Address: Dept. of Psychology, Bridgewater College, Bridgewater, Va. 22812.

KENT, DR. HOWARD R, b. Brooklyn, N.Y, Nov. 9, 12; m. 41; c. 1. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 49; M.A, Columbia, 51, Ph.D, 56. Trainee clin. psychol, Vet. Admin, 50-54; sr. psychologist, Mid-Nassau Community Guid. Center, 52-58; coordinator spec. ed, Massapequa Pub. Schs, N.Y, 56-64; instr. psychol, teachers col, Columbia, 56-64. Clin. psychologist, Indust. Home for Blind, 52-54; private practice clin. psychol, 52-Consult, Lavelle Sch. Blind Children & Roslyn Coop. Nursery Sch, 53-56; res. consult, United Epilepsy Asn. Chmn. clin. adv. bd, N.Y. Asn. Brain-injured Children, 59-63. U.S.A, 43-46, Sgt. Psychol. Asn; Asn. Ment. Deficiency. Education and rehabilitation of handicapped children; behavior pathology and deviation; child development; theory and measurement of intelligence; psychodiagnosis and psychotherapy. Address: 295 Lakeview Ave, Rockville Centre, N.Y. 11570.

KENT, PROF. KATE PECK, b. Washington, D.C, May 10, 14; m. 38; c. 3. ANTHROPOLOGY. A.B, Denver, 35; Columbia, 35-37; grant, Arizona, 45-47, M.A, 50; Am. Philos. Soc. fel, 52. Curator Indian art, Denver Art Mus, 37-38, native art, 42-44; ASST. PROF. ANTHROP, DENVER, 66-, res. grant, 66-67. Anthrop. Asn; Ethnol. Soc; African Studies Asn. Primitive arts and industries, especially textile technology; African ethnohistory and art. Publ: Montezuma Castle archaeology, Part 2, Textiles, Southwest. Monuments Asn, 54; Cotton and cotton weaving in the prehistoric Southwestern United States, Trans. 45, Am. Philos. Soc, 55; The story of Navaho weaving, Heard Mus, 61. Address: 2930 E. Iliff Ave, Denver, Colo. 80210.

KENT, PROF. LEONARD, b. Statesboro, Ga, Apr. 6, 14. STATISTICS, ECONOMICS. Fel, Chicago, 39-41, Ph.D.(statist, econ), 50. Asst. prof. statist, Chicago, 46-50; chief statistician & analyst, res. dept, Needham, Louis & Brorby, Inc, 50-59, dir. res. & v.pres, 59-65; prof. econ, ILLINOIS, CHICAGO, 65-66, assoc. dean col. bus, 66-67, PROF. QUANT. METHODS & COORDINATOR, 67- Lectr, univ. col, Chicago, 50- U.S.N.R, 43-46, Lt. Statist. Asn; Econ. Asn; Economet. Soc; Inst. Math. Statist. Communications; marketing; applications of statistical techniques to business problems. Publ: Economic status of the legal profession in Chicago; Analysis of mar-

keting significance of standard metropolitan areas; Syllabus of elementary statistics. Address: Dept. of Quantitative Methods, University of Illinois at Chicago Circle, 2601 University Hall, Chicago, Ill. 60680.

KENT, DR. NEIL DAVIS, b. Shreveport, La, Oct. 9, 28; m. 50; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Baylor, 49, M.A, 52; Kentucky, 50-51; Cincinnati, 52-53; Ph.D, Indiana, 58. Asst. psychol, Off. Naval Res. Proj, Indiana, 54-56, teaching assoc, univ, 56-57; from instr. to asst. prof, La. State, 57-59; asst. prof, Okla. State, 59-61; Grinnell Col, 61-65; PROF. EXP. PSYCHOL, WESTERN MICHIGAN, 65- Res. intern, Vet. Admin. Hosp, Indianapolis, Ind, 56-57; dir, Nat. Sci. Found-Behav. Sci. Inst, Western Michigan, 65- Consult, Ft. Custer State Home, 65- AAAS; Psychol. Asn. Human and animal learning and conditioning; experimental analysis of behavior. Publ: Co-auth, An attempt to employ ECS as an unconditioned stimulus in a classical conditioning experiment, Proc. Okla. Acad. Sci, 60; A multipurpose discrimination apparatus for general laboratory use, Psychol. Reports, 60; Long term effects of contingent and non-contingent shock, Proc. Iowa Acad. Sci, 66. Address: Dept. of Psychology, Western Michigan University, Kalamazoo, Mich. 49001.

KENT, PROF. RAYMOND P(ATRICK), b. Latrobe, Pa, Mar. 17, 09; m. 41; c. 3. FINANCE. B.S, Pittsburgh, 31, A.M, 34, Ph.D.(econ), 38; summers, Chicago, 35, 36. Prof. econ. & acct, St. Vincent Col, 32-38; from instr. to PROF. FINANCE, NOTRE DAME, 38- Summer, vis. prof, Utah, 61. Econ. Asn; Finance Asn. Monetary and banking theory and practice; fiscal policy; business finance. Publ: Manual for instructors in money and banking; Money and banking; Corporate financial management. Address: Box 114, University of Notre Dame, Notre Dame, Ind. 46556.

KENT, DR. ROSEMARY (CHRISTINE) M(AY), Pub. Health, see 11th ed, Phys. & Biol. Vols.

KENT, DR. SHERMAN, b. Chicago, Ill, Dec. 1, 03. POLITICAL SCIENCE. Ph.B, Yale, 26, Ph.D, 33. Instr. hist, Yale, 28-30, 33-36, from asst. prof. to prof, 36-53, dir. gen. studies, grad. sch, 40-41; chief Mediterranean Sect, div. spec. info, Off. Coordinator Info, 41-43; Europe-Africa Div, Off. Strategic Serv, 43-45; acting dir. off. res. & intel, U.S. Dept. State, 46; mem. civilian staff & consult, Nat. War Col, 46-47; from dep. asst. dir. to dir. & chmn. bd. nat. estimates, Cent. Intel. Agency, 50-67; fel. hist. res, Ford Found, 68. Award, Nat. Civil Serv. League, 61; President's Award distinguished civilian serv, 67. Hist. Asn. French political history from 1815-1848; rights of man and citizen. Publ: Electoral procedure under Louis Philippe, Yale, 37; Writing history, Appleton, 41; Strategic intelligence for American world policy, Princeton, 48. Address: 2824 Chain Bridge Rd. N.W, Washington, D.C. 20016.

KENT, DR. SHERMAN VAN NESS, b. Philadelphia, Pa, Dec. 12, 19; m. 38; c. 1. PSYCHOLOGY. B.S.E, West Chester State Col, 36; M.S. Pennsylvania, 41; Ed.D.(psychol), Temple, 63. Teacher, Scott High Sch, 36-43; dir. training, New Cumberland Army Serv. Forces Depot, 43-45; supv. prin, Damascus Twp. Schs, 45-46; dir. second session, RIDER COL, 46-50, dir. freshmen, 50-52, asst. dean students, 52-58, DEAN EVE. SCH, 58- Psychol. Asn. Gerontology; abnormal psychology. Publ: An evaluation of factors associated with the length of retention of patients over fifty in a state mental hospital, Dissertation Abstracts, 66. Address: Dept. of Psychology, Rider College, Box 298, Trenton, N.J. 08602.

KENWARD, DR. JOHN F, Pediat, Psychiat, see 11th ed, Phys. & Biol. Vols.

KENWORTHY, PROF. ELDON GORDON, b. Pasadena, Calif, May 27, 35; m. 56; c. 2. POLITICAL SCIENCE. B.A, Oberlin Col, 56; M.A, Yale, 63; Soc. Sci. Res. Coun. fel, Argentina, 64-65. ASST. PROF. GOVT, CORNELL, 66- Polit. Sci. Asn. Latin American politics; political development. Publ: Argentina: the politics of late industrialization, For. Affairs, 4/67; Black-white at home, North-South abroad, Yale Rev, winter 67. Address: Dept. of Government, Cornell University College of Arts & Sciences, Ithaca, N.Y. 14850.

KENYON, EUNICE L(ENORA), b. Corfu, N.Y, June 19, 21. CLINICAL PSYCHOLOGY. B.Ed, State Univ. N.Y, 42; Buffalo, 49-50, summer, 46; M.A, City Col. New York, 52. Teacher elem. sch, N.Y, 42-48; asst. dir. blind adults, testing & eval. center, Buffalo Asn. for Blind, 49-50, pre-sch. psychologist & admin. asst, blind children, psychol. guid. serv, New York Asn. Blind, 50-52; EXEC. DIR, CENTER BLIND CHILDREN, 52- Mem, Coun. Except. Children, 54. Psychol. Asn. Diagnosis and treatment of emotional disorders of blind children. Publ: Co-auth, Problems of adjustment associated with handicapping conditions in childhood; Understanding your blind child; Guide to the use of the Maxfield Fjeld adaptation of the Vineland social maturity scale for use with visually handicapped preschool children. Address: 147 S. Huntington Ave, Boston, Mass. 02130.

KENYON, PROF. GORDON, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KENYON, DR. G(RANT) Y, b. Newark, N.J, Oct. 19, 21; m. 45; c. 2. PSYCHOLOGY. B.S, Wichita, 49, M.A, 51; Ph.D.(psychol), Rochester, 57. Instr. PSYCHOL, Washburn, 55-56; from asst. prof. to assoc. prof, WICHITA STATE, 56-65, PROF, 65-, Nat. Inst. Ment. Health grant, 59-60. U.S.N, 43-46. AAAS; Psychol. Asn. Developmental, clinical, abnormal and physiological psychology. Address: Dept. of Psychology, Wichita State University, Wichita, Kans. 67208.

KENYON, DR. JAMES B(YRON), b. Mt. Vernon, N.Y, May 22, 27; m. 51; c. 3. GEOGRAPHY. A.B, Harvard, 51; A.M, Chicago, 53, Salisbury scholar, 56, univ. fel, 56-57, Ph.D, 60. City planner, Chicago Park Dist, 53-56; res. asst, area planning study, Metrop. Housing & Planning Coun. of Chicago, 56-57; planning economist, Port of N.Y. Authority, 57-65; ASST. PROF. GEOG, GEORGIA, 65- Lectr, Gary Center, Indiana, 55-60; eve. lectr, City Col. New York, 60-65. U.S.N, 45-47. Asn. Am. Geog. Land planning; urban geography. Publ: Industrialization location and metropolitan growth; the Paterson Passiac District; Industrialization of the Skokie Area; Freight transportation trends associated with the suburbanization of industry, Ann. Asn. Am. Geog. Address: Dept. of Geography, University of Georgia, Athens, Ga. 30602.

KENYON, DR. JOHN, b. Sale, Eng, Aug. 25, 31; m. 55; c. 4. PSYCHOLOGY. Edinburgh, 56; Nat. Res. Coun. Can. fel. & Ph.D.(physiol. psychol), McGill, 62. Asst. psychol, Allan Mem. Inst, McGill, 57-58, univ, 58-61; asst. prof, Fairfield, 61-65; psychologist, Kennedy Center, Conn, 62-64, res. dir, 63-64; res. asst. prof. PSYCHOL, Illinois, Urbana, 65-66; ASST. PROF, COLBY COL, 66- Vis. scientist, Jackson Lab, summer, 65- Planning coordinator, Cmt. Probs. of Retarded, Maine, summer, 67, consult, 67- AAAS; Animal Behavior Soc; Brit. Psychol. Soc. Comparative-developmental approach to behavior as seen through human historical development of psychological theories and cross-species behavior comparisons, leading to evaluation of thought and speech in humans. Publ: Co-auth, Enhanced avoidance behavior following septal lesions in the rat as a function of lesion size and spontaneous activity, J. Comp. & Physiol. Psychol, 65; co-auth, Decrements in one-way avoidance behavior following septal lesions in rats, 66 & visual cliff behavior of mice as a function of genetic difference in eye characteristics, 66, Psychonomic Sci. Address: Dept. of Psychology, Colby College, Waterville, Maine 04901.

KENYON, DR. JOHN G(ILBERT), b. Oct. 23, 14; m. 50; c. 3. SOCIAL SCIENCE. A.B, Iowa, 41, A.M, 48; D.S.S.(soc. sci), Syracuse, 65. Asst, Iowa, 47-48; asst. prof. econ. & sociol, Kansas State, 48-56; asst. SOCIOL, Syracuse, 56-57; asst. prof, LEWIS & CLARK COL, 57-65, ASSOC. PROF, 65- Dir. Portland Pub. Schs. Soc. Studies Inst, 62; res. grant dir, Sch. Serv. Prog. Elderly, 66-68. Sociol. Asn; Acad. Polit. & Soc. Sci. Publ: Co-auth, Man in society. Address: 2512 S.W. Huber St, Portland, Ore. 97219.

KEOHANE, DR. ROBERT O, b. Chicago, Ill, Oct. 3, 41; m. 62; c. 2. POLITICAL SCIENCE. B.A, Shimer Col, 61; Woodrow Wilson fels, Harvard, 61-62, 64-65, univ. fel, 62-63, Ph.D.(polit. sci), 66. Instr. POLIT. SCI, SWARTHMORE COL, 65-67, ASST. PROF, 67- Coun. For. Rels. Int. Affairs fel, 68-69. Polit. Sci. Asn. Politics in United Nations General Assembly; influence of small American allies on United States foreign policy. Publ: Political influence in the General Assembly, Int. Conciliation, 3/66; The study of political influence in the General Assembly, Int. Orgn, spring 67. Address: Dept. of Political Science, Swarthmore College, Swarthmore, Pa. 19081.

KEOWN, PROF. WILLIAM H(AMILTON), b. Madison, Wis, Dec. 24, 14; m. 43; c. 2. BUSINESS MANAGEMENT, INDUSTRIAL RELATIONS. A.B, Wisconsin, 36, M.B.A, 47, Ph.D, 54. Instr, Wisconsin, 47-48; dir. indust. rels, Louisville Rwy. Co, Ky, 48-49; from asst. prof. to DAVID ROSS BOYD PROF. MGT, OKLAHOMA, 49- Econ. Asn; Indust. Rels. Res. Asn; Acad. Polit. & Soc. Sci; Acad. Mgt. Personnel management, labor relations. Publ: Some dimensions of company union downward communication. Address: College of Business Administration, University of Oklahoma, Norman, Okla. 73069.

KEPHART, PROF. NEWELL CARLYLE, b. Parker, Kans, Jan. 24, 11; m. 45. EDUCATIONAL PSYCHOLOGY. A.B, Denver, 32; M.A, 33; Ph.D.(child welfare), Iowa, 36. Ment. hygienist, Wayne County Training Sch, Mich, 36-41; from asst. prof. to PROF. PSYCHOL. & ED, PURDUE, 45- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N.R, 42-45. Mental growth of children; personality disorders of children. Publ: Co-auth, Psychopathology and education of the brain-injured child, Success Through Play & The Purdue perceptual-motor survey, C.E, Merrill, 66. Address: Dept. of Psychology, Purdue University, Lafayette, Ind. 47907.

KEPHART, PROF. W(ILLIAM) M, b. Philadelphia, Pa, Mar. 30, 18; m. 47; c. 1. SOCIOLOGY. A.B, Franklin & Marshall Col, 41; M.A, Pennsylvania, 48, Ph.D, 50. From asst. prof. to PROF. SOCIOL, PENNSYLVANIA, 47-, ASSOC. CHMN. DEPT, 62- Res. consult; consult, U.S. Vital Statist. Div, 61. U.S A, 41-46, Lt. Sociol. Asn. Family research; social psychology; intra-group relations. Publ: Racial factors and urban law enforcement; The family, society and the individual; Occupational level and marriage disruption, Am. Sociol. Rev. Address: 1100 Foss Ave, Drexel Hill, Pa. 19026.

KEPNER, DR. CHARLES D(AVID), b. Newton, Mass, July 29, 93. SOCIOLOGY. A.B, Williams Col, 16; A.M, Harvard, 17; S.T.B, Andover Theol. Sem, 22; Chicago, 28, 29; Ph.D, Columbia, 36. Minister, Presby. Church of Sea & Land, N.Y, 22-25; assoc. minister, N.Congregational Church, Portsmouth, N.H, 26-28; minister, Congregational Church, Stafford Springs, Conn, 29-36; prof. sociol, Schauffler Col. Relig. & Soc. Work, 36-46; assoc. prof, Dickinson Col, 46-47, prof. 47-63, chmn. dept, 49-63, spec. work, 64-65; vis. prof, Gettysburg Col, 63-64; assoc. prof, Philander Smith Col, 65-67; RETIRED. Lectr, Cleveland Col, Western Reserve, 44-46. Sociol. Asn. Publ: Social aspects of the banana industry; sr. auth, The banana empire, a case study in economic imperialism. Address: 373 W. North St, Carlisle, Pa. 17013.

KEPNER, DR. CHARLES HIGGINS, b. La Verne, Calif, Feb. 14, 22; m. 41; c. 2. SOCIAL PSYCHOLOGY. B.A, Fresno State Col, 50; M.S, Oregon, 51; fel, Michigan, 53-54, Ph.D, 56. Dir. res, Royal Cmn. Agr. & Rural Life, Sask, Can, 51-53; res. consult. rehab. of schizophrenics, med. sch. Saskatchewan, 53-55; soc. scientist, adv. defense systs. res, Rand Corp, 56-58; PRIN, KEPNER-TREGOE & ASSOCS, INC, MGT. CONSULT, 58- U.S.N.R, 43-45. AAAS; Psychol. Asn; Sociol. Asn. Process of thinking; problem analysis and decision making; industrial and scientific management; adult learning methods; creativity; evaluation and selection of management personnel; teaching of management; underdeveloped countries. Publ: Co-auth, The rational manager, McGraw, 65; Rehabilitation of schizophrenics; Problem solving and decision making. Address: Kepner-Tregoe & Associates, Inc, P.O. Box 704, Research Rd, Princeton, N.J. 08540.

KEPNER, DR. ELAINE FREEMAN, b. Cleveland, Ohio, Feb. 13, 20; m. 44; c. 3. PSYCHOLOGY. B.A, Western Reserve, 42, Ph.D, 60. Psychologist, Cleveland State Hosp, 56-58; Cleveland Center Alcoholism, 59-61; asst. prof. psychol, CASE WESTERN RESERVE, 61-67, PROJ. DIR. COMMUNITY MENT. HEALTH PROJ, CLEVELAND COL, 67- Fel, Cleveland Inst. Gestalt Ther, 60. Psychol. Asn; Acad. Psychother. (treas, 64-66). Alcoholism; clinical psychology; psychotherapy; community mental health, training of professionals. Publ: Application of learning theory to the etiology and treat-

ment of alcoholism, Quart. J. Studies Alcohol, Rutgers, 6/64. Address: Dept. of Psychology, Case Western Reserve, University Circle, Cleveland, Ohio 44106.

KEPNER, DR. K(ARL) W, b. Youngstown, Ohio, Nov. 12, 37; m. 58; c. 3. AGRICULTURAL ECONOMICS, MARKETING. B.S, Ohio State, 59, M.B.A, 60, Ph.D.(agr. econ), 64. Instr. AGR. ECON. & MKT, Ohio State, 61-64; asst. prof, PURDUE, 64-67, ASSOC. PROF, 67- Agr. Econ. Asn; Mkt. Asn. Food and dairy marketing. Publ: Co-auth, Quality as a dimension of competition in the fluid milk industry, 12/64, Measuring consumer brand preference, 8/67 & The validity of experimental methods for analyzing consumer behavior, 12/67, J. Farm Econ. Address: Dept. of Agricultural Economics, Purdue University, Lafayette, Ind. 47907.

KEPPERS, DR. GEORGE L(EONARD), b. Avon, Minn, Feb. 10, 15; m. 41; c. 4. PSYCHOLOGY. B.Ed, St. Cloud State Col, 37; M.A, Colo. State Col. Ed, 46; summer, Minnesota, 47 & 49; Ed.D, Colorado, 53. Teacher, pub. schs, Minn, 40-41, 46-47; instr. math, Iowa State Teachers Col, 47-51; asst. dir. guid, pub. schs, N.Mex, 53-56; assoc. prof. ED, COUNSELING & GUID, NEW MEXICO, 56-61, PROF, 61-, CHMN. DEPT. GUID. & SPEC. ED. & DIR. MANZANITA CENTER, 66- Summer lectr, Hawaii, 62-66. Consult, State Dept. Ed, N.Mex, 56-; voc. expert, U.S. Dept. Health, Ed. & Welfare, 62-66; assessment officer, Peace Corps, Univ. New Mexico, 63; consult, Lear Siegler Inc-Serv. Corp, 67. U.S.A.A.F, 41-46, Sgt. Psychol. Asn; Personnel & Guid. Asn. Group counseling of underachievers in high school; selection of students for counselor education programs. Publ: Guidance services in order of importance: a rating by specialists, Clearing House; Selection of graduate students in guidance and counseling, Voc. Guid. Quart; National certification of counselors, Asn. Counsr. Ed. & Suprv, summer 65. Address: Dept. of Guidance & Special Education, College of Education, University of New Mexico, Albuquerque, N.Mex. 87106.

KEPROS, DR. PETER G(EORGE), b. Salt Lake City, Utah, Mar. 25, 36; m. 65. PSYCHOLOGY. B.S, Utah, Nat. Inst. Health fel, 60, M.S, 63, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, NEW BRUNSWICK, 65- Nat. Res. Coun. Can. res. grant, 66-69. Am. Psychol. Asn; Can. Psychol. Asn. General experimental psychology; human learning; conceptual behavior; experimental design; verbal learning. Publ: Co-auth, Effect of post-inspection delay upon kinesthetic figural aftereffects, J. Gen. Psychol, 63 & Identification of bioconditional concepts: effects of relevant and irrelevant dimensions, Can. J. Psychol, 66. Address: Dept. of Psychology, University of New Brunswick, Fredericton, N.B, Can.

KERBER, DR. HAROLD E(UGENE), b. Torrance, Calif, Mar. 31, 23; m. 52; c. 3. ENGINEERING PSYCHOLOGY. B.A.S, California, 44, B.S, 47; M.S, Western Reserve, 51, Ph.D.(psychol), 58. Res. assoc. personnel res, Western Reserve, 50-54; staff asst, Euclid Div, Gen. Motors Corp, 54-55; asst. to dir. indust. rels, Nat. Screw & Mfg. Co, 55-58; res. assoc. eng. psychol, GOODYEAR AEROSPACE CORP, AKRON, 58-60, sect. head, 60-65, MGR. LIFE SCI. RES. DEPT, 65- Mem, cmt. driving simulation, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 66-, cmt. hwy. safety, 67- U.S.N.R, 44-46, Lt. AAAS; Human Factors Soc; Soc. Mech. Eng; Psychol. Asn. Engineering psychology; training analysis and simulator design; driver behavior and accident research; research management. Address: 289 Bentleyville Rd, Chagrin Falls, Ohio 44022.

KERCHER, PROF. LEONARD (CLAYTON), b. Bridgewater, Ohio, Dec. 15, 01; m. 38; c. 1. SOCIOLOGY. A.B, Michigan, 27, A.M, 28; Ph.D.(sociol), 39. PROF. SOCIOL, WESTERN MICHIGAN, 28-, HEAD DEPT, 45- Summers, vis. prof, Redlands, 50 & Vermont, 53, co-dir, soc. studies seminars, Ashridge Col, Eng, 51, 54, 57, Oxford, 60, 63, 66 & E.Africa, 65 & 68, co-dir, African Study Proj, 60-61. Mem, Nat. Res. Cmn. Soc. Work Ed, 52-55. Sociol. Asn; Acad. Polit. & Soc. Sci. Delinquency and crime; population trends; African studies; cooperatives; crime and delinquency in developing countries, particularly East Africa. Address: Dept. of Sociology, Western Michigan University, Kalamazoo, Mich. 49001.

KERCKHOFF, DR. ALAN C(HESTER), b. Lakewood, Ohio, Mar. 14, 24; m. 49; c. 2. SOCIOLOGY. A.B, Oberlin Col, 49; M.A, Wisconsin, 51, Ford fel, 51-52, Soc. Sci. Res. Coun. fel, 52-53, Ph.D, 54. Asst. prof. sociol, Vanderbilt, 53-55, 57-58; soc. psychologist, Air Force Personnel & Training Res. Center, 55-57; assoc. prof. SOCIOL, DUKE, 58-64, PROF, 64-, dir. grad. studies, 58-67. Nat. Sci. Found. sr. fel, 65-66. U.S.N, 43-46. Sociol. Asn. Social psychology; family; interpersonal relations. Publ: Co-auth, The June bug: a study of hysterical contagion, Appleton, 68; Value consensus and need complementarity in mate selection, Am. Sociol. Rev, 62; Role-related factors in person perception among engaged couples, Sociometry, 67. Address: Dept. of Sociology & Anthropology, Duke University, Durham, N.C. 27706.

KERCKHOFF, PROF. RICHARD K(ARL), b. Lakewood, Ohio, Feb. 27, 21; m. 46; c. 3. SOCIOLOGY. A.B, Kent State, 42; A.M, Ohio State, 50, Ph.D, 53. Publicity writer, pub. rels. off, Fenn Col, 48-49; instr. sociol, Ohio State, 49-51; teacher sociol. & adminstr, Merrill-Palmer Inst, 51-62; eval. res. specialist, Wash. Sch. Psychiat, 62-66; PROF. FAMILY LIFE, PURDUE, 66- Lectr, Michigan, 52; Maryland, 63; Teachers Col, Columbia, 65-66. Res. consult, Foster Parent Proj, D.C, 64-66; chief consult, prog. facilitate integration, Arlington County Schs, Va. 65-66. Coord, Nat. Adv. Coun. Ed. Disadvantaged Children; participant, Head Start & Title I Progs. U.S.A, 65-68. Sociol. Asn; Nat. Coun. Family Rels; Soc. Study Social Probs. Family relationships and life education; evaluation research; sociology of education. Publ: Family life education in American, In: Handbook on marriage and the family, Rand McNally, 64; The problem of the city schools, J. Marriage & Family, 11/64; Race and social class as opportunities for early childhood education, Young Children, 9/65. Address: Dept. of Child Development & Family Life, Purdue University, Lafayette, Ind. 47907.

KERLEY, PROF. DAVID MOORMAN, b. Morganton, N.C, Jan. 9, 18; m. 52; c. 1. ECONOMICS. A.B, North Carolina, 38; fel. & M.A, La. State, 39; Ph.D.(econ), American Univ, 54. Instr. math, Clemson Col, 39-40; statist. clerk, U.S. War Dept, 40-41; from jr. economist to asst. economist, U.S. Tariff Cmn, 41-43; instr. econ, Col. William & Mary, 47-48; acting asst. prof. statist, Virginia, 48-49; asst. prof, Pa. State Col, 49-50; ECON, WINTHROP COL, 52-55, assoc. prof, 55-57, PROF, 57- U.S.A, 42-46, Res, 46-, Lt. Col. Econ. Asn. Economic theory; statistics; money and banking. Address: 720 Eden Terr, Rock Hill, S.C. 29730.

KERLINGER, PROF. FRED NICHOLS, b. New York, N.Y, July 4, 10; m; c. 2. PSYCHOLOGY. B.S, N.Y. Univ, 42; M.A, Michigan, 51, Ph.D, 53. Regional civil ed. officer, civil affairs admin, U.S. Army, 47-50; asst. ed. psychol, Michigan, 51-53; asst. prof. ed. sociol. & psychol, Wayne State, 53-55; assoc. prof. ED. PSYCHOL, N.Y. UNIV, 55-60, PROF, 60- Summers, vis. lectr, Indiana, 53; vis. prof, Teachers Col, Columbia, 55. Sig.C, 42-46, 2nd Lt. AAAS; fel. Psychol. Asn. Social and educational attitude theory, factors and measurement; research design and methodology. Publ: Foundations of behavioral research, Holt, 64; The first-and second-order factor structures of attitudes toward education, Am. Ed. Res. J, 67; Social attitudes and their criterial referents: a structural theory, Psychol. Rev, 67. Address: School of Education, New York University, New York, N.Y. 10003.

KERMANI, DR. TAGHI, b. Najaf, Iraq, July 27, 29; U.S. citizen; m. 61; c. 2. ECONOMICS. LL.B, Tehran, 49; fel, Southern California, 53; M.A, Nebraska, 53, Ph.D.(econ), 59; Indiana, 64. PROF. ECON, YOUNGSTOWN STATE, 59- Prof. econ. & chmn. dept, Pahlavi Univ, Iran, 66-67. Summers, Econ-in-Action fel, Case, 59 & univ. fels. appl. econ, Chicago, 60 & Indiana, 64. Econ. Asn. Economic development and comparative economic systems. Publ: Economic development-in-action: theories, problems and procedures as applied in the Middle East, World, 67. Address: Dept. of Economics, Youngstown State University, Box 452, Youngstown, Ohio 44503.

KERN, DEAN D(ONALD) (WARREN), b. Palmerton, Pa, June 4, 16; m. 38; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Pa. State Teachers Col, East Stroudsburg, 37; M.Ed, Duke, 40; Ed.D.(ed. psychol), N.Y. Univ, 53. Teacher, high schs, N.C, 37-41; Pa, 41-42; N.J, 42-48; from assoc. prof. to PROF. PSYCHOL. & DEAN ADMISSIONS, BRIDGEPORT, 48- Psychol. Asn. Education of the gifted; psychometrics. Address: Admissions Office, University of Bridgeport, Bridgeport, Conn. 06602.

KERN, PROF. EDWARD E(VANS), JR, b. Pensacola, Fla, July 22, 21; m. 49; c. 3. AGRICULTURAL ECONOMICS. B.S, La. State, 48, M.S, 50; Econ-in-action fel, Case, 54; Sch. Banking of the South, 60-62; Nat. Sci. Found. fel. & Ph.D.(econ), Kentucky, 64. Res. assoc. agr. econ, La. State, 40; asst. prof. agr. econ. & asst. economist, Miss. State Col, 50-55; assoc. prof. agr. econ. & assoc. agr. economist, AUBURN, 55-66, PROF. ECON. & FINANCE, 66- Asst, Kentucky, 51-52; proj. dir, Bus. Exten. Prog. U.S.A, 43-45. Econ. Asn; Finance Asn. Marketing; finance; agricultural policy. Address: School of Business, Auburn University, Auburn, Ala. 36830.

KERN, JOHN K(ONRAD), Geog, see 10th ed, Soc. & Behav. Vols.

KERN, DR. RICHARD P(OPHAM), b. Des Moines, Iowa, Aug. 15, 26; m. 50; c. 2. PSYCHOLOGY. B.S, Iowa State Col, 49; M.A, Iowa, 51, Ph.D.(clin. psychol), 53. SR. RES. SCIENTIST, HUMRRO, GEORGE WASHINGTON, 58- Med. Serv. C, 51-56. Psychol. Asn. Experimental-clinical and psychological stress; psychodiagnostic evaluations; training methods. Publ: Co-auth, Field service program in military mental hygiene, Armed Forces Med. J. & Experimental studies of psychological stress in man, Psychol. Monogr, 62; auth, A conceptual model of behavior under stress with implications for combat training, HumRRO, George Washington, 66. Address: 52 Robles del Rio, Carmel Valley, Calif. 93924.

KERNAGHAN, DR. W.D. KENNETH, b. Hamilton, Ont, Dec. 18, 40; m. 63; c. 2. POLITICAL SCIENCE. B.A, McMaster, 62; M.A, Duke, 64, Ph.D. (polit. sci), 66. ASST. PROF. POLIT. SCI, Waterloo, 65-67; CARLETON (CAN), 67- Can. Coun. res. fel, 67. Am. Soc. Pub. Admin; Can. Polit. Sci. Asn; Inst. Pub. Admin. Can; Royal Inst. Pub. Admin. Public and comparative public administration; municipal and provincial government. Publ: An overview of public administration in Canada today, Can. Pub. Admin, 9/68; Political rights and activities of Canadian public servants, In: Public administration in Canada: selected readings, Methuen Pub, 68. Address: Dept. of Political Science, Carleton University, Ottawa, Ont, Can.

KERNAN, PROF. JEROME B(ERNARD), b. Cincinnati, Ohio, Nov. 22, 32; m. 54; c. 2. MARKETING. B.B.A, Cincinnati, 57; fel, Illinois, 57-59, M.S, 59, Ph.D.(bus), 62. Instr. MKT, Okla. State, 59-60, asst. prof, 60-62, assoc. prof, 62-64; vis. assoc. prof, Texas, 64-66, assoc. prof, 66-67; CINCINNATI, 67-68, PROF, 68- Ford Found. study grant, Carnegie-Mellon Univ, summer 62, Kansas, summer 63. U.S.A.F, 51-53. Mkt. Asn. Consumer behavior; quantitative models of consumer decision processes. Publ: Co-auth, Perspectives in marketing theory, Appleton, 68; auth, Paired comparisons and graph theory, 67 & Choice criteria, decision behavior and personality, 68, J. Mkt. Res. Address: Dept. of Marketing, University of Cincinnati College of Business Administration, Cincinnati, Ohio 45221.

KERNER, DR. OLIVER J(OHN) B(ERNDT), b. Brooklyn, N.Y, Feb. 10, 18; m. 58. CLINICAL PSYCHOLOGY, SOCIAL ANTHROPOLOGY. B.S, Pennsylvania, 40; Ph.D.(human develop), Chicago, 52. Asst, cmt. human rels. & cmt. human develop, Chicago, 44-50; staff psychologist, Worcester State Hosp, 50-51, lectr. psychiat, 50; instr. & res. psychol, Northwestern, 51-52; asst. prof. & chief psychologist, sch. med, North Carolina, 52-53; trainee psychol, Hines Vet. Admin. Hosp, 53-54; chief psychologist, Portal House Clin, Chicago, 54-56; RES. ASSOC, DIV. PSYCHOL, MED. SCH, NORTHWESTERN, 60-, DIR. TRAINING IN PSYCHOTHER, 62- Private practice, 56- Consult, dept. psychol, Chicago State Hosp, 55-60; Peoria State Hosp, 58; Alton State Hosp, 58-59; Vet. Admin. Res. Hosp, 60-61; dept. psychol, Elgin State Hosp, 61-65; Kankakee State Hosp, 63-65; Ill. State Psychiat. Inst, 64-; community ment. health, State Dept. Ment. Health, Ill, 65- U.S.A.A.F, 42-45, 2nd Lt. Psychol. Asn. Psychoanalysis and psychotherapy; culture and personality; community mental health; social structure of mental hospitals; Milieu therapy. Publ: Stress, fantasy and schizophrenia, Genetic Psychol. Monogr; Initiating psychotherapy with alcoholic patients, Quart. J. Studies Alcohol. Address: 30 N. Michigan St, Chicago, Ill. 60602.

KERNODLE, PROF. R(IGDON) WAYNE, b. Greensboro, N.C, Feb. 17, 19; m. 45; c. 2. SOCIOLOGY, ANTHROPOLOTY. A.B, North Carolina, 43, A.M, 45, Ph.D, 49. Instr. sociol, COL. WILLIAM & MARY, 45-47, asst. prof, 49-50, assoc. prof. SOCIOL. & ANTHROP, 51-53, PROF. & CHMN. DEPT, 53- Lectr, North Carolina, 47-49; residency training prog. psychiat, East. State Hosp, Williamsburg, 59-; Nat. Inst. Ment. Health res. grant, 65. Sociol. Asn. Family theory; culture and personality; social isolates. Publ: Last of the rugged individualists, Harper, 61; Some unsolved issues in American society; Nonmedical leaves from mental hospital, Psychiatry, 2/66. Address: Dept. of Sociology & Anthropology, College of William & Mary, Williamsburg, Va. 23185.

KERNS, DR. ROBERT D(eNEILLE), b. Monessen, Pa, Jan. 1, 25; m. 49; c. 3. PSYCHOLOGY. B.S, Pittsburgh, 49, M.S, 52, Ph.D.(psychol), 58. Investr, casework dept, West. State Penitentiary, Pa, 50-51, sr. psychologist, 52-59; asst. psychologist, Allegheny County Behav. Clin, 51-52; clin. psychologist, Vet. Admin. Hosp, Pittsburgh, 59-60, counseling psychologist, 60-61; admin. & clin. psychologist, Charleston Guid. Clin, W.Va, 61-62; supvr. div. community serv, W.VA. DEPT. MENT. HEALTH, 62-66, ASSOC. SUPVR. DIV. PRFNL. SERV, 66- U.S.C.G, 42-46. Psychol. Asn. Dynamics of criminal behavior; psychopathology. Address: West Virginia Dept. of Mental Health, 1721 Quarrier St, Charleston, W.Va. 25305.

KERPELMAN, DR. LARRY C(YRIL), b. Baltimore, Md, Jan. 27, 39; m. 67. PSYCHOLOGY. B.A, Hopkins, 58; U.S. Pub. Health Serv. fel. & Ph.D.(psychol), Rochester, 63. Asst. lectr, Rochester, 61-62; res. assoc. cognitive develop, Inst. Juvenile Res, 63-65, sr. res. assoc, 65-66; ASST. PROF. PSYCHOL, MASSACHUSETTS, AMHERST, 66- Lectr, Northwestern, 64-65; asst. prof, col. med, Illinois, 64-66. Consult, Vet. Admin, 66- AAAS; Psychol. Asn; Psychonomic Soc; Soc. Res. Child Develop. Perceptual learning and development; form discrimination; personality and attitude factors in political behavior. Publ: Pre-exposure to visually presented forms and nondifferential reinforcement in perceptual learning, J. Exp. Psychol, 69: 257-262; Personality and attitude correlates of political candidate preference, J. Soc. Psychol, 68; Stimulus dimensionality and manipulability in visual perceptual learning, Child Develop, 38: 563-571. Address: Dept. of Psychology, University of Massachusetts, Amherst, Mass. 01002.

KERR, PROF. CLARK, b. Reading, Pa, May 17, 11; m. 34; c. 3. ECONOMICS. A.B, Swarthmore Col, 32, LL.D, 52; A.M, Stanford, 33; Ph.D, California, 39; hon. LL.D, Harvard & Occidental Col, 58, Pomona Col. & Princeton, 59, Albright Col, 60, Bordeaux, 62, Brandeis, Haverford Col, Hawaii, Chinese Univ. Hong Kong, George Washington & Notre Dame, 64, Strathclyde, 65, Cath. Univ. Chile, 66, Rochester, 67, Case Western Reserve, 68. Acting asst. prof, Stanford, 39-40; from asst. prof. to assoc. prof. labor, Washington (Seattle), 40-45; dir. inst. indust. rels, CALIFORNIA, BERKELEY, 45-52, from assoc. prof. to prof. indust. rels, 45-67, univ. chancellor, 52-58, univ. pres, 58-67, PROF. ECON. & BUS. ADMIN, 67-; CHMN. & EXEC. DIR, CARNEGIE CMN. ON FUTURE OF HIGHER ED, 67- Wage stabilization dir, Nat. War Labor Bd, 10th region, 42-43, v.chmn, 12th region, 43-45, chmn, meat packing cmn, 45-47; chmn, Pac. Coast Longshore Indust, 46-47; pub. mem. & v.chmn, Nat. Wage Stabilization Bd, 50-51; contract arbitrator, Calif. Processors & Growers, Inc. & Calif. State Coun. Cannery Unions, 53-58. Mem, bd. dirs, Center Adv. Study Behav. Sci, 53-61; bd. vis, U.S. Mil. Acad, 58-59; bd. trustees, Carnegie Found. Adv. Teaching, 58-60; Rockefeller Found, 60- Cmt. secy, President's Labor-Mgt. Conf, 45; v.chmn, Am. Coun. on Ed, 53-54; mem, President's Cmn. Intergovt. Rels, 53-55; adv. panel soc. sci. res, Nat. Sci. Found, 53-57; President's Cmn. Nat. Goals, 59-60; chmn. cmn. nat. labor policy, Cmt. Econ. Develop, 59-62; mem, Conf. Higher Ed. in Am. Repubs, 59-64; chmn, Armour Automation Cmt, 59-; mem, President's Adv. Cmt. Labor Mgt. Policy, 61-65; President's R.R. Emergency Bd, 63; univ. coun, Chinese Univ. Hong Kong, 64-; Cmn. Higher Ed, Ethiopia, 66- Econ. Asn; Indust. Rels. Res. Asn.(pres, 54-55); Nat. Acad. Arbit.(v.pres, 47-48); fel. Am. Acad. Arts & Sci. Higher education; wage policy; collective bargaining; labor market structure and operation. Publ: The uses of the university, Harvard, 64; Labor and management in industrial society, Doubleday, 64; co-auth, Unions, management and the public, Harcourt, rev. ed, 67. Address: Carnegie Commission on the Future of Higher Education, 1947 Center St, Berkeley, Calif. 94704.

KERR, DR. JAMES R(ICHARD), b. Aurora, Ill, Apr. 30, 31; m. 67. POLITICAL SCIENCE. B.A, N.Cent. Col.(Ill), 53; M.A, Illinois, 54; Am. Polit. Sci. Asn. cong. fel, 61-62; Ph.D.(polit. sci), Stanford, 63. Teaching asst. POLIT. SCI, Stanford, 58-60; acting asst. prof, California, Santa Barbara, 62-63; asst. prof. GOVT, SOUTHERN ILLINOIS, EDWARDSVILLE CAMPUS, 63-66, ASSOC. PROF, 67- Summers, participant, Oak Ridge Inst. Nuclear Studies, 64, Hays-Fulbright grant, Summer Inst. in Indian Civilization, 66. U.S.A, 54-56, Res, 56-62, Sgt. Polit. Sci. Asn. American constitutional law and judicial behavior; comparative legal institutions; American civil liberties; science and government. Publ: Congressmen as overseers: overview or oversight?, Pub. Admin. Rev, 9/65. Address: Social Sciences Division, Southern Illinois University, Edwardsville, Ill. 62025.

KERR, DR. JOHN ROBERT, b. Ft. Wayne, Ind, Aug. 22, 32; m. 64; c. 1. BUSINESS ADMINISTRATION, MARKETING. A.B, DePauw, 54; M.B.A, Indiana, 62, D.B.A.(mkt), 66. Financial mkt. analyst, Gen. Elec. Co, 56-60; teaching assoc. mkt, Indiana, Bloomington campus, 61-64, faculty lectr. bus. admin. & dir. M.B.A. prog, Indianapolis campus, 64-66; ASST. PROF. MKT, FLA. STATE, 66- Mkt. consult, Prime Meridian Corp, Fla, 66- U.S.A.F, 54-56, Res, 61-64; Air Nat. Guard, 56-61, Capt. Mkt. Asn. Future income and expenditure patterns of American families by age group; market segmentation analysis: real estate, informational influences, mobility of consumers; youth market, buying patterns. Publ: Future expenditure patterns of young families, South. J. Bus, 1/67; Income and expenditure patterns: the over 65 age group, J. Geront, 1/68; co-auth, Teen-age in group versus out group brand choices, J. Retailing, spring 68. Address: Florida State University School of Business, Tallahassee, Fla. 32303.

KERR, DR. NANCY J, b. Chicago, Ill, Nov. 12, 33; div; c. 3. PSYCHOLOGY. B.S, Illinois, 58; M.A, Houston, 61, Nat. Inst. Ment. Health fel, 61-62, Ph.D. (psychol), 62. Asst. prof. psychol, ARIZONA STATE, 62-67, ASSOC. PROF. ED. PSYCHOL, 67- Consult. & U.S. Off. Ed. grant, Valley of Sun Sch. Retarded Children, 65-67. Psychol. Asn; Asn. Ment. Deficiency; Soc. Psychol. Study Social Issues. Child development; learning theory; behavioral modification in the physically handicapped and mentally retarded. Publ: Co-auth, Motivating working behavior in workmen's compensation clients, Rehab. Record, 65, A procedure for shaping vocalizations in a mute child, In: Case studies in behavior modification, Holt, 65 & Behavior modification in rehabilitation, In: Cases in behavior modification, Appleton, 67. Address: Dept. of Educational Psychology, Arizona State University, Tempe, Ariz. 85281.

KERR, PROF. THOMAS S(TONER), b. Randolph, Kans, Mar. 14, 85. POLITICAL SCIENCE, BUSINESS LAW. A.B, Indiana, 13; LL.B, Michigan, 18. Assoc. prof. polit. sci. & bus. law, IDAHO, 24-28, dean univ. jr. col, 31, dir. summer sch, 35, acting pres, univ, 37, acting dean col. letters & sci, 33, dean, 37-55, prof. POLIT. SCI, 28-61, EMER. PROF, 61-, EMER. DEAN, COL. LETTERS & SCI, 55- Exec. coordinator, Northwest Asn. Sec. & High Schs, 55-64. Business law, principles and cases. Address: 736 Homestead Place, Moscow, Idaho 83843.

KERR, DR. WILLARD A(UGUSTA), b. Brookport, Ill, Feb. 25, 18; m. 39; c. 3. PSYCHOLOGY. B.Ed, Southern Illinois, 39; M.S, Purdue, 40, Res. Found. fel, 41-42, Ph.D.(appl. psychol), 42. Asst. instr. psychol, Purdue, 40-41; dir. personnel res, Victor Plant, Radio Corp. Am, Ind, 42, dir. indust. music res. labs, N.J, 42-44; asst. prof. psychol, Tulane, 46-47; assoc. prof. psychol. & ed, Ill. Inst. Tech, 47-64, prof, 64-67; HEAD DEPT. PSYCHOL, MIDDLE TENN. STATE, 67- Lectr, Northwestern, 52-62. Dir, Indust. Opinion Inst, 44-48. U.S.N, 44-46, Lt. AAAS; fel. Psychol. Asn. Job satisfaction; empathy measurement; industrial tests. Address: 1620 E. Main St, Murfreesboro, Tenn. 37130.

KERRICK, DR. JEAN SMALLEY, b. Madera, Calif, Apr. 7, 28. MASS COMMUNICATION. A.B, California, 50; Ph.D.(mass commun), Illinois, 54. Assoc. journalism, California, Berkeley, 54-55, instr, 55-56, asst. prof, 56-61, asst. res. psychologist & Nat. Insts. Health res. grant, surv. res. center, Los Angeles, 61-64, lectr. pub. health, 64-66; SR. CONSULT. PSYCHOL, BOLT BERANEK & NEWMAN INC, VAN NUYS, 66- Psychol. Asn; Statist. Asn. Attitude change; communication; research methods; applied experimental and survey research. Publ: Co-auth, Effects of instructional set on the measurement of attitude change through communication, J. Soc. Psychol, 61; A method of obtaining scores from semantic differential data, J. Psychol, 67; Lecture vs. participation in the health training of Peace Corps volunteers, J. Ed. Psychol, 67. Address: 3436 Beethoven, Los Angeles, Calif. 90066.

KERRIGAN, PROF. HARRY D, b. Armenia, Dec. 23, 06. ACCOUNTING. B.S, California, 28, M.S, 29; M.B.A, Stanford, 31; Ph.D, Northwestern, 38. From lectr. to asst. prof, Northwestern, 31-47; assoc. prof. ACCT, Connecticut, 47-50, prof, 50-62; assoc. prof, CALIF. STATE COL. LOS ANGELES, 62-68, PROF, 68- Lectr, grad. sch. bus, Columbia, 48-55. U.S.A.A.F, 43-46, Maj. Am. Acct. Asn.(asst. ed, 37-40). Publ: Accounting method; Accounting systems; Fund accounting. Address: 1695 N. Grand Oaks Ave, Altadena, Calif. 91001.

KERSCHNER, DR. LEE R(ONALD), b. New York, N.Y, May 31, 31; m. 58; c. 3. POLITICAL SCIENCE. B.A, Rutgers, 53; Sch. Adv. Int. Studies fel. & M.A, Hopkins, 58; univ. fel. & Ph.D.(polit. sci), Georgetown, 64. Chief div. local govt. financial statist, Pa. Dept. Internal Affairs, 58-59; res. assoc. for. area studies, spec. opers. res. off, American Univ, 59; instr. POLIT. SCI, CALIF. STATE COL. FULLERTON, 61-63, asst. prof, 63-66, ASSOC. PROF, 66- Mem. tech. staff, Hughes Aircraft Co, Calif, 64-65; sr. assoc. for soc. & behav. sci, Hollander Assocs, Calif, 65-67; summer vis. prof, Georgetown, 65, 67; Am. Philos. Soc. res. grant, Zagreb, Yugoslavia, 67-68. U.S.A.F, 54-57, Res, 57-, Maj. Polit. Sci. Asn; Int. Studies Asn; Int. Asn. Cybernet. Marxist theory; cybernetics; relationships between empirical social science and Marxist theory; scope and theory of political science; comparative politics; international relations. Publ: Western translations on Soviet cybernetics, Studies in Soviet Thought, 6/64; Cybernetics: key to the future?, Probs. of Communism, 11-12/65; Cybernetics and Soviet philosophy, Int. Philos. Quart, 6/66. Address: Dept. of Political Science, California State College at Fullerton, 800 N. State College Blvd, Fullerton, Calif. 92631.

KERSCHNER, DR. L(EONA) M(ALINDA), b. Shamokin, Pa, Feb. 21, 04; m. 59; c. 1. SOCIOLOGY. B.S, Columbia, 39; M.A, N.Y. Univ, 44, Ph.D, 52. Instr. ed, col. & res. assoc. community experience prog, Hunter Col, 50-57; dir. community res, YWCA, Pa, 58-59; PRIVATE RESEARCHER, 59- Citation, Am. Woman's Asn. Sociol. Asn; Rural Sociol. Soc; Acad. Cert. Soc. Workers. Sociometric and community research. Publ: Sociometric study of the classroom roles of highly gifted children, 160 IQ and above, Sociol. Abstracts; Variability of audience responses in the measurement of marriage partner roles & Sociometry in an activity program on a university level, Sociometry. Address: Route 2, Sunbury, Pa. 17801.

KERSELL, DR. JOHN E(DGAR), b. Simcoe, Ont, Jan. 29, 30; m. 53; c. 3. POLITICAL SCIENCE. B.A, Queen's (Ont), 53; M.A, 54; Ph.D.(govt, polit), London Sch. Econ, 58. Instr. POLIT. SCI, Western Ontario, 54-56, lectr, 58-59; asst. prof, McMaster, 59-65, ASSOC. PROF, 65-67; WATERLOO, 67- Commonwealth of Australia sr. fel. & lectr, summer 65; Nuffield travel grant, 68. Can. Army, 55-65, Capt. Can. Polit. Sci. Asn; Inst. Pub. Admin. Can. Commonwealth of nations political systems; legislative politics. Publ: Parliamentary supervision of delegated legislation, Stevens & Sons, Ltd, London, 60; co-auth, Comparative analysis problems, British, U.S. and Canadian, Prentice Hall, Can, 68. Address: Dept. of Political Science, University of Waterloo, Waterloo, Ont, Can.

KERSH, DEAN BERT Y(ARBOUGH), b. Ft. Sam Houston, Tex, July 16, 27; m. 49; c. 4. EDUCATIONAL PSYCHOLOGY. B.A, California, 50, M.A, 53, Ph.D, 55. Asst. prof. ed, Oregon, 55-59; human factors scientist, Syst. Develop. Corp, 59-60; assoc. res. prof, center res. teaching, State Syst. Higher Ed, Ore, 60-61, assoc. dir, 61-67; DEAN FACULTY, ORE. COL. ED, 67- Ed. res. consult, California, 53-54. U.S.A, 46-48, 50-51. Psychol. Asn.

School learning; complex processes of problem solving and learning by discovery; programmed instruction. Publ: Adequacy of meaning as an explanation for the superiority of learning by independent discovery; Motivating effect of learning by directed discovery; co-auth, Patterns of thinking in solving problems. Address: Oregon College of Education, Monmouth, Ore. 97361.

KERSHAW, DR. JOSEPH A(LEXANDER), b. Philadelphia, Pa, Apr. 21, 13; m. 36; c. 2. ECONOMICS. A.B, Princeton, 35; M.A, N.Y. Univ, 38; Ph.D. (econ), Columbia, 47. Asst. prof. econ, Hofstra Col, 36-42; mem. staff, Off. Price Admin, 42-47; vis. prof. econ, Sao Paulo, 47-48; economist, Rand Corp, 48-62; PROF. ECON. & PROVOST, WILLIAMS COL, 62- Asst. dir. res. & planning, Off. Econ. Opportunity, D.C, 65-66. Mem. cmn. admin, Am. Coun. Ed, 65-68; Secy. Gardner's cmt. admin. training progs, 67-68. Money and banking; economics of Union of Soviet Socialist Republics. Publ: History of ration banking; Salary structure and teacher shortages; Recent trends in the Soviet economy. Address: Cluett Dr, Williamstown, Mass. 01267.

KERSTEN, DR. EARL W(ILLIAM), JR, Geog, see 11th ed, Phys. & Biol. Vols.

KERTESZ, PROF. STEPHEN DENIS, b. Putnok, Hungary, Apr. 8, 04; nat; m. 31; c. 2. POLITICAL SCIENCE. D.L, Budapest, 26; dipl, Paris, 28. Asst. to rep, Permanent Court Int. Justice, Hungarian Govt, 31-35, specialist, nationality probs. Danubian Europe, 38-42; first secy, Hungarian Legation, Bucharest, 42; mem. polit. div, Hungarian For. Ministry, 43-44, head peace conf. sect, 45-46; minister-counsellor Hungarian Legation, Paris, 46; Hungarian Minister, Italy, 47; assoc. prof, Yale, 48-50; POLIT. SCI, NOTRE DAME, 50-51, PROF, 51-, DIR. STUDY PROG. SOVIET UNION & EAST. EUROPE, 54-, summers, vis. prof, 48-50. Mem, Off. Hungarian Govt, Mixed Arbitral Tribunals, 31-35; Rockefeller fel, 35-37; secy. gen, Hungarian Del. Peace Conf, 46; reader, Univ. Budapest, 45-47; Guggenheim fel, Europe, 58-59. Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Int. Law Asn. International relations and law; diplomacy. Publ: Diplomacy in a whirlpool, 53 & co-ed, Diplomacy in a changing world, 58, Univ. Notre Dame; auth, The quest for peace through diplomacy, Prentice-Hall, 67. Address: Dept. of Political Science, University of Notre Dame, Notre Dame, Ind. 46556.

KERWIN, PROF. JEROME G(REGORY), b. Albany, N.Y, Feb. 25, 96. POLITICAL SCIENCE. A.B, Dartmouth Col, 19; A.M, Columbia, 20, Ph.D, 26, LL.D, St. Viator, 35; LL.D, Col. Holy Cross, 46; Litt.D, Notre Dame, 53. Instr, Dartmouth Col, 22-23; polit. sci, CHICAGO, 23-25, asst. prof, 25-29. assoc. prof, 29-43, dean students in soc. sci, 33-39, prof, 43-61, EMER. PROF. POLIT. SCI, 61- Vis. prof, Stanford, 61-; prof. polit. sci. & dir. honors div, Santa Clara, 62-66. Chmn. Walgreen Found. Study Am. Insts, 47-57. Polit. Sci. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci. Sixteenth century political theory; federal water legislation; school and city government. Publ: Catholic viewpoint on church and state; Government, politics and Catholics. Address: 911 Camino Dr, Santa Clara, Calif. 95050.

KESCHNER, DR. DOROTHEE ANNA, b. Solingen, Germany; nat. PSYCHOLOGY. B.A, Toronto, 46, M.A, 48, Ph.D.(psychol), 57. Psychologist, div. ment. health, Ont. Dept. Health, 47-51; asst. child develop, inst. child study, Univ. Toronto, 52-53, lectr. psychol, exten, 53-54; psychologist, Toronto Bd. Ed, 55-58; RES. ASSOC. CHILD PSYCHOL, BANK ST. COL. ED, 55-, instr. child develop, 60-61. Am. Psychol. Asn; Can. Psychol. Asn. Child development; personality theory; clinical psychology. Address: Apt. 4B, 115 W. 86th St, New York, N.Y. 10024.

KESLIN, PROF. RICHARD ORVILLE, b. Milwaukee, Wis, Aug. 9, 26; m. 49; c. 2. ANTHROPOLOGY. B.A, Wisconsin, 52, M.A, 57, Ph.D, 61; fel, Beloit Col, 59-60. Asst. anthrop, Wisconsin, 52-55; instr. anthrop. & dir. mus, Missouri, 55-59, field dir, 56-59; asst. prof. anthrop, Beloit Col, 60-61; asst. prof. anthrop. & curator Great Lakes Div, Mus. Anthrop, Michigan, 61-64; ASSOC. PROF. ANTHROP, TEX. TECH. COL, 64- Wenner-Gren Found. Anthrop. Res. grant, 59. U.S.M.C, 42, Res, 44-46. AAAS; fel. Anthrop. Asn; Soc. Am. Archaeol. Archeology and ethnology of North and Meso-America; old world prehistory; archaeological methodology. Publ: Archeological implications on the role of salt as an element of cultural diffusion, Mo. Archaeologist; Preliminary report of the Hahn and Horicon sites, Dodge County, Wisconsin, Wis. Archaeologist. Address: Dept. of Sociology & Anthropology, Texas Technological College, Lubbock, Tex. 79409.

KESNER, DR. RAYMOND PIERRE, b. Oran, Algeria, Dec. 19, 40; U.S. citizen; m. 65. PHYSIOLOGICAL PSYCHOLOGY. B.S, Wayne State, 62; M.A, Illinois, 64, Ph.D.(psychol), 65. Asst. psychol, Illinois, 62-63, res. asst. physiol, 63-65; res. fel. physiol. psychol, center brain res, Rochester, 65-67; ASST. PROF. PSYCHOL, UTAH, 67- AAAS; Psychol. Asn. Relationships between brain function and memory, learning and motivational processes. Publ: Subcortical mechanisms of audiogenic seizures, Exp. Neurol, 66; A tegmento-tubercular projection as an artifact of third nerve stimulation, Exp. Brain Res, 66; Function of the midbrain reticular formation in regulating level of activity and learning in rats, J. Comp. & Physiol. Psychol, 67. Address: Dept. of Psychology, University of Utah, Salt Lake City, Utah 84112.

KESO, PROF. EDWARD E(LMER), b. Freedom, Mo, Mar. 13, 00; m. 22; c. 3. SOCIAL SCIENCE. B.S, Cent. Col.(Mo), 25; M.A, George Peabody Col, 29, fel, 36, Ph.D.(soc. sci), 37; Oklahoma, 29-34. Supt, high sch, Mo, 25-28; instr. ed, Tenn. Polytech, 29; assoc. prof. geog. & hist, Cent. Okla. State Col, 29-37, prof, 37-40; assoc. prof. GEOG, Northeast. Mo. State Teachers Col, 40-42; asst. prof, Missouri, 42-44; assoc. prof, Oklahoma, 44-46; head dept, OKLA. STATE, 46-55, prof, 46-65, EMER. PROF, 65- Civilian with U.S.A.A.F. Asn. Am. Geog; fel. Nat. Coun. Geog. Teachers. Economic, industrial and political geography. Publ: The senatorial career of Robert Latham Owen, Garden City Press, 38; Conserving our resources, Times, 46; contrib, Encyclopedia Americana. Address: Dept. of Geography, Oklahoma State University, Stillwater, Okla. 74074.

KESSEL, PROF. JOHN HOWARD, b. Dayton, Ohio, Oct. 13, 28; m. 54; c. 2. POLITICAL SCIENCE. B.A, Ohio State, 50; Ph.D.(polit. sci), Columbia, 58. Instr. POLIT. SCI, Amherst & Mt. Holyoke Cols, 57-58; Amherst Col, 58-60, asst. prof, 60-61; Washington (Seattle), 61-65; ARTHUR E. BRAUN PROF, ALLEGHENY COL, 65- Eagleton-Citizenship Clearing House Nat. Convention fel, 60; Nat. Center Ed. in Polit. Nat. Cmt. fel, 63-64; Govt. Affairs Inst. Nat. Cmt. fel, 64. Mem. exec. coun, Inter-Univ. Consortium Polit. Res, 64-65, 67-68. U.S.N, 50-53, Lt.(jg). Polit. Sci. Asn. American political parties; public opinion. Publ: The Goldwater coalition; republican strategies in 1964, Bobbs, 68; Cognitive dimensions and political activity, Pub. Opinion Quart, 65; Public perceptions of the supreme court, Midwest J. Polit. Sci, 66. Address: Dept. of Political Science, Allegheny College, Meadville, Pa. 16335.

KESSEL, PROF. REUBEN, b. Chicago, Ill, Apr. 2, 23; m. 51; c. 1. ECONOMICS. M.B.A, Chicago, 48, Ph.D.(econ), 54. Instr. econ, Missouri, 48-49; economist, Rand Corp, Calif, 52-56; asst. prof, California, Los Angeles, 56-57; Chicago, 57-61; res. assoc, Nat. Bur. Econ. Res, 61-62; assoc. prof. BUS. ECON, CHICAGO, 62-64, PROF, 65- Res. grants, Merrill Found. Adv. Financial Knowledge; Cmn. Money & Credit; Nat. Sci. Found; Volker Found. U.S.A, 43-46, Sgt. Econ. Asn. Inflation; term structure of interest rates; government securities markets. Publ: Inflation-caused wealth redistribution: a test of a hypothesis, Am. Econ. Res, 3/58; Price discrimination in medicine, J. Law & Econ, 10/58; Cyclical behavior of the term structure of interest rates, Nat. Bur. Econ. Res. Occasional Paper 91, Columbia Univ, 65, summarized in The Bond Buyer, 11/65 & reprint, In: Analytical methods in banking, Irwin, 66. Address: University of Chicago Graduate School of Business, Chicago, Ill. 60637.

KESSELMAN, PROF. LOUIS C(OLERIDGE), b. Columbus, Ohio, Nov. 13, 19. POLITICAL SCIENCE. A.B, Ohio State, 40, A.M, 41, Ph.D, 47. Instr, Ohio State, 41-47; asst. prof. POLIT. SCI, LOUISVILLE, 47-50; assoc. prof, 51-52, PROF. & CHMN. DEPT, 52- Fulbright lectr, Oslo, 53-54; Helsinki, 60-61. Economist, arbitrator & pub. panel chmn, War Labor Bd, 43-45, arbitrator Fed. Mediation & Conciliation Serv, 45- Mem, enforcement cmn, Nat. Wage Stabilization Bd, 51-53; Ky. Civil Serv. Cmn, 55-58. Polit. Sci. Asn. Social Politics of the Fair Employment Practices Committee; labor and race relations. Address: 502 Brookview Rd, Louisville, Ky. 40207.

KESSELMAN, DR. MARK JONATHAN, b. New York, N.Y, Aug. 27, 38; m. 64. POLITICAL SCIENCE. B.A, Cornell, 59; M.A, Chicago, 61, Ph.D.(polit. sci), 65. ASST. PROF. GOVT, COLUMBIA, 64- John Simon Guggenheim fel, 68-69. Consult. preliminary screening cmt. West. Europe, For. Area Fel. Prog, 66-67. Polit. Sci. Asn. Comparative politics; political parties; political sociology; French and American politics. Publ: The ambiguous consensus: a study of local government in France, 67 & co-auth, The American political order, 70, Knopf; auth, French local politics, Am. Polit. Sci. Rev, 12/66. Address: Dept. of Government, Columbia University, New York, N.Y. 10027.

KESSEN, PROF. W(ILLIAM), b. Key West, Fla, Jan. 18, 25; m. 50; c. 6. PSYCHOLOGY. B.S, Florida, 48; Sc.M, Brown, 50; Ph.D, Yale, 52. U.S. Pub. Health Serv. fel, child study center, YALE, 52-54, asst. prof. psychol, 54-60, assoc. prof. PSYCHOL, CHILD STUDY CENTER, 60-65, PROF, 65-, RES. ASSOC. PEDIAT, SCH. MED, 65- Fel, Center Adv. Study Behav. Sci, 59-60. Mem. cmt. intellective processes res, Soc. Sci. Res. Coun, 59-64, auxiliary res. award, 59. A.U.S, 43-46. Fel. AAAS; fel. Psychol. Asn; Soc. Res. Child Develop; Psychonomic Soc. Behavior of human newborn; early learning; cognition. Publ: Co-auth, Language of psychology, 59 & auth, The child, 65, Wiley; co-auth, Anxiety, pain, and the inhibition of distress, Psychol. Rev. Address: Dept. of Psychology, Yale University, 333 Cedar St, New Haven, Conn. 06510.

KESSIN, DR. KENNETH, b. New York, N.Y, Jan. 8, 34; m. 59; c. 2. SOCIOLOGY. B.A, City Col. New York, 55; M.A, Brooklyn Col, 63; Ph.D.(sociol), Chicago, 67. Res. asst, N.Y. State Temporary Rent Housing Cmn, 57-58; ASST. PROF. SOCIOL, Ill. Inst. Tech, 59-68; RUTGERS, 68- Consult, Bur. Indian Affairs, U.S. Dept. Interior, 63. Sociol. Asn. Social stratification; community organization; disaster behavior. Publ: Co-auth, Public reaction to the unscheduled sounding of air raid sirens in a metropolis, Disaster Res. Group, Nat. Acad. Sci, 60. Address: Dept. of Sociology, Rutgers, The State University, New Brunswick, N.J. 08903.

KESSLER, DR. CLEMM CROMWELL, III, b. Hartford, Conn, Mar. 12, 41; m. 63. PSYCHOLOGY. A.B, Bucknell, 63; M.S, Western Reserve, 65; Ph.D. (indust. psychol), Case Western Reserve, 67. ASST. PROF. PSYCHOL, NEBRASKA, OMAHA, 67- Job attitudes; employee motivation; organizational psychology; selection and assessment. Publ: Co-auth, Effects of illumination on wall-leaving behavior and activity in three inbred mouse strains, J. Comp. & Physiol. Psychol, 66. Address: Dept. of Psychology, University of Nebraska at Omaha, Omaha, Nebr. 68101.

KESSLER, DR. MABEL G(ENEVA), Psychol, see 10th ed, Soc. & Behav. Vols.

KESTER, PROF. HENRY I(RA), b. Wayland, N.Y, June 22, 21; m. 44; c. 2. ECONOMICS. B.Ed, Wis. State, 44; Newton scholar, Northwestern, 48-49, Ph.D, 55. Lectr. FINANCE, Northwestern, 48-50; asst. prof, Washington (Seattle), 50-56; assoc. prof, GRAD. SCH. BUS. ADMIN, COLORADO, 56-58, PROF. & HEAD DIV, 58- Vis. asst. prof, grad. sch. bus, Stanford, 54. U.S.N.R, 44-46, Lt.(jg). Econ. Asn; Finance Asn; Financial Exec. Inst. Business finance; investments; consumer credit. Address: Division of Finance, Graduate School of Business Administration, University of Colorado, Boulder, Colo. 80302.

KESTON, PROF. MORTON J, b. Chicago, Ill, Aug. 10, 13; m. 40; c. 4. PSYCHOLOGY. B.S, Chicago, 33, M.A, 37, M.S, 41; Ph.D.(psychol), Minnesota, 49. Instr, col. ed, Minnesota, 42-47; asst. prof. PSYCHOL, New Mexico, 47-53, assoc. prof, 53-56; from assoc. prof. to PROF, SAN FRANCISCO STATE COL, 56- Psychology of music; educational and developmental psychology. Publ: Experimental evaluation of the efficacy of two methods of teaching music appreciation, J. Exp. Ed; co-auth, Possible factors influencing musical preference, J. Genetic Psychol. Address: Dept. of Psychology, San Francisco State College, San Francisco, Calif. 94132.

KESTON, DR. ROBERT, b. New York, N.Y, Mar. 4, 37; m. 60; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, N.Y. Univ, 58, Ph.D.(psychol), 63. Res. scientist, N.Y. State Psychiat. Inst, 60-62; mem. tech. staff, Mitre Corp, 62-63; sr. scientist, Lab. Electronics, Inc, 63-64; mem. sr. tech. staff, Data Dynamics Inc, 64-66; ADV. SYSTS. ANALYST, INT. BUS. MACH. CORP, 66- Psychol. Asn; Optical Soc. Am; Am. Inst. Navig. Development and marketing of automated information systems for state and local government and other public institutions including personnel, law enforcement, urban planning, public service and transportation applications. Publ: Analysis of display-control systems in aircraft guidance, J. Inst. Navig, summer 64; co-auth, Visual experiments related to night carrier landing, Human Factors J, 64 & Minimum attention display techniques, J. Inst. Navig, 65. Address: 11317 Old Club Rd, Rockville, Md. 20852.

KETCH, PROF. CLARENCE W, b. Arkansas City, Kans, Sept. 28, 21; m. 41; c. 3. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, Houston, 51; M.S, Texas A&M, 55; Ph.D.(sociol), La. State, 61. Assoc. prof. SOCIOL, SOUTHWEST MO. STATE COL, 58-63, PROF, 63- Consult, U.S. Off. Econ. Opportunity & U.S. Dept. Labor, 66-68. Acad. Polit. & Soc. Sci. Manpower development; disaster and social adjustment; religious attitudes and individual behavior. Publ: Co-auth, Religious and economic survey of Springfield, Missouri, Southwest Mo. State Col, 64 & Manpower demand survey at selected counties of Missouri, Ozarks Area Community Action Corp, 67. Address: Dept. of Sociology, Southwest Missouri State College, Springfield, Mo. 65804.

KETCHAM, PROF. EARLE H(OYT), Int. Law, see 10th ed, Soc. & Behav. Vols, deceased 64.

KETCHAM, PROF. RALPH L(OUIS), Am. Studies, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KETCHAM, PROF. WARREN A(NDREW), b. Manistee, Mich, June 28, 09. EDUCATIONAL PSYCHOLOGY. Hinsdale scholar & Ph.D.(ed. psychol), Michigan, 51. Psychologist, Ferndale Pub. Sch, Mich, 50-63; PROF. ED, UNIV. & COORDINATOR PSYCHOL. SERV, UNIV. SCH, MICHIGAN, 53- Psychol. Asn; Soc. Res. Child Develop. Child development; exceptional children. Publ: Experimental tests of principles of developmental anatomy and neuroanatomy as applied to the pedagogy of reading, Child Develop; How should we look at levels from child growth and development, Childhood Ed. Address: School of Education, University of Michigan, Ann Arbor, Mich. 48104.

KETCHEL, DR. RONNIE G(WEN), Psychol, see 10th ed, Soc. & Behav. Vols.

KETCHUM, PROF. MARSHALL D(ANA), b. Buffalo, N.Y, Dec. 16, 05; m. 31; c. 2. FINANCE, BUSINESS ADMINISTRATION. B.S, Syracuse, 28, M.S, 29; Ph.D.(bus), Chicago, 37. From asst. prof. to assoc. prof. econ, Utah State Col, 32-38; from asst. prof. to prof, Kentucky, 38-45; from vis. assoc. prof. to PROF. FINANCE, CHICAGO, 45- Lectr, exec. sch. credit & financial mgt, Wisconsin, 47-49; exec. develop. prog, Michigan, 53-64; exec. mgt. prog, Mich. State, 55. Finance Asn.(v.pres, 56, pres, 57); Econ. Asn. Institutional investment policy; financing of business enterprise; monetary theory. Publ: Investment principles and policy; The fixed investment trust; co-ed, Readings in financial institutions, Houghton, 65. Address: Graduate School of Business, University of Chicago, Chicago, Ill. 60637.

KETTERLING, DR. MARVIN E(ARL), b. Streeter, N.Dak, Mar. 6, 28; m. 64; c. 1. PSYCHOLOGY. B.A, Westmar Col, 50; M.A, Columbia, 54; dipl. psychol, Vienna, 55; Ed.D.(psychol), Colo. State Colo, 64. Counsr, sch. bus, City Col. New York, 53-54; dir. guid. Am. High Sch, Salzburg, Austria, 54-55; instr. psychol, Col. Wooster, 56-58; clin. trainee, Vet. Admin, Indianapolis, Ind, 58-59; asst. prof, Wis. State Col.(Whitewater), 59-60; instr, MILWAUKEE TECH. COL, 60-62, ASSOC. PSYCHOLOGIST, COUNSELING CENTER, 62- Devereux Found. fel. clin. child psychol, 65-66; lectr, Wisconsin, Milwaukee, 68. U.S.A, 50-52. Psychol. Asn; Personnel & Guid. Asn. Rehabilitation of women in the Milwaukee County jail; counseling with the disadvantaged adolescent; personality characteristics of nursing students; designing and evaluating experimental programs for underachieving and borderline ability college students. Publ: Ed, Group counseling with the disadvantaged adolescent, Milwaukee Voc. Press, Wis, 67. Address: 2129 E. Kenwood Blvd, Milwaukee, Wis. 53211.

KEUR, PROF. DOROTHY L(OUISE), b. New York, N.Y, Feb. 13, 04; m. 28. ANTHROPOLOGY. A.B, Hunter Col, 25, fel, 25-26; A.M, Columbia, 28, Ph.D.(anthrop), 41. Instr. anthrop, HUNTER COL, 26-43, asst. prof, 43-47, ADMIN. ANTHROP, 47-50, assoc. prof, 49-57, PROF, 57- Fel. Anthrop. Asn; Ethnol. Soc.(secy-treas, 48, pres, 56); Soc. Am. Archaeol; Soc. Phys. Anthrop; fel. N.Y. Acad. Sci. American archaeology in the southwest; social anthropology. Publ: Co-auth, Windward children; co-auth, The deeply rooted, Monogr. Am. Ethnol. Soc. Address: 2475 Palisade Ave, New York, N.Y. 10463.

KEW, DR. JOHN KENDALL, Psychol, see 10th ed, Soc. & Behav. Vols.

KEWLEY, DR. THOMAS J, b. Chicago, Ill, May 9, 34. FINANCE, ECONOMICS. B.S.C, Notre Dame, 55; M.B.A, DePaul, 59; Ph.D.(finance, econ), Mich. State, 65. Financial analyst, Inland Steel Co, 55-66; ASSOC. PROF. FINANCE, DePAUL, 66- Pres, Toley Fabricated Prod. Co, 66- U.S.A.R, 56, Capt. Finance Asn. Financial administration; investment and economic analysis. Publ: Co-auth, The odd-lot theory as revealed by purchase and sale statistics for individual stocks, Financial Analysts J, 9-10/67. Address: 7337 S. Shore Dr, Chicago, Ill. 60649.

KEY, DR. MARY RITCHIE, Ling, see 5th ed, Dir. Am. Scholars, Vol, III, For. Lang, Ling. & Philol.

KEY, PROF. V(ALDIMER) O(RLANDO), JR, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 63.

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KEYES, PRES. FENTON, b. New York, N.Y, Jan. 26, 15; m. 44; c. 2. SOCIOLOGY. A.B, Yale, 37, Page fels, 38-40, Ph.D.(sociol), 42. Instr. sociol, Colgate, 40-42; supvr. records intel, War Dept, Governors Island, N.Y, 42; analyst, Dept. Justice, Wash, D.C, 43; asst. prof. sociol. & asst. to pres, Skidmore Col, 46-47, bus. mgr, 47-53, v.pres, 53-56; dean univ. & grad. sch, Texas Woman's Univ, 56-60; PRES, COKER COL, 60- Consult, cmn. col, South. Asn. Col. & Schs, 56-; rep, Independent Col. Funds Am, Inc, 66- U.S.A, 43-46, Capt. Sociol. Asn; Anthrop. Asn. College administration; economy, geography and art of China; cultural minorities; marginal man concept. Publ: Co-auth, History U.S. Forces in China-Burma-India, 3 Vols, Govt. Printing Off, 53, 56, 58; auth, Urbanism and population distribution in China, Am. J. Sociol; Correlation of social phenomena with community size, Soc. Forces, 5/58. Address: Coker College, Hartsville, S.C. 29550.

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KEYFITZ, PROF. NATHAN, b. Montreal, Que, June 29, 13; m. 39; c. 2. SOCIOLOGY. B.Sc, McGill, 34; Ph.D.(sociol), Chicago, 52. Statistician, Dom. Bur. Statist, 36-50, sr. res. statistician, 50-59; PROF. SOCIOL, Toronto, 59-63; Chicago, 63-68; CALIFORNIA, BERKELEY, 68- Lectr, Carleton Col, 46-55; McGill, 47-50; Ottawa, 55; Buenos Aires, 61. Dir, Soc. Sci. Res. Coun. Fel. Statist. Asn; Pop. Asn; assoc. Soc. Actuaries; fel. Royal Soc. Can; Can. Polit. Sci. Asn.(v.pres); Int. Statist. Inst; Int. Union Sci. Study Pop. Demographic studies; sampling survey statistics. Publ: Introduction to the mathematics of population, Addison-Wesley, 68; Reconciliation of population models: matrix, integral equation and partial fraction, J. Royal Statist. Soc, 67; Changing vital rates and age distribution, Pop. Studies, 7/68. Address: Dept. of Demography, University of California, Berkeley, Calif. 94720.

KEYS, DR. LUCIEN B, Phys. Anthrop, see 11th ed, Phys. & Biol. Vols.

KEYSERLING, DR. LEON H, b. Charleston, S.C, Jan. 22, 08; m. 40. ECONOMICS, LAW. A.B, Columbia, 28; LL.B, Harvard, 31; hon. Dr.Bus.Sc, Bryant Col, 65. Legis. asst. to Senator Robert F. Wagner, 33-37; dep. adminstr. gen. counsel & acting adminstr, U.S. Housing Authority & Fed. Pub. Housing Authority, 37-42; gen. counsel, Nat. Housing Agency, 42-46; v.chmn, President's Coun. Econ. Adv, 46-50, chmn, 50-53; CONSULT. ECONOMIST & LAWYER, 53- Hon. mem. faculty, Indust. Col. Armed Forces, 65- Expert, Senate Banking & Currency Cmt, 35-37; adv, Senate Cmts, 37-44, 53-; pres, Conf. Econ. Prog, 54- Econ. Asn; Polit. Sci. Asn; Bar Asn; Acad. Polit. & Soc. Sci. Economic stability and growth; national policies designed to maintain full employment, production and purchasing power. Publ: Progress or poverty, 64, Agriculture and the public interest, 65 & Goals for teachers' salaries in our public schools, Conf. Econ. Progress. Address: 1001 Connecticut Ave. N.W, Washington, D.C. 20036.

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KHAN, HAKIM I, b. Aonla, India, Jan. 14, 26; U.S. citizen; m. 57; c. 4. PSYCHOLOGY, EDUCATION. B.A, Lucknow, 44, M.A, 45, fel, 45-47; M.A, Columbia, 49. Assoc. prof. psychol. & ed, Lucknow, 47-48; info. specialist, Voice Am, U.S. Info. Agency, 52-65; SPECIALIST COMP. ED. MID. EAST, N.AFRICA & S.ASIA, OFF. ED, US. DEPT. HEALTH, ED. & WELFARE, 66- Social psychology; attitude studies in educational planning; comparative cross cultural studies in education and psychology. Address: 6205 Lakeview Dr, Falls Church, Va. 22041.

KHAN, DR. ZILLUR R, b. Hoogly, India, Nov. 21, 38; m. 66. POLITICAL SCIENCE. B.A, Dacca, 57, M.A, 58, LL.B, 59; M.A, Claremont Grad. Sch. & Grad. Center, 64, Fulbright scholar, 64-65, Asian studies scholar, 65-66, Danforth Found. grant, 66-67, Ph.D.(govt), 67. Lectr. polit. sci, Dacca Col, 61-62; Rajshahi Col, 62-63; cantonment exec. officer & magistrate, Ministry Defense, Govt. Pakistan, 63-64; ASST. PROF. anthrop, Sonoma State Col, spring, 67; POLIT. SCI, WIS. STATE, OSHKOSH, 67- Nat. Sci. Found. summer grant, 67. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. Sci. Public administration; comparative government; civil service system; bureaucracy in underdeveloped countries; power relationships and social control systems in primitive and modern societies; comparative police administration. Publ: A sociological study of the St. Martin Island in the Bay of Bengal, Pakistan J. Adv. Sci, 6/63; A politico-anthropological study of the fisherman and golpatta cutters of the Sunderbans, Sunderbans Suppl, Morning News, Dacca, 2/64; Caste and Muslim peasantries of India and Pakistan, Can. J. Anthrop, 7/68. Address: Dept. of Political Science, Wisconsin State University, Oshkosh, Wis. 54901.

KHANNA, PROF. JASWANT LAL, b. Lanore, Pakistan, July 5, 25; m. 51; c. 2. PSYCHOLOGY. B.Sc, Panjab Univ, India, 43, M.A, 48; Fulbright grant, 53; fel, Colorado, 55-56, Ph.D, 56. Sr. lectr. psychol, Panjab Univ, India, 56-57; sr. res. clin. psychologist, Larned State Hosp, Kans, 57-61; asst. prof. psychol, TENNESSEE, 61-65, ASSOC. PROF. PSYCHIAT, 65-, DIR. PSYCHOL. RES, CHILD DEVELOP. PROG, 62-, consult, sch. dent, 65-66, dir. inst. brain damage & ment. retardation, 66. Vis. prof, Le Moyne Col.(Tenn), 62-; adj. prof, Memphis State, 67- Consult, Jackson Ment. Health Center, 62- Mem. res. task force, State Tenn, 65- Am. Psychol. Asn; assoc. Brit. Psychol. Soc. Personality theory; brain damage; child development; psychotherapy; group dynamics; philosophy of science; mental health. Publ: Brain damage and intelligence, C.C. Thomas, fall 67; Theories of group therapy; Personality structure of medical students, Nat. Asn. Ment. Health J, fall 66. Address: Dept. of Psychiatry, University of Tennessee, 42 N. Dunlap St, Memphis, Tenn. 38103.

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KHOURI, PROF. FRED J(OHN), b. Cranford, N.J, Aug. 15, 16. POLITICAL SCIENCE. B.S, Columbia, 38, M.A, 39, Ph.D.(polit. sci), 53. Instr. POLIT. SCI, Tennessee, 46-47; Connecticut, 47-50; assoc. prof, VILLANOVA, 51-64, PROF, 64- Assoc. prof, American Univ. Beirut, 61-64. U.S.A.A.F, 41-45. Polit. Sci. Asn; Soc. Int. Law; Acad. Polit. & Soc. Sci; Int. Studies Asn; Mid. East. Inst; Mid. East. Studies Asn. Middle Eastern affairs, especially Arab-Israeli problems and relations; problems of the Middle East. Publ: The Jordan River Controversy, Rev. Polit, 1/65; The policy of retaliation in Arab-Israeli relations, Mid. East J, autumn 66; Arab-Israeli dilemma, Syracuse Univ, spring, 68. Address: Dept. of Political Science, Villanova University, Villanova, Pa. 19085.

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KIDD, DR. EDWIN ALEXANDER, Aeronaut. Eng, Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

KIDD, PROF. JERRY STUART, b. Decatur, Ill, Oct. 29, 28; m. 50; c. 5. SOCIAL PSYCHOLOGY. B.S, Ill. Wesleyan, 50; M.A, Northwestern, 54, Ph.D. (psychol), 56. Training specialist appl. psychol, syst. develop. div, Rand Corp, 55-56; res. assoc, lab. aviation psychol, Ohio State, 56-61; consult, 61-62, 64-66; prin. staff scientist, systs. dept, A.A.I. Corp, 62-64; prog. dir. info. sci, Nat. Sci. Found, 66-67; consult. appl. psychol, Am. Insts. Res, 67; PROF. INFO. SCI, MARYLAND, 67- Md. State Dept. Ed, library exten. div. res. grant, 67-; Consult, Bendix Systs. Div, N.Am. Aviation; Charles Pfizer

& Sons, Inc; Inst. Defense Anal; U.S. Pub. Health Serv; Soc. Security Admin; Am. Inst. Res. Psychol. Asn; Human Factors Soc; Soc. Info. Sci; Library Asn. Human performance in complex systems; human communication; simulation methods; computer applications to communication systems; research organization and administration. Address: 303 Cedarcroft Rd, Baltimore, Md. 21212.

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KIDDER, DR. A(LFRED) V(INCENT), Archaeol, see 10th ed, Soc. & Behav. Vols, deceased 63.

KIDDER, DR. FREDERICK ELWYN, b. White Bear Lake, Minn, Sept. 22, 19; m. 57; c. 2. POLITICAL SCIENCE. A.B, California, Berkeley, 40, B.L.S, 50, M.A, 52; Ph.D.(polit. sci), Florida, 65. Instr. SOC. SCI, PUERTO RICO, 62-63, lectr, 63-65, asst. prof, 65-67, ASSOC. PROF, 67- Latin Am. Studies Asn; Polit. Sci. Asn; Library Asn; Statist. Asn; Soc. Polit. & Legal Philos; Asn. Teachers Spanish & Portuguese. Caribbean politics; Latin American bibliography; state and local government; political philosophy and sociology. Publ: Latin America and UNESCO: the first five years, Univ. Florida, 60; Theses on Pan American topics, Pan Am. Union, 62; The political concepts of Luis Muñoz Rivera of Puerto Rico, Univ. Microfilms 66. Address: P.O. Box 3294 Marina Station, Mayagüez, P.R. 00708.

KIDDER, NATHANIEL R(EMINGTON), b. Boston, Mass, Apr. 4, 21; m. 53; c. 4. MARKETING. B.A, Harvard, 42, M.A, 50; Northeastern, 42-43. Secy, Harvard Peabody Mus. Exped. to Yap Island, 47, 48; asst. prof. sociol, Maxwell Grad. Sch, Syracuse, 49, 50; consult, oper. res. off, Hopkins, 51-53; div. mgr, Jones & Lamson Mach. Co, 53-55; pres, Kidder & Co, 55-60; mgr. mkt. serv, Jack & Heintz Div, Siegler Corp, 60-64; v.pres. & chmn. policy cmt, All States Freight, Inc, 64-65; V.PRES, HOCHSCHWENDER & ASSOCS, INC, 65- Consult. ed, J. Mkt, 55-67. Mem, Nat. Coun. Phys. Distribution Mgt. Cert. merit, Dictionary Int. Biog, 67. Sig.C, U.S.A, 42-44. Mkt. Asn; Inst. Elec. & Electronics Eng; Transportation Res. Forum. Industrial marketing; capital budgeting; human biology; business logistics; inventory control; production planning and control. Publ: People of Yap and their depopulation; Some methods for analyzing the buy versus rent situation; Business logistics, Monthly column in Warehouse Distributor News, 67- Address: Hochschwender & Associates, Inc, 2108 Braewick Circle, Akron, Ohio 44313.

KIDNEIGH, PROF. JOHN C(HRISTOPHER), b. Nyssa, Ore, Apr. 28, 07; m. 28; c. 2. SOCIAL WORK. B.A, Utah, 39, M.A, 41; Denver, 42-43. Supvr. pub. welfare, State Dept. Pub. Welfare, Utah, 40-41; Colo, 41-43; consult, soc. security, U.S. Soc. Security Admin, 43-46; PROF. SOC. WORK & DIR. SCH, MINNESOTA, 46- Consult, State Civil Serv. Cmn, Minn, 43-46; State Dept. Pub. Welfare, La, 48; Vet. Admin, 52-56; Unitarian Serv. Cmt, 54-56; Nat. Inst. Ment. Health, 55-59. Pres, Am. Asn. Schs. Soc. Work, 50-51; chmn, U.S. Adv. Coun. Child Welfare Servs, 59-60, 63-67; pres, Nat. Asn. Soc. Workers, 59-61; mem. cmt, res. utilization br, Nat. Inst. Ment. Health, 62-67; adv. cmt. deans & dirs, Coun. Soc. Work Ed, 65-68. Social work administration and community organization; creation of predictive instruments in case selection and social treatment; manpower utilization; study of superior graduates of school of social work. Publ: Education for social work administration; The history of American social work, In: Encyclopedia of social work, 65; Restructuring practice for better manpower use, Soc. Work, 4/68. Address: School of Social Work, University of Minnesota, 909 Social Science Bldg Minneapolis, Minn. 55455.

KIDNER, DR. FRANK L(eROY), b. Detroit, Mich, Jan. 7, 10; m. 52; c. 3. ECONOMICS. A.B, California, 36; univ. fel, Columbia, 38-39, Soc. Sci. Res. Coun. fel, 39-40, Ph.D, 44. Lectr. ECON, CALIFORNIA, BERKELEY, 39-44, asst. prof, 44-47, assoc. prof, 47-49, PROF, 49-, V.PRES. ED. RELS, 66-, dir. bur. bus. & econ. res, 41-55, 56-59, v.chmn. dept. ed. rels, 47-50, dean, 60-62, univ. dean, 62-66. Vis. lectr, Leiden, 50-51. Pres, Assoc. Univ. Bus. & Econ. Res, 49. Econ. Asn. Comparative regional economic stability; consequences of the war for California economic activity and income; costs of government in California. Address: Dept. of Economics, University of California, Berkeley, Calif. 94720.

KIDORF, DR. IRWIN W(OLF), b. Philadelphia, Pa, July 15, 29; m. 60. PSYCHOLOGY. A.B, Temple, 50; M.A, New Mexico Highlands, 54; Vet. Admin. fel, Kentucky, 56-58, Ph.D.(psychol), 59. Asst. psychol, New Mexico Highlands, 53-54; psychologist, Fayette County Child Guid. Serv, Lexington, Ky, 55-56; Vet. Admin. Hosp, 58-62; CHIEF PSYCHOLOGIST, CUMBERLAND COUNTY GUID. CLIN, MILLVILLE, 63- Consult, Cumberland-Salem Unit, N.J. Asn. Retarded Children, 64- U.S.A, 51-53. Psychol. Asn; Group Psychother. Asn; Soc. Proj. Tech. Personality theory; chemotherapy; psychotherapy; psychodiagnostic techniques; religion and mental health; community mental health. Publ: Use of tape recording during therapy session, Int. J. Group Psychother, 63; Jewish tradition and the Freudian theory of mourning, 63 & The Shiva, a form of group psychotherapy, 66, J. Relig. & Health. Address: 448 N. Main Rd, Vineland, N.J. 08360.

KIEFER, CHARLES F(REDERICK), b. Hamilton, N.Y, July 1, 11; m. 41; c. 1. GOVERNMENT. A.B, George Washington, 40; Rockefeller fel, Harvard, 40-41, Littauer fel, 41-42, M.P.A, 41. Admin. asst, bur. agr. econ, agr. mkt. serv, U.S. Dept. Agr, 38-42, mgt. planning officer, prod. & mkt. admin, 46-49, budget officer, commodity credit corp, 48-50, asst. dir. commodity off, N.Y, 50-53, dir, Mass, 53-55, staff asst, off. admin, commodity stabilization serv, 55-61, exec. dir. mgt. opers. staff, 61-63, dir. off. mgt. serv, 63-65, off. mgt. improv, 65-66; EXEC. DIR, CIVIL AERONAUT. BD, 66- Consult, Ford Found, 63-68. U.S.A, 42-44; U.S.A.A.F, 43-46, Capt. Polit. Sci. Asn; Soc. Pub. Admin. Political economy; agricultural policy; air transportation. Address: 5302 18th St. N, Arlington, Va. 22205.

KIEFER, DR. ROBERTA B, b. Drumheller, Alta, July 23, 14; nat; m. 54. CLINICAL PSYCHOLOGY. Ed.B, Alberta, 47, Ed.M, 50; Fulbright exchange fel, Bowman Gray Sch. Med, Wake Forest Col, 53-54; D.Ed, Virginia, 66. Clin. psychologist, Alta. Dept. Health & Welfare, 50-53; chief clin. psychologist, Norfolk Ment. Hyg. Center, Va. Dept. Ment. Hyg. & Hosps, 55-59; sch. psychologist, Hampton City Schs, 60-66; staff psychologist, D.C. Pub. Health-Legal Psychiat. Div, 66-67; ASST. PROF. PEDIAT, SCH. MED, VIRGINIA, 67- Lectr, Greensboro Col, Bennett Col, N.C. & Agr. Tech. Col, N.C, 54-55; dept. exten, Virginia, 56-59; Col. William & Mary Exten, 59. Private practice clin. & ed. psychol. Psychol. Asn; Int. Coun. Psychol. School psychology; psychodiagnostic testing; counseling and supervised therapy; teaching; intellectual efficiency; pediatrics. Publ: The improvement of intellectual efficiency: a review of contemporary research with implications for educational practice, Univ. Microfilms, 67; Common stories as told by normal adult females to the TAT pictures; co-auth, Q-sort technique as a means of determining the relation of family structure to self-concept, Marriage & Family Living. Address: 1606 Greenleaf Lane, Charlottesville, Va. 22903.

KIEFFER, PROF. JAROLD A, b. Minneapolis, Minn, May 5, 23; m. 49; c. 3. POLITICAL SCIENCE. B.A, Minnesota, 47, Ph.D.(govt), 50. Asst. polit. sci, Minnesota, 49, soc. sci. prog, 50-51; exec. secy. defense mobilization manpower cmts. & staff asst. to exec. secy, Off. Defense Mobilization, 51-52, staff secy, 52, asst. to exec. officer & exec. secy. borrowing authority rev. bd, 53, spec. asst. to dir, 55-56, acting dep. asst. dir, nat. security affairs, 56-57, consult, 58; asst. to Secy. Dept. Health, Ed. & Welfare, 58-61; secy. bd. trustees, Nat. Culture Center, 59-63, exec. dir, 61-63; asst. to pres. & assoc. prof. polit. sci, OREGON, 63-67, PROF. PUB. AFFAIRS. & ADMIN. & CHMN. PUB. AFFAIRS & ADMIN. PROGS, SCH. COMMUNITY SERV. & PUB. AFFAIRS, 67-, CHMN. INTERDISCIPLINARY MASTER'S DEGREE PROG. PUB. AFFAIRS, GRAD. SCH, 65- Lectr, American Univ, 59-61, prof. lectr, 61. Asst, world affairs prog, Minneapolis Star, 49-50; exec. asst. to dir. orgn. & personnel & exec. secy. personnel adv. cmt, Atomic Energy Cmn, 52-53; asst. to Dr. Arthur S. Flemming, 53-58; asst. to Meyer Kestnbaum, White House, 55-56, adv, 56-58; adv, President's Adv. Cmt. Career Exec. Prog, 57; asst. to Nelson Rockefeller, 57-58; asst. to chmn, President's Adv. Cmt. Govt. Orgn, 59-61; consult, Ore. Arts. Cmn, 67- V.chmn. Gov. Planning Coun. Arts & Humanities, State Ore, 65-67. U.S.A, 42-46. Polit. Sci. Asn; Soc. Pub. Admin; Soc. Personnel Admin. American government; public administration history. Publ: Co-auth, Guide to the study of world affairs. Address: 554 Pinto Way, Eugene, Ore. 97401.

KIEFFER, DR. J(OHN) E(LMER), b. Buffalo, N.Y, Mar. 13, 10; m. 34; c. 4. POLITICAL GEOGRAPHY. M.S, Hopkins, 35; D.E.S, Sorbonne, 45; Dr. univ, Paris, 45. Asst. instr, Ohio State, 36-37; lectr, Temple, 38-41; assoc. prof, Tulane, 47-50; mem. staff, intel. liaison officer, opers. res. off, Hopkins, 50-51; int. br, policy div, dep. chief staff for opers, hq, U.S. Air Force, 51-53; mem. faculty, Nat. War Col, 53-56; pres, Universal Res. & Consults, 56-59; Model Eng. Corp, 60-63; HEADMASTER, HARKER PREP. SCH, 63- Assoc. prof, Alabama, 47; lectr. & res. fel, Georgetown, 50; guest lectr, Cuban Gen. Staff, 54; Venezuelan Armed Forces, 55. Consult, House Cmt. Communist Aggression, 54; Govt. of Venezuela, 56-58; pres. adv, Repub. of Cuba, 56-59. Mem. adv. cmt, World Acad. Schs. for For. Study, 66-; del, Inter-Am. Fedn. for Defense of Continent. Officer, d'Acad. Francaise, 48; Order of Miranda, Venezuela. U.S.A, 42-47, U.S.A.A.F, 51-56, Col; Legion of Honor; Bronze Star Medal with Oak Leaf Cluster; Croix de Guerre, gold palm & star; L'insigne des Zouraves; Distinguished Serv. Medal, Cuba. Fel. Royal Geog. Soc. Latin America; Far East; secondary school education. Publ: Studies in economic geography; Realities of world power; Strategy for survival. Address: 4848 Chevy Chase Blvd, Chevy Chase, Md. 20015.

KIEHL, PROF. ELMER R(UDOLPH), b. Malta Bend, Mo, July 2, 16; m. 42; c. 4. ECONOMICS. B.S, Missouri, 42, A.M, 50; Iowa State Col, 48; Ph.D, Harvard, 58. Exten. mkt. specialist, UNIV. MISSOURI, 47-49, instr. AGR. ECON, 49-51, asst. prof, 51-53, assoc. prof, 53-55, PROF, 55-, DEAN COL. AGR, 60-, chmn. dept, 57-60. Consult, U.S. Dept. Agr. Mem, Nat. Agr. Adv. Cmn, 63-65; Nat. Cmn. Food Mkt, 64-66. U.S.A, 42-46, Maj. Econ. Asn; Economet. Soc; Agr. Econ. Asn. Marketing; prices; resource use. Publ: Effects of flood control reservoirs on agricultural production, Univ. Mo. Res. Bull; Teaming up town and county, Univ. Mo. Exp. Sta. Bull. Address: 603 Edgewood Ave, Columbia, Mo. 65201.

KIEHN, OTTO G(ERHARD), JR, Econ, Statist, see 10th ed, Soc. & Behav. Vols.

KIELL, DR. NORMAN, b. Newark, N.J, May 11, 16; m. 48; c. 2. PSYCHOLOGY. B.A, Michigan, 39; M.A, Columbia, 47, Ed.D.(counseling), 49. COUNSR. STUDENTS, BROOKLYN COL, 50- U.S.A.A.F, 43-46. Psychol. Asn. Relationship of psychology to literature, art and history. Publ: The adolescent through fiction: a psychological approach; The universal experience of adolescence, Int. Univs, 64; Psychological studies of famous Americans: the Civil War period, Twayne, 64. Address: Brooklyn College, Bedford Ave, Brooklyn, N.Y. 11210.

KIELY, PROF. VERNON R(OGER), Indust. Mgt, see 10th ed, Soc. & Behav. Vols.

KIENTZLE, PROF. MARY J(OSEPHINE), b. Pittsfield, Ill, Nov. 30, 16. PSYCHOLOGY. A.B, Illinois, 36, A.M, 37, Ph.D.(psychol), 45. Personnel res. dept, Procter & Gamble Co, Ohio, 43-47; asst. prof. PSYCHOL, WASHING-

TON STATE, 47-52, ASSOC. PROF, 52- AAAS; Psychol. Asn; Psychomet. Soc; Statist. Asn; Inst. Math. Statist. Learning; individual differences; quantitative psychology. Address: Dept. of Psychology, Washington State University, Pullman, Wash. 99163.

KIENZLE, DR. HARRY J, b. Brooklyn, N.Y, Sept. 7, 32; m. 55; c. 2. SOCIOLOGY. B.A, Omaha, 60; M.A, Connecticut, 61, Ph.D.(sociol), 66. ASST. PROF. SOCIOL, MIAMI (OHIO), 64- U.S.A.F, 50-54, S/Sgt. Sociol. Asn; Soc. Sci. Study Relig. History of sociology; sociology of religion; sociological theory. Address: 206 Oakhill Dr, Oxford, Ohio 45056.

KIESLER, DR. CHARLES ADOLPHUS, b. St. Louis, Mo, Aug. 14, 34; m. 62; c. 2. PSYCHOLOGY. B.A, Mich. State, 58, M.A, 60; Nat. Inst. Ment. Health fel, Stanford, 60-63, Ph.D.(psychol), 63. Asst. prof. soc. psychol, Ohio State, 63-64; YALE, 64-66, ASSOC. PROF. SOC. PSYCHOL, 66-, CHMN. CULTURE & BEHAV. MAJOR & CHMN. GRAD. AREA PERSONALITY & SOC. PSYCHOL, 66- Nat. Sci. Found. grant & dir. five grants for undergrad. res, 65-68. U.S.A.F, 52-56. AAAS; Psychol. Asn; Soc. Exp. Social Psychol. Attitude change and interpersonal influence; effect of the group on the individual; theories of attitude change. Publ: Co-auth, Attitude change: a critical analysis of theoretical approaches, Wiley, (in press) & A test of a model for commitment, J. Personality & Soc. Psychol, 66; auth, Conformity and commitment, Trans-Action, 67. Address: Dept. of Psychology, Yale University, 1303A Yale Station, New Haven, Conn. 06520.

KIESLER, DR. DONALD J(OSEPH), b. Louisville, Ky, Dec. 22, 33; m. 57; c. 1. CLINICAL PSYCHOLOGY. A.B, Bellarmine Col.(Ky), 58; Ph.D.(clin. psychol), Illinois, Urbana, 63. U.S. Pub. Health Serv. res. fel, Wis. Psychiat. Inst, 63, res. assoc, 63-64; asst. prof. psychol. & sr. counsr, Iowa, 64-67; ASSOC. PROF. PSYCHOL, EMORY, 67- Res. grants, Nat. Inst. Ment. Health, 63-64, U.S. Off. Ed, 67-69. Psychol. Asn. Psychotherapy theory, research and training. Publ: Co-auth, Therapeutic relationship and its impact, Univ. Wisconsin, 67; auth, Some myths of psychotherapy research and the search for a paradigm, Psychol. Bull, 66; A grid model for theory and research in the psychotherapies, In: The relationship of theory and practice in psychotherapy, Aldine, 68. Address: Dept. of Psychology, Emory University, Atlanta, Ga. 30322.

KIESLER, PROF. ROSE S(EGAL), b. New York, N.Y, May 11, 12; m. 48; c. 3. GEOGRAPHY. B.A, Hunter Col, 32; M.A, Columbia, 33. Tutor & instr. geog, LEHMAN COL, CITY UNIV. NEW YORK, 33-55, ASST. PROF. GEOL. & GEOG. & CHMN. DEPT, 55- Consult, U.S. Dept. Army, 43-44. Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Urban geography; geography of New York State; political geography. Address: 46 Hutton Ave, Nanuet, N.Y. 10954.

KIESLER, DR. SARA B(ETH), b. Washington, D.C, Sept. 20, 40; m. 62; PSYCHOLOGY. B.S, Simmons Col, 61; Woodrow Wilson fel, Stanford, 61-62, M.A, 63; U.S. Pub. Health Serv. fel, Ohio State, 62-65, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, Yale, 65-66; CONN. COL, 66- Res. grants, Nat. Inst. Ment. Health, 66-67, Nat. Sci. Found, 67- Experimental social psychology; experimental research in attitude change; interpersonal behavior and perception. Publ: Co-auth, Role of forewarning in persuasive communications, J. Abnorm. & Soc. Psychol, 64; auth, Effect of perceived role requirements on reactions to favor-doing, J. Exp. Soc. Psychol, 4/66; Stress, affiliation and performance, J. Exp. Res. In Personality, 12/66. Address: Dept. of Psychology, Connecticut College, New London, Conn. 06320.

KIESLING, DR. HERBERT J, b. St. Louis, Mo, Oct. 6, 34; m. 66; c. 1. ECONOMICS. A.B, Washington (St. Louis), 56, M.A, 61; Ph.D.(econ), Harvard, 65. Lectr. ECON, INDIANA, 64-65, ASST. PROF, 65- Summer economist, off. asst. secy. prog. coord, Dept. Health Ed. & Welfare, 66. Consult, Ind. Cmn. Tax & Finance Policy, 66, 68. U.S.A, 56-58, Capt. Econ. Asn. Public finance; public expenditure theory; economics of education; problems in state taxation. Publ: Measuring a local government service: a study of school districts in New York State, Rev. Econ. & Statist, 11/67; An analysis of alternative decision rules, Pub. Choice, 2/68. Address: Dept. of Economics, Indiana University, Bloomington, Ind. 47401.

KIESOW, PROF. MILTON AUGUST, b. Horicon, Wis, July 20, 20; m. 45; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Wisconsin, 42; M.A, Nebraska, 47, Ph.D, 52. Instr. & counsr. high sch, Nebr, 46-50; res. asst, study coun, Nebr. Coop. Sch, 50-51; chmn. dept. ed. & psychol, Carthage Col, 52-57; asst. prof. ED, ARIZONA STATE, 57-63, ASSOC. PROF, 63- Summers, assoc. prof, Nebr. State Teachers Col, 55- & 56, Iowa State Col, 57. U.S.N.R, 42-45. Psychol. Asn. Educational measurements; regularity and accuracy of guidance technics in predicting future development; determining the effect of the secondary school in the lives of its graduates; role of information in counselor education. Publ: Autobiography as a guidance technique; Growth and development of guidance in modern education; Employment service school program, Sch. Counsr, 10/62. Address: 2025 Sierra Vista, Tempe, Ariz. 85281.

KIESSLING, DR. O(SCAR) E(DWARD), Mineral, see 11th ed, Phys. & Biol. Vols.

KIETZMAN, DALE W(ALTER), b. Gary, Ind, July 18, 24; m. 47; c. 4. ANTHROPOLOGY. A.B, Wheaton Col.(Ill), 46; Oklahoma, summer 46, 51; M.A, Northwestern, 52; Nat. Defense Ed. Act fel, Stanford, 61-62. Field translator, WYCLIFFE BIBLE TRANSLATORS & SUMMER INST. LING, Peru, 46-51, adminstr, 52-56, field dir, Brazil, 56-66, EXTEN. DIR, 66- Latin American studies; South American Indian cultural and linguistic research and the political administration, social integration and educational process of such groups. Publ: Co-auth, Brazilian Indians in the 20th century, Inst. Cross-Cultural Res, 67. Address: Box 1960, Santa Ana, Calif. 92702.

KIGER, PROF. JOSEPH C(HARLES), Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KIGHT, PROF. STANFORD STEELE, b. Nevada, Mo, May 7, 14; m. 55; c. 1. PSYCHOLOGY. B.S, Mo. State Col, 36; M.S, Southern California, 46, Ed.D, 47. Dist. supt, pub. schs, Mo, 37-42; asst. prof. group develop, Temple, 47-50, dir. & asst. prof. group dynamics, 50-55; PROF. MGT. & DIR. MGT. DEVELOP. LAB, DREXEL INST. TECH, 60- Summer lectr, Southern California, 47; assoc. mem. staff, Nat. Training Lab, 50; indust. consult, 67- U.S.A.A.F, 42-45. Psychol. Asn. Social psychology; group dynamics. Publ: Some consequences of situational analysis for learning; Role of leadership in the Delaware extension service; Effects of different feedback valences on learning. Address: Scott & Concord Rd, Concordville, Pa. 19113.

KIHL, DR. YOUNG W, b. Seoul, Korea, Oct. 13, 32; m. 64. POLITICAL SCIENCE. B.A, Grinnell Col, 59; M.A, N.Y. Univ, 60, Ph.D.(polit. sci), 63. Instr. POLIT. SCI, JUNIATA COL, 62-63, asst. prof, 63-66, ASSOC. PROF. & CHMN. DEPT, 67- Soc. Sci. Res. Coun. res. grants, 66; participant, Nat. Sci. Found. Summer Inst. Math. & Polit. Sci, Va. Polytech, 68. Korean Marine Corps, 50-55, Capt. Polit. Sci. Asn. Political process of the International Civil Aviation Organization; area study of the developing nations, especially Korea. Address: Dept. of Political Science, Juniata College, Huntingdon, Pa. 16653.

KIHLBERG, DR. JAAKKO K(USTAA), b. Padasjoki, Finland, July 24, 24; U.S. citizen; m. 47; c. 5. BIOSTATISTICS, EPIDEMIOLOGY. M.A, Helsinki, 50; WHO fel, London, 53; U.S. Pub. Health Serv. fel, Minnesota, 58-61, M.P.H. & Ph.D.(epidemiol. & biostatist), 62. Sect. head statist, Nat. Pension Ins. Inst, Finland, 50-52; biostatist, Inst. Occup. Health, 52-58; instr. epidemiol. & biostatist, Minnesota, 61-62, asst. prof, 62-63; SECT. HEAD STATIST, CORNELL AERONAUT. LAB, INC, 63- Part-time clin. instr, sch. med, State Univ. N.Y. Buffalo, 64- Finnish Army, 41-45, 2nd Lt. Am. Statist. Asn; Finnish Statist. Asn.(pres, 58). Applications of statistics in biological, medical, epidemiological and related fields; statistical approach in traffic accident research. Publ: Co-auth, Quantitative methods in histology and microscopic histochemistry, Little & S. Karger, Inc, 55; auth, Motor vehicle accident rates as related to design elements of rural highways, Cornell Aeronaut. Lab, 66; On the properties of the tooth eruption curve, Suom. Hammaslaak. Toim, 54. Address: 1830 Kensington Ave, Buffalo, N.Y. 14215.

KIKER, DR. VERNON L, JR, b. Wewoka, Okla, Dec. 8, 26. PSYCHOLOGY. B.S, Okla. State, 48, M.S, 55; Ph.D.(psychol), Ohio State, 61. Teaching asst. gen. psychol, Ohio State, 55-56, asst. instr. elem. psychol, 57-58, teaching asst. exp. psychol, 58-60, fel. psychol, 60-61; res. prep, man & mach. systs, Lockheed Missiles & Space Corp, 61-62; ASSOC. PROF. PSYCHOL, CALIF. STATE COL. LOS ANGELES, 62- U.S.A, 48-50 & 51-52, Capt. AAAS; Psychol. Asn. Time perception; complex motor skills and timing; individual differences in learning style. Address: Dept. of Psychology, California State College at Los Angeles, Los Angeles, Calif. 90032.

KILAND, DR. JAMES RAY, Psychol, see 10th ed, Soc. & Behav. Vols.

KILBERT, LEON, b. Plock, Poland, Mar. 13, 18; nat; m. 45; c. 3. ECONOMICS, STATISTICS. B.B.A, City Col. New York, 54; M.B.A, N.Y. Univ, 56. Economist & statistician, LIONEL D. EDIE & CO, INC, 56-58, sr. economist, 58-60, asst. v.pres. & asst. dir. ECON. DIV, 60-63, v.pres. & assoc. dir, 63-67, DIR, 67-, assoc. dir, 63-67. Statist. Asn. Development of research tools and approaches. Publ: Co-auth, Sample design in business research, Wiley, 60; Evaluating and using business indicators. Address: Lionel D. Edie & Co, Inc, 530 Fifth Ave, New York, N.Y. 10036.

KILBRIDGE, PROF. MAURICE DORNEY, b. Chicago, Ill, June 2, 20; m. 58; c. 3. ECONOMIC DEVELOPMENT, URBAN PLANNING. B.A, Loyola (Ill), 43, M.A, 47; M.S, Ill. Inst. Tech, 51; Ph.D.(indust. econ), Iowa, 54. Asst. prof. math, Loyola (Ill), 46-48; indust. eng, Ill. Inst. Tech, 49-50, assoc. prof, 51-53, prof, 53-54; adv. econ. develop, Harvard Develop. Adv. Serv, 54-56; prof. indust. mgt, Chicago, 57-63; asst. dir. econ. develop, U.S. Agency Int. Develop. mission to India, 63-65; PROF, HARVARD, 65- Faculty res. fel. soc. rels, Harvard, 60-61. Consult, Nat. Planning Asn, 55-57. U.S.N, 43-46, Lt. Soc. Appl. Anthrop; Sociol. Asn; Inst. Mgt. Sci; Int. Acad. Law & Sci. Industrial aspects of economic development; industrial location and urbanization; analytical aspects of urban planning. Publ: The prospect for nuclear power in Pakistan, Nat. Planning Asn, 57; Productivity and the work-pay exchange, Univ. Chicago, 58; An economic model for the division of labor, Mgt. Sci, 65. Address: Harvard University Graduate School of Business Administration, Boston, Mass. 02163.

KILBURN, DR. H(YRUM) PARLEY, b. Morgan, Utah, Aug. 30, 04; m. 30; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Utah State, 31, M.S, 33; summers, Michigan, 37; Columbia, 38; Ed.D, Stanford, 50. Instr, Snow Col, 38-42; vis. prof, Utah State, 43, instr. & exec. secy, alumni asn, 44-45; supt, Utah State Indust. Sch, 45-50; PSYCHOLOGIST-COUNSR, BAKERSFIELD COL, 50-, DEAN EVE. DIV, 51- Instr, exten. serv, Utah State & Utah, 43-45; Weber Col, 43-44; dir. adult ed, Kern County Union High Sch. & Jr. Col. Dist, 54-65. Educational administration. Address: Bakersfield College, 1801 Panorama Dr, Bakersfield, Calif. 93305.

KILBY, EDWIN L(EWIS), JR, b. Washington, D.C, Sept. 19, 23; m. 47. ECONOMICS. B.S. & M.A, American Univ, 50. ANALYST ECON, U.S. GOVT, 50-U.S.C.G, 43-46. Econ. Asn. Economic implications of atomic energy for Argentina; comparative economic systems. Address: 1332 Titania Lane, McLean, Va. 22101.

KILBY, DR. PETER, b. Buffalo, N.Y, May 4, 35; m. 60; c. 3. ECONOMICS. B.A, Harvard, 57; M.A, Hopkins, 59; Fulbright res. fel, W. Africa, 59-60; D.Phil, Oxford, 67. Indust. economist, Agency Int. Develop, Nigeria, 60-62; ASST. PROF. ECON, WESLEYAN, 65- Consult, Int. Labor Orgn, Geneva, Switz, spring, 64; summers, Agency Int. Develop, 66, Dept. State, 67. Publ: African enterprise: the Nigerian bread industry, Stanford, 65; Industrialization in Nigeria 1945-1966, Cambridge Univ, 68; Organization and productivity in backward economies, Quart. J. Econ, 5/62. Address: Dept. of Economics, Wesleyan University, Middletown, Conn. 06457.

KILBY, PROF. RICHARD W(ALLACE), b. La Grande, Ore, Nov. 18, 19; m. 42; c. 1. PSYCHOLOGY. B.A, Whitman Col, 41; Washington (Seattle), 41-42; M.A, Yale, 43, scholar & Ph.D.(ed), 44. Asst. prof. PSYCHOL, North

Carolina, 44-46; Denver, 46-48; from assoc. prof. to PROF, SAN JOSE STATE COL, 48- Fulbright fel, India, 55-56. Psychol. Asn. Personality; human values; self-processes; Hindu-Buddhist psychology and meditation. Address: Dept. of Psychology, San Jose State College, San Jose, Calif. 95114.

KILEY, BONAVENTURE, T.O.R, Sociol, see 10th ed, Soc. & Behav. Vols.

KILHEFFER, PROF. ESTHER M(AY), b. Millersville, Pa, Mar. 30, 10. GEOGRAPHY. B.S, Pa. State Teachers Col.(Millersville), 32; M.A, Columbia, 41; summers, Northwestern, 56-57; Pa. State, 58-59. Teacher, pub. schs, Pa, 32-56; asst. prof. GEOG, MILLERSVILLE STATE COL, 56-58, ASSOC. PROF, 58- AAAS; Asn. Am. Geog; Nat. Coun. Geog. Ed. Publ: Co-auth, The evaluation of geography, J. Geog. Address: Dept. of Geography, Bassler Hall, Millersville State College, Millersville, Pa. 17551.

KILLIAN, DEAN C(ARL) D(AN), b. Hayesville, N.C, Apr. 10, 03; m. 40; c. 1. PSYCHOLOGY. B.S, N.C. State Col, 24; M.A, Columbia, 26; Ph.D.(psychol), Ohio State, 32. Mem. faculty, high sch, N.C, 33-34, prin, 34-35; PROF. PSYCHOL. & ED. & HEAD DEPT, WESTERN CAROLINA, 35-, DEAN SCH. ED. & PSYCHOL, 67- Mem, N.C. Adv. Coun. Teacher Ed, 50-; N.C. Coun. Higher Ed. for Adults, 63-; Southwest. N.C. Econ. Develop. Cmn, 66-; exec. cmt, N.C. Bd. Ment. Health, 66-71. Distinguished Serv. award, N.C. Asn. Retarded Children, 66. Psychol. Asn. Guidance. Address: School of Education & Psychology, Western Carolina University, Cullowhee, N.C. 28723.

KILLIAN, PROF. FREDERICK W(ILLIAM), b. New York, N.Y, Apr. 29, 00. SOCIOLOGY, CRIMINOLOGY. LL.B, N.Y. Univ, 25; A.B, Dana Col, 34; Columbia, 34-38; Rockefeller fel, Yale, 49-50. Asst. prof. govt. & sociol, Newark, 29-38; acting asst. prof. sociol, Oberlin Col, 38-39; attorney, Nat. Labor Rels. Bd, 39-40; lectr. sociol, City Col. New York, 40; state dir, N.J. Cmt. Constitutional Revision, 41, res. for revision, 41-47; dir, New Castle County Family Court, Del, 45-46; lectr. sociol, Wharton Sch, Pennsylvania, 46-47; ASSOC. PROF. SOCIOL, CLARK, 47-, ADV, PRE-LAW & PRE-SOC. WORK STUDENTS, 47-, head dept. sociol, 47-64. Mem. faculty, Boston, 54-56; lectr, Connecticut, 62; urban studies center, Rutgers, 64; Hofstra, 65-67; Oxford, 66 & 68; Leeds, 66; Sheffield, 68. Legal & res. consult, Nat. Parole & Probation Asn, N.Y, 42-45; consult. judicial admin. & juvenile courts, N.J. Constitutional Conv, 46-47; consult, Nat. Munic. League, 49; res. consult, United Prison Asn. of Mass, 55-56. Mem, Am. Steering Cmt, Paris Centennial Cong. Criminol, 50. Sociol. Asn. Sociology of law; institutions and criminology; juvenile courts; law and society. Publ: The juvenile court as an institution, Ann. Am. Acad. Polit. & Soc. Sci, 1/49; Jurisdiction, intake, and socialized justice, 3-4/49 & co-auth, Use of psychiatry in Soviet criminal proceedings, Part I, 7-8/50, Part II, 11-12/50, J. Criminal Law & Criminol. Address: Dept. of Sociology, Clark University, Worcester, Mass. 01610.

KILLIAN, PROF. LEWIS M(ARTIN), b. Darien, Ga, Feb. 15, 19; m. 42; c. 3. SOCIAL PSYCHOLOGY. A.B, Georgia, 40, A.M, 41; Ph.D, Chicago, 49. Asst. prof. SOCIOL, Oklahoma, 49-52; assoc. prof, Fla. State, 52-57, prof, 57-68, chmn. dept, 66-68; PROF. & HEAD DEPT, CONNECTICUT, 68- Vis. prof, California, Los Angeles, 65-66. Consult, cmt. disaster, Nat. Res. Coun, 52-; Fed. Community Rels. Serv, 64-66. Mem. Cmt. Sociol. Resources Secondary Schs, 65- U.S.A, 42-46, Maj. Fel. Sociol. Asn; Soc. Study Social Probs. Collective behavior; intergroup relations. Publ: Co-auth, Collective behavior & Racial crisis in America, Prentice-Hall, 64; The impossible revolution?, Random, 68. Address: Dept. of Sociology, University of Connecticut, Storrs, Conn. 06268.

KILLINGER, DR. GEORGE G(LENN), b. Marion, Va, Mar. 13, 08; m. 35; c. 3. PSYCHOLOGY. A.B, Wittenberg Col, 30, LL.D, 53; Kenan fel, North Carolina, 30, Ph.D.(psychol), 33. Instr. psychol, North Carolina, 32-33; asst. personnel dir, Mathieson Alkali Works, Va, 33-34; psychologist & spec. asst. to personnel dir, Tenn. Valley Authority, 34-36; dir. out-patient & soc. serv. dept, Southwest. State Hosp, Va, 36-37; psychologist, fed. reformatory, U.S. Pub. Health Serv, Ohio, 37-38; dir. ed. & asst. assoc. warden, U.S. Penitentiary, Ga, 38-41; dir. ed, U.S. Bur. Prisons, 41-43; chief psychobiol. prog, War Shipping Admin, 43-46; pres, Killinger Co, 46-47; chmn, Army Clemency & Parole Bd, 47-48; U.S. Bd. Parole, 48-58; prof. criminol. & corrections, Fla. State, 60-65; DIR. INST. CONTEMPORARY CORRECTIONS & BEHAV. SCI, SAM HOUSTON STATE COL, 65- Guest lectr, N.Y. Univ, 50-58; prof. lectr, George Washington, 53- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.P.H.S, Sr. Scientist. Fel. AAAS; fel. Psychol. Asn; Asn. Mil. Surg; Soc. Criminol. Nonprojective personality tests; criminology. Publ: Psychological program of the war shipping administration. Address: Institute of Contemporary Corrections & the Behavioral Sciences, Sam Houston State College, Huntsville, Tex. 77340.

KILLINGSWORTH, PROF. CHARLES C(LINTON), b. Webb City, Mo, Jan. 1, 17. ECONOMICS. A.B, Mo. State Col, 38; A.M, Okla. State, 39; Ph.D, Wisconsin, 47. Instr. polit. econ, Hopkins, 41-46; assoc. prof. econ, MICH. STATE, 47-49, prof. & head dept, 49-57, dir. labor & indust. rels. center, 56-59, UNIV. PROF. LABOR & INDUST. RELS, 60- Asst, Twentieth Century Fund, 40; chief anal. studies unit, Soc. Security Admin, 45-46; permanent impartial umpire, Bethlehem Steel Co. & United Steelworkers, 47-52; nat. umpire, U.S. Rubber Co. & Rubber Workers, 53-55; umpire, Ford Motor Co, United Automobile Workers, 55-58; nat. umpire, Goodyear Tire & Rubber Co. & Rubber Workers, 59-61; permanent arbitrator, Youngstown Sheet & Tube Co. & United Steelworkers, 62-67. Pub. panel chmn, War Labor Bd, 43-45, from consult. to chmn, Nat. Wage Stabilization Bd, 51-53; mem, Nat. Manpower Policy Task Force, 65- Econ. Asn; Indust. Rels. Res. Asn; Acad. Arbit.(pres, 68). Labor laws and economics; trade unionism; automation. Publ: Co-auth, Employment problems of automation and advanced technology, St. Martins, N.Y. & Macmillan, London, 66; Employment, race and poverty, Harcourt, 67; Jobs and income for Negroes. Address: 852 Lantern Hill Dr, East Lansing, Mich. 48823.

KILLION, DR. MEAD WILBUR, b. Clinton, Ill, Aug. 16, 12; m. 34; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Eastern Michigan, 38; M.A, Michigan, 41, Ed.D, 53. Teacher, Fair Haven Sch, 38-41; instr. hist. & soc. scis. & dean men, Spring Arbor Jr. Col, 41-43, 46-49; asst. staff psychologist, Ford Motor Co, 43-46; instr. psychol, Wayne State, 49-52; consult. psychologist, Rohrer, Higler & Replogle, 52-56; prof. ed. & psychol. & dir. teacher ed, Roberts Wesleyan Col, 56-60; consult. orgn. & personnel, Ernst & Ernst, 60-62; mgt. consult, Case & Co, Ohio, 62-64; Fry Consults, Inc, Ill, 64-66; CHIEF PSYCHOLOGIST, CAN. IMPERIAL BANK OF COMMERCE, 66- Psychol. Asn. Higher and teacher education; industrial organization and management. Publ: Some relationships between delinquency and school experiences. Address: 4 S. Kingslea Dr, Toronto 18, Ont, Can.

KILLOUGH, PROF. HUGH B(AXTER), b. Waco, Tex, Dec. 30, 92. ECONOMICS. B.S, Agr. & Mech. Col, Tex, 16; M.S, Wisconsin, 20; Ph.D, Columbia, 25. Instr, Minnesota, 20-21; asst. economist, bur. agr. econ, U.S. Dept. Agr, 23-24; from asst. prof. to prof. ECON, BROWN, 24-59, EMER. PROF, 59- Vis. prof, Northeastern, 59-62; prof, Inter-Am. Univ. P.R, 63. Economist, U.S. Bur. Labor Statist, 43-46; mission to Taiwan, Econ. Coop. Admin, 50; J.G. White Eng. Corp, Indonesia, 52. Econ. Asn. International trade and relations; economics of international trade. Publ: International trade; co-auth, International relations; International economics. Address: 515 Krueger Pkwy, Stuart, Fla. 33494.

KILLOUGH, PROF. LUCY WINSOR, b. Clinton, Mass, Apr. 16, 97; m. 23; c. 1. ECONOMICS. A.B, Vassar Col, 19; A.M, Stanford, 21; Ph.D, Columbia, 25. Asst. prof. ECON, WELLESLEY COL, 29-41, assoc. prof, 41-47, prof, 47-62, EMER. PROF, 62- Analyst, For. Econ. Admin, 43-45; vis. prof, Inter-Am. Univ. P.R, spring 63. Econ. Asn. Public finance. Publ: Raw materials of industrialism; co-auth, Economics of international trade & International economics. Address: 515 Krueger Pkwy, Stuart, Fla. 33494.

KILPATRICK, DEAN FRANKLIN PEIRCE, b. Okanogan, Wash, Apr. 30, 20; m. 43; c. 4. SOCIAL PSYCHOLOGY. B.A, Washington (Seattle), 42, M.S, 47; M.A, & Ph.D, Princeton, 50. Instr. psychol, Princeton, 50-52, asst. prof, 52-55; head, res. develop. div, Nat. Analysts Inc, Pa, 55-59; sr. staff mem. soc. psychol, Brookings Inst, 59-67, DEAN COL. GRAD. STUDIES, DELAWARE, 67- U.S.A, 42-46, 1st Lt. Fel. Psychol. Asn. Perception and social behavior. Publ: Human behavior from the transactional point of view; Explorations in transactional psychology; co-auth, Image of the federal service, Brookings, 64. Address: College of Graduate Studies, University of Delaware, Newark, Del. 19711.

KILPATRICK, DR. ROBERT W(YLIE), b. Washington, D.C. ECONOMICS. B.A, Haverford Col, 57; Merrill Lynch, Pierce, Fenner fel. & Beane-Currier fel, Yale, 57-58, M.A, 58, univ. fel, 58-59, Ford Found. fel, 59-60, Ph.D. (econ), 65. Asst, ECON, Yale, 60-61; Nat. Bur. Econ. Res, 61-62; ASST. PROF, CORNELL, 62- Guest scholar, Brookings Inst, summer 62; Nat. Sci. Found. res. grant, 65-66. Econ. Asn; Nat. Tax Asn; Economet. Soc. The incidence of the corporation income tax; profit rate behavior. Publ: The short-run forward shifting of the corporation income tax, Yale Econ. Essays, fall 65; The choice among alternativé measures of industrial concentration, Rev. Econ. & Statist, 5/67. Address: Dept. of Economics, Cornell University, Ithaca, N.Y. 14850.

KILPATRICK, PROF. WYLIE, Econ, see 10th ed, Soc. & Behav. Vols, deceased 65.

KILSON, DR. MARION D. deB, b. New Haven, Conn, May 8, 36; m. 59; c. 3. SOCIAL ANTHROPOLOGY. B.A, Radcliffe Col, 58; M.A, Stanford, 59; Ph.D. (soc. anthrop), Harvard, 67. Instr. ANTHROP, MASSACHUSETTS, BOSTON, 66-67, ASST. PROF, 67- Fel. Anthrop. Asn; fel. African Studies Asn. Social change and continuity in Accra, Ghana; Mende folklore. Publ: Social relationships in Mende Domeisia, Sierra Leone Studies, 61; Towards freedom: an analysis of slave revolts in the U.S, Phylon, 64; Variations in Ga culture in Central Accra, Ghana J. Sociol, 67. Address: 54A Garden St, Cambridge, Mass. 02138.

KIM, DR. B(ENEDICT) SANG JOON, b. Ulsan, Korea, July 12, 32; m. 67. POLITICAL SCIENCE. B.S.F.S, Georgetown, 57, M.S.F.S, 59; Boies, Wilson & univ. fels & Ph.D.(int. rels), Yale, 64. Instr. POLIT. SCI, Mt. St. Joseph Col, 62-64; ASST. PROF, ST. JOHN'S (N.Y), 64- Polit. Sci. Asn. United States and South East Asia Treaty Organization; United States aid to Korea. Address: Dept. of Political Science, St. John's College, Grand Central & Utopia Pkwy, Jamaica, N.Y. 11432.

KIM, PROF. C(HONG) I(K) EUGENE, b. Seoul, Korea, Nov. 2, 30. POLITICAL SCIENCE. B.A, King Col, 52; M.A, Vanderbilt, 54; Ph.D, Stanford, 59. Asst. mkt. & advert, Oxtoby-Smith, Inc, N.Y, 58-59; study dir, Marplan Div, Communications Affiliates, Inc, N.Y, 59-60; asst. prof. POLIT. SCI, Black Hills Teacher's Col, 60-61; WESTERN MICHIGAN, 61-66, ASSOC. PROF, 66- Am. Philos. Soc. res. grants, 65-67; Western Michigan faculty res. fel, 66-67. Exec. dir, Korea Res. & Pub, Inc, 62- Polit. Sci. Asn; Asn. Asian Studies. Western and non-western politics; political socialization and recruitment; military in politics; application of behavioral approach to study of non-western politics. Publ: Co-auth, Korea and the politics of imperialism, Univ. Calif, 67 & The April 1960 Korean student movement, West. Polit. Quart, 3/64; Significance of the 1963 Korean elections, Asian Surv, 3/64. Address: Dept. of Political Science, Western Michigan University, Kalamazoo, Mich. 49001.

KIM, DR. KYE CHIL, b. Masan, Korea, Aug. 23, 33. ECONOMICS. B.A, Korea Univ, 58; Ph.D.(econ), State Univ, N.Y. Buffalo, 64. ASST. PROF. ECON, Bridgeport, 64-66; Connecticut, 66-67; STATE UNIV. N.Y. COL. BROCKPORT, 67- Consult, N.Y. State Conserv. Dept, 64-67. Econ. Asn; Economet. Soc. Labor economics; regional and urban economics; econometrics. Address: Dept. of Economics, State University of New York College at Brockport, Brockport, N.Y. 14420.

KIM, DR. KYUNG-WON, b. Chinnampo, Korea, June 12, 36; m. 60; c. 2. POLITICAL SCIENCE. B.A, Williams Col, 59; Ph.D.(polit. sci), Harvard, 63. Asst. prof. polit. sci, York (Ont), 63-66; Can. Coun. sr. res. fel, 66-67; ASST. PROF. POLIT. SCI, N.Y. UNIV, 67- Polit. Sci. Asn. International security; impact of domestic political resolution on international system;

theory of international relations; problems in political theory. Publ: Ideology and political development in South Korea, Pac. Affairs, summer 65; The limits of behavioral explanation in politics, Can. J. Econ. & Polit. Sci, 8/65. Address: 4 Washington Square Village, Apt. 2-A, New York, N.Y. 10012.

KIM, DR. RICHARD C(HONG) C(HIN), b. Waihee, Hawaii, Dec. 16, 23; U.S. citizen; m. 41; c. 3. POLITICAL & SOCIAL SCIENCE. B.A, Okla. Baptist, 56; M.A, Oklahoma, 58, Ph.D.(polit. sci), 63. Clerk, Am. Can Co, 45-50, supvr. qual. control, 50-53; asst. polit. sci, Oklahoma, 58-61; asst. prof, Hardin-Simmons, 61-63, assoc. prof. & head dept, 63, prof. polit. sci. & chmn. div. soc. sci, 64; Fulbright lectr, India, 65-66; ASSOC. PROF. POLIT. SCI, STEPHEN F. AUSTIN STATE COL, 67- Lectr, Far East Div, Maryland, spring 68; vis. prof, Inter-Am. Univ, summer 67. Consult. jr. cols, Nat. Defense Ed. Act, 67. U.S.A, 42-45. Extent of the effect of values and preconceived notions on present-day social disturbances. Publ: A Roman Catholic president in the American schema, J. Church & State, 5/61; Constitutional legacy of Jehovah's Witnesses, Southwest. Soc. Sci. Quart, 9/64; The Supreme Court: oracle of truth, Rocky Mountain Soc. Sci. J. 10/67. Address: Dept. of Political Science, Stephen F. Austin College, Nacogdoches, Tex. 75961.

KIM, DR. SAMUEL S, b. Hamheung, Korea, June 12, 35; m. 65. POLITICAL SCIENCE. B.A, Southwestern at Memphis, 60; M.I.A, Columbia, 62, Ph.D. (int. rels), 66. Instr. POLIT. SCI, Berea Col, 64-65; lectr, Brooklyn Col, 66; ASST. PROF, MONMOUTH COL.(N.J), 66- Polit. Sci. Asn; Am. Soc. Int. Law; Acad. Polit. Sci. International relations in general; American and Communist China's foreign policies in particular. Address: Dept. of Political Science, Monmouth College, West Long Branch, N.J. 07764.

KIM, DR. SE JIN, b. Pyongyang, Korea, Jan. 16, 33; m. 63; c. 2. POLITICAL SCIENCE. B.A, Southwestern at Memphis, 59; M.A, Massachusetts, Amherst, 62, Ph.D.(govt), 66. Instr. POLIT. SCI, EASTERN KENTUCKY, 62-65, asst. prof, 65-67, ASSOC. PROF, 67- Faculty fel, North Carolina, 68-69. Polit. Sci. Asn. The role of the military in political and economic modernization. Address: Dept. of Political Science, Eastern Kentucky University, Richmond, Ky. 40475.

KIM, DR. SHINKYUNG, b. Seoul, Korea, Feb. 22, 34; U.S. citizen; m. 61; c. 1. ECONOMICS. Ph.D.(econ), Wayne State, 64. Instr. econ, Pittsburgh, 62-63; Wayne State, 63-64; ASST. PROF, Drake 64-66; STATIST, HAWAII, 66- Econ. Asn; Economet. Soc. Interregional differences in productivity. Address: Dept. of Business Economics & Statistics, University of Hawaii, Honolulu, Hawaii 96822.

KIM, DR. SUN KEE, b. Kangnung, Korea, Mar. 29, 33; m. 67. ECONOMICS. B.S, Seoul, 56; M.A, Missouri, 59; Ph.D.(econ), Southern California, 66. Lectr. ECON, Southern California, 64; ASST. PROF, Biola Col, 64-66; CALIF. STATE COL. LOS ANGELES, 66- Income distribution theory. Address: Dept. of Economics, California State College at Los Angeles, 5151 State College Dr, Los Angeles, Calif. 90032.

KIM, DR. THOMAS KUNHYUK, b. Shanghai, China, Feb. 18, 29; m. 58; c. 2. ECONOMICS. B.A, Berea Col, 52; M.B.A, Indiana, 54; Ph.D.(econ), Tulane, 61. Instr. ECON, Berea Col, 57-58; asst. prof, Akron, 61-62; prof, Baker, 62-65; ASSOC. PROF, TEXAS TECH. COL, 65- Econ. Asn. Microeconomic theory; mathematical economics; econometrics. Publ: Introduction to mathematical economics, Scott, (in press). Address: Dept. of Economics, Texas Technological College, Lubbock, Tex. 79409.

KIM, DR. UOONG TACK, b. Korea, Feb. 21, 39; m. 65. INTERNATIONAL RELATIONS. B.A, Texas Christian, 60, M.A, 61; M.A, Pennsylvania, 63, Ph.D.(int. rels), 67. Instr. POLIT. SCI, Pa. Mil. Col, 61-63; ASST. PROF, East. Baptist Col, 63-65; PMC COLS, 65- Polit. Sci. Asn; Asn. Asian Studies. North Korea between Moscow and Peking. Publ: Interstate relations between Communist China and North Korea, Asian Surv, 5/68. Address: Dept. of Political Science, PMC Colleges, Chester, Pa. 19013.

KIM, DR. YOON HOUGH, b. Hamhung, Korea, May 10, 29; m. 57; c. 5. SOCIOLOGY. LL.B, Dong Ah Univ, Korea, 58; M.A, Minnesota, 64, Ph.D. (sociol), 67. Sr. caseworker, Foster Parents' Plan, Pusan, Korea, 58-60, off. mgr, 60-62; ASST. PROF. SOCIOL, EAST CAROLINA, 67- Sociol. Asn; Nat. Coun. Family Rels. Inter-group relations, particularly between the blind and the sighted; human relations in the family. Address: 116 Park Dr. N, Greenville, N.C. 27834.

KIM, PROF. YOUNG-CHIN, b. Seoul, Korea, Aug. 16, 28; m. 57; c. 1. POLITICAL SCIENCE. M.A, Vanderbilt, 56; Harrison fel, Pennsylvania, 56-58. Ph.D, 58. Ed. supvr, field opers. div, civil info. & ed. sect, UN, 51-52, researcher-translator, hqs, 52-53; researcher-writer, psychol. warfare sect, Far East Command, U.S. Dept. Army, 53-54; instr. POLIT. SCI, HOBART & WILLIAM SMITH COLS, 58-59, asst. prof, 59-63, ASSOC. PROF, 63- Vis. asst. prof, Vanderbilt, 62-63; Ford Found. faculty fel, Michigan, summer, 64; N.Y. State res. grant Oriental studies, Columbia, 64-65. Polit. Sci. Asn; Asian Studies. Foreign and comparative government; international politics; process of Japanese foreign policy formulation and execution. Publ: The functions of political orientations, World Polit, 1/64; The concept of political culture in comparative politics, J. Polit, 5/64; Political recruitment, Am. Polit. Sci. Rev, 12/67. Address: Dept. of Political Science, Hobart & William Smith Colleges, Geneva, N.Y. 14456.

KIM, PROF. YOUNG HUM, b. Kimpo, Korea, Dec. 19, 20; U.S. citizen; m. 58. POLITICAL SCIENCE. B.S, Bradley, 55; M.A, Southern California, 56, Ph.D.(polit. sci), 60. Res. assoc. int. rels, Southern California, 60-61; PROF. POLIT. SCI. & HIST, CALIFORNIA WESTERN, 61- Acad. Polit. & Soc. Sci. Asian history; world politics. Publ: East Asia's turbulent century, Appleton, 66; Patterns of competitive coexistence, Putnam, 66; Twenty years of crises: the cold war era, Prentice-Hall, 68. Address: Dept. of Political Science, California Western University, San Diego, Calif. 92106.

KIMBALL, DR. ALAN, Russian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KIMBALL, DR. CHASE, b. Waterbury, Conn, Jan. 20, 02; m. 42; c. 3. INTERNATIONAL LAW. A.B, Yale, 25, LL.B, 28, A.M, 47; Ph.D.(int. law), Fletcher Sch. Law, 55. Law Clerk, War Claims Arbitor, Wash, D.C, 28-29; Bristol & White, New Haven, Conn, 30-31; attorney at law, 31-42; asst. prof. int. rels, Denver, 47; Boston, 47-53; ASSOC. PROF. hist. & govt, Hartford, 59-60; int. law & govt, Assumption Col, 60-61; GOVT. & ECON, SUFFOLK, 63- Dir, Gaylord Farm Sanatorium, 33- Trustee, Berea Col, 35- U.S.A, 42-46, Capt. Polit. Sci. Asn; Am. Soc. Int. Law; Bar Asn; Int. Law Asn. Publ: Handbook on international relations. Address: Dept. of Government, Suffolk University, 41 Temple St, Boston, Mass. 02114.

KIMBALL, PROF. ELSA PEVERLY, b. Northfield, N.H, Mar. 8, 89. SOCIOLOGY. A.B, Cincinnati, 19; A.M, Columbia, 23, Ph.D.(sociol), 32; London Sch. Econ, 35-36. Instr. sociol, Smith Col, 26-28, asst. prof, 28-30; prof. & head dept. Eng. & lectr. soc. sci, Am. Col. Women, Istanbul, Turkey, 32-35; prof. sociol, Russell Sage Col, 37-38; prof. & head dept. econ. & sociol, MacMURRAY COL, 38-48, prof. & head dept. SOCIOL, 48-57, EMER. PROF, 57- Lectr, univ. exten, Columbia, 32. Mem, Jacksonville Cmn. Human Rels. Sociol. Asn. Social theory and change; family. Publ: Sociology and education, an analysis of the theories of Herbert Spencer and Lester Frank Ward, 32. Address: 1054 W. LaFayette Ave, Jacksonville, Ill. 62650.

KIMBALL, MILO, Bus. Admin, see 10th ed, Soc. & Behav. Vols. Latest known address: 43 Mercury Court, West Springfield, Mass. 01089.

KIMBALL, PROF. PENN TOWNSEND, b. New Britain, Conn, Oct. 12, 15; m. 47; c. 1. MASS COMMUNICATION. B.A, Princeton, 37; Rhodes scholar. & M.A, Oxford, 46; Yale, 51; Columbia, 51-58. Contrib. ed, Time Mag, 46-47; sr. ed, New Repub, 47; asst. to Sunday ed, New York Times, 51-53; feature ed, Omnibus TV Prog, Columbia Broadcasting Syst, 53-54; sr. ed, Collier's Mag, 54-57; PROF. JOURNALISM, GRAD. SCH. JOURNALISM, COLUMBIA, 59- U.S.M.C.R, 41-61, Maj. Asn. Pub. Opinion Res. Publ: Co-auth, The United States and Latin America, Am. Assembly, 59; The professions in America, Houghton, 65; Bobby Kennedy and the new politics, Prentice-Hall, 68. Address: Dept. of Journalism, Graduate School of Journalism, Columbia University, New York, N.Y. 10027.

KIMBALL, PROF. SOLON T(OOTHAKER), b. Manhattan, Kans, Aug. 12, 09; m. 35; c. 2. SOCIAL ANTHROPOLOGY. B.S, Kansas State, 30, hon. D.Sc, 63; Sheldon traveling fel. & A.M, Harvard, 33, Ph.D.(soc. anthrop), 36. Head sect. socio-econ. surys, Navajo Reservation, Off. Indian Affairs, 36-42; head sect. community govt, War Relocation Authority, 42-45; assoc. prof. anthrop, Mich. State Col, 45-48; prof. sociol. & head dept. sociol. & anthrop, Alabama, 48-53; prof. ed. & anthrop, teachers col, Columbia, 53-66; GRAD. RES. PROF. ANTHROP, FLORIDA, 66- Soc. Sci. Res. Coun. faculty res. fel, 61-62; Guggenheim fel, 66-67; with State Dept. Fulbright Planning Team to Brazil, 67. Consult. for UNESCO, Brazilian Center Ed. Res, 58-59; campus coordinator, Teachers College-Agency Int. Develop. Ed. Develop. in Peru Proj, 63-64. Fel. Anthrop. Asn; fel. Soc. Appl. Anthrop.(pres, 52-53); fel. Sociol. Asn. Contemporary communities; applied anthropology; education. Publ: Co-auth, Family and community in Ireland, Harvard, 40, Education and the new America, Random, 62 & Culture and community, Harcourt, 65. Address: Dept. of Anthropology, University of Florida, Gainesville, Fla. 32603.

KIMBER, DR. J(OHN) A(NTHONY) MORRIS, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 68.

KIMBERLY, DR. JAMES C(ARLTON), b. Savannah, Ga, Mar. 10, 27; m. 49. SOCIOLOGY, PSYCHOLOGY. B.A, Emory, 50, M.A, 55; Ph.D.(sociol), Duke, 63. Nat. Inst. Ment. Health fel, 62-63; asst. prof. sociol, Stanford, 63-68; ASSOC. PROF. SOCIOL. & DIR. GRAD. STUDIES FOR SOCIOL, EMORY, 68- Prin. investr. spec. proj. & consult. grant proposals, Nat. Sci. Found, 65- U.S.A, 45-47. AAAS; Sociol. Asn. Social stratification; interpersonal behavior; social psychology. Publ: A theory of status equilibration, In: Vol. I, 66 & Relations among status, power, and economic rewards in simple and complex social systems, In: Vol. II, 68, Sociological theories in progress, Houghton; co-auth, An experimental test of a reward-cost formulation of status inconsistency, J. Exp. Soc. Psychol, 67. Address: Dept. of Sociology & Anthropology, Emory University, Atlanta, Ga. 30322.

KIMBLE, DR. DANIEL PORTER, b. Chicago, Ill, Nov. 18, 34; m. 63; c. 2. PHYSIOLOGICAL PSYCHOLOGY. B.A, Knox Col.(Ill), 56; M.A, Michigan, 60, Ph.D.(psychol), 61. Nat. Inst. Ment. Health fel, 61-63; asst. prof. psychol, OREGON, 63-66, ASSOC. PROF.PSYCHOL. & DIR. ANIMAL LABS, 66- Nat. Inst. Ment. Health res. grant, 63-69. Psychol. Asn. Learning and memory in mammals, particularly the neural mechanisms underlying these phenomena; psychopharmacology. Publ: Physiological psychology, Addison-Wesley, 63; ed, Anatomy of memory, Sci. & Behav, 65; Organization of recall, N.Y. Acad. Sci, 67. Address: Dept. of Psychology, University of Oregon, Eugene, Ore. 97403.

KIMBLE, DR. GEORGE H(ERBERT) T(INLEY), b. London, Eng, Aug. 2, 08; m. 35; c. 2. GEOGRAPHY. B.A, London, 19, M.A, 31; Ph.D.(geog), Montreal, 48. Lectr. geog, Hull, 31-36; Reading, 36-39; prof. geog. & dir. meteorol. observ, McGill, 45-50, commanding officer naval training div, 46-47; vis. prof, California, 48-49; dir, Am. Geog. Soc, 50-53; surv. trop. Africa, Twentieth Century Fund, 53-60; prof. geog, Indiana, 57-66, chmn. dept, 57-62; res. dir, U.S. Geog. Proj, Twentieth Century Fund, 62-68. Rushton lectr, 53; Borah lectr, 56; vis. prof, Stanford & Stockholm, 61; Haynes lectr, 66. Secy-treas, Int. Geog. Union, 49-56, chmn. cmn. humid tropics, 56-61. R.N, 39-44, Lt. Comdr. Fel. Am. Geog. Soc; Asn. Am. Geog; fel. Royal Geog. Soc; fel. Royal Meteorol. Soc. History of cartography and geographical thought; tropical Africa; climatology. Publ: Our American weather; Tropical Africa; Geography in the middle ages. Address: La Marine de Davia, Corse, France.

KIMBLE, PROF. GREGORY A(DAMS), b. Mason City, Iowa, Oct. 21, 17; m; c. 2. PSYCHOLOGY. A.B, Carleton Col, 40; M.A, Northwestern, 42; Ph.D. (psychol), Iowa, 45. Instr. PSYCHOL, Brown, 45-47, asst. prof, 47-50; Yale, 50-52; assoc. prof, Duke, 52-59, prof, 59-68; PROF. & CHMN. DEPT, COLORADO, 68- Mem. exp. psychol. study sect, Nat. Insts. Health, 60-64,

chmn, 63-64; exp. psychol. rev. bd, Nat. Inst. Ment. Health, 67-71. AAAS; Psychol. Asn; Psychonomic Soc. Conditioned responses; theory of learning. Publ: Hilgard and Marqui's conditioning and learning, 61 & ed. & co-auth, Foundations of conditioning and learning, 67, Appleton; co-auth, Principles of general psychology, Ronald, 68, 3rd ed. Address: Dept. of Psychology, University of Colorado, Boulder, Colo. 80302.

KIMBLE, DR. JAMES P, JR, Statist, see 10th ed, Soc. & Behav. Vols.

KIMBROUGH, DR. EMORY, JR, b. Clarksville, Tenn, Nov. 15, 34. SOCIOLOGY. A.B, Davidson Col, 57; M.A, North Carolina, 59, Ph.D.(sociol), 63. Instr. SOCIOL, WASHINGTON & LEE, 62-63, asst. prof, 63-66, ASSOC. PROF, 66-, CHMN. DEPT, 67- Sociol. Asn; Pop. Asn. Industrial and urban sociology; sociology of complex organizations; role of the business executive. Address: Dept. of Sociology, Washington & Lee University, Lexington, Va. 24450.

KIMBROUGH, DR. WILSON WHITAKER, JR, b. Springdale, Ark, Mar. 29, 26; m. 51; c. 4. SOCIAL PSYCHOLOGY. B.A, Arkansas, 48, M.A, 49; Ph.D, Maryland, 56. Instr. PSYCHOL, Juniata Col, 52-55, asst. prof, 55-56; ARKANSAS, 56-61, ASSOC. PROF, 61- Vis. lectr, guid. & counseling inst, Florida, 61. U.S.N.R, 44-47, Lt.(jg). Psychol. Asn. Small group problem solving; attitude change; guidance; counseling. Publ: Co-auth, Method for evaluating discrete continuous associations, J. Psychol; Attitudes and stimuli as determiners of response, Psychol. Reports. Address: Dept. of Psychology, University of Arkansas, Fayetteville, Ark. 72701.

KIMMEL, PROF. H(ERBERT) D(AVID), b. Brooklyn, N.Y, May 22, 27. EXPERIMENTAL PSYCHOLOGY. B.S, Florida, 48; M.A, N.Y. Univ, 51; Ph.D, Southern California, 58. Biol. technician, Merck Inst. Therapeut. Res, 48-49; psychometrist, pub. sch, Calif, 51-52; res. assoc. psychol, Human Factors Res, Inc, 53-58; asst. prof, Florida, 58-62, assoc. prof, 62-65, res. assoc. psychiat, col. med, 61-65; PROF. PSYCHOL, OHIO, 65- Res. scientist, Psychol. Res. Assocs, Inc, 59; vis. asst. prof, Duke, 51; U.S. Pub. Health Serv. grants operant conditioning of galvanic skin response, 62-69. Summers, vis. prof, Puerto Rico, 63, vis. assoc. prof, Southern California, 64. U.S.N, 44-45. Psychol. Asn; Psychomet. Soc; Psychonomic Soc. Human learning and behavior theory; autonomic conditioning. Publ: Inhibition of the unconditioned response in classical conditioning, Psychol. Rev, 66; Instrumental conditioning of autonomically mediated behavior, Psychol. Bull, 67; Retention of habituation of the galvanic skin response, J. Exp. Psychol, 67. Address: Dept. of Psychology, Ohio University, Athens, Ohio 45701.

KIMMEL, DR. JAMES, b. New York, N.Y, July 19, 28; m. 51; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 51, M.A, 52; Ph.D.(clin. psychol), 58. Intern psychol, Jewish Chronic Disease Hosp, Brooklyn, N.Y, 54-55; chief psychologist, Bleuler Psychotherapy Center, Queens, N.Y, 55-62; staff psychologist, Pleasantville Cottage Sch, 63-64; CHIEF PSYCHOLOGIST, PRIDE OF JUDEA CHILDREN'S SERV, BROOKLYN, 64- Resident psychologist, Jewish Chronic Disease Hosp, 55-57; sr. clin. psychologist, Creedmoor State Hosp, Queens, 57-59; private practice, 57- Psychol. Asn. Childhood psychoses; psychotherapy with schizophrenic children; psychotherapy theory and practice with children and adults; supervision of psychotherapy. Publ: Psychotherapy with schizophrenic children, 66 & Cultural factors in childhood psychoses, 67, Reports Treatment & Ed. Psychotic Children. Address: 515 West End Ave, New York, N.Y. 10024.

KIMMEL, DR. LEWIS H(ENRY), b. Dillsburg, Pa, Oct. 24, 99. ECONOMICS. A.B, Pa. State Col, 21; M.B.A, Pennsylvania, 27, Ph.D, 34. Instr. econ, Lafayette Col, 21-22; traveling auditor, Weaver Piano Co, Pa, 22-25; instr. finance, Pennsylvania, 25-29; mem. res. staff, Nat. Indust. Conf. Bd, 29-40; Brookings Inst, 41-64; RETIRED. Econ. Asn. Budget theories; fiscal policy. Publ: Taxes and economic incentives; Share ownership in the United States; Federal budget and fiscal policy. Address: 5910 Springfield Dr, Washington, D.C. 20016.

KIMMEL, DR. PAUL R, b. Urbana, Ohio, Mar. 27, 36; m. 64. SOCIAL PSYCHOLOGY. B.A, Ohio Wesleyan, 58; M.A, Michigan, 60, Ph.D.(soc. psychol), 63. Asst. prof. sociol, Iowa State, 63-66; RES. SCIENTIST manpower, U.S. Dept. Labor, 66-67; TRAINING FOR. NATIONALS, AMERICAN UNIV, 67- U.S.N.A.F.R. Soc. Psychol. Study Social Issues. The cognitive and epistemological dimensions of cross-cultural communication; interdependence in primary relationships; the meaning of work. Publ: Identification and modification of the social correlates of economic dependency, Welfare Admin, U.S. Dept. Health, Ed. & Welfare, 66; co-auth, Research on work and the worker in the U.S, Univ. Mich. Surv. Res. Center, (in press) & Game theory vs. mutual identification: two criteria for assessing marital relationships, J. Marriage & Family, 11/66. Address: DETRI, American University, 5185 MacArthur Blvd. N.W, Washington, D.C. 20016.

KIMURA, DR. DOREEN, Psychol, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KIMURA, DR. YUKIKO, b. Yokohama, Japan, Feb. 24, 03; U.S. citizen. SOCIOLOGY. M.A, Oberlin Col, 37; M.A, Hawaii, 47; Ph.D.(sociol), Chicago, 52. Student work secy, YWCA, Kyoto, Japan, 24-28; world fel. secy, Nat. YWCA, Melbourne, Australia, 28-29, Wellington, N.Z, 30, gen. secy, Nagoya, Japan, 31-35, sec. in charge, Japanese work, int. inst, Honolulu, 38-44; lang. specialist, Fed. Commun. Cmn. & Off. War Info, 44-45; RESEARCHER SOCIOL, UNIV. HAWAII, 53- Sociol. Asn. Comparative study of relations between the Japanese and the larger community in Hawaii and the Pacific coast area of the United States; Okinawans in Hawaii, an ethnic sub-group. Publ: Sociological significance of Japanese language school campaign in Hawaii, 56 & Religious affiliation of war brides in Hawaii and their marital adjustment, 63, Soc. Process; War brides in Hawaii and their in-laws, Am. J. Sociol, 7/57. Address: 2136 Lanihuli Dr, Honolulu, Hawaii 96822.

KINABREW, PROF. RANDOLPH G(EORGE), b. Miss, Dec. 15, 09; m. 43; c. 1. ECONOMICS. B.A, Miss. Col, 37; M.A, La. State, 47, Ph.D.(econ), 50. Asst. prof. ECON, MISSISSIPPI, 48-50, assoc. prof, 50-56, PROF, 56-, ASSOC. DEAN BUS, 65- Fund Adv. Ed. fels, Harvard, 54-55; Duke, 58; Gen. Elec. Found. fel, Chicago, 61. U.S.A.A.F, 44-45. Economic development; price theory; public economic policy. Publ: Mississippi manufacturing, Miss. Econ. Coun, 62; Barriers to Mississippi's economic development, Miss. Tech. Cmn, 59; Southern metal products corporation, In: Business policy cases, Irwin, 63. Address: Dept. of Economics, Conner Hall, University of Mississippi, University, Miss. 38677.

KINCAID, DR. DONALD JOSEPH, b. Tacoma, Wash, Jan. 10, 11; m. PSYCHOLOGY. B.A, California, Berkeley, 35, M.A, Los Angeles, 41; Ed.D. (psychol, guid), Southern California, 56. Teacher, high schs, Calif, 40-42; supvr. & coordinator adv. serv, LOS ANGELES CITY SCHS, 46-49, supvr. voc. guid, 49-52, DIR. GUID. & COUNSELING, 52- U.S.A.A.F, 42-46, 1st Lt. Psychol. Asn. School psychology, guidance and counseling; the gifted child. Publ: Contrib, Survey of the education of gifted children, Gifted child: another look & Practical programs for the gifted. Address: 1316 Malcolm Ave, Los Angeles, Calif. 90024.

KINCAID, DR. HARRY V, b. Tacoma, Wash, Oct. 4, 18; m. 46; c. 2. SOCIOLOGY. B.A, California, 48; M.A, Stanford, 50, Haynes Found. fel, 52, Ph.D. (sociol), 53. Res. assoc, bur. appl. soc. res, Columbia, 53-55; SR. SOCIOLOGIST, STANFORD RES. INST, 56- U.S.A.A.F, 42-46, Sgt. Sociol. Asn. Education research; curricula improvement; experimental instruction; medical and paramedical education; design and analysis of sample surveys; economic and social aspects of international development; medical sociology. Publ: Co-auth, Some social aspects of wartime evacuation of American cities, The Tandem interview; a trial of the two-interviewer team, Pub. Opinion Quart. & Interviewing the Business elite, Am. J. Sociol. Address: Applied Social Science Research, Stanford Research Institute, Menlo Park, Calif. 94303.

KINCAID, DR. WILFRED M(ACDONALD), Math, see 11th ed, Phys. & Biol. Vols.

KINCANNON, PROF. JOHN ALVIN, b. Bryan, Tex, June 19, 13; m. 40; c. 3. ECONOMICS, MATHEMATICS. B.S, Agr. & Mech. Col, Tex, 39, M.S, 49, Ph.D, 52; N.C. State Col, 56. With civil eng. dept, Shell Oil Co, 37-38; teacher, pub. schs, Tex, 39-43; prof. math, Texas A&M, 46-54, assoc. prof. econ, 54-67; PROF. MATH. & PHYSICS & HEAD DEPT, TARLETON STATE COL, 67- Consult, U.S. Dept. Labor, 61. U.S.A.F, 43-46, Sgt. Econ. Asn; Agr. Econ. Asn; Economet. Soc; Statist. Asn; Math. Soc. Economic policy; price analysis; farm real estate taxes; transportation economics. Publ: Statistical analyses of rice supply and demand before and during government programs; Factors affecting Texas farm commodity prices and index computation methods, 1910-1958; Statistical analysis of the grain sorghum industry. Address: 746 Ollie St, Stephenville, Tex. 76401.

KINDAHL, PROF. JAMES K(EITH), b. Chicago, Ill, Dec. 3, 31; m. 57; c. 2. ECONOMICS. A.B, Chicago, 51, M.B.A, 53, Ford Found. & Earhart Found. fels. & Ph.D, 58. Asst. prof. ECON, Hopkins, 58-63; assoc. prof, Amherst Col, 63-65; Lilly faculty fel, Chicago, 65-66, vis. assoc. prof, 66-67; ASSOC. PROF, MASSACHUSETTS, 67- U.S.A, 53-55. Econ. Asn; Statist. Asn; Economet. Soc. Economic theory and applications; statistical methods. Publ: Housing and the federal income tax, Nat. Tax J; Economic factors in specie resumption: the United States, 1865-79, J. Polit. Econ; Estimation of means and totals from finite populations of unknown size, J. Am. Statist. Asn. Address: R.R. 2, Pelham Hill, Amherst, Mass. 01002.

KINDER, DR. ELAINE F(LITNER), Psychol, see 10th ed, Soc. & Behav. Vols.

KINDIG, PROF. FRED(ERICK) E(UGENE), b. York, Pa, Sept. 5, 20; m. 43; c. 4. ECONOMICS. B.S, Pa. State Col, 42; M.S, Pittsburgh, 47, Ph.D.(econ. & indust), 51. Staff supvr, Westinghouse Elec. Co, 50-53; admin. asst. to v.pres, Phoenix Glass Co, 53-54; asst. prof. indust, Pittsburgh, 54-60, assoc. prof. bus. admin, 60-62; PROF. BUS. ADMIN. & COORDINATOR QUANT. METHODS, OHIO STATE, 62- Lectr, eve. sch, Pittsburgh, 51-54. Consult, 54- Statist. Asn; Opers. Res. Soc. Am; Inst. Math. Statist; Soc. Qual. Control; Acad. Arbit; French Opers. Res. Soc. Industrial management; operations research; wage and salary administration. Publ: Workshop manual on statistical methods; Job evaluation and merit rating: an interrelationship, Personnel J, 9/63; Wage and salary administration: a philosophy of management, Personnel Administr, 7-8/67. Address: 2072 Tremont Rd, Columbus, Ohio 43221.

KINDLEBERGER, PROF. CHARLES P(OOR), b. New York, N.Y, Oct. 12, 10; m. 37; c. 4. ECONOMICS. A.B, Pennsylvania, 32; A.M, Columbia, 34, Ph.D, 37; hon. Dr, Paris, 66. Res. economist, Fed. Reserve Bank of New York, 36-39; Bank Int. Settlements, 39-40; bd. governors, Fed. Reserve Syst, 40-42; adv. off. financial & develop. policy & chief div. German & Austrian econ. affairs, U.S. Dept. State, 45-48; PROF. ECON, MASS. INST. TECH, 48- U.S.A, 42-45, Maj. Econ. Asn.(v.pres. elect, 66); Am. Acad. Arts & Sci. Publ: International economics; Europe and the dollar, M.I.T. Press, 66; Europe's postwar growth, Harvard, 67. Address: Dept. of Economics, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

KING, PROF. ALGIN B, b. Latta, S.C, Jan. 19, 26; c. 2. BUSINESS ADMINISTRATION. B.A.(mkt) & B.A.(polit. sci), South Carolina, 47; M.S, N.Y. Univ, 53; Ph.D.(mkt. mgt), Ohio State, 66. Exec. trainee, Sears, Roebuck & Co, 47-48; instr. mkt. & retailing, South Carolina, 48-51; chief econ. anal. br, dist. off, Off. Price Stabilization, S.C, 51-53; asst. prof. mkt, Texas A&M, 54-55; assoc. prof, COL. WILLIAM & MARY, 55-59, PROF. MGT, 59-, ASST. DEAN SCH. BUS. ADMIN, 68-, acting head dept. bus. admin, 60-62, dir. bur. bus. res, 59-63. Teaching asst, Ohio State, 63-64; prof. lectr, George Washington, Ft. Eustis, Va, 65-67. Consult, U.S. Army Transportation Sch, Army Transportation Corps, 65- Mkt. Asn. Management; the marketing of phonograph records in the United States; patterns of retailing and wholesaling in Virginia; area economic analysis studies. Publ: Selected service trades in Virginia, Bur. Bus. Res, Col. William & Mary, 62; co-auth, Hampton waterfront economic study, Admin. Res. Assoc, 67; auth, Advertising: expense or investment, Commonwealth Mag. Va, 3/63. Address: Dept. of Management, College of William & Mary, Williamsburg, Va. 23185.

KING, PROF. ARDEN R(OSS), b. Francis, Utah, Dec. 10, 16; m. 41; c. 1. ANTHROPOLOGY. B.A, Utah, 38; Carnegie fel, Duke, 42-43; Ph.D.(anthrop), California, 47. Instr. ANTHROP, Washington (Seattle), 44, 45-47; TULANE, 47-48, asst. prof, 48-50, assoc. prof, 50-57, PROF, 57- Am. Philos. Soc. res. grant, summer 64. Consult, U.S. Dept. State, Guatemala, 53. Fel. Anthrop. Asn; Ethnol. Soc; Asn. Phys. Anthrop; Soc. Archaeol. American archaeology; anthropological theory; cultural anthropology of Latin America. Publ: Co-auth, The native Americans, Harper, 65; Cattle point, a stratified site in the southern Northwest Coast region, Am. Antiq; Status personality change in northern Negroes in southern United States. Address: Dept. of Anthropology, Tulane University, New Orleans, La. 70118.

KING, PROF. BENJAMIN F(RANCIS), JR, b. Chicago, Ill, Feb. 25, 33; m. 55; c. 2. STATISTICS. A.B, Chicago, 58, M.B.A, 60, Ph.D.(bus), 64. ASST. PROF. STATIST, GRAD. SCH. BUS, CHICAGO, 63- Sloan faculty fel, Mass. Inst. Tech, 66-67. U.S.N.R, 53-, Comdr. Statist. Asn; Economet. Soc; Inst. Math. Statist; Inst. Mgt. Sci. Applied statistics, especially in business and economics; econometrics; market research. Publ: Market and industry factors in stock price behavior, J. Bus, Univ. Chicago, 1/66; Stepwise clustering procedures, J. Am. Statist. Asn, 4/67. Address: University of Chicago Graduate School of Business, Chicago, Ill. 60637.

KING, DR. BERT T, b. New York, N.Y, Mar. 28, 27; m. 50; c. 3. SOCIAL PSYCHOLOGY. B.A, Rutgers, 50; Woodrow Wilson fel, Yale, 50-51, M.S, 52, Ph.D.(psychol), 55. Res. asst. psychol, commun. res. prog, Yale, 50-51, extern. clin. psychol, child study center, 51-53; intern, Vet. Admin. Hosp, West Haven, Conn, 54-55; head selection tech. sect, med. res. lab, U.S. Dept. Navy, Conn, 56-59, dir. training performance div, personnel res. field activity, D.C, 59-61; soc. sci. analyst, res. & ref. serv, U.S. Info. Agency, 61-64; dir. personnel measurement dept, U.S. Navy Personnel Res. Lab, 64-65, ASST. HEAD GROUP PSYCHOL. BR, OFF. NAVAL RES, 65- Lectr, U.S. Dept. Agr. Grad. Sch, 64-; Maryland, 66- U.S.N, 45-46. Psychol. Asn. Social psychology; public opinion research; mass communication; clinical psychology. Publ: Co-auth, Personality and persuasibility, Yale, 59, Vulnerability of human performance in communications, Bur. Naval Personnel, 61 & Comparison of effectiveness of improvised vs. nonimprovised role planning in producing opinion change, Human Rels, 56. Address: Office of Naval Research, Code 452, Washington, D.C. 20360.

KING, PROF. CHARLES E(DWARD), b. Waynesboro, Ga, Oct. 8, 11; m. 38. SOCIOLOGY. B.A, Paine Col, 37; M.A, Michigan, 40; Ph.D.(sociol), Chicago, 51. PROF. SOCIOL, Allen, 41-45; Bennett Col, 45-51; N.C. Col. Durham, 51-67; N.Dak. State, 67-68; N.C. COL. DURHAM, 68- Retained consult, training center delinquency & youth crime, North Carolina, 62-65. Sociol. Asn. Publ: Sociology of small groups; co-auth, Characteristics of flexible and inflexible retired persons, Sociol. & Soc. Res. & Factors in decision-making of North Carolina probation officers, J. Res. Crime & Delinquency. Address: 1008 Chalmers St, Durham, N.C. 27707.

KING, PROF. C(LARENCE) WENDELL, b. Guilford, Conn, Dec. 23, 16; m. 42; c. 3. SOCIOLOGY. A.B, Yale, 40, M.A, 41, Ph.D, 43. Instr, Yale, 43-46, asst. prof. SOCIOL, Rollins Col, 46-49, assoc. prof, 49-52; MASSACHUSETTS, 52-56, PROF, 56- Vis. lectr, Smith Col, 52; vis. prof, Col. of Virgin Islands, 66-67. Sociol. Asn; Soc. Appl. Anthrop. Underdeveloped areas; social change; marriage and the family; Caribbean social structure. Publ: Social movements in the United States, Random, 56; Social and cultural factors in economic development, In: Economic growth and development, Pitman, 67. Address: 132 High St, Amherst, Mass. 01002.

KING, DR. DAVID A(USTEN), b. Minneapolis, Minn, Oct. 6, 32; m. 56; c. 2. FOREST ECONOMICS, ECONOMICS. B.S, Minnesota, 54, M.F, 61, Ph.D. (forestry econ), 65. Forester, U.S. Forest Serv, Ariz, 54 & 56-57, res. forester recreation, Lake States Forest Exp. Sta, 61-62, assoc. economist recreation, 62-66; ASSOC. PROF. WATERSHED MGT. & WILDLAND ECON, ARIZONA, 66- U.S.A, 55-56, 1st Lt. Soc. Am. Foresters; Econ. Asn; Agr. Econ. Asn. Forest product demand analysis. Publ: Characteristics of family campers using the Huron-Manister National Forests, U.S. Forest Serv, 56; Forest land classification for property tax assessment purposes in Wisconsin, Land Econ, 63; Socioeconomic variables related to campsite use, Forest Sci, 68. Address: Dept. of Watershed Management, University of Arizona, Tucson, Ariz. 85721.

KING, DR. DAVID BURNETT, Mod. European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KING, PROF. DAVID JOSEPH, b. Ellsworth, Maine, Mar. 15, 31; m. 52; c. 1. PSYCHOLOGY. B.A, Boston, 51; M.A, Maine, 52; Ph.D. Maryland, 58. Asst. psychol, R.B. Jackson Mem. Lab, 52-53; HumRRO, 53-54; asst. Maryland, 55-58, asst. instr, 57-58; asst. prof. psychol. & statist, American Univ, 58-61, assoc. prof, 61-63; PROF. PSYCHOL. & CHMN. DEPT, Albion Col, 63-68; STATE UNIV. N.Y. COL. OSWEGO, 68- Lectr, Trinity Col. (D.C), 61-62. Res. assoc, Sibley Mem. Hosp, 61- Consult, Feed-back Res. Proj, 60-61. AAAS; Psychol. Asn; Psychonomic Soc. Learning and forgetting of connected meaningful material; use of scaling techniques in analyzing complex thinking processes; human memory. Publ: Retroactive interference in meaningful material, J. Gen. Psychol; Expressing magnitude of retroaction effects, Psychol. Reports; Scaling and factor analytic study of accuracy of recall, Psychol. Record. Address: Dept. of Psychology, State University of New York College at Oswego, Oswego, N.Y. 13126.

KING, PROF. DONALD C, b. Ind, Oct. 8, 30; m. 52; c. 4. INDUSTRIAL PSYCHOLOGY. B.S, Purdue, 52, M.S, 55, Ph.D.(psychol), 57. Instr. psychol, PURDUE, 56-57, asst. prof, 57-60, assoc. prof, 60-65, PROF. PSYCHOL. & ADMIN. SCI, 65-, asst. dean grad. sch, 63-66. Consult, Ford Found, 66-67. U.S.A, 52-54. Psychol. Asn. Personnel, management training and development; leadership and organizational change; attitudes and motivation. Publ: Multiplant factor analysis of employees' attitudes toward their company, J. Appl. Psychol; co-auth, A factor analytic approach to the content and construct validation of a job attitude questionnaire, Personnel Psychol, 65; Relationship between task, choice and resistance to change: a dissonance analysis, Orgn. Behav. & Human Performance, 12/66. Address: Dept. of Psychology, Purdue University, Lafayette, Ind. 47907.

KING, EDMUND R(OSE), b. Hobart, N.Y, Oct. 10, 06; m. 35; c. 4. ECONOMICS, STATISTICS. A.B, Colgate, 28; M.B.A, Harvard, 30. Statistician prod. planning, EASTMAN KODAK CO, 30-39, asst. supt. statist. & planning, 40, CHIEF STATISTICIAN ECON. & STATIST. OFF, 40-, ASST. TREAS, 59- Econ. Asn; Finance Asn; Statist. Asn; Mkt. Asn. Economics of general business; general business statistics. Publ: Analysis and forecasts of company sales, Am. Statistician; Translating economic trends into realistic corporate plans, In: The marketing job, Am. Mgt. Asn, 61. Address: Eastman Kodak Company, 343 State St, Rochester, N.Y. 14650.

KING, PROF. F.J, b. Cleburne, Tex, Feb. 4, 27; m. 51; c. 1. EDUCATIONAL PSYCHOLOGY. B.S, N.Tex. State Col, 49, M.S, 50; Ph.D.(ed. psychol), Texas, 60. Teacher, high sch, Tex, 52-54, sch. psychologist & teacher, pub. schs, 54-57; res. assoc. ed. psychol, Texas, 57-60; ED. RES. & TESTING, FLA. STATE, 60-61, asst. prof, 61-64, assoc. prof, 64-67, PROF, 67-, RES. ASSOC, INST. HUMAN LEARNING, 64- AAAS; Psychol. Asn. Mental measurement; behavioral disturbances in children; biochemical and behavioral concomitants of mental retardation; genetic and biochemical factors in personality development. Publ: Co-auth, Phenylketonuria: five affected members in one sibship, J. Heredity, Dimensions of talented behavior, Ed. & Psychol. Measurement & Some intellectual correlates of biochemical variability, Behav. Sci. Address: 403 Education Bldg, Florida State University, Tallahassee, Fla. 32306.

KING, DR. FRANCIS P(AUL), b. Medford, Ore, May 5, 22. POLITICAL SCIENCE. B.S, Oregon, 43; A.M, Stanford, 48, Ph.D.(polit. sci), 53; Fulbright res. award, Paris, 51. Res. assoc, Hoover Library War, Revolution & Peace, 49-50; TEACHERS INS. & ANNUITY ASN, 53-55, RES. OFFICER, 55-; COL. RETIREMENT EQUITIES FUND, 55- Consult, Gen. Elec. Co, 53. U.S.A.A.F, 43-46, Lt. Polit. Sci. Asn; Econ. Asn. Pension and welfare studies; social legislation; foreign benefit systems. Publ: Co-auth, Retirement and insurance plans in American colleges; co-auth, The outer fringe, Univ. Wisconsin, 65. Address: College Retirement Equities Fund, 730 Third Ave, New York, N.Y. 10017.

KING, PROF. FRANCIS W(ALTER), b. Washington, D.C, Dec. 13, 18; m. 43; c. 2. PSYCHOLOGY. B.S, Bowdoin Col, 40; A.M, Boston, 41; Ph.D.(clin. psychol), Harvard, 52. Psychologist & head soc. serv. dept, State Farm, State Dept. Correction, Mass, 41-42; instr. soc. sci, Boston, 46-48; PSYCHOL, DARTMOUTH COL, 49-52, asst. prof, 52-57, assoc. prof, 57-60, PROF, 60-, MED. PSYCHOL, DARTMOUTH MED. SCH, 60-, CLIN. PSYCHOLOGIST, COL. HEALTH SERV, 60-, assoc. counseling, personnel bur, 49-53, clin. psychologist, off. student counseling, 52-60. Consult, Vet. Admin. Hosp, White River Junction, Vt, 63-; admin. dir. ment. health sect, col. health serv, Dartmouth Col, 67- U.S.A, 42-46, Capt. Psychol. Asn; Soc. Proj. Tech; Group Psychother. Asn; Col. Health Asn. Psychotherapy; psychodiagnosis; personality development; diagnosis of brain damage. Publ: The use of drawings of the human figure as an adjunct in psychotherapy, J. Clin. Psychol, 10: 65-69; The projective assessment of the female's sexual identification with special reference to the Blacky Pictures, J. Proj. Tech, 28: 293-299; The MMPI F Scale as a predictor of lack of adaptation to college, J. Am. Col. Health Asn, 15: 261-269. Address: Dick Hall's House, Dartmouth College, Hanover, N.H. 03755.

KING, DR. FRANK H(ENRY) H(AVILAND), b. London, Eng, Jan. 11, 26; m. 54; c. 3. ECONOMICS, POLITICAL SCIENCE. A.B. & A.M, Stanford, 49; Rhodes scholar. & B.A, Oxford, 51, M.A, 55, Medley scholar. & Center for East Asian Studies grant, 58-59, D.Phil, 59. Instr. econ, N.Mex. Mil. Inst, 51-52; lectr, Hong Kong, 52-56, asst. ed, J. Oriental Studies, 53-56; economist, E. Asian Res. Center, Harvard, 56-58, 62; dept. opers-far east, Int. Bank Reconstruct. & Develop, 59-62, Econ. Develop. Inst, 62-63; prof. econ, Kansas, 63-68; PROF. ECON. HIST. & DIR. CENTRE ASIAN STUDIES, UNIV. HONG KONG, JUNE, 68- Lectr, Oxford, 59; Merton Col, 66-67; American Univ, summer, 61; Found. Econ. Ed. & First Nat. City Bank fel, 66; Soc. Sci. Res. Coun. grant, 66-67. Consult, Econ. Cmn. for Asia & Far East, UN, 55; for. areas studies div, American Univ, 58, 62. Econ. Asn; Asn. Asian Studies; Royal Econ. Soc; Econ. Hist. Soc, Brit. Economic history of modern China, especially monetary history; political and economic problems of development, especially China and Southeast Asia; international finance. Publ: New Malayan nation: a study of communalism and nationalism, Inst. Pac. Rels, 57; auth, Money and monetary policy in China, 1845-95 & co-auth, A research guide to China-coast newspapers, 1822-1911, Harvard, 65. Address: Centre of Asian Studies, University of Hong Kong, Hong Kong.

KING, DR. FRANK P(ICKETT), b. Preston, Ga, Feb. 15, 10; m. 37; c. 2. AGRICULTURAL ECONOMICS. B.S, Georgia, 32, Am. Cyanamid Co. fel, 33-34, M.S, 35; Gen. Ed. Bd. scholar, Cornell, 45-46, Ph.D.(agr. econ), 48. Farm mgt. field rep, Metropolitan Life Ins. Co, 35-38; from assoc. prof. to prof. agr. econ, GEORGIA, 38-50, res. dir. COASTAL PLAIN AGR. EXP. STA, 50-55, DIR, 55- Agr. Econ. Asn. Agricultural credit and farm management, especially as related to southern agriculture. Publ: Farm records and budgets, Univ. Georgia, 48; co-auth, Efficient farm management, 48 & auth, Better farm management, 56, Turner Smith. Address: Coastal Plain Agricultural Experiment Station, Tifton, Ga. 31794.

KING, PROF. FREDERICK ALEXANDER, Neuropsychol, Neurophysiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KING, REV. GEORGE ALEXANDER, S.J, Polit. Sci, Int. Rels, see 10th ed, Soc. & Behav. Vols, deceased 65.

KING, PROF. GORDON A(BBOTT), b. Ayer, Mass, June 26, 24; m. 54; c. 2. AGRICULTURAL ECONOMICS. B.S, Connecticut, 46, M.S, 48; Ph.D, Harvard, 54. Res. asst, Connecticut, 46-48; economist, food & agr. orgn, UN, 48-51; res. asst. agr. econ, Harvard, 51-54; anal. statistician, agr. econ. div, U.S. Dept. Agr, 54-57; asst. & assoc. prof. AGR. ECON, CALIFORNIA, DAVIS, 57-65, PROF, 65- Soc. Sci. Res. Coun. grant, 56; U.S. Dept. Agr. res. grant, Mass. Inst. Tech, 64-65. Cert. Merit, U.S. Dept. Agr, 56. Agr. Econ. Asn.(award merit, 64); Economet. Soc. Econometric models for agricultural products; economies of scale studies and efficiency in marketing; location theory and spatial equilibrium analysis. Publ: Co-auth, Measurement of substitution in demand from time-series data: a synthesis of three ap-

proaches; co-auth, Regional location of cattle feeding—a spatial equilibrium analysis, 63 & Size and location factors affecting California's beef slaughtering plants, 64, Hilgardia. Address: Dept. of Agricultural Economics, University of California, Davis, Calif. 95616.

KING, PROF. GUNDAR J(ULIAN), b. Riga, Latvia, Apr. 19, 26; nat, U.S; m. 54; c. 2. BUSINESS ECONOMICS. B.B.A, Oregon, 56; M.B.A, Stanford, 58, Ph.D.(bus), 63. Asst. prof. bus. & econ, PACIFIC LUTHERAN, 60-64, assoc. prof, 64-66, PROF. BUS. & DIR. SCH. BUS, 66- Consult, Boeing Co, Wash, 64- Mem. Gov. Coun. Reorg. Wash. State Govt, 65-66. Latvian Student World Asn. award, 66. U.S.A, 50-60, M/Sgt. Mgt. Asn; Mkt. Asn. Purchasing and materials management; industrial marketing; Latvian area studies. Publ: Economic policies in occupied Latvia, 65 & ed, Teaching trends in business, 66, Pacific Lutheran Univ. Address: School of Business, Pacific Lutheran University, Tacoma, Wash. 98447.

KING, DR. HAITUNG, b. Nanchang, China, Oct. 23, 16. SOCIOLOGY, EPIDEMIOLOGY. B.A, Cheeloo Univ, 35; M.A, Wisconsin, 48; Ph.D, La. State, 50. Asst, La. State, 48-50; assoc. prof, Kans. Wesleyan, 50-56; assoc. prof, Ill. Wesleyan, 56-59; res. fel, sch. pub. health, Hopkins, 59-61; from soc. sci. analyst to SOCIOLOGIST, NAT. CANCER INST, 61- Clin. assoc. prof. community med. & int. health, sch. med, Georgetown, 66- Counsr. & adv, D.C. Interagency Smoking Withdrawal Cmt, 67- Sociol. Asn; Publ. Health Asn; Pop. Asn; Soc. Study Social Probs; Asn. Teachers Prev. Med. Social organization; population; mortality among clergymen and physicians. Publ: Co-auth, Cancer rates and risks, U.S. Pub. Health, Serv, 64, Selected epidemiological aspects of cancer of the prostate, J. Chronic Diseases, 63 & Mortality among Lutheran clergymen, Milbank Mem. Fund Quart, 68. Address: National Cancer Institute, Bethesda, Md. 20014.

KING, PROF. HAROLD JOSEPH, Econ, Statist, see 10th ed, Soc. & Behav. Vols, deceased 66.

KING, PROF. H(ENRY) E(UGENE), Psychol, see 11th ed, Phys. & Biol. Vols.

KING, HUGH P, b. Flushing, N.Y, Aug. 15, 23; m. 58; c. 1. ECONOMICS, STATISTICS. B.S, N.Y. Univ, 49, M.B.A, 50. Statistician mkt. res, Interbur. Ins. Adv. Group, 53-54; economist, Chamber Commerce, U.S, 55-57; asst, Health Ins. Asn. Am, 57-59; economist corp. planning, Repub. Aviation Corp, 59-61; Continental Copper & Steel Industs, 61-65; DIR. RES. REGIONAL ECON, ECON. DEVELOP. COUN. NORTHEAST. PA, 65- Instr, Am. Inst. Banking, 57-59; pres, Sci. Investors, Inc, 60-; prof. econ, Pa. State, 68- Mkt. consult, Int. Bus. Mach. Corp, 63-64. Fel. Inst. Freedom & Competitive Enterprise, Calif, 54; mem, Found. Study Cycles. U.S.A.A.F, 42-49. Statist. Asn; Asn. Bus. Econ. Savings and wealth during 1939-1949; business cycle analysis; regional economics relative to Northeastern Pennsylvania. Publ: Cycles in financial data, J. Cycle Res; World cycles, Colliers New Encyclop; Installment selling, Encyclop. Britannica. Address: Economic Development Council of Northeastern Pennsylvania, First National Bank Bldg, Wilkes Barre, Pa. 18701.

KING, DR. JAMES ELMER, b. Baker, Ore, Nov. 16, 37; m. 65; c. 1. PSYCHOLOGY. B.A, Arizona, 59; M.S, Wisconsin, 61, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, ARIZONA, 63-67, ASSOC. PROF, 67- Psychol. Asn; Animal Behav. Soc. Comparative learning and primatology. Address: Dept. of Psychology, University of Arizona, Tucson, Ariz. 85721.

KING, JAMES E(RVIN), b. Sumter, S.C, Feb. 24, 14; m. 41; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B, Harvard, 36, fel, 40-42, M.A, 42; Duke, 36-37; B.A, Oxford, 39, M.A, 44. Specialist on Canada, U.S. Dept. State, 46-47; from assoc. staff secy. to dep. chief staff, Off. Mil. Governor, Germany, 47-49; exec. secy, Off. U.S. High Cmnr, Germany, 49-52; res. analyst, Opers. Res. Off, Hopkins, 52-57; res. assoc. int. rels, Wash. Center For. Policy Res, 57-60; assoc. dir. res, INST. DEFENSE ANAL, 60-63, SR. RES. ASSOC, 63- Consult, Wash. Center For. Policy Res, 60- Commendatore del Ordo al Merito della Repubblica Italiana, 63. U.S.A, 42-45, Capt. Inst. Strategic Studies; Coun. For. Rels. National defense policy and strategy; United States foreign policy; European politics; theory of international relations; nuclear strategy in official doctrine and in theory; international politics. Publ: Towards stability in Central Europe, In: Changing East-West relations and the unity of the West, Johns Hopkins, 64; Collective defense: the military commitment, In: Alliance policy in the Cold War; Arms control and United States security, In: Arms control: issues for the public. Address: 10700 Weymouth St, Garrett Park, Md. 20766.

KING, DR. JAMES W, b. Washington, D.C, Feb. 17, 28; m. 59; c. 4. GEOGRAPHY. B.A, Utah, 51; M.A, Northwestern, 58, Ph.D.(geog), 64. Instr. GEOG, Chicago Teachers Col, summer 62; Oklahoma, 62-64; ASST. PROF, UTAH, 64- U.S.A, 46-47. African Studies Asn; Asn. Am. Geog; Nat. Coun. Geog. Ed. Geography of Africa and the Middle East. Publ: Nile transport in Uganda, E.African Geog. Rev, 66; The development of Nile transport in Uganda, Uganda J, 66; Africa, In: The teaching of geography, Blaisdell, (in press). Address: Dept. of Geography, University of Utah, Salt Lake City, Utah 84112.

KING, DR. JEROME BABCOCK, b. New York, N.Y, May 1, 27; m. 53; c. 4. POLITICAL SCIENCE. B.S, Dartmouth Col, 49; M.A, Stanford, 54, Alfred Newhouse & Fulbright fels. & Ph.D.(polit. sci), 58. Instr. govt, Arkansas, 58-59; contemporary civilization, Middlebury Col, 59-61; lectr. polit. sci, Williams Col, 61-63, asst. prof, 63-67; ASSOC. PROF. GOVT, MASSACHUSETTS, AMHERST, 67- Vis. lectr, Vermont, 61; Ford summer pub. affairs res. grant, 62; Carnegie fel, 65-66. U.S.N, 45-46. French law and politics; political philosophy. Publ: Co-auth, Politics and civil liberties in Europé, Van Nostrand, 67; auth, Ministerial cabinets of the Fourth Republic, West. Polit. Quart, 6/60; Constitutionalism and the French judiciary, Polit. Sci. Quart, 3/65. Address: Dept. of Government, University of Massachusetts, Amherst, Mass. 01002.

KING, PROF. KENT H(AROLD), b. Coin, Iowa, Mar. 31, 13; m. 48; c. 4. COUNSELING PSYCHOLOGY. B.A, Iowa, 38, M.A, 47; Colorado, 48; Iowa State, 49; Ed.D, Colo. State Col, 56. Teacher, pub. schs, Iowa, 38-49, supt. & dir. guid, pub. schs, 49-54; assoc. prof. ed. & psychol, Nebr. State Col. (Peru), 54-56; asst. prof. prinl. ed. psychol, MANKATO STATE COL, 56-59, assoc. prof. psychol, ed, counseling, & guid, 59-63, PROF. PSYCHOL. & COUNSELING PSYCHOL, 63- Summers, vis. prof, N.Dak. State, 59-62. U.S.N.R, 42-45. Psychol. Asn; Personnel & Guid. Asn; Nat. Soc. Study Ed. Improvement in quality of classroom teaching and group and individual counseling; mental health. Publ: Problems in human relations test and their use in a democratic teaching situation; High school graduates and their reaction to their high school education; Case for the small high schools. Address: 103 Thayer Ave, Mankato, Minn. 56001.

KING, PROF. LESLIE J, b, Christchurch, N.Z, Nov. 10, 34; m. 60. GEOGRAPHY. B.A, New Zealand, 55, Fulbright scholar. & M.A, 57; Ph.D.(geog), Iowa, 60. Lectr. GEOG, New Zealand, 60-62; asst. prof, McGill, 62-64; assoc. prof, OHIO STATE, 64-67, PROF, 67- Mem. exec. cmt, Nat. Sci. Found. Seminar Series Geog, 65- Asn. Am. Geog; Statist. Asn; Regional Sci. Asn. Urban systems; quantitative analysis in spatial research. Publ: Co-auth, Traffic in a New Zealand city, Whitcombe, 65; auth, Discriminatory analysis of urban growth patterns, Ann. Asn. Am. Geog, 67; Statistical analysis in geography, Prentice-Hall, 68. Address: Dept. of Geography, Ohio State University, Columbus, Ohio 43210.

KING, DR. LUCY JANE, Psychiat, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KING, DR. MARY ELIZABETH, b. Williamsport, Pa, Sept. 7, 29. ANTHROPOLOGY, A.B, Cornell, 51; Am. Philos. Soc. summer grant, Peru, 57; M.A, Columbia, 58; Ph.D.(anthrop), Arizona, 65. Asst. to state archaeologist, Pa. State Mus, 51-52; mus. asst, Textile Mus, D.C, 53-57, curator west. hemisphere textiles, 57-67; ASST. PROF. ANTHROP, HOWARD, 67- Res. grant, Howard, 67; Am. Philos. Soc. summer res. grant, Mex, 67; res. assoc, Textile Mus, D.C, 67- Anthrop. Asn; Soc. Am. Archaeol; Latin Am. Studies. Asn. New World archaeology and ethnology, especially the material culture of the southwestern United States, Mexico and Peru; textiles and basketry. Publ: A new type of Peruvian Ikat, Textile Mus. Workshop Notes Papers, 58; Ancient Peruvian textiles from the collection of the Textile Museum, Washington, D.C, Mus. Primitive Art, 65; Appendix C. Prehistoric Textiles from the Gila Bend area, In: Salvage archaeology in Painted Rocks Reservoir, Western Arizona, Anthrop. Papers, Univ. Arizona, 65. Address: 328 Sixth St. S.E, Washington, D.C. 20003.

KING, PROF. MORRIS A(UDREY), b. Chattanooga, Tenn, Mar. 18, 16; m. 44; c. 3. EDUCATIONAL PSYCHOLOGY. B.S, Georgia, 39; M.A, Columbia, 46, Ed.D, 52. Asst. prof. phys. ed, Furman, 46-47; assoc. prof. ed, Ga. Teachers Col, 51-52; prof. ed. & psychol. & acad. dean, Lander Col, 52-62; prof. ED, Furman, 62-68; HEAD DEPT, THE CITADEL, 68- U.S.N.R, 41-45, Lt. Comdr. Methods of securing capable public school teachers. Address: Dept. of Education, The Citadel, Charleston, S.C. 29409.

KING, PROF. MORTON B(RANDON), b. Shelbyville, Tenn, Mar. 24, 13. SOCIOLOGY. A.B, Vanderbilt, 34, A.M, 36; Rosenwald fel, 38-39; Ph.D. (sociol), Wisconsin, 40. Asst. prof. sociol, Mississippi, 39-41; assoc. prof, Miss. State Col, 41-43; prof. sociol. & chmn. dept. sociol. & anthrop, Mississippi, 46-56; vis. lectr. SOCIOL, Northwestern, 57-58; PROF, SOUTHERN METHODIST, 58-, vis. prof, 56-57, chmn. dept, 60-64. U.S.A, 43-46, 2nd Lt. Fel. AAAS; fel. Sociol. Asn; Soc. Sci. Study Relig. General theory and method; sociology of religion; power relations. Address: Dept. of Sociology. Southern Methodist University, Dallas, Tex. 75222.

KING, PETER S(AVOIS), Mkt, see 10th ed, Soc. & Behav. Vols.

KING, PROF. RICHARD A(DAMS), b. Worcester, Mass, July 2, 22; m. 44; c. 4. AGRICULTURAL ECONOMICS. B.S, Connecticut, 46; M.S, California, 47; Littauer fel, Harvard, 47-48, M.P.A, 48, Ph.D.(econ), 51. Field asst. farm mgt, Connecticut, 43-44, statistician, Storrs Exp. Sta, 44-46, asst. prof. agr. econ, 48-50; asst, Giannini Found, California, 46-47; assoc. prof. ECON, N.C. STATE, 51-56, M.G. MANN PROF, 57- Fel. polit. econ, Chicago, 55-56; vis. lectr, grad. sch. bus. admin, Virginia, 61-63; vis. prof, faculty soc. sci, Agrarian Univ, Peru & agr. econ. coordinator, N.C. Agr. Mission to Peru, 64-65. Chmn. bd. dir, Franklinton Center, N.C, 65- U.S.A.A.F, 43. Econ. Asn; Economet. Soc; Agr. Econ. Asn. Econometrics; efficiency in marketing; production economics. Publ: Co-auth, Agricultural development in Peru, Praeger, 68 & Selection of optimal farm enterprises, N.C. Agr. Exp. Sta. J; auth, Some applications of activity analysis in agricultural economics, J. Farm Econ. Address: 2108 Buckingham Rd, Raleigh, N.C. 27607.

KING, DR. RICHARD A(USTIN), b. Philadelphia, Pa, Mar. 26, 29; m. 56; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Cincinnati, 54, M.A, 55; James B. Duke fel, Duke, 58, Ph.D, 59. Instr. PSYCHOL, NORTH CAROLINA, CHAPEL HILL, 58-59, asst. prof, 59-65, ASSOC. PROF, 65- Spec. fel. dept. physiol. & biophysics, Washington (Seattle), 63-65. U.S.A, 51-53, Res. 53-56, Sgt. Psychol. Asn; Psychonomic Soc. Learning and motivation; physiological psychology; biology of memory; neuro-anatomy. Publ: Co-auth, Introduction to psychology, 3rd ed, McGraw, 66; auth, Consolidation of the neural trace in memory: investigation with one-trial avoidance conditioning and ECS, J. Comp. & Physiol. Psychol, 65; co-auth, Cortical projections from the dorsal lateral geniculate of cats, J. Comp. Neurol, 67. Address: Dept. of Psychology, University of North Carolina, Chapel Hill, N.C. 27514.

KING, PROF. ROBERT LEROY, b. Decatur, Ga, Jan. 22, 31; m. 56; c. 3. MARKETING. B.B.A, Georgia, 52; M.A, Mich. State, 53, Ford Found. fel, 56-57, Ph.D.(bus. admin), 60. Asst. prof. MKT, South Carolina, 57-61, assoc. prof, 61-65; PROF, VA. POLYTECH, 65-, ASSOC. DEAN GRAD. SCH, 67- Found. Econ. Ed. fel. bus, 63; Citizens & South. Nat. Bank chair bus. admin, 63-65; Ford Found. res. fel, 64-65. Consult. advert. agencies & media, mfg. & retailing firms & polit. party orgn. U.S.A, 53-55, Res, 55-, Capt. AAAS; Mkt. Asn; Acad. Advert; Sociol. Asn; Acad. Polit. & Soc. Sci. Consumer and voter behavior; mass media audience and communication measurement; market share analysis. Publ: Co-auth, Science in marketing, Wiley, 65; auth, An annotated index to the proceedings of the American Marketing Association conferences, Am. Mkt. Asn, 66; Some implications of food chains' brand selection practices, South. J. Bus, 68. Address: College of Business, Virginia Polytechnic Institute, Blacksburg, Va. 24061.

KING, DR. SAMUEL HOWELL, b. Fair Play, S.C, Mar. 24, 24. PSYCHOLOGY. B.A, Lincoln Mem. Univ, 46; M.A, New Mexico, 47; Ph.D, Western Reserve, 54. Dean of men, S.C. Sch. Adults, 47-48; res. psychologist, personnel res. br, Adj. Gen. Off, U.S. DEPT. ARMY, 48-55, chief performance eval. & rating res. unit, 55-57, combat systs. res. lab, 57-61, PROG. COORDINATOR, HUMAN FACTORS RES. DIV, OFF. CHIEF RES. & DEVELOP, 61- Mem. bioastronaut. cmt, Nat. Res. Coun, 59-61. U.S.A, 43-45. Psychol. Asn; Psychomet. Soc; Polar Soc. Application of objective psychological techniques to selection, classification, utilization, and evaluation of personnel. Publ: Marginal man and military service, U.S. Dept. Army, 65; Selection and classification research in the Army, Army Res. & Develop. Mag, 2/65; Personality characteristics of hard and easy raters. Address: 1880 Columbia Rd. N.W, Washington, D.C. 20009.

KING, DR. STANLEY H, b. Olivet, Mich, Aug. 3, 21; m. 43; c. 4. CLINICAL PSYCHOLOGY, SOCIAL SCIENCE. A.B, Tufts, 42; S.T.B, Harvard, 44, fel, 49-52, M.A, 51, Ph.D.(clin. psychol), 53. Teaching fel. soc. rel, Harvard, 53-54; res. assoc. pub. health practice, sch. pub. health, Pittsburgh, 54-57, asst. prof, 57-58; LECTR. SOC. RELS, HARVARD, 58-, DIR. RES, UNIV. HEALTH SERV, 64-, assoc. dir, 58-64. Consult. psychologist, Northfield & Mt. Hermon Schs, 63- U.S.N, 44-46. Psychol. Asn; fel. Sociol. Asn; Col. Health Asn. Personality development in adolescence; relation of the behavioral sciences to medicine. Publ: Co-auth, Mastery of stress, Harvard, 57, Remotivating the mental patient, 57 & auth, Perceptions of illness and medical practice, 62, Russell Sage. Address: University Health Services, Harvard University, 75 Mt. Auburn St, Cambridge, Mass. 02138.

KING, DR. THOMAS CREIGHTON, Med, Surg, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KING, DR. WILLFORD I(SBELL), Econ, Statist, see 10th ed, Soc. & Behav. Vols.

KING, DR. WILLIAM L, b. Newark, N.J, Apr. 11, 39; m. 61; c. 2. PSYCHOLOGY. B.A, Rutgers, 60; M.A, Colorado, 64, Ph.D.(psychol), 65. ASST. PROF. PSYCHOL, Dalhousie, 64-67; CITY COL. NEW YORK, 67- Res. grants-in-aid, Nat. Res. Coun. Can, 64-67 & Defence Res. Bd. Can, 65-67. Psychol. Asn. Visual perception; cognitive development in children and adults. Publ: Co-auth, Moon illusion and Emmert's law, Science, 62; auth, Learning and utilization on conjunctive and disjunctive classification rules: a developmental study, J. Exp. Child Psychol, 11/66; Rule learning and transfer as a function of stimulus structure, Child Develop, 3/68. Address: Dept. of Psychology, City College, City University of New York, New York, N.Y. 10013.

KINGDON, DR. JOHN WELLS, b. Wisconsin Rapids, Wis, Oct. 28, 40; m. 65; c. 1. POLITICAL SCIENCE. B.A, Oberlin Col, 62; M.A, Wisconsin, 63, Ph.D, 65. ASST. PROF. POLIT. SCI, MICHIGAN, 65- Polit. Sci. Asn. Legislative behavior. Publ: Candidates for office, Random, 68. Address: Dept. of Political Science, University of Michigan, Ann Arbor, Mich. 48104.

KINGET, PROF. MARIAN G(ODELIEVE), b. Steenkerke, Belgium, June 2, 10; nat. PSYCHOLOGY. M.A, Brussels, Belgium, 40; M.A, Univ. Louvain, 43, Ph.D.(psychol), 48; Columbia, 49-50; Chicago, 50-52. Asst. prof. PSYCHOL, MICH. STATE, 52-55, assoc. prof, 55-67, PROF, 67- AAAS; Psychol. Asn; Acad. Psychother. Clinical and humanistic psychology. Publ: The drawing completion test; Psychotherapie et relations humaines; co-auth, Psychotherapie en Menselijke Verhoudingen. Address: Dept. of Psychology, Michigan State University, East Lansing, Mich. 48823.

KINGKADE, PROF. W(ILLIAM) B(RUCE), b. Ames, Iowa, Aug. 24, 23; m. 48; c. 1. ECONOMICS. B.A, Iowa, 48; M.A, Minnesota, 52; scholar, Mass. Inst. Tech, 52-53. Indust. rel. asst, Sylvania Elec. Prods, Inc, 53-54; instr. bus. tech, Long Island Agr. & Tech. Inst, State Univ. N.Y, 54-58; asst. prof. MGT, St. John's (N.Y), 58-66; Rider Col, 66-67; ASSOC. PROF, MIDDLESEX COUNTY COL, 67- U.S.A.A.F, 42-46. Econ. Asn; Indust. Rel. Res. Asn. Industrial relations; labor mobility; personnel administration. Address: 48 Iselin Terrace, Larchmont, N.Y. 10538.

KINGMAN, PROF. MARGARET MACE, b. Richmond, Mass, Apr. 7, 12; m. 46; c. 1. GEOGRAPHY. A.B, Radcliffe Col, 34, A.M, 35; Harvard, 37-38; Ohio State, 41-42; American Univ, 47-48; Clark, 66-67. Instr. cartog, Smith Col, 35-41; geogr, Off. Strategic Serv, D.C, 42-43, chief cartographer, Joint Intel. Study Pub. Bd, 43-45, pub. chief, 45-48; Intel. officer, Cent. Intel. Agency, 48-66; ASSOC. PROF. GEOG, STATE UNIV. N.Y. COL. NEW PALTZ, 67- Consult, Virginia, 48. Mem, President's Water Resources Policy Cmn, 50-51. AAAS; Asn. Am. Geog; Cong. Surv. & Mapping; Soc. Photogram. Military geography; cartography; Berkshire County, Massachusetts cultural and economic geography, 1760-1830; photo-interpretation; resource management; regional geography of Europe; urban geography. Address: Division of Area Studies and Geography, State University College, New Paltz, N.Y. 12561.

KINGSBURY, PROF. JOSEPH B(USH), b. Osage, Iowa, June 23, 90. PUBLIC ADMINISTRATION. A.B, George Washington, 15; St. Andrews, 19; Ph.D, Chicago, 23. Asst. prof. polit. sci, Washington (St. Louis), 21-25; assoc. prof. govt, St. Johns Col.(Md), 28-36; mem. staff, Griffenhagen & Assocs, 36-37; vis. prof. pub. admin, American Univ, 38;mem. staff, U.S.R.R. Retirement Bd. & U.S. Civil Serv. Cmn, 39-43; mem, Am. Financial Mission, Iran, 44; mem. staff, off. indust. rels, U.S. Dept. Navy, D.C, 45-46; prof. GOVT, INDIANA, 46-60, EMER. PROF, 60- Lectr, UN Inst. Pub. Admin, Turkey, 52-53; prof, Thailand Inst. Pub. Admin, 55-57, adv, 60-62; Univ. Gadjah Mada, Jogjakarta, 60-62. Address: Dept. of Government, Indiana University, Bloomington, Ind. 47405.

KINGSBURY, PROF. ROBERT C(ARRICK), b. Lakewood, Ohio, May 3, 24; m. 48; c. 4. GEOGRAPHY. A.B, Miami (Fla), 49; M.A, Kansas, 51; Banaras Univ, India, 52-53; Indiana, 57-59. Instr. geog, Miami (Fla), 49-50, 51-52; teacher, pub. schs, Fla, 53-54; res. assoc, Am. Geog. Soc, N.Y, 54-57; lect. geog. & cartographer, INDIANA, 57-66, ASSOC. PROF. GEOG, 66- Cartog. ed, Weather Res. Bull, 57-60; Twentieth Century Fund, 57-61; cartog. ed. & res. assoc, Off. Naval Res, 58-61. Mem. maps & aerial photographs cmt, High Sch. Geog. Proj, 65-; dir, Nat. Ed. Defense Act Geog. Inst, 66. U.S.A.A.F, 41-45; U.S.A.R, 49-53, Sgt. Am. Geog. Soc; Asn. Am. Geog; Cong. Surv. & Mapping; Nat. Coun. Geog. Ed; Soc. Photogram. Geography of South Asia, especially India, Pakistan and Ceylon; economic geography of the Lesser Antilles; thematic cartography; aerial photography and other remote sensing. Publ: Geography of Trinidad and Tobago; co-auth, Pakistan a compendium & An atlas of Latin American Affairs, Praeger, 65. Address: Dept. of Geography, Indiana University, Bloomington, Ind. 47401.

KINGSBURY, SHERMAN, b. Idaho Falls, Idaho, July 10, 24; m. 51; c. 5. MATHEMATICS. B.A, Pomona Col, 43; M.S, Wisconsin, 48. Instr. math, Pomona Col, 43-44; mem. staff, Opers. Eval. Group, U.S. Dept. Navy, 48-50; opers. res. group, ARTHUR D. LITTLE, INC, 51-58, TECH. STAFF ASSOC, RES. & DEVELOP. DIV, 58- Fel, Inst. Appl. Behav. Sci, Nat. Training Labs, 68- U.S.N.R, 44-46. Management of research and development; behavioral sciences applied to technical organizations. Publ: Co-auth, Uncertainty in research, management, and new product development, Reinhold, 67. Address: Arthur D. Little, Inc, Acorn Park, Cambridge, Mass. 02140.

KINGSLEY, E(DWARD) H, Math, Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

KINGSLEY, DR. J(OHN) DONALD, b. Cambridge, N.Y, Mar. 25, 08; m. 43; c. 3. POLITICAL SCIENCE, ECONOMICS. Ph.D, Syracuse, 33; LL.D, Louisville, 51. From asst. prof. to assoc. prof. Am. govt, Antioch Col, 33-35, prof. polit. econ, 35-41; asst. regional dir, War Manpower Cmn, 42-43, dep. exec. dir, 44-45; dep. dir, Off. War Mobilization & Reconversion, 45-46; prog. coordinator, White House Off, 46-47; exec. secy, President's Sci. Res. Bd, 47; dep. adminstr, Fed. Security Agency, 48-49; dir. gen. Int. Refugee Orgn, 49-51; agent. gen, Korean Reconstruct. Agency, UN, 51-53; exec. dir. Welfare & Health Coun, New York 53-59; resident rep. W.Africa, FORD FOUND, 59-63, DIR. MID. EAST & AFRICA, 63- Soc. Sci. Res. Coun. fel, London, 36-38; adminstr, Allied Reparations Fund, Paris, 49-57. Am. Soc. Pub. Admin; Royal Inst. Pub. Admin. Foreign policy; international administration. Publ: Representative bureaucracy; co-auth, Public personnel administration. Address: 611 Lake Ave, Greenwich, Conn. 06830.

KINGSTON, PROF. ALBERT J(AMES), JR, b. Brooklyn, N.Y, Nov. 25, 17; m. 48; c. 4. EDUCATIONAL PSYCHOLOGY. B.S, State Univ. N.Y, 39; M.S, Cornell, 48, Ph.D.(ed.psychol), 50. Assoc. prof. psychol. & dir. guid, Agr. & Mech. Col. Tex, 50-56; remedial specialist, pub. schs, Ga, 56-58; assoc. prof. ED. PSYCHOL, GEORGIA, 58-63, PROF, 63- Remedial ed. adv. U.S. Opers. Mission, Ethiopia, 55-56; consult, Eric-Crier proj, Indiana, 66- Pres. Nat. Reading Conf, 66-67. U.S.A.A.F, 43-46. Psychol. Asn; Ed. Res. Asn. Reading disabilities; psychological testing. Publ: Co-auth, Educational psychology, Appleton, 64 & Psychology of childhood, Scribner, 67. Address: Dept. of Psychology, University of Georgia, Athens, Ga. 30601.

KINGSTON, DR. CHARLES R(ICHARD), Criminalistics, Statist, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KINKADE, DR. M(ARVIN) DALE, Anthrop. Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

KINNARD, PROF. WILLIAM N(OBLE), JR, b. Philadelphia, Pa, Sept. 12, 26; m. 49; c. 2. ECONOMICS. B.A, Swarthmore Col, 47; univ. scholar & M.B.A, Pennsylvania, 49, Harrison fel. & Ph.D.(finance), 56. Instr. econ, Wesleyan, 50-54; dir. urban redevelop, Middletown, Conn, 54-55; asst. prof. FINANCE & REAL ESTATE, CONNECTICUT, 55-58, assoc. prof, 58-61, PROF, 61-, DIR. CENTER REAL ESTATE & URBAN ECON. STUDIES, 65-, head bus. dept, 57-63, dir. inst. urban res, 63-65, head finance dept, 63-67. Asst. prof, Florida, 51. Summers, Nat. Sci. Found-Regional Sci. Asn. fel, 62, vis. lectr, Brown, 63, vis. prof, California, Los Angeles, 64. Ed. consult, Soc. Real Estate Appraisers, 65. Adv. Ed, Encyclop. Americana, 59- Econ.Asn; Finance Asn; Real Estate & Urban Econ. Asn.(pres. 68); Soc. Appraisers. Real estate finance; urban community development and redevelopment; urban land values. Publ: A guide to appraising apartments, Soc. Real Estate Appraisers, 2nd ed. 66; Industrial real estate, Soc. Indust. Realtors, 67; Impact of dislocation from urban renewal areas on small business, Small Bus. Admin. Monogr. Address: Center for Real Estate & Urban Economic Studies, University of Connecticut, Storrs, Conn. 06268.

KINNEAR, DR. MICHAEL, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KINNEMAN, DR. JOHN A, b. Abbottstown, Pa, Aug. 27, 95. SOCIOLOGY. A.B, Dickinson Col, 21; A.M, Pennsylvania, 23; Ph.D, Northwestern, 40. Mem. faculty, Pa. State Teachers Col.(West Chester), 21-27; from instr. to prof. sociol. & head dept. soc. sci, Illinois State, 27-63; RETIRED. Sociol. Asn. Community and ecology; society and education; the American citizen. Publ: Community in American Society. Address: 912 S. Fell Ave, Normal, Ill. 61761.

KINNEY, PRES. CHARLES B(AMBURGH), JR, b. Brooklyn, N.Y, Jan. 21, 14; m. 42; c. 5. GOVERNMENT. A.B, Lebanon Valley Col, 37; M.A, Columbia, 40, Ed.D.(govt), 54. Asst. prof. hist. & govt, Champlain Col, 46-49; instr, teachers col, Columbia, 49; prof. soc. sci. & dean instr, Plymouth Teachers Col, 49-58; prof. ed. & dean grad. studies, Cent. Conn. State Col, 58-67; PRES, MATTATUCK COMMUNITY COL, 67- Mem, For. Policy Asn-World Affairs Center. U.S.A, 42-46, Capt. Polit. Sci. Asn. Education; teaching of controversial issues. Publ: Church and state, struggle for separation in New Hampshire, 1630-1900; Sore spots in society; Christian in the world. Address: Mattatuck Community College, 236 Grand St, Waterbury, Conn. 06702.

KINNEY, DR. CHERRY CARTER, b. Madison, Wis, Aug. 25, 35; m. 62. SOCIOLOGY. B.A, Colo. Col, 56; Ford Found. fel. & M.A, Stanford, 57; univ. fel, Indiana, 60-61, Ph.D.(sociol), 65. Instr. SOCIOL, St. Lawrence, 61-63; ASST. PROF, State Univ. N.Y. Oneonta, 65-66; HARTWICK COL, 66- Sociol. Asn; Demog. Asn. Demography; social organization. Address: 6 Crestmont Terr, Oneonta, N.Y. 13820.

KINNEY, DR. GLENN C, b. Seattle, Wash, June 8, 21; m. 43; c. 3. EXPERIMENTAL PSYCHOLOGY. B.A, Washington (Seattle), 50, M.S, 52, Ph.D.(psychol), 59. Exp. & physiol. psychologist, U.S. Air Force Personnel & Training Res. Center, 54-57; mem. staff, Lincoln Lab, Mass. Inst. Tech, 57-59; MITRE CORP, 59-60, SUBDEPT. HEAD EXP. PSYCHOL, 60- Lectr, Boston, 67-68. U.S.M.C.R, 39; U.S.N.R, 39-45. Sensory and motor psychology, especially vision and visual processes; applications to human engineering, engineering psychology and human factors. Publ: Co-auth, Sugar as a reward for hungry and nonhungry rats, J. Exp. Psychol, 56; auth, Visual acuity with two narrow band light sources, U.S. Air Force Electronic Syst. Div, 11/62; Studies in display legibility. XVII. The relative legibility of upper case and lower case typewritten words, Info. Display, 10/67. Address: Mitre Corp, P.O. Box 208, Bedford, Mass. 01730.

KINNEY, JACK A(LANSON), b. Port Allegany, Pa, Sept. 11, 21; m. 53; c. 2. SOCIOLOGY. M.A, Chicago, 51. Sociologist, Inst. Juvenile Res, Ill, 49-51; div. community servs, Ill. Youth Cmn, 51-52; employee utilization technician, civilian personnel off, Rock Island Arsenal, 52-54; personnel res. officer, Ord. Civilian Personnel Agency, 54; chief personnel res. off, Ord. Civilian Personnel Agency, 54-57; admin. officer, Off. Ord. Res, 57-60; staff asst. to chief scientist, Army Res. Off, 60-61; prog. dir. new develop. res. dept, U.S. Navy Personnel Res. Activity, D.C, 61-65; STAFF ASSOC, Inst. Naval Studies, 65-66; ARTHUR D. LITTLE, INC, 66- U.S.A.A.F, 42-46, Lt. AAAS; Sociol. Asn; Acad. Polit. & Soc. Sci; Soc. Gen. Systs. Res; Human Factors Soc; Coun. Crime & Delinquency. Industrial sociology; personnel administration; personnel research design and administration; criminology, social systems. Publ: Study programs recommended for deputy chief of naval operations (manpower and naval reserve) in Navy manpower considerations 1970-1980, Center for Naval Analyses, 66; A model for determining antecedant/consequent relationship of criminal activity and narcotic and/or drug abuse, Thompson Acad. 67; Personnel specialist and the adjustment of supervisors', Personnel Admin. Address: 390 Belknap Rd, Framingham, Mass. 01701.

KINNEY, DR. JO ANN S(MITH), b. Akron, Ohio, Dec. 6, 27; m. 53. EXPERIMENTAL PSYCHOLOGY. A.B, Smith Col, 49; M.A, Cornell, 54; Haskins fel, Connecticut, 57-58, Ph.D.(psychol), 59. RES. PSYCHOLOGIST, U.S. NAVY MED. RES. LAB, SUBMARINE BASE, NEW LONDON, 49- Lectr, Connecticut, 67- Mem. Int. Cmn. Illumination, 60-; cmt. vision, Armed Forces-Nat. Res. Coun, 63- AAAS; Psychol. Asn; Optical Soc; Psychonomic Soc. Night and color vision; audition; perception. Publ: A comparison of scotopic, mesopic and photopic spectral sensitivity curves, J. Optical Soc. Am; Discrimination in auditory and visual patterns & co-auth, A new test of scotopic sensitivity, Am. J. Psychol. Address: Mason's Island, Mystic, Conn. 06355.

KINNEY, DR. PAUL T, b. San Jose, Calif, Sept. 27, 25; m. 46; c. 3. FINANCE, BUSINESS ADMINISTRATION. B.A, San Jose State Col, 51; Ph.D. (econ), Southern California, 57. Lectr, finance & econ, Southern California, 54-57; asst. prof. finance, Illinois, 57-63; dir. computer center, Calif. State Col. Fullerton, 66-67, prof. finance, 63-67, chmn. dept, 67, acting dean, sch. bus. admin, 67-68; CHMN. DIV. BUS, CHICO STATE COL, 68- Participant, Ford Found. Math. Insts, Univs. Minnesota & Illinois. U.S.A, 43-46. Econ. Asn; Finance Asn; Statist. Asn. Publ: Vehicular traffic and the structure of urban property, Univ. Illinois, 66; Recent monetary developments, Ill. Bus. Rev, 9/63; co-auth, Land in transition, Scholarly Monogr, 12/64. Address: Division of Business Administration, Chico State College, Chico, Calif. 95927.

KINNICK, DR. BERNARD CONRAD, b. Rice Lake, Wis, Oct. 31, 35. PSYCHOLOGY, COUNSELING PSYCHOLOGY. B.A, St. John's (Minn), 58; Minnesota, Minneapolis, 61; Fresno State Col, 62; M.A, North Dakota, 63; Ed.D. (couns. psychol), Auburn, 66. Instr, high schs, Calif, 60-62, counsr, Wis, 63-64; ASST. PROF. counsr. ed, Auburn, 65-66; PSYCHOL, COLO. STATE COL, 66- Consult, Choctaw County Improv. Proj, Ala, 64-66; East La. Ed. Improv. Proj, 66. Zebulon Judd res. award, 66. U.S.A.R, 59, Capt. Psychol. Asn; Ed. Res. Asn. Attitude assessment and modification; relationship of attitude with values; student behavior modification resulting from counseling or therapy. Publ: Co-auth, Effect of counseling on peer group acceptance of socially rejected students, Sch. Counsr, 65; auth, Segregationist attitudes change, Phi Delta Kappan, 66; Attitudinal change toward Negroes and school desegration among participants in a summer training institute, J. Soc. Psychol, 67. Address: Dept. of Psychology, Colorado State College, Greeley, Colo. 80631.

KINNON, PROF. WILLIAM D, b. Brookline, Mass, Oct. 21; 27; m. 47; c. 2. PSYCHOLOGY. B.S, Boston, 51; Houston, 52; M.Ed, Trinity (Tex), 53; M.A, Denver, 54, Ph.D.(psychol, ed), 55. Sr. counsr, counseling serv, Denver, 53-55; field rep. student personnel, West. Personnel Inst, 55-56; asst. prof. PSYCHOL, SAN DIEGO STATE COL, 56-62, assoc. prof, 62-65, PROF, 65- Private practice, 56-; dir. psychol. serv, San Diego County Headstart Prog, 65. U.S.A, 46-48; U.S.A.F, 51-53, Res, 53-, Maj. Psychol. Asn; Personnel & Guid. Asn. Counseling; psychological testing; drug usage and abuse; legal psychology. Publ: Co-auth, Non-instructional services to students, Rev. Ed. Res. & The psychologist as an expert witness, Calif. West. Univ. Law Rev. 6/64. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

KINSELLA, DR. NOEL A, b. St. John, N.B, Nov. 28, 39; m. 65; c. 1. PSYCHOLOGY, PHILOSOPHY. B.A, Univ. Col, Dublin, 60; Int. Univ. Soc. Studies, 62-63; L.Ph. & Ph.D.(philos, psychol), Angelicum Univ, Rome, 65; B.D, S.T.L. & S.T.D, Pontifical Lateran Univ, Rome, 66. Vis. prof. PSYCHOL, New Brunswick, 65-66; ASST. PROF, ST. THOMAS (N.B), 65- Consult. psychologist, ment. health clin, N.B. Dept. Health, 66-; N.B. Dept. Labour, 66-, chmn. human rights cmn, 67- Assoc. Am. Philos. Asn; Can. Philos. Asn; Can. Psychol. Asn. Clinical and social psychology; psychopathology of attitudes; ego-identity and moral orientation of mentally retarded children. Publ: Toward a theory of personality development, 66 & Moral orientation of the mentally retarded, 67, St. Thomas Univ, N.B; Epigenesis of personality development, The Thomist, 4/67. Address: Dept. of Psychology, St. Thomas University, Fredericton, N.B, Can.

KINSER, DR. JAMES R(EECE), JR, b. Dallas, Tex, Jan. 20, 24; m. 50. PSYCHOLOGY. Ph.D.(psychol), Texas, 52. CLIN. PSYCHOLOGIST, SAN ANTONIO VET. ADMIN. MENT. HYG. SERV, 52- Consult, State of Tex, 58-62; community guid. center, Bexar Co, 65- U.S.A.A.F, 43-45. Psychol. Asn. Relationship between certain personality traits and social attitudes; group therapy. Address: 1237 Wiltshire Ave, San Antonio, Tex. 78209.

KINSEY, PROF. BARRY A, b. Cartersville, Okla, Feb. 20, 31; m. 53; c. 1. SOCIOLOGY, CRIMINOLOGY. A.B, Okla. State, 53; M.A, Nebraska, 57, Ph.D, 62. Asst. sociol, Nebraska, 55-58; instr, North Dakota, 58-59; asst. prof, Gustavus Adolphus Col, 59-62; assoc. prof, Okla. State, 62-65, prof. & assoc. dir. res. found, 65-67; PROF. SOCIOL. & ANTHROP. & HEAD DEPT, TULSA, 67- Lectr, Nebr. Police Inst; summer lectr, N.Dak. Sch. Alcohol Studies. Consult, youth develop. proj, Southeast. State Col. & U.S. Off. Ed, 66-67. U.S.A.R, 53-55, 1st Lt. Sociol. Asn; Soc. Criminol. Social deviation; alcohol addiction; collective behavior, especially community reactions to crises. Publ: The female alcoholic: a social psychological study, C.C. Thomas, spring 66; Police and public opinion: a study of adverse community reaction to the Starkweather case, Police. Address: Dept. of Sociology, University of Tulsa, Tulsa, Okla. 74104.

KINSEY, DR. ROBERT KENNETH, b. Ft. Wayne, Ind, Nov. 18, 23; m. 67. ECONOMICS. B.A, Indiana, 49; Ph.D, Columbia, 60. Labor economist, bur. labor statist, U.S. Dept. Labor, 51-53; res. asst, Nat. Bur. Econ. Res. 54-56; instr. econ, Massachusetts, 56-57; Rutgers, 57-60; res. analyst, adv. cmn. intergovt. rels, 61-64; TAX RES. OFFICER, RES. DIV, INTERNAL REVENUE SERV, 64- Sig.C, U.S.A, 43-46. Econ. Asn. Public finance; monetary economics; international trade. Publ: The role of lotteries in public finance, Nat. Tax J, 3/63. Address: 4701 Willard Ave, Chevy Chase, Md. 20015.

KINSEY, W. FRED, III, b. U.S, July 3, 29; m. 51; c. 1. ANTHROPOLOGY. A.B, Columbia, 51, M.A, 53. Curator anthrop, Pa. State Mus, 55-60, chief curator, 60-63; DIR. NORTH MUS, FRANKLIN & MARSHALL COL, 63- Nat. Park Serv. contracts, 64-68; Nat. Sci. Found. res. grant, 65. Consult, Ft. Pitt Mus, Pa, 65- U.S.A, 53-55. Anthrop. Asn; Soc. Archaeol. Eastern ethnography; Pennsylvania archaeology; prehistory of the Upper Delaware Valley. Publ: Co-auth, Susquehannock miscellany, Pa. Hist. & Mus. Cmn, 59. Address: North Museum, Franklin & Marshall College, Lancaster, Pa. 17604.

KINTNER, PROF. WILLIAM R(OSCOE), b. Lock Haven, Pa, Apr. 21, 15; m. 45; c. 4. POLITICAL SCIENCE. B.S, U.S. Mil. Acad, 40; M.A, Georgetown, 48, Ph.D, 49. Mem. staff, Cent. Intel. Agency, 50-52; chief plans br, UN Command, Military Armistice Cmn, 53; Off. Secy. Defense planning bd. asst, Nat. Sci. Found, 54; spec. asst. to President, 55; sr. mil. adv, opers. res. off, Hopkins, 56-57; spec. asst. to commanding gen, hq, U.S. Army, France, 57-58, mem. staff, off. chief res. & develop, 58-60, chief long range plans, coord. group, off. chief staff, 60-61; PROF. POLIT. SCI, WHARTON SCH. & DIR. FOR. POLICY RES. INST, PENNSYLVANIA, 61- Mem. acad. bd, Inter-Am. Defense Col. U.S.A, 40-61, Col; Legion of Merit & Oak Leave Cluster; Bronze Star & Oak Leaf Cluster. Nat. Planning Asn; Polit. Sci. Asn; Acad. Polit. & Soc. Sci; Inst. Strategic Studies. American foreign policy; national security affairs; United States-Soviet strategic interactions; political warfare; Communist strategic and organization tactics. Publ: Co-auth, Protracted conflict, Harper, 59 & The nuclear revolution in Soviet military affairs, Univ. Oklahoma, 67; auth, Peace and the strategy conflict, Praeger, 67. Address: Foreign Policy Research Institute, University of Pennsylvania, 133 S. 36th St, Philadelphia, Pa. 19104.

KINTSCH, DR. WALTER, Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

KINTZ, DR. B(UDDY) L(EE), b. Mechanicsville, Iowa, Nov. 28, 31; m. 57; c. 2. PSYCHOLOGY. B.A, Iowa, 59, M.A, 61, Ph.D.(psychol), 62. Asst. prof. PSYCHOL, Ohio, 62-65; WEST. WASH. STATE COL, 65-67, ASSOC. PROF, 67- U.S.A.F, 51-56, S/Sgt. AAAS; Psychol. Asn. Psychophysiology; learning; motivation; measurement; statistics. Publ: Co-auth, The experimenter effect, Psychol. Bull, 65, Punishment and compulsive avoidance behavior, J. Comp. & Physiol. Psychol, 67 & An analysis of the incidental-intentional learning dichotomy, J. Exp. Psychol, 67. Address: Dept. of Psychology, Western Washington State College, Bellingham, Wash. 98225.

KINZER, DR. JOHN R(OSS), b. Los Angeles, Calif, July 7, 12; m. 36. PSYCHOLOGY. A.B. & Mus.B, Washburn Col, 34; M.A, Kansas, 35; Ph.D. (philos. of ed), Peabody Col, 40. Asst. prof. philos, East. Ky. State Col, 38-42; mgr. personnel, Wright Aeronaut. Corp, 42-44; asst. prof. psychol, Ohio State, 45-47, assoc. prof, 47-50, prof, 50-62; prof. ed. psychol. & head dept, Arizona, 62-66; RES. SPECIALIST, INFO. & LIFE SCI, AUTONETICS DIV, N.AM-ROCKWELL CORP, 66- Consult, Vet. Admin. Fel. Psychol. Asn; Statist. Asn; Biomet. Soc. Information systems. Address: 1001 Charwood Lane, Santa Ana, Calif. 92705.

KINZER, LYDIA GREENE, b. Rockville, Ind, Aug. 3, 07; m. 36. MATHEMATICS. A.B, Washburn Col, 30; M.A, Kansas, 31. Teacher, post sch, Ft. Leavenworth, Kans, 34-36, prin, 36-38; spectroscopist, Wright Aeronaut. Corp, Ohio, 43-44; statistician, Ohio State, 47-62; Bell Aerosysts. Co, Ariz, 62-67; STATIST. ANALYST, COUNTY OF ORANGE, CALIF, 67- Inst. Math. Statist. Design of experiments; statistical data processing. Publ: Century of progress in secondary school mathematics, 1834-1934, Peabody J. Ed; Mathematical appendix, In: Rubella-deafened infants, Am. J. Diseases Children. Address: 1001 Charwood Lane, Santa Ana, Calif. 92705.

KIP, DR. RICHARD deR(AISMES), Ins, see 10th ed, Soc. & Behav. Vols.

KIPNIS, DR. DAVID, b. Rockaway, N.Y, Dec. 14, 25; m. 57; c. 2. PSYCHOLOGY. B.A, Syracuse, 50; M.A, N.Y. Univ, 53, Ph.D, 56. Res. assoc. indust. psychol, Richardson, Bellows, Henry & Co, 51-53; psychologist pub. health, Mem. Center for Cancer, N.Y, 53-54; res. psychologist, Am. Cancer Soc, 54-56; U.S. Naval Personnel Res. Activity, D.C, 57-62; Navy Med. Res. Inst, 62-65; ASSOC. PROF. PSYCHOL, TEMPLE, 65- U.S.A, 43-47. Psychol. Asn; N.Y. Acad. Sci. Effects of industrial structure upon individual and

group behavior. Publ: Effects of leadership style and power upon attitudes, J. Abnorm. & Soc. Psychol; Mobility expectations and attitudes toward industrial structure, Human Rels, 65; Correlates of character structure, J. Personality & Soc. Psychol, 3/68. Address: 10 Windsor Ave, Melrose Park, Pa. 19126.

KIRBY, PROF. BERNARD C(ROMWELL), b. Indianapolis, Ind, Oct. 9, 07; m. 30; c. 2. SOCIOLOGY. B.A, Denison, 29; Chicago, 29-30; M.A, Washington (Seattle), 50, Ph.D, 53. Probtn. officer, Juvenile Court, Cook County, Ill, 31-33, caseworker & asst. dist. supvr, Bur. Pub. Welfare, 33-35; exec. secy, League Indust. Democracy, Chicago, Ill, 35-37; field rep, State Dept. Pub. Assistance, Idaho, 40-42; adminstr, Welfare Dept, Walla Walla County, Wash, 42-44; instr, Farragut Col. & Tech. Inst, Idaho, 46-48; parole officer, State Bd. Prison Terms & Paroles, Wash, 53-54; from asst. prof. to PROF. SOCIOL, SAN DIEGO STATE COL, 54-, chmn. dept. sociol, 59-62. Prin. investr, Nat. Inst. Ment. Health demonstration grant on The Crofton House Study, 64-69. Sociol. Asn; Soc. Study Social Probs. Criminology and penology. Publ: Measuring effects of treatment of criminals and delinquents, Soc. & Social Res; Parole prediction using multiple correlation, Am. J. Sociol; Three error sources in college grading, J. Exp. Ed, 12/62. Address: Dept. of Sociology, San Diego State College, San Diego, Calif. 92115.

KIRBY, DR. H. W, b. Sarnia, Ont, June 20, 26; m. 66. PSYCHOLOGY. B.A, Sir George Williams, 54; M.A, Toronto, 56; Ph.D.(psychol), London, 64. Personnel officer, Can. Dept. Nat. Defense, 56-60; res. psychologist, Verdun Protestant Hosp, 60-61 & 63-64; asst. prof. PSYCHOL, Windsor, 64-68; ASSOC. PROF, GUELPH, 68- Can. Army, 56-60, Capt. Psychol. Asn. Animal behavior in both laboratory and field studies. Address: Dept. of Psychology. University of Guelph, Guelph, Ont, Can.

KIRCH, DR. ROBERT V(OSS), b. Chicago, Ill, Dec. 10, 23; m. 45; c. 2. POLITICAL SCIENCE. Ph.D.(polit. sci), Indiana, 55. From instr. to asst. prof. GOVT, INDIANA, INDIANAPOLIS DOWNTOWN CAMPUS, 53-61, ASSOC. PROF, 61-, ASST. CHMN. DEPT, 67- Med. Admin.C, 42-46, Med.Serv.C. Res, 46-, Capt. Polit. Sci. Asn; Soc. Pub. Admin. Public administration and law; state and local government. Address: Dept. of Government, Indiana University Downtown Campus, 518 N. Delaware St, Indianapolis, Ind. 46204.

KIRCHER, DR. HARRY B(ERTRAM), b. Spokane, Wash, Sept. 21, 15; m. 50; c. 1. ECONOMIC GEOGRAPHY. B.S, North Carolina, 38; M.A, Washington (St. Louis), 50; Ph.D, Clark, 61. Asst. ed, N.C. Cotton Growers Coop. Asn, 38-40; asst. chief, savings bond dept, Fed. Reserve Bank of St. Louis, 40-44, res. ed. asst, 45-47, indust. economist, 51-64; instr. econ. geog, Washington (St. Louis), 48-50; ASSOC. PROF. GEOG, SOUTHERN ILLINOIS, EDWARDSVILLE, 64- Lectr, Washington (St. Louis), 51-64. AAAS; Asn. Am. Geog; Econ. Asn; Regional Sci. Asn. Regional structure of the United States economy, especially physical and cultural geographic factors. Publ: Geography through maps, the southern Illinois prairies, Nat. Coun. Geog. Ed, 67; Southeast Missouri mining region, Monthly Rev; Growth potential from Missouri cities, Bus. & Govt. Rev, 3-4/64. Address: 348 Sunset Drive, Edwardsville, Ill. 62025.

KIRCHER, PROF. PAUL, b. Chicago, Ill, July 21, 15; m. 47; c. 4. ACCOUNTING. B.B.A, New Mexico, 41; M.B.A, Michigan, 47, Ph.D, 49. Mem. staff, Chicago, 48-52; from assoc. prof. to PROF. ACCT. & V.CHMN. DEPT. ACCT. & BUS. LAW, SCH. BUS. ADMIN, CALIFORNIA, LOS ANGELES, 52- Publ: Electronic computers and management control; The crisis we face, automation and the cold war. Address: School of Business Administration, University of California, Los Angeles, Calif. 90024.

KIRCHHEIMER, PROF. OTTO, Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 65.

KIRCHHERR, PROF. EUGENE C(ARL), b. Chicago, Ill, Dec. 12, 28; m. 56; c. 2. GEOGRAPHY. B.Ed, Chicago State Col, 50; M.S, Northwestern, 51, fel, 56-57, Ph.D.(geog), 59. Asst. to dir. spec. studies, Real Estate Res. Corp, Ill, 55-56; instr. GEOG, WESTERN MICHIGAN, 57-59, asst. prof, 59-61, assoc. prof, 61-65, PROF, 65- Inst. Regional Studies faculty res. fel, Africa, 62; vis. prof, Glasgow, 66-67. Summers, mem. Nat. Sci. Found. Inst. Teachers Jr. High Sch. Sci, 60-61, vis. prof, Nat. Defense Ed. Act. Inst. Geog, Fla. State, 66. Asn. Am. Geog; African Studies Asn; Am. Geog. Soc; Urban Land Inst. Urban geography, especially problems of land use and geographical aspects of urbanization in tropical Africa; economic geography of Sub-Saharan Africa; metropolitan planning. Publ: Some notes on the study of settlement geography in Ghana, Bull. Ghana Geog. Asn, 63; A planning intership program for graduate students in urban geography, Prfnl. Geogr, 67; Tema, 1951-1962: the evolution of a planned city in West Africa, Urban Studies, 68. Address: Dept. of Geography, Western Michigan University, Kalamazoo, Mich. 49001.

KIRCHNER, DR. ELIZABETH P(ARSONS), b. Baltimore, Md, July 20, 28; m. 50; c. 3. PSYCHOLOGY. B.S, Cornell, 50; M.S, Pa. State, 52, Ph.D. (psychol), 55. Clin. psychol. trainee, Vet. Admin, 55-58; sr. clin. psychologist, Buffalo State Hosp, 58-60; clin. psychologist, E.J. Meyer Mem. Hosp, Buffalo, N.Y, 60-65; ASST. PROF. PSYCHOL, PA. STATE, 65- Lectr, State Univ. N.Y. Buffalo, 62-63. Consult, Williamsville New York Sch. Dist, 60-61. AAAS; Psychol. Asn. Clinical and developmental psychology; verbal learning and behavior; personality. Address: Dept. of Psychology, Pennsylvania State University, University Park, Pa. 16802.

KIRCHNER, DR. WAYNE K(ERMIT), b. Minneapolis, Minn, July 17, 26; m. 55. INDUSTRIAL PSYCHOLOGY. B.A, Minnesota, 49, M.A, 51, fel, 51-54, Ph.D, 54. Instr. psychol, Minnesota, 51-54; res. assoc, Am. Inst. Res, 55-56; assoc. adv. PERSONNEL RES, MINN. MINING & MFG. CO, 56-59, res. adv, 59-60, MGR, 60- Fulbright scholar, Cambridge, 54-55; lectr, Macalester Col, 57-; instr, Minnesota, 57-58; lectr, Pa. State, 60. V.pres, Personnel Decisions, Inc, 67- U.S.N, 44-46. Psychol. Asn; Personnel & Guid. Asn. Selection and differential placement of sales, office and management personnel; test development; problems of older employees; management development and effectiveness. Publ: Co-auth, Psychology applied to industry, Appleton, 65; Age differences in short-term retention of rapidly changing information, J. Exp. Psychol; Predicting ratings of sales success with objective performance information, J. Appl. Psychol. Address: 3201 Heritage Dr, Minneapolis, Minn. 55435.

KIRIAZIS, DR. JAMES WILLIAM, b. Weirton, W.Va, Mar. 12, 28; m. 48; c. 4. ANTHROPOLOGY, SOCIAL WORK. A.B, Youngstown, 51; George Bivin Found. fel, La. State, 52, Vet. Admin. fel, 53, M.S.W, 53; Nat. Defense Ed. Act fel, Pittsburgh, 60-62, univ. fel, 63, Ph.D.(anthrop), 67. Psychiat. soc. worker, Chillicothe Vet. Admin. Hosp, 53-55; supvr. soc. work, Children's & Family Serv. Soc, 55-57; chief psychiat. caseworker, Ohio Ment. Hyg, Child Guid. Clin, Warren, 57-59; psychiat. caseworker, Ohio Ment. Hyg, Ment. Health Clin, Youngstown, 59-60; ASST. PROF. ANTHROP. & SOCIOL, YOUNGSTOWN STATE, 63- Lectr. & vis. scholar, Ohio Acad. Sci, 65-U.S.A, 46-47. Anthrop. Asn. Cultural change and pluralism of Rhodian-Greek immigrants; social structure and religion of peasant societies; psychiatric interpretations of alcoholism. Address: Dept. of Sociology, Youngstown State University, Youngstown, Ohio 44503.

KIRK, BARBARA ANNE, b. San Francisco, Calif, Nov. 28, 06; m. 45; c. 1. COUNSELING PSYCHOLOGY. A.B, Stanford, 27, M.A, 34; Minnesota, 36-37. Asst. psychol, Stanford, 27-36; psychometrist, Minnesota, 36-37; supvr. jr. counseling serv, Nat. Youth Admin, 37-41; occup. counsr. & supvr. counseling & testing, U.S. Employment Serv, Calif, 41-46; MGR, Vet. Admin. Guid. Center, CALIFORNIA, BERKELEY, 46-50, COUNSELING CENTER, 52- Lectr, California, 51-52, 54- Consult, Oakland Bd. Ed, 58-60; Berkeley Bd. Ed, 59-61; Vet. Admin. Voc. Rehab. Serv, 60-; voc. consult, soc. security disability prog, U.S. Dept. Health, Ed. & Welfare, 62- Dipl. Am. Bd. Exam. Prfnl. Psychol, 48. Psychol. Asn; Personnel & Guid. Asn; Nat. Coun. Measurement in Ed. Clinical vocational, educational and personal counseling process; interest and personality test instruments; selection and prediction studies of academic and professional curriculum, and professional vocational success. Publ: Classification system-field of counseling psychology, J. Counseling Psychol; Test versus academic performance in malfunctioning students, J. Consult. Psychol; Negativistic reactions of preschool children on the new revision of the Stanford Binet, J. Genetic Psychol. Address: Counseling Center, Bldg. T-5, University of California, Berkeley, Calif. 94720.

KIRK, PROF. DUDLEY, b. Rochester, N.Y, Oct. 6, 13; m; c. 3. SOCIOLOGY. A.B, Pomona Col, 34; M.A, Fletcher Sch. Law & Diplomacy, 35; London Sch. Econ, 36; M.A, Harvard, 38, Ph.D.(sociol), 46. Librarian, dept. sociol, Harvard, 36-39, asst. & tutor sociol, 36-39; asst. off. pop. res, Princeton, 39-41, res. assoc, 41-47, asst. prof. sociol, 45-47; demographer, off. intel. res, U.S. Dept. State, 47-50, sociol. adv, 50-52, chief div. res. for Near East, S.Asia & Africa, 52, chief planning officer res. & intel, 53-54; demog. dir, Pop. Coun, N.Y, 54-67; PROF. DEMOG, FOOD RES. INST, STANFORD, 67- Mem. Nat. Cmt. Vital & Health Statist, 60-65. Fel. AAAS; fel. Sociol. Asn; fel. Statist. Asn; Pop. Asn.(pres, 60); Int. Union Sci. Study Pop. Demography; economic and political geography; sociological theory. Publ: Europe's population in the interwar years; co-auth, The future population of Europe and the Soviet Union & Principles of political geography. Address: Food Research Institute, Stanford University, Stanford, Calif. 94305.

KIRK, PRES. GRAYSON, b. Jeffersonville, Ohio, Oct. 12, 03; m. 25; c. 1. INTERNATIONAL RELATIONS. A.B, Miami (Ohio), 24; A.M, Clark, 25; Am. Field Serv. fel, Paris, 28-29; Ph.D, Wisconsin, 30; hon. degrees from 36 instns, U.S. & abroad. Instr. polit. sci, Wisconsin, 29-30, asst. prof, 30-36, assoc. prof, 36-38, prof, 38-40; assoc. prof. govt, COLUMBIA, 40-43, PROF, 43-47, INT. RELS, 47-, PRES. & TRUSTEE, 53-, v.pres. & provost, 50-53. Soc. Sci. Res. Coun. fel, London Sch. Econ, 36-37; head security sect, div. polit. studies, U.S. Dept. State, 42-43; res. assoc, inst. int. studies, Yale, 43-44. Dir, Coun. For. Rels. Mem. U.S. Del, Dumbarton Oaks Conf, 44; exec. officer, 3rd cmn, San Francisco Conf, 45. Comdr, Order Orange-Nassau, Netherlands, 52; hon. Knight Comdr, Order of the British Empire, 55; Comdr, Legion of Honor, France, 56; Grand Officer, Order of Merit, Italy, 56; Assoc. Knight, Order of St. John of Jerusalem, 59; Order of Taj, Iran, 61; Cross of the Grand Officer, Order of George I, Greece, 65; Order of the Sacred Treasure, First Class, Japan, 65; Commandeur de l'Ordre des Palmes Academiques, France, 66. Polit. Sci. Asn; Soc. Int. Law; Philos. Soc; Am. Acad. Arts & Sci; Acad. Polit. Sci. Philippine independence; contemporary international politics; study of international relations in American colleges and universities. Address: Columbia University, New York, N.Y. 10027.

KIRK, PROF. H(ENRY) DAVID, b. Düsseldorf, Germany, Mar. 15, 18; nat; m. 42; c. 4. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.S, City Col. New York, 48; univ. fel, Cornell, 49-51, M.A, 50, Ph.D, 53; Nat. Inst. Ment. Health fel, 51-53. Asst. prof. soc. studies, State Univ. N.Y. Col. Ed.(Cortland), 53-54; assoc. prof. sociol. res, sch. soc. work, McGill, 54-66; PROF. SOCIOL. & ANTHROP, WATERLOO, 66- Vis. prof, Whittier Col, 59-61; Los Angeles State Col, 61; summer, Allegheny Col, 61; fel, Community Studies, Inc, Mo, 61. Sociol. Asn; Soc. Study Social Probs; Can. Polit. Sci. Asn. Sources of political allegiance and loyalty; social psychology of solidarity; the adoptive family; social change in occupational behavior; role theory; personality theory. Publ: Shared fate: a theory of adoptive relations; co-ed, A symposium on social change; auth, A dilemma of adoptive parenthood: incongruous role obligations, Marriage & Family Living. Address: Dept. of Sociology & Anthropology, University of Waterloo, Waterloo, Ont, Can.

KIRK, DR. JAMES H(OBERT), b. Indianapolis, Ind, Sept. 10, 23; m. 46; c. 6. SOCIOLOGY. A.B, St. Louis, 47, M.A, 49, Ph.D.(sociol), 51. Instr. sociol, Loyola (Calif), 51-54, asst. prof, 54-57, assoc. prof, 57-61, chmn. dept, 53-61; human factors scientist, Syst. Develop. Corp, Calif, 61-67; dep. dir. PEACE CORPS, ACCRA, GHANA, 67-68, DIR, 68- Consult, Cmn. Race & Housing, 55-56. U.S.A, 43-44. Sociol. Asn; Acad. Polit. & Soc. Sci. Criminology; juvenile delinquency; race and ethnic relations. Publ: Private housing boom: for whites only; Characteristics of minority group families. Address: c/o American Embassy, Accra, Ghana.

KIRK, DR. JEROME (RICHARD), b. Milwaukee, Wis, May 27, 37; m. 60. SOCIOLOGY, SOCIAL SCIENCE. B.A, Reed Col, 60; Ph.D.(sociol), Hopkins,

65. Res. assoc. indust. admin. & sociol, grad. sch. indust. admin, Carnegie Inst. Tech, 63-66; ASST. PROF. sociol, CALIFORNIA, IRVINE, 66-67, SOCIOL. & SOC. SCI, 67- AAAS; Sociol. Asn; Math. Soc; Inst. Math. Statist; Polit. Sci. Asn. Social foundations of collective innovation; deviant or innovative organizations and communities generating and diffusing social, cultural and political change. Publ: Cultural diversity and character change at Carnegie Tech, Carnegie Tech. Campus Study, 65. Address: School of Social Sciences, University of California, Irvine, Calif. 92664.

KIRK, PROF. PAUL L(ELAND), Biochem, Criminol, see 11th ed, Phys. & Biol. Vols.

KIRK, PROF. ROBERT BRUCE, b. Saskatoon, Sask, Dec. 23, 13; nat; m. 42. EDUCATIONAL PSYCHOLOGY. B.A, Saskatchewan, 37; B.Ed, British Columbia, 47; M.S, Purdue, 50, Ph.D, 52. Teacher, Burnaby North High Sch, 45-47; counsr, Purdue, 48-49, asst. to dir. ed. res, 49-53; teacher psychol, Chicago Teachers Col, 53-58; dir. continuing ed, Am. Dietetic Asn, 58-59, consult, 60; prof. ed, Jersey City State Col, 59-62, chmn. dept, 61-62; PROF. PSYCHOL, NORTHEAST. ILL. STATE COL, 62-, CHMN. DIV. HUMAN PERSONALITY, 62-64, 66- AAAS; Psychol. Asn. Social psychology; study of attitudes related to other variables; socio-economic level; education. Publ: America's high school students evaluate their public school system, Studies Higher Ed; co-auth, Scalability and validity of the socio-economic status items of the Purdue opinion poll, J. Appl. Psychol; Psychological research on creativity, In: Perceptual growth in creativity, Int. Textbook, 67. Address: Dept. of Psychology, Northeastern Illinois State College, 5500 N. St. Louis Ave, Chicago, Ill. 60625.

KIRK, PROF. ROGER E(DWARD), b. Princeton, Ind, Feb. 23, 30. PSYCHOLOGY. B.S, Ohio State, 51, M.A, 52, Ph.D.(psychol), 55. Sr. psychoacoustic engr, Baldwin Co, 55-58; asst. prof. PSYCHOL, BAYLOR, 58-60, assoc. prof, 60-64, PROF, 64- Psychol. Asn; Acoustical Soc; Human Factors Soc; Psychomet. Soc. Human factors research on display and systems problems; psychoacoustics; experimental design. Publ: Experimental design: procedures for the behavioral sciences, Brooks, 68; co-auth, Organismic variables as predictors of vigilance behavior, Perceptual & Motor Skills, 65 and Effects of air ionization upon the performance of a vigilance task, J. Eng. Psychol, 65. Address: Dept. of Psychology, Baylor University, Waco, Tex. 76703.

KIRK, DR. ROY V(ERNON), b. Hartford, Ky, Dec. 9, 27; m. 64. INDUSTRIAL ADMINISTRATION & PSYCHOLOGY. B.S, Purdue, 55, M.S, 59, Ph.D.(indust. admin), 62. Dept. mgr, Procter & Gamble Co, 55-58; instr. econ, Purdue, 59-60, 61-62, admin. asst. off. of pres, 60-61; asst. prof. MGT, RENSSELAER POLYTECH, 62-64, ASSOC. PROF, 64- Participant, Ford Found. Vis. Prof. Summer Case Method Prog, bus. sch, Harvard, 65. Consult, Schenectady Chem. Inc, N.Y. & Logistics Mgt. Inst, D.C, 65- U.S.N.R, 45-46. AAAS; Econ. Asn; Inst. Mgt. Sci. The effect of different managerial climates, supervisory styles and work group characteristics on organizational performance and effectiveness. Publ: Automation—a mixed blessing, Inst. Elec. & Electronics Engrs. News Bull, 4/64; Northeast Research & Design, Inc, Intercollegiate Case Clearinghouse, 10/65; co-auth, Managerial climate, work groups, and organizational performance, Admin. Sci. Quart, 9/67. Address: 26 Van Winkle Dr, R.D. 1, Rensselaer, N.Y. 12144.

KIRK, DR. RUTH P(ORTMAN), b. Birmingham, Ohio, Sept. 24, 25; m. 63. BIOSTATISTICS. B.A, Oberlin Col, 46; B.S, Washington, 58; U.S. Pub. Health Serv. fel, North Carolina, 59-62; M.S, N.C. State Col, 61, Ph.D.(exp. statist), 63. Asst. supvr. biol. control cent. nervous syst, Parke, Davis & Co, 47-49, asst. res. pharmacologist, res. labs, 49-55; lab. technician, Washington, 55-58; asst. statist, N.C. State Col, 58-59; RES. INSTR. BIOSTATIST, WASHINGTON (SEATTLE), 62- AAAS; Statist. Asn; Biomet. Soc. Design and analysis of biological experiments. Address: University of Washington School of Medicine, Seattle, Wash. 98105.

KIRK, PROF. SAMUEL A(LEXANDER), b. Rugby, N.Dak, Sept. 1, 04; m. 33; c. 2. PSYCHOLOGY, EDUCATION. Ph.B, Chicago, 29, M.S, 31; Ph.D.(exp. & clin. psychol), Michigan, 35. Dir. div. ed. except. children, Milwaukee State Col, 35-42, 46-47, chmn. grad. sch, 46-47; prof. ed. & psychol, Illinois, Urbana, 47-68, dir. inst. res. except. children, 52-68; PROF. ED. & PSYCHOL, ARIZONA, 68- Res. psychologist & remedial teacher, Wayne County Training Sch, Mich, 31-35; res. teacher, Oaks Sch. Ment. Retarded Children, Ill. Consult, U.S. High Cmnr. Germany, 50, 51. Pres, Int. Coun. Except. Children, 40-42, J.E. Wallace Wallin annual award, 66. Joseph P. Kennedy Jr. Found. first int. award in ment. retardation, 62; N.Y. State Asn. Retarded Children award, 63. U.S.A, 42-46, Maj. AAAS; fel. Psychol. Asn; Asn. Ment. Deficiency (v.pres, 51). Psychology and education of exceptional children. Publ: Educating the retarded child, 51 & Educating exceptional children, 62, Houghton; co-auth, Illinois test for psycholinguistic abilities, Univ. Arizona, 68. Address: 410 Education Bldg, University of Arizona, Tucson, Ariz. 85721.

KIRK, PROF. VIRGINIA, b. Kirksville, Mo, Dec. 22, 95. CLINICAL PSYCHOLOGY. B.A, Drake, 17; M.S, Yale, 30; Ph.D, Chicago, 49. Res. asst, psycho-clin, Yale, 30-31; dir. nursing, Emma Pendleton Bradley Home, East Providence, R.I, 31-35; res. assoc, Williamson County Child Guid. Study, Tenn, 35-42; instr. CLIN. PSYCHOL, SCH. MED, VANDERBILT, 43-47, asst. prof, 47-54, assoc. prof, 54-61, EMER. ASSOC. CLIN. PROF, 61-, VIS. CLIN. PSYCHOLOGIST, UNIV. HOSP. & OUT-PATIENT DEPT, 43- Asst. prof, Nashville Sch. Soc. Work, 43-51; lectr, sch. soc. work, Tennessee, 51-61. Clin. psychologist, private practice, 61- Consult, Family & Children's Serv, 53- AAAS; Psychol. Asn; Speech & Hearing Asn; Asn. Ment. Deficiency. Mental health in rural areas; psychological problems in surgery and neurosurgery; mental development of children with hyaline membrane disorder and with birth defects. Publ: Co-auth, Introduction to psychology, Psychological survey on a child population in Williamson County, Tennessee, J. Gen. Psychol. & A psychiatric study of 61 appendicectomy cases, Ann. Surg. Address: 634 Medical Arts Bldg, Nashville, Tenn. 37212.

KIRK, DR. WILLIAM LOYAL, JR, Biostatist, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KIRKBRIDE, PROF. VIRGINIA R(ANDOLPH), b. Bostwick, Nebr, Sept. 14, 10. PSYCHOLOGY. A.B, Nebraska, 41, M.A, 42; Ed.D, George Washington, 59. Dir. women's activities, GEORGE WASHINGTON, 44-62, ASSOC. PROF. ED. PSYCHOL, 60-, dean women, 62-67. Summer, vis. lectr, Indiana, 62 & 67. Psychol. Asn. Practical use of group approaches in the development of leadership and in the guidance of student activities at the collegiate level. Publ: Group approaches to student personnel services in higher education, J. Nat. Asn. Women Deans & Counsrs. & J. Col. Student Personnel. Address: Dept. of Psychology, George Washington University, Washington, D.C. 20006.

KIRKENDALL, PROF. LESTER A(LLEN), b. Oberlin, Kans, Nov. 15, 03; m. 36; c. 2. PSYCHOLOGY. B.S, Kans. State Col, 28; M.A, Columbia, 31, Ph.D, 35. Assoc. prof. ed, Teachers Col. Conn, 35-41; prof. guid. & ed, Oklahoma, 41-43; ed. consult, U.S. Govt, N.C. & Wash, D.C, 43-46; dir, Asn. Family Living, Chicago, Ill, 46-48; specialist family life ed, Univ. Illinois YMCA, 48-49; PROF. FAMILY LIFE, OREGON STATE, 49- Vis. prof, Univ. Kansas Med. Center, 66. Mem. ad hoc cmt, children's bur, Dept. of Health, Ed. & Welfare. Soc. Sci. Study Sex; Asn. Marriage Counsr. Aspects of human sex behavior; interpersonal relationships. Publ: Sex education as human relations, Inor, 50; Premarital intercourse and interpersonal relationships, Julian, 61; A reading and study guide for students in marriage and family relations, W.C. Brown, 65. Address: Dept. of Family Life, Oregon State University, Corvallis, Ore. 97331.

KIRKHART, DR. ROBERT OLIN, b. Canton, Ohio, Mar. 2, 31; m. 55; c. 2. CLINICAL & SOCIAL PSYCHOLOGY. B.S, Kent State, 53, M.A, 55; Ph.D, Ohio State, 59. Asst. psychol, Kent State, 53-55; Ohio State, 55-56; intern, Chillicothe Vet. Admin. Hosp, 56-59; chief psychologist, East. Maine Guid. Center, 59-60; staff psychologist, Summit County Receiving Hosp, 60-62; CLIN. PSYCHOLOGIST, 62- Lectr, Akron, Ohio, 60- Psychol. Asn. Personality theory; psychotherapy; psychological tests; group dynamics. Publ: Minority group identification and leadership, J. Soc. Psychol. Address: 3966 Hudson Dr, Cuyahoga Falls, Ohio 44221.

KIRKNER, DR. FRANK J(OSEPH), b. Independence, Iowa, Apr. 1, 03; m. 41; c. 1. CLINICAL PSYCHOLOGY. B.A, Iowa State Teachers Col, 30; M.S, Iowa, 31; Southern California, 36; Nat. Res. Coun. fel, California, Los Angeles, 40-42, Ph.D.(psychol), 43. Phys. dir, YMCA, Waterloo, Iowa, 25-30, assoc. secy, Santa Monica, Calif, 36-39; instr. biol. sci, Bloomfield Jr. Col, Iowa, 31-35; asst. psychol, California, Los Angeles, 41-42; employee counsr. & job rels. instr, res. labs, Douglas Aircraft, Inc, 42-44; voc. adv, Vet. Admin, 44-45, chief psychologist, Vet. Admin. Ment. Health Center, Los Angeles, Calif, 45-46, chief clin. psychol. sect, Vet. Admin. Hosps, Birmingham, Van Nuys & Long Beach, Calif, 46-60, in charge voc. counseling serv, Long Beach, 57-58, coordinator, 58-60, acting chief psychol. serv, 60-61, chief, 61-65; acting chief psychologist, Calif. Rehab. Center, 65; STAFF PSYCHOLOGIST, FAIRVIEW STATE HOSP, COSTA MESA, 66- Assoc. clin. prof, California, Los Angeles, 52-57, clin. prof, 57-, post-grad. med. exten, 52-59, post-grad. dent. exten, 55-; prof, Long Beach State Col, 59-60; clin. assoc, Southern California, 60-64; asst. clin. prof, Calif. Col. Med, 67- Res. dir, Community Rehab. Industs, Long Beach, 57-60, mem. bd. dirs, 58-, mgt. cmt, 59-, award of merit, 59; mem, Governor's Conf. Rehab. Phys. Handicapped Adult, Sacramento, 57, Conf. Aging, 60; President's Conf. Voc. Rehab. Phys. Handicapped Adult, Oakland, 58; chmn. & exec. secy, regional psychol. training cmt, Vet. Admin, Los Angeles, 58-59. Dipl, Am. Bd. Exam. Prfnl. Psychol; Am. Bd. Exam. Psychol. Hypnosis. AAAS; Psychol. Asn; Soc. Clin. & Exp. Hypnosis.(v.pres, 59-, ed. jour, 61-); Rehab. Asn; hon. mem. Soc. Dent. for Children. Psychopathology; prognosis and treatment. Publ: Co-auth, Industrial recovery for hemiplegics; Packaging rehabilitee data for industry; A demonstration and research study of the vocational rehabilitation of the physically rehabilitated hemiplegic in a workshop setting. Address: 460 Peralta Ave, Long Beach, Calif. 90814.

KIRKPATRICK, PROF. CLIFFORD, b. Fitchburg, Mass, Oct. 22, 98; m. 39; c. 3. SOCIOLOGY. A.B, Clark, 20, A.M, 22, fel, 22-23; Harrison fel. & Ph.D.(sociol), Pennsylvania, 25. Instr. SOCIOL, Brown, 23-24; Pennsylvania, 25-26, asst. prof, 26-30; assoc. prof, Minnesota, 30-36, PROF, 36-49; INDIANA, 49-, chmn. dept, 49-53. Guggenheim fel, 36-37; E.W. Burgess award, 65 & corresponding lect, 66. Chemist, U.S. Bur. Fisheries, 21; res. team leader, U.S. Strategic Bombing Surv, Germany, 45. U.S.A, 17-19. Sociol. Asn.(1st v.pres, 51). Sociology of the family; social psychology. Publ: Religion in human affairs; Nazi Germany; The family as process and institution. Address: Route 2 Bender Rd, Bloomington, Ind. 47401.

KIRKPATRICK, PROF. ELLIS L, Sociol, see 10th ed, Soc. & Behav. Vols, deceased 64.

KIRKPATRICK, DR. EVRON M(AURICE), b. Benton Co, Ind, Aug. 15, 11; m. 55; c. 3. POLITICAL SCIENCE. A.B, Illinois, 32, M.A, 33; Ph.D, Yale, 39. Instr, Minnesota, 35-39, asst. prof, 39-43, assoc. prof, 43-48, prof, 48, chmn. soc. sci. div, 44-48; asst. res. dir, off. res. & intel, U.S. Dept. State, 46, intel. prog. adv, 47, chief external res. staff, 48-52, psychol. intel. & res. staff, 52-54, dep. dir. off. intel. res, 54; EXEC. DIR, AM. POLIT. SCI. ASN, 54- Asst. res. dir, res. & anal. br, Off. Strategic Serv, 45; lectr, Howard, 57-61; prof. lectr, Georgetown, 59- Consult, Nat. Ed. TV, 63-65. Ed. adv. polit. sci, Henry Holt & Co, 52-60, Holt, Rinehart & Winston, 60-67; mem. ed. adv. bd, Nat. Press, Inc, 67- Chmn, Cmt. War Time Changes Polit. Sci. Curriculum, 42-43; mem, Cmn. Presidential Campaign Debates, 63-64; President's Cmn. Registrn. & Voting Participation, 63-64; div. behav. sci, Nat. Acad. Sci-Nat. Res. Coun, 63-66, cmt. int. rels. behav. sci, 66-; Presidential Task Force Career Adv, 66. Polit. Sci. Asn. American government; comparative government; political theory. Publ: Target, the world, an analysis of world wide communist propaganda activities; Year of crisis; co-auth, Elections, U.S.A. Address: American Political Science Association, 1527 New Hampshire Ave. N.W, Washington, D.C. 20036.

KIRKPATRICK, DR. FORREST H(UNTER), b. Galion, Ohio, Sept. 4, 05. PERSONNEL PSYCHOLOGY. A.B. & LL.D, Bethany Col, 27; A.M, Columbia, 31. Prof, Bethany Col, 27-52, adj. prof, 52-58; V.PRES, WHEELING STEEL CORP, 52- Personnel gen. mgr, Radio Corp. Am, 41-46. Consult, War

Manpower Cmn, 43-45; U.S. Dept. State, 44; Civil Serv. Cmn, 45; U.S. Post Off. Dept, 53. Mem. bd. gov, West Virginia, 57-75. Psychol. Asn; Statist. Asn; Indust. Rels. Res. Asn; Acad. Polit. Sci; Acad. Polit. & Soc. Sci; Brit. Inst. Indust. Psychol. Address: P.O. Box 268, Wheeling, W.Va. 26003.

KIRKPATRICK, DR. JAMES J(OSEPH), b. Washington, D.C, Aug. 3, 22; m. 44; c. 2. INDUSTRIAL PSYCHOLOGY. A.B, Tennessee, 48, M.A, 49; Ph.D.(indust. psychol), Syracuse, 53. Asst. psychol, Tennessee, 48-49; psychol. serv. center, Syracuse, 49-51, proj. supvr, 51-52, lectr. indust. psychol, col. bus. admin, 50-52; proj. dir, Am. Inst. for Res, Pittsburgh, 52-54; v.pres, Harless & Kirkpatrick Assocs, Inc, 54-65; RES. ASSOC. PROF. PSYCHOL, WASH. SQ. COL, N.Y. UNIV, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A.A.F, 43-46, 1st Lt. AAAS; Psychol. Asn; Indust. Rels. Res. Asn. Personnel selection and training; test construction and statistical methods; leadership and human relations. Publ: Validation of a test battery for the selection and placement of engineers, Personnel Psychol; How to select a chamber of commerce executive, J. Am. Chamber of Commerce Exec; co-auth, Simplified tables for item analysis, Ed. Psychol. Measurement. Address: Dept. of Psychology, Washington Square College, New York University, Washington Square, New York, N.Y. 10003.

KIRKPATRICK, PROF. JEANE J(ORDAN), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

KIRKPATRICK, PROF. LYMAN BICKFORD, b. Rochester, N.Y, July 15, 16; m. 39; c. 4. POLITICAL SCIENCE. B.A, Princeton, 38; hon. M.A, Brown, 66. Ed, U.S. News Pub. Corp, 38-42 & 46-47; div. chief, Cent. Intel. Agency, 47-50, asst. to dir, 50-51, asst. dir, 51-53, inspector gen, 53-62, exec. dir, 62-65; PROF. POLIT. SCI. & UNIV. PROF, BROWN, 65- Lectr, Naval War Col, 65- Intel. C, U.S.A, 42-46, Maj. American security policy and intelligence operations. Publ: The real CIA, Macmillan, 68. Address: Dept. of Political Science, Brown University, Providence, R.I. 02912.

KIRKPATRICK, DR. ROBERT LAWHEAD, Mod. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KIRKSEY, PROF. C(HARLEY) D(ARWIN), b. Gilliland, Tex, May 6, 16; m. 41; c. 2. STATISTICS. M.S, North Texas State, 47; Ph.D, Texas, 57. PROF. BUS. ADMIN, LAMAR STATE COL, 46- U.S.N.R, 44-46, Lt. Statist. Asn. Business statistics; office machines. Publ: What office machines shall we teach?, Collegiate News & Views; An interindustry study of the Sabin-Neches area of Texas. Address: 455 Joseph St, Beaumont, Tex. 77705.

KIRN, BRIAN, O.F.M, b. Sigel, Ill, July 20, 11. ECONOMICS. A.B, St. Joseph Col.(Ill), 35; A.M, Catholic Univ, 41, Ph.D, 45. Instr, Catholic Univ, 44-48; prof. econ. & head dept, Quincy Col, 48-58; prof. relig. & chaplain, Briar Cliff Col, 61-66; DIR. CATH. STUDENT CENTER, LA. POLYTECH, 66- Econ. Asn. Reports on commercial banks. Address: Catholic Student Center, Louisiana Polytechnic Institute, Ruston, La. 71270.

KIRSCH, DR. ARTHUR DAVID, b. Washington, D.C, Oct. 21, 32; m. 57; c. 3. PSYCHOLOGY, STATISTICS. A.B, George Washington, 55; M.S, Purdue, 56, Ross fel, 56-57, Ph.D.(psychol), 57. Dir. tech. res, Gallup & Robinson, N.J, 57-58; res. psychologist, Nat. Security Agency, Md, 58-59, chief personnel data br, 59; res. mgr, Am. Res. Bur, 59-61; dir. life scis. div, Datatrol Corp, 61-62; assoc. dir. soc. res. proj, GEORGE WASHINGTON, 62-65, ASSOC. PROF. STATIST, 65- Assoc, George Washington, 58-61, lectr, 61-62. Consult, Dept. Ed, P.R; Int. Bus. Mach. Corp. U.S.N.R, 50-59. Psychol. Asn; Statist. Asn. Experimental and applied social psychology; design of experiments; scaling; factor analysis; computer methodology; automation in education; training research; manpower utilization; attitude measurement; educational research. Address: Dept. of Statistics, George Washington University, Washington, D.C. 20006.

KIRSCH, DR. BERTRAM, Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

KIRSCHENBAUM, DR. MARTIN JULES, Clin. & Exp. Psychol, see 10th ed, Soc. & Behav. Vols.

KIRSCHT, DR. JOHN P(ATRICK), b. Beatrice, Nebr, Jan. 17, 31; m. 53; c. 2. SOCIAL PSYCHOLOGY; B.A, Chicago, 51, M.A, 55; Ph.D, California, 59. Fel. behav. sci. proj, sch. pub. health, California, 59-61; study dir. orgn. change prog, inst. soc. res, MICHIGAN, 61-63, res. assoc. SCH. PUB. HEALTH, 63-66, ASSOC. PROF, 66- AAAS; Psychol. Asn; Pub. Health Asn. Methods and measurement in social psychology; organizational behavior and change; social science in public health; attitude and behavior change. Publ: Co-auth, Dimensions of authoritarianism, Univ. Kentucky, 67; auth, Science and fluoridation: an attitude study, J. Soc. Issues; co-auth, National study of health beliefs, J. Health & Human Behav, 66. Address: School of Public Health, University of Michigan, Ann Arbor, Mich. 48104.

KIRSHEN, PROF. H(IMY) B(ENJAMIN), b. London, Eng, July 26, 03; nat; m. 26; c. 1. ECONOMICS. B.S, Whitman Col, 26; A.M, Columbia, 29; fel, Wisconsin, 32-33, Ph.D, 37. Instr. econ, City Col. New York, 27-29; asst. prof, Maine, 29-37, assoc. prof, 37-38, prof, 38-57, head dept. bus, econ. & sociol, 37-57; dean sch. bus. admin, Massachusetts, 57-67; vis. prof. BUS. ADMIN, Col. Notre Dame, 67-68; PROF, SANTA CLARA, 68- Vis. prof, Wisconsin, 52, summer 60; Wesleyan, fall 64. Econ. Asn. Business law; labor arbitration and mediation. Address: Apt. 306, 347 Massol Ave, Los Gatos, Calif. 95030.

KIR-STIMON, DR. WILLIAM, b. Chicago, Ill, June 5, 10; m. 38; c. 3. CLINICAL & COUNSELING PSYCHOLOGY. Ph.B, Chicago, 32; M.A, Northwestern, 39, Ph.D.(ed), 55. Pub. rels. man, Columbia Broadcasting Syst, 40-42; info. specialist, U.S. Pub. Health Serv, 42; relocation officer, U.S. Dept. Interior, 42-46; counseling psychologist, Columbia Col.(Ill), 46-50; mem. faculty, Pestalozzi-Froebel Teachers Col, 50-53; counseling psychologist, Northwestern, 53-55; asst. prof. ed. & dir. guid. clin, Calumet Center, Purdue, 55-57; dir. personal counseling & chief clin. psychol, Rehab. Inst. Chicago, 57-66. Lectr, Indiana, 51-53; DePaul, 55-56; private practice, 55- Consult, Chicago Heart Asn, 62-; Kennedy Job Training Center, Palos Heights, Ill, 67- AAAS; Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn; Ed. Res. Asn. Rehabilitation of handicapped; executive selection and development; psychotherapy. Publ: Discards on trial, 65 & Dilemma, 66, Rehab. Inst. Chicago; Psychological services in a rehabilitation hospital, Psychol. Serv. Rehab. Disabled, UN, N.Y, 67. Address: Post House Medical Center, Richton Park, Ill. 60471.

KIRTLEY, DR. DONALD D, b. Lexington, Ky, Sept. 15, 38; m. 63; c. 1. PSYCHOLOGY. A.B, Miami (Fla), 60, M.S, 63, Maytag fel, 64-66, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, FRESNO STATE COL, 66- Psychol. Asn. Psychology of wit and humor; personality and political behavior; certain scales of Minnesota Multiphasic Personality Inventory and group therapy. Address: Dept. of Psychology, Fresno State College, Fresno, Calif. 93726.

KIRTLEY, DR. MALCOLM BRICE, b. Bell Flower, Mo, Jan. 31, 17; m. 38; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Missouri, 41, M.S.A, 49; Ph.D. (agr. econ), Illinois, 55. Instr. agr. econ, Missouri, 49-51; from asst. to asst. prof, ILLINOIS, URBANA, 51-58, ASSOC. PROF. AGR. ECON & EXTEN. ECONOMIST, 58- U.S.N.R, 43-45, Lt. Agr. Econ. Asn. Agricultural marketing, especially livestock marketing. Address: Dept. of Agricultural Economics, University of Illinois, Urbana, Ill. 61801.

KIRZNER, PROF. ISRAEL M(AYER), b. London, Eng, Feb. 13, 30; nat; m. 57; c. 1. ECONOMICS. B.A, Brooklyn Col, 54; M.B.A, N.Y. Univ, 55, Volker Fund fel, 56-57, Earhart Found. fel. & Ph.D.(econ), 57. Asst. prof. ECON, N.Y. UNIV, 57-61, ASSOC. PROF, 61- Am. Econ. Asn; Economet. Soc; Royal Econ. Soc. Epistemology and methodology of economics; microeconomic theory; history of economic thought. Publ: Economic point of view; Market theory and the price system, Van Nostrand, 63; An essay on capital, A. Kelley, 66. Address: Dept. of Economics, New York University, New York, N.Y. 10003.

KISE, DR. JOSEPH, b. Cottonwood, Minn, May 20, 93; m. 25. SOCIAL SCIENCE. B.A, St. Olaf Col, 16; M.A, Harvard, 28, Ph.D, 38. From chmn. div. soc. studies to EMER. DEAN, MOORHEAD STATE COL, 23- Teacher polit. sci, Fergus Falls State Jr. Col, 61-67. Consult, cmt. int. rels, Nat. Ed. Asn. Chmn. curriculum cmt. soc. studies, State Dept. Ed, Minn. Mem. Nat. Coun. Soc. Studies. U.S.N, 17-19. Political science; economics; history. Publ: Minnesota, the state and its government. Address: 924 24th Ave. S, Apt. 8, Moorhead, Minn. 56560.

KISER, DR. CLYDE V(ERNON), b. Bessemer City, N.C, July 22, 04. DEMOGRAPHY. A.B, North Carolina, 25, A.M. 27; Gilder fel, Columbia, 30-31, Ph.D.(sociol), 32. Res. fel, MILBANK MEM. FUND, 31-33, RES. ASSOC. & MEM. TECH. STAFF, 33- Adj. prof, N.Y. Univ, 45-56. Chmn. U.S. nat. cmt, Int. Union Sci. Study Pop, 58-61; mem, U.S. Census Adv. Cmt, 65-; Nat. Cmt. Vital & Health Statist, 65- Fel. Sociol. Asn; fel. Statist. Asn; Pop. Asn. Am.(pres, 52); Eugenics Soc.(pres, 62-). Statistics; psychometry. Publ: Group differences in urban fertility; co-auth, Fertility of American women; co-ed, Social and psychological factors affecting fertility. Address: Milbank Memorial Fund, 40 Wall St, New York, N.Y. 10005.

KISER, DR. GEORGE EDWARD, b. Pocatello, Idaho, May 8, 18; m. 42; c. 2. MARKETING. B.A, Stanford, 47; M.B.A, Texas, Austin, 48, Ph.D, 55. Asst. traffic mgr, Crown Central Petrol. Corp, Tex, 48-50; supvr. personnel, E.I. du Pont de Nemours & Co, 50-52; dean sch. bus, West Texas State, 55-56; dean sch. econ. & bus, Texas, El Paso, 56-59; head mkt. res, El Paso Natural Gas Co, 59-63; HEAD DEPT. MKT, ARKANSAS, 63- Summer fels, Standard Oil Co. Calif, 57; Ford Found, Univ. Chicago, 64; Nat. Asn. Purchasing Agents with Warner Elec. Brake & Clutch Co, Wis, 65. U.S.A.A.F, 40-45, Res, 45-, Col. Mkt. Asn. Industrial purchasing and marketing; marketing research. Publ: How to plan and control capital expenditures, Petrol. Refiner, 8/66; New responsibilities for purchasing management, 12/66 & Principles of reporting for purchasing, 12/67, Mid-West Purchasing Agent. Address: Dept. of Marketing, University of Arkansas, Fayetteville, Ark. 72701.

KISH, PROF. GEORGE, b. Budapest, Hungary, Nov. 24, 14; nat; m. 49; c. 1. GEOGRAPHY. A.B, Paris, 35, M.A, 37; M.A. & Sc.D.(geog), Budapest, 39; fel, Michigan, 40-43, Ph.D.(geog), 45. Instr. hist, MICHIGAN, 42, GEOG, 43-46, asst. prof, 46-50, assoc. prof, 50-56, PROF, 56-, curator of maps, Clements Library, 45-46. Fulbright lectr, Italy, 64; James Ford Bell lectr, Minnesota, 66; Eva G.R. Taylor lectr, Royal Geog. Soc, London, 68. Res. analyst, Off. Strategic Servs, 43-45. Chmn. U.S. Nat. Cmt, Int. Geog. Union, 65- Asn. Am. Geog. Political geography; history of geography and cartography; geography of Europe and Russia. Publ: Economic atlas of the Soviet Union; Introduction to world regional geography; Le problème dela population au Japon. Address: Dept. of Geography, University of Michigan, Ann Arbor, Mich. 48104.

KISH, DR. GEORGE B(ELA), b. Maspeth, N.Y, Feb. 22, 27; m. 56; c. 2. PSYCHOLOGY. A.B, Columbia, 48, M.A, 50; Ph.D, Duke, 54. Asst. prof. psychol, Col. of Puget Sound, 53-54; instr, Maine, 54-56, asst. prof, 56-59, assoc. prof, 59-61; post doctoral trainee clin. psychol, U.S. VET. ADMIN. HOSP, Richmond, Va, 61-62, staff clin. psychol, 62-65; CHIEF PSYCHOLOGIST, FT. MEADE, S.DAK, 65- U.S.N.R, 45-46. Psychol. Asn. Motivation; learning; theory and systems; stimulus-seeking in the human organism. Publ: Co-auth, Studies of sensory reinforcement, In: Book, Appleton, 66; Learning when the onset of illumination is used as reinforcing stimulus, J. Comp. Physiol. Psychol. Address: Dept. of Psychology, Veterans Administration Hospital, Fort Meade, S.Dak. 57741.

KISH, PROF. LESLIE, b. Poprad, Hungary, July 27, 10; nat; m. 47; c. 2. STATISTICS, SOCIOLOGY. M.A, Michigan, 48, Ph.D.(sociol), 52. Statistician, U.S. Dept. Agr, 41-47; res. statistician & head sampling sect, surv. res. center, MICHIGAN, 47-63, lectr, 50-55, assoc. prof, 55-60, PROF, 60-, PROG. DIR, SURV. RES. CENTER, 63- Mem. Interam. Statist. Inst. U.S.A.A.F, 42-45. Fel. Am. Statist. Asn; fel. Sociol. Asn; Pop. Asn; fel. Royal Statist. Soc. Social statistics; population distribution; survey sampling methodology. Publ: Survey sampling, Wiley, 65; Efficient allocation of

a multi-purpose sample, Econometrica; Some statistical problems in research design, Am. Sociol. Rev. Address: Survey Research Center, University of Michigan, Ann Arbor, Mich. 48106.

KISKER, PROF. GEORGE W, b. Cincinnati, Ohio, May 22, 12; m. 32. PSYCHOLOGY. B.A, Ohio State, 39, M.A, 40, Ph.D.(psychol), 43. PROF. PSYCHOL, CINCINNATI, 47-; PRES, BEHAV. SCI. ASSOCS, 62- Am. Psychol. Asn; Brit. Psychol. Asn; French Soc. Psychol. Clinical and industrial psychology. Publ: World tension: the psychopathology of international relations; The disorganized personality. Address: Dept. of Psychology, University of Cincinnati Graduate School, Cincinnati, Ohio 45221.

KISSICK, DR. WILL F(LOREN), b. Albia, Iowa, July 5, 97; m. 28. ECONOMICS, STATISTICS. B.S, Monmouth Col, 25; M.A, Iowa, 29, Ph.D.(econ, commerce), 37. Asst. prof. Eng, Jamestown Col, 27-29; asst. dir. bur. bus. res. & instr. econ, Kansas, 29-36; instr. in charge econ. & bus. admin. courses, Johnstown Center, Pittsburgh, 37-38; chmn. dept. econ. & bus. admin, Kalamazoo Col, 38-40; econ. analyst, U.S. Dept. Commerce, 40-42, regional bus. consult, 42-47; res. statistician, Minn. & Ont. Paper Co, 47-60, economist, 61-62; RETIRED. Chief economist, coop. bus. res. sta, Minnesota, 40-42. U.S.N, 17-21. Econmet. Soc. Statistical methods in economic and market research. Publ: Co-auth, Income data as a guide to marketing. Address: 5721 Clinton Ave, Minneapolis, Minn. 55419.

KISSINGER, PROF. HENRY ALFRED, b. Fuerth, Germany, May 27, 23; nat; m. 49; c. 2. INTERNATIONAL AFFAIRS. A.B, Harvard, 50, M.A, 52, Ph.D, 54. DIR, INT. SEMINAR, HARVARD, 51-, DEFENSE STUDIES PROG, 58-, assoc. prof. GOVT, 59-62, PROF, 62-, FACULTY MEM, CENTER INT. AFFAIRS, 60-, instr. govt, 54-55, lectr, 57-59, assoc. dir, center int. affairs, 57-60. Study dir, Coun. For. Rels, 55-56; dir, spec. studies proj, Rockefeller Fund, 56-58; Rockefeller Found. fel. Consult, Opers. Res. Off, 50-61; Psychol. Strategy Bd, 52; Opers. Coord. Bd, 55; weapons systs. eval. group, Joint Chiefs Staff, 56-60; White House, 61-62; U.S. Arms Control & Disarmament Agency, 61-67; Rand Corp, 61-; Dept. State, 65-; Dept. Defense, 67- U.S.A, 43-46, Res, 46-59, Capt. Polit. Sci. Asn; Am. Acad. Arts & Sci. Foreign policy; relationship of democratic ideas to the modernization of the newly independent countries. Publ: Necessity for choice: prospects of American foreign policy; The troubled partnership: a reappraisal of the Atlantic alliance, McGraw, 4/65; Problems of national strategy: a book of readings, Praeger, 11/65. Address: 6 Divinity Ave, Cambridge, Mass. 02138.

KISTE, DR. ROBERT CARL, b. Spencer, Ind, Aug. 26, 36; m. 61; c. 1. ANTHROPOLOGY. B.A, Indiana, 61; Nat. Defense Ed. Act fel, Oregon, 61-64, Woodrow Wilson fel, 65, Ph.D.(anthrop), 67. Asst. res. archaeologist, Utah, 59; teaching asst. anthrop, Indiana, 60-61; asst. state archaeologist, Ind. Hist. Soc, 61; res. asst. ANTHROP, Oregon, 64-66; ASST. PROF, MINNESOTA, MINNEAPOLIS, 67- U.S.A, 54-57. Anthrop. Asn. Oceanic ethnology; applied and social anthropology; culture change. Publ: Melanesian cults, Sci. of Man, 61. Address: Dept. of Anthropology, 200 Ford Hall, University of Minnesota, Minneapolis, Minn. 55455.

KITAGAWA, DR. EVELYN M(AE), b. Hanford, Calif, July 13, 20; m. 46. SOCIOLOGY. A.B, California, 41; Ph.D.(sociol), Chicago, 51. Res. assoc. SOCIOL, CHICAGO, 51-66, ASSOC. PROF. & ASSOC. DIR. POP. RES. & TRAINING CENTER, 66- Head statist. anal. unit, War Relocation Authority, 42-45; demographer, Scripps Found. Res. Pop. Probs, Miami (Ohio), 53-54. Sociol. Asn; Statist. Asn; Pop. Asn. Demography; statistics; labor force. Publ: Co-auth, Local community factbook for Chicago, 1950 & Suburbanization of manufacturing activity within standard metropolitan areas; auth, Standardized comparisons in population research, Demography, 64. Address: 5512 S. Woodlawn Ave, Chicago, Ill. 60637.

KITAY, PROF. PHILIP M(ORTON), b. Brooklyn, N.Y, May 6, 11; m. 50; c. 2. PSYCHOLOGY. A.B, City Col. New York, 32; M.A, Columbia, 35, Ph.D. (psychol), 44. Instr. psychol, Middlesex Jr. Col, 33-42; intern clin. psychol, N.Y. State Intern Training Prog, 42-43; asst. personnel technician, Adjutant Gen. Off, personnel res. sect, U.S. War Dept, 43-44; from instr. to asst. prof. PSYCHOL, Delaware, 44-46; asst. prof, ADELPHI, 46-52, assoc. prof, 53-63, PROF, 63-, acting chmn. dept, 54-55. Consult, Brooklyn Home for Children, 56- Distinguished teaching award, Adelphi, 66. Fel. Psychol. Asn; Soc. Proj. Tech. Psychodiagnostics; clinical and social psychology; attitude measurement. Publ: Radicalism and conservatism toward conventional religion; Comparison of the sexes in their attitudes and beliefs about women, Sociometry; co-auth, Symposium on reinterpretations of the Schreber case: Freud's theory of paranoia, Int. J. Psycho-Anal, 4/63. Address: Dept. of Psychology, Adelphi University, Garden City, N.Y. 11530.

KITCHELL, PROF. EUNICE, b. Como, Miss, Dec. 1, 08. ECONOMICS. A.B, Texas, 35, M.B.A, 42, Ph.D, 59. Mem. staff invest. anal. work, Texas, 41-42; asst. prof. statist, TRINITY (TEX), 42-50, assoc. prof. econ, 51-60, PROF. ECON. & BUS, 60-, CHMN. DEPT. ECON, 51- Business and economic statistics; factors affecting the price of petroleum. Address: Dept. of Economics, Trinity University, San Antonio, Tex. 78212.

KITCHEN, PROF. JAMES D(ONALD), b. Bayard, Iowa, Mar. 30, 20; m. 44; c. 4. POLITICAL SCIENCE. M.A, California, Los Angeles, 49, Ph.D.(polit. sci), 55; Doherty fel. to Latin Am, 53-54. Pub. admin. analyst, Bur. Govt. Res, California, Los Angeles, 48-55; asst. prof. POLIT. SCI, Southern Illinois, 55-57; SAN DIEGO STATE COL, 57-62, assoc. prof, 62-67, PROF, 67- Instr, Long Beach State Col, 51-52; Los Angeles State Col, 54-55; Fulbright lectr, Central Univ, Ecuador, 60-61; vis. prof, Forman Christian Col, W. Pakistan, 65-66. U.S.A.A.F, 43-46, Sgt. Polit. Sci. Asn; Soc. Pub. Admin. Public administration; metropolitan government; Latin American government and politics, especially Central American. Address: Public Administration Center, San Diego State College, San Diego, Calif. 92115.

KITCHIN, DR. JOSEPH A(RMSTRONG), b. Walhalla, N.Dak, May 1, 10; m. 43. POLITICAL SCIENCE. A.B, North Dakota, 31; A.M, Michigan, 34, fel, 36-41, Ph.D, 42. Asst. prof, Maryland, 41-43, Queens Col.(N.Y), 46-55; Am. consul & pub. affairs officer, U.S. Info. Serv, India, 55-57; PUB. AFFAIRS OFFICER & ATTACHE, Cairo, 57-59, Kabul, Afghanistan, 60-62; U.S. INFO. AGENCY, WASH, D.C, 62- Fulbright award, Thailand, 53-54. U.S.M.C, 43-46, Capt. Soc. Int. Law. International relations; American diplomacy; American foreign policy; international law of state boundaries and suits between member-states of federations. Address: 10020 Counselman Rd, Potomac, Md. 20854.

KITCHIN, PROF. PAUL C(LIFFORD), JR, b. Missoula, Mont, Oct. 18, 18; m. 42; c. 2. POLITICAL SCIENCE. A.B, Ohio State, 46; M.A, Kent State, 48. Instr, POLIT. SCI, KENT STATE, 48-50, asst. prof, 50-65, ASSOC. PROF, 65- Consult, Howland Twp, 63; Cities of Ravenna & Norwalk, 67. U.S.A.A.F, 41-45, S/Sgt. Polit. Sci. Asn. Municipal, state, and local government; incorporation and annexation problems; application of ombudsman principle to higher education. Address: Dept. of Political Science, Kent State University, Kent, Ohio 44240.

KITSUSE, PROF. JOHN I(TSURO), b. Imperial City, Calif, Aug. 23, 23; m. 62; c. 1. SOCIOLOGY. M.A, California, Los Angeles, 53, Ph.D, 58. Instr. SOCIOL, Washington (Seattle), 54-55; San Diego State Col, 55-58; from asst. prof. to PROF, NORTHWESTERN, 58- Sociol. Asn. Social structure and socialization; sociology of adolescence and deviance; juvenile delinquency. Publ: Collab, Delinquent boys: a critique & Managed casualty; auth, Societal reaction to deviant behavior, Social Probs. Address: Dept. of Sociology, Northwestern University, Evanston, Ill. 60201.

KITTRELL, PROF. FLEMMIE P, Foods, Nutrit, see 11th ed, Phys. & Biol. Vols.

KITTRIE, PROF. NICHOLAS N, b. S/S Bilgoray, Mar. 26, 28; U.S. citizen; m. 62; c. 2. COMPARATIVE LAW, CRIMINOLOGY. LL.B, Kansas, 50, M.A, 51; Raymond fel, Chicago, 54-55; LL.M, Georgetown, 63, S.J.D, 68. Res. asst. Near East. studies, London, 46-47; teaching asst. West. civilization, Kansas, 48-50, legal analyst, govt. res. center, 50-54; asst. to dir. legis. serv, Am. Bar Asn, 54-55, proj. dir, 55-58; legis. asst. to U.S. Senator Wiley, 59-60; counsel, antitrust subcmt, U.S. Senate, 60-62; legal practice, 62-64; assoc. prof. comp. law, AMERICAN UNIV, 64-67, PROF. CRIMINAL & COMP. LAW, WASH. COL. LAW, 67-, DIR. RES, 68- Nat. Defender Proj. res. grant, 65-67; Am. Asn. Law Schs. Coun. Prfnl. Responsibility res. grant, 66-68; lectr, Ottawa, int. sympos. comp. law, Ottawa, summer 66; Warsaw, summer 67. Consult, Kans. State Legis. Coun, 52-53; res. consult, center criminal studies, Chicago, 67-68. Mem. cmn. legal clin, Am. Asn. Law Schs, 67- Brit. Army, 44-45, Lt. Judicature Soc; Int. Inst. Space Law; Fed. Bar Asn. Criminal law and procedure; juvenile delinquency; alcoholism and drug addiction; psychopathy; corrections; comparative and international law. Publ: International legal responsibility for colonial people, Massada Pub, 51; co-auth, The mentally disabled and the law, Am. Bar Found, 59; auth, The deviants: liberty in the therapeutic state, (in prep). Address: 1716 Que St. N.W, Washington, D.C. 20009.

KITTROSS, PROF. JOHN MICHAEL, b. New York, N.Y, Apr. 25, 29; m. 51; c. 2. COMMUNICATIONS. A.B, Antioch Col, 51; M.S, Boston, 52; Ph.D. (commun), Illinois, 60. Asst, sch. pub. rels. & commun, Boston, 51-52; instr. propaganda, U.S. Army Psychol. Warfare Sch, Ft. Bragg, N.C, 53-54; telecommun, Southern California, 59-60, asst. prof, 60-63, assoc. prof, 63-68; PROF. COMMUN, TEMPLE, 68- Res. asst, inst. commun. res, Illinois, 55-59; vis. prof, Calif. State Col. Long Beach, 64 & 66. Ed, J. Broadcasting, Asn. Prfnl. Broadcasting Ed, 60- U.S.A, 52-54, Sgt. Asn. Ed. Journalism; Nat. Soc. Study Commun; Nat. Asn. Ed. Broadcasters. Mass communication, especially allocations and political economy; attitude change; communication effectiveness; broadcast education and journalism; educational broadcasting; propaganda and psychological warfare. Publ: Some attempts to develop an index of interest, J. Commun, 62; Some problems of broadcasting: a report, J. Broadcasting, 66; Meaningful research in ETV, In: The farther vision, Univ. Wisconsin, 67. Address: Dept. of Radio-Television-Film, School of Communications & Theater, Temple University, Philadelphia, Pa. 19122.

KIVETT, DR. MARVIN F(RANKLIN), Archaeol, Anthrop, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KIVITZ, DR. MARVIN STANLEY, Psychol, see 10th ed, Soc. & Behav. Vols.

KJELDERGAARD, DR. PAUL M, b. St. Paul, Minn, Jan. 1, 31; m. 53; c. 2. PSYCHOLOGY, BIOSTATISTICS. B.A, Minnesota, 54, M.A, 57, Ph.D, 60. Asst. student counseling, Minnesota, 54-55, PSYCHOL, 55-57, instr, 57-59; instr. & res. assoc, grad. sch. ed, Harvard, 59-61, asst. prof. & res. assoc, 61-65; ASSOC. PROF, PITTSBURGH, 65- Psychol. Asn. Human verbal learning; experimental design. Publ: Personality ratings as influenced by verbal stimuli: some negative findings, J. Personality; Psychology of language, Rev. Ed. Res; An experimental analysis of associative factors in mediated generalization, Psychol. Monogr. Address: Dept. of Psychology, School of Liberal Arts, University of Pittsburgh, Pittsburgh, Pa. 15213.

KJOLSETH, DR. J(ON) ROLF, b. Schenectady, N.Y, Oct. 9, 35; m. 65; c. 1. SOCIOLOGY. B.A, Colorado, 59, Nat. Inst. Ment. Health fel. & Ph.D.(psychol. sociol), 68; Cologne, spring, 60; Erlangen, fall, 60; Strasbourg, 61-62. Acting asst. prof. SOCIOL, CALIFORNIA, DAVIS, 65-67, ASST. PROF, 67- Sociol. Asn. Sociology of language and knowledge: symbolic interaction and communication, study of meaning, sociolinguistics. Publ: Participant observations on patient culture in a therapeutic-milieu setting, J. Ft. Logan Ment. Health Center, spring 64. Address: Dept. of Sociology, University of California, Davis, Calif. 95616.

KLAASEN, PROF. ADRIAN J, b. Holland, Mich, Aug. 3, 05; m. 33; c. 2. ECONOMICS, BUSINESS ADMINISTRATION. Ph.B, Chicago, 29; A.M, Mich. State, 57, Ph.D.(bus. admin), 61. Instr. ECON. & BUS, HOPE COL, 47-57, assoc. prof, 57-61, PROF, 62- Mkt. Asn; Mgt. Asn; Econ. Asn. Adam Smith's economics. Publ: Co-auth, Principles of marketing, 61 & Principles of advertising, 62, Pitman; auth, The invisible hand, Regnery, 66. Address: Dept. of Economics & Business, Hope College, Holland, Mich. 49423.

KLABZUBA, RICHARD W(ESLEY), Econ, see 10th ed, Soc. & Behav. Vols.

KLAGES, PROF. ROY ARTHUR, b. Cape Girardeau, Mo, Aug. 31, 16; m; c. 4. MARKETING, ECONOMICS. B.S, Missouri State Col, 38; Northwestern, 39; M.B.A, Texas, 45; Ph.D, St. Louis, 59. Supt, pub.schs, Mo, 38-43; from instr. to asst. prof. commerce, Southwest. Col, 43-46; assoc. prof. mkt. & head div, Miss. State, 46-55; instr. mkt. & econ, St. Louis, 55-59; assoc. prof. MKT, Detroit, 59-64; PROF. & CHMN. DEPT, STATE UNIV. N.Y. ALBANY, 64- Summers, auditor, Emerson Elec. Co, Mo, 42; Morrison-Knudsen Construct. Co, Calif, 43; participant, Harvard Case Studies Inst, 64; Ford Found. fel, Tulane, 65. Bus. consult, Detroit, 59-; consult, Nat. Bank Detroit, 62-63; Florist Tel. Delivery Asn. Mem. ed. cmt, Nat. Retail Merchants Asn, 66. Econ. Asn; Mkt. Asn. Retail store management. Publ: Air transportation in Latin America and its effects on marketing, Univ. Texas; Establishing a retail store in Mississippi; Analysis of the factors influencing the decentralization of the downtown department stores in St. Louis. Address: Dept. of Marketing, School of Business, State University of New York at Albany, 1400 Washington Ave, Albany, N.Y. 12203.

KLAIN, DR. MAURICE, b. Omaha, Nebr, Sept. 16, 18; m. 41; c. 3. POLITICAL SCIENCE. A.B, Omaha, 40; fel, Oberlin Col, 40-41, A.M, 41; fel. & Ph.D, Yale, 49. Instr, Conn. Col, 45-47; Amherst Col, 47-49; from asst. prof. to ASSOC. PROF. POLIT. SCI, CASE WESTERN RESERVE, 48- Instr, N.J. Col. for Women, Rutgers, 43. Polit. Sci. Asn. Party politics and pressure groups; political theory and comparative government. Address: Dept. of Political Science, Case Western Reserve University, Cleveland, Ohio 44106.

KLAISS, PROF. DONALD S(TANLEY), b. Kankakee, Ill, June 10, 06; m. 28; c. 1. SOCIOLOGY. A.B, Eureka Col, 28; Ph.D, Chicago, 34. Assoc. prof. SOCIOL, North Carolina, 38-47; ARIZONA, 47-55, PROF, 55- Vis. prof, Bennett Col, 36-38. Fel. Sociol. Asn; Geront. Soc. Marriage and the family; social gerontology. Address: Dept. of Sociology, University of Arizona, Tucson, Ariz. 85721.

KLAMAN, DR. SAUL B, b. Boston, Mass, Jan. 18, 20; m. 48; c. 1. ECONOMICS. B.S, Massachusetts, 41; M.A, Mich. State, 42; Ph.D, N.Y. Univ, 61. Econ. analyst, regional off, Off. Price Admin, Ohio, 42-43; agr. economist, bur. agr. econ, U.S. Dept. Agr, 43; sr. staff mem, capital mkts, Nat. Bur. Econ. Res, N.Y, 55-56; economist, div. res. & statist, bd. governors, Fed. Reserve Syst, 46-58; NAT. ASN. MUTUAL SAVINGS BANKS, 58-59, dir. econ. res, 59-66, V.PRES. & CHIEF ECONOMIST, 66- Lectr, N.Y. Univ, 62-; adj. prof, City Univ. New York, 66- Legis. consult, Cmnr. Fed. Housing Admin. & Adminstr. Housing & Home Finance Agency, D.C, 61; consult, U.S. Bur. Census, 58- Mem. U.S. Chamber Commerce Cmt. Econ. Policy, 60- U.S.N.R, 43-45, Lt.(jg). Econ. Asn; Statist. Asn; Finance Asn; Asn. Bus. Econ. Real estate finance and markets; capital markets; aspects of mutual savings banking industry. Publ: Postwar residential mortgage market; Volume of mortgage debt in the postwar decade; Postwar rise of mortgage companies. Address: Nathan Hale Dr, Stamford, Conn. 06902.

KLAMON, PROF. JOSEPH MARTIN, b. New York, N.Y, Feb. 12, 01; m. 34; c. 4. ECONOMICS. LL.B, Washington (St. Louis), 22; M.A, Yale, 24, J.D, 25, Ph.D, 27; Jenks fel, Harvard, 26-27. Assoc. prof. indust. econ, Carnegie Inst. Tech, 27-29; PROF. ECON. & INDUST. RELS, SCH. BUS. & PUB. ADMIN, WASHINGTON (ST. LOUIS), 29- Vis. lectr, Pittsburgh, 27-29. Consultant; arbitrator. Chmn, arbit. panels, War Labor Bd. U.S.A, 18-19. Econ. Asn; Arbit. Asn; Acad. Polit. & Soc. Sci. Industrial relations and arbitration; law; economic business and government. Publ: Incorporation of unions; Legal status of unions. Address: 8007 Stanford Ave, University City, Mo. 63130.

KLAPP, PROF. ORRIN E(DGAR), b. Chicago, Ill, Oct. 26, 15; m. 42; c. 2. SOCIOLOGY. M.A, Chicago, 40, Ph.D, 48. Asst. prof. SOCIOL, Carleton Col, 47-48; from asst. prof, to assoc. prof, SAN DIEGO STATE COL, 48-56, PROF, 56- Cultural attache, Am. Embassy, Athens, 67-69. U.S.N, 42-46. Fel. Sociol. Asn. American social types and the American character. Publ: Heroes, villains and fools: the changing American character, Prentice-Hall, 63; Symbolic leaders, public dramas and public men, Aldine, 65; Collective search for identity, Holt, 68. Address: Dept. of Sociology, San Diego State College, San Diego, Calif. 92115.

KLAPPER, DR. JOSEPH T(HOMAS), b. New York, N.Y, Jan. 11, 17; m. 49. SOCIOLOGY. B.S, Harvard, 36; M.A, Chicago, 38; Rockefeller Found. fel, Columbia, 46-47, Ph.D.(sociol), 60. From asst. to res. assoc, bur. appl. soc. res, Columbia, 46-48, 54-58; acting asst. prof. sociol, Washington (Seattle), 48-50; from proj. dir. to chief media eval. unit, int. broadcasting div, U.S. Intel. Activities, 51-54; consult, behav. res. serv, Gen. Elec. Co, 58-62; DIR. SOC. RES, COLUMBIA BROADCASTING SYST, INC, 62- Assoc, seminar on pub. commun, Columbia, 52-; hon. prof, Syracuse, 61; summer vis. asst. prof, Stanford, 50. Res. consult, Nat. Coun. Churches of Christ, 57-60; mass media cmt, Am. Jewish Cmt, 57- U.S.A, 41-46, Capt. AAAS; fel. Sociol. Asn; Rural Sociol. Soc; Asn. Pub. Opinion Res.(ed, 54-57; secy-treas, 57-61; v.pres. & pres. elec, 61-62; pres, 62-63); Soc. Sci. Study Relig; World Asn. Pub. Opinion Res. Mass and interpersonal communication; attitude change; public opinion; social science methodology. Publ: Children and television; Effects of mass communication; What we know about the effects of mass communication: the brink of hope, Pub. Opinion Quart. Address: 340 E. 57th St, New York, N.Y. 10022.

KLAPPER, DR. ZELDA S(OBEL), b. Jersey City, N.J, Sept. 17, 22; m. 48; c. 4. PSYCHOLOGY. Ph.D, N.Y. Univ, 47. Instr. psychol, Brooklyn Col, 43-48; psychologist, div. phys. handicapped, City Health Dept, New York, 49-51; asst. prof. psychiat, col. med, State Univ. N.Y. Downstate Med. Center, 51-56; psychologist, League Sch. for Seriously Disturbed Children, Brooklyn, 56-61; ASST. RES. PROF. PEDIAT, ALBERT EINSTEIN COL. MED, 61- AAAS; Psychol. Asn; Orthopsychiat. Asn. Child development; diagnosis training for children with learning problems; exceptional and brain-injured children. Publ: Co-auth, Relation of childhood characteristics to outcome in cerebral palsied, Develop. Med. & Child Neurol, 66; auth, Reading retardation: psychoeducational aspects, Pediat, 66; co-auth, A fourteen year follow-up study of intellectual change and stability, Am. J. Orthopsychiat, 67. Address: 4 Gerlach Place, Larchmont, N.Y. 10538.

KLARE, DR. GEORGE R(OGER), b. Minneapolis, Minn, Apr. 17, 22; m. 46; c. 3. PSYCHOLOGY. B.A, Minnesota, 46, M.A, 47, Ph.D.(psychol), 50. Instr, col. sci. lit. & arts, Minnesota, 48-50; staff psychologist, test div, Psychol. Corp, 50-51; res. assoc. & asst. prof. psychol, Illinois, 52-54; from asst. prof. psychol. & voc. counsr. to assoc. prof. & chmn. dept, OHIO, 54-62, PROF. PSYCHOL, 62-, DEAN COL. ARTS & SCI, 65- Consult, Resources Develop. Corp, Mich, 62- Baker award, 63-65. U.S.A.A.F, 43-45, 1st Lt. Psychol. Asn; Soc. Study Commun. Programmed instruction; computer-assisted instruction; readability; communication; psycholinguistics. Publ: Know your reader, Hermitage, 54; Measurement of readability, Iowa State Univ, 63; co-auth, Elementary statistics: data analysis for the behavioral sciences, McGraw, 67. Address: 42 Elmwood Place, Athens, Ohio 45701.

KLARMAN, PROF. HERBERT E(LIAS), b. Poland, Dec. 21, 16; nat; m. 67; c. 2. ECONOMICS. Pulitzer scholar, Columbia, 35-39, A.B, 39; Ph.D.(econ), Wisconsin, 46. Econ. analyst, nat. income div, U.S. Dept. Commerce, 46-47; asst. prof, Brooklyn Col, 47-48; asst. dir, State Hosp. Study, N.Y, 48-49; assoc. dir, Hosp. Coun. Greater N.Y, 49-51, 52-62; staff, Nat. Security Resources Bd, 51-52; assoc. prof. pub. health admin, HOPKINS, 62-65, PROF. PUB. HEALTH ADMIN. & POLIT. ECON, 65- Consult, Columbia, 50-51, lectr, sch. gen. studies, 54-; assoc. clin. prof, State Univ. N.Y. Downstate Med. Center, 58, prof. lectr, 65- Consult, Fedn. Jewish Philanthropies, 58-59; Interdept. Health Coun, 61; Soc. Security Admin, 65- Mem. health serv. res. study sect, Nat. Insts. Health, 62-66; cmt. chronic kidney disease, U.S. Bur. Budget, 66-67; Nat. Air Qual. Criteria Adv. Cmt, 67-70; Nat. Adv. Cmt. Health Statist, 67-71. U.S.A, 42-46, Capt. AAAS; Econ. Asn; Statist. Asn; Pub. Health Asn; Royal Econ. Soc. Economics of health; public finance; intergovernmental relations. Publ: Hospital care in New York City, 63 & The economics of health, 65, Columbia; Financing health and medical care, In: Preventive medicine, Little, 67. Address: 14 W. Cold Spring Lane, Baltimore, Md. 21210.

KLASS, DR. BERTRAND, Soc. Psychol, see 10th ed, Soc. & Behav. Vols.

KLASS, DR. MORTON, b. Brooklyn, N.Y, June 24, 27; m. 52; c. 3. CULTURAL ANTHROPOLOGY, ETHNOLOGY. B.A, Brooklyn Col, 55; Soc. Sci. Res. Coun. fel, Columbia, 57-58, Ph.D, 59. Mem. faculty, Bennington Col, 59-64; ASSOC. PROF. ANTHROP. & CHMN. DEPT, BARNARD COL, COLUMBIA, 65- Vis. asst. prof. & co-prin. investr, India Proj, Columbia, 62-65, mem. staff, South. Asian Inst, 67- Conducted res, Trinidad, W.I, 57-58 & West Bengal, 63-64. Fel. Anthrop. Asn; Asiatic Soc. Bengal. Cultures of Southern Asia, Indians overseas; culture change and persistence; community structure; social organization; folk religion. Publ: East Indians in Trinidad: a study of cultural persistence; Marriage rules in Bengal, Am. Anthropologist. Address: Dept. of Anthropology, Barnard College, Columbia University, New York, N.Y. 10027.

KLASSEN, PROF. PETER P, b. Russia, Oct. 17, 04; nat; m. 39; c. 3. SOCIOLOGY. B.A, Denison, 31; M.A, Chicago, 38, Ph.D, 49. Instr. sociol, Col. of Ozarks, 38-39; Pa. State, 39-41; soc. sci. analyst, U.S. Govt, 42-46; asst. prof. SOC. SCI, Florida, 47-48; assoc. prof, ILLINOIS, CHICAGO, 48-56, PROF, 56-, DIR. OFF. DEMOG. STUDIES, 67-, in charge dept. sociol. & anthrop, 62. Lectr, sch. financial pub. rels, Northwestern, 55- Consult, Governor's Cmn. Higher Ed, Ill, 55. Sociol. Asn; Statist. Asn. Demography; criminology; methods of research. Publ: Co-auth, Handbook of foreign nationalities & World patterns and world problems. Address: Office of Demographic Studies, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

KLASSON, PROF. CHARLES R, b. Cleveland, Ohio, Oct. 14, 30; m. 53; c. 3. ECONOMICS. B.S, Ohio State, 53, M.B.A, 56; fel, Indiana, 59, D.B.A, 60. Policy & procedure analyst, Sandia Corp, West. Elec. Co, 57-58; asst. prof. mgt, Arizona State, 60-61; col. bus. admin, Texas, 61-67; PROF. BUS. ADMIN, IOWA, 67- Faculty lectr, Indiana, 58-61, res. fel, 59-61; Excellence Fund res. grant, Univ. Texas, 63-65; NASA contract res, Univ. Missouri, 66-67. Consult, U.S. Dept. Army, Justice & Agr, 62- U.S.A.F, 54-56, 1st Lt. Econ. Asn; Soc. Gen. Syst. Res; Indust. Rels. Res. Asn; Acad. Mgt; Inst. Mgt. Sci. Organization theory; small and large group decision processes; organizational dynamics; total systems approach to studying the structure, function and processes of organizations; corporate planning and development. Address: Dept. of Business Administration, University of Iowa, Iowa City, Iowa 52240.

KLAUS, DR. DAVID J(OSEPH), b. Detroit, Mich, Dec. 23, 29. PSYCHOLOGY. A.B, Michigan, 51, M.A, 52; Ph.D.(psychol), Pittsburgh, 58. From asst. to lectr. PSYCHOL, PITTSBURGH, 53-66, ADJ. ASSOC. PROF, 66-; INST. DIR, AM. INST. RES, 65-, res. assoc. & sr. scientist, 54-65. Psychol. Asn; Ed. Res. Asn. Educational research; experimental and theoretical studies of learning; animal behavior; programmed instruction and teaching machines. Publ: Art of auto-instructional programming, Audio Visual Communications Rev, 61; An analysis of programming techniques, In: TMPL II: data and directions, Nat. Ed. Asn, 65; Strategies for the automation of instruction, ASTD Training Dirs. J, 65. Address: American Institutes for Research, 135 N. Bellefield Ave, Pittsburgh, Pa. 15213.

KLAUS, DR. RUPERT A(UGUST), b. Farrar, Mo, Sept. 2, 21; m. 49; c. 2. PSYCHOLOGY. B.S, Southeast Mo. State Col, 49; M.A, George Peabody Col, 53, Ph.D.(psychol), 59. Teacher, high sch, Mo, 49-54; psychologist, pub. schs, Tenn, 56-59; asst. prof. PSYCHOL, GEORGE PEABODY COL, 59-63, ASSOC. PROF, 63- Dir, Early Training Proj, Murfreesboro City Schs, Tenn, 61-66. U.S.A, 42-45. AAAS; Soc. Res. Child Develop; Psychol. Asn; Statist Asn. Pre-school programs for culturally deprived children. Publ: Co-auth, Before first grade, Teachers Col. Press, 66; auth, Murfreesboro preschool program for culturally deprived children, Childhood Ed, 9/65; co-auth, An experimental preschool program for culturally deprived children, Child Develop, 12/65. Address: Dept. of Psychology, George Peabody College for Teachers, Nashville, Tenn. 37203.

KLAUSMEIER, DR. H(ERBERT) J(OHN), b. Elberfeld, Ind, Nov. 4, 15; m. 46; c. 2. EDUCATIONAL PSYCHOLOGY. B.S, Indiana State, 40, M.S, 47; Ed.D. (ed. psychol), Stanford, 49. Instr. ed, San Francisco State Col, 49; assoc.

prof. ed. psychol, Colo. State Col. Ed, 49-52; asst. prof, WISCONSIN, 52-55, assoc. prof, 55-58, prof, 58-64, DIR. WIS. RES. & DEVELOP. CENTER FOR COGNITIVE LEARNING, 64- U.S.N, 41-46, Lt. Psychol. Asn; Ed. Res. Asn. Human learning; teaching-learning processes; research and development in education. Publ: Learning and human abilities: educational psychology & Teaching in the elementary school, Harper; co-auth, Analyses of concept learning, Academic, 66. Address: Wisconsin Research & Development Center for Cognitive Learning, University of Wisconsin, 1404 Regent St, Madison, Wis. 53706.

KLAUSNER, DR. SAMUEL Z(UNDEL), b. New York, N.Y, Dec. 19, 23; m. 64; c. 4. SOCIAL PSYCHOLOGY. B.S, N.Y. Univ, 47; M.A, Columbia, 50, Ed.D. (psychol), 51, Ph.D.(sociol), 63. Lectr. ed, City Col. New York, 51-52; coordinator dept. psychol, Hebrew Univ, 52-53; area res. fel, Ford Found, 53-54; clin. psychologist, Israel Govt. Ment. Hosp, 54-55; res. assoc, bur. appl. soc. res, Columbia, 55-61; study dir, Bur. Soc. Sci. Res, Inc, 61-67; ASSOC. PROF. SOCIOL, PENNSYLVANIA, 67- Lectr. relig, Columbia, 57-61; lectr. relig. & psychiat, Union Theol. Sem, 61-62. Consult, cmt. benefits environ. sci. serv. admin, Nat. Sci. Found-Nat. Res. Coun, 67- U.S.A.A.F, 43-45. AAAS; Psychol. Asn; Sociol. Asn; Soc. Sci. Study Relig.(exec. secy, 63-). Middle East area; social structure and personality; sociology of religion; methodology of social research. Publ: Psychiatry and religion, 64 & auth & ed, The quest for self control, 65, Free Press Glencoe; The study of total societies, Doubleday, 67. Address: 2307 N. 51st St, Philadelphia, Pa. 19131.

KLAUSNER, PROF. WILLIAM J(OHN), b. Neenah, Wis, Aug. 19, 16; m. 42; c. 2. SOCIOLOGY. A.B, Redlands, 41; M.A, Southern California, 48, Ph.D, 53. From instr. to PROF. SOCIOL, REDLANDS, 48- U.S.A, 42-45. Sociol. Asn. Family; criminology; social psychology. Publ: Co-auth, Marriage and family living; auth, Some social interactional correlates of marital role disagreement, and marital adjustment; co-auth, Marital adjustment of divorced persons in subsequent marriages, Soc. & Social Res. Address: 1309 E. College Ave, Redlands, Calif. 92373.

KLAWE, PROF. JANUSZ J, b. Piotrkow, Poland, Mar. 7, 11; Can. citizen; m. 43; c. 4. CARTOGRAPHY, GEOGRAPHY. Dipl. com, Grenoble, 32; M.A, Glasgow, 42. Managing dir. optics, Carl Zeiss Rep, Warsaw, Poland, 35-39; res. officer, Admin. Res. Lab, Teddington, Eng, 42-43; prod. mgr, Wooden Aircraft Ltd, Toronto, 43-44; time & study engr, Victory Aircraft, Malton, Can, 44-45; lectr. appl. physics, Toronto, 46-52; asst. chief cartographer, Can. Dept. Mines & Tech. Surv, Ottawa, 53-55; chief cartographer, Thomas Nelson & Sons Ltd, Edinburgh, Scotland, 55-63; PROF. GEOG, ALBERTA, 63- Lectr, Edinburgh, 55-63; dir. mapping, A.W. Gattrell Ltd, London, 61-63. Cartographer consult, Charles E. Merrill Books, Inc, Ohio, 63-67; Govt. Alberta, 64- Contrib. ed, Cartographer, 66. Polish Navy, 39-40; Polish Army, 42-43, 2nd Lt. Am. Soc. Photogram; Am. Cong. Surv. & Mapping; Am. Asn. Geog; Can. Inst. Surv; Can. Asn. Geog; Brit. Inst. Printing. Photographic imagery; cartographic symbolization of relief for different age groups of school children; statistical mapping of Alberta. Publ: Co-auth, Nelson Canadian school atlas, 60 & Canadian—a new dictionary of birds, 64, Nelson; auth, Photography in mapping, Ilford, 62. Address: Dept. of Geography, University of Alberta, Edmonton, Alta, Can.

KLEBAN, DR. EUGENIUSZ, b. Czernelica, Poland, Sept. 25, 09; m. 51. SOCIOLOGY, ELECTRICAL ENGINEERING. Dipl, Elec. Eng, Tech. Col, Warsaw, 31; Cracov Univ, 33; M.A, N.Y. Univ, 55, Ph.D.(sociol), 65. Elec. engr, Byrne Assocs. Inc, 52-62; lectr. SOCIOL, Brooklyn Col, City Univ. N.Y, 62-66; ASST. PROF. WASHINGTON SQUARE COL, N.Y. UNIV, 66- With British & Polish Armies, 39-45, Maj. Soc. Asn; Inst. Elec. & Electronic Engr. Industrial sociology; sociological theory; engineering controls. Address: 2 Horatio, St, New York, N.Y. 10014.

KLEBANER, PROF. BENJAMIN J(OSEPH), b. Brooklyn, N.Y, Oct. 30, 26. ECONOMICS. B.S, City Col. New York, 45; M.A, Columbia, 47, Soc. Sci. Res. Coun. fel, 49-50, Ph.D.(econ), 52. Lectr. ECON, CITY COL. NEW YORK, 47-49, 50-54, asst. prof, 54-61, assoc. prof, 61-66, PROF, 66- Instr, Rutgers, 51-54. Mem, Ford Found. Faculty Res. Seminar, 58; econ. adv, Second Nat. Bank Region, 66- U.S.A, 45-46. Econ. Asn; Econ. Hist. Asn. Industrial organization and public policy; American economic history; money and banking; bank merger policy. Publ: Bank Holding Company Act of 1956, South Econ. J, 58; Potential competition and the 1914 American antitrust legislation, Bus. Hist. Rev, 64; Lexington merger decision and its significance for commercial banking, Antitrust Bull, 66. Address: 322 Central Park W, New York, N.Y. 10025.

KLEBANOFF, DR. LEWIS BERNARD, b. Philadelphia, Pa, Nov. 27, 25; m. 50; c. 2. CLINICAL PSYCHOLOGY. A.B, Pennsylvania, 48; A.M, Tennessee, 49; Ph.D, Boston, 57; fel, Harvard, 57-58, S.M.Hyg, 58. Psychologist, Beaverbrook Guid. Center, 52-54, coordinator ment. health, 54-57, consult. ment. health & clin. psychol, 57-58; supvr. community ment. retardation centers, DIV. MENT. HYG, STATE DEPT. MENT. HEALTH, MASS, 58-63, ASST. DIR. MENT. RETARDATION, 63- Spec. lectr, sch. pub. health, Harvard, 58-, lectr, med. sch, 65-; adj. assoc. prof, sch. ed, Boston, 67. Consult, Boston Health Dept, 57-58; Robbins Speech & Hearing Clin, 58- Coordinator, Gov. Conf. Ment. Retardation, Mass, 59; mem. White House Conf. Children & Youth, 60; prfnl. adv. cmt, Warren Day Camp Emotionally Disturbed Children, Am. Friends Serv. Cmt, 60- Pub. Serv. award, Mass. Citizens Adv. Pub. Serv, 67. U.S.A.A.F, 44-46. Psychol. Asn; Pub. Health Asn; Orthopsychiat. Asn; Acad. Ment. Retardation (pres, 67-68); Asn. Ment. Deficiency. Reconceptualization of learning handicaps in children: habilitation of the mentally retarded; provision of comprehensive mental health and retardation services; application of psychological principles to education. Publ: Parental attitudes of mothers of schizophrenic, brain injured and retarded, and normal children, Am. J. Orthopsychiat, 29: 445-454; Facilities for mentally retarded: integrated or separate, but equal, Am. J. Pub. Health, 64; Out of mind-out of sight: some dilemmas of institutional care, Boston Univ. J. Ed, 10/64. Address: 4 Marlboro Rd, Lexington, Mass. 02173.

KLEBANOFF, DR. SEYMOUR G(EORGE), b. New Haven, Conn, Aug. 24, 16; m. 45. PSYCHOLOGY. A.B, Yale, 37, M.S, 39; Ph.D.(psychol), Northwestern, 47. Intern psychol, Worcester State Hosp, Mass, 39-41; chief clin. psychologist, Clarinda State Hosp, Iowa, 41-42; asst. res. dir, Northwestern, 46-47; lectr. psychol, 48-50; ASST. PROF. PSYCHOL, MED. COL, CORNELL, 51- Chief psychol. serv, Franklin D. Roosevelt Vet. Admin. Hosp, Montrose, N.Y, 50-, chief psychologist, Downey Vet. Admin. Hosp, 47-; chief consult. psychologist, N.Shore Health Resort, 47- Consult, Worcester City Hosp, Mass, 39-41. U.S.A.A.F, 42-45. Psychol. Asn. Psychological changes in organic brain disease; projective psychological test techniques; abbreviated test methods. Address: Audubon Dr, Ossining, N.Y. 10562.

KLECK, DR. ROBERT E(LDON), b. Wauseon, Ohio, Aug. 3, 37; m. 59. PSYCHOLOGY. A.B, Denison, 59; Ph.D.(psychol), Stanford, 64. Res. fel, Stanford, 63-64; ASST. PROF. PSYCHOL, Williams Col, 64-66; DARTMOUTH COL, 66- Res. grants, U.S. Pub. Health Serv, 66 & Asn. aid of Crippled Children, 67. Psychol. Asn; Soc. Exp. Social Psychol. Experimental social psychology; communication processes; interpersonal perception; effects of stigma conditions on face-to-face behavior; nonverbal communication; small group ecology. Publ: Co-auth, Dogmatism and responses to opinion consistent and opinion inconsistent information, J. Personal & Soc. Psychol, 67 & Congruence between the indicative and communicative functions of eye contact in interpersonal relations, Brit. J. Soc. & Clin. Psychol, 68; auth, Physical stigma and nonverbal cues emitted in face-to-face interaction, Human Rels, (in press). Address: Dept. of Psychology, Dartmouth College, Hanover, N.H. 03755.

KLEE, ALBERT J(OSEPH), b. Hackettstown, N.J, Jan. 4, 29; m. 54; c. 3. STATISTICS. B.S, City Col. New York, 50; M.S, N.Y. Univ, 56; M.B.A, Xavier, 59, M.S, 62. Control chemist, Emery Indust, Inc, 50-51; chem. engr, Philip Carey Mfg. Co, Inc, 51-52; Nat. Lead Co. of Ohio, 55-59, statist. technologist, 60-62; statistician, Procter & Gamble Co, 62-67; CHIEF OPER. ANAL, U.S. PUB. HEALTH SERV, 67- Adj. assoc. prof, Xavier (Ohio), 60- Chem.C, 52-54, 2nd Lt. Statist. Asn; Soc. Ichthyol. & Herpet. Statistical evaluation of data; design of experiments; industrial operations research. Address: National Center for Urban & Industrial Health, 222 E. Central Pkwy. Cincinnati. Ohio 45202.

KLEE, PROF. GERALD D('ARCY), Psychiat, Med, see 11th ed, Phys. & Biol. Vols.

KLEE, DR. JAMES B(UTT), b. New York, N.Y, Aug. 5, 16; m. 41, 59; c. 2. PSYCHOLOGY. B.S, Michigan, 38, M.A, 41, fel, 41-43, Ph.D.(psychol), 43. Asst. PSYCHOL, Michigan, 39-44, instr, 43-44; res. assoc, Wesleyan, 44-45, asst. prof, 44-46; Carnegie Inst. Tech, 46-49; Arizona, 49-50; vis. prof, Nebraska, 50-51; ASSOC. PROF, BRANDEIS, 51- Fulbright lectr, Allahabad, 63-64; prof, California, Santa Cruz, 67. Psychol. Asn. Comparative abnormal psychology; learning theory and adjustment; philosophy of psychology; oriental religion; history, especially Southwest expansion encounter development; aesthetics. Publ: Absolute and relative, Darshana, India, 64; Colors of Zen, Psychologia, Japan, 65; Art experience as part of the developmental process, J. Humanistic Psychol, 66. Address: 22 Dewey Rd, Lexington, Mass. 02173.

KLEEMEIER, PROF. ROBERT WATSON, Psychol, see 10th ed, Soc. & Behav. Vols, deceased 66.

KLEHR, PROF. HAROLD, b. Chicago, Ill, June 8, 21; m. 44; c. 1. PSYCHOLOGY. B.S, Northwestern, 46, M.S, 48, Ph.D.(psychol), 50. Asst. prof. & head psychol. sect, Chicago Med. Sch, 50-57; assoc. prof. PSYCHOL, ILLINOIS, CHICAGO CIRCLE, 57-65, PROF, 65-, DIR. STUDENT COUNSELING SERV, 63-, asst. dir. counseling, 57-63. Asst. chief clin. psychologist, West Side Vet. Admin. Hosp, 54-57. Psychol. Asn; Personnel & Guid. Asn. U.S.N, 43. Diagnostic psychological testing; individual and group psychotherapy. Address: 4435 W. Kirk, Skokie, Ill. 60076.

KLEIN, DR. A(BRAHAM), b. New York, N.Y, Aug. 4, 19; m. 54. CLINICAL PSYCHOLOGY. B.S.S, City Col. New York, 47; Johnson scholar, New Sch. Soc. Res, 47, M.A, 50; Ph.D.(psychol), N.Y. Univ, 57. Clin. psychol. trainee psychodiag. & psychother, Vet. Admin. Hosp, Lyons, N.J, 54-55, East Orange, 55-56, Vet. Admin. Regional Off, Newark, 56-57; staff psychologist, Bronx Munic. Hosp. Center, N.Y, 57-59; CONSULT. PSYCHOLOGIST, NEW YORK, 58- Instr, Albert Einstein Med. Col, 57-59; psychologist, L.I. Consultation Center, Forest Hills, N.Y, 58-62; psychotherapist, Ment. Health Consult. Center, 66- U.S.A, 42. Psychol. Asn; Soc. Proj. Tech. Psychodiagnostic testing and psychotherapy psychoanalysis; use and applicability of psychotherapy and psychoanalysis. Publ: Preliminary comparative study of some Szondi and Rorschach test variables; co-auth, Perceptual analysis of a Rorschach card, J. Personality. Address: 165 W. 20th St, New York, N.Y. 10011.

KLEIN, DAVID, b. New York, N.Y, Mar. 30, 19; m. 42; c. 2. SOCIOLOGY, SOCIAL PSYCHOLOGY. B.A, City Col. New York, 40; M.A, Columbia, 41; N.Y. Univ, 59-63. Col. ed, behav. sci, Henry Holt & Co, 46-48; exec. v.pres, Dryden Press, Inc, 48-56; exec. v.pres, behav. sci, Basic Books, Inc. 56-58; pub. dir, Asn. Aid Crippled Children, 58-64; PROF. SOC. SCI, MICH. STATE, 64- Vis. prof, Ryukyus, 66; Ford study grant accident res, Japan, 66; Nat. Safety Coun. cert. of recognition, 66. Ord. Dept, U.S.A, 42-45. Sociol. Asn. Techniques of interviewing in social research; social and psychological aspects of accident causation and risk-taking. Publ: Co-auth, Accident research: methods and approaches, Harper, 64, Interviewing: its forms and functions, Basic Books, 65 & Problems of change and development, Mich. State Univ, 67. Address: Dept. of Social Science, Michigan State University, East Lansing, Mich. 48823.

KLEIN, PROF. D(AVID) B(ALLIN), b. New York, N.Y, Apr. 15, 97; m. 23; c. 3. PSYCHOLOGY. A.B, City Col. New York, 18; A.M, Columbia, 21, Ph.D.(psychol), 30. Assoc. prof, Texas, 27-35, prof, 35-47; lectr, SOUTHERN CALIFORNIA, 47-48, dir. psychol. clin, 48-62, prof. PSYCHOL, 48-62, EMER. PROF, 62- Soc. Sci. Res. Coun. fel, Vienna, 30-31. Consult, Vet. Admin, 52- AAAS; Psychol. Asn. General, theoretical and abnormal psychology; history of psychology. Publ: Experimental induction of dreams during hypnosis; Abnormal psychology; Mental hygiene. Address: 11901 Sunset Blvd, Los Angeles, Calif. 90049.

KLEIN, DR. DONALD C(HARLES), b. Worcester, Mass, Aug. 10, 23; m. 46; c. 4. PSYCHOLOGY. A.B, Roosevelt, 47; Ph.D.(psychol), California, 52. Sr. clin. psychologist, Berkeley State Ment. Hyg. Clin, Calif, 50-53; instr. ment. health, sch. pub. health, Harvard, 54-62; exec. dir. human rels. center & assoc. prof. psychol, Boston, 62-67; PROG. DIR. CENTER COMMUNITY AFFAIRS, NAT. INST. APPL. BEHAV. SCI, WASH, D.C, 67- Exec. dir, Human Rels. Serv, Wellesley, Mass, 53-62; instr, sch. pub. health, Harvard, 62-63. Assoc. psychologist, Mass. Gen. Hosp, Boston, 55-67. Consult, sch. ment. health, Nat. Inst. Ment. Health, 64-, ment. health training, 66- AAAS; Psychol. Asn; Orthopsychiat. Asn; Pub. Health Asn. Preventive psychiatry; human relations. Address: 6418 Bannockburn Dr, Bethesda, Md. 20034.

KLEIN, DR. DONALD FRANKLIN, b. New York, N.Y, Sept. 4, 28; m; c. 4. PSYCHIATRY, PSYCHOPHARMACOLOGY. B.A, Colby Col, 47; N.Y. Univ, 47-48; M.D, State Univ. N.Y, 52. Res. assoc. psychiat, Creedmoor Inst, 57-59; HILLSIDE HOSP, 59-64, sr. staff psychiatrist, 65, DIR. RES, 65- Private practice psychiat, 56-67; assoc. vis. psychiatrist, Queens Hosp. Center, 66-; Nat. Inst. Ment. Health investr, 61-64. Dipl, Am. Bd. Psychiat. & Neurol, 59. U.S.P.H.S, 54-56, sr. asst. surg. AAAS; Psychiat. Asn; Col. Neuropsychopharmacol; Am. Med. Asn; Soc. Psychophysiol. Res. Psychiatric diagnosis; prediction of drug effect; treatment assessment. Publ: Co-auth, Diagnosis and drug treatment of psychiatric disorders, Williams & Wilkins, (in press); auth, Delineation of two drug responsive anxiety syndromes, Psychopharmacologia, 64; Importance of psychiatric diagnosis in prediction of clinical drug effects, Arch. Gen. Psychiat, 67. Address: Research Dept, Hillside Hospital, P.O. Box 38, Glen Oaks, N.Y. 11004.

KLEIN, PROF. EARL E(DWIN), b. New Orleans, La, Aug. 25, 01; m. 35. SOCIAL WELFARE. A.B, Elmhurst Col, 27; A.M, Washington (St. Louis), 29; B.D, Eden Theol. Sem, 30; Ph.D, Chicago, 38. Instr. sociol, Elmhurst Col, 30-33; asst. soc. serv, Chicago, 34-36; instr. soc. work, George Williams Col, 36-38; asst. prof. soc. admin, Iowa, 38-39; assoc. prof, Illinois, 39-42; PROF. SOC. WELFARE & DEAN SCH, LA. STATE, 42- Consult, White House Conf. Children & Youth, 50, 60; governor's cmt. ment. health training & res, La, 54-55; La. Youth Cmn, 58-66. Pub. Welfare Asn; Rehab. Asn; Asn. Soc. Workers. Social work education; social welfare services. Publ: Directory of welfare agencies in Champaign-Urbana, Illinois; Work accidents to minors in Illinois. Address: School of Social Welfare, Louisiana State University, Baton Rouge, La. 70803.

KLEIN, DR. FREDERICK LIONEL, b. New York, N.Y, Jan. 11, 34; m. 56; c. 5. PSYCHOLOGY. B.B.A, City Col. New York, 56; M.A, Maryland, 58, Ph.D. (psychol), 62. Clin. psychologist & assoc. prof. psychol, Gallaudet Col, 61-63, asst. dir, psychol. center for deaf, 63-65; ASST. CHIEF PSYCHOL. SERV, VET. ADMIN. HOSP, WASH, D.C, 65-, CO-DIR, WHITE OAK PSYCHOL. CENTER, 67- Lectr, univ. col, Maryland, 61-65. Psychol. consult, Md. Sch. for Deaf, 61-65; Harpers Ferry Job Corps Camp, 65-; unit on deafness, D.C. Dept. Voc. Rehab, 67- Group dynamics consult, Alexandria City Sch. Syst, 66- Psychol. Asn. Phenomenological aspects of deafness; psychotherapy process and outcome; group dynamics, process and outcome. Publ: Co-auth, Vocational interest patterns of psychology, psychiatry and social work, J. Counseling Psychol, 62; auth, Counseling process problems with deaf college students, Rehab. Record, 64. Address: 11103 Conti Place, Silver Spring, Md. 20902.

KLEIN, PROF. GEORGE, b. Prague, Czech, June 7, 28; nat; m. 53; c. 2. POLITICAL SCIENCE, ECONOMICS. B.A, Illinois, 51, M.A, 52, Ph.D.(polit. sci), 60. Instr. sociol, WESTERN MICHIGAN, 58-60, asst. prof. econ, 60-65, ASSOC. PROF. POLIT. SCI. & CHMN. SLAVIC STUDIES PROG, 65- Inst. regional studies res. grant, Burma, 60-61. U.S.A, 52-54. Polit. Sci. Asn; Asn. Adv. Slavic Studies. Political studies of Yugoslavia and Burma. Address: Dept. of Political Science, Western Michigan University, Kalamazoo, Mich. 49001.

KLEIN, DR. GEORGE S, b. Brooklyn, N.Y, July 15, 18; m. 42. PSYCHOLOGY. B.A, City Col. New York, 38; M.A, Columbia, 39, fel, 39-41, Ph.D.(psychol), 42. Clin. asst. prof. psychol, Menninger Found, grad. sch. psychol. & assoc. psychologist, Menninger Clin, Kansas, 47-53; assoc. prof. PSYCHOL, N.Y. UNIV, 53-58, PROF, 58-, DIR, CLIN. LAB, 53- U.S. Pub. Health Serv. res. grant, 48; Found. Fund res. fel, 58-60; consult, Austen Riggs Center, Mass. Ed, Psychol. Issues. U.S.A.A.F, 42-46. AAAS; Psychol. Asn. Relation between perceptual processes and personality structure; experimental psychology of perception; personality studies. Publ: Cognitive control and motivation, In: Assessment of human motives, Rinehart, 58; Consciousness in psychoanalytic theory, J. Am. Psychoanal. Asn, 59; co-auth, Cognitive control: a study of individual consistencies in cognitive behavior, Monogr, Psychol. Issues, 59. Address: Research Center for Mental Health, Washington Square, New York University, New York, N.Y. 10003.

KLEIN, DR. HERBERT SANFORD, Latin Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KLEIN, PROF. JOHN J(ACOB), b. Chicago, Ill, Aug. 30, 29; m. 53; c. 1. ECONOMICS. B.A, Northwestern, 50; A.M, Chicago, 52, Ph.D.(econ), 55. Res. assoc. ECON, Chicago, 52-55; instr, Far East Prog, Maryland, 56-57; asst. prof, Okla. State, 57-60; assoc. prof, Fordham, 60-65, PROF, 65-67; GA. STATE COL, 67- Bus. exchange fel, N.Y. Life Ins. Co, 64. Consult, State Dept. Commerce & Indust, Okla, 58. U.S.A, 55-57, Res, 57-, Sgt. Econ. Asn; Finance Asn. Money and credit; national income analysis; monetary policy and banking. Publ: German money and prices, 1932-44, In: Studies in the quantity theory of money; Money and the economy, Harcourt, 65; Price level and money denomination movements, J. Polit. Econ. Address: Dept. of Economics, Georgia State College, 33 Gilmer St, S.E, Atlanta, Ga. 30303.

KLEIN, DEAN MILTON M, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KLEIN, DR. PHILIP ALEXANDER, b. Austin, Tex, Oct. 8, 27; m. 61; c. 1. ECONOMICS. B.A, Texas, 48, M.A, 49; Ph.D, California, 58. Instr. ECON, Carleton Col, 55; instr, PA. STATE, 55-58, asst. prof, 58-61, ASSOC. PROF, 61-; MEM. RES. STAFF, NAT. BUR. ECON. RES, INC, 56- Fulbright fel. & teaching grant, France, 63-64; vis. prof, European Inst. Bus. Admin, France, 63-64, 66 & 67; summer vis. prof, Hawaii, 67. Econ. Asn. Consumer economics, money and banking; business cycles; industrial organization; American economic thought. Publ: Co-auth, Changes in the quality of consumer installment credit, Fed. Reserve Bd, Consumer Installment Credit; Consumer credit quality, Nat. Bur. Econ. Res, 67; auth, Employment benefits, Quart. J. Bus. & Econ. Address: Dept. of Economics, 320 Boucke Bldg, Pennsylvania State University, University Park, Pa. 16802.

KLEIN, DR. RICHARD G, b. Chicago, Ill, Apr. 11, 41; m. 67. ANTHROPOLOGY. A.B, Michigan, 62; Woodrow Wilson fels, Chicago, 62-63 & 65-66, Nat. Insts. Health trainee, 63-64, A.M, 64, Harper fel, 64-65, Ph.D.(anthrop), 66. ASST. PROF. ANTHROP, Wisconsin, 66-67; NORTHWESTERN, 67- Hunt fel, Wenner-Gren Found. Anthrop. Res, 66-67. Fel. Anthrop. Asn. Early man in central and eastern Europe. Publ: The Middle Paleolithic of the Crimea, Arctic Anthrop, 65; Chellean and Acheulean on the territory of the USSR, Am. Anthropologist, 66; Open-air Mousterian sites of south Russia, Quarternaria, 67. Address: Dept. of Anthropology, Northwestern University, Evanston, Ill. 60201.

KLEIN, DR. RICHARD M(ILTON), b. Boston, Mass, Oct. 30, 24. PSYCHOLOGY. B.A, N.Y. Univ, 48; M.A, New Sch. Soc. Res, 52; Ph.D.(psychol), Boston, 57. Instr. psychol, Oregon State, 57-58; psychologist, U.S. Naval Training Device Center, 58-59; staff psychologist, Int. Bus. Mach. Corp, 59-60; asst. prof. PSYCHOL, ADELPHI, 60-65, ASSOC. PROF, 65- Vis. scholar, Columbia Univ, 67-68. AAAS; Psychol. Asn; Philos. Sci. Asn. Learning; philosophy of science; history and systems of psychology; general experimental psychology. Address: Dept. of Psychology, Adelphi University, Garden City, N.Y. 11530.

KLEIN, DR. SHERWIN JARED, Physiol, Psychol, see 11th ed, Phys & Biol. Vols.

KLEIN, PROF. SIDNEY, b. New York, N.Y, July 23, 23; m. 53; c. 1. ECONOMIC STATISTICS. B.S, California, Los Angeles, 48; A.B, Southern California, 49; Ph.D, Columbia, 57. Instr. ECON, Columbia, 54-57; from asst. to assoc. prof, RUTGERS, 57-68; PROF. & CHMN. DEPT, CALIF. STATE COL. FULLERTON, 68- Lectr, Hofstra Col, 54; Hunter Col, 55-56; City Col. New York, 55-57; vis. prof, Hong Kong, 66-68. Summers, vis. asst. prof. & assoc, Columbia, 61-65, California, Los Angeles, 65. Dir. studies, Coun. Int. Econ. Coop. & Develop, Taiwan, 65-66. U.S.A, 43-46, Res, 42-43, 46-48, 49-, Maj. Econ. Asn. Development, especially statistical problems and techniques, population, agriculture, industry and other macroeconomic aspects; mathematics for business. Publ: The pattern of land tenure reform in East Asia after World War II, 58; The road divides: economics of Sino-Soviet rift, Int. Studies Group, 66; co-auth, Applied general statistics, Prentice-Hall, 67. Address: Dept. of Economics, California State College at Fullerton, Fullerton, Calif. 92631.

KLEIN, DR. THOMAS ARNOLD, b. Toledo, Ohio, May 16, 36; m. 62. STATISTICS, MARKETING. B.S, Dayton, 58; fel, Detroit, 58-60, M.B.A, 60; Ph.D. (agr. mkt), Ohio State, 64. Instr. mkt, Rockhurst Col, 60-61; asst. instr. agr. mkt, Ohio State, 61-64; asst. prof. statist. & mkt, TOLEDO, 64-67, ASSOC. PROF. STATIST. & MKT, & DIR. BUS. RES. CENTER, 67- Summers, Ford Found. faculty res. fel, Carnegie Inst. Tech, 65 & Repub. Steel faculty fel, Case Inst. Tech, 66. Econ. Asn; Mkt. Asn; Statist. Asn. Market research; research design; market and industrial organization; food and agricultural marketing. Publ: Co-auth, Structural change in Ohio food retailing, Ohio Agr. Exp. Sta, 64, A population projection for the Toledo regional area, Toledo Regional Area Plan for Action, 65 & Investment profit correlation, Univ. Michigan Bur. Bus. Res, 68. Address: Business Research Center, University of Toledo, Toledo, Ohio 43606.

KLEIN, DR. THOMAS M(ARTIN), b. Detroit, Mich, Aug. 9, 28; m. 58; c. 5. ECONOMICS. B.A, Michigan, 49, M.A, 51, Ph.D, 58; London Sch. Econ, 55-57. Asst. prof. econ, Hamilton Col, 57-59; economist, Int. Monetary Fund, D.C, 59-62; bd. gov, Fed. Reserve Syst, 62-66; CHIEF INDUST, COMMERCE & BANKING DIV, ECON. AFFAIRS DEPT, U.S. CIVIL ADMIN, RYUKYU ISLANDS, 66- Lectr, univ. col. div, Maryland, 64- U.S.A, 50-52. Am. Econ. Asn; Royal Econ. Soc. Balance of payments accounting; international finance; financial aspects of economic development. Publ: The United Kingdom balance of payments accounts, Econ. J, 12/64; The EEC's common agricultural policy and its impact on U.S. exports, Staff Econ. Studies, Fed. Reserve Bd, 7/66. Address: Economic Affairs Dept, U.S. Civil Administration of the Ryukyu Islands, APO San Francisco 96248.

KLEIN, PROF. WALTER H, b. Pittsburgh, Pa, Aug. 8, 22; m. 59; c. 2. INDUSTRIAL ADMINISTRATION. B.S, Pittsburgh, 44, M.A, 47, Ph.D, 54; fel, Pa. State, 49-50; Carnegie Inst. Tech, 50-51. Instr. econ. & bus. admin, St. Francis Col.(Pa), 47-49; assoc. prof. indust. admin. & chmn. dept, Villanova, 52-64, PROF. BUS. ADMIN, 64-, ASSOC. DEAN COL. COMMERCE & FINANCE, 67-, asst. dean, 62-67. Ford fels, Yale, 58-59, inst. basic math, Pennsylvania, 60-61. Consult, Am. Col. Life Underwriters, 60-; inst. planning coun, Villanova, 67-, mgt. workshops, 67- U.S.M.C, 43-46. Acad. Mgt; Finance Asn. Organization theory and administrative processes; microeconomic analysis; decision making theory; concept of a healthy organization; implications of democratic ideals for the administrative process; behavioral theory of the firm; organizational change; educational administration; operations analysis applied to education. Publ: Role of economic theory in policy making, Rev. Soc. Econ. Address: College of Commerce & Finance, Villanova University, Villanova, Pa. 19085.

KLEINDIENST, DR. MAXINE R, b. Rock Springs, Wyo, May 1, 33; m. 61. ANTHROPOLOGY, ARCHAEOLOGY. B.A, New Mexico, 55; Nat. Sci. Found. fels, Chicago, 55-59, M.A, 56, Ph.D.(anthrop), 59. RES. ASSOC. ANTHROP, CHICAGO, 61- Fieldworker, Africa, 56-; Nat. Sci. Found. fel, 59-60 & res. grant, Tanzania, 61-62, Nubia, 64-65. Fel. Anthrop. Asn. Old World prehistory, chiefly East, Central and Southern Africa; Acheulian occupation sites in Tanzania and Zambia; Pleistocene geology and paleoanthropology;

problems of typology and terminology. Publ: Variability within the late Acheulian assemblage in eastern Africa, S.African Archaeol. Bull; co-auth, Isimila: an Acheulian occupation site in the Iringa Highlands, Southern Highlands Province, Tanganyika, Proc. Fourth Pan-African Cong. on Prehist; Questions of terminology in regard to the study of Stone Age industries in Eastern Africa: cultural stratigraphic units, In: Background to evolution in Africa, Univ. Chicago, 67. Address: 1781 Cordast, Switz.

KLEINE, DR. HERMAN, b. New York, N.Y, Mar. 6, 20. ECONOMICS. B.S, N.Y. State Teachers Col.(Albany), 41; M.A, Clark, 42, Du Pont fel, 48, Ph.D. (econ), 51; Nat. War Col, 61-62. Asst. prof. econ, Worcester Polytech. Inst, 46-49; economist, Marshall Plan, Netherlands, 49-53; chief Yugoslav-French Area Div, Int. Coop. Admin. & For. Opers. Admin, 53-56; acting dep. regional dir, Europe & Africa, Int. Coop. Admin, 56-57, asst. dep. dir. opers, Wash, D.C, 59-62; dir, U.S. Opers. Mission to Ethiopia, 57-59, aid adv, U.S. Mission to UN, N.Y, 62-64; dep. asst. administr. Africa, U.S. AGENCY INT. DEVELOP, Wash, D.C, 64-67, DEP. DIR, RIO DE JANEIRO, 67- Mem, Spec. V.Presidential Mission to S.Vietnam, 61. U.S.A.F, 42-46, Res. 46-57, Capt. Econ. Asn. International economic development. Address: U.S. Agency for International Development, Dept. of Defense, Rio de Janeiro, APO, New York, N.Y. 09676.

KLEINER, PROF. JOSEPH L(ESTER), b. Chicago, Ill, Aug. 22, 02, BUSINESS ADMINISTRATION. B.S, De Paul, 26; Northwestern, 28, 29, 30; M.B.A, 52. Instr, col. commerce, De Paul, 29-39, registr, col. lib. arts & sci, 30-45, secy. faculty, 36-45; private bus, 45-47; fron asst. prof. bus. admin. to ASSOC. PROF. COMMERCE, WISCONSIN, 47-, COORDINATOR INDEPENDENT STUDY PROG. COMMERCE, 64- Phases of marketing, especially retailing. Publ: Contrib. to Sales Mgt. Mag, Opportunity Mag. Address: Dept. of Commerce, Extension Bldg, University of Wisconsin, Madison, Wis. 53706.

KLEINGARTNER, DR. ARCHIE, b. Gackle, N.Dak, Aug. 10, 36; m. 57; c. 2. INDUSTRIAL RELATIONS, LABOR ECONOMICS. B.A, Minnesota, 59; M.S, Oregon, 62; Ph.D.(indust. rels), Wisconsin, 65. ASST. PROF. INDUST. RELS, CALIFORNIA, LOS ANGELES, 64-, ASST. RES. ECONOMIST, INST. INDUST. RELS, 65- U.S.A, 54-56. Am. Indust. Rels. Res. Asn; Int. Indust. Rels. Asn. Labor relations, especially white-collar and professional workers; socio-technical systems. Publ: Ed, Contemporary labor issues, Wadsworth, 66; auth, Professionalism and salaried worker organization, Indust. Rels. Res. Inst, Univ. Wisconsin, 67; Nurses, collective bargaining and labor legislation, Labor Law J, 67. Address: Dept. of Industrial Relations, Graduate School of Business Administration, University of California, Los Angeles, Calif. 90024.

KLEINMAN, PROF. BERNARD, b. New York, N.Y, Apr. 18, 21; m. 53; c. 2. PSYCHOLOGY. B.S, Illinois, 49; Ph.D, Oklahoma, 55. Asst. to dir, dept. spec. ed, Oklahoma, 52-54; psychologist, Wyandotte County Child Guid. Center, Kans, 55-57; asst. prof. PSYCHOL, MISSOURI, KANSAS CITY, 57-60, assoc. prof, 60-64, PROF, 64-, DIR, PSYCHOL. TESTING LAB, 59-, chmn, cmt. Ph.D. in gen. ed, 64- Consult. & coordinator, joint clin. psychol. training prog, Greater Kansas City Ment. Health Found. & Nev. & Mo. State Hosps, 60- U.S.A.A.F, 42-45. Psychol. Asn; Soc. Appl. Anthrop. In service training in institutional settings. Publ: Clinical psychology training; co-auth, Psychodrama and empathic ability in the mentally retarded and Stress, coping procedures and personality. Address: Dept. of Psychology, University of Missouri, Kansas City, Mo. 64110.

KLEINMAN, DR. DAVID T(SEVI), b. Tel-Aviv, Israel, Sept. 3, 27; nat. ECONOMICS, FINANCE. B.S.C.E, Purdue, 50; M.B.A, Indiana, 51; scholar, Ohio State, 51-52, Ph.D, 53. Asst. to pres, Tech. Tape Corp, 53-57; gen. mgr, W. Ralston & Co, 53-55; Am. Tuck Corp, 55-57; instr. mgt, N.Y. Univ, 57-58; ASSOC. PROF. FINANCE, FORDHAM, 60- Soc. Sci. Res. Coun. fel. & vis. scholar, Harvard, 55-56; lectr, Columbia, 60-65; Sloan faculty fel, Mass. Inst. Tech, 65. Consult. economist, 56- AAAS; Econ. Asn; Polit. Sci. Asn; Sociol. Asn; Finance Asn. Industrial management; use of debt and leverage in maximizing net return on corporate capital; corporate diversification plans. Publ: Corporate growth through acquisitions; Some thoughts relating to organization theory. Address: Dept. of Finance, Fordham University School of Business Administration, Rose Hill Campus, Bronx, N.Y. 10458.

KLEINMUNTZ, DR. BENJAMIN, b. Cologne, Germany, Jan. 15, 30; nat; m. 55; c. 3. PSYCHOLOGY. B.A, Brooklyn Col, 52; Ph.D, Minnesota, 58. Clin. psychol, Nebraska, 58-59; asst. prof. PSYCHOL, CARNEGIE-MELLON UNIV, 59-63, assoc. prof, 63-67, PROF, 67- Nat. Insts. Health fel, sch. med, Yale, 67-68. Mil. Intel, U.S.A, 52-54, Res, 54-60. Psychol. Asn. Clinical decision making and computer simulation clinical judgments. Publ: Personality measurement, Dorsey, 67; Portrait of the computer as a young clinician, Behav. Sci; Personality test interpretation by digital computer, Science, 2/63. Address: 5236 Forbes Ave, Pittsburgh, Pa. 15217.

KLEINSCHMIDT, PROF. ARTHUR C(HARLES), b. Mankato, Minn, Dec. 2, 11; m. 46; c. 2. INDUSTRIAL ENGINEERING. B.B.A, Minnesota, 38; B.S, Ore. State Col, 43; M.S, Minnesota, 49; Ph.D.(eng. valuation), Iowa State Col, 53. Personnel mgr, Arctic Contractors, Alaska, 46; supvr. proj. control, Northwest Airlines, Minn, 47, 48; from instr. to assoc. prof. indust. eng, Iowa State Col, 48-53; assoc. prof, Florida, 54, asst. dean, 55-57, PROF. INDUST. ENG, 55-61; IOWA STATE, 61- Consult, RCA Data Processing, Patrick Air Force Base, 59-62 & 66. U.S.A, 41-45. Soc. Eng. Ed; Inst. Indust. Eng; Nat. Soc. Prfnl. Eng. Technical cost studies; production controls; manpower evaluations. Address: Dept. of Industrial Engineering, Iowa State University, Ames, Iowa 50010.

KLEINSORGE, PROF. PAUL L(INCOLN), b. Sacramento, Calif, May 14, 06; m. 41. LABOR ECONOMICS. A.B, Stanford, 27, Ph.D, 39; M.B.A, Harvard, 29. Asst. prof. ECON, Ore. State Col, 39-42; acting assoc. prof, Stanford, 47; PROF, OREGON, 48-, DIR. INST. INDUST. & LABOR RELS, 64- Arbitrator, 47- Price economist, U.S. Bur. Labor Statist, Calif, 42; wage rate analyst & wage stabilization dir, War Labor Bd, 43-46, regional chmn, 46-47. Econ. Asn; Indust. Rels. Res. Asn; Int. Soc. Labor Law & Social Legis. Industrial relations in Oregon; labor arbitration and legislation; fragmentation in labor organizations. Publ: Wages and salaries, Encyclop. Britannica, 67; Public interest as a criterion in settling labor disputes, Australian J. Indust. Rels, 4/64; co-auth, Pulp and paper rebellion, Indust. Rels, 10/66. Address: Dept. of Economics, University of Oregon, Eugene, Ore. 97403.

KLEISER, DR. JOHN R(AYMOND), b. Lebanon, Pa, Nov. 1, 19; m. 45; c. 3. PSYCHOLOGY. B.A, Pennsylvania, 41, M.A, 42, Ph.D.(psychol), 53. Dir. student personnel, Girard Col, 48-51; CHIEF CLIN. PSYCHOLOGIST, DEVEREUX SCHS, DEVON, 51- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.N, 42-46, Lt. Psychol. Asn. Psychodiagnosis of children and adolescents; training of psychology internes. Address: 103 Browning Lane, Rosemont, Pa. 19010.

KLEMER, PROF. RICHARD H(UDSON), b. Buffalo, N.Y, Feb. 6, 18; m. 40. SOCIOLOGY, PSYCHOLOGY. B.A, Pittsburgh, 39; fel, Fla. State, 50-53, Ph.D.(sociol, psychol), 53. Assoc. dir, expansion prog, Miami (Fla), 48-50; assoc. prof. & asst. to pres, Wesleyan Col, 53-57; dir, Am. Inst. Family Rels, 57-60; assoc. prof, family rels, Alabama, 60-62; Washington (Seattle), 62-67; PROF. CHILD DEVELOP. & FAMILY RELS, NORTH CAROLINA, GREENSBORO, 67- Clin. prof, Bowman Gray Sch. Med, 67- U.S.A.A.F, 43-46. Psychol. Asn; Sociol. Asn; Asn. Marriage Counsr. Marriage and the family; personality factors relating to marriage ability; social psychology. Publ: Man for every woman; Counseling in marital and sexual problems, Williams & Wilkins, 65; Factors of personality and experience which differentiate single from married women. Address: 1629 Milan Rd, Greensboro, N.C. 27410.

KLEMME, DR. RANDALL T(ELFORD), b. Belmond, Iowa, Mar. 17, 11; m. 37; c. 1. ECONOMICS. B.A, Grinnell Col, 32; Rockefeller Found. fel, Chicago, 40-41; Ph.D, Iowa State Col, 47. Publisher, Belmond Advertiser, Iowa, 32-33; instr, Grinnell Col, 33-34; land use specialist, Iowa Exten. Serv, 35-36; instr, Platteville State Teachers Col, 36; from asst. prof. to prof. agr. econ, Okla. Agr. & Mech. Col, 37-48, economist, agr. exp. sta, dir. agr-indust. develop. serv, 45-48, v.pres. col, 49-52; economist, Fed. Reserve Bank of Kansas City, Mo, 48-49; acting county dir, Tech. Coop. Admin, U.S. Dept. State, Pakistan, 52-53; rep, Ford Found, 53-55; dir, State Dept. Commerce & Indust, Okla, 55-58; dir. mkt, res. & area develop, NORTH. NATURAL GAS CO, 58-59, v.pres. mkt, 59-66, V.PRES. & CORP. ECONOMIST, 66- Gen.Ed. Bd. fel, 40-41; adj. prof, Omaha, 64- Cmnr, Int. Cong. Regional Econ, 58-; dir. & officer, Am. Indust. Develop. Coun. Econ. Asn; Mkt. Asn; Regional Sci. Asn; Acad. Arts & Sci. Interrelationship and development of economic resources at the community level; gas marketing. Publ: Role of private enterprise in the implementation of programs of regional development, Cong. Int. d'Econ. Regionale; Community development as forerunner of industrial development, Appraisal J. Address: Northern Natural Gas Co, 2223 Dodge St, Omaha, Nebr. 68102.

KLEMMER, DR. EDMUND T(HEOPHILUS), b. Boston, Mass, July 22, 24; m. 55; c. 2. PSYCHOLOGY. B.S, Webb Inst. Naval Archit, 44; M.A, Columbia, 49, Ph.D.(psychol), 52. Res. psychologist, oper. applns. lab, Bolling Air Force Base, 51-57; mgr. psychol. dept, Int. Bus. Mach. Res. Center, 58-62; MEM. TECH. STAFF, BELL TEL. LABS, 62- Vis. lectr, Am. Psychol. Asn-Nat. Sci. Found, 61. U.S.N.R, 43-46, Lt.(jg). Psychol. Asn; Human Factors Soc. Engineering psychology; information processing; motor skills. Publ: Simple reaction time as a function of time uncertainty & Perception of all patterns produced on a seven-line matrix, J. Exp. Psychol; Coordinality: a measure of man-machine coupling, Inst. Radio Eng. Trans. Address: Bell Telephone Labs, Holmdel, N.J. 07733.

KLERMAN, DR. LORRAINE V, b. New York, N.Y, July 10, 29; m. 54; c. 4. PUBLIC HEALTH, HEALTH EDUCATION. B.A, Cornell, 50; M.P.H, Harvard, 53, Dr.P.H, 62. Health educator, Passaic County Tuberc. & Health Asn, N.J, 52-53; exec. dir, Passaic County Heart Asn, 53-56; faculty assoc. res, grad. sch. soc. welfare, Brandeis, 62-65, coordinator community develop. & health ed, Peace Corps training prog, 64-65; ASST. PROF. PUB. HEALTH, SCH. MED, YALE, 65- Fel. Pub. Health Asn; Medical, psychological and social problems of the teenage pregnancies; bringing about administrative change in public health organization. Publ: Co-auth, auth, Industrial health education—potential and practice, Indust. Med. & Surg, 7/65 & Sumitomo Bull. Indust. Health, 4/66; co-auth, Problems of Puerto Ricans in a small city, Pub. Health Reports, 4/66. Address: 60 College St, New Haven, Conn. 06510.

KLETT, DR. WILLIAM GREGORY, b. St. Paul, Minn, Dec. 9, 29; m. 56; c. 5. PSYCHOLOGY. B.A, St. Thomas Col, 51; M.A, Loyola (Ill), 58, Ph.D.(psychol), 63. Clin. Psychologist, Cath. Charities Guid. Center, Chicago, Ill, 56-60; clin. psychol. trainee, U.S. VET. ADMIN. HOSPS, Hines & Downey, Ill, 60-63, psychologist, ST. CLOUD, MINN, 63-67, CHIEF PSYCHOL. SERV, 67- Asst. prof, St. John's (Minn), 65-67, assoc. prof, 67- Consult, St. Cloud Childrens Home, 63-65; Col. St. Benedict (Minn), 66- U.S.A, 52-54, Sgt. Psychol. Asn. Psychodiagnosis; psychotherapy; therapeutic communities; attitudes of psychiatric patients; dimensions underlying psychiatric treatment program effectiveness. Publ: An analysis of item order ... of 7 subtests of the WAIS, Newsletter Res. Psychol, 11/63; The effect of historically based interferences on ... psychiatric patients, J. Clin. Psychol, 10/66; co-auth, Demographic and prognostic characteristics of psychiatric patients ... J. Consult. Psychol, (in press). Address: Psychology Service, Veterans Administration Hospital, St. Cloud, Minn. 56301.

KLETTE, DR. IMMANUEL J, b. Pender, Nebr, Feb. 15, 18; m. 45; c. 2. INTERNATIONAL RELATIONS, ECONOMICS. B.A, Gettsburg Col, 39; Columbia, 39-41; Air War Col, 57-58; Nat. War Col, 61-62; Ph.D.(int. rels), Georgetown, 63. Jr. exec, W.R. Grace Co, 39-41, res. assoc. int. affairs, Coun. For. Rels, 65-66; mem. policy planning coun, Dept. of State, 66-67; SR. FEL. RES, BATTELLE MEM. INST, 67- U.S.A, 41-42; U.S.A.F, 42-67, Col. AAAS; Mgt. Asn; Soc. Int. Develop; Polit. Sci. Asn; Sociol. Asn; Acad. Polit. Sci; Inst. Aeronaut. & Astronaut; Acad. Polit. & Soc. Sci. National security; counterinsurgency; long-range planning; information research. Publ: From Atlantic to Pacific: a new interocean canal, Coun. For. Rels, Harper, 67. Address: Battelle Memorial Institute, 505 King Ave, Columbus, Ohio 43201.

KLETZKIN, DR. MILTON, Neurophysiol, see 11th ed, Phys. & Biol. Vols.

KLEVEN, PROF. BERNHARDT J, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KLIEBHAN, SISTER JOANNE MARIE O.S.F, b. Milwaukee, Wis, Mar. 1, 25. EDUCATION, PSYCHOLOGY. B.S, Loyola (Ill), 54; M.A, Columbia, 57; Ph.D.(spec. ed), Illinois, Urbana, 66. Teacher, Lt. J.P. Kennedy, Jr. Sch. Except. Children, Ill, 49-54, prin, 54-63; ASST. PROF. SPEC. ED, CARDINAL STRITCH COL, 66-, instr, 57-66. Consult, learning disabilities res. proj, pub. schs, St. Louis, Mo, 65-66; pub. schs, & Univ. Idaho, Pocatello, Idaho, 66. Psychol. Asn; Asn. Ment. Deficiency; Coun. Except. Children. Occupational training; job placement; and vocational adjustment of mentally retarded young adults. Publ: Occupational education for the young adult retardate, Nat. Catholic Ed. Asn. Bull, 60; Effects of goal-setting and modeling on job performance of retarded adolescents, Am. J. Ment. Deficiency, 67; Learning disabilities evaluation: a diagnostic-remedial approach, Spec. Ed. in Can, 67. Address: Dept. of Special Education, Cardinal Stritch College, 6801 N. Yates Rd, Milwaukee, Wis. 53217.

KLIEBHAN, SISTER M(ARY) CAMILLE, O.S.F, b. Milwaukee, Wis, Apr. 4, 23. PSYCHOLOGY. B.A, Catholic Univ, 49, M.A, 51, Ph.D, 55. Instr. ed. psychol, CARDINAL STRITCH COL, 52-55, ment. testing statist, 55-61, DIR. STUDENT TEACHING, 61-, ASST. PROF. MENT. HYG. & ED. PSYCHOL, 62-, V.PRES, 64-, CHMN. GRAD. DIV, 64-, head dept. ed, 62-67. Psychol. Asn. Problem-solving ability of elementary school children; mental retardation and reading; survey of institutions for mentally handicapped; psychology of exceptional children. Publ: Experimental study of arithmetic problem-solving ability of sixth grade boys. Address: Cardinal Stritch College, 6801 N. Yates Rd, Milwaukee, Wis. 53217.

KLIER, DR. SOL, b. New York, N.Y, Feb. 22, 26. PSYCHOLOGY. B.A, N.Y. Univ, 49, Ph.D.(psychol), 55. Asst. psychol, N.Y. Univ, 50-52; res. assoc, Queens Col.(N.Y), 52-53; psychologist & ed. specialist, U.S. Army Signal Corps, 55; assoc. res. scientist, N.Y. Univ, 56-57, res. scientist, 58-61; human factors specialist, Sperry Gyroscope Co, 61-65; RES. PSYCHOLOGIST, GRUMMAN AIRCRAFT CO, 65- Counselor, Queens Col.(N.Y), 59- AAAS; Psychol. Asn. Human problem solving; group processes and communications; human factors in complex man-machine systems. Address: Grumman Aircraft Co, S. Oyster Bay Rd, Bethpage, L.I, N.Y. 11714.

KLIETSCH, DR. RONALD G(EORGE), b. Duluth, Minn, June 6, 34. SOCIOLOGY. B.A, Minnesota, 56, M.A, 58, Ph.D.(sociol), 61. Instr. SOCIOL, Minnesota, 60-61; asst. prof, Iowa State, 61-64, assoc. prof, 64-65; mgr. opers. res. staff mkt, MINN. MINING & MFG. CO, 65-66, MGR. COMMUNICATIONS-LEARNING PROG, NEW PROD. 66- Part time adj. prof, Macalester Col. & Hamline, 66-67. Mem, N. Cent. Regional Cmt. Pop, 63-65. Sociol. Asn; Inst. Mgt. Sci; Opers. Res. Soc. Development of learning games and simulations; product development and marketing; psycho-social learning theory; social theory and research; management theory and administration of research. Publ: Impact of migration upon community life, U.S. Dept. Agr, 66; Covert behavior and clotheslines, J. Family Life, 66; Human behavior and games series, Minn. Mining & Mfg. Co, 66-67. Address: 3 M Co, New Products, 219-1, St. Paul, Minn. 55055.

KLINE, PROF. ARTHUR F, b. Anderson, Ind, Oct. 13, 19; m. 43; c. 2. SOCIOLOGY. A.B, Ball State, 46; fel, Indiana, 47-51, Ph.D.(sociol), 62. Asst. prof. SOCIOL, West. State Col. Colo, 51-55; from asst. prof. to assoc. prof, INDIANA STATE, 55-63, PROF, 63-, CHMN. DEPT, 64- Asst. prof, Florida, 59-60. U.S.A, 42-46, Capt. Sociol. Asn; Nat. Coun. Family Rels; Nat. Coun. Crime & Delinquency; Soc. Criminol; Soc. Study Social Probs. Family; minority groups; juvenile delinquency and criminology. Address: 76 Judith Lane, Terre Haute, Ind. 47802.

KLINE, PROF. EARL O(LIVER), b. Chester, Pa, Nov. 20, 21; m. 50. POLITICAL SCIENCE. A.B, Col. William & Mary, 43; fel, Vanderbilt, 46-47, A.M, 47; Compton fel, Princeton, 47-48, A.M, 51, Ph.D, 61. From asst. prof. to assoc. prof. POLIT. SCI, The Citadel, 49-64, PROF. & CHMN. DEPT, 64-67; GA. STATE COL, 67- Lectr, South. Bell Tel. Sch. Jr. Execs; vis. prof, Duke, 65-66. Ed. Consult, S.C. Dept. Ed, 66-67; election consult, S.C. Joint Legis. Cmt, 66-67. Polit. Sci. Asn; Soc. Int. Law. International politics; Soviet foreign policy; international law and organization. Address: Dept. of Political Science, Georgia State College, Atlanta, Ga. 30303.

KLINE, DEAN HIBBERD V(AN) B(UREN), JR, b. Leonia, N.J, Oct. 18, 13; m. 39; c. 2. GEOGRAPHY. A.B, Syracuse, 36; M.A, Wisconsin, 38, fel, 40-41, Ph.D.(geog), 41. Res. analyst, Library Cong, D.C, 41; geogr, Off. Strategic Serv, 42, chief map div, Algiers, 43-44, Eng, 44-45, map intel. sect, D.C, 45; cartog. bur, U.S. Dept. State, 46; asst. prof. GEOG, Syracuse, 46-48, assoc. prof, 49-59; PROF. & CHMN. DEPT, PITTSBURGH, 59-, ACTING DEAN GRAD. DIV. SOC. SCI, 66- Fulbright sr. res. scholar, Fourah Bay Col, W.Africa, 54-55. Consult, Int. Coop. Admin, W.Africa, 61. U.S.N.R, 43-46. Asn. Am. Geog; Am. Geog. Soc; African Studies Asn; S.African Geog. Soc. Land utilization in tropical Africa; African resources studies. Publ: Co-auth, Air photo interpretation, In: American geography, inventory and prospect & Geography of man; auth, Methodology for military evaluation and comparison of tropical terrain. Address: Dept. of Geography, University of Pittsburgh, Pittsburgh, Pa. 15213.

KLINE, DR. NED J(EROME), b. Ft. Wayne, Ind, Dec. 16, 29; m. 58; c. 3. EXPERIMENTAL PSYCHOLOGY. A.B, Hillsdale Col, 56; M.S, Purdue, 57, Ph.D.(psychol), 63. Psychometrist, Coldwater State Home & Training Sch, Mich, 58-59; res. asst. PSYCHOL, Purdue, 59-63; U.S. Pub. Health Serv. res. fel, Jackson Lab, Bar Harbor, Maine, 63-65; asst. prof, WIS. STATE, OSHKOSH, 65-67, ASSOC. PROF, 67- Asst. prof, Ripon Col, 66-67. AAAS; Psychol. Asn; Animal Behav. Soc. Early experience and development; behavioral genetics and physiological processes; basic electrophysiological regulatory mechanisms. Publ: Co-auth, The relationship between age and avoidance learning in the hooded rat, J. Comp. & Physiol. Psychol, 58; Effects of duration of infantile stimulation upon emotionality, 62 & Stimulus intensity verses critical periods: a test of two hypotheses of stimulation, 64, Can. J. Psychol. Address: Psychology Lab, Wisconsin State University, Oshkosh, Wis. 54902.

KLINE, DR. WILLIAM E(DWARD), b. Royersford, Pa, Mar. 16, 20. PSYCHOMETRICS, MATHEMATICS. B.S, Yale, 41, M.A, 42; Mass. Inst. Tech, 42; Ed. Testing Serv. fel, 49-50; A.M, Princeton, 50, Ph.D, 60. Meteorologist, Am. Airlines, 43-44; instr, Choate Sch, 44-49, guid. dir, 50-56; supvr. testing bd. ed, Baltimore County, 56-64; exec. secy, Wash. Pre-Col. Testing Prog, 64-67; DIR. TEST DEVELOP, CALIF. TEST. BUR, 67- Lectr, Loyola Col.(Md), 62-63; col. ed, Washington (Seattle), 64-67. Summer instr, Hopkins, 59-63. U.S.N, 42-43, Lt.(jg). Psychol. Asn; Personnel & Guid. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Construction of academic tests. Publ: Co-auth, Foundations of Advanced mathematics, Bobbs-Merrill arithmetic tests, Bobbs, 63 and Foundations of college mathematics, Am. Book Co, 68. Address: 3054 Stevenson Dr, Pebble Beach, Calif. 93953.

KLINEBERG, PROF. OTTO, b. Quebec, Que, Nov. 2, 99; nat; m. 33; c. 3. PSYCHOLOGY. B.A, McGill, 19, M.D, 25; M.A, Harvard, 20; Ph.D.(psychol), Columbia, 28; hon. Dr, Brazil, 59, Howard, 61. Nat. Res. Coun. fel, Sorbonne, Hamburg & Rome, 27-29; res. assoc. anthrop, Columbia, 29-31, instr. PSYCHOL, 31-37, asst. prof, 37-45; prof, São Paulo, 45-47; assoc. prof, COLUMBIA, 47-50, prof, 50-62, EMER. PROF, 62-; VIS. PROF, SORBONNE, 62- Prof, Sarah Lawrence Col, 34-37; Guggenheim fel, 35-36; dir. res. tensions proj, UNESCO, France, 48-49, head div. appl. soc. sci, 53-55. Pres, World Fedn. Ment. Health; Int. Union Psychol. Sci. Butler Medal, 50; Lewin Mem. Award, 56. Civilian with U.S. Dept. Army; Off. War Info; Fed. Commun. Cmn. Fel. AAAS; Sociol. Asn; Orthopsychiat. Asn; Inter-Am. Soc. Psychol.(pres). National differences; social psychology of attitudes. Publ: Race differences; Social psychology; The human dimension in international relations. Address: 43 bis Blvd. du Château, 92 Neuilly, Seine, France.

KLINEBERG, DR. STEPHEN LOUIS, b. New York, N.Y, Mar. 12, 40; m. 62; c. 2. SOCIAL PSYCHOLOGY. A.B, Haverford Col, 61; Woodrow Wilson fel, Harvard, 61-62, Ph.D.(soc. psychol), 66; dipl. psychopath, Paris, 63. Instr. soc. rels, Harvard, 65-66; ASST. PROF. SOC. PSYCHOL, PRINCETON, 66-, bicentennial preceptorship, 66-69. Psychol. Asn; Sociol. Asn; Acad. Polit. & Soc. Sci. Individual time perspectives; social psychological aspects of social change. Publ: Changes in outlook on the future between childhood and adolescence 67 & Future time perspective and the preference for delayed reward, 3/68, J. Personality & Soc. Psychol. Address: Dept. of Sociology, Princeton University, Princeton, N.J. 08540.

KLING, PROF. J(ULIUS) W(ILLIAM), b. Brooklyn, N.Y, Dec. 22, 22; m. 45; c. 4. PSYCHOLOGY. B.A, Illinois, 48, M.A, 49, Ph.D, 51; hon. M.A, Brown, 58. Asst. PSYCHOL, Illinois, 48-51; from instr. to assoc. prof, BROWN, 51-64, PROF. & CHMN. DEPT, 64- Mem. small grants study sect, Nat. Inst. Ment. Health, 64-68. U.S.A, 42-47, 1st Lt. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc. Psychophysiology of learning and motivation. Publ: Generalization of extinction of an instrumental response to stimuli varying in the size dimension, J. Exp. Psychol, 11/52; co-auth, Amount of reinforcement and free operant responding, J. Exp. Anal. Behav, 4/61; Comparison of electrical brain stimulation and food reinforcement in discrimination and generalization situations, J. Comp. & Physiol. Psychol, 2/68. Address: Hunter Lab, Brown University, Providence, R.I. 02912.

KLING, PROF. MERLE, b. Poland, June 15, 19; nat; m. 48; c. 1. POLITICAL SCIENCE. Fel. & Ph.D, Washington (St. Louis), 49. Instr. POLIT. SCI, WASHINGTON (ST. LOUIS), 46-50, asst. prof, 50-54, assoc. prof, 54-61, PROF, 61-, DEAN FACULTY ARTS & SCI, 66- Vis. prof, Illinois, 61; res. assoc, center int. studies, Princeton, 64-65. Consult, Fund Adult Ed, 60-61. U.S.A, 42-45, Sgt. Polit. Sci. Asn. Comparative politics; Latin American area studies. Publ: The Soviet theory of internationalism; A Mexican interest group in action; co-auth, Social science research on Latin America, Columbia, 64. Address: Dept. of Political Science, Washington University, St. Louis, Mo. 63130.

KLINGBERG, PROF. FRANK L(eROY), b. Elmo, Kans, July 23, 08; m. 36; c. 1. POLITICAL SCIENCE. M.A, Kansas, 36; fel. & Ph.D.(polit. sci), Chicago, 39. Assoc. prof. hist. & polit. sci, Millikin, 39-43; assoc. prof. polit. sci. & int. rels. & chmn. dept, Knox Col, 43-46; assoc. prof. POLIT. SCI, SOUTHERN ILLINOIS, 46-51, PROF, 51- Polit. Sci. Asn; Soc. Int. Law. American foreign policy; international relations and law. Publ: Studies in measurement of the relations among sovereign states, Psychometrika; Historical alternation of moods in American foreign policy, World Polit; Predicting the termination of war: battle casualties and population losses, J. Conflict Resolution, 6/66. Address: 310 S. Oakland St, Carbondale, Ill. 62901.

KLINGELHOFER, PROF. EDWIN L(EWIS), b. Buffalo, N.Y, Oct. 4, 20; m. 46; c. 2. PSYCHOLOGY. B.S, Buffalo, 46; Ph.D.(psychol), Iowa, 53. Asst, Iowa, 50-53; asst. prof. PSYCHOL, SACRAMENTO STATE COL, 53-56, assoc. prof, 56-61, PROF, 61-, ASSOC. DEAN SCH. ARTS & SCI, 67- Vis. prof, Univ. Col, Dar es Salaam, 65-67. Consult, Stanford Res. Inst, 55-56; State Personnel Bd, Calif, 55-60. U.S.A, 42-46, Capt. AAAS; Psychol. Asn; Personnel & Guid. Asn. Psychological measurement and testing; personnel research; African studies; cross cultural psychology; research in higher education. Publ: A bibliography of psychological research and writings on Africa, Scandinavian Inst. African Studies, 67. Address: Dept. of Psychology, Sacramento State College, 6000 J St, Sacramento, Calif. 95819.

KLINGER, DR. BURTON I(RA), b. New York, N.Y, Nov. 10, 37; m. 65. PSYCHOLOGY. B.A, Hobart Col, 59; M.S, Pa. State, 61, Ph.D.(psychol), 66. ASST. PROF. PSYCHOL, Pa. State, 66-67; NEW HAMPSHIRE, 67- Psychol. Asn. Personality; social psychology; conditioning. Address: 4 Main St, Durham, N.H. 03824.

KLINGER, DR. ERIC, b. Vienna, Austria, May 23, 33; nat; m. 60. PSYCHOLOGY. A.B, Harvard, 54; Ph.D, Chicago, 60. Asst. psychol, Asn. Am. Med. Cols, 55-57, res. assoc, 57-60; clin. psychol. trainee, Vet. Admin, 57-60; instr. PSYCHOL, Wisconsin, Madison, 60-62; asst. prof, MINNESOTA, MORRIS, 62-63, ASSOC. PROF, 63- AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc; Biometric Soc. Structure and functions of fantasy and other ideation; modeling effects on fantasy and identification; motivational theory; nonlinear combinations of personality data in predicting behavior. Publ: Co-

auth, Diagnosis of schizophrenia by Rorschach patterns, J. Proj. Tech. & Personality Assessment, 65; auth, Fantasy need achievement as a motivational construct, Psychol. Bull, 66; auth, Modeling effects on achievement imagery, J. Personality & Soc. Psychol, 67. Address: Dept. of Psychology, University of Minnesota, Morris, Minn. 56267.

KLINGER, DR. M. ROBERT BOEKELOO, b. Kalamazoo, Mich, Mar. 3, 14; m. 41; c. 3. COUNSELING. INTERNATIONAL AFFAIRS. A.B, West. State Teachers Col, 36; M.A, American Univ, 37; Ph.D.(guid, counseling), Michigan, 61. Asst. counsr. for students, INT. CENTER, MICHIGAN, 40-54, counsr, 54-64, acting dir, 64-66, DIR, 66- Consult, U.S. Off. Ed, 60; Agency Int. Develop, 62; returned Peace Corps vol, 65; field serv. consult, Nat. Asn. For. Student Affairs, 65- Nat. Asn. For. Student Affairs (pres). A determination of the factors of moral values cross culturally and a measure of the significance of difference between foreign student and American student groups on expressed moral values. Publ: Manual of immigration for foreign student advisors, Nat. Asn. For. Student Affairs, 66; auth, Moral values across cultures, 10/61 & co-auth, Moral values across cultures, a factorial study, 5/64, Personnel & Guid. J. Address: International Center, University of Michigan, 603 E. Madison St, Ann Arbor, Mich. 48104.

KLINGHAMMER, DR. ERICH, b. Kassel, Germany, Feb. 28, 30; m. 58; c. 1. ETHOLOGY, BEHAVIORAL SCIENCE. A.B, Chicago, 58, Ph.D.(psychol), 62. Instr. PSYCHOL, CHICAGO, 63-65, ASST. PROF, 65- U.S.A, 53-55. AAAS; Ornith. Union; Animal Behav. Soc. Animal and human ethology; imprinting; effects of early experience on adult behavior; behavior mechanisms in vertebrates; development and motivation. Publ: Parental feeding in ring doves: innate or learned?, Zeitschr. F. Tierpsychol, 64; Imprinting in an altricial bird: the blond ring dove Csreptoperia risoria, Science, 64; Factors affecting choice of mate in altricial birds, In: Early behavior, Wiley, 67. Address: Dept. of Psychology, University of Chicago, Chicago, Ill. 60637.

KLINGMAN, PROF. HERBERT F(REDERICK), b. Watertown, Wis, July 14, 06; m. 37. ECONOMICS. B.A, Wisconsin, 29, M.A, 30, Ph.D.(econ), 49; M.B.A, Harvard, 32. Statistician & analyst, Great Atlantic & Pac. Tea Co, 32-34, div. analyst & head res, mid. west. div, 34-38; prof. finance, col. commerce, Notre Dame, 38-42; asst. dir, gen. statist. staff & chief prog. & statist br, gen. indust. equipment div, War Prod. Bd, 42-45; prof. bus. admin, col. bus. admin, Arkansas, 47-50, head dept. mkt, 48-50; res. projs. supvr, bus. info. div, Dun & Bradstreet, Inc, 50-52; res. dir, Controllership Found, Inc, 53-59; PROF. BUS. ADMIN, SCH. BUS. ADMIN, WISCONSIN, MILWAUKEE, 66- Consult, Nat. Inst. Develop. Admin, Bangkok, Thailand, 66-68. Econ. Asn; Mgt. Asn; Soc. Adv. Mgt; Financial Execs. Inst; Investment Analysts Soc. Am. Corporation finance and controllership; business policy; institutional economics; structure of industry in Thailand; long-range planning and control in Thai electric utilities. Publ: Management planning and control; Corporate controller; Descriptive bibliography: business policy, planning and control, Univ. Wisconsin. Address: 4506 W. Deer Park Rd, Oconomowoc, Wis. 53066.

KLINGSPORN, DR. MELVERN J, b. Polk, Nebr, Jan. 19, 34; m. 57; c. 4. PSYCHOLOGY. B.A, Nebraska, 57, M.A, 63, Ph.D, 65. ASST. PROF. PSYCHOL, Nebr. Wesleyan, 63-65; WICHITA STATE, 65- Psychol. Asn. Memory limitations and coding strategies in concept identification. Publ: Co-auth, Near optimal processing of information during concept identification, Psychonomic Sci, 12/67. Address: Dept. of Psychology, Wichita State University, Wichita, Kans. 67208.

KLISE, PROF. EUGENE S(TORM), b. Belmont, Mass, Feb. 11, 08; m. 48; c. 2. ECONOMICS. B.A, Whitman Col, 29; M.A, Washington (Seattle), 39; Ph.D, Harvard, 50. Instr. econ, Williams Col.(Mass), 41-43; import mgr, Yangtze Trading Corp, 45-47; asst. prof. finance, Hofstra Col, 47-50; assoc. prof. ECON, MIAMI (OHIO), 50-56, PROF, 56- Fel, Chase Manhattan Bank, 60. U.S.A.A.F, 43-45. Econ. Asn; Finance Asn. Money and banking; business cycles; corporation finance. Publ: Money and banking, South-Western Pub. Address: Oakhill Dr, Oxford, Ohio 45056.

KLISTON, DR. THEODORE S, b. Brooklyn, N.Y, Jan. 14, 13; m. 40; c. 2. FINANCE. B.B.A, City Col. New York, 33; M.B.A, N.Y. Univ, 36; Bond Club scholar, Columbia; Ph.D, American Univ, 56. Sr. invest. analyst & economist, Clinton Gilbert & Co, 37; A.L. Stamm & Co, 38-42; chief economist, N.Y. region War Manpower Cmn, 43-46; instr. invest. anal, adv. finance & statist, Hofstra Col, 47-50; chief metals & minerals br, Nat. Prod. Authority, 51, 52; chief prog. anal. br, wage & hour div, U.S. Dept. Labor, 50, 53-54; financial analyst, Securities & Exchange Cmn, 55-60; v.pres, Kratter Corp, 60-61; Financial Planning Corp, 61-62; pres, Todd Industs, Inc, 62-64; ASSOC. PROF. FINANCE, FLORIDA ATLANTIC, 64- Chief, budget & statist. sect, Vet. Admin, Brooklyn, N.Y, 47-50; mem. faculty, eve. div, City Col. New York, 61- Soc. Pub. Admin; Econ. Asn. Economics; labor; statistics. Publ: Philippines at economic crossroads; Manpower survey of the Syracuse labor market; Wholesaling, warehousing and other distribution industries in Puerto Rico. Address: Dept. of Finance, Florida Atlantic University, Boca Raton, Fla. 33432.

KLOEPFER, DR. HERMAN J(ACOB), b. Kent, Ind, Feb. 12, 98; m. 40. SOCIOLOGY. A.B, Ellsworth Col, 21; A.M, Kentucky, 25; Columbia, 31-32; Ed.D, Colorado, 51. Prof. ed, Ellsworth Col, 25-27; instr. hist, Morristown Col, 29-31, 33-36; prof. sociol, Knoxville Col, 36-37, 39-64; instr. & lectr, Tennessee, 64-68; RETIRED. Instr, Colorado, 48-49. Sociol. Asn; Rural Sociol. Soc. General sociology; family. Address: 1105 W. Adair Dr, Knoxville, Tenn. 37918.

KLONGLAN, DR. GERALD EDWARD, b. Nevada, Iowa, Apr. 1, 36; m. 60. SOCIOLOGY. B.S, Iowa State, 58, M.S, 62, Ph.D.(rural sociol), 63; Mich. State, summer 61. Res. asst. SOCIOL, IOWA STATE, 59-62, res. assoc, 62-63, asst. prof, 63-66, ASSOC. PROF, 66- Co-dir. res. contract, U.S. Dept. Defense-Off. Civil Defense, 63-67; sociol. res. count, U.S. Agency Int. Develop-Univ. Missouri mass commun. proj, Malawi, Africa, 67; co-dir. res. contract, Off. Gov. State of Iowa, Off. Econ. Opportunity & Voc. Rehab. Admin, 67-68. U.S.A.R, 58-64, Sgt. AAAS; Sociol. Asn; Rural Sociol. Soc; Asn. Pub. Opinion Res. Social action and change; adoption-diffusion; mass and personal communication; community, including social power, interagency and organizational linkages and political sociology; research methods and sociological theory. Publ: Co-auth, Adoption of public fallout shelters: a 1964 national study, Rural Sociol. Report 49, 66, Prediction of local civil defense directors' role performance: Minnesota, Georgia and Massachusetts, Rural Sociol. Report 52, 66 & A comparative analysis of community power structures: a delineation and comparative analysis of power structures in five Iowa communities, Rural Sociol. Report 50, 67, Iowa State Univ. Address: Dept. of Sociology, Iowa State University, 204 East Hall, Ames, Iowa 50010.

KLONTZ, PROF. HAROLD E(MERSON), b. Lombard, Ill, May 17, 14; m. 44; c. 1. ECONOMICS. A.B, Berea Col, 35; Ph.D.(econ), North Carolina, 48. Instr, North Carolina, 42-46; PROF. ECON, AUBURN, 46- Smith-Mundt exchange prof, Univ. Khartoum, Sudan, 61-62. Consult, Anniston Ord. Depot, Ala, 54-55; Red River Arsenal, Tex, 56-58. Statist. Asn; Econ. Asn. Management statistics; resource appraisal and industry analysis; regional impact of industrialization. Publ: Economic study of the southern furniture manufacturing industry; Problems in elementary statistics. Address: School of Business, Auburn University, Auburn, Ala. 36830.

KLOPFER, PROF. BRUNO, b. Augsburg, Germany, Oct. 1, 00; nat; m. 23; c. 1. PSYCHOLOGY. Ph.D.(psychol), Munich, 22. CLIN. PROF. PSYCHOL, CALIFORNIA, LOS ANGELES, 46- Clin. psychol. consult, 46- Fel. Psychol. Asn; fel. Soc. Proj. Tech.(ed, Jour, 36-). Projective techniques; psychotherapy; Jungian analysis. Publ: Co-auth, The Rorschach Technique & Developments in the Rorschach Technique. Address: 268 Hacienda, Carmel, Calif. 93921.

KLOPFER, PROF. F(LORENZ) DUDLEY, Comp. Psychol, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

KLOPFER, PROF. WALTER G(EORGE), b. Germany, Dec. 14, 23; nat; m. 42; c. 2. CLINICAL PSYCHOLOGY. A.B, California, 43, Ph.D, 50; M.A, City Col. New York, 47. Attend. psychologist, Home for Aged & Infirmed, 46-47; Vet. Admin. trainee clin. psychol, California, 47-50; asst. prof. psychol, Duke, 50-52, sr. clin. psychologist, hosp, 50-52; asst. prof. med. psychol, col. med, Nebraska, 52-58; prof. psychol. & dir. clin. training, Portland, 58-65; PROF. PSYCHOL, PORTLAND STATE COL, 65- Chief clin. psychologist, Norfolk State Hosp, Nebr, 52-58. Consult, Dammasch State Hosp, 59-; Vet. Admin, 60-; Ore. Fairview Home; Cath. Charities; Multnomah County Ment. Health Clin, 64-; Columbia Park State Hosp, 66- Exec. ed, J. Proj. Tech. & Personality Assessment, 65- C.Eng, U.S.A, 43-45, Med.Serv.C, 45-46. Psychol. Asn; fel. Soc. Proj. Tech. Projective techniques for personality assessment. Publ: Psychological report: use and communication of psychological findings, Grune; co-auth, Psychobiology of aging, 66 & Modern survey of projective techniques, 68, Springer. Address: Dept. of Psychology, Portland State College, Portland, Ore. 97207.

KLOPSTOCK, DR. FRED H, b. Berlin, Germany, Feb. 11, 13; nat; m. 47; c. 1. ECONOMICS. Ph.D, Berlin, 36. ECONOMIST, FED. RESERVE BANK of N.Y, 42-, CHIEF BALANCE OF PAYMENTS DIV, 51-, MGR. RES. DEPT, 60- Analyst, U.S. Strategic Bombing Surv, 45; economist, Allied Cmn, Austria, 46-47; instr, City Col. New York, 49; adv, finance div, Off. U.S. High Cmnr, Germany, 50. Consult, U.S. Dept. State, 50-51. Econ. Asn. United States international financial policy; balance of payments; monetary policy. Publ: International status of the dollar & The Euro-dollar market, 68, Princeton; The international money market, J. Finance. Address: 9 Ridge Circle, Manhassett, N.Y. 11030.

KLORES, DR. MALCOLM STANLEY, b. New York, N.Y, Jan. 29, 38. INDUSTRIAL & PERSONNEL PSYCHOLOGY. B.A, Cornell, 59; M.A, Michigan, 61, U.S. Pub. Health Serv. fel, 61-64, Ph.D.(indust. & personnel psychol), 64. Res. scientist, HumRRO, George Washington, 64-66; ASST. PROF. PSYCHOL, MORAVIAN COL, 66- AAAS; Psychol. Asn. Resistance to change and rater bias in performance ratings. Publ: Rater bias in forced-distribution performance ratings, Personnel Psychol, winter 66; co-auth, Attitudes toward cheating as a function of classroom dissatisfaction and peer norms, J. Ed. Res, (in press). Address: Monocacy Hall, Moravian College, Bethlehem, Pa. 18018.

KLOS, PROF. JOSEPH J(AMES), b. Newkirk, Okla, Feb. 27, 17; m. 43; c. 1. ECONOMICS. B.S, Okla. Agr. & Mech. Col, 40, M.S, 41; Ph.D.(econ), Wisconsin, 54. Instr. ECON, OKLA. STATE, 46-48, asst. prof, 50-55, assoc. prof, 55-65, PROF, 65- U.S.A, 43-46, Res, 46-, Lt. Col. Econ. Asn. Social Security; labor law; government regulation of business; public welfare programs in Oklahoma. Publ: The drive for security in occupational life, Chap. 9, Nat. Bus. Ed. Asn. Yearbook, 64; Public welfare in Oklahoma, dept. pub, Okla. State, 65. Address: 2029 Sherwood, Stillwater, Okla. 74074.

KLOSTER, PROF. CLAIR G, b. Forest City, Iowa, July 23, 12; m. 40; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Luther Col, 38; M.A, Minnesota, 48, Ph.D, 56. Teacher & coach, pub. schs, Iowa, 34-37, supt. schs, 38-39, prin, 39-41; guid. dir, Minn, 41-42; student counsr. psychol, Minnesota, 46-47; dean students, LUTHER COL, 47-55, PROF. ED. & PSYCHOL. & DIR. TEACHER ED, 55-, V.PRES. STUDENT AFFAIRS, 65- Summer, lectr, Idaho State Col, 62-63. Mem, Iowa Cmn. Teacher Ed. & Prfnl. Standards, 56-59, exec. coun, 61- U.S.N.R, 42-46, Lt. Research and evaluation on effect of experience on students and graduates. Address: Dept. of Psychology, Luther College, Decorah, Iowa 52101.

KLOSTER, PROF. IVER J(OHNSON), Econ, Bus, see 10th ed, Soc. & Behav. Vols. Latest known address: Route 2, Box 39, Noel, Mo. 64854.

KLOTZ, DR. JEROME H, b. Loma Linda, Calif, June 21, 34; m. 56; c. 2. STATISTICS. A.B, California, Berkeley, 56, Ph.D.(statist), 60. Asst. statist, California, 56-58, programmer, comput. center, California, 58-59, asst. statist, univ, 59-60; lectr. math. & statist, McGill, 60-61; asst. prof. STATIST, California, Berkeley, 61-62; Harvard, 62-65; ASSOC. PROF, WISCONSIN, 65- Mathematician, U.S. Naval Ord. Lab, Calif, 55-57. Statist. Asn; Inst. Math. Statist. Nonparametric statistics. Publ: Nonparametric

methods, Ann. Math. Statist. & J. Am. Statist. Asn. Address: Dept. of Statistics, University of Wisconsin, 1210 W. Dayton St, Madison, Wis. 53706.

KLOVE, PROF. HALLGRIM, Psychol, see 11th ed. Phys. & Biol. Vols.

KLOVE, DR. ROBERT C(HARLES), b. Leland, Ill, Jan. 4, 11; m. 50; c. 3. GEOGRAPHY. Ph.B, Chicago, 32, S.M, 37, fel, 39-40, Ph.D.(geog), 42. Asst. geog, Chicago, 37-38, instr, 38-39; res. planner, Chicago Planning Cmn, Ill, 41-42; asst. prof. geog, Washington (St. Louis), 46-47; ASST. CHIEF GEOG. DIV, U.S. BUR. CENSUS, 47- U.S.N.R, 42-46, Lt. Comdr. Fel. AAAS; Asn. Am. Geog; Am. Geog. Soc; Cong. Surv. & Mapping; Statist. Asn; Pop. Asn. Statistical areas; urban and population geography. Publ: Census tract manual; co-auth, Progress on Census Bureau's metropolitan area base maps, Census Bur, 64; auth, Statistical cartography at the U.S. Bureau of the Census, Int. Cartog. Yearbook, 67. Address: Geography Division, U.S. Bureau of the Census, Washington, D.C. 20233.

KLUCKHOHN, DR. FLORENCE ROCKWOOD (MRS. GEORGE E. TAYLOR), b. Bluffs, Ill, Jan. 14, 05; m. 32; c. 1. SOCIOLOGY. A.B, Wisconsin, 27; Ph.D, Radcliffe Col, 41. Asst. prof. sociol, Wellesley Col, 40-48; lectr. & res. assoc. soc. rels, Harvard, 48-68. Res. analyst, Off. War Info, 44-45. Consult, Group Adv. Psychiat, 49-65. Sociol. Asn; Anthrop. Asn; Soc. Appl. Anthrop; Acad. Polit. & Soc. Sci. Publ: Sr. auth, Variations in value orientations; American family: past and present; America's women. Address: 1734 N.E. 55th Place, Seattle, Wash. 98105.

KLUCKHOHN, DR. RICHARD, b. Madison, Wis, Oct. 2, 33; m. 62; c. 2. ANTHROPOLOGY. A.B, Chicago, 52, Soc. Sci. Res. Coun. fel, 52, M.A, 54; Nat. Inst. Ment. Health fel, Harvard, 58-60, Ph.D.(anthrop), 65. Assoc. ed. col. dept, Row-Peterson Pub. Co, 54-55; asst. prof. ANTHROP, Boston, 61-65; ASSOC. PROF, SAN FERNANDO VALLEY STATE COL, 65- Lectr, inst. prev. psychiat, Univ. Iowa, 64. Consult, Econotech Corp, 63-65. U.S.M.C.R, 51-54, 1st Lt. Fel. Anthrop. Asn; Acad. Arts & Sci. Culture and personality; social structure; anthropological theory and method; physical anthropology; Publ: Ed, Culture and behavior, Macmillan, 63; co-auth, The function of male initiation rites at puberty, In: Readings in social psychology, Holt, 58; auth, Creative approaches to family conflicts, In: Recent research on creative approaches to environmental stress, Univ. Iowa, 64. Address: Dept. of Anthropology, San Fernando Valley State College, Northridge, Calif. 91324.

KLUG, RAYMOND H, Indust. Admin, Econ, see 10th ed, Soc. & Behav. Vols.

KLUGH, PROF. HENRY E(LICKER), b. Harrisburg, Pa, Mar. 23, 27; m. 53. PSYCHOLOGY. A.B, Geneva Col, 51; M.S, Pittsburgh, 52, Ph.D, 55. PROF. PSYCHOL, ALMA COL.(MICH), 55- Psychol. Asn. Learning theory; psychometrics. Address: Dept. of Psychology, Alma College, Alma, Mich. 48801.

KLUGMAN, DR. SAMUEL F, b. Philadelphia, Pa, Jan. 17, 08; m. 53; c. 1. PSYCHOLOGY. B.Sc, Temple, 33, M.Sc, 34; Ph.D, Pennsylvania, 52. Teacher, pub. sch. syst, Pa, 35-43; psychologist, Vet. Admin, 46-68; ASSOC. PROF. PSYCHOL, WEST CHESTER STATE COL, 68- Lectr, The Junto, Pa, 50-53; Pa. State Univ, 67- U.S.A.A.F, 43-46. Psychol. Asn; Rehab. Asn. Counseling; clinical evaluation; research and training. Publ: Retention of affectively toned verbal material by normals and neurotics, J. Abnorm. & Soc. Psychol; Study of the interest profile of a psychotic group and its bearing on interest-personality theory, Ed. & Psychol. Measurement; Differential effects of various tranquilizing drugs on speed of tapping, J. Clin. Psychol. Address: B9 Black Hawk Circle, Downingtown, Pa. 19335.

KLUPPEL, DR. DOLORES DeNETTE, b. Houston, Tex, Aug. 23, 36. EXPERIMENTAL & CHILD PSYCHOLOGY. B.A, California, Los Angeles, 57, M.A, 59, Ph.D.(psychol), 62. Instr. psychol, Pomona Col, 59-60; asst. prof. in residence, California, Los Angeles, 62-63; asst. prof, San Fernando Valley State Col, 63-65; vis. lectr. NORM. LANG. ACQUISITION, WISCONSIN, 65-66, asst. prof, 66-68, ASSOC. PROF, 68- Co-investr, San Fernando Valley State Col-Voc. Rehab. Admin. grant, 64-65. Consult, Univ. California, Los Angeles-Coop. Res. Proj, 62-63; Sepulveda Vet. Admin. Hosp, 65; Camarillo State Hosp, 65; Oper. Headstart, Wis, 66- AAAS; Psychol. Asn; Speech & Hearing Asn. Normal language acquisition and language performance of various etiological groups with known disorders of language; relationship between conceptual behavior and language performance. Publ: Co-auth, Mediational variables in concept formations, 62 & auth, Stimulus labelability as a factor in concept formation, 64, Psychol. Reports; Prediction of school performance by ratings of parental interviews, J. Ed. Res, 68. Address: Dept. of Communicative Disorders, University of Wisconsin, 905 University Ave, Madison, Wis. 53706.

KLÜVER, PROF. HEINRICH, Biol. psychol, see 11th ed, Phys. & Biol. Vols.

KNAAK, PROF. NANCY K(ATHERINE), b. Evanston, Ill, July 4, 28. GUIDANCE, PSYCHOLOGY. B.S, Northwestern, 50, M.A, 53, Ph.D.(ed. psychol), 56. Teacher, high sch, Ill, 50-52; instr. Eng, WIS. STATE, RIVER FALLS, 52-54, asst. prof. PSYCHOL, 56-57, assoc. prof, 57-60, PROF, 60-, ASSOC. DEAN STUDENTS, 56- Psychol. Asn. Characteristics of college women students, particularly academic and social motivation. Publ: Characteristics of academically successful and unsuccessful freshmen women, In: Guiding college bound youth; Clouds of time; Dean's first year, Wis. Ed. Asn. J. Address: 215 S. Eighth St, River Falls, Wis. 54022.

KNADLER, DR. GEORGE A, b. Frankfort, Ky, Oct. 17, 16; m. 37; c. 3. GEOGRAPHY. B.S, West. Ky. State Col, 37; M.S, Butler, 49; Ed.D.(geog), Indiana, 58; M.A, Wisconsin, 61. Teacher, pub. sch, Ky, 37-44; Ind, 44-53; instr. geol. & geog, Principia Col, 53-56, asst. prof, 56-59, assoc. prof. geog. & head dept, 59-62; assoc. prof. GEOG. & dean instr, Pa. State, Behrend Campus, 62-64; ASST. PROF, INDIANA, INDIANAPOLIS REGIONAL CAMPUS, 64- Summers, vis. prof, State Univ. N.Y. Col. Buffalo, 64; Nat. Defense Ed. Act grant study Africa, Yale, 65. U.S.A, 45. AAAS; Asn. Am. Geog; Coun. Geog. Ed. Regional geography; history and philosophy of geographic thought. Address: Dept. of Geography, Indiana University, Indianapolis Regional Campus, Indianapolis, Ind. 46204.

KNAPE, DR. CLIFFORD S(TANLEY), b. Austin, Tex, Dec. 7, 16; m. 42; c. 3. PSYCHOLOGY. B.A. & M.A, Texas, 42, Ph.D.(ed. psychol. & psychol), 58; M.A, Baylor, 52. Caseworker & psychometrist, rehab. div, Tex. Ed. Agency, 36-42; couns. psychologist, Vet. Admin, 45-51, 53-58, chief, couns. psychol. serv, VET. ADMIN. HOSP, 58-66, CHIEF, PSYCHOL. SERV, 66-; ADJ. PROF, BAYLOR, 53- Consult, Cmn. for Blind & Asn. for Ment. Health, Tex. Chief, proficiency measurements res. serv, training anal. div, Air Training Command, U.S.A.F, 42-45, 51-53, Res, 53-, Maj. Psychol. Asn; Personnel & Guid. Asn; Rehab. Asn. Dynamics of placement in the rehabilitation process; attitudes toward handicapped; effectiveness of U.S. Air Force education, training methods and programs; dynamics of social and vocational reintegration of discharged mental patients. Address: Psychology Service, Veterans Administration Hospital, Waco, Tex. 76703.

KNAPP, PROF. AUSTIN C(ARLYLE), b. Clare, Mich, Apr. 18, 16; m. 42; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Central Michigan, 41; Volker fel, Wayne State, 44-45, M.P.A, 46; Michigan State, 48-49, 51-52; Ed.D, Indiana, 60. Jr. exam, State Civil Serv. Cmn, Mich, 41-43; chief exam, Louisville Civil Serv. Bd, Ky, 43-44; govt. analyst, Mich. Surv, 45-47; from instr. to PROF. POLIT. SCI, CENTRAL MICHIGAN, 46- Asst. secy. & ed-in-chief, Official Record, Mich. Constitutional Convention, 61-62. Acad. Polit. Sci; Polit. Sci. Asn. State government and administration; audiovisual communication as it applies to large-group instruction in higher education, particularly political and social science; legal interpretation and application of the 1963 Michigan Constitution. Publ: Legislative representation in Michigan; What does the new constitution mean for education in Michigan, Mich. Sch. Bd. J, 1/64; Constitutional position of the Michigan institutions of higher education, Mich. Acad. Sci, Arts & Letters, 66. Address: Dept. of Political Science, 233 Anspach Hall, Central Michigan University, Mt. Pleasant, Mich. 48858.

KNAPP, BARTON WILBURN, b. Rochester, N.Y, Jan. 15, 21; m. 54; c. 2. CLINICAL PSYCHOLOGY, GERONTOLOGY. A.B, Rochester, 49; M.A, Syracuse, 51. Proj. coordinator, ballistocardiog. res. proj, N.J. Neuro-Psychiat. Inst, 54-55; clin. psychologist, ment. health res. proj, N.J. Dept. Inst. & Agencies, 55-57; chief clin. psychol. sect, bur. res. neurol. & psychiat, N.J. Neuro-Psychiat. Inst, 57-62, RES. PSYCHOLOGIST, SECT. EXP. PSYCHOL, N.J. BUR. RES. NEUROL. & PSYCHIAT, 62- U.S.A, 43-46, Res, 46-, Maj. AAAS; Psychol. Asn; Geront. Soc. Psychological changes with age, especially motivation and cognitive functioning; personality, behavior and perception changes in hypnosis. Address: New Jersey Bureau of Research in Neurology & Psychiatry, Section of Experimental Psychology, Box 1000, Princeton, N.J. 08540.

KNAPP, DR. DAVID ALLAN, b. Cleveland, Ohio, Feb. 25, 38; m. 62; c. 1. PHARMACY ADMINISTRATION. B.S, Purdue, 60, M.A, 62, Ph.D.(pharm. admin), 65. Instr. PHARM. ADMIN. & SOC. SCI. IN PHARM, COL. PHARM, OHIO STATE, 64, asst. prof, 64-67, ASSOC. PROF, 67- Res. grants, 65-70. Psychol. Asn; Pharmaceut. Asn. Applications of sociological and psychological theory and principles to problems of pharmacy; consumer decision-making; roles of health practitioners; use or misuse of drugs. Publ: Experiments in pharmaceutical education, Am. J. Pharm. Ed, 66; The public, the pharmacist, and self-medication, J. Am. Pharmaceut. Asn, 66; co-auth, Disillusionment in pharmacy students, Soc. Sci. & Med, 67. Address: College of Pharmacy, Ohio State University, 500 W. 12th Ave, Columbus, Ohio. 43210.

KNAPP, DR. DAVID C(URTIS), b. Syracuse, N.Y, Nov. 13, 27. GOVERNMENT. A.B, Syracuse, 47; A.M, Chicago, 48, Walgreen scholar, 48-49, Ph.D.(polit. sci), 53. Asst. prof. govt, New Hampshire, 53-56, asst. to pres, 56-61, dean col. lib. arts, 61-62; asst. dir, Study Am. Cols. Agr, 63-65; DIR. INST. COL. & UNIV. ADMINSTRS, AM. COUN. ED, 65- Fulbright res. scholar, Finland, 59-60; Bullard fel, Harvard, 62-63. U.S.A, 50-52. Polit. Sci. Asn; Soc. Pub. Admin. Academic organization and administration; natural resources policy and administration; comparative administration. Publ: Co-auth, The college of agriculture: science in the public service, McGraw, 66; Congressional control of agricultural conservation policy: a case study of the appropriations process, Polit. Sci. Quart, 6/56; co-auth, Finland's manager plan, Nat. Civic Rev, 2/61. Address: Institute for College & University Administrators, American Council of Education, 1785 Massachusetts Ave, Washington, D.C. 20036.

KNAPP, DR. DEANNE ERMA, b. New York, N.Y, Jan. 12, 41; m. 62; c. 1. SOCIAL PSYCHOLOGY. B.S, Purdue, 62, M.S, 63, Univ. Res. Found. fel. & Ph.D.(psychol), 64. Asst. prof. psychol, Otterbein Col, 64-65; RES. ASSOC, OHIO STATE, 65-, ASST. PROF. BUS. ORGN, 67- Res. grants, U.S. Pub. Health Serv, 65-70, Ohio State Univ, 66-68. Psychol. Asn. Applications of sociological and psychological theory and principles to community health problems; social motivation and behavior; decision-making. Publ: Co-auth, The safety and efficacy of practicing pharmacists, Am. Asn. Cols. Pharm, 67; auth, The pharmacist as perceived by doctors, customers, and other pharmacists, Am. Pharmaceut. Asn, 67 & Interrelations among measures of affiliation and approval motivation under stress and nonstress conditions, J. Soc. Psychol, 66. Address: College of Pharmacy, Ohio State University, 500 W. 12th Ave, Columbus, Ohio 43210.

KNAPP, DONALD L(ESLIE), Neuropsychol, see 11th ed, Phys. & Biol. Vols.

KNAPP, DORIS C(ARLTON), b. St. Peter, Minn, Oct. 21, 11; m. 37, 57; c. 2. ECONOMICS. B.A, Gustavus Adolphus Col, 31; LL.B, Wash. Col. Law, 37; M.B.A, American Univ, 55; London Sch. Econ, 56. Writer & ed. soc. security, Soc. Security Bd, 36-41; ed. standard indust. classification, U.S. Bur. Budget, 41; bus. economist, Off. Price Admin, 41-43; surv. statistician, War Prod. Bd, 43-46; price economist, Supreme Commander Allied Powers, Tokyo, 46-49; soc, statistician, U.S. Dept. Army, Okinawa, 49-50; anal. statistician, Nat. Prod. Authority, 50-51; Defense Prod. Admin, 51-53; ECONOMIST, Nat. Park Serv, 53-62, BUR. OUTDOOR RECREATION, 62- Polit. Sci. Asn; Statist. Asn; Asn. Comput. Mach. Economics of recreation; survey planning; business economics. Address: Bureau of Outdoor Recreation, U.S. Dept. of the Interior, Washington, D.C. 20240.

KNAPP, JOHN LAURENCE, b. Washington, D.C, Sept. 30, 35; m. 62; c. 1. ECONOMICS. B.A, Colorado, 57; M.A, Duke, 60; Virginia, 64-66. Budget analyst, off. budget & finance, U.S. Dept. Agr, 60; asst. economist, Fed. Reserve Bank of Richmond, 60-62; economist, div. indust. develop. & planning, COMMONWEALTH VA, 62-64, DIV. PLANNING, 66-67, CHIEF RES. SECT, 67- U.S.A.R, 59-65. Econ. Asn. Labor economics; regional economics; state and local public finance. Publ: North Carolina: an economic profile, Fed. Reserve Bank of Richmond, 63; Manufacturing plants established in Virginia from 1950 to 1963, Conf. Proc. 10, 37th Annual Meeting Va. Soc. Sci. Asn, 1/64; Projections to 1980 for Virginia metropolitan areas, Va. Div. Planning, 8/67. Address: 8601 Julian Rd, Richmond, Va. 23229.

KNAPP, DR. JOSEPH G(RANT), b. Loveland, Colo, Nov. 22, 00. AGRICULTURAL ECONOMICS. B.S, Nebraska, 22, scholar & A.M, 23; Food Res. Inst. fel, Stanford, 24-25, Ph.D, 29; hon. D.Sc, Nebraska & N.C. State, 67. Asst, Chicago, 23-24; Stanford, 25-26; mem. staff, Brookings Inst, 26-29; assoc. prof. agr. econ, N.C. State Col, 29-34; sr. agr. economist, Farm Credit Admin, 34-36, prin. agr. economist, 36-48, assoc. chief coop. res. & serv. div, 48-53; adminstr, Farmer Coop. Serv, U.S. Dept. Agr, 53-66; AGR. ECONOMIST, 66- Mem. staff, Brookings Inst, 45-46; Coop. Found. res. grant, 66-68. Consult, U.S. Dept. Agr-Agency Int. Develop, Brazil, 67. Am. Inst. Coop. pioneer award, 64. Econ. Asn; Agr. Econ. Asn; Mkt. Asn. Cooperative purchasing by farmers; cooperative marketing of agricultural products. Publ: The hard winter wheat pools: an experiment in agricultural marketing integration; Seeds that grew: a history of the Cooperative Grange League Federation Exchange; Farmers in business, Am. Inst. Coop, 63. Address: 7119 Fairfax Rd, Bethesda, Md. 20014.

KNAPP, DR. PEARL G(ILLILAND), b. Ripley, Ohio, Jan. 7, 01; wid. PSYCHOLOGY. B.A, California, Los Angeles, 28, M.A, 38, Ph.D, 49. Psychologist, Los Angeles Psychiat. Serv, 42-49, CHIEF PSYCHOLOGIST, 49-57; CEDARS DIV, CEDARS OF LEBANON MED. CENTER, LOS ANGELES, 58- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; N.Y. Acad. Sci. Evaluation of outcome, of short time psychotherapy, and short training courses for general practitioners. Address: 1801 N. Country Lane, Pasadena, Calif. 91107.

KNAPP, DR. PETER H(OBART), b. Syracuse, N.Y, June 30, 16; m. 56; c. 6. PSYCHIATRY. B.A, Harvard, 37; M.D, Harvard Med. Sch, 41. Intern med, Boston City Hosp, 41-42, res. neurol, 46-47; asst. res. PSYCHIAT, Mass. Gen. Hosp, 47-48; instr, UNIV. HOSP. & SCH. MED, BOSTON, 48-52, asst. prof, 52-57, assoc. res. prof, 57-61, RES. PROF, 61- Mem. faculty, Boston Psychoanal. Soc. & Inst, Inc, 58-; prin. investr, U.S. Pub. Health Serv. res. grant, 53-, career investr. psychiat, 54-59, assoc. dir. prog. res. training for psychiatrists, 62-; fel, Center Adv. Study Behav. Sci, 64-65. Consult, Vet. Admin, 58-60. Med.C, 43-46, Maj. Psychosom. Soc; Am. Med. Asn; fel. Psychiat. Asn; Psychoanal. Asn. Bronchial asthma and emotion state; various aspects of the psychoanalytic situation. Publ: Co-auth, Expression of the emotions in man, Int. Univs, 63; auth, Short term psychoanalytic and psychosomatic predictions, J. Am. Psychoanal. Asn, 11: 245-280; Libido: a latter day look, J. Nervous & Ment. Diseases, 142: 395-417. Address: Boston University School of Medicine, 80 E. Concord St, Boston, Mass. 02118.

KNAPP, PROF. ROBERT HAMPDEN, b. Portland, Ore, Apr. 16, 15; m. 45. PSYCHOLOGY. B.A, Oregon, 38, M.A, 39; A.M, Harvard, 40, fel, 40-41, Ph.D.(psychol), 48; hon. M.A, Wesleyan, 56. Asst, acoustic lab, Harvard, 40-41; tutor, Radcliffe Col, 41-42; civilian consult. & U.S. tech. rep, Off. Strategic Servs, 42-46; asst. prof. PSYCHOL, WESLEYAN, 46-50, assoc. prof, 50-56, PROF, 56- Dep. dir. behav. sci. div, Ford Found, 53-54; res. psychologist, Inst. Personality Assessment & Res, 58-59. Civilian with Off. Sci. Res. & Develop; U.S.N. Psychol. Asn; Int. Asn. Empirical Aesthetics. Personality; audition; social psychology. Publ: Co-auth, Origins of American scientists & The younger American scholar; auth, Origins of the American humanistic scholar, Prentice-Hall, 64. Address: 171 Mt. Vernon St, Middletown, Conn. 06457.

KNAPP, DR. ROBERT K(ARL), b. Akron, Ohio, Feb. 12, 32; m. 56; c. 4. EXPERIMENTAL PSYCHOLOGY. B.A, Kent State, 54, M.A, 56; Ph.D.(psychol), Mich. State, 60. Trainee psychol, Vet. Admin. Hosp, Battle Creek, Mich, 58-60, psychologist, 60-61; ASSOC. PROF. PSYCHOL, WICHITA STATE, 61- Consult, Ment. Hyg. Clin, Vet. Admin. Hosp. & Regional Off, Wichita, 61-; Boeing Co, 66- Psychol. Asn. Learning theory; human factors psychology. Publ: Co-auth, Immediate vs. delayed shock in T-maze performance, J. Exp. Psychol, 59; auth, Acquisition and extinction of avoidance with similar and different shock and escape situations, J. Comp. & Physiol. Psychol, 65. Address: Dept. of Psychology, Wichita State University, Wichita, Kans. 67208.

KNAPP, ROBERT R(ICHARD), b. Huntington Park, Calif, Oct. 4, 32; m. 53; c. 3. PSYCHOLOGY. A.B, California, 54; M.A, San Diego State Col, 58. Psychologist, quarantine substa, U.S. Pub. Health Serv, 55; res. psychologist, U.S. Naval Med. Res. Lab, 57-58; head dept. psychol, U.S. Naval Med. Field Res. Lab, 58-59; res. psychologist & proj. dir, U.S. Naval Personnel Res. Activity, 59-61; head environmental sect, U.S. Navy Med. Neuropsychiat. Res. Unit, 61-63; DIR. ED. & INDUST. TESTING SERV, 62-; PUBLISHER, ROBERT R. KNAPP, 63- Med.Serv.C, 55-59, Res, 59- Lt. Comdr. AAAS; Psychol. Asn; Soc. Multivariate Exp. Psychol; Psychomet. Soc; Statist. Asn; Personnel & Guid. Asn. Use of psychometric techniques and instruments in multivariate investigations of behavior including areas of military adjustment, delinquency, prediction of school success and peer evaluations. Publ: Effects of time limits on the intelligence test performance of Mexican and American subjects, J. Ed. Psychol; Relationship of a measure of self-actualization to extravension and neuroticism, J. Consult. Psychol, 65; co-auth, Relationship of a measure of self-actualization (POI) to a measure of pathology (MMPI) and to therapeutic growth, Am. J. Psychother, 66. Address: P.O. Box 7234, San Diego, Calif. 92107.

KNAPP, DR. SARAH C(OUNTS), b. Baldwin City, Kans, May 21, 26; m. 61. PSYCHOLOGY. B.S, Chicago, 47, U.S. Pub. Health Serv. fel, 50-52, Ph.D, 52. Res. assoc. psychol, Asn. Am. Med. Cols, Ill, 52-54; col. med, Illinois, 54-57; trainee clin. psychol, Stanford Univ. & Vet. Admin, 57-59; res. psychologist, NAPA STATE HOSP, IMOLA, 59-66, CLIN. STAFF PSYCHOLOGIST, 66-, acting chief res, 62-65. Res. assoc, State Psychopathic Inst, Ill, 54-57; cmt. human develop, Univ. Chicago, 56-57. Mem. res. adv. cmt, Dept. Ment. Hyg, Calif, 61-66. Psychol. Asn; Psychomet. Soc. Data processing methods in clinical psychology; research methods for behavioral sciences. Publ: Some stable response determinants of perception, thinking, and learning, Genetic Psychol. Monogr, 8/57; Racial differences on the MMPI, J. Clin. Psychol, 4/61; Outpatient screening of hospital candidates, Ment. Hyg, 7/65. Address: 6231 Arlington, Richmond, Calif. 94805.

KNAPP, DR. THOMAS R(OBERT), b. Rochester, N.Y, June 14, 30; m. 57; c. 2. STATISTICS, PSYCHOLOGICAL MEASUREMENT. A.B, Rochester, 52, Ed.M, 54, A.M, 57; Ed.D.(ed. measurement, statist), Harvard, 59. Instr. ed, Col. Holy Cross, 58-59; asst. prof. ed. & dir. testing & counseling serv, ROCHESTER, 59-63, ASSOC. PROF. ED, 63- R.T. French vis. prof, Univ. Hull, 65-66; asst. staff dir, Explor. Cmt. Assessing Progress Ed, 67-68. Sig.C, U.S.A, 55-56. Ed. Res. Asn; Nat. Coun. Measurement in Ed. Statistical theory of educational and psychological tests. Publ: Interactive versus ipsative measurement of career interest, Personnel & Guid. J, 1/66; co-auth, Some empirical results concerning the power of Bartlett's test of the significance of a correlation matrix, Am. Ed. Res. J, 1/67; auth, Application of balanced incomplete block designs to the estimation of test norms, Ed. & Psychol. Measurement, summer 68. Address: River Campus Station, University of Rochester, Rochester, N.Y. 14627.

KNAPPEN, DR. LAURENCE S(TEVENS), b. Sioux Falls, S.Dak, Feb. 23, 98. FINANCE. A.B, Wisconsin, 20; A.M, Rutgers, 33; Ph.D, Columbia, 40. Instr. econ, Rutgers, 33-40, asst. prof, 40-46; CONSULT. ECONOMIST, 46- Asst. chief, plumbing & heating br, War Prod. Bd, 41-42; chief economist, pub. utilities br, Off. Price Admin, 43-46, chief, 46. Econ. Asn. Investments; corporation finance; public utility economics. Publ: Revenue bonds and the investor; co-auth, Economics and the public interest; contrib, Wage rate increases versus telephone rate increases, Land Econ. Address: 2512 Fort Scott Dr, Arlington, Va. 22202.

KNAPPEN, PROF. MARSHALL (MASON), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 66.

KNAPTON, PROF. E(RNEST) J(OHN), European Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KNAUFT, DR. EDWIN BURDETTE, Psychol, see 10th ed, Soc. & Behav. Vols.

KNAUTH, DR. OSWALD W(HITMAN), Econ, see 10th ed, Soc. & Behav. Vols, deceased 62.

KNEBERG, PROF. MADELINE D(OROTHY), Anthrop, see 10th ed, Soc. & Behav. Vols.

KNEESE, DR. ALLEN V(ICTOR), b. U.S.A, Apr. 5, 30; m. 56. ECONOMICS. B.S, 51; M.A, Colorado, 53; fels, Indiana, 54-56, Ph.D, 56. Asst. prof. econ, New Mexico, 56-58; economist, Fed. Reserve Bank, Mo, 58-61; res. assoc, RESOURCES FOR THE FUTURE, INC, 61-63, DIR. QUAL. ENVIRON. PROG, 63- Consult, Nat. Acad. Sci; WHO; Del. River Basin Cmn. Econ. Asn. Natural resources; public expenditures. Publ: Economics of regional water quality management, 64, co-auth, Quality of the environment, 65 & Managing water quality, 68, Johns Hopkins. Address: Resources for the Future, Inc, 1755 Massachusetts Ave. N.W, Washington, D.C. 20036.

KNEHR, PROF. CHARLES A(NTHONY), b. Wichita, Kans, June 15, 10; m. 32; c. 2. PSYCHOLOGY. A.B, Columbia, 32, M.A, 33, Ph.D, 41; fel, Harvard, 35-36. Instr. sci, Plattsburgh State Teachers Col, 34-35; asst. PSYCHOL, Columbia, 36-37; fatigue lab, Harvard, 37-41; instr, LEHMAN COL, CITY UNIV. NEW YORK, 41-42, 46-49, from asst. prof. to PROF. & CHMN. DEPT, 49- Asst. prof, med. col, Cornell, 57-63. U.S.A, 42-46, Lt. AAAS; fel. Psychol. Asn. Cognitive development and decline; effects of psychopathology and brain damage in cognition; intelligence. Publ: Training and its effects on man at rest and at work, Am. J. Physiol; Psychological assessment of differential impairment in cerebral organic conditions and in schizophrenics, J. Psychol; Revised approach to the detection of cerebral damage: progressive matrices revisited, Psychol. Reports. Address: Dept. of Psychology, Lehman College of City University of New York, Bedford Park Blvd. West, Bronx, N.Y. 10468.

KNEIER, PROF. CHARLES M(AYARD), b. Clinton Co, Ill, Oct. 8, 98; m. 35. GOVERNMENT. A.B, Illinois, 22, A.M, 24, Ph.D, 26; Cornell, 31; J.D, Michigan, 37. Asst. polit. sci, Illinois, 24-26; instr. govt, Texas, 26-27; asst. prof. POLIT. SCI, Nebraska, 27-28, assoc. prof, 28-30; asst. prof, ILLINOIS, 30-32, assoc. prof, 32-38, prof, 39-64, EMER. PROF, 64- Dir. res, State Legis. Coun, Ill, 38-39, consult, 39- Consult, Tenn. Valley Authority, 39-43. U.S.A, 43-46, Lt. Col. Polit. Sci. Asn.(v.pres, 49); Soc. Pub. Admin. Municipal government and administration. Publ: Illustrative materials in municipal government and administration; co-ed, Readings in municipal government and administration; City government in the United States. Address: 103 The Meadows, Urbana, Ill. 61801.

KNEPLER, PROF. ABRAHAM E(LEAZAR), b. Bridgeport, Conn, July 6, 11; m. 47; c. 2. SOCIOLOGY. B.S, Rutgers, 32; Ph.D, Yale, 39, Instr, eve. high sch, Conn, 34-37; sociol. & eng, Middlesex Jr. Col, 39-40; teacher, Upper Freehold Twp. High Sch, N.J, 40-43; head teacher, Home Sch, Plainfield, 43-44; assoc. prof. sociol, Jr. Col. Conn, 45-47; Bridgeport, 47-57, dir. inst. race rel, 48-49, inst. soc. psychol. of juvenile delinquency; prog. analyst, Nat. Community Rel. Adv. Coun, 57-58; assoc. prof. sociol. & chmn. dept, Hartford, 58-61, dir. summer workshop in family life ed, 58-61; assoc. prof. ed, BRIDGEPORT, 61-63, PROF, 63-67, SOCIOL. & ED, 67-, dir. human rels. center, 61-63. Fel. grad. sch, Yale, 56-57; Grant Found. fel, sch. med, Pennsylvania, 57-58. Res. asst. cmn. on motion pictures, Am. Coun. Ed, 44-45, res. specialist, 45-47; consult, Jewish Community Coun, 50-53, Bridgeport, 56; Adult Ed. Coun, Greater Bridgeport, 53-55; marriage counsr, Counseling Center Conn, 58-; lectr, Bridgeport Hosp, 53-57; Conn. State Hosp, Middletown, 59-61; consult, Conn. Asn. Parents & Teachers, 60-,

cmt. family life ed, Am. Soc. Health Asn, 62-; res. proj. bur. voc. rehab, Conn. Dept. Ed, 63-65; Kennedy Center Retarded, Bridgeport, 66- Fund Adult Ed. Study award, Columbia, 54. AAAS; fel. Sociol. Asn; Asn. Marriage Counsr; Acad. Polit. & Soc. Sci; fel. Soc. Group Psychother. & Psychodrama (v.pres, 61-62); Asn. Intergroup Rels. Officials; Nat. Coun. Soc. Studies; Soc. Study Social Probs; Soc. Psychol. Study Social Issues; Nat. Coun. Family Rels. Eighteenth century Cherokee educational efforts; marriage and family; intergroup relations. Address: Dept. of Sociology, University of Bridgeport, Bridgeport, Conn. 06602.

KNEPPER, DR. ALVIN, b. New York, N.Y, Dec. 17, 25. POLITICAL SCIENCE. A.B, Ursinus Col, 49; M.A, N.Y. Univ, 50, Penfield fel, 51-52, Ph.D. (polit. sci), 55. Instr. soc. studies, Wyo. Sem, 53-55; asst. prof. polit. sci. & hist, State Univ. N.Y. Albany, 56; asst. prof. polit. sci. & head dept, Pa. Mil. Col, 56-59; asst. prof. govt. & hist, City Univ. New York, 59-61; ed, Mayor & Mgr. Mag, 61-63; asst. prof. POLIT. SCI, Connecticut, 63-66; ASSOC. PROF, ITHACA COL, 66- Coe fel, 60-61. Mem, Nat. Center Ed. in Polit. U.S.A.A.F, 43-46, S/Sgt. Am. Polit. Sci. Asn; Int. Polit. Sci. Asn. American and comparative government; state, city and local governments; political parties and public opinion; public administration; international politics and relations; constitutional and international law. Publ: John Gilbert Winant and international social justice, Univ. Microfilms, 55; A select bibliography pertaining to the United States national government, Univ. Connecticut, 64; The neighborhood and suggested programs for urban renewal, Mayor & Mgr. Mag, 2/64. Address: 100 Fairview Square, Apt. 4-F, Ithaca, N.Y. 14850.

KNEPPER, PROF. DAVID WILBUR, Polit. Sci, Econ, see 10th ed, Soc. & Behav. Vols.

KNETSCH, DR. JACK LOUIS, b. Kalamazoo, Mich, Mar. 30, 33. ECONOMICS. B.S, Mich. State, 55, M.S, 56; Ford Found. fel, Harvard, 58-59, univ. fel, 59-60, M.P.A, 59, Ph.D.(econ), 63. Asst. agr. econ, Mich. State, 55-56; economist, Tenn. Valley Authority, 56-61; res. assoc. econ. Resources for the Future, 61-66; NATURAL RESOURCES POLICY CENTER, GEORGE WASHINGTON, 66-67, DIR, 67- Consult, U.S. Army Corps Eng, 67-; UN Develop. Prog, 68. Can. Dept. North. Affairs & Nat. Resources, 67- Econ. Asn; Agr. Econ. Asn; Regional Sci. Asn; Soc. Int. Develop. Problems of development and utilization of natural resources; agricultural production and organization; regional economic development. Publ: Co-auth, Economics of outdoor recreation, Johns Hopkins, 66; auth, Moisture uncertainties and fertility response studies & co-auth, Watershed as an entity for development planning, J. Farm Econ. Address: Natural Resources Policy Center, George Washington University, Washington, D.C. 20006.

KNEZ, DR. EUGENE IRVING, b. Clinton, Ind, May 12, 16; m. 52; c. 2. ANTHROPOLOGY, ARCHAEOLOGY. A.B, New Mexico, 40; Indiana, 41; Yale, 47-48; Asia Found. fel, Syracuse, 55, D.S.Sc, 59. Asst. anthrop, Peabody Mus, 47-48; cultural affairs officer, Am. Embassy, Korea, 49-52, policy & planning officer & regional pub. affairs officer, Japan, 52-53; teacher anthrop. & archaeol, Hunter Col, 53-59; ASSOC. CURATOR ASIAN ETHNOL, OFF. ANTHROP, U.S. NAT. MUS, 59- Dir, E.China Sea Prog, field investr, Korea phase; mem. working cmt, Nat. Sci. Mus, Seoul, Korea, 67; res. assoc, Catholic Univ, 67-68. U.S.A, 41-46, Lt. Col. Fel. Anthrop. Asn; Asn. Asian Studies. Anthropological collecting in West Pakistan, India, Taiwan, Korea and Japan. Publ: Sam Jong Dong: a South Korean village; Mutual aid groups of Korea: persistance and change; Selected and annotated bibliography of Korean anthropology, Nat. Assembly Seoul Lib, (in press). Address: 2939 Newark St. N.W, Washington, D.C. 20008.

KNIEF, DR. LOTUS M(AE), b. Readlyn, Iowa, Jan. 29, 21. EDUCATIONAL PSYCHOLOGY. B.A, Wartburg Col, 52; M.A, Iowa, 53, Ph.D.(ed. psychol), 57. Asst. prof. psychol. & dir. testing, Wartburg Col, 57-61; instr. psychol, Phoenix Col, 61-63; ASSOC. PROF. ED. PSYCHOL, ARIZONA, 63- Nat. Ed. Asn; Ed. Res. Asn; Psychol. Asn. Educational psychology, especially intelligence, personality, academic achievement and related factors. Publ: Co-auth, Organismic age concept & Intercorrelations among various intelligence, achievement and social class scores, J. Ed. Psychol. Address: Dept. of Educational Psychology, College of Education, University of Arizona, Tucson, Ariz. 85721.

KNIFFEN, PROF. FRED B(OWERMAN), b. Britton, Mich, Jan. 18, 00; m. 27; c. 3. GEOGRAPHY, ANTHROPOLOGY. A.B, Michigan, 22; fel, California, 25-29, Ph.D.(geog), 29. Asst. prof. geol. & geog, LA. STATE, 29-30, assoc. prof, 30-41, prof, 41-66, BOYD PROF. GEOG, 66- Rosenwald fel, Munich & Leipzig, Germany, 38-39; mem. cmt. topog. maps, Nat. Res. Coun, 59-; Nat. Sci. Found. res. grants, 61-63. Asn. Am. Geog.(hon. pres, 65-66); fel. Anthrop. Asn. Cultural geography; folkways. Publ: Culture worlds; Indians of Louisiana, 2nd ed, La. State Univ, 65. Address: Dept. of Geography & Anthropology, Louisiana State University, Baton Rouge, La. 70803.

KNIFFIN, DR. FRED W, b. Akron, Ohio, Apr. 3, 26; m. 49; c. 3. BUSINESS ADMINISTRATION. A.B, Louisville, 48; M.B.A, Pennsylvania, 49; D.B.A, Indiana, 56. Lectr, sch. bus, Indiana, 54-55, asst. prof, 56-59; assoc. prof. mkt, Pa. State, 60-61, prof, 61-67, head mkt. div, 59-63, mkt. dept, 64-67; GEN. MGR. INDUST. MKT. & ADMIN. ASST. TO V.PRES. AM. CAN CO, 67- Consult, Dacca, 67. U.S.N, 44-46. Econ. Asn; Mkt. Asn.(ed. bibliog, 66-67). Marketing; real estate; management. Publ: Co-auth, Marksim, marketing decision simulation, Int. Textbook, 64. Address: 275 Jonathan Rd, New Canaan, Conn. 06840.

KNIGHT, PROF. BRUCE W(INTON), Econ, see 10th ed, Soc. & Behav. Vols.

KNIGHT, DR. DALE A(LPHEUS), b. Manhattan, Kans, Apr. 9, 22; m. 46; c. 1. AGRICULTURAL ECONOMICS. B.S, Kansas State, 45; M.S, Cornell, 46; A.M, Chicago, 48, Ph.D.(econ), 52. Asst. prof. AGR. ECON, KANSAS STATE, 48-57, ASSOC. PROF, 57- Production economics; farm management. Publ: Economic considerations for selecting the superior frequency of fallow for wheat in three locations in Western Kansas, Kans. Agr. Exp. Sta. Tech. Bull; Evaluation of time series data for estimating supply parameters, In: Agricultural supply functions; co-auth, Analytical processes in farm management, In: Managerial processes of midwestern farmers. Address: 2320 Bailey Dr, Manhattan, Kans. 66502.

KNIGHT, DR. EARL L(AWRENCE), Econ, see 10th ed, Soc. & Behav. Vols.

KNIGHT, DR. EDWARD HENRY, b. New Orleans, La, June 14, 22; m. 51; c. 6. PSYCHIATRY, PSYCHOANALYSIS. B.S, La. State, 43, M.D, 45. Assoc. prof. PSYCHIAT, SCH. MED, LA. STATE, 51-67, CLIN. PROF, 67-; TRAINING ANALYST, NEW ORLEANS PSYCHOANAL. ASN, 64- Ment. health award, La. Asn. Ment. Health, 63. Med.C, U.S.A, 46-48, Capt. Fel. Psychiat. Asn; Psychoanal. Asn. Publ: Co-auth, The final examination in undergraduate psychiatry, an evaluation of undergraduate psychiatric teaching, Am. J. Psychiat, 7/59; auth, The psychiatric emergency, In: Psychiatry and the law, C.C. Thomas, 66; The general practitioner's method of obtaining psychological data, In: Psychology and general practice, Lippincott, 66. Address: 3600 Prytania St, New Orleans, La. 70115.

KNIGHT, DR. EDWARD R, b. Milwaukee, Wis, Oct. 5, 17; m. 41; c. 1. PSYCHOLOGY. A.B. & LL.B, Wisconsin, 41; A.M, N.Y. Univ, 42, Ph.D.(psychol), 43. Master, OXFORD ACAD, 41, psychologist, 42, head psychologist, 43, asst. headmaster, 45-47, HEADMASTER, 47- U.S.A.A.F, 43-45, Capt. AAAS; fel. Psychol. Asn. Address: Oxford Academy, Pleasantville, N.J. 08232.

KNIGHT, PROF. EWART B(ROUGHTON), Agr. Econ, see 10th ed, Soc. & Behav. Vols, deceased 65.

KNIGHT, PROF. FRANK H(YNEMAN), b. McLean Co, Ill, Nov. 7, 85. ECONOMICS. Ph.B, Milligan Col, 11; B.S. & A.M, Tennessee, 13; Ph.D, Cornell, 16; D.Litt, Princeton, 46; LL.D, Northwestern & Glasgow, 51, Rochester, 62; L.H.D, Columbia, 54, Illinois, 67. Instr. econ, Cornell, 16-17; CHICAGO, 17-19, prof, 27-52, HULL DISTINGUISHED SERV. EMER. PROF. SOC. SCI, 52- Assoc. prof, Iowa, 19-22, prof, 22-28. Econ. Asn.(v.pres, 35, pres, 50). Risk, uncertainty and profit; economic order and religion; freedom and reform; intelligence and democratic action. Address: Dept. of Social Sciences, University of Chicago, Chicago, Ill. 60637.

KNIGHT, DR. JAMES, Ed. Psychol, see 10th ed, Soc. & Behav. Vols.

KNIGHT, DR. JAMES A(LLEN), Psychiat, see 11th ed, Phys. & Biol. Vols.

KNIGHT, DR. KENNETH E, b. New Haven, Conn, Mar. 28, 37; m. 64. BEHAVIORAL & INFORMATION SCIENCE. B.S, Yale, 59; M.S, Carnegie Inst. Tech, 61, Ford Found. & Gen. Elec. fels. & Ph.D.(indust. admin), 63. ASST. PROF. BUS. ADMIN, STANFORD, 63- Consult, Rand Corp, 61-66; Int. Bus. Mach. Corp, 62-64; McKinsey, Inc, 63- Psychol. Asn; Sociol. Asn; Inst. Mgt. Sci; Asn. Comput. Mach. Information economics; organization theory; social psychology. Publ: The effect of effort on behavioral rigidity in a Luchin's water jar task, J. Abnorm. & Soc. Psychol, spring 63; A descriptive model of the intra-firm innovation process, J. Bus, 10/67; Organization communications, In: Handbook of communication, Rand McNally, (in press). Address: Dept. of Business, Stanford University Graduate Business School, Stanford, Calif. 94305.

KNIGHT, PROF. MELVIN M(OSES), b. McLean Co, Ill, Apr. 29, 87; m. 28. ECONOMICS. Ph.D.(sociol), Clark, 17. From assoc. prof. to prof. hist, Texas Christian, 14-16; asst. prof. govt, Hunter Col, 19-20; econ, Utah, 20-21; hist, Barnard Col, Columbia, 21-26; Amherst mem. fel, French Colonies, 25-28; assoc. prof. ECON, CALIFORNIA, BERKELEY, 28-30, prof, 30-54, EMER. PROF, 54- With U.S. Dept. State, 42-44. Rep, Am. Friends Serv. Cmt, Morocco, 60. U.S.A, 17-19. Econ. Asn; Hist. Asn; Econ. Hist. Asn. European and colonial economic development; dependent societies, especially economic aspects. Publ: Economic history of Europe; Morocco as a French economic venture; Introduction to modern economic history. Address: Dept. of Economics, University of California, Berkeley, Calif. 94720.

KNIGHT, DR. O(TIS) D(EWEY), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 64.

KNIGHT, DR. ROBERT E(DWARD) L(EE), b. Dallas, Tex, Feb. 19, 27; m. 54. ECONOMICS. A.B, Harvard, 48; Ph.D, California, 58. Res. econ, inst. indust. rels, California, 55-58; asst. prof. ECON, New Mexico, 59-60; MARYLAND, 60-62, ASSOC. PROF, 62- Staff dir, select subcmt. labor, U.S. House of Rep, 64-65. U.S.N, 45-46. Econ. Asn; Indust. Rels. Res. Asn. Union-management relations; labor history. Publ: Unionism among retail clerks in postwar Britain, Indust. & Labor Rels; Industrial relations in the San Francisco Bay area, 1900-18; The role and mission of the federal-state employment service system, Govt. Printing Off, 65. Address: Dept. of Economics, University of Maryland, College Park, Md. 20742.

KNIGHT, ROBERT SHERWOOD, b. Cleveland, Ohio, Apr. 26, 21; m. 49; c. 2. INDUSTRIAL PSYCHOLOGY. B.A, Miami (Ohio), 47; Western Reserve, 48-49. Job analyst, salary & wage div, Standard Oil.Co.(Ohio), 48-50, staff asst. employee rels, 50-52, MGR. employee rels, Lima Ref, 52-55, Sohio Chem. Co, 55-61, LABOR RELS, STANDARD OIL CO.(OHIO), 61- Asst, indust. rels. div, Cleveland Transit Syst, 49-50. U.S.A.A.F, 43-46, Sgt. Psychol. Asn. Dynamics of labor relations in a multi-bargaining unit company; effect of social climate and government on corporate labor relations; effect of personality characteristics in the negotiation of labor agreements. Address: Labor Relations Division, Standard Oil Co. of Ohio, 1548 Midland Bldg, Cleveland, Ohio 44115.

KNIGHT, DR. W(ALTER) REA, Comp. & Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KNIGHT, PROF. W(ILLIAM) D(ONALD), b. Beloit, Wis, Jan. 16, 16. FINANCE. A.B, Beloit Col, 38; M.B.A, Michigan, 40, Ph.D, 47. Asst. prof. COMMERCE, WISCONSIN, 45-47, assoc. prof, 47-54, PROF, 54-, DIR. CENTER FISCAL & BUDGETING STUDIES, 65-, from res. asst. to assoc. dir, bur. bus. res. & serv, 45-47, dir, 47-65. Consult, 49- Economic development; financial planning and control. Publ: Co-auth, Managerial budgeting, Macmillan, 64; auth, Income taxation; State budgeting. Address: 301A Commerce Bldg, University of Wisconsin, Madison, Wis. 53711.

KNIGHT, PROF. WILLIAM S(HAW), Bus. Admin, see 10th ed, Soc. & Behav. Vols.

KNIGHT, PROF. W(ILLYS) R(AYMOND), b. Whitewater, Wis, May 26, 17; m. 43; c. 3. ECONOMICS, BUSINESS ADMINISTRATION. B.A, Wisconsin, 38, M.A, 39; Illinois, 40-41; Ph.D.(agr. econ), Maryland, 49. Instr. econ, Miss. State, 39-40; asst, Illinois, 40-41; from instr. to asst. prof. econ, Mich. State, 46-51; from assoc. prof. to PROF. ECON, GA. STATE COL, 51-, DIR. BUR. BUS. & ECON. RES, 56- Pres, Assoc. Univ. Bur. Bus. & Econ. Res, 64-65. Econ. Asn. Managerial economics; rent control; impact of economics teaching. Publ: Contrib, Structure of American industry; co-auth, Professional education for business, St. Johns Univ, 64. Address: Georgia State College, 33 Gilmer St, S.E, Atlanta, Ga. 30303.

KNIGHTS, PETER R(OGER), U.S. Soc. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KNIGHTS, DR. ROBERT MELVILLE, b. London, Ont, Nov. 1, 34; m. 58; c. 2. PSYCHOLOGY. B.A, Western Ontario, 58; Ph.D.(psychol), Minnesota, 63. Asst. prof. psychol. & psychiat, Minnesota, 63-64; asst. prof. PSYCHOL, WESTERN ONTARIO, 64-66, ASSOC. PROF, 67- Res. consult, Children's Psychiat. Res. Inst, 64- Am. Psychol. Asn; Can. Psychol. Asn. Clinical child psychology; assessment of brain damage in children. Publ: Training suggestions for children with perceptual deficits, Ont. Asn. for Children with Learning Disabilities, 67; The use of computer test profiles in neuropsychological assessment, J. Learning Disabilities, 1: 475-485; Tactual discrimination in mongoloid, non-mongoloid and normal children, Am. J. Ment. Deficiency, 71: 894-900. Address: Dept. of Psychology, University of Western Ontario, London, Ont, Can.

KNIPMEYER, PROF. WILLIAM B, b. New Orleans, La, Jan. 15, 25; m. 45; c. 2. GEOGRAPHY, GEOLOGY. B.S, La. State, 47, M.S, 50, Ph.D, 56. Instr. geog, Bradley, 52-54; computer geophysics, West. Geophys. Co, 54-55; chemist, Columbia-South. Chem. Corp, 55-56; asst. prof. geol, McNeese State Col, 56-59, assoc. prof, geog, 59-67; PROF. SOC. SCI. & CHMN. DEPT, NORTHWEST. STATE COL.(LA), 67- U.S.N, 43-46. Asn. Am. Geog; Am. Geog. Soc. Ethnography of Louisiana. Address: Dept. of Social Sciences, Northwestern State College, Natchitoches, La. 71457.

KNITTEL, DR. MARVIN, b. Dallas, S.Dak, Dec. 24, 33; m. 55; c. 2. PSYCHOLOGY, EDUCATION. B.S, South Dakota, 55, M.A, 58, Ed.D.(ed. psychol, guid), 63; M.Ed, Missouri, Columbia, 61. Instr, pub. schs, S.Dak, 55-56; speech & hearing therapist, 56-60, counsr, 62-63; ASSOC. PROF. ED. PSYCHOL. & DIR. COUNSR. ED, KEARNEY STATE COL, 63- Lectr, inst. pastoral counseling, Omaha Cath. Churches, Nebr, 66. Consult. psychologist, Nebr. Pub. Schs, 63- Psychol. Asn; Personnel & Guid. Asn; Nat. Ed. Asn. Selection criterion for counselor education; parent counseling concerning child behavior. Address: Dept. of Education & Psychology, Kearney State College, Kearney, Nebr. 68847.

KNOBLOCH, DR. H(ILDA), Pediat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KNOELL, DR. DOROTHY M(ARIE), b. Patchogue, N.Y, Oct. 14, 21. EDUCATIONAL PSYCHOLOGY. A.B, Douglass Col, Rutgers, 43; M.A, Connecticut, 45; Ph.D.(ed), Chicago, 48. Res. assoc. ed, Chicago, 48-49; Wisconsin, 49-51; res. psychologist, Air Force Personnel & Training Res. Center, 51-55; personnel measurement specialist, schs. health professions, Pittsburgh, 55-56; consult, div. state cols, State Dept. Ed, Calif, 56-61; res. psychologist, center study higher ed, California, Berkeley, 61-65; res. consult. urban col. study, State Univ. New York Cent. Admin, 65-67; COORDINATOR, URBAN COMMUNITY COL. PROJ, AM. ASN. JR. COLS, 67- Asn. Instnl. Res; Psychol. Asn; Ed. Res. Asn; Nat. Coun. Measurement in Ed. Measurement and statistics; higher education; social psychology; urban, inner city problems; education for the disadvantaged. Publ: Co-auth, From junior to senior college: a national study of the transfer student, Am. Coun. Ed, 65; auth, Toward educational opportunity for all, State Univ. New York, 66. Address: Apt. 115, 300 M St. S.W, Washington, D.C. 20024.

KNOFF, DR. WILLIAM F, b. Syracuse, N.Y, Oct. 14, 21; m. 48; c. 3. PSYCHIATRY. M.D, Syracuse, 45. Intern PSYCHIAT, Syracuse Univ. Med. Center, 45-46; resident, Inst. Living, Hartford, Conn, 49-52; instr, STATE UNIV. N.Y. UPSTATE MED. CENTER, 52-53, asst. prof, 53-59, ASSOC. PROF, 59- Summer faculty mem, Syracuse, 56-, lectr, family, dept. soc. & anthrop, 65- Attend, Vet. Admin. Hosp, Syracuse, N.Y, 53-; attend. staff, Syracuse Psychiat. Hosp, 57-; assoc. attend. psychiatrist, Syracuse Mem. Hosp, 60- A.U.S, 46-48, Capt. Am. Med. Asn; fel. Psychiat. Asn. Psychotherapy; sociology of small groups; history of psychiatry. Publ: Role: a concept linking society and personality, 5/61 & The history of psychiatry in residency training: report of survey 11, 12/67, Am. J. Psychiat; Teaching historical psychiatry: a review of a course, Comprehensive Psychiat, 10/63. Address: Dept. of Psychiatry, State University of New York Upstate Medical Center, Syracuse, N.Y. 13210.

KNOOP, SISTER CATHERINE THERESE, b. Los Angeles, Calif, Nov. 19, 23. ECONOMICS. B.A, Mt. St. Mary's Col.(Calif), 53; M.A, St. Louis, 54; Ph.D. (econ), California, Berkeley, 57. Instr. ECON, Mt. St. Mary's Col.(Calif), 57-60, asst. prof, 60-63, assoc. prof, 63-64; Col. St. Rose, 64-65; MT. ST. MARY'S COL.(CALIF), 65-68; PROF, 68-, DIR. INSTNL. RES, 67- Economics-in-action summer fel, Wisconsin, 60. Social justice in the American economy and in the economies of underdeveloped countries. Publ: Problems of imbalance within and among economies, Rev. Soc. Econ, fall 62. Address: Dept. of Economics, Mt. St. Mary's College, 12001 Chalon Rd, Los Angeles, Calif. 90049.

KNOPF, DR. HENRY A(DOLF), b. Berlin, Germany, Oct. 4, 11; nat; m. 48; c. 5. ECONOMICS. B.S, Tech. Univ. Munich, Germany, 36; Halle & Breslau Univ, Germany, 36-37; Agr. Col. Sweden, 45; M.S, Columbia, 49; fel, Cornell, 54-57, Ph.D.(econ), 67. Cataloger & reference librarian, Cornell, 49-54; asst. prof. ECON, NIAGARA, 58-67, ASSOC. PROF, 67- Econ. Asn. Economic geography; international and agricultural economics. Publ: Den Fullandade Bridgespelaren; Land reform in East Germany, Farm. Econ. Address: 4645 Meadowbrook Rd, Niagara Falls, N.Y. 14305.

KNOPF, PROF. I(RWIN) J(AY), b. New York, N.Y, June 14, 24; m. 51; c. 3. PSYCHOLOGY. B.A, N.Y. Univ, 48; M.A, Northwestern, 49, U.S. Pub. Health Serv. fel, 51-52, Ph.D, 52. Clin. asst. nervous & ment. diseases, med. sch, Northwestern, 51-52, instr. psychol, col. arts & scis, 52; asst. prof. psychol, dept. psychiat, Iowa, 52-56, assoc. prof. & head dept, 56-58; assoc. prof. psychiat. & chief div. psychol, dept. psychiat, Southwest. Med. Sch, Texas, 58-62, prof. & chmn. div, 62-64; PROF. PSYCHOL. & CHMN. DEPT, EMORY, 64- Field selection officer, Peace Corps, 63-; mem. adv. bd, Tex. Bd. Psychol. Exam, 61-63; prfnl. adv. panel, Div. Ment. Health, Ga, 65-; participant, Gov. Conf. Ment. Health, 65. Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 44-45. Fel. Psychol. Asn; fel. Orthopsychiat. Asn. Psychopathology; cerebral functions; personality; learning theory. Publ: Relationship of manifest anxiety to stimulus generalization & Differences in gradients of stimulus generalization as a function of psychiatric disorder, J. Abnorm. & Soc. Psychol; The effects of social and non-social censure on stimulus generalization in neurotics and schizophrenics, J. Consult. Psychol. Address: Dept. of Psychology, Emory University, Atlanta, Ga. 30322.

KNOPF, DEAN KENYON A(LFRED), b. Cleveland, Ohio, Nov. 24, 21; m. 53; c. 1. ECONOMICS. A.B, Kenyon Col, 42; A.M. & Ph.D.(econ), Harvard, 49. Instr. econ, Grinnel Col, 49-51, asst. prof, 51-55, assoc. prof, 55-60, prof, 60-67 & Jentzen Prof, 61-67; PROF. ECON. & DEAN COL, WHITMAN COL, 67- Soc. Sci. Res. Coun. grant, 51-52. U.S.A.A.F, 43-46. Econ. Asn; Econ. Hist. Asn. Labor economics and industrial relations; industry studies; American economic history. Publ: Co-ed, Teaching of elementary economics, Holt, 60; co-auth, The market system, 66 & ed, Introduction to economics series, 66-67, Wiley. Address: 219 Marcus St, Walla Walla, Wash. 99362.

KNOPP, DR. JACKY, JR, b. Alexandria, Egypt, Sept. 15, 22; U.S. citizen; m. 47; c. 2. MARKETING. B.S, State Univ. N.Y. Buffalo, 55, M.B.A, 58, Ph.D.(mkt), 65. Bus. mgr. & head dept. math, Park Sch. Buffalo, 49-65; lectr. mkt, State Univ. N.Y. Buffalo, 55-60, asst. prof. mkt, asst. to dean & dir. grad. bus. progs, 60-67; ASSOC. PROF. MKT. & MGT, CANISIUS COL, 67- Atomic Energy Cmn. summer res. grant, 65. Consult, Bank of Buffalo, 57-; Lisk-Savory, U.S. Stamping & Alan Herschel Co, 67- Mgt. Asn; Asn. for Ed. Int. Business. Co-auth, Remedial math, Univ. Buffalo, 63; auth, What are commodities of like grade and quality?, J. Mkt, 10/63; Branding and the Robinson-Patman act, J. Bus, 1/66. Address: 211 Delamere Rd, Buffalo, N.Y. 14226.

KNORR, PROF. ERICH CARL, b. Buffalo Lake, Minn, Dec. 11, 99. SOCIOLOGY. A.B, State Col. Wash, 29, A.M, 30; Ph.D, Washington (Seattle), 46. Assoc. SOCIOL, Washington (Seattle), 45-46; asst. prof, Seattle Pacific Col, 46-49; PROF, PACIFIC LUTHERAN, 49-, head dept, 49-60, dean col. lib. arts & sci, 60-66. Publ: The family; Modern marriage; Marriage prediction. Address: Dept. of Sociology, Pacific Lutheran University, Box 2068, Tacoma, Wash. 98447.

KNORR, PROF. KLAUS E, b. Essen, Germany, May 16, 11; nat; m. 37; c. 3. ECONOMICS. LL.B, Tuebingen, 35; Ph.D, Chicago, 41. Res. assoc, food res. inst, Stanford, 41-45; assoc. prof. polit. sci. & res. assoc, inst. int. studies, Yale, 45-51; PROF. ECON, PRINCETON, 52-, DIR. CENTER INT. STUDIES, 61- Consult, Rand Corp; U.S. Dept. Army; U.S. Dept. Defense; U.S. Dept. State. Econ. Asn. International economic relations; problems of military power. Publ: Co-auth, International system: theoretical essays, 61 & auth, On the uses of military power in the nuclear age, 66, Princeton; co-auth, Limited strategic war, Praeger, 62. Address: Center of International Studies, Princeton University, Princeton, N.J. 08540.

KNORR, PROF. PHILIP NOEL, b. Mitchell, Nebr, Apr. 9, 16; m. 64. FOREST ECONOMICS. B.S, California, 38; M.F, Duke, 40; summer, Denver, 50; Ph.D, Minnesota, 63. Jr. forester, south. forest exp. sta, U.S. Forest Serv, 51; asst. res. forester, forest mgt. res. staff, Weyerhaeuser Co, Wash, 46-48; asst. prof. forest mgt, Oregon State, 48-51; asst. forestry, Minnesota, 54-56; instr, 56-59; assoc. forester & assoc. prof. FOREST ECON. & PHOTOGRAM, ARIZONA, 59-65, PROF. & FORESTER, 66- U.S.A.F, 42-46, 51-52, Capt. Econ. Asn; Soc. Am. Foresters; Soc. Range Mgt; Soc. Photogram; Agr. Econ. Asn; Forest Hist. Soc. Photo interpretation and photogrammetry; forest finance and management. Publ: Variations in fire-danger factors on the ranger district in the longleaf pine region, J. Forestry; Timber products in the Arizona watershed program: a case of multiple use, West. Agr. Econ. Res. Coun. Address: Dept. of Watershed Management, College of Agriculture, University of Arizona, Tucson, Ariz. 85721.

KNOTT, PROF. JOHN R(USSELL), Neurophysiol, see 11th ed, Phys. & Biol. Vols.

KNOWER, PROF. FRANKLIN H(AYWARD), b. Viroqua, Wis, Dec. 15, 01; m. 26; c. 2. PSYCHOLOGY. B.A, Northwestern, 25; M.A, Syracuse, 28; Ph.D.(psychol), Minnesota, 33. Prof. speech & head dept, Hastings Col, 25-26; instr, Syracuse, 26-28; Minnesota, 28-36, asst. prof, 36-39; assoc. prof, Iowa, 39-46; PROF. SPEECH, OHIO STATE, 46- Consult, Territorial Govt. Guam, 58. Ed, Proc, Ohio State; Speech Monogr, 51-53. AAAS; Psychol. Asn; Speech & Hearing Asn; Asn. Pub. Opinion Res; Speech Asn; Soc. Study Commun. Communicology; social science methodologies; psychology of speech and the audience. Publ: General speech; Communication in educational administration; Graduate work: communication, Speech Monogr. Address: Dept. of Speech, Ohio State University, 154 N. Oval Dr, Columbus, Ohio 43210.

KNOWLES, PRES. ASA S(MALLIDGE), b. Northeast Harbor, Maine, Jan. 15, 09; m. 30; c. 2. INDUSTRIAL ADMINISTRATION. A.B, Bowdoin Col, 30, LL.D, 51; Harvard, 30-31; A.M, Boston, 35; LL.D, Northeastern, 57, Emerson Col. & Toledo, 60; D.Litt, West. New Eng. Col, 61; Sc.D, New Eng. Col. Pharm, 62, Lowell Tech. Inst, 66, Bryant Col, 67; D.B.A, Rhode Island, 67. Asst. prof. indust. mgt, Northeastern, 31-35, prof. indust. eng. & head dept, 36-39, dean col. bus. admin. & dir. bur. bus. res, 39-42; dean sch. bus. admin. & dir. gen. col. exten, Rhode Island, 42-46; pres, Assoc. Cols. Upper N.Y, 46-48; v.pres, Cornell, 48-51; PRES, Toledo, 51-58; NORTHEASTERN, 59- Consult, Thompson & Lichtner Co, 43-46. Mem, Mass. Cmn. Ed, 63-

65; higher ed. facilities cmn, Commonwealth Mass, 64-; chmn. cmn. inst. higher ed, New Eng. Asn. Cols. & Secondary Schs, Inc, 66-; coun. fedn. regional accreditation, Cmns. Higher Ed, 66, joint cmt. grad. work, 67-; cmn. col. admin, Asn. Am. Cols, 66-; chmn, Army Adv. Panel R.O.T.C. Affairs, 67-68; bd. dirs, Nat. Shawmut Bank Boston, 61-; Shawmut Asn, Inc, 65-; corp, Provident Inst. Savings, 62-; trustee, Int. Col, 66- U.S. Army outstanding and distinguished civilian serv. medal, 66. Fel. Am. Acad. Arts & Sci. Management. Publ: Job evaluation for hourly and salaried workers, 43; co-auth, Industrial management, 44 & Production control, 44. Address: Northeastern University, 360 Huntington Ave, Boston, Mass. 02115.

KNOWLES, PROF. ELMER M(YLER), b. Lund, Idaho, July 30, 20; m. 41; c. 3. CHILD PSYCHOLOGY. B.S, Utah State Agr. Col, 49, M.S, 50; Grant Found. fel, Merrill-Palmer Sch, 50-51, Cornell, 51-52, univ. fel. & Ph.D. (child develop. & family rels), 52. Asst, Utah State Agr. Col, 48-50; asst. prof. child develop, Mich. State Col, 52-55; assoc. prof. child develop. & family rels, Wyoming, 55-57; prof. home & family life & head dept, sch. home econ, Tex. Tech. Col, 57-62; PROF. HUMAN DEVELOP. & FAMILY RELS, BRIGHAM YOUNG, 62- U.S.A.A.F, 43-46. Nat. Coun. Family Rels. Address: Dept. of Human Development & Family Relationships, Brigham Young University, Provo, Utah 84601.

KNOWLES, DR. HENRY PAINE, JR, b. Dec. 30, 12; U.S. citizen; m. 37; c. 2. BUSINESS ADMINISTRATION. B.S, U.S. Naval Acad, 35; M.B.A, Harvard, 47; Ph.D.(bus. admin), Stanford, 61. Lectr. personnel admin, Stanford, 54-55, proj. coordinator, army transportation res. proj, 55-56; asst. prof. human rels, WASHINGTON (SEATTLE), 57-62, ASSOC. PROF. ORGN. BEHAV, 62- Consult, City of Seattle, Pac. Northwest Bell Tel. Co, Fed. Housing & Home Finance Agency & U.S. Army Engrs, 60- Eliot Jones award, West. Econ. Asn, 61. U.S.N, 35-52, Comdr. Acad. Mgt. Interpersonal relations in organizations. Publ: Co-auth, Seattle monorail demonstration study, Univ. Washington. 62; Human relations-quo vadit?, Mgt. Int, Vol. 4, No. 2; Human relations and the nature of man, Harvard Bus. Rev, 3-4/67. Address: Graduate School of Business Administration, University of Washington, Seattle, Wash. 98105.

KNOWLES, JAMES W(ILEY), b. Chattanooga, Tenn. Nov. 6, 13; m. 36. ECONOMICS. B.S.S. City Col. New York, 36; A.M, Columbia, 39. Tutor econ. City Col. New York, 38-44; sr. economist, Economet. Inst. Inc, N.Y, 44-50; staff economist, JOINT ECON. CMT, U.S. CONG, 50-62, exec. dir, 63-66, DIR. RES. 67- Statistician, res. proj. postwar econ. probs, N.Y, 44. Econ. Asn; fel. Statist. Asn; Economet. Soc. Economic fluctuations, growth and forecasting; consumption. Publ: a guide to the use of statistics; Productivity, prices, and incomes: Potential economic growth in the United States. Address: 6005 Berkshire Dr. Bethesda. Md. 20014.

KNOWLES, PROF. REX HANNA, b. Kansas City, Mo, Jan. 10, 18; m. 43; c. 5. PSYCHOLOGY. A.B, Wesleyan, 40; B.D, Yale, 43; M.A, Nebraska, 52, Ph.D. (psychol), 58; hon. D.D, Hastings Col, 55. Assoc. pastor, United Congregational Church, Conn, 43-45; pastor; Cochran Mem. Presby. Church, N.Y, 45-49; univ. pastor, Nebraska, 50-59; dean. chapel, CENTRE COL, 60-66, PROF. PSYCHOL, 66- Nat. Sci. Found. teacher, 67. Chief psychologist, Bluegrass Comprehensive Care Center, Danville, Ky, 68- Clinical psychology; adolescent development; personality theory; counseling teaching. Address: Dept. of Psychology, Centre College, Danville, Ky. 40422.

KNOWLES, DR. WILLIAM B(OOKER), JR, b. Cleveland, Ohio, May 12, 26; m. 49; c. 3. PSYCHOLOGY. B.S. Ill. Inst. Tech, 47; M.S, Northwestern, 49, Ph.D.(psychol), 51. Instr, Rochester, 51; res. psychologist, Naval Res. Lab, 51-55; chmn. dept. psychol, Millsaps Col, 55-56; eng. psychologist, adv. electronics center, Gen. Elec. Co, 56-60, gen. eng. lab, 60-61; mem. tech. staff, Hughes Aircraft Co, 61-67; SR. SCIENTIST, Technomics Inc, 67-68; DUNLAP & ASSOCS. INC, 68- U.S.N, 44-46. Psychol. Asn; Human Factors Soc; Asn. Comput. Mach. Engineering psychology; perceptual-motor behavior; computer-based systems. Address: 249 18th St, Santa Monica, Calif. 90402.

KNOWLES, PROF. WILLIAM H(ENRY), b. Battle Creek, Mich, Mar. 2, 19; m. 42; c. 2. ECONOMICS. B.S, Iowa State Col, 40; M.A, Wisconsin, 42, Ph.D, 48. Asst. prof. econ, Humboldt State Col, 47-49; assoc. prof, Mich. State, 49-56; labor rels, dept. bus. admin, California, 56-60; PROF. ECON. & CHMN. DEPT, UNIV. & DIR. INDUST. RELS. STUDY CENTER, INTER-AM. UNIV. P.R, 60- Fulbright fel, B.W.I, 53-54. Manpower programmer & adv. econ. planning bd, Uruguay, Int. Labor Off, 63-64, economist & trainer of skilled manual workers, Geneva, 67-68. U.S.A.A.F, 44-46. Econ. Asn; Arbit. Asn; Indust. Rels. Res. Asn. Industrial relations in underdeveloped areas. Publ: Personnel management, a human relations approach; Trade union development and industrial relations in the British West Indies. Address: Industrial Relations Study Center, Inter-American University of Puerto Rico, San German, P.R. 00753.

KNOWLTON, DR. CLARK S(HUMWAY), b. Salt Lake City, Utah, Dec. 31, 19; m. 48; c. 4. SOCIOLOGY. B.A, Brigham Young, 48, M.A, 49; Ph.D. (sociol), Vanderbilt, 55. Assoc. prof. soc. sci, Ga. South. Col, 52-58; New Mexico Highlands, 58-62; prof. sociol, Texas, El Paso, 62-68, chmn. dept, 63-68; DIR, INST. STUDY SOC. PROBS, UNIV. UTAH, 68- Chmn, San Miguel County Area Redevelop. Cmt, 60-62; Asn. Adv. North. N.Mex, 60-62; mem. bd. dirs, N.Mex. Conf. Soc. Welfare, 60-64; Our Lady's Youth Center, 63-; El Paso Boys' Club, 64-; mem. adv. cmt. for Tex, Nat. Ed. Agencies Proj. Int. Ed, 66; bd. dirs, Proj. BRAVO, 66. U.S.A, 42-46. AAAS; Rural Sociol. Soc; Acad. Polit. & Soc. Sci; Sociol. Soc; Nat. Coun. Family Rels; Soc. Sci. Study Religion; Anthrop. Asn. Rural-urban sociology; Latin American culture area; southwestern minority groups; family and social ecology. Publ: Today's Southwestern Indian: their plight and their hope, West. Rev, winter 65; A study of social mobility among the Syrians and Lebanese community of Sao Paulo, Brazil, Rocky Mt. Soc. Sci. J, 65; Patron-peon pattern among the Spanish Americans of New Mexico, In: The disadvantaged learner, Chandler Pub, 66. Address: Institute for the Study of Social Problems, University of Utah, Bldg. 401, Salt Lake City, Utah 84112.

KNOWLTON, DR. JAMES Q(UINCY), b. Salt Lake City, Utah, Aug. 30, 24; m. 47; c. 3. PSYCHOLOGY. B.S, Brigham Young, 49; fel, California, Los Angeles, 51-53, M.A, 52, Ph.D.(psychol), 58. Asst. psychol, Brigham Young, 49; California, Los Angeles, 53-55, instr, Far East Exten, 55-56; Idaho State Col, 56-58; asst. prof. ED, INDIANA, 58-63, ASSOC. PROF, 63-, Nat. Defense Ed. Act res. grant, audio visual commun. center, 59- Summer res. assoc, Soc. Sci. Res. Coun, 55. Consult, Westvaco Mineral Prod, 57. U.S.A.A.F, 43-46, 2nd Lt. AAAS; Psychol. Asn; Nat. Ed. Asn; Asn. Pub. Opinion Res. Propaganda and public opinion; human communication and psycholinguistics; culture-personality relationships; theory of nonverbal communication; patterns of influence in small groups. Publ: Simulacrics: an anachronism? & On the definition of picture, Audio-Visual Commun. Rev, summer 66; Need for a conceptual rationale for the audio-visual field, Ind. Sch. Ed. Bull. Address: Audio-Visual Communications Center, Indiana University, Bloomington, Ind. 47401.

KNOWLTON, BRIG. GEN. WILLIAM ALLEN, U.S.A, b. Weston, Mass, June 19, 20; m. 43; c. 4. POLITICAL SCIENCE, ECONOMICS. B.S, U.S. Mil. Acad, 43; A.M, Columbia, 57; Nat. War Col, 59-60. U.S. ARMY, 43-, mem. gen. staff, 47-49, spec. asst. to chief staff, SHAPE, France, 51-53, spec. asst. to comdr, 53-54, assoc. prof. soc. sci, U.S. Mil. Acad, 55-58, army attaché, Am. Embassy, Tunisia, 61-63, armor brig. commander, Ft. Knox, Ky, 63-64, div. chief, Army Staff, Wash, D.C, 64-65, mil. asst. to spec. asst, Secy. Defense, 65-66, dep. asst. chief staff, Mil. Assistance Command Vietnam, 66-68. ASST. COMDR. 9TH INFANTRY DIV. VIETNAM DELTA. 68- Distinguished Serv. medal; Silver Star & Oak Leaf Cluster; Legion of Merit; Air Medal; Fourragere, Belgian Croix de Guerre. Econ. Asn; Acad. Polit. & Soc. Sci. International organization and economics; counterinsurgency in Asia; North African political problems; economics of under developed areas. Publ: Conscription & Military manpower, In: Encyclopedia Americana; Early organization of SHAPE, Int. Orgn. Address: West Springfield, N.H. 03284.

KNOX, PROF. FRANK A(LBERT), b. Orono, Ont, Jan. 11, 95. ECONOMICS. B.A, Queen's (Ont), 23, LL.D, 65; Harvard, 23-24; summers, Chicago, 24, 26, 30; LL.D, Toronto, 62. Mem. faculty, QUEEN'S (ONT), 24-51, prof. ECON, 51-64, head dept. polit. & econ. sci, 51-56, EMER. PROF, 64- Ed, Can. Banker, 40-57. Am. Econ. Asn; Can. Econ. Asn.(v.pres, 40, pres, 46); fel. Royal Soc. Can. International economic relations; Canada's balance of international payments; Dominion monetary policy. Address: Dept. of Economics, Queen's University, Kingston, Ont, Can.

KNOX, PROF. GEORGE W, b. U.S, Apr. 16, 11; m. 41; c. 3. PSYCHOLOGY. B.A, Denison, 33; M.A, Ohio State, 36, Ph.D, 40, B.Sc.(optom), 52. Res. assoc. psychiat, Billings Hosp, 41-42; assoc. prof. optom, Ohio State, 47-62. Private practice psychol, 62- Med.Serv.C, 42-47, Lt. Comdr. Psychol. Asn; Optom. Asn; Asn. Res. Ophthal; Acad. Optom. Electroencephalography. Publ: Light, vision and lenses; Save your vision, Am. J. Optom. Address: 336 E. State St, Columbus, Ohio 43215.

KNOX, PROF. J(OHN) B(ALLENGER), b. Mayesville, S.C, Sept. 16, 09; SOCIOLOGY. A.B, Davidson Col, 30; univ. scholar. & A.M, North Carolina, 34; univ. fel. & Ph.D, Harvard, 39. Instr. Eng. & sociol, American Univ. Beirut, 30-32; asst. & tutor sociol, Harvard, 34-36; dir, Surv. Employ. in Industry, Pa, 36-37; exec. secy, Students Int. Union, N.Y. & Switz, 37-38; assoc. prof. sociol, Ala. Col, 40-42; TENNESSEE, 47-49, PROF. SOCIOL. & DIR. BUR. SOCIOL. RES, 49- Chief employee rels, War Prod. Bd, 42; vis. prof, Buenos Aires, Argentina, 57; vis. lectr, Nat. Univ. Colombia, 59. U.S.N.R, 42-46. Sociol. Asn. Industrial and administrative sociology. Publ: The sociology of industrial relations; Absenteeism and turnover in An Argentine factory; The concept of exchange in sociological theory, Soc. Forces, 5/63. Address: Dept. of Sociology, University of Tennessee, Knoxville, Tenn. 37916.

KNOX, NEWTON BOOTH, b. London, Eng, Mar. 3, 10; U.S. citizen; m. 41. ECONOMIC STATISTICS. A.B, Stanford, 31; M.A, California, 38. Prof. econ. geol. & dir, Inst. Geol, Caracas, Venezuela, 38-41; explor. engr, S.Am. Develop. Co, Ecuador, 42-44; res. analyst, Indust. Col. Armed Forces, Wash, D.C. 45-47; ECONOMIST & ADV. TO U.S. BUR. CENSUS, Govt. Peru, 47-49; Chile, 50; El Salvador, 51; Jordan, 52; Uruguay, 53-56; Vietnam 57-63; Cent. Am. Repub, 63- Regional statist. adv, Regional Off. Cent. Am. & Panama for Agency Int. Develop, Guatemala, 63-, acting chief, pub. sector develop. div, 65- Econ. Asn; Statist. Asn; Inst. Min, Metall. & Petrol. Eng. Economic statistics, administration and procedures; mining economics; economic geology. Publ: Factors affecting investment in South American mining: Procurement of materials abroad by U.S. Government agencies during World War II: Industrial censuses of American nations. Address: International Statistical Programs Office, U.S. Bureau of the Census, Washington, D.C. 20233.

KNOX, DR. ROBERT E, b. Los Angeles, Calif, Mar. 8, 29; m. 54; c. 3. PSYCHOLOGY. B.A, Occidental Col, 52, M.A, 53; U.S. Pub. Health Serv. fel, Oregon, 58-62, Ph.D.(psychol), 63. Asst. prof. psychol, Occidental Col, 62-63; res. scientist, HumRRO, 63-64; ASST. PROF. PSYCHOL, BRITISH COLUMBIA, 64- Can. Coun. res. grant, 67-69. U.S.N.R, 53-57, Lt. Psychol. Asn. Cognitive consistency theory; development of social reasoning in children; trust and suspicion in small groups. Publ: Co-auth, Effects of variation of profile format on intelligence and sociability judgments, J. Appl. Psychol, 62; auth, Post-decision dissonance at post time, J. Personality & Soc. Psychol, 4/68. Address: Dept. of Psychology, University of British Columbia, Vancouver 8, B.C, Can.

KNOX, DR. ROBERT LEE, b. Enid, Okla, Jan. 15, 32; m. 58; c. 2. ECONOMICS. B.S, Okla. State, 54, M.S, 58; Ph.D.(econ), North Carolina, 63. Asst. prof. ECON, Col. William & Mary, 61-63; ARIZONA STATE, 63-66, ASSOC. PROF, 66- Econ. Asn. Competition and monopoly in American industry; structure, conduct and performance in oligopolistic markets; antitrust policy. Publ: Corporate size: I, Bus. Topics, spring 65; Competitive oligopolistic pricing, J. Mkt, 7/66. Address: Dept. of Economics, Arizona State University, Tempe, Ariz. 85281.

KNUDSEN, DR. DEAN DeWAYNE, b. Harlan, Iowa, July 8, 32; m. 56; c. 2. SOCIOLOGY. B.A, Sioux Falls Col, 54; B.D, Berkeley Baptist Divinity Sch, 57; M.A, Minnesota, 61; Ph.D.(sociol), North Carolina, 64. Dir, Baptist

Student Found. Minn, 57-60; ASST. PROF. SOCIOL, OHIO STATE, 64- Sociol. Asn; Nat. Coun. Family Rels; Soc. Sci. Study Relig. Sociology of family and religion. Publ: Co-auth, Premaritally pregnant patients of physicians, Monogr. IRSS, 63; Premarital sexual norms, the family and social change, J. Marriage & Family, 65; Response differences to questions . . , Pub. Opinion Quart, 67. Address: Dept. of Sociology & Anthropology, Ohio State University, Columbus, Ohio 43210.

KNUDTEN, DR. RICHARD D, b. Yokohama, Japan, June 19, 32; U.S. citizen; m. 58; c. 4. SOCIOLOGY. A.B, Wittenberg, 54; B.D, Pac. Lutheran Theol. Sem, 57; M.A, Pac. Sch. Relig, 57; M.A, California, Berkeley, 59; M.A, Western Reserve, 59, Ph.D.(sociol. of relig), 64. Lectr. SOCIOL, Baldwin-Wallace Col, 59-61; instr, Col. Wooster, 61-64; ASSOC. PROF. & HEAD DEPT, Newberry Col, 64-66; VALPARAISO, 66- Lectr, Bowling Green State, 63-64; assoc. faculty mem, northwest campus, Indiana, 66- Consult, urban church planning dept, Nat. Lutheran Coun, 58-64. Sociol. Asn; Soc. Sci. Study Relig; Soc. Study Social Probs; Relig. Res. Asn; Correctional Asn; Nat. Coun. Crime & Delinquency. Criminology and penology; sociology of religion; social theory; ethnic minorities. Publ: Sociology of religion, 67 & Criminological controversies, 68, Appleton; Systematic thought of Washington Gladden, Humanities, 68. Address: Dept. of Sociology, Valparaiso University, Valparaiso, Ind. 46383.

KNUTSEN, DR. MACK, b. Onalaska, Wash, Oct, 16, 27; m. 50; c. 2. CLINICAL PSYCHOLOGY. Ph.D.(psychol), Washington (Seattle), 55. Clin. psychologist, Vet. Admin. Center, Togus, Maine, 55-56, Vet. Admin. Ment. Health Clin, San Diego, Calif, 56-58; chief psychologist, West. State Hosp, Ft. Steilacoom, Wash, 58-61; SUPVR. div. ment. health, DEPT. INSTS, 61-67, DIV. PLANNING, 67- U.S.A, 46-47. Psychol. Asn. Application of reinforcement theory to behavior disorder in a mental hospital setting. Address: Division of Planning, Dept. of Institutions, Box 768, Olympia, Wash. 98501.

KNUTSON, PROF. ANDIE L(EONARD), b. Holt, Minn, May 20, 11; m. 42; c. 2. PSYCHOLOGY. B.A, Minnesota, 38; Columbia, 41-42; Soc. Sci. Res. fel, Princeton, 46-48, M.A, 48, Ph.D.(soc. psychol), 49. Statistician, Am. Tel. & Tel. Co, N.Y, 41-42; soc. sci, analyst, off. war info, Bur. Intel, D.C, 42; study dir, prog. surys. div, bur. agr. econ, U.S. Dept. Agr, 46; lectr. & assoc. dir. off. pub. opinion res, Princeton, 47-48; chief res. & eval. br, div. pub. health ed, U.S. Pub. Health Serv, 48-54, chief behav. studies, div. gen. health serv, 54-57; lectr. pub. health & dir, behav. sci. proj, sch. pub. health, CALIFORNIA BERKELEY, 57-64, PROF. BEHAV. SCI. & RES. BEHAV. SCIENTIST, SCH. PUB. HEALTH & INST. HUMAN DEVELOP, 64- Vis. lectr, Howard, 54-55; Nat. Insts. Health res. career develop. award, 64- Consult, State Dept. Pub. Health, Calif. Mem. exec. cmt, Coop. Cmn. Study Alcoholism; chmn. community servs. adv. cmt, Nat. Inst. Ment. Health, 60, mem. Ment. Health Proj. Grants Rev. Cmt. & consult, inst. U.S.N.R, 42-46, Lt.(jg). Fel. Psychol. Asn; fel. Pub. Health Asn; fel. Sociol. Asn; Acad. Polit. & Soc. Sci. Communication; personal security; behavioral sciences; public health; values, beliefs and definitions related to life. Publ: Individual, society and health behavior, Russel Sage Found, 65. Address: 504 Earl Warren Hall, University of California, Berkeley, Calif. 94720.

KOBAYASHI, DR. TERUO, b. Sasebo, Nagasaki, Japan, Apr. 15, 32; m. 59. POLITICAL SCIENCE. B.A, Chattanooga, 55; M.A, Emory, 56; Ph.D.(polit. sci), Florida, 60. ASST. PROF. POLIT. SCI, Washington Col, 60-63; ELMIRA COL, 63- Summer res. grants, Res. Coun. Col. Center Finger Lakes, 64. Polit. Sci. Asn; Am. Soc. Int. Law. International politics; law; the U.S-Japan security treaty of 1960 and its fate in the 1970's. Publ: The Anglo-Norwegian fisheries case of 1951, Univ. Florida, 65; A great debate in Japan: the fate of the U.S-Japan security treaty in 1970, J. Polit, 8/68. Address: Dept. of Political Science, Elmira College, Elmira, N.Y. 14901.

KOBLER, DR. ARTHUR L(EON), b. New York, N.Y, May 18, 20; m. 47; c. 1. PSYCHOLOGY. B.B.A, City Col. New York, 41; A.M, Columbia, 46; Ph.D.(clin. psychol), Kansas, 52. Clin. psychol. intern, Winter Vet. Admin. Hosp, Topeka, Kans, 46-50; chief clin. psychologist, Pinel Found, 51-54, res. dir, 54-58; Ryther Child Center, 58-61; assoc. clin. prof. elec. eng, Washington (Seattle), 61-66; CONSULT, YOUTH OPPORTUNITY CENTER, 66- Nat. Inst. Ment. Health res. grant, 56-59. Private practice, 61- U.S.C.G, 42-45, Lt.(jg). Psychol. Asn. Psychotherapy; suicide; peace research; violence; noncriminal homicides. Publ: Co-auth, The end of hope: a clinical-social psychological study of suicide, Macmillan, 64; Life and death of a mental hospital, Univ. Washington, 65; Man-computer relationship, Science, 11/62. Address: 1107 N.E. 45th, Room 310, Seattle, Wash. 98105.

KOBLER, DR. FRANK J, b. Chicago, Ill, Apr. 6, 15; m. 41; c. 8. PSYCHOLOGY. Fel. & M.A, Niagara, 37; fel. & Ph.D.(ed. psychol), Chicago, 42. Psychologist, behav. res. fund, inst. juvenile res, Chicago, 41-42; civilian psychologist, U.S. War Dept. 42-43; clin. psychologist, U.S. Dept. Army, 43-46; asst. prof. PSYCHOL, LOYOLA (ILL), 46-49, assoc. prof, 49-52, PROF, 53-, DIR, CLIN. TRAINING PROG, 55- Vis. prof, Nebraska, 48. Dir, Chicago Center Psychol. Serv, 48-; dir, U.S. Pub. Health Training grant, 67- Consult, Loyola Center Guid. & Psychol. Serv, 48-; Vet. Admin; Ill. Youth Cmn, 62; Chicago Alcoholic Treatment Center, 62; Archdiocesan Sem, Chicago, 60-67; New Orleans, 65-67. Fel. Psychol. Asn. Diagnostic testing; psychotherapy; learning. Publ: Co-auth, General psychology; Human person; auth, Casebook in psychopathology, Alba, 64. Address: Dept. of Psychology, Loyola University, Chicago, Ill. 60611.

KOBLITZ, PROF. ROBERT J, b. Cleveland, Ohio, Aug. 25, 21; m. 46; c. 3. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. B.A, Ohio State, 42; Syracuse, 42; M.P.A, Harvard, 47, M.A, 48, Ph.D, 50. Instr. GOVT, Harvard, 50-51; assoc. prof, BARD COL, 51-65, PROF, 65- Fulbright exchange prof, Univ. Baroda, India, 55-56; Nanzan Univ, Japan, 67-68; exec. asst, Con. Bd. Asn. Res. Coun, Cmn. Int. Exchange of Persons, 57-58; assoc. dir, govt. & higher ed. study, Carnegie Found. Adv. Teaching, 60-62. Consult, Wage Stabilization Bd, 50; Mutual Security Agency, 51-54. Mem, Fulbright Selection Cmt. for India, 60-61. Polit. Sci. Asn; Japan Soc. Theory of political parties; federal government programs in the United States; comparative study of Indian higher education. Publ: Contrib, Fundamentals of political science; auth, Political parties: choice or echo?, Heath, 68. Address: Division of Social Studies, Bard College, Annandale-on-Hudson, N.Y. 12504.

KOBRICK, DR. JOHN L(EO), b. Hazelton, Pa, Sept. 11, 25; m. 54. EXPERIMENTAL PSYCHOLOGY. B.S, Pa. State, 48, M.S, 50; Ph.D.(exp. psychol), 53. Res. psychologist, Qm. Res. & Develop. Command, U.S. DEPT. ARMY, 53-57, chief, human eng. sect, psychol. br, Qm. Res. & Eng. Command, 57-64, HEAD SENSORY-PERCEPTUAL FUNCTIONS GROUP, RES. INST. ENVIRON. MED, 64- Mem, Nat. Acad. Sci-Armed Forces Cmt. Vision, 58-Psychol. Asn; Human Factors Soc. Human engineering; experimental design; learning theory. Publ: Relationships among three measures of response strength as a function of the numbers of reinforcements, J. Comp. & Physiol. Psychol; co-auth, Commonplace viewing and depth discrimination, J. Optical Soc. Am; auth, Effects of physical location on visual stimuli on intentional response time, J. Eng. Psychol, 65. Address: Behavioral Sciences Lab, U.S. Army Research Institute of Environmental Medicine, Natick, Mass. 01760.

KOCH, DR. ALBERT R(ALPH), Econ, see 10th ed, Soc. & Behav. Vols.

KOCH, DR. ALBERT WINFIELD, b. U.S, Aug. 6, 21; m. 42; c. 2. AUDIOLOGY. B.A, Tufts, 48, M.A, 50; fel, Boston, 53-55, Ed.D, 56. Teacher, high sch, Mass, 48-51; Conn, 51-53; audiologist, Liberty Mutual Ins. Co, 55-57; chief audiologist, Mass. Eye & Ear Infirmary, 57-66; ASSOC. PROF. PSYCHOL, MASS. STATE COL. BOSTON, 66- Lectr, Tufts, 57-62; Northeastern, 57-62; res. assoc, San Francisco State Col, 57; asst, Harvard Med. Sch, 57. Consult, Hitchcock Clin, N.H, 58-62. Mem. res. coun, Nat. Coun. Except. Children, 60-62. Psychol. Asn. Auditory perception; sensory deprivation; mental retardation. Publ: Psychogenic deafness, Ann. Otology; Industrial deafness, Volta Rev. Address: 452 Pleasant St, Malden, Mass. 02148.

KOCH, PROF. A(LFRED) ROBERT, b. Irvington, N.J, Apr. 1, 31; m. 54; c. 3. AGRICULTURAL ECONOMICS. B.S, Rutgers, 53; M.S, Purdue, 55, Ph.D. (agr. econ), 59. Asst. AGR. ECON, Purdue, 53-55, 57-59; asst. prof, RUTGERS, 59-62, assoc. prof, 62-67, PROF, 67- U.S.A, 55-57, 1st Lt. Agr. Econ. Asn; Regional Sci. Asn. General economics; market structure and analysis; research methodology. Publ: Linear programming applied to location and product flow determination in the tomato processing industry, J. Regional Sci; Comparative advantage and the agricultural economics undergraduate curricula, J. Farm Econ. Address: Dept. of Agricultural Economics, Rutgers, The State University, New Brunswick, N.J. 08901.

KOCH, PROF. EDWARD G(EORGE), Econ, Bus. Admin, see 10th ed, Soc. & Behav. Vols.

KOCH, E(LLERY) JAMES, Statist, see 11th ed, Phys. & Biol. Vols.

KOCH, PROF. HELEN L(OIS), b. Blue Island, Ill, Aug. 26, 95. PSYCHOLOGY. Ph.B, Chicago, 18, fel, 19-21, Ph.D.(psychol), 21. Instr. ed. psychol, Texas, 21-22, adj. prof, 23-24, assoc. prof, 25-26, prof, 27-28, grad. prof, 29; assoc. prof. child psychol, CHICAGO, 29-42, coordinator, nursery sch, 38-48, prof, 42-60, EMER. PROF, 60- Mem. cmt. child care, Off. Civilian Defense, Greater Metrop. Area, 42-47, training cmt. child care aides, 42-45; rev. cmt, Personnel of Defense Nurseries, Chicago, Ill, 42-45. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn.(G. Stanley Hall award, 67); fel. Soc. Res. Child Develop; Psychomet. Soc. Child, experimental and social psychology; twins' interrelations, social and biological. Publ: Twins and twin relations, Univ. Chicago Press, 66. Address: Dept. of Psychology, University of Chicago, Chicago, Ill. 60637.

KOCH, PROF. JOHN B(RANDHORST), b. Chicago, Ill, July 4, 28; m. 50; c. 2. ECONOMICS. B.A, Blackburn Col, 50; M.A, Arkansas, 54, Ph.D.(econ), 59. Asst. prof. ECON, Ark. State Teachers Col, 55-58; vis. prof, Blackburn Col, 58-59; assoc. prof, Southeast Mo. State Col, 59-60; PROF, Ill. Col, 60-67; BLACKBURN COL, 67- Econ. Asn. Public finance. Publ: Co-auth, Value of current services of state and local government, Duquesne Rev, spring 66. Address: Dept. of Economics, Blackburn College, Carlinville, Ill. 62626.

KOCH, PROF. MARGARET BODY, Child Psychol, see 10th ed, Soc. & Behav. Vols.

KOCH, SISTER MARY ROSEWYN, b. Ft. Madison, Iowa, Nov. 24, 04. SOCIOLOGY. B.A, Maryville Col.(Mo), 27; M.A, Notre Dame, 40; Ph.D. (sociol), St. Louis, 63. Instr. SOCIOL, NOTRE DAME COL.(MO), 58-61, PROF, 63- Sociol. Asn. Social theory and organization; political sociology. Address: 320 E. Ripa Ave, St. Louis, Mo. 63125.

KOCH, PROF. SIGMUND, Psychol, see 10th ed, Soc. & Behav. Vols. Latest known address: Dept. of Philosophy & Psychology, University of Texas, Austin, Tex. 78712.

KOCH, PROF. WALTER F, b. Hamburg, Germany, Oct. 7, 22; U.S. citizen, m. 45; c. 4. POLITICAL & REGIONAL GEOGRAPHY. B.A, Alabama, 56, M.A, 57, Ph.D.(int. studies & econ), 61. Res. asst. pub. admin, ALABAMA, 55-57, instr. polit. sci. & geog, 57-61, asst. prof. GEOG, 61-65, assoc. prof, 65-67, PROF, 67- Univ. Alabama res. grant urban consolidations, 65-67. U.S.A.F, 43-54, 1st Lt. Asn. Am. Geog; Nat. Coun. Geog. Ed. Population movement and urbanization in Alabama; political problems resulting from urbanization; geographic instruction at the college level in Alabama. Publ: Co-auth, Municipal debt in Alabama, 58 & Government of Huntsville, Alabama, 59, Ala. Bur. Pub. Admin; co-auth, Alabama, In: The book of knowledge, Grolier Soc, 65. Address: Dept. of Geography, University of Alabama, Box 1945, University, Ala. 35486.

KOCHAN, PROF. PAUL C(RANSTON), b. Maysville, Mo, June 24, 06; m. 29; c. 2. SOCIOLOGY. A.B, Baker, 29; A.M, Michigan, 31, 33; Kansas, summers, 38-41. Instr. speech, Mich. State Col, 29-30; asst. prof, BAKER, 31-35, SOCIOL, 35-40, PROF, 41-, dean men, 34-40, dir. student promotion & placement, 41-47, secy. faculty, 47-53, chmn. div. soc. sci, 61-68. Mem.

pilgrimage study tour European relig. insts, 56; Fla. State Univ. European study tour family life, 61; vis. res. scholar, Doshisha, Japan, 66-67. Consult, State Dept. Soc. Welfare, Kans. Mem. prfnl. adv. cmt, dept. soc. work, Univ. Kansas. Asst. field dir, Am. Nat. Red Cross, 42-46. Sociol. Asn; Nat. Coun. Family Rels. Comparative family systems, especially Japanese, Soviet and United States; Marriage and family; history and theory of sociology; social work. Publ: Outlines of sociology; Recent trends in religion in the state of Kansas; Capital punishment and penal reform, State Coun. Churches, Kans, 62. Address: Dept. of Sociology, Baker University, Baldwin, Kans. 66006.

KOCHEN, DR. MANFRED, Info, Sci, see 11th ed, Phys. & Biol. Vols.

KODMAN, PROF. FRANK, JR, b. Twin Rocks, Pa, Aug. 3, 20; m. 48; c. 3. PSYCHOLOGY. B.S, Pittsburgh, 49, B.A, 50, M.A, 51; Ph.D.(psychoacoustics), Illinois, 54. Asst, Illinois, 54-55; instr. psychol. & asst. dir. speech & hearing center, Kentucky, 56, asst. prof. & dir. audiol. clin, 56-58, assoc. prof. PSYCHOL, 59-64; PROF, MURRAY STATE, 64- Exec. dir, Ky. Ment. Health Inst, 65- Consult, Vet. Admin, U.S. Pub. Health Hosp, 58- U.S.N.R, 42-45. Psychol. Asn; Acoustical Soc. Audition, sensation and perception; communication; speech and hearing disorders. Address: Dept. of Psychology, Murray State University, Murray, Ky. 42072.

KOELSCH, DR. WILLIAM A(LVIN), Am. Hist. & Geog, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KOEMPEL, PROF. LESLIE ALICE, b. San Francisco, Calif, Jan. 22, 07. SOCIOLOGY. A.B, California, 29; Ph.D, Bryn Mawr Col, 37. From instr. to asst. prof, Skidmore Col, 36-38; assoc. prof. SOCIOL, Rockford Col, 38-43; asst. prof, Mt. Holyoke Col, 44-46; VASSAR COL, 46-51, from asst. prof. to assoc. prof, 51-58, PROF, 58- Sociol. Asn. Community research; social theory. Address: Dept. of Anthropology & Sociology, Vassar College, Poughkeepsie, N.Y. 12601.

KOEN, DR. FRANK M(ICHAEL), b. Havre de Grace, Md, July 13, 20; m. 40; c. 3. PSYCHOLOGY. A.B. Mercer, 40; Woodrow Wilson fel, Vanderbilt, 59-60, Nat. Sci. Found. fel, 60-61, Nat. Inst. Ment. Health fel, 61-63, M.A, 62, Ph.D.(psychol), 63. ASST. PROF. PSYCHOL, MICHIGAN, 63- Nat. Sci. Found. fel, 63-64. AAAS. Psycholinguistics, principally relation between language and cognition. Publ: Polarization, m, and emotionality in words, 62 & An intraverbal explication of the nature of metaphor, 65, J. Verbal Learning & Verbal Behav; Codability of complex stimuli: three modes of representation, J. Personality & Soc. Psychol, 66. Address: University of Michigan Center for Research on Language & Language Behavior, Ann Arbor, Mich. 48104.

KOEN, MARY E(LIZABETH), b. Salem, Mass, Oct. 13, 12. MATHEMATICS. A.B, Emmanuel Col.(Mass), 33; A.M, Boston Col, 34. Statistician, MASS. HOSP. SERV, INC, 46-58, RES. SPECIALIST, 58-; DIR. RES, MASS. BLUE CROSS, INC, 62- Statist. Asn; Opers. Res. Soc. Actuarial, medical-statistical and medical economics; hospital finance; physicians charges and dental fees in Massachusetts. Publ: Hospitals in profile: patterns in day frequency, 9/65 & Discharge diagnoses and their importance to Blue Cross, 2/66, Inquiry. Address: Massachusetts Hospital Service, Inc, 133 Federal St, Boston, Mass. 02106.

KOEN, DR. ROSS Y, b. Bellefonte, Ark, Nov. 29, 18; m. 43; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. A.B. & M.A, Michigan, 48, fels, Florida, 48-49, 51-52, Ph.D.(polit. sci), 58. Instr. polit. sci, Florida, 49-51, soc. sci, 52-56; polit. sci, Humboldt State Col, 56-61, assoc. prof, 61-63; EXEC. SECY, ASN. CALIF. STATE COL. PROF, 63- Summers, asst. prof, Florida, 61; Fulbright award, Inst. Chinese Civilization, Tunghai Univ, 62. Asst. ed, J. Polit, 53. U.S.A, 41-45, S/Sgt. Polit. Sci. Asn; Int. Studies Asn. Domestic influences on the formulation of American foreign policy; higher education in America and the role of faculty in the government of the University. Publ: The China lobby in American politics, Macmillan, 60. Address: 1030 Casilada Way, Sacramento, Calif. 95822.

KOENIG, DR. ALLEN E, Speech, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

KOENIG, ERNEST, b. Vienna, Austria, May 19, 17; m. 47; c. 1. ECONOMICS. B.A, Masaryk Univ, Czech, 36; Charles Univ, Prague, 36-38, 45-46; M.A, New Sch. Soc. Res, 50; Paris, 38-39; Hopkins, 50-53. Economist, for trade agr. econ, U.S. Dept. Agr, D.C, 51-59; asst. agr. attache, for. agr. serv, U.S. Embassy, Bonn, Germany, 59-64; AGR. ATTACHE, U.S. MISSION, EUROPEAN ECON. COMMUNITY, 64- Jr. instr, Hopkins, 50-51. Econ. Asn. Agricultural economics, especially food consumption and production; foreign trade; long term projections of food balances; effect of industrialization on agriculture; development of underdeveloped economies. Publ: Collectivization in Poland and Czechoslovakia; Agricultural support in Switzerland; Agricultural situation in Poland. Address: U.S. Mission to the European Economic Community, APO New York 09667.

KOENIG, DR. FRANCES G, b. New York, N.Y, Dec. 16, 11; m. 45. PSYCHOLOGY. B.S, N.Y. Univ, 32, Ph.D, 59; City Col. New York, 42-43, 45; M.A, Hunter Col, 48; Columbia, 55-56. Psychologist, St. Giles Convalescent Home, Garden City, N.Y, 44-45; Ionic Res. Labs, N.Y, 53-57; assoc. prof. SPEC. ED, SOUTH. CONN. STATE COL, 57-68, PROF, GRAD. SCH, 68- Lectr, grad. sch, Hunter Col, 50-59; vis. lectr, grad. sch, Yeshiva, 59-61; teacher, New York City Bd. Ed, 42-61. Private practice, 48- Assoc. mem, Int. Soc. Rehab. Disabled, 60-; Coun. Except. Children, 49- Psychol. Asn. Puppetry in language arts; group therapy with elementary school children; guidance for physically handicapped; adolescents with special health problems; brain injury and cerebral palsy. Publ: Implications in the use of puppetry with handicapped children, J. Except. Children; Classroom teacher guidance in relation to learning activities, In: Understanding the child; co-auth, Guidance and the physically handicapped child, Sci. Res. Assocs, 63. Address: 5030 Tibbett Ave, Riverdale, N.Y. 10471.

KOENIG, DR. FREDRICK WALTER, b. St. Louis, Mo, Aug. 28, 27. SOCIAL PSYCHOLOGY. A.B, Washington (St. Louis), 51; M.S, Wisconsin, 54, Ph.D. (sociol), 61. Instr. sociol, exten. div, Wisconsin, 55-58; Southern Methodist, 58-61, asst. prof, 61-63; lectr. psychol, Bennington Col, 63-64; asst. prof. SOCIOL, Cornell, 64-65; ASSOC. PROF, TULANE, 65- Chem.C, U.S.A, 45-47. Sociol. Asn; Psychol. Asn; Anthrop. Asn. Social perception; psycholinguistics. Address: Dept. of Sociology, Tulane University, New Orleans, La. 70118.

KOENIG, DR. KARL PETER, b. Hamilton, N.Y, Feb. 20, 38; m. 62; c. 2. EXPERIMENTAL & CLINICAL PSYCHOLOGY. B.A, Trinity Col.(Conn), 60; M.S, Washington (Seattle), 62, Ph.D.(psychol), 63. Intern clin. psychol, Vet. Admin. Hosp, Palo Alto, Calif, 63-64; vis. asst. prof. PSYCHOL, Stanford, 64-65; ASST. PROF, NEW MEXICO, 65- Clin. training consult, Vet. Admin. Hosp, 64-65; res. consult, San Mateo Ment. Health Center, 64-65; res. & training consult, Vols. in Serv. Am-Off. Econ. Opportunity, Wash, 66; psychologist, Peace Corps Training Center, N.Mex, summer, 66. AAAS; Psychol. Asn. Behavior modification, especially modification of the anxiety response in humans; imitation learning in humans. Publ: Relation of test anxiety . . . and parents, 65 & Verbal behavior in personality change, 66, J. Personality & Soc. Psychol; Experimental treatment of smoking, Behav. Res. Therapy, 66. Address: Dept. of Psychology, University of New Mexico, Albuquerque, N.Mex. 87106.

KOENIG, DR. KATHRYN, b. St. Louis, Mo, Oct. 5, 31. SOCIAL PSYCHOLOGY. A.B, Washington (St.Louis), 52, M.A, 54; Horace H. Rackham fel, Michigan, 55, Ph.D.(soc. psychol), 62. Mem. faculty PSYCHOL, Bennington Col, 59 & 62-63; res. assoc, Michigan, 59-62; lectr, Bryn Mawr Col, 63-65; ASST. PROF, YORK (ONT) 65- AAAS; Am. Psychol. Asn; Can. Psychol. Asn. Attitude change; student changes in values in college; achievement motivation and independence; development of achievement motivation; Publ: Co-auth, Persistence and change, Wiley, 67. Address: Dept. of Psychology, York University Faculty of Arts & Science, Toronto 12, Ont. Can.

KOENIG, PROF. LOUIS W, b. Poughkeepsie, N.Y, May 28, 16; m. 45; c. 1. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, Bard Col, 38, hon. L.H.D, 60; M.A, Columbia, 40, Gilder fel, 40-41, Ph.D.(pub. law, govt), 44. Legis. analyst, U.S. Bur. Budget, 41-42; admin. analyst, Off. Price Admin, 42-44; asst. prof. GOVT, Bard Col, 45-50; N.Y. UNIV, 50-51, assoc. prof, 52-57, PROF, 57- Consult, Off. Price Admin, 45-46; First Hoover Cmn, 48-49; U.S. State Dept, 50; consult. & assoc, Ford Found. Fund Adv. Ed, 55-56. Soc. Pub. Admin; Polit. Sci. Asn. American Presidency; political behavior; administration of foreign policy. Publ: Invisible presidency; co-auth, Presidency today; auth, The chief executive, Harcourt, 64. Address: 135 Chestnut St, Garden City, N.Y. 11530.

KOENIG, PROF. SAMUEL, b. Galicia, Austria, Mar. 29, 99; nat; m. 32; c. 1. SOCIOLOGY, ANTHROPOLOGY. Ph.B, Marquette, 29; A.M, Yale, 31, Ph.D. (sociol), 35. Dir. sociol. studies, Fed. Writers Proj, Conn, 36-41; instr. SOCIOL. & ANTHROP, BROOKLYN COL, 41-48, asst. prof, 49-51, assoc. prof, 52-59, PROF, 60-, dep. chmn. dept, sch. gen. studies, 48-65. Res. fel, Yale, 37-40; res. assoc, Study Recent Immigration from Europe, 44-46; Soc. Sci. Res. Coun. grant-in-aid, Israel, 50-51; Fulbright vis. prof, Bar-Ilan Univ, Israel, 57-58; Fulbright prof, Karnatak Univ, India, 64-65 & Osmania Univ, 68-69. Mem. bd. dirs, Am. Friends of Hebrew Univ. & Yivo Inst. Jewish Res, 53-; Exec. Cmn. Study Jewish Culture in U.S, 52-54. Fel. Sociol. Asn; Acad. Polit. & Soc. Sci; fel. N.Y. Acad. Sci; Soc. Criminol. Cultural sociology; minority and ethnic groups; sociological theories; criminology. Publ: Sociology: an introduction to the science of society; co-auth, Sociology: a book of readings; co-ed, Criminology; A book of readings. Address: Dept. of Sociology, Brooklyn College, Brooklyn, N.Y. 11210.

KOENIGSBERG, DR. ERNEST, Opers. Res, Mgt. Sci, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KOENIGSBERG, DR. FRANCES S, b. Boston, Mass, June 10, 29; m. 66; c. 2. GUIDANCE, COUNSELING. B.A, Rockford Col, 51; M.Ed, Harvard, 57, Ed.D.(guid, counseling), State Univ. N.Y. Buffalo, 66. Teacher, elem. sch, N.Y, 57-59, counsr, high sch, 59-63; ASSOC. PROF. PSYCHOL, STATE UNIV. N.Y. COL. OSWEGO, 65- Summer instr, State Univ. N.Y. Buffalo, 65. Personnel & Guid. Asn; Nat. Ed. Asn. Vocational development theory. Address: Dept. of Psychology, State University of New York College at Oswego, Oswego, N.Y. 13126.

KOENIGSBERG, PROF. LEWIS A(RNOLD), Develop. Psychol, see 10th ed, Soc. & Behav. Vols.

KOENINGER, PROF. RUPERT C(LIFFORD), b. Wise Co, Tex, Mar. 13, 07. SOCIOLOGY, CRIMINOLOGY. A.B, Tex. Tech. Col, 29; A.M, Chicago, 36; Ph.D, Ohio State, 39. Prof. SOCIOL, Cent. Mich. Col. Ed, 39-47; prof. & head dept, Sam Houston State Teachers Col, 47-62; PROF, TEXAS SOUTHERN, 62- Gen. Ed. Bd. fel, 42; Sloan Found. fel, 43; dir. bur. classification & records, State Prison Syst, Tex, 48-54. Sociol. Asn. Sociological foundation of education; followup of the secondary school students; twenty cases of criminal psychopaths. Address: Dept. of Sociology, Texas Southern University, P.O. Box 88, Houston, Tex. 77004.

KOENKER, DEAN ROBERT H(ENRY), b. Mankato, Minn, Mar. 4, 13; m. 43; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Mankato State Col, 35; M.A, Minnesota, 38, Ph.D.(ed. psychol), 41. Prof. ed. & dir. grad. studies, BALL STATE, 46-65, prof. ed. & psychol. & dean grad. progs, 65-68, PROF. PSYCHOL. & DEAN GRAD. SCH, 68- Consult. & exam, North Cent. Asn. Cols. & Sec. Schs, 60-; consult, Coun. Grad. Schs, U.S, 64-, U.S. Dept. Ed, 65- Chmn, Midwest Conf. Grad. Study & Res, 65. U.S.C.G, 41-45, Lt. Psychol. Asn; Nat. Ed. Asn. Arithmetic; mathematics. Publ: Row-Peterson arithmetic workbooks, Grades 3-8; Simplified statistics for students in education and psychology; Psychology applied to the teaching of arithmetic, Arithmetic Teacher. Address: Graduate Office, Ball State University, Muncie, Ind. 47306.

KOENKER, PROF. WILLIAM ERNST, b. Regent, N.Dak, Jan. 5, 11. ECONOMICS. A.B, N.Dak. State Teachers Col, 34; A.M, North Dakota, 38; Ph.D, Ohio State, 49. From assoc. prof. to PROF. ECON. & HEAD DEPT, NORTH

DAKOTA, 49-, V.PRES. ACAD. AFFAIRS, 63- Econ. Asn; Finance Asn. State and local finance and taxation; economic development. Address: University of North Dakota, Grand Forks, N.Dak. 58201.

KOESTER, DEAN GEORGE A(RTHUR), b. Allen, Nebr, Oct. 15, 12; m. 43; c. 1. EDUCATIONAL PSYCHOLOGY, COUNSELING. B.A, Midland Col, 37; M.S, Colorado, 42; Ph.D, Minnesota, 51. Teacher, pub. high sch, Nebr, 37-41; group leader, U.S. Govt.-California proj, Los Alamos Lab, N.Mex, 46; teacher, pub. high sch, Calif, 46-47; asst. ed. psychol. & counsr, Minnesota, 47-50; from asst. prof. to PROF. ED, SAN DIEGO STATE COL, 50-, CHMN. DIV. ED, 58-, EXEC. DEAN, 64-, coordinator sec. ed, 54-58. U.S.A, 42-46, Capt. Psychol. Asn. Diagnostic process in counseling; factors which lead to success in teaching. Publ: Study of the diagnostic process, Ed. & Psychol. Measurement; Using instructor made tests for instructional purposes, Ed. Res. Bull. Address: Dept. of Education, San Diego State College, San Diego, Calif. 92115.

KOESTER, PROF. THEODORE, Psychol, see 10th ed, Soc. & Behav. Vols.

KOFF, DR. STEPHEN PRAEDEL, b. New York, N.Y, Jan. 21, 29; m. 61. POLITICAL SCIENCE. B.A, Indiana, 50; M.A, Columbia, 53, Ph.D, 64. Instr. POLIT. SCI, MAXWELL SCH, SYRACUSE, 57-64, ASST. PROF, 64-, resident chmn. Syracuse semester in Italy, 61-63. Econ. stabilization consult, Off. Gov, Mass, 66- Polit. Sci. Asn; Hansard Soc. Canadian, Italian and United States comparative politics; political behavior. Publ: Co-auth, Community leadership studies, 67 & auth, The political face of Italy, 68, Mario Casalini, Ltd. Address: Dept. of Political Science, Maxwell School, Syracuse University, Syracuse, N.Y. 13210.

KOFFSKY, NATHAN M(ORRIS), b. Albany, N.Y, Feb. 14, 11; m. 46; c. 1. ECONOMICS. B.A, Cornell, 31; M.A, American Univ, 39. Economist & statistician, U.S. Dept. Agr, 34-56, chief, farm income br. & v.chmn, outlook & situation bd, 56-59, dep. adminstr. econ. & statist, agr. mkt. serv, 59-61, adminstr, econ. res. serv, 61-65, dir. agr. econ, 65-66, lectr, grad. sch, 54-66; ADV. AGR. ECON, FORD FOUND, INDIA, 66- Distinguished Serv. award, U.S. Dept. Agr, 64. U.S.A.A.F, 42-46, Capt. Econ. Asn; fel. Statist. Asn; Agr. Econ. Asn.(v.pres, 59-60); Int. Asn. Agr. Econ. Domestic and foreign agricultural economic research administration; economic forecasting and outlook for agriculture; measurement and analysis of farm income. Publ: Long-term price outlook and its impact on American agriculture, J. Farm Econ; Farm and urban purchasing power, In: Studies in income and wealth; The food potential of developing nations, J. Farm Econ, 12/67. Address: 5515 Greystone St, Chevy Chase, Md. 20015.

KOFMEHL, PROF. KENNETH, b. Spokane, Wash, Jan. 31, 20. POLITICAL SCIENCE. B.A, Idaho, 41; M.A, Columbia, 49; Ph.D.(polit. sci), 56. Vis. instr. polit. sci, Kansas, 55-56, vis. asst. prof, 56-57; asst. prof. GOVT, PURDUE, 57-62, assoc. prof, 62-67, PROF, 67- Summers, Purdue Res. Found. grants, 60, 61, 63. Consult, cmt. sci. & pub. policy, Nat. Acad. Sci, 64; subcmt. constitutional amendments, U.S. Senate Cmt. Judiciary, 66- U.S.A, 42-46, Capt. AAAS; Polit. Sci. Asn; Soc. Pub. Admin. United States Congress and legislation; political parties and pressure groups; American national government; science and public policy. Publ: Professional staffs of congress; Institutionalization of a voting bloc, West. Polit. Quart, 6/64; COSPUP, congress, and scientific advice, J. Polit, 2/66. Address: Dept. of Political Science, Purdue University, West Lafayette, Ind. 47907.

KOFRON, JOHN H, b. Cedar Rapids, Iowa, Sept. 3, 18; m. 41; c. 2. ECONOMICS, STATISTICS. B.A, Coe Col, 41; Iowa State. Res. assoc, Iowa State, 46-48; res. exec, Nat. Analysts, Inc, 49-57; V.PRES. & DIR. RES. CHILTON CO, PHILA, 57- U.S.A, 41-46, Maj. Statist. Asn; Mkt. Asn. Market and media research. Address: 2066 Fox Creek Rd, Berwyn, Pa. 19312.

KOFSKY, DR. ELLIN, Develop. Psychol, see SCHOLNICK, DR. ELLIN KOFSKY.

KOGAN, DR. CHARLES LEE, b. New York, N.Y, Mar. 27, 25; m. 49; c. 1. PSYCHOLOGY. A.B, Syracuse, 49; fel, Washington (Seattle), 50-51, M.S, 53, Ph.D.(clin. psychol), 56. Vet. admin. trainee, Washington (Seattle), 51-56; staff psychologist, Vet. Admin. Hosp, Topeka, Kans, 56-57, ward psychologist, Montrose, N.Y, 57-59; instr. psychol, Queens Col.(N.Y), 59; PSYCHOLOGIST, INSTR. & SUPV, TEACHERS COL, COLUMBIA, 59- Private practice, 58-; psychotherapist, Rockland County Center Ment. Health, 59-61. U.S.A, 43-46, Sgt. Psychol. Asn. Individual and group psychotherapy; psychodiagnosis; literature and personality. Publ: Withdrawal of a positive reinforcer and strength of behavior in children, Am. Psychologist. Address: 21 Lexington Dr, Croton-on-Hudson, N.Y. 10520.

KOGAN, PROF. LEONARD S(AUL), b. Easton, Pa, Apr. 22, 19; m. 46; c. 3. PSYCHOMETRY. A.B, Lafayette Col, 40; M.A, Rochester, 42, Ph.D.(psychol), 48. Statistician, Manhattan Proj, Tenn, 45-46, statist. consult. & chief med. sect, 46-47; from asst. dir. to dir. inst. welfare res, Community Serv. Soc, 47-63; PROF. PSYCHOL. & DIR. CENTER SOC. RES, CITY UNIV. NEW YORK, 63- Adj. prof, Brooklyn Col, 48-49 & 66-; N.Y. Univ, 49-59; Yeshiva, 59-63. Sr. statistician, cmt. pilot selection, Nat. Res. Coun, 41-44. Civilian with Off. Sci. Res. & Develop. AAAS; Psychol. Asn; Statist. Asn; Psychomet. Soc. Welfare research; family casework; public health nursing. Publ: Statistics; co-auth, Follow-up study of the results of social work; auth, Experimental center for casework research, Soc. Casework. Address: Dept. of Psychology, Center for Social Research, City University of New York, 33 W. 42nd St, New York, N.Y. 10036.

KOGAN, DR. NATHAN, b. Bethleham, Pa, May 2, 26; m. 54; c. 1. PSYCHOLOGY. A.B, Lehigh, 48; A.M, Harvard, 50, Livingston fel, 50-51, univ. fel, 50-53, Ph.D.(psychol), 54. Asst, lab. soc. rels, Harvard, 53-54, res. assoc, off. adv. standing, 54-56, lab. soc. rels, 56-59; ED. TESTING SERV, 59-67, CHMN, PERSONALITY RES. GROUP, 67- Vis. instr, Boston, 53-54; vis. assoc. prof, grad. faculty, New Sch. Soc. Res, 61-63; vis. prof, Princeton, 65-67; vis. scholar, Univ. Paris, 66-67. Consult. editor, J. Ed. Psychol, 66- Sig. C, U.S.A, 44-46. AAAS; Psychol. Asn; Soc. Res. Child Develop, 65- Social psychology; personality; cognitive processes. Publ: Co-auth, Risk taking, 64, Modes of thinking in young children, 65 & New directions in psychology III, 67, Holt. Address: 46 Linden Lane, Princeton, N.J. 08540.

KOGAN, PROF. NORMAN, b. Chicago, Ill, June 15, 19; m. 46; c. 2. POLITICAL SCIENCE. B.A, Chicago, 40, fel, 47-49, Ph.D.(int. rels), 49. Instr. govt. & int. rels, CONNECTICUT, 49-52, asst. prof, 52-58, assoc. prof. POLIT. SCI, 58-63, PROF, 63-, DIR. CENTER ITALIAN STUDIES, 66- Soc. Sci. Res. Coun. fel, inst. int. rels. res, Denver, 56; grant, Italy, 57-58. U.S.A, 43-46. Polit. Sci. Asn; Hist. Asn. International politics; comparative government; contemporary Italian history. Publ: Italy and the Allies, Harvard, 56; The government of Italy, Crowell, 62; Political history of postwar Italy, Praeger, 66. Address: 7 Eastwood Rd, Storrs, Conn. 06268.

KOGIKU, DR. K(IICHIRO) C(HRIS), b. Okayama, Japan, July 30, 27; m. 58. ECONOMICS. B.S, Denver, 54; M.A, Wisconsin, 57, fel, 58-59, Ph.D.(econ), 59. Asst. econ. & statist, Wisconsin, 57-59; asst. prof, Western Michigan, 59-62; ECON, CALIFORNIA, RIVERSIDE, 62-66, ASSOC. PROF, 66- Brookings res. prof. econ, 65-66. Econ. Asn; Economet. Soc; Statist. Asn; Royal Econ. Soc. Economic theory and statistics; mathematical economics and econometrics. Publ: Introduction to macroeconomic models, McGraw, 68; Economics of 1960 revisited, Rev. Econ. & Statist; Model of the raw materials market, Int. Econ. Rev, 67. Address: Dept. of Economics, University of California, Riverside, Calif. 92502.

KOH, DR. BYUNG CHUL, b. Seoul, Korea, Apr. 6, 36; m. 67; c. 1. POLITICAL SCIENCE. LL.B, Seoul, 59; M.A, Miami (Ohio), 60; M.P.A, Cornell, 62, Ph.D.(pub. admin), 63. Reporter, Korean Repub, 59; asst. prof. govt, La. State, 63-65; POLIT. SCI, ILLINOIS, CHICAGO, 65-68, ASSOC. PROF, 68- Repub. of Korea Air Force, 57-59, 2nd Lt. Soc. Pub. Admin; Soc. Int. Law; Asn. Asian Studies. Comparative and international administration; international law and organization; East Asian studies, especially Korea. Publ: United Nations administrative tribunal, La. State Univ, 66; Foreign policy of North Korea, Praeger, 68; North Korea and its quest for autonomy, Pac. Affairs, 38:294-306. Address: Dept. of Political Science, University of Illinois at Chicago Circle, Chicago, Ill. 60680.

KOH, PROF. KWANG LIM, b. Korea, Oct. 20, 20; m. 51; c. 6. POLITICAL SCIENCE, LAW. LL.B, Keijo Imp. Univ, Korea, 45; M.A, Rutgers, 50, Ph.D.(polit. sci), 53; LL.M, Harvard, 52, S.J.D, 55, LL.B, Boston Col, 61. Assoc. prof. law, Seoul Norm. Col, Seoul Nat. Univ, 46-49; teaching asst. polit. sci, Rutgers, 50-51; lectr, Boston, 53-60, prof. govt. & law, 58-60; assoc. prof. comp. govt, Hofstra, 60-62, 63-66; PROF. COMP. LAW & DIR. CENTER INT. AREA STUDIES, CENT. CONN. STATE COL, 66- Pres, Korean Inst, Inc, Mass, 56-60; vis. lectr, Yale, 63-66. Soc. Int. Law; Polit. Sci. Asn; Asn. Asian Studies; assoc. Sociol. Asn; Asn. Comp. Study Law; Korea Soc.(v.pres, 52-55, pres, 55-57). Comparative government and law; international law and organization. Publ: The continental shelf and the International Law Commission, Boston Univ. Law Rev, 55; Laws and regulations concerning foreign investment in the Republic of Korea, China and Thailand, Columbia University Law School Symposium, In: Legal aspects of foreign investment, Little, 58; Judicial procedure in T'ang China, 65. Address: Dept. of Political Science, Central Connecticut State College, 1615 Stanley St, New Britain, Conn. 06050.

KOH, DR. SOON DUK, b. Jang-Jin, Korea, July 25, 17; m. 63. PSYCHOLOGY. B.A, St. Paul Univ, 43; M.A, Occidental Col, 50; Ph.D.(psychol), Harvard, 59. Intern clin. psychol, Bellevue Psychiat. Hosp, 59-60; psychologist, Jamestown State Hosp, N.Dak, 60-63; res. dir, Hastings State Hosp, Minn, 63-67; RES. PSYCHOLOGIST, INST. PSYCHOSOM. & PSYCHIAT. RES. & TRAINING, MICHAEL REESE HOSP. & MED. CENTER, 67- Psychol. Asn. Experimental esthetics and psychopathology; perceptual and cognitive development. Publ: Absolute behavioral taste thresholds in the rats, J. Comp. Physiol. Psychol, 61; Scaling musical preferences, J. Exp. Psychol, 65; Time-error in comparisons of preferences for musical excerpts, Am. J. Psychol, 67. Address: 401 E. 32nd St, Apt. 714, Chicago, Ill. 60616.

KOH, DR. TONG-HE CHOO, b. Seoul, Korea, Apr. 9, 29; m. 63. PSYCHOLOGY. B.A, Ewha Womans Univ, Korea, 50; Ph.D.(psychol), Boston, 60. Instr. psychol, Ewha Womans Univ, 53-54; PSYCHOLOGIST, Faribault State Hosp, Minn, 60-67; HENNER HEARING & SPEECH CENTER, MICHAEL REESE HOSP, 67- Psychol. Asn. Attitude and opinion change; experimental esthetics; test and measurement; learning experiment with mentally retarded, sensory deprived, and perceptually handicapped children and adults. Publ: Communicator credibility and communication discrepancy as determinants of opinion change, J. Soc. Psychol, 64; co-auth, Scaling of musical preferences by the mentally retarded, Science, 66; auth, Relationship between PPVT and Stanford-Binet performance in institutionalized retardates, Am. J. Ment. Deficiency, 67. Address: Apt. 714, 401 E. 32nd St, Chicago, Ill. 60616.

KOHBERGER, PROF. PAUL B(URKE), b. Pittsburgh, Pa, June 30, 17; m. 46; c. 3. ECONOMICS. A.B, Pittsburgh, 39, M.A, 49, Ph.D.(econ), 53. Acct, U.S. Steel Corp, 39-42; instr. econ, PITTSBURGH, 46-51, asst. prof, 52-53, asst. to dean, 46-53, asst. dean bus. admin, 53-59, PROF. BUS. ADMIN, 59-, lectr, grad. sch. pub. health, 56. Found. Econ. Ed. fel, 55; lectr, Westinghouse Elec. Corp, 56- U.S.A, 42-46. Econ. Asn. Administration, especially of industrial research units; business and society; business ethics. Publ: Advanced management for Air Force officers; Costs of employee health services operated for more than one firm; co-auth, Costs to the firm of employee illness and injury. Address: 1125 Wightman St, Pittsburgh, Pa. 15217.

KOHFELD, DR. DAVID LLOYD, b. Fresno, Calif, Oct. 26, 40; m. 62; c. 1. EXPERIMENTAL PSYCHOLOGY. B.A, Wheaton Col.(Ill), 62; M.A, Illinois, Urbana, 64, Ph.D.(psychol), 66. RES. PSYCHOLOGIST, U.S. ARMY MED. RES. LAB, 66- Part time faculty psychol, Louisville, 67- Med.Serv.C, U.S.A, 64-, Capt. AAAS. Learning and psychophysics; prediction of perceptual-motor performance. Publ: Co-auth, Role of adaptation-level in stimulus intensity dynamism, 65 & auth, The prediction of perceptual-motor learning from independent verbal and motor measures, 66, Psychonomic

Sci; auth, Stimulus-intensity and adaptation-level as determinants of simple reaction time, J. Exp. Psychol, 68. Address: Experimental Psychology Division, U.S. Army Medical Research Lab, Ft. Knox, Ky. 40121.

KOHL, PROF. JOHN C(LAYTON), Civil Eng, see 11th ed, Phys. & Biol. Vols.

KOHL, PROF. RICHARD N(IEMES), Psychiat, see 11th ed, Phys. & Biol. Vols.

KOHLBERG, PROF. LAWRENCE, b. Bronxville, N.Y, Oct. 25, 27; m. 55; c. 1. CHILD PSYCHOLOGY. A.B, Chicago, 49, Grant Found. fel. & Ph.D, 58. Trainee psychol, U.S. Vet. Admin, 52-53; asst, Chicago, 54-56; Russell Sage resident, Children's Hosp, Boston, Mass, 58-59; asst. prof. psychol, Yale, 59-61; Chicago, 61-68; PROF. ED, HARVARD, 68- Fel, Inst. Adv. Study Behav. Sci, 61-62. U.S. Merchant Marines, 45-48. Psychol. Asn; Soc. Res. Child Develop. Address: Graduate School of Education, Harvard University, Cambridge, Mass. 02138.

KÖHLER, DR. HEINZ, b. Berlin, Germany, Aug. 19, 34; nat; m. 55; c. 2. ECONOMICS. B.A, Free Univ. Berlin, 56; M.A, Michigan, 58, Rackham fel, 58-59, univ. fel, 59-60, Ford Found. fel, 60-61, Ph.D.(econ), 61. Asst. ECON, Michigan, 57-58; asst. prof, AMHERST COL, 61-64, ASSOC. PROF, 64-, chmn. dept, 62-64. Am. Coun. Learned Socs. Slavic res. fel, 62-63; vis. prof, Smith Col, 63; Mt. Holyoke Col, 65; summers, lectr & res. assoc, Michigan, 61; vis. prof, Massachusetts, 64, 65, 66. Econ. Asn. International economics; Soviet bloc & Chinese economics; elementary teaching of economics. Publ: Economic integration in the Soviet bloc, Praeger, 65; Welfare and planning, Wiley, 66; Scarcity challenged: an introduction to economics, Holt, 68. Address: Dept. of Economics, Amherst College, Amherst, Mass. 01002.

KOHLER, DR. LEROY LOUIS, b. Lyndhurst, N.J, June 5, 14; m. 45; c. 2. SOCIOLOGY, HISTORY. A.B, Montclair State Col, 37, M.A, 39; cert, Nat. Training Sch. Prfnl. Scout Exec, 40; Ph.D.(sociol), N.Y. Univ, 49. Instr, high sch, N.J, 37-38; asst. soc. studies, N.J. State Teachers Col, Montclair, 38-39; instr, jr. high sch, N.J, 39-40; field scout exec, Boy Scouts Am, Chicago, Ill, 40-41; asst. prof. econ, St. Lawrence, 46-47; sociol, Alfred, 47-48; assoc. prof. sociol. & dir. soc. work training, Bradley, 48-53; prin, elem. sch, Ill, 53-54; ASSOC. PROF. SOCIOL. & CHMN. DEPT, Fairleigh Dickinson, 54-65; RIDER COL, 65- Mem. YMCA, Rutherford, N.J, 59-65; Bd. Ed, Rutherford, 59-66; dist. chmn, Boy Scouts Am, Bergen County, 60-65. U.S.A, 41-45, T/Sgt. Sociol. Asn. Social work; current world history; geography. Publ: From N.Y.A. to W.P.A?, Montclair Col, 39; Effectiveness of scouting in city delinquency areas, N.Y. Univ, 49. Address: Dept. of Sociology, Rider College, Trenton, N.J. 08602.

KOHLER, MAYNARD R(USSELL), JR, b. Williamsport, Pa, Jan. 24, 26; m. 49. ECONOMICS. B.A, Pa. State, 49, M.A, 52. Asst, housing & redevelop. div, Pa. State Planning Bd, 50-53; economist, Haller, Raymond & Brown, Inc, 53-57, spec. asst. to secy-treas, 57-60; analyst, HRB-Singer, Inc, 58-59, budget & forecast analyst, 60-67; FACILITY COORDINATOR CONSTRUCT. ECON, PA. STATE, 67- U.S.A, 45-46. Econ. Asn; Asn. Bus. Econ. Operations research; statistics; budgeting and forecasting; construction economics. Address: 601 Kennard Rd, State College, Pa. 16801.

KOHLER, DR. RAMON, b. Midway, Utah, July 24, 31; m. 56; c. 4. SPEECH PATHOLOGY. B.S, Brigham Young, 58, M.S, 61; Ph.D.(speech path), Utah, 67. Speech pathologist, Mont. Soc. for Crippled Children, 59; teacher, elem. sch, Idaho, 60-62; speech pathologist, Daggett, Hinkley, Newberry, Calif, 62-65; Salt Lake City Bd. of Ed, 66-68, chmn. dept. speech & hearing, 68; DIR. SPEECH & HEARING PROG, UNIV. WYOMING, 68- U.S.A, 63-64, Sgt. Auditory perceptual abilities and disabilities in children; use of operant conditioning techniques with stutterers; specific programs for improvement of listening. Address: Speech & Hearing Clinic, University of Wyoming, Laramie, Wyo. 82070.

KOHLS, PROF. R(ICHARD) L(OUIS), b. Kentland, Ind, Apr. 19, 21; m. 44; c. 2. AGRICULTURAL ECONOMICS. B.S, Purdue, 42, Ph.D.(econ, agr. econ), 50; M.A, Missouri, 48. Instr. AGR. PRICE & MKT, PURDUE, 48-50, asst. prof, 50-53, assoc. prof, 53-55, PROF, 55-, DEAN AGR, 68-, asst. head dept. agr. econ, 65-66, asst. acad. v.pres, 66-68. Vis. prof, Exeter, 64-65. Mem. adv. cmt. econ. res, U.S. Dept. Agr, 59-63. Mil. Intel, 43-46, Capt. Agr. Econ. Asn. (v.pres, Farm Econ. Asn, 66-67, outstanding teacher award, 67); Int. Conf. Agr. Econ. Agricultural prices; agricultural marketing; consumer economics. Publ: Marketing agricultural products, Macmillan, 55, 62, 67; co-auth, Considerations of internal firm organization and behavior factors, In: Market structure research, Iowa State Univ, 64; auth, Impacts of vertical integration, Proc. Int. Asn. Agr. Economists, 64. Address: 124 Blackhawk Lane, West Lafayette, Ind. 47906.

KOHN, PROF. CLYDE FREDERICK, b. Mohawk, Mich, Apr. 10, 11; m. 42; c. 2. GEOGRAPHY. A.B, North. Mich, 35; M.A, Michigan, 36, fel. & Ph.D. (geog), 40. Assoc. prof. GEOG, Miss. State Col. for Women, 40-41; instr, Harvard, 42-45; asst. prof, Northwestern, 45-47, assoc. prof, 47-58; PROF, IOWA, 58-, CHMN. DEPT, 65- Consult, A.J. Nystrom & Co, 58-; Textfilm, McGraw-Hill Book Co, 63-; U.S. Nat. Cmn. for UNESCO, 60-66. AAAS; Asn. Am. Geog.(pres, 67-68); Pop. Asn; Nat. Coun. Geog. Ed.(secy, 46-50, pres, 51); Regional Sci. Asn. Urban and social geography; geographic education. Publ: Co-auth, In the Americas; Readings in urban geography & Our world today: its patterns and cultures. Address: Dept. of Geography, University of Iowa, Iowa City, Iowa 52240.

KOHN, DR. ERNEST, b. Vienna, Austria, July 2, 24; U.S. citizen; m. 49; c. 2. ECONOMICS. B.B.A, City Col. New York, 48; M.A, Columbia, 52, Ph.D. (econ), 64. Asst, STATE BANKING DEPT, N.Y, 54-56, res. analyst, 56-58, sr. res. analyst, 58-60, RES. DIR. ECON. & FINANCIAL RES, 60- U.S.A, 43-46, Sgt. Econ. Asn. Finance; banking; statistics. Publ: Branch banking, bank mergers and the public interest & Future of small banks, N.Y. State Banking Dept; co-auth, Employment and output in banking, 1919-1955, Rev. Econ. & Statist. Address: 253-04 61st Ave, Little Neck, Queens, N.Y. 11362.

KOHN, DR. MARTIN, b. Germany, Mar. 21, 22; nat. PSYCHOLOGY. B.A, Hopkins, 47; Ph.D, Yale, 51. Soc. Sci. Res. Coun. fel, Yale, 51-52, U.S. Pub. Health Serv. fel, 52-54, asst. prof, 54-55; res. psychologist, Jewish Bd. Guardians, New York, 55-56, dir. res, Hawthorne Cedar Knolls Sch, 56-58; CHIEF PSYCHOLOGIST, SCHS. & MENT. HEALTH PROG, RES. DIV, BANK STREET COL. ED, 58-; RES. PSYCHOLOGIST, WILLIAM ALANSON WHITE INST, 64-, res. cand, 59-64. Nat. Inst. Ment. Health grants, 64-Consult, N.Y. State Div. Youth, 66- Psychol. Asn; Soc. Res. Child Develop. Child psychology; clinical psychology; personality development. Publ: Satiation of hunger from food injected directly into the stomach versus food injected by mouth & co-auth, Sodium sucaryl, a substance which tastes sweet to human subjects but is avoided by rats, J. Comp. & Physiol. Psychol; The child as a determinant of his peers' approach to him, J. Genetic Psychol, 66. Address: William Alanson White Institute, Research Dept, 20 W. 74th St, New York, N.Y. 10023.

KOHN, DR. MELVIN L(ESTER), b. New York, N.Y, Oct. 19, 28; m. 52. SOCIOLOGY. A.B, Cornell, 48, Soc. Sci. Res. Coun. fel, 51-52, Ph.D.(sociol), 52. Res. sociologist, NAT. INST. MENT. HEALTH, 52-56, CHIEF, sect. community & pop. studies, 56-61, LAB. SOCIO-ENVIRONMENTAL STUDIES, 61-Ernest W. Burgess award, Nat. Coun. Family Rels, 61. AAAS; Sociol. Asn. Social psychology; social stratification; intergroup relations; sociology of mental illness. Publ: Co-auth, Social isolation and schizophrenia & Situational patterning in intergroup relations, Am. Soc. Rev; Social class and parent-child relationships: an interpretation, Am. J. Sociol, 1/63. Address: National Institute of Mental Health, Bethesda, Md. 20014.

KOHN, DR. NATHAN, JR, b. St. Louis, Mo, Oct. 4, 15; m. 43; c. 2. PSYCHOLOGY. A.B. & LL.B, Washington (St. Louis), 38, Ed.D, 48; M.A, Minnesota, 42. Vet. counsr, Washington (St. Louis), 46-51, asst. prof. ed, registr. & counsr, 48-54, consult. to chancellor, 54-56; dir, Nathan Kohn, Jr. & Assocs, 54-56; co-dir, Nicholson-Kohn & Assocs, Inc, 56-60, DIR, N.K. & ASSOCS, INC, 60- Dipl, Am. Bd. Exam. Prfnl. Psychol. AAAS; fel. Psychol. Asn; Asn. Adv. Psychother. Motivations; interests of people; psychological measurement. Address: 9827 Clayton Rd, LaDue, Mo. 63124.

KOHN, DR. ROBERT, b. Vienna, Austria, Jan. 19, 08; Can. citizen; m. 51; c. 2. POLITICAL SCIENCE, ECONOMICS. Dr.Jur, Vienna, 33; London, 45; M.A, Toronto, 46. Statistician nat. accounts, Dom. Bur. Statist, Can, 47-48, chief pub. health sect, 48-59; consult, Pan-Am. Health Orgn, WHO, 59-61; asst. dir. res, Royal Cmn. Health Serv, Can, 61-65; health statist. planning officer, Dom. Bur. Statist, Can, 65-66; PROF. MED. CARE, SCH. HYG. & PUB. HEALTH, HOPKINS, 66- Consult, Spec. Cmt. Senate on Aging, Can, 64-66; Group Health Asn. Am, 66-; Int. Collab. Study Med. Care Utilization, 67- Can. Army, 45. Can. Pub. Health Asn; Statist. Asn; fel. Am. Pub. Health Asn. Health Services organization. Publ: Emerging patterns in health care, 66 & The health of the Canadian people, 67, Queen's Printer; Health objectives for the evaluation of health services and operational research, Can. J. Pub. Health, 57: 13-17. Address: Johns Hopkins University School of Hygiene & Public Health, 615 N. Wolfe St, Baltimore, Md. 21205.

KOHN, PROF. WALTER S(AMUEL) G(ERST), b. Lichtenfels, Germany, May 16, 23; nat; m. 55; c. 3. POLITICAL SCIENCE. B.Sc, London, 47; M.A, New Sch. Soc. Res, 49, Ph.D.(polit. sci), 54. Lectr. govt. & econ, Lawrence Col, 52-54; acting prof. hist, State Univ. N.Y. Col. Buffalo, 54-56; asst. prof. POLIT. SCI, ILLINOIS STATE, 56-60, assoc. prof, 60-67, PROF, 67- Polit. Sci. Asn; Soc. Int. Law. Comparative government of Western Europe and United States; international relations. Publ: Collective self defense under a revised United Nations Charter, Soc. Res; Illinois convention ratifies 21st amendment, J. Ill. State Hist. Soc; Sovereignty of Liechtenstein, Am. J. Int. Law. Address: Dept. of Political Science, Illinois State University, Normal, Ill. 61761.

KOHR, PROF. LEOPOLD, Econ, see 10th ed, Soc. & Behav. Vols.

KOHS, DR. S(AMUEL) C(ALMIN), b. New York, N.Y, June 2, 90; m. 12; c. 1. PSYCHOLOGY. B.S, City Col. New York, 12; fel, Training Sch, Vineland, N.J, 12-14; A.M, Clark, 14; Chicago, 16; fel, Stanford, 16-18, Ph.D.(ed. psychol), 19. Dir. clin, children's inst, Clark, 13-14; psychopath. lab, Chicago House of Correction, 14-16; asst. prof. psychol, Reed Col, 18-19, 21-23; exec. dir, Oakland Jewish Fedn, 23-25; dir. soc. serv, Eureka Benevolent Soc, 25-28; exec. dir, Brooklyn Fedn. Jewish Charities, 28-31; prof. soc. tech, Grad. Sch. Jewish Soc. Work, 31-42; field secy, west. states sect, Nat. Jewish Welfare Bd, 41-42, dir. bur. war records, 42-46, field secy, west. states sect, 47-56; CONSULT, 57- Lectr, Training Sch, Vineland, N.J, 13-14; Stanford, 16-18; N.Y. Univ, 17; psychologist, Court Domestic Rels, Portland, Ore, 19-23; lectr, St. Mary's Acad, 22; Oregon, 20-23; Wisconsin, 22-23; California, 37; dir. resettlement div, Nat. Refugee Serv, New York, 38-39; Los Angeles Emigre Serv, 39-40. Ed, Jewish Soc. Serv. Quart, 28-35. AAAS; Psychol. Asn. Population; community planning; clinical and educational psychology. Publ: Intelligence measurement, Macmillan, 19; The roots of social work, Asn. Press, 66. Address: 1901 Garden Dr, Apt. 103, Burlingame, Calif. 94010.

KOHUT, DR. HEINZ, Psychiat, Neurol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KOKAT, DR. ROBERT GEORGE, b. Philadelphia, Pa, Dec. 22, 33; m. 61; c. 1. ECONOMICS. B.S, Pa. State, 56, M.S, 57; Ford.Found. fel. & D.B.A.(econ), Indiana, 62. Economist, Cmt. Econ. Develop, 60; analyst econ, Opers. Res. Off, 60-61; asst. prof. bus, Pa. State, 61-63; econ, Maryland, 63-66; ECONOMIST, ADV. SYSTS. DEVELOP. DIV, INT. BUS. MACH. CORP, 66- Nat. Sci. Found. fel, California, Berkeley, 64. Consult, U.S. Bur. Mines, 62-63. Econ. Asn; Regional Sci. Asn. Interindustry economics; applied economic analysis; computer simulation; management science; regional economic analysis. Publ: Some conceptual problems in the implementation of the Maryland interindustry study, Regional Sci. Asn, 66; co-auth, The interindustry structure of the U.S. mining industries—1958, U.S. Govt, 67; auth, Some economic implications of disarmament on the structure of American

industry, Kyklos, 66. Address: International Business Machines Corp, Advanced Systems Development Division, 1145 19th St, N.W, Washington, D.C. 20036.

KOK-CHIANG, DR. TAN, b. Singapore, May 31, 37; m. 62; c. 1. GEOGRAPHY. B.A, Nanyang, 60; M.A, Western Ontario, 62; Ph.D.(geog), London Sch. Econ, 66. ASST. PROF. GEOG, GUELPH, 66- Asn. Am. Geog; Can. Asn. Geog; Royal Can. Geog. Soc. Plural societies, their origins and evolution, conflicts and unity; problems of national development in underdeveloped countries; viability of the Malaysian region; inter-relationships between geography and politics. Address: Dept. of Geography, Wellington College, University of Guelph, Guelph, Ont, Can.

KOKORIS, DR. JAMES A, Econ, see 10th ed, Soc. & Behav. Vols.

KOLACK, DR. SHIRLEY MARION, b. Atlanta, Ga, Mar. 10, 26; m. 45; c. 2. SOCIOLOGY. B.S, Boston, 55, M.A, 57, Ph.D.(sociol), 65. Acting chmn. dept. sociol, MASS. STATE COL, Bridgewater, 62-67, CHMN. DEPT. BEHAV. SCI, LOWELL, 67- Mem. coun. urban ed, Mass. State Cols, 65- Sociol. Asn. Sociology of professions and of urban problems. Publ: Co-auth, Life and death of a voluntary organization, Adult Leadership, 3/67 & The enormous odds against Israel, Trans-Action, 3/68; auth, Some aspects of status inconsistency among social work professionals, J. Soc. Probs, winter 68. Address: Dept. of Behavioral Science, Massachusetts State College at Lowell, Lowell, Mass. 01854.

KOLAJA, PROF. JIRI T(HOMAS), b. Brno, Czech, Oct. 21, 19; nat. SOCIOLOGY. Ph.D, Masaryk Univ, Czech, 47; M.A, Chicago, 51; Ph.D, Cornell, 59. From asst. prof. to prof. SOCIOL, Talladega Col, 54-58; from asst. prof. to assoc. prof, Kentucky, 58-66; PROF, McMaster, 66-68; STATE UNIV. N.Y. COL. BROCKPORT, 68- Fel. Am. Sociol. Asn; Int. Inst. Sociol; Can. Sociol. & Anthrop. Asn. Sociological theory; area studies of the Slavic world; industrial sociology. Publ: Problems of the motion picture; A Polish factory; Workers' councils: the Yugoslav experience. Address: Dept. of Sociology, State University of New York College at Brockport, Brockport, N.Y. 14420.

KOLARIK, DR. J(OSEPH) MILAN, b. Tarentum, Pa, Nov. 28, 13; m. 38; c. 2. PSYCHOLOGY. M.Ed, Pittsburgh, 47, Ph.D.(psychol), 54. Lectr. psychol, Pittsburgh, 50-55; clin. psychologist, Columbus Psychiat. Clin, Ohio, 55-56; asst. prof. PSYCHOL. & assoc. psychol. clin, FLORIDA, 56-63, ASSOC. PROF. & SR. COUNSELING PSYCHOLOGIST, UNIV. COUNSELING CENTER, 63- Psychol. Asn. Clinical and pastoral psychology; academic underachievers. Publ: Study of the critical requirements of the Lutheran ministry. Address: Dept. of Psychology, University of Florida, Gainesville, Fla. 32601.

KOLARS, DR. JOHN F, b. Walla Walla, Wash, Mar. 25, 29; m. 58. GEOGRAPHY. B.Sc, Washington (Seattle), 52, M.A, 58; Ph.D.(geog), Chicago, 63. Geologist, U.S. Geol. Surv, 53-54; lectr. GEOG, Rutgers, 61-62, asst. prof, 62-63; MICHIGAN, 63-66, ASSOC. PROF, 66- Cultural geogr, food & agr. orgn, UN, 63. U.S.A, 46-48. AAAS; Asn. Am. Geog; Anthrop. Asn. Cultural ecology especially peasant resource utilizing systems in the Middle East. Publ: Tradition, season and change in a Turkish village, Dept. Geog, Chicago, 63; Locational aspects of cultural ecology: the case of the goat in nonwestern agriculture, Geog. Rev, 10/66; Types of rural development, In: Four studies on economic development of Turkey, Frank Cass & Co, Ltd, 67. Address: Dept. of Geography, University of Michigan, Ann Arbor, Mich. 48104.

KOLASA, DR. BLAIR J(OHN), Psychol, see 10th ed, Soc. & Behav. Vols.

KOLB, PROF. BURTON ARTHUR, b. Angola, Ind, Jan. 24, 22; m. 45; c. 3. BUSINESS ADMINISTRATION, FINANCE. A.B, Michigan, 46, M.B.A, 47; D.B.A, Washington (Seattle), 57. Credit man, Nat. Bank Detroit, 47-48; instr. finance, Washington (Seattle), 48-52; economist, Gerber Prod. Co, 52-54; asst. prof. FINANCE, Colorado, 56-58, assoc. prof, 58-64; vis. prof, Mich. State, 64-65; PROF, COLORADO, 65- Trustee & lectr, Nat. Installment Banking Sch, 61-; faculty dir. & lectr, Exec. Ed. Prog. for Gas Industs, 65- Consult, Mountain States Tel. & Tel. Co, 61-; Am. Tel. & Tel. Co, 62-65. U.S.A, 43-45. Finance Asn. Theory and appraisal of business risk; public utility revenue requirements and regulation; long-term financing of business enterprises. Publ: Co-auth, New concepts and current issues in public utility regulation, Peerless Pub. Co, 63; auth, The rise and fall of public utilities an appraisal of risk, J. Bus, 10/64; Risk, technological change, and long-term financing, public utility vs. industrials, Financial Anal. J. 11-12/65. Address: Dept. of Finance, University of Colorado School of Business, Boulder, Colo. 80302.

KOLB, DR. EUGENE, b. Gmuend, Germany, Feb. 3, 17; U.S. citizen; m. 44; c. 2. POLITICAL SCIENCE. B.A, City Col, New York, 61; M.A, City Univ. New York, 63; Ph.D.(int. rels), Yale, 66. DIR. FOR. SERV, ALMA COL. (MICH), 65- Mil.Intel, U.S.A, 42-63, Lt. Col. Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Theory of international politics and political development. Address: 435 Yale, Alma, Mich. 48801.

KOLB, DR. J(OHN) H(ARRISON), Rural Sociol, see 10th ed, Soc. & Behav. Vols.

KOLB, DEAN WILLIAM L, b. Cincinnati, Ohio, Sept. 26, 16; m. 40; c. 2. SOCIOLOGY. B.A, Miami (Ohio), 38; M.A, Wisconsin, 39; Ph.D.(sociol), 43. Instr. SOCIOL, Okla. Agr. & Mech. Col, 41-43, asst. prof, 46; Newcomb Col, Tulane, 46-48, assoc. prof, 48-51, prof, 51-59, head dept. sociol. & anthrop, 48-59, univ. chmn. sociol. & anthrop, 55-58; Fred B. Hill prof. sociol. & chmn. dept. sociol. & anthrop, Carleton Col, 59-64; PROF. SOCIOL. & DEAN COL, BELOIT COL, 64- Asst. ed, Am. Soc. Rev, 55-57. U.S.N.R, 43-46, Lt. Sociol. Asn. Sociological theory; value theory; value implications of sociological theory. Publ: Co-auth, Sociological analysis; A dictionary of the social sciences, Macmillan, 64; Changing prominence of values in modern sociological theory, In: Modern sociological theory. Address: Office of the Dean of the College, Beloit College, Beloit, Wis. 53511.

KOLBE, DR. RICHARD L(EE), b. Adamsdale, Pa, June 17, 32; m. 52; c. 2. POLITICS. A.B, Dartmouth Col, 54; M.A, Princeton, 62, Ph.D.(polit), 63. Spec. agent, Am. Casualty Co, Pa, 57-59; asst, Princeton, 61-62; instr. POLIT, CEDAR CREST COL, 62-63, asst. prof, 63-65, ASSOC. PROF, 65-, CHMN. DEPT, 63- Vis. lectr, Princeton, 63-65; Miranda House & Delhi Univ, 68-69. U.S.N, 54-57. Polit. Sci. Asn; Acad. Polit. Sci. American politics, especially public opinion, parties, and pressure groups. Address: R.D. 1, Schuylkill Haven, Pa. 17972.

KOLE, DR. CHRISTIAN, b. Amsterdam, Netherlands, July 23, 21; U.S. citizen; m. 60; c. 2. PSYCHIATRY. M.D, Netherlands, 52. Acting clin. dir, Kans. Childrens Receiving Home, 59-60; supt, Winfield State Hosp. for Retarded, 60-62; chief serv, Ill. State Psychiat. Inst, 62-67; DIR. COMMUNITY PSYCHIAT. CLIN, SEATTLE, WASH, 67- Clin. instr, 63-65, clin. asst. prof, 65- Dutch East Indian Army, 40-47, 1st Lt. Psychiat. Asn. Social psychiatry; clinical research in the use of the social forces present in groups and small managed societies; to treat mental patients. Address: 2009 Minor Ave. E, Seattle, Wash. 98102.

KOLE, DR. THEODORE, b. New York, N.Y, June 23, 31; m. 58; c. 2. PSYCHOLOGY. B.S, Brooklyn Col, 53; M.A, Columbia, 56; Esso Found. fel, N.Y. Univ, 56-57, Ph.D.(psychol), 64. Instr, Cooper Union, 55-59; prog. mgr, drivers safety serv, Int. Textbook Co, Pa, 59-68; PARTNER, HUMAN SCI, INC, 68- Adj. prof, Col. Ins, 63- Mem. exec. cmt, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 67- Int. prize basic studies & related res. hwy. safety, 63. U.S.A, 53-55. Psychol. Asn. Organizational planning and effectiveness; accident prevention research; management decision making. Publ: Co-auth, Accident reduction and knowledge of motorists' characteristics, Aspects Techniques de la Securite Routiere, 12/63, Cartoon reaction scale with special reference to driving behavior, J. Appl. Psychol, 8/66 & Driver improvement clinics: an evaluation study, Traffic Safety Res. Rev, 12/67. Address: 4 Grover Terrace, Glen Rock, N.J. 07452.

KOLEGAR, PROF. FERDINAND, b. Bratislava, Czech, Apr. 6, 29; nat; m. 57. SOCIOLOGY. Ph.C, Charles Univ, Prague, 51; M.A, Chicago, 59. Lectr. SOCIOL, Indiana, 60; ROOSEVELT, 60-61, asst. prof, 61-67, ASSOC. PROF, 67-, ASST. TO DEAN ARTS & SCI, 61- Vis. prof, Lund, 65. Sociol. Asn; Polit. Sci. Asn. Sociological theory; social stratification; political sociology; sociology of knowledge; history of social thought. Publ: The concept of rationalization and cultural pessimism, Sociol. Quart, fall 64; T.G. Masaryk's contribution to sociology, J. Hist. Behav. Sci, 1/67; The elite and the ruling class, Rev. Polit, 7/67. Address: Dept. of Sociology, Roosevelt University, Chicago, Ill. 60605.

KOLEHMAINEN, PROF. JOHN I(LMARI), b. Conneaut, Ohio, July 2, 10; m. 39; c. 3. POLITICAL SCIENCE. A.B, Western Reserve, 33, M.A, 34, Ph.D, 37. PROF. POLIT. SCI. & CHMN. DEPT, HEIDELBERG COL, 38- Vis. prof, Minnesota, 50-51; chief, Finnish Serv, Voice Am, U.S. Dept. State, 51-52; Fulbright lectr, Helsinki, 56, Turku, 65; Soc. Sci. Res. Coun. & Am. Philos. Soc. res. grants. Hist. Asn; cor. mem. Finnish Lit. Soc. History and government; Finns in the New World; Finland and Scandinavia. Publ: Haven in the woods: story of the Finns in Wisconsin; Sow the golden seed; Finns in America: bibliographical guide. Address: Dept. of Political Science, Heidelberg College, Tiffin, Ohio 44883.

KOLENDA, DR. PAULINE M(AHAR), b. Manchester, N.H, Feb. 4, 28; m. 62; c. 1. ANTHROPOLOGY, SOCIOLOGY. B.A, Wellesley Col, 49; fel, Cornell, 53-54, Ph.D.(sociol), 55. Res. assoc. sociol. & anthrop, Cornell, 54-58, fel, Cornell India Prog, 54-56; Am. Asn. Univ. Women Irma Voigt fel. SOCIOL. & ANTHROP, 58-59; instr, Arizona, 59-61; asst. prof, Mich. State, Oakland, 61-62; ASSOC. PROF, HOUSTON, 63- Res. grants, Am. Philos. Soc, 57-58 & Nat. Sci. Found, 65-68. Fel. Anthrop. Asn; fel. Sociol. Asn; Soc. Sci. Study Relig; Soc. Appl. Anthrop; Ethnol. Soc; Asn. Asian Studies. Caste, religion and family structure in rural India; social system of pre-professional ballet company. Publ: A multiple scaling technique for caste ranking, Man in India, 59; Toward a model of the Hindu Jajmani system, Human Orgn, 63; co-auth, Competition, cooperation and group cohesion in the ballet company, Psychiatry, 66. Address: Dept. of Sociology & Anthropology, University of Houston, Houston, Tex. 77004.

KOLERS, DR. PAUL A(RAM), Exp. psychol, see 11th ed, Phys. & Biol. Vols.

KOLKER, BERNDT L, b. Breslau, Germany, Aug. 16, 16; nat; m. 41; c. 1. ECONOMICS. Dipl, Berlin, 36; Trinity Col, Cambridge, 37. Consult, Brit. Bd. Trade, 47-51; chief economist, U.S. Econ. Stabilization Agency, 51-53; dir. res, Carter Corp, 53-54; head econ. res, Midwest Res. Inst, 54-59; dir. res. & continuing ed, Univ. Kansas City, 59-61, v.pres, 61-63; dir. dept. appl. econ. res, Houston-Southwest Res. Inst, 63-66; PROVOST, RAYMOND COL, UNIV. OF THE PACIFIC, 66- Consult, Midwest Res. Inst, 59-; State Planning Off, N.Mex, 65-; consult. & res. coordinator, Houston-Harris Co. Econ. Opportunity Orgn, 65-66. Hon. fel. Harry S. Truman Library Inst. Mil. Intel, U.S.A, 41-46, Capt. AAAS; Econ. Asn; Mkt. Asn; Regional Sci. Asn; Am. Acad. Arts & Sci; Acad. Polit. & Soc. Sci. Economic development; economic future of the Northern Plains States; economic prospects of Oak Ridge, Tennessee; urban problem areas, especially solutions leading to social and political integration through education of the underprivileged. Publ: Co-auth, The Settegast report, Off. Econ. Opportunity, 9/66. Address: 1148 Oxford Way, Stockton, Calif. 95204.

KOLLAT, DR. DAVID T, b. Elkhart, Ind, July 7, 38; m. 65; c. 1. MARKETING, CONSUMER BEHAVIOR. B.B.A, Western Michigan, 60, M.B.A, 62; D.B.A.(mkt), Indiana, 66. ASSOC. PROF. BUS. ORGN, OHIO STATE, 65- Finance C, U.S.A.R, 61-, Capt. Mkt. Asn. Consumer decision processes; in-store behavior, particularly impulse buying. Publ: Co-auth, Consumer behavior, Holt, 68; auth, A decision-process approach to impulse purchasing, Proc. Am. Mkt. Asn, fall 66; co-auth, Customer impulse purchasing behavior, J. Mkt. Res, 2/67. Address: Dept. of Business Administration, Ohio State University, 1775 S. College Rd, Columbus, Ohio 43210.

KOLLER, PROF. E(DWARD) FRED, b. Turtle Lake, Wis, Apr. 3, 07; m. 35. AGRICULTURAL ECONOMICS. B.A, Augustana Col, 29, LL.D, 57; M.A, Minnesota, 33, Ph.D.(econ), 38. Dir. pub. rels, Augustana Col, 29-30; asst. econ, MINNESOTA, ST. PAUL, 30-34, instr. AGR. ECON, 34-38, asst. prof,

38-42, assoc. prof, 42-46, PROF, 46- Tax analyst, U.S. Dept. Treas, 34; res. leader, coop. finance proj, Nat. Bur. Econ. Res, N.Y, 46-47. Collab, dairy br, Food Distrib. Admin, D.C, 43-45. Mem. cmt. study barriers to interstate movement milk, U.S. Dept. Agr, 54-55; bd. dirs. & consult, Experience, Inc, Minn, 63- Econ. Asn; Agr. Econ. Asn; Int. Asn. Agr. Econ. Marketing of agricultural products, especially dairy products; financing of agriculture and agricultural industries; agricultural cooperation. Publ: Cooperatives in a capitalistic economy; co-auth, Manufacturing costs in Minnesota creameries; Processing costs of whole milk creameries. Address: Dept. of Agricultural Economics, University of Minnesota, St. Paul, Minn. 55101.

KOLLER, PROF. E(RNST) FRANK, b. Milwaukee, Wis, Sept. 11, 29; m. 60; c. 2. GEOGRAPHY. B.A, Utah, 55; M.A, Brigham Young, 56; Ph.D.(geog), Pa. State, 64. Asst. prof. GEOG, Colo. State Col, 63-65; assoc. prof, MOORHEAD STATE COL, 65-67, PROF, 67-, CHMN. DEPT, 66- U.S.A, 52-54. Asn. Am. Geog. Historic and European geography. Publ: The Hansa of London: a geography, Pa. Geogr, 11/66; Bruges: major foreign depot of the Hanseatic League, Bull. Ill. Geog. Soc, 12/67; Austria, In: Encyclopaedia Junior Britannica, 69. Address: Dept. of Geography, Moorhead State College, Moorhead, Minn. 56560.

KOLLER, PROF. MARVIN R(OBERT), b. Cleveland, Ohio, Feb. 24, 19; m. 45; c. 1. SOCIOLOGY. B.S, Kent State, 40; M.A, Ohio State, 47, Ph.D.(sociol), 50. Instr. SOCIOL, KENT STATE, 49, asst. prof, 50, assoc. prof, 53-61, PROF, 61- Summers, Nat. faculty fel. soc. geront, California, Berkeley, 59, Nat. Sci. Found. award anthrop, Colorado, 62, dir, Nat. Sci. Found. Sr. High Sch. Teachers Inst. Sociol, Kent. State, 66 & co-dir, Nat. Sci. Found. Secondary Sch. Teachers Inst. Sociol, 67. U.S.A, 41-45. Sociol. Asn; Anthrop. Asn; Nat. Coun. Family Rels; Geront. Soc; Acad. Polit. & Soc. Sci. Marriage and family; racial and national minorities; social gerontology; ethnography of the American Indian; sociology of childhood and teaching. Publ: Co-auth, Sociology of childhood, Appleton, 64; auth, Modern sociology, Holt, 65; Social gerontology, Random, 68. Address: Dept. of Sociology & Anthropology, Kent State University, Kent, Ohio 44240.

KOLLER, DR. PHILIP ALEXANDER, Sociol, Econ, see 10th ed, Soc. & Behav. Vols.

KOLLMORGEN, PROF. WALTER M(ARTIN), b. Bancroft, Nebr, Feb. 10, 07. GEOGRAPHY. B.S, Nebraska, 31, M.A, 33; univ. fel, Columbia, 35-36; Soc. Sci. Res. Coun. field res. fel, 37-38, Ph.D.(geog), 40. Assoc. agr. economist, bur. agr. econ, U.S. Dept. Agr, 39-42, 43-45; economist, War Labor Bd, Atlanta, 42-43; dir. res, State Planning Bd, Tenn, 43; assoc. prof. GEOG, KANSAS, 46-47, prof, 47-64, DISTINGUISHED PROF, 64-, chmn. dept, 47-67. Fulbright res. grant, Germany, 54; Walker-Ames prof, Washington, 55; Soc. Sci. Res. Coun. fel, 63-64. Asn. Am. Geog.(ed, Ann, 55-60, pres, 66-67); Geog. Soc. Agricultural and cultural geography; public water policies. Address: Dept. of Geography, University of Kansas, Lawrence, Kans. 66044.

KOLMER, PROF. LEE R, b. Waterloo, Ill, Jan. 4, 28; m. 52; c. 3. ECONOMICS. B.S, Southern Illinois, 52; fel, Iowa State, 51-53, M.S, 52, Ph.D, 54. Res. assoc. econ, Iowa State, 53-54; asst. prof. agr. econ, Southern Illinois, 54-55; ECON, IOWA STATE, 56-58, assoc. prof, 58-62, PROF, 62-, ASST. DIR. UNIV. EXTEN, 65- Dir, Farmers Regional Coop, 67-69. U.S.A, 46-48. Agr. Econ. Asn; Acad. Polit. & Soc. Sci. Agricultural marketing problems, especially in livestock industry; market potential; development of agricultural related firms. Publ: Programs for expanding domestic demand for farm products; co-auth, Vertical coordination in agriculture, N.Cent. Regional Exten. Pub. 14, Iowa State Univ, 63 & Consumer decision making. Address: University Extension, Iowa State University, Ames, Iowa 50010.

KOLMIN, PROF. FRANK W, b. Vienna, Austria, Sept. 13, 15; nat; m. 38; c. 2. ACCOUNTING, ECONOMICS. B.Com, Vienna, 37; M.B.A, N.Y. Univ, 50; Ph.D.(econ), 61. Ed. & econ. control officer, Brit. Colonial Govt, Tanganyika, 41-45; instr. acct, Eastman Sch. Bus, 47-53; cost acct. & asst. plant mgr, Frankson Furniture Co, N.H, 53-54; asst. prof. acct, ITHACA COL, 54-57, assoc. prof. acct. & chmn. dept. econ. & bus, 57-60; prof. acct. & asst. dean col. arts & sci, 60-64; acting dean, 63-64; PROF. ACCT. & FINANCE, STATE UNIV. N.Y. ALBANY, 65- Dir. Coop. African Scholar. Prog, 60-62. Consult, bur. col. evaluation, N.Y. State Ed. Dept. Mem. steering cmt, African Scholar. Prog. Am. Univs, Harvard, 62- Am. Acct. Asn; Econ. Asn; African Studies Asn. Comparison of techniques and effects of monetary policy in various countries. Publ: Monetary policy in West Germany between 1948 and 1959; co-auth, Principles of accounting; co-auth, Handbook for auditors, McGraw, 68. Address: School of Business, State University of New York at Albany, Albany, N.Y. 12203.

KOLODZIEJ, DR. EDWARD ALBERT, b. Chicago, Ill, Jan. 4, 35; m. 59; c. 3. POLITICAL SCIENCE. B.S, Loyola (Ill), 56; M.A. & Ph.D, Chicago, 57. Policy analyst, Library Cong, 61-62; asst. prof. INT. RELS. & AM. FOR. POLICY, VIRGINIA, 62-66, ASSOC. PROF, 67-, CHMN. DEPT. GOVT. & FOR. AFFAIRS, 67- Mershon fel, Ohio State, 64-65; Rockefeller Found. fel, 65-66. Consult, Bendix Corp. & Res Anal. Corp, 66-; Mitre Corp, 67- U.S.A.F.R, 57-61. Polit. Sci. Asn. International relations, especially the role of military power; American and European foreign and security policy; American foreign policy-making, including civil military relations. Publ: The uncommon defense and Congress: 1945-63, Ohio State Univ, 66; Strategic policy and American government, Rev. Polit, 65; French strategy emergent, World Polit, 67. Address: Dept. of Government & Foreign Affairs, University of Virginia, Charlottesville, Va. 22903.

KOLSAN, STANLEY MITCHELL, Econ, Statist, see 10th ed, Soc. & Behav. Vols.

KOLSTAD, DR. ARTHUR, b. Clarissa, Minn, June 14, 96; m. 37; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, Washington (Seattle), 16, M.A, 20; Stanford, 23-24; fel, City Col. New York, 32-33; Ph.D.(ed. psychol), Columbia, 33. Dir. res, Houser Assocs, Inc, 33-38, partner, 38-48; dir, KOLSTAD ASSOCS, 48-66, CONSULT. INDUST. RELS, 66- Soc. sci. analyst, info. & ed. div, Army Serv. Forces, 44, consult, personnel div, Off. Qm. Gen, 45. U.S.A, 18, Lt. Psychol. Asn; Statist. Asn. Employee attitude surveys. Publ: Opinions on international problems as related to certain experience and background factors. Address: 4915 Skillman Ave, Woodside, N.Y. 11377.

KOLSTOE, PROF. OLIVER P(AUL), b. S.Dak, Feb. 28, 20; m. 44; c. 4. PSYCHOMETRICS. B.A, N.Dak. State Teachers Col, 41; M.S, North Dakota, 48; Ph.D, Iowa, 52. From instr. to assoc. prof. spec. ed, inst. res. except. children, Illinois, 52-56; prof. & chmn. dept, Southern Illinois, 56-62, exec. officer adv. grad. studies ed, 62-65; PROF. SPEC. ED, COLO. STATE COL, 65- Mem, Coun. Except. Children. U.S.A.A.F, 41-45, Lt. Fel. Asn. Ment. Deficiency. Exceptional children; mental deficiency; clinical educational diagnosis; cognative functions of the mentally retarded. Publ: Co-auth, A high school work study program for mentally subnormal students, Southern Illinois Univ. Press, 65; Review of research on the mentally handicapped, J. Ed. Res; Examination of some characteristics which discriminate between employed and not-employed mentally retarded males, Am. J. Ment. Deficiency. Address: 1863 Montview Blvd, Greeley, Colo. 80631.

KOLSTOE, PROF. RALPH H(ERTSGAARD), b. Valley City, N.Dak, Sept. 10, 26; m. 47; c. 4. EXPERIMENTAL PSYCHOLOGY. B.S, N.Dak. State Teachers Col, 48; M.S, North Dakota, 50; Ph.D.(psychol), Washington State, 53. Prin, pub. sch, Minn, 48-49; asst. PSYCHOL, North Dakota, 49-50; Wash. State, 50-53; res. assoc, HumRRO, George Washington, 53-55, res. scientist, 55-57, sr. res. scientist, 57; asst. prof, NORTH DAKOTA, 57-59, assoc. prof, 59-64, PROF, 64-, CHMN. DEPT, 62- Am. Psychol. Asn. vis. scientist, 66-68. Summers, instr, exten, Wash. State, 51; Nat. Sci. Found. fel, 59-60. Consult, HumRRO, George Washington, 57-58; State Testing Prog, N.Dak, 57- U.S.N, 44-46, Res, 46-51. AAAS; Psychol. Asn. Human and animal learning; experimental design and statistics. Address: 2108 Seventh Ave. N, Grand Forks, N.Dak. 58201.

KOLZ, DR. ARNO WILLI, Polit. Sci, Contemporary Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KOMAREK, PROF. VIOLA WYCKOFF, b. New Shrewsbury, N.J, Aug. 13; 08; m. 63. ECONOMICS. B.S, N.Y. Univ, 31, A.M, 33; Ph.D.(econ), Columbia, 45. Teaching fel. econ, Wash. Sq. Col, N.Y. Univ, 30-32, instr, 32-34; asst. field agent, U.S. Dept. Labor, 34; statistician, Nat. Recovery Admin, D.C, 34-35; asst. econ. analyst div. res. & statist, U.S. Treas. Dept, 35-39; instr. ECON, Iowa State, 39-43; asst. prof, Vassar Col, 43-45; Wellesley Col, 45-47; N.Y. UNIV, 47-59, assoc. prof, 59-64, PROF, 64- Consult, Consumer Coun. to Gov. Harriman, 55-58; mem, Nat. Ed. Adv. Cmt. Consumers' Union, 55-62. Econ. Asn. Brazilian economy and other Latin American economies; economic development; international standards of living. Publ: Public works wage rate and some of its economic effects, Columbia, 46; contrib, Paying for defense; auth, Brazilian standards of living, Estadistica, 9/62. Address: 281 Van Emburgh Ave, Ridgewood, N.J. 07450.

KOMAROVSKY, PROF. MIRRA, b. Russia. SOCIOLOGY. A.B, Columbia, 26, A.M, 27, Ph.D, 40. Instr, Skidmore Col, 27-28, asst. prof, 28-29; asst, inst. human rels, Yale, 30-31; res. assoc, coun. res. soc. sci, COLUMBIA, 31-35, from instr, to PROF. SOCIOL, BARNARD COL, 35-, CHMN. DEPT, 47- Buel G. Gallagher Prof, City Col. New York, 65. Sociol. Asn. Unemployment; family. Publ: Women in the modern world, Little, 53; ed, Common frontiers of the social sciences, Macmillan, 57; auth, Blue-collar marriage, Random, 64. Address: Dept. of Sociology, Barnard College, Columbia University, New York, N.Y. 10027.

KOMISAR, DEAN DAVID D(ANIEL), b. New York, N.Y, July 20, 17; m. 40; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 37, M.S, 40; Ph.D, Columbia, 53. Dir. guid, Mohawk Col, State Univ. N.Y, 46-48, dir. guid. & head dept. psychol, Champlain Col, State Univ, N.Y, 48-53; PROF. PSYCHOL, HARTFORD, 53-, DEAN FACULTIES, 67-, sch. arts & sci, 66-67, chmn. dept. psychol, 53-66. Res. grant, Dept. Health, Ed. & Welfare, 60; res. fel, U.S. Off. Voc. Rehab, 62-63. U.S.A, 43-46. Psychol. Asn; Personnel & Guid. Asn. Rehabilitation factors in physical and mental illness; mental retardation. Publ: Follow-up study of patients discharged from a rehabilitation center, Monograph. Address: 88 Northbrook Dr, West Hartford, Conn. 06117.

KOMIVES, DR. JOHN LOUIS, b. Detroit, Mich, Feb. 15, 30; m. 58; c. 4. BUSINESS ADMINISTRATION, ECONOMICS. B.S, Detroit, 52, M.B.A, 57; Ph.D.(bus. admin), Mich. State, 65. ASSOC. PROF. ECON. & BUS. ADMIN. & DIR. CENTER MGT. STUDIES, KALAMAZOO COL, 62-, DIR. DEVELOP. OFF, 67- U.S.A, 53-55. Econ. Asn; Acad. Mgt. Human factors of new business firm formation and the nature and character of the entrepreneur; nature of local and urban government systems on new enterprise formation. Publ: Characteristics of selected entrepreneurs, Univ. Microfilms, 65. Address: Dept. of Economics & Business Administration, Kalamazoo College, Kalamazoo, Mich. 49001.

KOMMERS, DR. DONALD P, b. Green Bay, Wis, Aug. 26, 32; m. 55; c. 2. POLITICAL SCIENCE. B.A, Catholic Univ, 54; M.A, Wisconsin, 57, Robert La Follette fel, 58-59, univ. fel, summer 60, Ph.D.(polit. sci), 62; Soc. Sci. Res. Coun. grant, Dartmouth Col, summer 61. Instr. polit. sci, Calif. State Col. Los Angeles, 59-60, asst. prof, 60-63; NOTRE DAME, 63-68, ASSOC. PROF. GOVT. & INT. STUDIES, 68- Nat. Sci. Found. study grant, Southern Methodist, 64; Univ. Wisconsin Justice Rosenberry Legal Res. Fund grant, summer 63; Am. Philos. Soc, Soc. Sci. Res. Coun. & Notre Dame Prog. W.European Studies res. grants, W.Germany, 67-68. U.S.M.C, 54-56, 1st Lt. Am. Polit. Sci. Asn; Int. Polit. Sci. Asn; Law & Society Asn. American government and politics; American public law and judicial behavior; comparative legal institutions and judicial behavior; role of the Federal Constitutional Court in West Germany's political system. Publ: The emergence of law and justice in pre-territorial Wisconsin, Am. J. Legal Hist, 64; The right to vote and its implementation, Notre Dame Lawyer, 64; Political science and the Supreme Court, J. Pub. Law, 67. Address: Dept. of Government & International Studies, University of Notre Dame, Notre Dame, Ind. 46556.

KOMORITA, DR. SAMUEL S(HOZO), b. Seattle, Wash, Apr. 7, 27; m. 48; c. 2. PSYCHOLOGY. B.S, Washington (Seattle), 50, M.S, 52; Ph.D.(psychol), Michigan, 57. Technician, State Employ. Serv, Wash, 51-52; training specialist PSYCHOL, Rand Corp, 56-57; ASST. PROF, Vanderbilt, 57-61; WAYNE STATE, 61- U.S.A, 44-47. Psychol. Asn; Statist. Asn. Social influence process; modes of conflict resolution; research methodology. Address: Dept. of Psychology, Wayne State University, Detroit, Mich. 48202.

KONCZACKI, DR. ZBIGNIEW ANDRZEJ, b. Lwow, Poland, Mar. 10, 17; Can. citizen; m. 52. ECONOMICS. B.Sc, London, 51, Ph.D.(econ), 64; fel, Natal, 56-61, B.Econ, 57. Asst. prof. ECON, Alberta, 61-63, assoc. prof, 63-68; PROF, DALHOUSIE, 68- I.W. Killam sr. vis. res. fel, Dalhousie, 67-68. Econ. adv, Repub. Somalia, 65; v.pres, Cmt. African Studies in Can, 65-66. 2nd Polish Corps, Brit. Army, 41-47; Lt. Am. Econ. Asn; fel. African Studies Asn; Econ. Hist. Asn; Can. Econ. Asn; Royal Econ. Soc. Economic problems of the newly developing countries, particularly in Africa; Economics of urban growth; economic history. Publ: Public finance and economic development of Natal 1893-1910, Duke, 67; co-auth, Political and economic systems, Dent, 67; auth, Banking system and economic development of Ethiopia, In: Problems of economic development, Heath, 67. Address: Dept. of Economics, Dalhousie University, Halifax, N.S, Can.

KONDONASSIS, PROF. ALEXANDER J(OHN), b. Athens, Greece, Feb. 8, 28; m. 56; c. 2. ECONOMICS. B.A, DePauw, 52; univ. scholar, Indiana, 52-54, M.A, 53, Ph.D.(econ), 61. Assoc. ECON, Indiana, 54-56, lectr, 56-58; asst. prof, OKLAHOMA, 58-62, assoc. prof, 62-64, PROF, 64-, CHMN. DEPT, 61-, res. grant, res. inst, 65-66. Guest lectr, exec. & indust. develop. & family finance, 58-; Fulbright prof, Athens Sch. Econ. & Bus, 65-66; Wilton Park Conf. fel, Sussex, Eng, 66. Mem. bd. Am. Friends Wilton Park, 67. Econ. Asn; Econ. Hist. Asn. Problems of the European economic community: inflation and economic development. Publ: Co-auth, The emergent nations: problems for the sixties & An economic base study of Lawton, Oklahoma, Univ. Oklahoma, 63; auth, Economic planning and free enterprise, Bull. Commerce & Indust, Salonica, Greece, 7/66. Address: Dept. of Economics, University of Oklahoma, Norman, Okla. 73069.

KONEFSKY, PROF. SAMUEL J, b. Russia, Jan. 15, 15; nat; m. 39; c. 2. POLITICAL SCIENCE. B.A, Brooklyn Col, 37; M.A, Columbia, 38, Ph.D. (Am. govt), 44. Mem. staff, dept. POLIT. SCI, BROOKLYN COL, 37-47, asst. prof, 47-58, assoc. prof, 58-64, PROF, 64- Lectr, Columbia, 46; Soc. Sci. Res. Coun. fel, 48, 51-52, faculty res. fel, 58-59, 64-65; Guggenheim fel, 50-52; Am. Philos. Soc. res. grants, 50-53, 65-67; Rockefeller Found. grant, 54-55; mem. Inst. Adv. Study, 57-59; vis. prof, Hopkins, 59; hon. res. assoc. govt, Harvard, 64-65. Polit. Sci. Asn; Hist. Asn. American government and jurisprudence: constitutional law; political ideas. Publ: Chief Justice Stone and the Supreme Court; The legacy of Holmes and Brandeis; John Marshall and Alexander Hamilton: architects of the American constitution. Macmillan, 64. Address: Dept. of Political Science, Brooklyn College of the City University of New York, Bedford Ave. & Ave. H, Brooklyn, N.Y. 11210.

KONIETZKO, DR. KURT OTTO, b. Free City of Danzig, Sept. 25, 24; nat; m. 49; c. 1. PSYCHOLOGY, PENOLOGY. A.B, Chicago, 51; M.A, Temple, 53, Ph.D, 59. Clin. psychologist, East. Correctional Diag. & Classification Center, 54-56; sr. clin. psychologist, State Correctional Instn. Phila, Pa, 56-58; dir. psychol, N.J. State Penitentiary, 58-60; clin. psychologist, Phila. Parole Narcotic Proj, State Bd. Parole, Pa, 60-63; supvr. dist. 1, Pa. Bd. Parole, Phila, 63-66; DIR. PA. BR, INST. RATIONAL LIVING, INC, 66- Consult, Northwest. Ment. Health Center, 66-67; Quart. Sessions Court, Phila, Warminister Day Care Center & dept. psychiat. Temple Univ, 67. Mem. adv. cmt, spec. proj. hard-to-reach youth, YMCA, Pa, 61-62; Nat. Coun. Crime & Delinquency; del, White House Conf. Narcotic & Drug Addiction; testified before U.S. Cong. Sub-cmt. Hearing Obscenity. U.S.N, 42-48, Res, 51-53. AAAS; Psychol. Asn; Group Psychother. Asn; Asn. Correctional Psychol; Correctional Asn. Development of effective treatment techniques; societal and penal reform and rational-emotive therapy. Publ: The Philadelphia parole narcotics project, Am. J. Corrections, 3-4/66; Psychological aspects of institutional incentive systems, Pa. Prison J, spring/summer 67; co-auth, The classification of drug addicts, Corrective Psychiat. J. Soc. Ther, 3/67. Address: 117 Spring Lane, Hatboro, Pa. 19040.

KONIGSBURG, DR. DAVID, b. Sharon, Pa, Dec. 29, 25; m. 52; c. 1. PSYCHOLOGY. B.S, Pittsburgh, 48, M.S, 49, Ph.D.(psychol), 54. Res. analyst indust. res, south-cent. home off, Prudential Ins. Co. Am, 54-56, mgr. res. div, 56-63; psychologist, Psychol. Corp, 63-65; mgr. N.Y. off, Personnel Res. & Develop. Corp, 65-67; ASSOC. DIR. PLANNING & ANAL. STAFF, SOUTH-CENT. HOME OFF, PRUDENTIAL INS. CO. AM, 67- U.S.A, 44-46. Psychol. Asn. Personnel, industrial and military research; manpower development; marketing; cost allocation. Address: 9424 Conifer Rd, Jacksonville, Fla. 32217.

KONIJN, PROF. H(ENDRIK) S(ALOMON), Econ, Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vols.

KONITZKY, PROF. GUSTAV ADOLF, b. Bremen, Germany, Nov. 13, 24; U.S. citizen; div. ANTHROPOLOGY. B.A, Bonn, 49; M.S, Purdue, 51; Ph.D. (ling, folklore) Indiana, 54. Instr. German Lit, Harvard, 55-58; dir. int. prog, Boston, 58-62; vis. assoc. prof. ANTHROP, Keene State Col, 63; PROF, CLARION STATE COL, 63-, CURATOR ARCHAEOL. LAB, 64- Summer res. assoc, Indiana, 55 & 56. Dir, Essex County Archaeol. Surv, Mass, 59-62; dir, Archaeol. Field Prog. & Summer Field Sch, Clarion, Pa, 64-; prin. investr, Clarion River Surv, Nat. Park Serv, 67. German Army, 41-45. Anthrop. Asn. Archaeology of eastern North America; archaeological survey and excavations in Alleheny River drainage since 1964. Publ: Nordamerikanische Indianermaerchen, Diederichs, 63; Nordamerikanische Indianermasken, Zeitschrift Ethnologie, 68. Address: Dept. of Anthropology, Clarion State College, Clarion, Pa. 16214.

KONTAK, PROF. WALTER J(OSEPH) F(RANCIS), b. New York, N.Y, Apr. 13, 19; Can. citizen; m. 54; c. 9. POLITICAL SCIENCE. B.A, St. Francis Xavier, 49; London Sch. Econ, 49; summer, Freiburg, 50; M.A, Oxford, 52. From lectr. to assoc. prof. POLIT. SCI, ST. FRANCIS XAVIER, 52-62, PROF. & HEAD DEPT, 63- Can. Coun. award, 63; St. Francis Xavier Coun. Res. travel-study award, Caribbean, 68. Summers, Can. Coun. award, 62, Soc. Sci. Res. Coun. Can. award, 63. Mem, Can. Inst. Int. Affairs, 64-; exec. coun, Soc. Sci. Res. Coun. Can, 67- Am. Polit. Sci. Asn; Inst. Pub. Admin. Can; Can. Polit. Sci. Asn. Politics of developing nations; politics and economics; modern ideologies. Publ: Some important Caribbean questions, St. Francis Xavier, 63. Address: Dept. of Political Science, St. Francis Xavier University, Antigonish, N.S, Can.

KONVITZ, PROF. MILTON R, Law, see 5th ed, Dir. of Am. Scholars, Vol. IV, Philos, Relig. & Law.

KOO, PROF. ANTHONY Y(ING) C(HANG), b. Shanghai, China, Nov. 22, 18; m. 43; c. 3. ECONOMICS. B.A, St. John's (China), 40; M.S, Illinois, 41; A.M, Harvard, 43, Ph.D, 46. Tech. counsr, Chinese del, Far East. Cmn, 46-50; lectr. ECON, Mich. State, 50-51, asst. prof, 51-55, assoc. prof, 55-58, PROF, 58-64; Michigan, 64-67; MICH. STATE, 67- Lectr, Inst. Econ, Academia Sinica & Taiwan Univ, summer, 66. Soc. Sci. Res. Coun. fel, 53, 57; Ford Found. fel, 56-57, 61-62; Nat. Sci. Found. res. grant, 65-67. Economet. Soc. Theory of international trade; economic problems of the Far East. Publ: The role of land reform in economic development—a case study of Taiwan, Praeger, 68; Duty and non-duty imports and income distribution, Am. Econ. Rev, 3/53; An empirical test of revealed preference theory, Econometrica, 10/63. Address: Dept. of Economics, Michigan State University, East Lansing, Mich. 48823.

KOO, DR. SHOU ENG, b. Kiangsu, China, Jan. 13, 21; U.S. citizen. ECONOMICS. Ph.D.(econ), Columbia, 61. Asst. prof. ECON, John Carroll, 61-66; vis. assoc. prof, Georgia, 66-67; ASSOC. PROF, INDIANA, 67- Summers, Ford Found. faculty fel. res. seminar, Chicago, 64, Econ-in-Action fel, Case, 65. Econ. Asn; Soc. Int. Develop; Acad. Polit. Sci. International economics and economic development. Publ: Tariff and the development of cotton industry in China: 1842-1937, Univ. Microfilm, Inc, 61; Export expansion, industrial development and economic growth: the experience of Hong Kong, Asian Surv, Univ. California, 67; Changing patterns of trade and development, Bentley Bus. & Econ. Rev, 67. Address: 428 W. 46th St, Indianapolis, Ind. 46208.

KOO, DR. YOUNG WHE, b. Seoul, Korea, May 21, 27; m. 61; c. 2. ECONOMICS, AGRICULTURAL ECONOMICS. B.B.A, Georgia, 58; M.B.A, Alabama, 60; Ph.D.(agr. econ), Ohio State, 63. Asst. prof. ECON, OTTERBEIN COL, 63-65, ASSOC. PROF, 65-, CHMN. DEPT. ECON. & BUS. ADMIN, 67-, acting chmn, 65-67. Mkt. consult, Tectum Corp, Ohio, 63-66; mgt. consult, Popular Oil Co, 66. Korean Army, 50-54, 1st Lt. Economics; statistics. Publ: Co-auth, Labor efficiency in super markets, Ohio Agr. Exp. Sta, 63. Address: Dept. of Economics & Business Administration, Otterbein College, Westerville, Ohio 43081.

KOOKER, PROF. EARL W(INTON), b. Ruthven, Iowa, Sept. 30, 20; m. 47; c. 4. PSYCHOLOGY. B.A, Cent. Col.(Iowa), 42; M.S, N.Tex. State Col, 48; Ph.D, Iowa, 51. From assoc. prof. to PROF. PSYCHOL. & ED, N.TEX. STATE COL, 51- Sig.C, U.S.A, 42-46. Psychol. Asn. Child psychology; measurement and statistics; psychology of learning. Address: Box 6357, North Texas Station, Denton, Tex. 76203.

KOONS, DR. PAUL B(IRLEY), JR, b. Baltimore, Md, Apr. 22, 24; m. 53; c. 1. PSYCHOLOGY. A.B, Hopkins, 53; A.M, Mich. State, 58, Ph.D.(psychol), 60. Instr. PSYCHOL, Mich. State, 58-59; asst. prof, OHIO, 59-66, ASSOC. PROF, 66- AAAS; Psychol. Asn; Soc. Proj. Tech. Interaction of personality factors in learning, motivation and performance; operational formulation of psychoanalytic concepts. Address: Dept. of Psychology, Ohio University, Athens, Ohio 45701.

KOONTZ, PROF. DONALD H, b. Warsaw, Ind, Jan. 8, 15; m. 34; c. 2. SOCIOLOGY. A.B, Asbury Col, 44; B.D, Garrett Biblical Inst, 47; M.S, Iowa State Col, 58. Dir, LaGrange County Larger Parish, Methodist Church, 48-52; ASSOC. PROF. SOCIOL. & ANTHROP, SIMPSON COL, 52- Prof, exten. sch, Cent. Baptist Sem, 55-56; vis. lectr, Garrett Biblical Inst, 55; Oberlin Sch. Theol. Rural Sch, 56, 59. Sociol. Asn; Rural Sociol. Soc. Population studies; rural church surveys of Indiana and Iowa; decision making in the rural church; effect of aviation on a community; implications of aviation and space travel for theology and philosophy. Publ: Louisiana urban church extension needs, Nat. Div. Bd. Missions Methodist Church, 66. Address: 1009 Ann Pkwy, Indianola, Iowa 50125.

KOONTZ, PROF. HAROLD, b. Findlay, Ohio, May 19, 08; m. 35; c. 2. ECONOMICS, BUSINESS MANAGEMENT. A.B, Oberlin Col, 30; fel, Northwestern, 30-31, M.B.A, 31; Strathcona fel, Yale, 31-32, Ph.D.(econ), 35. Asst. prof. econ, Colgate, 35-42; chief traffic br, War Prod. Bd, 42-44; asst. to v.pres, Asn. Am. R.R, 45; asst. to pres, Trans World Airlines, 45-48; dir. commercial sales, Consol. Vultee Aircraft Co, 48-50; prof. bus. policy & transportation, CALIFORNIA, LOS ANGELES, 50-62, MEAD JOHNSON PROF. MGT, 62- Consult, 50-, corporate dir, 51- Mem, Los Angeles Airport Cmn, 61-65; pres, Inst. Admin. Res, Inc, 65- Mead Johnson award, 62. AAAS; Econ. Asn; Soc. Traffic & Transportation; Mgt. Asn; fel. Acad. Mgt. (pres, 63); fel. Int. Acad. Mgt. Management theory and policy. Publ: Public control of private enterprise, 56, Board of directors and effective management, 67 & co-auth, Principles of management 55, 59, 64 & 68, McGraw. Address: 4838 Gloria Ave, Encino, Calif. 91316.

KOOP, DR. JOHN C, Exp. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KOOPMANS, PROF. TJALLING C(HARLES), b. Holland, Aug. 28, 10; nat; m. 36; c. 3. ECONOMICS, STATISTICS. M.A, Utrecht, 33; Ph.D, Leiden, 36; hon. Dr, Netherlands Sch. Econ, 63, Louvain, 67. Lectr, Netherlands Sch. Econ, 36-38; economist, financial sect, League of Nations, Geneva, 38-40; res. assoc, Princeton, 40-41; economist, Penn Mutual Life Ins. Co, 41-42; statistician, Combined Shipping Adjustment Bd, 42-44; assoc. prof. ECON, Chicago, 46-48, PROF, 48-55; YALE, 55-; RES. ASSOC,

COWLES CMN, 44-, dir. res, 48-54, dir, Cowles Found, 61-67. Lectr, N.Y. Univ, 40-41; Frank W. Taussig prof, Harvard, 60-61. Econ. Asn.(v.pres, 66); fel. Statist. Asn; fel. Economet. Soc.(v.pres, 49, pres, 50); Oper. Res. Soc; fel. Inst. Math. Statist; Inst. Mgt. Sci; Int. Statist. Inst. Mathematical economics; econometrics. Publ: Three essays on the state of economic science; ed. & contrib, Activity analysis of production and allocation & Studies in econometric method, Cowles Cmn. Monogr. Address: 30 Hillhouse Ave, New Haven, Conn. 06520.

KOORENNY, DR. RALPH LLOYD, b. Ryder, N.Dak, May 18, 18; m. 42. ECONOMICS. B.A, Walla Walla Col, 46; M.A, Washington State, 48; Ph.D.(econ), Colorado, 57. Instr. bus. admin. & econ, La Sierra Col, 48-51, asst. prof, 51-55, assoc. prof, 55-58, prof, 58-65, head dept, 51-65; asst. acad. v.pres, Haile Sellassie, 65-67; DEAN COL. ARTS & SCI, LOMA LINDA, 67- Sig.C, U.S.A, 42-46. Econ. Asn. Regional economic development, especially the role of the steel industry in a developing country or region. Address: 4948 Linn Dr, La Sierra, Calif. 92505.

KOPEL, PROF. DAVID, b. Czenstachowa, Poland, Feb. 22, 10; nat; m. 32. PSYCHOLOGY. B.S. Northwestern, 30. M.S, 34, Ph.D.(ed. & clin. psychol), 35. Psychologist & instr, sch. ed. Northwestern, 34-38; teacher psychol. & ed, Chicago Teachers Col. 38-43, 49-54; supt. schs, Dependent Schs. Serv, Austria, 46-47; specialist teacher ed. U.S. Allied Cmn. Austria, 47-49; dir. psycho-ed. clin, Northwestern, 50-51; dir. grad. sch, CHICAGO STATE COL, 54-61, PROF. PSYCHOL. & ED. 59- Ed, Ill. Schs. J, 66- Dipl, Am. Bd. Exam. Prfnl. Psychol. U.S.A, 43-46. Res, 46-, Lt. Col. Psychol. Asn; Acad. Psychother; Int. Coun. Psychol. Psychology of reading; counseling and psychotherapy. Publ: Co-auth, Reading and the educative process; co-auth. Educational diagnosis and remedial instruction, Ment. Hyg. Mod. Ed; auth. Applications of clinical psychology in educational psychology, Progress Clin. Psychol. Address: Dept. of Psychology, Chicago State College, 6800 S. Stewart Ave, Chicago, Ill. 60621.

KOPLIN, PROF. H(ARRY) T(HOMAS), b. Elyria, Ohio, May 2, 23; div; c. 3. ECONOMICS. A.B, Oberlin Col, 47; Ph.D.(econ), Cornell, 52. Instr. ECON, OREGON, 50-53, asst. prof, 53-59, assoc. prof, 59-65, PROF, 65-, dir. honors col. & asst. dean col. lib. arts, 59-61. Fund Adv. Ed. faculty fel, 54-55. U.S.A, 43-46. Econ. Asn. Government regulation of business; economic theory. Publ: Conservation and regulation, the natural gas allocation policy of the Federal Power Commission, Yale Law J; The profit maximization assumption, Oxford Econ. Papers, 63. Address: Dept. of Economics, University of Oregon, Eugene, Ore. 97403.

KOPLIN, DR. ROBERTA E. b. Endicott, N.Y, Mar. 26, 32; m. 53, 64; c. 3. POLITICAL SCIENCE. B.A, Oregon, 53, M.A, 65, Ph.D.(polit. sci), 68. INSTR. POLIT. SCI. OREGON, 67- Comparative politics. Publ: Kenya students and politics. In: African students and politics. Basic Books, 68; co-auth, Students and politics, In: Students and politics in developing countries, Praeger, 68. Address: 2272 McMillan St, Eugene, Ore. 97405.

KOPLITZ, PROF. EUGENE DE VERE, b. Withee, Wis, Apr. 30, 28; m. 53; c. 1. PSYCHOLOGY, COUNSELING & GUIDANCE. B.S, Wis. State, 50; M.S, Wisconsin, 55, Ph.D, 58; Harvard, 63-64. Teacher, Barron Sr. High Sch, 50-52: asst. ed. psychol, Wisconsin, 55-56, researcher, gifted students, col. eng. & sch. ed, 56-58: assoc. prof. psychol. guid, COLO. STATE COL, 58-65, PROF. PSYCHOL, COUNSELING & GUID, 65-, ASSOC. DEAN HONORS PROG, 67- Consult, ed. planning serv, Ford Found. & Colo. State Dept. Ed, 58-62. U.S.A, 52-54. Personnel & Guid. Asn; Student Personnel & Teacher Ed; Psychol. Asn; Asn. Counsr. Ed. & Supv. Publ: Guidance in the elementary schools: theory research and practice, W.C. Brown, 68; Oral problem-solving and essay writing: an approach to greater understanding of the more able student; Comparison of mental performances of superior and average ninth-grade students. Address: Dept. of Psychology, Counseling & Guidance, Colorado State College, Greeley, Colo. 80631.

KOPLYAY, DR. JANOS B. v, b. Budapest, Hungary, June 24, 24; m. 58; c. 4. PSYCHOLOGY, COMPUTER SCIENCE. E.E, Budapest Tech, 49; M.A.T, Northwestern, 63, Ph.D.(ed. psychol). 66. Elec. engr, Hungary, 48-49; Ygnis A.G, Switz, 49-51; asst. chief engr, Matarazzo Ltd, Brazil, 51-53; elec. engr, S.P.I.G, San Paulo, 53-56; asst. mgr. eng, Plibrico Inc, Ill, 57-60; teacher, high sch. Ill, 62-64; instr. math. ed, Northwestern, 65-66, ASST. PROF. ED. PSYCHOL, 66-68; WASHINGTON (ST. LOUIS). 68- Dir. res, Carnegie Proj, Northwestern, 66-67, psychol. testing specialist, Int. Teacher Ed, 67. Statist. consult, Chicago Bd. Ed. 66; Children's Press, Inc, 66; statist. & comput. consult, Wilmette Bd. Ed, 66. Statist. Asn; Psychol. Asn; Ed. Res. Asn. Mathematical statistics applied to psychological research; computer assisted instruction; computer technology applied to research. Address: Graduate Institute of Education, Washington University, St. Louis, Mo. 63130.

KOPP, DR. HARRIET GREEN, b. New York, N.Y; m. 46. PSYCHOLOGY, AUDIOLOGY. B.A, Brooklyn Col, 37, M.A, 39; cert, Lexington Sch. for Deaf, 39, Ph.D.(psychol), Columbia, 62. Instr. speech path. & phonetics, Brooklyn Col, 37-40; instr. & dir. audiol. clin, Indiana, 40-41; res. assoc, Teachers Col, Columbia, 41-43; mem. tech. staff, Bell Tel. Labs, 43-46; assoc. prof. & dir. prog. for training teachers of deaf & speech correction, Eastern Michigan, 46-48; dir. speech correction, Birmingham Bd. Ed, 48-55; dir. speech & hearing clin, Rehab. Inst. Metrop. Detroit, 55-59; PRIN. & SUPVR. DEAF, HARD OF HEARING & APHASIC, DETROIT DAY SCH. FOR DEAF, 59- Mem. affiliated staff, Wayne State, 48- Consult, U.S. Off. Ed, 64- Mem. adv. panel teacher certification, U.S. Off. Ed, 62-67; nat. adv. bd, Nat. Tech. Inst. for Deaf, 66-67; nat. adv. cmt. on ed. of deaf, Off. Secy. Dept. Health, Ed. & Welfare, 66-69. Fel. Speech & Hearing Asn; Coun. Except. Children; Alex. Graham Bell Asn. for Deaf. Experimental and acoustic phonetics; speech pathology. Publ: Co-auth, Visible speech, Van Nostrand, 48 & Dover, 66; auth, Some functional applications of basic phonetic principles, Edwards Letter, 48-61; co-auth, The handicapped child, C.C. Thomas, 55. Address: 290 Harrow Circle, Birmingham, Mich. 48008.

KOPP, DR. SHELDON BERNARD, b. New York, N.Y, Mar. 29, 29; m. 53; c. 3. CLINICAL PSYCHOLOGY. B.A, N.Y. Univ, 49; Brooklyn Col, 49-51; M.A, New Sch. Soc. Res, 57, Ph.D.(psychol), 60. Intern & staff psychologist, State Insts. & Agencies, N.J, 51-53; clin. psychologist & head dept. psychol, U.S. Army Hosp, Ft. Carson, Colo, 53-55; clin. psychologist & acting head dept, N.J. State Hosp, Trenton, 55-60; clin. psychologist, adult ment. health div, D.C. Dept. Pub. Health, 61-62, chief psychologist, 62-66; PSYCHOTHERAPIST, 66- Instr, exten. div, Colorado, 54; psychologist, pub. schs, N.J, 55-60; assoc. clin. prof, George Washington, 64- U.S.A, 53-55, Sgt. Psychol. Asn; Acad. Psychother. Psychotherapy. Publ: Character structure of sex offenders, Am. J. Psychother; co-auth, Multiple psychotherapy, Psychiat. Quart. Supp; auth, On not getting to know one another, Voices, 65. Address: 5225 Connecticut Ave, N.W, Washington, D.C. 20015.

KOPPA, DR. F. RUSSELL, Phys. & Anal. Chem, Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KOPPA, RODGER J(OSEPH), b. Oak Park, Ill, June 23, 36; m. 57; c. 2. ENGINEERING PSYCHOLOGY. B.A, Texas, Austin, 58, M.A, 60; Texas Christian, 62-67. Res. asst. psychol, Texas, 59-60, res. assoc, 60-61; human factors engr, missiles & space div, LTV Aerospace Corp, 61-63, sr. life systs. engr, 63-67, SPECIALIST, 67; APOLLO SYSTS. DEPT, MISSILE & SPACE DIV, GEN. ELEC. CO, 67- Spec. lectr, Texas, Arlington, 65. Psychol. Asn; Human Factors Soc. Human factors; vision; human performance in space suits; personal equipment; display-control research and development; manned system simulation. Publ: A survey of current display and control concepts, 3/64 & Distance estimation under space conditions: un-reinforced range perception as a function of presence of star field, 6/65, LTV Aerospace Reports; co-auth, First and second simulator evaluations of advanced integrated display and control systems, NASA, 6/67. Address: 1031 Ramada Dr, Houston, Tex. 77058.

KOPPE, DR. WILLIAM A(RAM), b. Brooklyn, N.Y, July 31, 17; m. 48; c. 3. PSYCHOLOGY. B.A, Yankton Col, 48; M.A, South Dakota, 49; Ph.D.(psychol), Kansas, 54. Asst. instr, Kansas, 49-50, res. assoc, 50-53; asst. prof, Inst. Child Welfare, Minnesota, 53-54; res. assoc, Character Res. Proj, Union (N.Y), 54-67; SECY. ED. RES, DEPT. RES. BD. PARISH ED, LUTHERAN CHURCH IN AM. 67- U.S.A.A.F, 43-46. Psychol. Asn; Sociol. Asn. Developmental psychology; learning theory; educational psychology. Publ: Attitude measurement studies; Learning went on here, Relig. Ed; Psychological meanings of housing and furniture, Marriage & Family Living. Address: Board of Parish Education, 2900 Queen Lane, Philadelphia, Pa. 19129.

KOPPENAAL, DR. RICHARD J(OHN), b. Milwaukee, Wis, Mar. 27, 30; m. 51; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, British Columbia, 55, M.A, 56; Ph.D.(psychol). McGill, 58. Lectr. PSYCHOL, Manitoba, 58-59, asst. prof, 59-64; ASSOC. PROF, N.Y. UNIV, 64- Learning; memory. Publ: Recovery from ECS-produced amnesia, Psychonomic Sci, 67; co-auth, Human learning and memory, Oxford Univ, 67; Proactive inhibition of a maze habit, J. Exp. Psychol, 68. Address: Dept. of Psychology, Washington Square College, New York University, New York, N.Y. 10003.

KOPPENHAVER, DR. NEIL D(AVID), b. East Stroudsburg, Pa, Feb. 22, 29; m. 54; c. 1. CLINICAL PSYCHOLOGY. B.S, Muhlenberg Col, 54; M.A, Lehigh, 57; Ph.D, Purdue, 61. Asst. psychol, Lehigh, 55-56; clin. psychol. intern, Allentown State Hosp, 56-57; trainee, Vet. Admin. Hyg. Clin. & Hosp, 57-60; clin. psychologist, Vet. Admin. Hosp, Lyons, 61-62; supvry. clin. psychologist, D.C. Govt. Children's Center, Md, 62-65; asst. prof. psychol, Keene State Col, 65-67; CHIEF PSYCHOLOGIST, MONADNOCK AREA FAMILY SERV. & COMMUNITY MENT. HEALTH CLIN, 67- Consult. psychologist, phychol. labs, Stevens Inst. Tech; New Hope Center, 67-; Monadnock Area Spec. Serv. Center for Children, 67- Mem, Governor's Voc. Rehab. Planning Cmn, 67- U.S.A, 46-48. Psychol. Asn. Learning theory; developmental and counseling psychology; psychotherapy. Address: Thistle Hill, Kingsbury Rd, Walpole, N.H. 03608.

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KOPPMAN, DR. JERRY W(ILLIAM), b. Cincinnati, Ohio, Jan. 24, 34; m. 56; c. 2. PSYCHOLOGY. B.S, Kentucky, 59; A.M, Illinois, 61, Ph.D.(psychol), 63. Asst. prof. PSYCHOL, SAN DIEGO STATE COL, 63-67, ASSOC. PROF, 67- U.S.A, 54-56. AAAS; Psychol. Asn. Brain mechanisms and behavior; effect of spreading cortical depression on learning, preference, and interhemispheric transfer of engrams in rats. Publ: Co-auth, Goal-box and alley similarity in latent extinction, J. Exp. Psychol, 63 & Unilateral cortical spreading depression: a determiner of behavior at a choice point, J. Comp. & Physiol. Psychol, 66. Address: Dept. of Psychology, San Diego State College, San Diego, Calif. 92115.

KOPRA, PROF. LENNART L(AURI), b. Virginia, Minn, Jan. 12, 24; m. 51; c. 3. AUDIOLOGY, SPEECH. B.A, Wittenberg Col, 51; M.A, Northwestern, 52, Ph.D.(audiol), 54. Asst. prof. SPEECH, TEXAS, AUSTIN, 54-58, assoc. prof, 58-62, PROF, 62-, DIR. SPEECH & HEARING CLIN, 61- U.S.A.A.F, 43-46, Res, 46-60, Med.Serv.C. Res, 60-, Lt. Col. AAAS; Acoustical Soc; Speech & Hearing Asn; Speech Asn. Am; Int. Soc. Audiol. Psychophysics of audition; standardization of clinical audiologic procedures; education of the deaf; speech pathology. Address: Dept. of Speech, School of Communication, University of Texas, Austin, Tex. 78712.

KOPSTEIN, DR. FELIX F(RIEDRICH), b. Vienna, Austria, Nov. 4, 24; nat; m. 46; c. 2. EXPERIMENTAL PSYCHOLOGY. A.B, Pennsylvania, 49, A.M, 51; Ph.D, Illinois, 60. Aviation psychologist, Human Resources Res. Labs, U.S. Air Force, 50-53, exp. psychologist, personnel & training res. center, 53-56, res. psychologist, behav. sci. lab, 56-61; dir. auto-instr. syst. div, Burroughs Corp, 61-64; dir. inst. res, Ed. Testing Serv, 64-66; SR. SCIENTIST, HUMRRO, 66- Prof. lectr, Rutgers, 65; Pennsylvania, 66. Tech. adv, ballistic missile div, U.S. Air Force, 57-58; consult, Pittsburgh Coord. Ed. Center, 60; Univ. Coun. Ed. Admin, 65-66. Psychol. Asn; Inst. Elec. & Electronics Eng; Ed. Res. Asn; Int. Asn. Appl. Psychol; Soc. Gen. Systs. Res. Theories of learning; programmed instruction; systems science and cybernetics; models of the instructional process. Address: Human Resources Research Office, 300 N. Washington St, Alexandria, Va. 22314.

KOPYTOFF, DR. IGOR, b. Mukden, China, Apr. 16, 30; nat; m. 67. ANTHROPOLOGY. B.A, Northwestern, 55, Soc. Sci. Res. Coun. & Woodrow Wilson fels, 55-56, univ. fel, 56-57, Ph.D.(anthrop), 60; Ford Found. fel, 57-59; M.A, Pennsylvania, 58. Instr. ANTHROP, Brown, 60-62; asst. prof, PENNSYLVANIA, 62-65, ASSOC. PROF, 65- Soc. Sci. Res. Coun-Am. Coun. Learned Soc. grant, 64. Anthrop. Asn; African Studies Asn. Cultural anthropology of Africa and northern Asia, relating to social and political organization and religion. Address: Dept. of Anthropology, University of Pennsylvania, Philadelphia, Pa. 19104.

KORANYI, DR. KARL HENRY, b. Vienna, Austria, July 26, 02; U.S. citizen; m. 39. ECONOMICS, POLITICAL SCIENCE. Dipl, Acad. World Trade, Vienna, 22; Dr. polit. sci, Vienna, 25. Res. specialist investment counseling, Reichs-Kredit-Ges, Germany, 29-33; economist for. commerce, off. commercial attache, U.S. Embassy, Berlin & Paris, 34-39; asst. to mgr. for. off, Assoc. Merchandising Corp, N.Y, 39-42; CHIEF GERMANY-AUSTRIA-ITALY SECT, BUR. INT. COMMERCE, U.S. DEPT. COMMERCE, 44- Mem. group experts, off. econ. affairs, U.S. High Cmn, Germany, 50; U.S. del, Gen. Agreement Tariffs & Trade negotiations, Eng, 50-51, Vienna, 55. Econ. Asn. Publ: Co-auth, The Ruhr area—its structure and economic importance, U.S. Dept. Commerce, 49; auth, Balance of payments, purchasing power, and exchange rates, World Econ. Arch, Germany, 27; Foreign capital investments in the United States, German Economist, Berlin, 37. Address: 630 Sheridan St, Hyattsville, Md. 20783.

KORBEL, DR. JOHN J(OSEPH), b. Havana, Cuba, Dec. 13, 18; m. 52; c. 4. ECONOMICS. S.B, Harvard, 39, M.B.A, 41, Ph.D.(econ), 59. Instr. econ, Lafayette Col, 49-50; asst. prof, New Hampshire, 50-57; res. assoc. comput. center, Mass. Inst. Tech, 57-59; asst. prof. econ, Wisconsin, 59-65, asst. dean grad. sch, 65-66; ASSOC. PROF. ECON, NEW HAMPSHIRE, 66- U.S.N, 41-45. Econ. Asn; Economet. Soc. Simulation of economic systems; manpower. Publ: Female labor force mobility and its simulation, Johns Hopkins, 63; A micro-analytic model of the generation of savings in small business, Rev. Econ. & Statist, 8/65; Labor force entry and attachment of young people, J. Am. Statist. Asn, 3/66. Address: Dept. of Economics, University of New Hampshire, Durham, N.H. 03824.

KORBEL, PROF. JOSEF, b. Kysperk, Czech, Sept. 20, 09; m. 35; c. 3. INTERNATIONAL RELATIONS. Sorbonne, Paris, 28-29; Dr. Law, Charles Univ, Prague, 33. Press & cultural attache, Czech. Legation, Belgrade, 37-38; head broadcasting dept, Czech. Govt-in-Exile, 39-45; chef de cabinet, Czech. Ministry For. Affairs, 45; Czech. ambassador, Yugoslavia, 45-48; chmn. & mem, UN Cmn. India & Pakistan, 48-49; PROF. INT. REL, DENVER, 49-, DIR. SOC. SCI. FOUND, 59-, DEAN GRAD SCH. INT. STUDIES, 65- Rockefeller Found. grants, 49-51, 53-54; Guggenheim Found. grant, 57. Mem, Cmt. Atlantic Studies; Coun. For. Rels. Polit. Sci. Asn; Int. Studies Asn. Soviet Union; Eastern Europe. Publ: Danger in Kashmir; Communist subversion of Czechoslovakia. Poland between east and west, Princeton 63. Address: Graduate School of International Studies; University of Denver, Denver, Colo. 80210.

KORBEL, DR. SUSAN F(RANCES), b. Shiner, Tex, Dec. 8, 32; div. EXPERIMENTAL PSYCHOLOGY. B.A, Baylor, 60, Nat. Sci. Found. fel, 62, Ph.D.(exp. psychol), 64. Res. & asst. psychol, Baylor, 60-63; instr. EXP. PSYCHOL, 63-64; ASST. PROF, ARKANSAS, 64- Nat. Sci. Found. grant, 64-67. Res. psychologist, U.S.A.F. contract, 63-64. Psychol. Asn. Behavioral effects of low intensity; low frequency ultra-high frequency radio fields. Publ: Behavioral effects of stimulation by ultra high frequency radio fields, Psychol. Reports, 65; co-auth, Effects of neostigmine on the activity of rats, 67 & auth, Effects of low intensity ultra high frequency radio fields as a function of frequency, 67, Psychonomic Sci. Address: Dept. of Psychology, University of Arkansas, Fayetteville, Ark. 72701.

KORBER, DR. GEORGE W(ILLIAM), b. Billings, Mont, Aug. 4, 13; m. 42; c. 1. SOCIOLOGY. B.A, Col. of Pacific, 48, M.A, 49; Ph.D, Stanford, 53. Asst. prof. SOCIOL, CALIF. STATE COL. LONG BEACH, 52-56, assoc. prof, 56-62, PROF, 62-, CHMN. DEPT, 66- U.S.A, 42-45. Sociol. Asn. Sociological theory; social psychology. Address: Dept. of Sociology, California State College, 6201 E. Anaheim Rd, Long Beach, Calif. 90804.

KORCHIN, DR. BARNEY, Psychol, see 10th ed, Soc. & Behav. Vols.

KORCHIN, PROF. SHELDON J, b. New York, N.Y, Sept. 8, 21; m. 42; c. 3. PSYCHOLOGY. A.B, Brooklyn Col, 42; M.A, Clark, 43; M.A, Harvard, 44, fel, 44-46, Ph.D.(psychol), 46. Asst. N.Y. State Psychiat. Inst, 40-42; asst. psychol, Harvard, 43-44, instr, 46-47; asst. chief clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Phila, Pa, 47-50; dir. psychol. lab, inst. psychosomat. & psychiat. res. & training, Michael Reese Hosp, Chicago, Ill, 50-60; Fulbright prof, Geneoa, Italy, 60-61; chief, sect. on stress, Nat. Inst. Ment. Health, 61-63, vis. scientist, 59-60; PROF. PSYCHOL. & HEAD PSYCHOL, CLIN, CALIFORNIA, BERKELEY, 63- Instr, Princeton, 47-48; lectr, Chicago, 50-60; med. sch, Northwestern, 55-60. Consult, Vet. Admin, Calif. State Dept. Ment. Health, U.S. Army Letterman Gen. Hosp. & Nat. Inst. Ment. Health, 63- Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn. Stress and anxiety; cognitive processes; personality theory; mental health training and research. Publ: Co-auth, Anxiety and stress, McGraw, 55; auth, Experience of perceptual distortion as a source of anxiety, Arch. Neurol. & Psychiat. & Form perception and ego functioning, In: Rorschach psychology. Address: Dept. of Psychology, University of California, Berkeley, Calif. 94720.

KORGEN, DR. REINHARD LUNDE, Math, see 11th ed, Phys. & Biol. Vols.

KORIN, DR. HYMAN, b. New York, N.Y, Nov. 8, 20. PSYCHOLOGY. B.S.S, City Col. New York, 49, M.S, 50; State War scholar, N.Y. Univ, 52-55, Ph.D. (psychol), 56. Intern PSYCHOL, Mt. Sinai Hosp, New York, 52-54; res. asst, Hillside Hosp, Glen Oaks, N.Y, 53-58, res. assoc, 58; res. scientist topectomy unit, Rockland State Hosp, 58-59; assoc. res. scientist, N.Y. Univ, 59-63, res. scientist, sch. eng. & sci, 63-68; RES. PSYCHOLOGIST, MONTEFIORE HOSP. REHAB. MED, 68- U.S.A.A.F, 42-45. AAAS; Psychol. Asn; N.Y. Acad. Sci. Perception; psychophysiological processes; sensorimotor processes. Publ: Role of set in the perception of simultaneous tactile stimuli, Am. J. Psychol; Altered tactile sensitivity in lower extremity stumps, Am. J. Phys. Med, 8/67. Address: 17 Eldorado Dr, Spring Valley, N.Y. 10977.

KORMAN, DR. A. GERD, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KORMAN, DR. ABRAHAM K, b. Montreal, Que, Dec. 16, 33; U.S. citizen; m. 58; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 56; M.A, Illinois, 60; Ph.D. (psychol), Minnesota, 62. ASST. PROF, mgt, Oregon, 63-65; PSYCHOL, N.Y. UNIV, 65- Psychol. Asn. Job performance; and job satisfaction theory. Publ: Self esteem variable in vocational choice, 66, Self-esteem as a moderator of relationship between abilities and vocational choice, 67 & Relevance of personal need satisfaction for overall need satisfaction as a function of self-esteem, 68, J. Appl. Psychol. Address: Dept. of Psychology, Washington Square College of Arts & Sciences, New York University, New York, N.Y. 10003.

KORMAN, PROF. MAURICE, b. Colmar, France, Feb. 19, 31; nat; m. 52; c. 2. PSYCHOLOGY. B.A, Brooklyn Col, 52; Ph.D.(psychol, neuropsychiat), Minnesota, 57. Instr. PSYCHOL, col. med, Iowa, 57-58; asst. prof. to prof, SOUTHWESTERN MED. SCH, TEXAS, 58-66, PROF. & CHMN. DIV, 66- Consult, Vet. Admin, 59-; Terrell State Hosp; juvenile dept, Dallas County. U.S.A, 53-55. Psychol. Asn. Alcohol and alcoholism; brain functioning; implicit personality theories of clinicians. Address: Dept. of Psychiatry, University of Texas Southwestern Medical School, Dallas, Tex. 75235.

KORN, DR. SAM J, b. Brooklyn, N.Y, Aug. 16, 27; m. 51; c. 3. PSYCHOLOGY. B.S, City Col. New York, 49; Ph.D.(psychol), N.Y. Univ, 59. Asst. Psychol, City Col. New York, 50-52; res. psychologist, Payne Whitney Psychiat. Clin, New York Hosp, 54-56; intern psychol. serv, Manhattan Vet. Admin. Hosp, 56-58; psychologist, dept. pediat. psychiat, Jewish Hosp. Brooklyn, 58-60; asst. prof. PSYCHOL, HUNTER COL, 60-66, ASSOC. PROF, 66-, lectr, 57-61. Res. consult, Nat. Inst. Ment. Health Proj, med. center, N.Y. Univ, 60- U.S.A, 52-54. AAAS; Psychol. Asn; Asn. Ment. Deficiency. Developmental psychology; language development and problem solving in children; diagnosis and training in mental retardation; experimental and comparative psychology of learning and development. Publ: Co-auth, Behavioral individuality in early childhood, N.Y. Univ, 63. Address: Dept. of Psychology, Hunter College, New York, N.Y. 10021.

KORNACKER, DR. MILDRED, b. Cleveland, Ohio, July 19, 20; div; c. 1. SOCIOLOGY, SOCIOLOGY OF EDUCATION. B.A, Chicago, 57, M.A, 58, Ph.D.(sociol. of ed), 66; Nat. Univ. Mexico, summer 59. Instr. soc. sci, Chicago Jr. Cols, Wilson Campus, 58-60, Crane Br, 60-61; ASST. PROF. SOCIOL, Illinois, Chicago, 61-67; NORTHERN ILLINOIS, 67- Dept. Health, Ed. & Welfare res. grant, 64-66. Sociol. Asn; Ed. Res. Asn. Urban sociology; intergroup relationships; social problems. Publ: How urban teachers view their job: differential orientations to the teaching role, Res. Br, Dept. Health, Ed. & Welfare, 66. Address: Dept. of Sociology, Northern Illinois University, DeKalb, Ill. 60115.

KORNBERG, DR. ALLAN, b. Winnipeg, Man, Apr. 6, 31; m. 57; c. 4. POLITICAL SCIENCE. B.A, Manitoba, 52; M.A, Michigan, 62, Ph.D.(polit. sci), 64. Teacher, high sch, Man, 54-61; prof. lectr. polit. sci, Michigan & asst. study dir, surv. res. center, 63-64; asst. prof. POLIT. SCI, Hiram Col, 64-65; DUKE, 65-67, ASSOC. PROF, 67- Prin. investr, Nat. Sci. Found. res. grant, 67-; co-investr, res. grant, commonwealth studies center, Duke, 67- Polit. Sci. Asn; Soc. Pub. Admin. American political parties; comparative party systems; comparative legislative behavior; empirical theory and methodology. Publ: Canadian legislative behavior: a study of the 25th Parliament, Holt, 67; co-auth, The political socialization of national legislative elites in the United States & Canada, J. Polit, 11/65; auth, Caucus and cohesion in Canadian parliamentary parties, Am. Polit. Sci. Rev, 3/66. Address: Dept. of Political Science, Duke University, Durham, N.C. 27706.

KORNBLUM, DR. SYLVAN, b. Antwerp, Belgium, Sept. 15, 27; U.S. citizen; m; c. 2. EXPERIMENTAL PSYCHOLOGY. B.A, Washington (St. Louis), 51; M.A, Michigan, 53, M.S, 55, fel, 55-56, Ph.D.(psychol), 60. Instr. romance lang, Washington (St. Louis), 50-51; res. asst. psychol, MICHIGAN, 53-59, ASSOC. RES. PSYCHOLOGIST, MENT. HEALTH RES. INST, 59-, LECTR. PSYCHOL, 65-, asst. to the dir, inst, 62-63, asst. dir, 64-65. U.S. Pub. Health Serv. fel, Appl. Psychol. Res. Unit, Cambridge, Eng, 60-62. Consult. psychologist, 65- U.S.A, 45-47. AAAS; Psychol. Asn; Soc. Eng. Psychol; Human Factors Soc; Psychonomics Soc. Temporal characteristics of choice behavior and the sequential properties of performance. Publ: Repetitions, non-repetitious and uncertainty in choice reaction time, In: The organization of human information processing, Akademie-Verlag, Berlin, 67; Choice reaction time for repetitions and nonrepetitions: a re-examination of the information hypothesis, Acta Psychologica, 67; Serial choice reaction time: the inadequacies of the information hypothesis, Science, 68. Address: Mental Health Research Institute, University of Michigan, Ann Arbor, Mich. 48104.

KORNER, DR. ANNELIESE F, b. Munich, Germany, Nov. 27, 18; nat; m. 52. PSYCHOLOGY. Dipl, Geneva, 38; M.A, Columbia, 40, Ph.D, 48. Res. assoc, Soc. Sci. Res. Coun, 41-43; instr. psychiat, Chicago, 43-48; chief psychologist, MT. ZION PSYCHIAT. CLIN, 48-61, SR. PSYCHOLOGIST, 62-; RES. ASSOC, DEPT. PSYCHIAT, SCH. MED, STANFORD, 64- Prin. investr, Nat. Insts. Health grant, 64- Consult, San Mateo Ment. Health Serv, 60-61, 62- Fel. Psychol. Asn; fel. Soc. Proj. Tech; Orthopsychiat. Asn. Child development; projective techniques; ego psychology. Publ: Mother-child interaction: one or two way street?, Soc. Work, 65; co-auth, Visual alertness as related to soothing in neonates: implications for maternal stimulation and early deprivation, Child Develop, 66; auth, Individual differences at birth: implications for mother-infant relationship and later development, J. Am. Acad. Child Psychiat, 10/67. Address: 2299 Tasso, Palo Alto, Calif. 94301.

KORNER, DR. IJA N, b. Vienna, Austria, June 19, 16; nat; m. 47; c. 1. PSYCHIATRY. Ph.D, Columbia, 48. Asst, Columbia, 42-43; asst. prof. psychol, State Col. Wash, 48-49; assoc. prof. psychiat, sch. med, Utah, 49-66, resi-

dent prof, 66-67; dir. res, Center Training Community Psychiat, 67-68; PROF. PSYCHOL, WISCONSIN, GREEN BAY, 68- Res. fel, Nat. Inst. Ment. Health, 54-55; Fulbright prof, Allahabad, 65-66. U.S.A, 43-46, 1st Lt. Fel. Psychol. Asn; N.Y. Acad. Sci. Personality theory; psychology of thinking; theory, research methods and techniques of community psychology. Address: Dept. of Psychology, University of Wisconsin, Green Bay, Wis. 54302.

KORNETSKY, PROF. CONAN, Psychol, see 11th ed, Phys. & Biol. Vols.

KORNHAUSER, PROF. ARTHUR, b. Steubenville, Ohio, Nov. 23, 96; m. 23, 45; c. 2. PSYCHOLOGY. B.S, Pittsburgh, 17; M.A, Carnegie Inst. Tech, 19; Ph.D.(psychol), Chicago, 26. Res. psychologist, Scott Co, Pa, 19-20; from instr. to assoc. prof. psychol, Chicago, 21-43; res. assoc. & consult, bur. appl. soc. res, Columbia, 43-48, lectr. soc. res, 46-47; prof. PSYCHOL, WAYNE STATE, 48-62, Franklin mem. lectr, 54-55, EMER. PROF, 62- Soc. Sci. Res. Coun. fel, Europe, 28-29; managing dir, Chicago Off, Psychol. Corp, 36-43. Consult, U.S. War Dept, 45. Med.Serv.C, 18-19, 2nd Lt. Fel. Psychol. Asn; Indust. Rels. Res. Asn.(v.pres, 48). Occupational psychology; attitudes, motivations and mental health of working people; labor-management relations; psychology of social classes. Publ: Co-ed, Industrial conflict; co-auth, When labor votes; auth, Mental health of the industrial worker: a Detroit study, Wiley, 65. Address: 405 Serrano Dr, San Francisco, Calif. 94132.

KORNHAUSER, PROF. DAVID H(ENRY), b. Philadelphia, Pa, Mar. 17, 18; m. 65. GEOGRAPHY. B.A, Bucknell, 41; M.A, Michigan, 51, Center Japanese Studies fel, 53-54, Ph.D.(geog), 56. Asst. prof. geog, Pa. State, 55-56; assoc. prof, State Univ. N.Y. Col. New Paltz, 56-63; PROF. Asian studies, HAWAII, 63-67. GEOG, 67- Fulbright res. scholar, Japan, 59-60. Asn. Am. Geog; Am. Geog. Soc; Asn. Japanese Geog; Asn. Asian Studies. Urban geography and settlement studies; human and physical geography, especially of East Asia; transportation and population analysis; Asian studies. Publ: Changes in the structure of industrial employment in urban Japan, 1950-1960; Industrial diversification in urban Japan, 1930-1960; A factor analysis of Japanese urban growth, 1950-1960. Address: 5089 Maunalani Circle, Honolulu, Hawaii 96816.

KORNHAUSER, PROF. WILLIAM, b. Chicago, Ill, Feb. 5, 25; m. 49. SOCIOLOGY. Livingston fel, Chicago, 49-50, Soc. Sci. Res. Coun. fel, 51-52, Ph.D. (sociol), 53. Instr. SOCIOL, Columbia, 52-53; CALIFORNIA, BERKELEY, 53-54, asst. prof, 54-61, assoc. prof, 61-64, PROF, 64- Ford fel, Center Adv. Study Behav. Sci, 54-55; vis. res. assoc, center int. studies, Princeton, 61-62; lectr, Salzburg Seminar Am. Studies, Austria, 57; For. Serv. Inst, D.C, 66; U.S. Civil Serv. Cmn, 66-67; Off. Econ. Opportunity grant, 67-68; fel, Adlai Stevenson Inst, 68-69. Consult, U.S. Dept. Defense, 58-59; Smithsonian Inst, 59-62; Stanford Res. Inst, 61. U.S.A.A.F, 43-46, 1st Lt. Sociol. Asn. Political sociology; revolution and social development; social movements; alienation and participation; comparative sociology. Publ: Politics of mass society; Scientists in industry: conflict and accommodation; Mass society, Int. Encyclop. Soc. Sci, 68. Address: Dept. of Sociology, University of California, Berkeley, Calif. 94720.

KORNRICH, DR. MILTON, b. Brooklyn, N.Y, Aug. 14, 33; m. 55. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 55, M.S, 56; Ph.D, Adelphi Col, 60. U.S. Pub. Health Serv. asst, Adelphi Col, 57-58; clin. psychol.intern, Northport, Brooklyn & Manhattan Vet. Admin. Hosps, N.Y, 58-61; psychologist, Massapequa Sch. Syst, 61-64; supv. clin. psychologist, N.Shore Child Guid. Center, 64-66; PSYCHOLOGIST, LONG BEACH SCH. SYST, 66- Res. asst, Adelphi Col, 58-59; clin. psychologist, Brooklyn Community Counseling Center, 61-62; psychotherapist, Bleuler Center Psychother, 61-63, 66-; fel, Post-Grad. Center Ment. Health, 63-66. Consult, Queens Col. Early Childhood Center, 65-67; Head Start Prog, 66; Student Achievement Inst, 67- Psychol. Asn; Soc. Proj. Tech; Acad. Psychother; Asn. Appl. Psychoanal. School psychology. Publ: Ed. & compiler: Underachievement, 65 & Psychological test modifications, 65, C.C. Thomas. Address: 139-15 83rd Ave, Kew Gardens, N.Y. 11435.

KOROBOW, DR. ALICE SCHUSTER, b. New York, N.Y, Feb. 29, 20; m. 40; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 45, M.A, 52; Ph.D, N.Y. Univ, 57. Supvry. clin. psychologist, New Hope Guild Guid. Center, 57-64. Instr, Brooklyn Col, 55-59. Psychol. Asn. Clinical psychology and psychotherapy. Address: 50 Kenilworth Place, Brooklyn, N.Y. 11210.

KOROBOW, DR. N(ORMAN), b. U.S, Apr. 2, 15; m. 40; c. 1. PSYCHOLOGY. B.A, Brooklyn Col, 43, M.A, 46; Ph.D.(psychol), N.Y. Univ, 53. Tech. assoc, Richardson, Bellows & Henry, 51; res. assoc. prof. & prog. dir, N.Y. Univ, 53-54; psychologist, Surface Transportation Corp, 55-57; res. psychologist, Vet. Admin. Hosp, 57-59; mgr. HUMAN FACTORS, Curtiss Wright Corp, 59-64; sect. head, Sperry Rand Corp, 64-66; SR. STAFF, CONTROL DATA CORP, 66- Instr, Brooklyn Col, 46- Psychol. Asn. Stress; instrumentation in human engineering; human factors; training. Publ: How to get more out of training aids; Utilization study of training devices; Automatic monitoring and scoring. Address: 1655 Flatbush Ave, Brooklyn, N.Y. 11210.

KORONAKOS, DR. CHRIS, Psychol, see 11th ed, Phys. & Biol. Vols.

KOROTKIN, DR. ARTHUR L(EWIS), b. Philadelphia, Pa, July 19, 33; m. 53; c. 4. EXPERIMENTAL PSYCHOLOGY. B.A, Temple, 54, M.A, 56, Ph.D, 60. Instr. psychol, Temple, 56-57; exp. & physiol, psychologist, aviation med. acceleration lab, U.S. Naval Air Develop. Center, 57-58; staff psychologist, Mayview State Hosp, Pa, 58-59, head dept. psychol, 59; human factors engr, air arm div, Westinghouse Elec. Corp, Md, 59-60; mil. syst. div, Burroughs Corp, 60-63; consult. analyst, info. systs. oper, Gen. Elec. Co, 63-65; assoc. prog. dir. res. & studies, off. sci. info. serv, Nat. Sci. Found, 65-66, prog. dir. domestic sci. info, 66-67, dep. head data mgt. systs, 67-68; ASST. PROG. DIR. SKILLS RES. PROG, AM. INSTS. RES, 68- Instr, Richmond Center, Virginia, 64- Psychol. Asn. Engineering psychology; perception; information science. Publ: Changes in SD and S^{Δ} rates during the development of an operant discrimination, J. Comp. & Physiol. Psychol; co-auth, Body weight and food intake measures during instrumental learning; co-auth, Indexing aids, procedures and devices, Rome Aid Develop. Center, 4/65. Address: 5417 Marlin St, Rockville, Md. 20853.

KORP, RALPH V(ICTOR), b. Helsinki, Finland, Oct. 13, 26; nat; m. 57; c. 1. ECONOMICS. Ph.B, Chicago, 47, M.A, 50. Res. asst, for. res. div, Fed. Reserve Bank of N.Y, 50-51; economist & asst. U.S. Treas. Attache, U.S. Embassy, Manila, 51-53, Rome, 53-57; economist, U.S. Treas. Dept, 57-61, dep. dir. off. indust. nations, 65-66; financial attache, U.S. EMBASSY, Rio de Janeiro, 61-65, U.S. TREAS. ATTACHE, ROME, 66- Dep. chief, finance div, Mutual Security Agency-Int. Co-op. Admin. Mission, Italy, 53-57. Adv. to U.S. dels. to econ. conf, Orgn. Am. States, Buenos Aires, 57; spec. cmt. negotiating & drafting agreement estab. Inter-Am. Develop. Bank, D.C, 59, bd. governors, San Salvador, 60, Rio de Janeiro, 61; Cmt. of 21, Buenos Aires, 59, Bogota, 60; UN Econ. Cmn. Latin Am, Panama, 59, Santiago, 61; Inter Am. Econ. & Soc. Coun, Uruguay, 61. U.S.A, 45-46. Econ. Asn. International finance and foreign exchange; monetary policy; central government finance and fiscal policy; economy of Latin America, Italy and Europe. Address: American Embassy, APO New York 09794.

KORSOK, DR. ALBERT J(OSEPH), b. Cleveland, Ohio, Oct. 27, 22. GEOGRAPHY. B.S, Western Reserve, 49; M.A, Northwestern, 50; Ph.D.(geog), Illinois, 60. Asst. prof. GEOG, Utah State, 50-52; from instr. to asst. prof, Ohio, 57-65, ASSOC. PROF, 66-67; AKRON, 68- U.S.A, 43-46. AAAS; Asn. Am. Geog; Am. Geog. Soc; Nat. Coun. Geog. Ed. Physical, economic and urban geography, especially of Europe. Address: Dept. of Geography & Geology, University of Akron, Akron, Ohio 44304.

KORSON, PROF. J(AY) HENRY, b. Philadelphia, Pa, Jan. 9, 10; m. 39; c. 1. SOCIOLOGY. B.S, Villanova Col, 31; A.M, Yale, 42, Ph.D, 47. Instr, N.Y. Univ, 41-42; Bowdoin Col, 42-44; asst. prof. SOCIOL, MASSACHUSETTS, 44-48, PROF, 48-, head dept, 50-66. Vis. prof, Mt. Holyoke Col, 50-51, 61; Kwansei Gakuin Univ, Japan, 57; Asia Found. fel, 57; Fulbright-Hays lectr, Karachi, 64-65. Fel. AAAS; fel. Sociol. Asn. Industrial sociology; family. Publ: Age and social status at marriage: Karachi, 1961-64, Pakistan Develop. Rev, 12/65; Dower and social class in an urban Muslim community, J. Marriage & Family, 8/67. Address: Dept. of Sociology, University of Massachusetts, Amherst, Mass. 01002.

KORSVIK, WILLIAM J(AMES), b. Chicago, Ill, Sept. 9, 17; m. 49; c. 4. ECONOMICS, FINANCE. B.S, Northwestern, 49; M.B.A, Chicago, 55; dipl, Wisconsin, 59. Asst. cashier, FIRST NAT. BANK OF CHICAGO, 51-56, asst. v.pres, 57-61, V.PRES, 62-, RESEARCHER IN CHARGE BUS. & ECON. RES. DEPT, 59- Admin. asst, grad. sch. banking, Wisconsin, 53-; asst. secy, fed. adv. coun, Fed. Res. Syst, 55-; lectr, DePaul, 57; Northwestern, 58-59. Ed, Bus. & Econ. Rev. & Int. Econ. Rev, 59- U.S.A, 42-45, Sgt. AAAS; Econ. Asn; Finance Asn; Asn. Bus. Econ; Statist. Asn. Business cycles; monetary and fiscal policy. Address: First National Bank of Chicago, Chicago, Ill. 60690.

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KORTEPETER, DR. CARL MAX, Hist, Near East. Lang, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KORZAN, PROF. GERALD EARL, b. Kimball, S.Dak, Aug. 21, 13; m. 40; c. 1. AGRICULTURAL ECONOMICS. B.S, S.Dak. State, 40; M.A, Minnesota, 48, Ph.D.(agr. econ), 50. Asst. prof. AGR. ECON, Montana State, 48-49; PROF, OREGON STATE, 49- Agr. econ. adv, Kasetsart Univ, Thailand, 54-56; Ford Found. agr. econ. proj. adv, Syria, Jordan & Lebanon, 65-67. U.S.A, 41-46, Lt. Col. Agr. Econ. Asn. Agricultural price analysis and marketing. Address: Dept. of Agricultural Economics, Oregon State University, Corvallis, Ore. 97331.

KOSA, DR. JOHN, b. Hungary, Aug. 29, 14; nat; m. 56; c. 3. SOCIOLOGY. Ph.D.(philos), Budapest, 37. Lectr. soc. hist, Budapest, 41-47; asst. prof. sociol, Szeged, 47-49; lectr, Sir Geo. Williams Col, 52-54; from asst. prof. to assoc. prof, Le Moyne Col, 55-59; res. assoc, Cornell, 59-61; assoc. prof. biostatist, sch. pub. health, North Carolina, 61-64; LECTR. SOCIOL. & DIR. MED. CARE RES. UNIT, HARVARD MED. SCH, 64- Sociol. Asn; Psychol. Asn; Pub. Health Asn. Medical sociology; sociology of religion; social psychology. Publ: Two generations of Soviet man, Univ. North Carolina, 62; The home of the learned man, Col. & Univ, 67. Address: Medical Care Research Unit, Harvard Medical School, 83 Francis St, Boston, Mass. 02115.

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KOSH, DAVID A(LPERIN), b. Poland, Oct. 12, 12; nat; m. 38; c. 2. ECONOMICS, GOVERNMENT. B.S, Columbia, 33, C.E, 34; M.B.A, N.Y. Univ, 41. Engr, Tenn. Valley Authority, 34-38; res. assoc, pub. utilities, N.Y. Univ, 38-42; economist, Off. Price Admin, 42-44; Gen. Serv. Admin, 44-51, asst. to adminstr, 51-52; PRES, KOSH-GLASSMAN ASSOC. INC, 52- Tutor, New Sch. Soc. Res, 40-42. Consult, West. Union Tel. Co, 53-; Govt, 56- Econ. Asn; fel. Soc. Civil Eng. Business; operation, financing and regulation of public utility companies, especially determination of overall revenue requirement and design of rate structures; criteria, meth-

ods and procedures of regulating competing trucking operations. Publ: Uncertainty and the provision for depreciation, J. Bus; Tangible assets of public utilities, In: Conference on research in income and wealth; Valuation of a going concern, Practical Lawyer, 66. Address: 3606 N. Woodstock St, Arlington, Va. 22207.

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KOSIK, PROF. FRANK P(AUL), Polit. Sci, see 10th ed, Soc. & Behav. Vols.

KOSINAR, DR. WILLIAM CHARLES, b. Czech, Nov. 4, 11; nat; m. 38; c. 2. PSYCHOLOGY. B.S, Kans. State Col, 36; M.A, Chicago, 51; Ph.D, Ill. Inst. Tech, 54. Instr. psychol, Ohio Wesleyan, 48-49; Ill. Inst. Tech, 51-54, asst. psychol. res, 53-54; instr, CHICAGO CITY COL, WILSON CAMPUS, 55-63, ASSOC. PROF. PSYCHOL. & CHMN. DEPT. SOC. SCI, 63- U.S.A, 41-46, Res, 46-, Lt. Col. AAAS; Psychol. Asn. Industrial psychology; personality development and evaluation; aptitude and achievement testing; social and group interaction. Address: 2400 Cowper Ave, Evanston, Ill. 60201.

KOSLIN, DR. BERTRAM L(EONARD), b. New York, N.Y, June 25, 30; m. 64. PSYCHOLOGY. A.B, Hopkins, 50; Ph.D.(psychol), Oklahoma, 63. Instr. psychol, Fairleigh Dickinson, 60-61; asst. prof, Bard Col, 61-64; Princeton, 64-68; HEAD SOC. SCI. RES. LAB, RIVERSIDE RES. INST, 68- Exp. assessment prog. grant, 64-66; Nat. Insts. Health res. grants, 66- Consult, Inst. Ed. Develop, 67- Panel mem, Nat. Sci. Found, 66-67. Psychol. Asn. Attitude formation and change; group interaction and collective behavior. Publ: Sr. co-auth, Effects of learning on judgement in the presence of discrepant anchors, Psychonomic Sci, 67; auth, Laboratory experiments and attitude theory, In: Attitude, ego-involvement and change, Wiley, 67; sr. co-auth, Source characteristics and communication discrepancy as determinants of attitude change and conformity, J. Exp. Soc. Psychol, 7/67. Address: Riverside Research Institute, 632 W. 125th St, New York, N.Y. 10027.

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KOSSORIS, PROF. M(AX) D(AVIS), b. Russia, Jan. 4, 02. ECONOMICS. A.B, Wisconsin, 24, A.M, 26, J.D, 33, Ph.D, 34. Indust. engr, 24-25, 26-27; statistician, State Dept. Labor, Ill, 27-29, economist & statistician, 30-31; economist & asst. dep. administr, Nat. Recovery Admin, 33-36; from statistician to chief div. accident statist, bur. labor statist, U.S. Dept. Labor, 36-48, regional dir. west. region, 48-67; PROF. LABOR ECON, SAN FRANCISCO, 67- Meritorious award, U.S. Dept. Labor, 55, distinguished serv. award, 62. Econ. Asn. Workmen's compensation. Publ: Hours of work and output; Performance of physically impaired workers in manufacturing industries; Working rules in West Coast longshoring. Address: College of Business Administration, University of San Francisco, San Francisco, Calif. 94117.

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KOSTICH, PROF. DRAGOS D, East European & Russian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KOSTICK, PROF. MAX MARTIN, b. Boston, Mass, June 22, 13; m. 41; c. 2. PSYCHOLOGY. A.B, New Hampshire, 36; M.A.T, Harvard, 40, Ed.D.(measurements in ed), 52. Instr. math. & physics, grad. sch. eng, Harvard, 43-45; dir, Brookline Acad, Inc, 46-50; asst. prof. sci, Mass. State Teachers Col, Worcester, 50; acting head psychol. dept, Mass. State Teachers Col, Fitchburg, 50-53; asst. prof. psychol, MASS. STATE COL. BOSTON, 53-56, prof. & chmn. dept, 56-66, DIR. INSTNL. RES, 66- Consult, dept. pub. health, State of Wis, 67. Psychol. Asn; Inter-Am. Soc. Psychol. Kostick's perception and preference inventory; Kostick's adaptability test; rating on group effectiveness; reactions to problem situations. Publ: Experiment in group decision, J. Teacher Ed; Schools of psychology: a play, Appl. Psychol. Asn, 59, revised, 67; Manual for translating job behavior into PAPI language, Appl. Psychol. Asn, 67. Address: Dept. of Psychology, State College at Boston, 625 Huntington Ave, Boston, Mass. 02115.

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KOTESKEY, DR. RONALD L, b. Petoskey, Mich, Mar. 15, 42; m. 64; c. 1. EXPERIMENTAL PSYCHOLOGY. A.B, Asbury Col, 63; NASA trainee, Wayne State, 65-67, M.A, 66, Ph.D, 67. ASST. PROF. PSYCHOL, GREENVILLE COL, 67- AAAS; Psychol. Asn. Learning; cognitive processes; comparative psychology. Address: Dept. of Psychology, Greenville College, Greenville, Ill. 62246.

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KOUSOULAS, PROF. D(IMITRIOS) GEORGE, b. Khalkis-Euboeas, Greece, Dec. 22, 23; U.S. citizen; m. 52; c. 1. POLITICAL SCIENCE. LL.B, Nat. Univ. Athens, 48; M.A, Syracuse, 53, Ph.D.(int. rels), 56. Asst. prof. GOVT, HOWARD, 61-63, assoc. prof, 64-66, PROF. & CHMN. DEPT, 67- Prof. lectr. Soviet affairs, Nat. War Col, 61-; pres. res. & travel grant, Howard, summer 63, univ. res. grant, summer 67; sr. fel, Inst. Sino-Soviet Studies, George Washington, 66- Knight of Golden Cross of Royal Order of Phoenix, Greece, 66. Greek Army, 48-50. Acad. Polit. & Soc. Sci; Acad. Polit. Sci; Polit. Sci. Asn. Greek political affairs; Eastern European and Balkan politics; government as a social institution examined through comparative analysis. Publ: The price of freedom: Greece in world affairs, 1939-1953, Syracuse, 53; Revolution and defeat: the story of the Greek Communist party, Oxford, 65; On government: a comparative introduction, Wadsworth, 68. Address: Dept. of Government, Howard University, Washington, D.C. 20001.

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KOVARSKY, PROF. IRVING, b. Chicago, Ill, Aug. 27, 18; m. 43; c. 2. INDUSTRIAL RELATIONS. LL.B, Chicago-Kent Col. Law, 42; M.A, Loyola (Ill), 53; Ph.D.(indust. rels), Iowa, 56; fel, Yale, 59-60, LL.M, 60. Instr. law, Iowa, 53-55; asst. prof. INDUST. RELS. & LAW, Oregon, 55-57; assoc. prof, Southern Illinois, 57-63, PROF, 64; IOWA, 64- Ford Found. res. grant, Chicago, 62. Econ. Asn. Legal environment; labor legislation; civil rights; antitrust regulation. Publ: A social and legal analysis of the secondary boycott, Ore. Law Rev, 56; State piggyback statutes and federalism, Indust. & Labor Rels. Rev, 64; Apprentice training programs and racial discrimination, Iowa Law Rev, 65. Address: University of Iowa College of Business Administration, Iowa City, Iowa 52240.

KOVERMAN, HOWARD C(HARLES), JR, Geog, see 10th ed, Soc. & Behav. Vols.

KOVNAR, DR. MURRAY R(OY), b. Kiev, Russia, Aug. 29, 12; nat; m. 45; c. 2. PSYCHOLOGY. B.S, Long Island, 42; M.A, Denver, 48, Ph.D.(psychol), 53; LL.B, Westminster Law Sch, 50. Tech. adv. & psychologist, U.S. Dept. Air Force, 49-55; chief psychologist, State Dept. Correction, Mich, 55-56; assoc. prof. psychol, North Dakota, 56-61; PROF. CLIN. PSYCHOL, TEX. TECH. COL, 61- Lectr, Washington (St. Louis), 55; prin. investr, Nat. Inst. Ment. Health res. grant, 67- Asst. dir, Psychiat. Clin, Jackson, Mich, 55-56; dir. psychol. dept, State Hosp, Jamestown, N.Dak, 56-61; clin. psychologist, South Plains Psychiat. Clin, 63- Private practice, 59- U.S.M.C, 43-46, 50-51, Res, 46-50. Fel. AAAS; Psychol. Asn; Group Psychother. Asn. Personnel selection and motivation; personnel evaluation instruments; prediction studies of job success. Address: 1610 Great Plains Life Bldg, Lubbock, Tex. 79401.

KOWITZ, PROF. GERALD T(HOMAS), b. Port Huron, Mich, Mar. 30, 28; m. 52; c. 3. PSYCHOLOGY, EDUCATION. B.A, Mich. State, 48, M.A, 50, Ph.D.(ed, psychol, sociol), 54. Teacher, pub. sch, Mich, 53-54; sch. psychologist, Greenfield Village Schs, 54-55; assoc. prof. & dir. alternate prog. elem. ed, grad. center, Arkansas, 55-57; assoc. psychomet. res, state ed. dept, State Univ. N.Y, 57-59, coordinator exp. progs, 60-63; dir. bur. ed. res, Univ. Houston, 63-66; PROF. ED. PSYCHOL. & GUID, OKLAHOMA, 66- Res. grants, Hogg Found, 64-65 & 66-67; U.S. Off. Ed, 65-66. Consult, Dept. Ed, N.S, 59. Mem. bd. dir, Tex. Gulf Coast Sci. Ed. Resources Center, 65-67. U.S.N, 45-47; U.S.A, 50-51. Psychol. Asn; Soc. Res. Child Develop; Personnel & Guid. Asn. Human development, especially the relationships among cognitive acquisitions; development of concepts and behavior. Publ: Guidance in elementary classroom; co-auth, Operating guidance services in modern school, Holt, 68. Address: College of Education, University of Oklahoma, Norman, Okla. 73069.

KOWITZ, PROF. WILLIAM T, Geog, see 10th ed, Soc. & Behav. Vols.

KOZAK, PROF. ANDREW V, Math, see 11th ed, Phys. & Biol. Vols.

KOZAKIS, JOHN THOMAS, Phys. Geog, see 10th ed, Soc. & Behav. Vols.

KOZELKA, PROF. RICHARD L(OUIS), b. Chicago, Ill, Aug. 19, 99; m. 23; c. 2. BUSINESS STATISTICS. A.B, Beloit Col, 21, LL.D, 50; A.M, Chicago, 26; Ph.D, Minnesota, 31. Instr. econ, MINNESOTA, MINNEAPOLIS, 23-31, asst. prof, 31-37, assoc. prof, 37-44, prof. econ, 44-67, dean sch. bus. admin, 44-60, EMER. PROF. BUS. ADMIN, 67-; PROF. BUS. ADMIN. & DIR. GRAD. STUDIES, COL. BUS. ADMIN, SOUTH FLORIDA, 67- Soc. Sci. Res. Coun. for. traveling fel, 34-35; dir. res, Econ. Serv. of Rural Center, 36; indust. trends, State Resources Cmn, Minn, 39. Consult, Nicaragua, 60; Jordan, 65. U.S.A, 18, Lt. Am. Statist. Asn; Am. Econ. Asn; Soc. Adv. Mgt; Royal Econ. Soc. Index numbers; industrial trends in Minnesota; representative price; business fluctuations in the Northwest. Address: College of Business Administration, University of South Florida, Tampa, Fla. 33620.

KOZELKA, PROF. R(OBERT) M, b. Minneapolis, Minn, July 20, 26; m. 50; c. 4. STATISTICS. B.A, Minnesota, 47, M.A, 48; Ph.D.(math), Harvard, 53. Asst. MATH, Minnesota, 47-48; instr, Tufts, 49-52, asst. prof, 52-53; Nebraska, 53-57; WILLIAMS COL, 57-60, from assoc. prof. to PROF, 60- U.S.A.A.F, 45. Statist. Asn; Inst. Math. Statist. Theory and application of statistics in behavioral sciences. Address: Dept. of Mathematics, Williams College, Williamstown, Mass. 01267.

KOZIARA, DR. KAREN S, b. Philadelphia, Pa, Oct. 16, 40; m. 64. ECONOMICS. B.A, Pa. State, 61; Woodrow Wilson fel, Wisconsin, 61-62, M.A, 63, Ph.D.(econ), 65. ASST. PROF. econ, San Jose State Col, 65-66; BUS. ADMIN, TEMPLE, 66- Publ: Development of relocation allowances as manpower policy, In: Industrial and labor relations review, 10/66; The agricultural minimum wage: a preliminary look, Monthly Labor Rev, 9/67; The Negro in the hotel industry, Indust. Rels. Div, Wharton Sch, Univ. Pennsylvania. Address: School of Business Administration, Temple University, Philadelphia, Pa. 19122.

KOZICKI, PROF. RICHARD J(OSEPH), b. Chester, Pa, Apr. 5, 29; m. 51; c. 2. POLITICAL SCIENCE, INTERNATIONAL RELATIONS. B.A, Allegheny Col, 51; Cowles fel, Yale, 51-53, M.A, 53; univ. fel, Pennsylvania, 54-56, Ford Found. fel, 56-59, Ph.D, 59. Instr. polit. sci. & hist, Drexel Inst, 56; asst. prof. polit. sci, Mansfield State Col, 59-60, assoc. prof, 61-62; asst. prof, Marquette, 62-63; Asian bibliographer & mem. Asian study cmn, Univ. Illinois, 63-64; S.Asia area specialist, East-West Center, Univ. Hawaii, 64-68; ASST. RES. POLIT. SCIENTIST, CENTER S.ASIA STUDIES, INST. INT. STUDIES, CALIFORNIA, BERKELEY, 68- Am. Coun. Learned Socs-Social Sci. Res. Coun. res. grant Asia, 67-68; vis. assoc. prof, Bucknell, summer, 61. U.S.A, 45-47. Acad. Polit. & Soc. Sci; Asn. Asian Studies; Int. Studies Asn. Political science, especially international relations and comparative governments of south and southeast Asia. Publ: Sino-Burmese frontier problem, Far East. Surv; India and Israel, Mid. East. Affairs; Indian policy toward the Middle East, Orbis, fall 67. Address: Center for South Asia Studies, Institute of International Studies, University of California, Berkeley, Berkeley, Calif. 94720.

KOZIEBRODZKI, PROF. LEOPOLD B(OLESTA), b. Podhajczyki, Poland, Dec. 10, 06; nat; m. 55. POLITICAL SCIENCE, ECONOMICS. M.Law & Pol. Sci, Warsaw, Poland, 28; dipl, Paris, 51, 52, D.Law, 56; Texas, 58-59. Mem. Polish Ministry For. Affairs, 28-39, 43-45; UN, Paris, 48, 51-52; asst, Nat. Bur. Econ. Res, N.Y, 57; asst. prof. econ, St. Edward's Univ, 57-59; vis. lectr, North Carolina, 59-60, acting assoc. prof. econ. & hist, 60-63; MEM. SR. RES. STAFF, RES. ANAL. CORP, 63- With Polish Army, 39-47, Maj. Polit. Sci. Asn; Econ. Asn; Finance Asn; Am. Soc. Int. Law. International law, relations and monetary problems; Soviet foreign policy; comparative public finance, economic development. Publ: Right of asylum; co-auth, Polish civil law, Univ. Leyden, Netherlands, 68. Address: 1500 Oakview Dr, McLean, Va. 22101.

KOZIK, DR. EUGENE, Econ, Bus. Mgt, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KOZMA, DR. ALBERT, b. Magyarpolany, Hungary, Oct. 30, 36; Can. citizen; m. 62; c. 2. Hon. B.A, Western Ontario, 62, M.A, 64, Ph.D.(psychol), 66. Psychologist, dept. health, Ont. Hosp, St. Thomas, 63-64, acting chief psychologist, 66-67; ASST. PROF. CHILD PSYCHOL, MEMORIAL UNIV, 67- Consult, Newf. Dept. Health, 67- Social reinforcer effectiveness in children; behavior modification in neurotics; electroshock-therapy effects on memory. Publ: Deconditioning a phobia, Atlantic Psychologist, (in press). Address: Dept. of Psychology, Memorial University of Newfoundland, St. John's, Newf, Can.

KOZMETSKY, DR. GEORGE, b. Seattle, Wash, Oct. 5, 17; m. 43; c. 3. BUSINESS ADMINISTRATION. M.B.A, Harvard, 47, D.C.S, 57. Asst. personnel dir, Seattle-Tacoma Ship Bldg. Corp, 40-41; mem. res. staff, Nat. Asn. Cost Accts, 45-46; instr. & res. asst, Harvard Bus. Sch, 49-50; asst. prof, Carnegie Inst. Tech, 50-52; asst. controller, Hughes Aircraft Co, 52-54; mgr. computers & controls div, Litton Industs, 54-60, exec. v.pres, Teledyne, Inc, 60-66; DEAN COL. BUS. ADMIN, TEXAS, 66-; EXEC. ASSOC. ECON. AFFAIRS, UNIV. TEXAS SYST, 66- Dir. & consult, Teledyne, Inc, 66-; dir, Am. DualVest Fund, Inc, 67-; Scionics Corp, 67- Consult, cmt. man-machine systs, U.S. Air Force Sci. Adv. Bd, 60. Mem, Presidential Adv. Cmt. Nat. Data Center, 60. U.S.A, 42-45. Statist. Asn; Inst. Mgt. Sci. (past pres); Acct. Asn. Accounting; statistical research; organizational theory. Publ: Financial reports of labor unions; Centralization versus decentralization; Electronic computers and management controls. Address: Dean's Office, BEB 200, College of Business Administration, University of Texas, Austin, Tex. 78712.

KRACAUER, DR. SIEGFRIED, Sociol, see 10th ed, Soc. & Behav. Vols.

KRADER, PROF. LAWRENCE, b. New York, N.Y, Dec. 8, 19; m. 53. ANTHROPOLOGY. Fel. & Ph.D.(anthrop), Harvard, 54. Res. assoc, Washington (Seattle), 47-50; lectr. & res. assoc. ANTHROP, American Univ, 53-59, PROF, 59-64; Syracuse, 64-67; CITY UNIV. NEW YORK, 67- Lectr, Michigan, 55, Columbia, 56. Secy. gen, Int. Union Anthrop. & Ethnol. Sci, 64-; mem, Int. Soc. Sci. Coun, 65-; Int. Coun. Philos. & Humanistic Studies, 65-; cmt. int. rels. behav. sci, Nat. Acad. Sci-Nat. Res. Coun, 67- AAAS; fel. Anthrop. Asn. Social anthropology. Publ: Peoples of Central Asia, Indiana Univ, 2nd ed, 67; Anthropology and early law, Basic Books, 67; Formation of the state, Prentice-Hall, 68. Address: Dept. of Sociology & Anthropology, City University of New York, W. 133rd St, New York, N.Y. 10031.

KRAEMER, DR. ALFRED J, b. Vienna, Austria, Mar. 13, 23; U.S. citizen; m. 50; c. 2. PSYCHOLOGY. A.B, Washington (St. Louis), 51; Ph.D.(psychol), Vanderbilt, 57. Res. assoc. psychol, HUMRRO, GEORGE WASHINGTON, 56-58, res. scientist, 58-60, sr. scientist, 60-61, SR. STAFF SCIENTIST, 61- Assoc. prof. lectr, George Washington, 66- U.S.A, 43-46. Psychol. Asn; Acad. Polit. & Soc. Sci; Soc. Int. Develop. Application of learning psychology and social psychology in the identification and solution of problems in education and training; visual and auditory perception. Publ: Flash localization and reticle design, 10/62, Operator proficiency in interpreting ground surveillance radar signals, 6/64 & Cross-cultural problems of U.S. Army personnel in Laos and their implications for area training, 9/64, HumRRO Res. Reports. Address: 8418 Masters Court, Alexandria, Va. 22308.

KRAEMER, PROF. CHARLES L(OUIS), Econ, Acct, see 10th ed, Soc. & Behav. Vols.

KRAENZEL. PROF. CARL F(REDERICK), b. Hebron, N.Dak, Nov. 1, 06; m. 30; c. 4. RURAL SOCIOLOGY. A.B, North Dakota, 30; fel, Minnesota, 30-32, A.M, 32; Soc. Sci. Res. Coun. fel, Harvard, 32-33; fel, Wisconsin, 33-34, Ph.D, 35. Asst. prof. RURAL SOCIOL, MONTANA STATE, 35-38, assoc. prof, 38-49, PROF, 49-54, 56-59, 61- Asst, Fed. Emergency Relief Admin, 34-35; coop. & credit technician, Near East Found, Iran, 54-56, area dir, 59-61; summers, lectr, library sch, Denver, 47, Iliff Sch. Theol, 58; Minnesota, 48; Wisconsin, 57. Regional consult, Off. Econ. Opportunity, 66- Rural Sociol. Soc. Rural population and rural social organizations; rural health and hospital facilities; institutional and social organization adaptations for semi-arid regions; social aspects of agricultural programs; mental illness in sparsely populated areas; aging programs and needs in sparsely populated places, especially as these exemplify the social cost of space. Publ: Northern Plains in a world of change, Gregory-Carwright, Ltd, Can, 42; Great Plains in transition, Oklahoma Univ, 55, reprint, 66; Pillars of service for the emerging community of the plains, J. Health & Human Behav, summer-fall 64. Address: Dept. of Sociology, Montana State University, Bozeman, Mont. 59715.

KRAFT, PROF. CHARLES H(ALL), Math. statist, see 11th ed, Phys. & Biol. Vols.

KRAFT, PROF. CLARENCE A, Sociol, see 10th ed, Soc. & Behav. Vols.

KRAFT, DR. IRVIN A(LAN), Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KRAFT, DR. J(ACK) A(RTHUR), b. Belleville, Ill, Apr. 23, 22; m. 48; c. 4. INDUSTRIAL PSYCHOLOGY. A.B, Illinois, 43; M.A, Washington (St. Louis), 48; Ed.D. Stanford, 51. Supvr. adv. & guid, U.S. Vet. Admin, 46-48; dir. voc. guid, Col. Marin, 48-51; supvr. mgt. selection, LOCKHEED AIRCRAFT CORP, 51-54, mgr. human factors res. dept, opers. res. div, Ga, 54-60, human factors sr. staff rep, LOCKHEED MISSILES & SPACE CO, 60-63, ASST. MGR. BIOTECH, 63- Indust. personnel consult, 46-51. U.S.A, 43-46. Fel. Psychol. Asn; Human Factors Soc.(secy-treas, 66-67). Human factors; human engineering; operations research and systems analysis; psychotherapy. Address: 11535 Mora Dr, Los Altos, Calif. 94022.

KRAFT, DR. W(ILLIAM) F(REDERICK), b. Pittsburgh, Pa, July 8, 38; m. 67. PSYCHOLOGY. B.A, Duquesne, 60, M.A, 62, Ph.D.(psychol), 65. Asst. prof. psychol, Mt. Mercy Col.(Pa), 65-67; DIR. PSYCHOL. SERV, SOMERSET STATE MENT. HOSP, 67- Lectr, inst. man, Duquesne, 66- Consult, Somerset State Ment. Hosp, 66-67; Somerset Community Hosp, 67- Contrib. ed, Envoy, 67- Psychol. Asn. Epidemiology of hospitalized psychotics; psychology of religious experience and of sports. Address: Somerset State Mental Hospital, Somerset, Pa. 15501.

KRAINER, DR. ROBERT E, b. Milwaukee, Wis, July 13, 35; m. 64; c. 1. BUSINESS ADMINISTRATION, ECONOMICS. B.S, Wisconsin, 57; M.B.A, Michigan, 59, Ph.D.(finance), 64. Fel. econ. Harvard, 64-65; ASST. PROF. FINANCE, WISCONSIN, 65- Fed. Deposit Ins. Corp. res. grant, 67-68. Finance; international finance; history of thought. Address: School of Business, University of Wisconsin, Madison, Wis. 53706.

KRAINES, OSCAR, b. Brooklyn, N.Y, Feb. 17, 16; m. 40; c. 1. POLITICAL SCIENCE. B.A, Brooklyn Col, 38; M.A, N.Y. Univ, 49. Instr, N.Y. Univ, 49-50; consult, Australian Consulate-Gen, 50-51; sr. consult, EXEC. DEPT, N.Y. STATE, 51-62, DIR. OPERS. & TRAINING, 62-, BUDGET OFFICER, N.Y. STATE JUDICIAL CONF, 64- Lectr, grad. sch. pub. admin, N.Y. Univ, 66- U.S.A, 41-45. Polit. Sci. Asn; Soc. Pub. Admin; Acad. Polit. & Soc. Sci. Federal reorganization; administrative management, ideas and institutions. Publ: Israel: the emergence of a new nation; Congress and the challenge of big government; Government and politics in Israel. Address: 1949 84th St, Brooklyn, N.Y. 11214.

KRAL, DR. VOJTECH ADALBERT, Psychiat, Neurol, see 11th ed, Phys. & Biol. Vols.

KRALL, DR. VITA, b. New Haven, Conn, July 9, 23. CLINICAL PSYCHOLOGY. B.A, Antioch Col, 44; M.A, Iowa, 45; N.Y. Univ, 45-47, U.S. Pub. Health fel, 47-51; Ph.D, Rochester, 51. Asst. psychologist, State Bd. Control, Iowa, 45; instr. clin. psychol, Mich. State, 51-53; clinical psychologist, children's sect, Topeka State Hosp, Kans, 53-57; consult, Coping Proj, Menninger Found, 58; clin. psychologist, Kans. Neurol. Inst, 59-61; Child Guid. Clin. Greater Bridgeport, Inc, 61-62; SR. CLIN. PSYCHOLOGIST, CHILD PSYCHIAT. DEPT, MICHAEL REESE HOSP, 63- Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. Psychol. Asn; Soc. Res. Child Develop; fel. Orthopsychiat. Asn; Soc. Proj. Tech. Emotional disturbance in children; projective techniques with children; perception and cognitive development. Publ: Personality characteristics of accident repeating children, J. Soc. Psychol; co-auth, Play techniques with children, In: Projective techniques. Address: Dept. of Psychology, Michael Reese Hospital & Medical Center, 29th St. & Ellis Ave, Chicago, Ill. 60616.

KRAMER, DR. ALFRED S(COTT), b. Richmond, Va, Jan. 8, 16; m. 41; c. 2. SOCIOLOGY. A.B, Va. Union, 45; M.A, N.Y. Univ, 49, Ph.D.(sociol), 55. Group worker, Youth Bd, New York City, N.Y, 49-50; assoc. exec. dir. dept. racial & cultural rels, Nat. Coun. Churches, 51-59; area community develop. adv, Agency Int. Develop, Isfahan, Iran, 59-62; consult. civil rights, Nat. Coun. Churches, 62-65; prov. rep, AGENCY INT. DEVELOP, Laos, 65-67, AREA COMMUNITY DEVELOP. ADV, THAILAND, 67- U.S.A, 44-47, Chaplain. Sociol. Asn. Race and international relations; rural community development. Address: USOM ID/CD, APO San Francisco 96346.

KRAMER, DR. BERNARD M(ORDECAI), b. Brooklyn, N.Y, Dec. 23, 23; m. 47; c. 3. SOCIAL PSYCHOLOGY. B.A, Brooklyn Col, 44; M.A, Harvard, 46, fel, 45-48, Ph.D.(soc. rels), 50. Asst, Harvard, 45-48; race rels, Chicago, 48-50; res. soc. psychologist, State Ment. Health Cmn, N.Y, 50-53; State Ment. Health Center, Mass, 57-60; asst. prof. PREV. MED, SCH. MED, TUFTS, 60-63, ASSOC. PROF, 63- Psychol. Asn; Sociol. Asn; Pub. Health Asn. Public health; mental health; inter-group relations; race prejudice; attitudes and public opinion. Publ: Day hospital: a study of partial hospitalization in psychiatry; Tenant participation in public housing, Community Ment. Health J, fall 67; Site of care in medical practice, Med. Care, 1-3/65. Address: Dept. of Preventive Medicine, Tufts University School of Medicine, 49 Bennet St, Boston, Mass. 02111.

KRAMER, DR. CLYDE Y(OUNG), Statist, see 11th ed, Phys. & Biol. Vols.

KRAMER, PROF. FRITZ L(OUIS), Geog, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KRAMER, DR. GERALD HOLMES, b. Washington, D.C, Nov. 6, 38; m. 60; c. 3. POLITICAL SCIENCE. B.S, Mass. Inst. Tech, 59, Nat. Defense Ed. Act fel, 59-62, Soc. Sci. Res. Coun. fel, 62-63, Ph.D.(polit. sci), 65. Instr. POLIT. SCI, Rochester, 63-64, asst. prof, 64-66, ASSOC. PROF, 66-68; YALE, 68- Nat. Sci. Found. fel, 66-67. Polit. Sci. Asn. Mathematical and statistical analysis; voting and electoral systems; decision theory. Publ: A decision-theoretic analysis of a problem in political campaigning, In: Mathematical Applications in Political Science, II, Southern Methodist Univ, 66; An impossibility result concerning the theory of decision-making, In: Mathematical Applications in Political Sciences, III, Univ. Virginia Press, 68. Address: Dept. of Political Science, Yale University, New Haven, Conn. 06520.

KRAMER, DR. H(ENRY) P(AUL), Math, see 11th ed, Phys. & Biol. Vols.

KRAMER, DR. HUGH EDGAR, b. Apr. 17, 29; U.S. citizen; m; c. 2. ECONOMICS. B.A, Goslar, 49; M.B.A, Frankfort, 52; Ph.D.(econ), Graz, 60. ASSOC. PROF. INT. BUS, SCH. BUS. ADMIN, AMERICAN UNIV, 67- Mkt. Asn; Econ. Asn; Soc. Int. Develop. Behavioral science approach to international business operations; comparative business and economics education by countries. Publ: The modern U.S. free enterprise system, Univ. Frankfurt, 52; Fashion industry and its management, K.Franzens Univ, 60; Higher education in San Diego: developing human resources, Copley, 65. Address: 6210 Greentree Rd, Bethesda, Md. 20034.

KRAMER, DR. JOHN E, JR, b. Philadelphia, Pa. May 19, 35; m. 58; c. 2. SOCIOLOGY. A.B. Dartmouth Col, 58; M.A, George Washington, 61; M.A, Yale, 63, Ph.D.(sociol), 65. Res. assoc, Yale, 63-65; asst. prof. sociol. & anthrop, Missouri, St. Louis, 65-68; ASSOC. PROF. SOCIOL, STATE UNIV. N.Y. COL. BROCKPORT, 68- U.S. Dept. Health, Ed. & Welfare study grant, 66-67. U.S.A, 57, Res, 57-, Capt. Sociol. Asn; Soc. Psychol. Study Social Issues. Urban and political sociology; race and ethnic relations. Publ: The other Mayor Lee, Focus/Midwest, spring 67; Politics in an all Negro city,

Urban Affairs Quart, 9/68; Political autonomy and economic dependence in an all-Negro municipality, Am. J. Econ. & Sociol, 1/69. Address: Dept. of Sociology, State University of New York College at Brockport, Brockport, N.Y. 14420.

KRAMER, DR. JOHN F(REDRICK), Psychiat, see 11th ed, Phys. & Biol. Vols.

KRAMER, DR. JUDITH R, b. New York, N.Y, Jan. 5, 33. SOCIOLOGY. B.A, Barnard Col, 53; M.A, Minnesota, 54, Ph.D.(sociol, Eng), 58; fel, Columbia, 54-55. Instr. SOCIOL, Macalester Col, 57-58; Pa. State, 58-60; BROOKLYN COL, 60-65, ASST. PROF, 65- Am. Philos. Soc. summer res. grant, 61. Consult, President's Cmt. Juvenile Delinquency & Youth Develop, Dept. Health, Ed. & Welfare, 63-64; Mobilization for Youth, New York, 64. Sociol. Asn. Minority community; qualitative methods; sociological theory; sociology of literature. Publ: Co-auth, Children of the gilded ghetto, Yale Univ, 61; auth, Sociology of art and the art of sociology, J. Arts in Society, 66; Resistance to sociological data: a case study, In: Sociology, Basic Books, 67. Address: Dept. of Sociology, Brooklyn College, Brooklyn, N.Y. 11210.

KRAMER, DR. KENNETH C(ALVERT), b. Buffalo, N.Y, Mar. 8, 29; m. 55; c. 2. CLINICAL PSYCHOLOGY. B.A, Houston, 55, M.A, 56, Ph.D, 59. Counsr, Univ. Houston, 55-57; res. psychologist, Prudential Ins. Co. Am, Tex, 57-58; resident psychologist & intern, John Sealy Hosp, Galveston, 58-59; asst. dir. psychol. eval. center, TRINITY (TEX), 59-63, ASSOC. PROF. PSYCHOL. & CHMN. DEPT, 62- Lectr, Houston, 56-58. Consult, Community Guid. Center, Bexar County, 61-63; U.S. Air Force Lackland Hosp, 62-64; Good Samaritan Center, 64-; Econ. Opportunity Develop. Corp, 65- U.S.N, 48-54, Lt.(jg). Psychol. Asn. Early childhood cognitive and personality development; educational and developmental problems of culturally disadvantaged children; emotional and neurological learning disabilities; family dynamics and therapy. Address: Dept. of Psychology, Trinity University, San Antonio, Tex. 78212.

KRAMER, DR. LEONARD J(OHN), b. Sandusky, Ohio, Jan. 8, 08; m. 32; c. 2. POLITICAL SCIENCE. A.B, Elmhurst Col, 30; summers, Chicago, 31, 32; B.D, Yale, 33, Ph.D, 42. Pastor, New Eng, 33-47; prof. polit. sci. & head dept, Hanover Col, 47-62; assoc. exec. dir. dept. int. affairs, Nat. Coun. Churches of Christ in U.S.A, 62-66; PROF. POLIT. SCI. & CHMN. DEPT, NEBR. WESLEYAN, 66- Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Church and state; current affairs; international relations. Publ: Ed, Man amid change in world affairs, Friendship, 64. Address: Dept. of Political Science, Nebraska Wesleyan University, Lincoln, Nebr. 68504.

KRAMER, DR. MILTON, b. Chicago, Ill, Nov. 29, 29; m. 55; c. 4. PSYCHIATRY. B.S, Illinois, 50, B.S, 52, M.D, 54. Resident PSYCHIAT, COL. MED, CINCINNATI, 55-58, instr, 60-64, asst. prof, 64-68, ASSOC. PROF, 68- Med.C, U.S.A, 58-60, Capt. Psychiat. Asn; Asn. Psychophysiol. Study Sleep. Dream research. Publ: Dream psychology and the new biology of dreaming, C.C. Thomas, (in press). Address: Dept. of Psychiatry, College of Medicine, University of Cincinnati, Cincinnati, Ohio 45220.

KRAMER, DR. MORTON, Statist, Epidemiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KRAMER, DR. ROBERT C, b. Chrisney, Ind, Nov. 5, 20; m. 45; c. 6. AGRICULTURAL ECONOMICS, ACADEMIC ADMINISTRATION. B.S, Purdue, 47; M.S, Mich. State, 48, Ph.D.(agr. econ), 52. Instr. agr. econ, Mich. State, 48-52, asst. prof, 52-53, assoc. prof, 53-55, prof, 55-65, dir. agr. mkt. & utilization center, 60-65; v.pres, CALIF. STATE POLYTECH. COL, KELLOGG-VOORHIS, 65-66, PRES, 66- Gen. Foods Corp. fel, 56; vis. prof, Harvard, 57; Cornell, 59; Arkansas, 60; Colorado State, 61; Wisconsin, 62; California, Berkeley, 63-64. Participant, res. proj, U.S. Dept. Agr, 63-64; Bank of Am, San Francisco, 64. U.S.N, 41-46, Lt. Comdr. Agr. Econ. Asn; Mkt. Asn. General agricultural marketing; college administration. Publ: Co-auth, Grower group-action marketing program, Univ. Missouri, 65; Cattle feeding in California, Bank of Am, 65. Address: California State Polytechnic College, Kellogg-Voorhis, Pomona, Calif. 91766.

KRAMER, DR. ROBERT LOUIS, b. New York, N.Y, June 7, 15; m. 47; c. 3. CLINICAL & INDUSTRIAL PSYCHOLOGY. B.A, Colgate, 49; M.S, Pa. State, 52, Ph.D.(psychol), 54. Clin. psychol. trainee, Vet. Admin. Hosp, 50-51; consult. psychologist, Rohrer, Hibler & Replogle, 53-60; ASST. PROF. PSYCHOL, CLEVELAND STATE, 63- Consult. psychologist, 60- U.S.A, 42-46, 1st Lt. Psychol. Asn; Int. Soc. Gen. Semantics. Mental hygiene; personality evaluation and development; human values; business management and organization. Address: Dept. of Psychology, Cleveland State University, Cleveland, Ohio 44115.

KRAMER, PROF. ROLAND L(AIRD), b. Philadelphia, Pa, Feb. 26, 98. TRANSPORTATION ECONOMICS. B.S, Pennsylvania, 19, A.M, 21; Ph.D, 23. Instr. COMMERCE & TRANSPORTATION, PENNSYLVANIA, 19-23, asst. prof, 23-31, PROF, 31-, FACULTY ADV, 37- Spec. agent, U.S. Dept. Commerce, 23, 31; sr. econ. analyst, Off. Spec. Adv. to President on For. Trade, 35; bus. specialist, For. Trade Zones Bd, 36; spec. expert, U.S. Maritime Cmn, 38-39; hon. consul, Peru, 47-49. Consult, U.S. Secy. Commerce, 39-40; div. statist. & res, War Shipping Admin, 42-45; Gov. Panama Canal, 46-47; various indust. & legal firms, 46- Spec. ed, in charge marine transportation terms, Webster's New Int. Dictionary, 29. Asn. Ed. Int. Bus.(pres, 61-64); Soc. Int. Execs. Commerce; history of export and import railroad rates and their effect upon the foreign trade of the United States; transportation in relation to the export trade in agricultural products; foreign trade survey of Philadelphia area manufacturers. Publ: International marketing; International trade & finance, South-Western Pub, 66. Address: Dietrich Hall, Wharton School, University of Pennsylvania, Philadelphia, Pa. 19104.

KRAMER, PROF. SOL, Biol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KRAMISH, DR. ARTHUR A(ARON), b. Denver, Colo, May 2, 17; m. 48. CLINICAL PSYCHOLOGY. B.A, Denver, 40, Ph.D.(psychol), 51. Personal counsr, Vet. Admin, Denver, Colo, 46-51; asst. chief clin. psychol, Vet. Admin. Hosp, Lexington, Ky, 51-53, chief clin. psychol. serv, Lincoln, Nebr, 53-57, chief psychol. serv, Knoxville, Iowa, 57-61; Fed. Reformatory, U.S. Bur. Prisons, Chillicothe, Ohio, 61-65; MENT. HEALTH CONSULT, REGION VI, NAT. INST. MENT. HEALTH, 65- Clin. counsr, Denver, 50-51; assoc. clin. psychol, Nebraska, 54-56. U.S.A, 41-46, Res, 46-, Maj. AAAS; Psychol. Asn; Personnel & Guid. Asn; Soc. Proj. Tech; Soc. Group Psychother. & Psychodrama; Pub. Health Asn. Psychotherapy; behavior disorders; training. Publ: Problems in the non-directive therapist's reflection of feeling, J. Soc. Psychol; Letter reading in group psychotherapy, Group Psychother; The challenge of the inmate city, J. Rehab, 62. Address: 427 Ward Parkway, Kansas City, Mo. 64112.

KRAMM, DR. ELIZABETH R(OSE), b. Grass Valley, Calif, Feb. 1, 18. SOCIOLOGY. A.B, California, 41, M.P.H, 50; M.A, North Carolina, 51; Pa. Asn. Retarded Children scholar, Pittsburgh, 55, Ph.D, 58. Pub. health analyst, bur. vital statist, State Dept. Pub. Health, Calif, 43-45; dir. soc. studies, Los Angeles County Tuberc. & Health Asn, 45-47; asst, sch. pub. health, California, 47-48; inst. res. soc. sci, North Carolina, 49-50; res. assoc. maternal & child health, grad. sch. pub. health, Pittsburgh, 52-57; health res. specialist, children's bur, DEPT. HEALTH, ED. & WELFARE, 59-65, surv. statistician, pub. health serv, Nat. Center Health Statist, 65-66, RES. CONSULT, SOC. & REHAB. SERV, 66- Nat. Inst. Allergy & Infectious Diseases res. grant, 59-65. Fel. Sociol. Asn; fel. Pub. Health Asn; Rehab. Asn; Int. Soc. Rehab. Public and child health; mental retardation; incidence of cystic fibrosis; physical and vocational rehabilitation of persons in poverty areas. Publ: Co-auth, Audiometric testing of hearing of school children, J. Speech & Hearing Disorders, 53; A cystic fibrosis pilot survey in three New England States, Am. J. Pub. Health, 62; auth, Families of mongoloid children, Govt. Printing Off, D.C, 63. Address: 510 N. St. S.W, Apt. N-417, Washington, D.C. 20024.

KRANTZ, DR. DAVID H(AROLD), b. Buffalo, N.Y, Dec. 30, 38; m. 60; c. 2. PSYCHOLOGY. B.A, Yale, 60; Nat. Sci. Found. fel, Pennsylvania, 60-63, Ph.D.(psychol), 64. Instr. PSYCHOL, Pennsylvania, 63-64; asst. prof, MICHIGAN, 64-68, ASSOC. PROF, 68- Res. grants, Nat. Inst. Ment. Health, 65-66, Nat. Sci. Found, 66-; U.S. Pub. Health Serv. spec. res. fel, 68. AAAS; Psychonomic Soc. Color vision; measurement theory; multidimensional scaling; visual perception. Publ: Conjoint measurement: the Luce-Tukey axiomatization and some extensions, 64 & A theory of context effects based on cross-context matching, 68, J. Math. Psychol; co-auth, The foundations of multidimensional scaling, Psychol. Rev, 68. Address: Dept. of Psychology, University of Michigan, Ann Arbor, Mich. 48104.

KRANZBERG, PROF. MELVIN, Hist. of Sci. & Tech, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KRANZLER, PROF. GEORGE, b. Stuttgart, Germany, Jan. 27, 17; U.S. citizen; m. 44; c. 4. SOCIOLOGY. M.A, Columbia, 43, Ph.D.(sociol), 54; Ph.D. (philos), Würzburg, 48. Prin, high schs, 45-65; PROF. SOCIOL, TOWSON STATE COL, 66. Prof, eve. faculties, N.Y. Univ, 54-55; German, Baltimore Community Col, 61; Hopkins, 67. Fel. Sociol. Asn; Acad. Polit. & Soc. Sci. Community research. Publ: Williamsburg—a Jewish community in transition, Feldheim, Inc, 62. Address: 3509 Devonshire Dr, Baltimore, Md. 21215.

KRAPFL, DR. JON EDWARD, b. Cedar Rapids, Iowa, Sept. 17, 41; m. 63; c. 2. PSYCHOLOGY. B.A, North Texas State, 63, M.A, 65; U.S. Pub. Health Serv. trainee, Missouri, Columbia, 64-67, Ph.D, 67. ASST. PROF. MED. PSYCHOL, SCH. MED, MISSOURI, 67- Psychol. Asn. Use of operant and classical conditioning in changing pathological behavior especially with disturbed or retarded children. Publ: The development of a unit operant system for the severely retarded child, Am. Asn. Ment. Deficiency, 10/67; The relationship factor in systematic desensitization, Midwest. Psychol. Asn, 5/68. Address: Medical Psychology Section, Dept. of Psychiatry, University of Missouri Medical Center, Columbia, Mo. 65201.

KRASEMAN, THOMAS W(ILLIAM), b. Milwaukee, Wis, Aug. 21, 17. ECONOMICS. B.A, Wisconsin, 39. ECONOMIST, BUR. LABOR STATIST, U.S. DEPT. LABOR, 42, 46- U.S.A.F, 42-46. Statist. Asn. Business cycle theory. Address: 5330 Colorado Ave. N.W, Washington, D.C. 20011.

KRASNER, DR. JACK D(ANIEL), b. Atlanta, Ga, June 10, 21; m. 48; c. 2. PSYCHOLOGY. B.S, Georgia, 45; M.A, N.Y. Univ, 50, Ph.D, 52. Intern psychol, Mt. Sinai Hosp, New York, 48-50, asst. clin. psychologist, 50-53; fel-in-training, POSTGRAD. CENTER MENT. HEALTH, NEW YORK, 52-55, psychologist, 55-57, sr. psychologist, 57-61, assoc. supvr, 61-63, SUPVR, 63-; ASST. PROF. PSYCHOL, FAIRLEIGH DICKINSON, 67- Attend. clin. psychologist, neuropsychiat. clin, Englewood Hosp, N.J, 56-60; lectr, dept. group psychother, Postgrad. Center Ment. Health, 59-; dir. group psychother, N.J. Center Psychother, 61-64. Consult, Stony Lodge, N.Y, 48-53; proj. aging, New York Community Ment. Health Bd, 61-; children's shelter, Bergen Pines Hosp, Paramus, N.J, 62- Ed, N.J. Psychologist, 67- Mem, Coun. Psychoanal. Psychother, 59-; first v.pres, Group Psychother. Found, Inc, 61- Gralnick award, 57. U.S.A.A.F, 42-43. Psychol. Asn; fel. Group Psychother. Asn; Orthopsychiat. Asn; Geriat. Soc. Regressive electroshock therapy; mental health prevention and rehabilitation of the elder person; training in group psychotherapy. Publ: Co-auth, Practicum in group psychotherapy, Harper; co-auth, Use of serial testing in regressive electroshock treatment, In: Relation of psychological tests to psychiatry, Grune, 52; Psychoanalytic treatment of the elder person via group psychotherapy, In: Acta Psychotherapeutica, Suppl, 7: 205-223. Address: 388 Lydecker St, Englewood, N.J. 07631.

KRASNER, PROF. LEONARD, b. Brooklyn, N.Y, Dec. 17, 24; m. 47; c. 2. PSYCHOLOGY. B.S, City Col. New York, 46; M.A, Columbia, 47, Ph.D. (psychol), 50. Clin. psychologist, vet. admin. training prog, New York, 47-50; instr. psychol, Massachusetts, 50-51; clin. psychologist, ment. hyg. clin, Vet. Admin. Regional Off, Brooklyn, 51-53; asst. prof. psychol, Colorado, 53-54; asst. chief clin. psychol. serv, Vet. Admin. Hosp, Lexington, Ky, 54-56; chief psychol. training unit, Palo Alto, Calif, 56-64; vis. scholar, Ed. Testing Serv, 64-65; PROF. PSYCHOL. & DIR. CLIN. TRAINING, STATE UNIV. N.Y. STONY BROOK, 65- Assoc. consult. prof, Stanford, 56-

Consult, Vet. Admin. Hosps, Brockton, Mass. & Palo Alto, Calif, 65- Dipl, Am. Bd. Exam. Prfnl. Psychol, 55. U.S.A, 43-46. AAAS; fel. Psychol. Asn. Psychotherapy; verbal operant conditioning; behavior modification; placebo response. Publ: Co-auth, Research in behavior modification, 65 & Case studies in behavior modification, 65, Holt; Studies of the conditioning of verbal behavior, Psychol. Bull. Address: Dept. of Psychology, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

KRASNOFF, PROF. ALAN (GERALD), b. Somerville, Mass, Mar. 18, 28; m. 59; c. 4. PSYCHOLOGY. B.A, Bridgeport, 50; Massachusetts, 51; Rosalie B. Hite fel, Texas, 54-56, M.A, 54, Ph.D.(couns. psychol), 56. Fel, Univ. Texas M.D. Anderson Hosp. & Tumor Inst, Houston, 56-58; instr. psychol, sch. med, Washington (St. Louis), 58-59; res. psychologist, Vet. Admin. Hosp, St. Louis, 59-65; assoc. prof. PSYCHOL, MISSOURI, ST. LOUIS, 65-66, PROF. & CHMN. DEPT, 66- Consult, Family & Children's Serv. Greater St. Louis, 60-65; Alton State Hosp, 66- AAAS; Psychol. Asn. Relationships between psychological variables and physical disease, connotative meaning and behavior deviations, and attitude change. Publ: Psychological variables and human cancer: a cross-validation study, 59 & co-auth, Body image and physiological reactivity patterns in peptic ulcer and rheumatoid arthritic patients, 64, Psychosom. Med, 64; Influence of test-taking attitudes on personality inventory scores, J. Consult. Psychol, 67. Address: Dept. of Psychology, University of Missouri at St. Louis, 8001 Natural Bridge, St. Louis, Mo. 63121.

KRASSOVSKY, DR. COLLEROHE, b. Istanbul, Turkey, June 29, 94; nat; m. 23, 52. SOCIOLOGY. D.A.E.F, Sorbonne, 25; A.M, Michigan, 31, fel, 33-34; 36-37, Ph.D.(sociol), 37. Res. assoc, nat. health surv, U.S. Pub. Health Serv, 34-35, 37-39; asst. prof. sociol. & soc. res, grad. sch, Col. William & Mary, 40-41; assoc. prof. SOCIOL, Sweet Briar Col, 41-42, 46-47; Howard, 47-54; res. assoc, Am. Inst. Crop Ecol, 54-56; PROF. LECTR, CATHOLIC UNIV, 59- Lectr, Rochester, 43; prof. lectr, Wayne State, 44-45; vis. prof, Univs. Virginia & West Virginia & Milwaukee State Teachers Col, 49-50. Consult, Am. Serv. Inst, 43-44. Med.C, Russian Imperial Army, 15-17. AAAS; fel. Sociol. Asn; Soc. Study Social Probs. Social institutions; intergroup relations; public opinion and propaganda; American culture. Publ: Some socio-psychological considerations in an approach toward American unity; The teachers role in intercultural education. Address: Apt. 201, 4514 Connecticut Ave. N.W, Washington, D.C. 20008.

KRASSOWSKI, PROF. WITOLD, b. Piesza-Wola, Poland, Sept. 8, 21; nat; m. 51; c. 3. SOCIOLOGY. Kosciuszko Found. fel. & B.Sc, Purdue, 52, M.S, 54. Asst. SOCIOL, Purdue, 52-54; California, Los Angeles, 54-56; instr, Occidental Col, 57; from asst. prof. to ASSOC. PROF. & CHMN. DEPT, SANTA CLARA, 57-, DIR. DIV. SOC. SCI, 66- Lectr. & consult, Lockheed Missiles & Space Co, Calif, 60- Fulbright teaching fel, dept. sociol, Univ. Madras, 67-68. Consult, Dept. Soc. Welfare, Hwy. Patrol, Atascadero & Agnews Hosps, State of Calif, 60- Polish & Brit. Army, 39-49, 1st Lt. AAAS; Sociol. Asn; Soc. Study Soc. Probs; Asn. Adv. Slavic Studies. Naturalization as a measure of assimilation of California immigrant populations; organization-proneness in modern society; complex organization. Publ: Co-auth, Inmate organization and anomie in American prisons and Soviet labor camps, Soc. Probs; Impact of a value-oriented university on students attitudes and thinking, Monogr, U.S. Off. Ed. Address: Dept. of Sociology, University of Santa Clara, Santa Clara, Calif. 95053.

KRATHWOHL, DEAN DAVID R(EADING), b. Chicago, Ill, May 14, 21; m. 43; c. 3. PSYCHOLOGY. B.S, Chicago, 43, M.A, 47, Ph.D, 53. Instr, Illinois, 49-53, asst. prof, 53-55; assoc. prof. & coordinator res, bur. ed. res, Mich. State, 55-58, dir, 63-65, prof, 58-65; PROF. ED. & DEAN SCH. ED, SYRACUSE, 65- Ed, Rev. Ed. Res, 58-62. Chmn. bd. trustees, East. Regional Inst. Ed, 66- U.S.A, 43-45. Psychol. Asn; Statist. Asn; Ed. Res. Asn.(pres, 68-69). Educational measurement; research design and development. Publ: Co-auth, Handbook I, cognitive domain: a taxonomy of educational objectives, 56 & Handbook II, affective domain: a taxonomy of educational objectives, 64, McKay. Address: School of Education, Syracuse University, Syracuse, N.Y. 13210.

KRATZ, DR. LAWRENCE ANTHONY, b. Cincinnati, Ohio, July 14, 20; m; c. 4. ECONOMICS, GEOGRAPHY. B.A, Cincinnati, 42, M.A, 45; Ph.D.(econ), Mississippi, 66. Instr. geog, South Carolina, 46-48; econ. & geog, Franklin & Marshall Col, 48-49; munic. bond analyst, Dun & Bradstreet, N.Y, 49-50; ins. salesman, 50-56; asst. prof. ECON, Miss. State, 56-61, assoc. prof, 61-68; PROF, NORTHEAST LA. STATE COL, 68- Effect of natural environment on economic activity; managerial motivation theory; international economic relations; regional economic development; effect of religious beliefs and moral concepts on economic ethical philosophy. Publ: Economic restructure of Mississippi Counties, Miss. State Univ, 66; Motivation of the business manager, 60 & Neglected export opportunities and the profit-maximizing assumption, 63, Behav. Sci. Address: Dept. of Economics, Northeast Louisiana State College, Monroe, La. 71201.

KRAUS, DR. ARTHUR S(AMUEL), b. New York, N.Y, Aug. 2, 25; m. 46; c. 3. BIOSTATISTICS. B.S, City Col. New York, 49; M.S, Columbia, 53; Sc.D. (biostatist), Pittsburgh, 58. Jr. statistician, City Dept. Health, N.Y, 49-50; biostatistician, State Dept. Health, N.Y, 50-57; chief, div. statist. res. & records, State Dept. Health, Md, 58-62; assoc. dir. off. res, New York City Dept. Health, 62-65; head dept. biostatist, Montefiore Hosp. & Med. Center, Bronx, N.Y, 65-66; ASSOC. PROF. BIOSTATIST, QUEEN'S (ONT), 66- Lectr, sch. pub. health, Hopkins, 58- Mem, sub-cmt. classification congenital malformations, U.S. Nat. Cmt. Vital & Health Statist. U.S.A, 43-45. Statist. Asn; fel. Am. Pub. Health Asn; fel. Heart Asn; Can. Pub. Health Asn. Epidemiological investigation of diseases; evaluation of therapies and of public health programs and activities; administration of public health statistical activities. Publ: Co-auth, Some epidemiologic aspects of the high mortality rate in the young widowed group, J. Chronic Diseases, Effect of the anti-coronary club program on coronary heart disease risk factor status, J. Am. Med. Asn, 11/66 & Sudden, unexpected death in infancy in Ontario, Can. J. Pub. Health, 8/67. Address: Dept. of Preventive Medicine, Queen's University, Kingston, Ont, Can.

KRAUS, DR. HERTHA, Soc. Econ, see 10th ed, Soc. & Behav. Vols, deceased 68.

KRAUS, DR. JANE M(ARY), b. Chomutov, Czech, Nov. 16, 07; nat; m. 32. CLINICAL PSYCHOLOGY. Ph.D, Karl's Univ, Czech, 30. Teacher, Pilsen Prep. Sch, Czech, 32-35; Dux & Aussig, 37-38; psychologist, Labor Res. Inst, Prague, 45-48; asst. clin. psychologist to Dr. Molly Harrower, N.Y. Univ, 48-49; from clin. psychologist to CHIEF PSYCHOLOGIST, N.H. HOSP, 49- Psychol. Asn; Int. Coun. Psychol. Psychotherapy. Publ: Co-auth, Psychological studies on patients with multiple sclerosis, Am. Med. Asn. Arch. Neurol. & Psychiat. Address: New Hampshire Hospital, Concord, N.H. 03301.

KRAUS, DR. JEROME, b. Chicago, Ill, Nov. 13, 21; m. 46; c. 2. ECONOMICS, LAW. A.B, Chicago, 42; B.S.E.E, Illinois, Urbana, 47; N.Y. Univ, 49-51; J.D, George Washington, 53; M.A, New Sch. Soc. Res, 67. Prod. engr, West. Elec. Co, N.J, 47-48, law clerk, patent div, 48-51; proj. engr, labs. div, Vitro Corp. Am, 51-56; dir. systs. mgt, Fairchild Camera & Instrument Corp, N.Y, 56-59; mgr. systs. eng, ITT Fed. Labs, INT. TEL. & TEL. CORP, 59-60, DIR. BUS. PLANNING, 60-66, DEFENSE-SPACE GROUP, 66- Sig.C, U.S.A, 42-45. Econ. Asn; Asn. Bus. Econ; Inst. Elec. & Electronics Eng. Input-output studies and linear programming analyses of industrial corporations; optimizing resource allocation; long range technological and economic forecasts. Publ: Communications satellites and the law, Proc. Seventh Nat. Commun. Symp, Inst. Radio Engrs, 10/61; Technology 1962-1966, Elec. Eng, 1/62; Legal aspects of space communications and space surveillance, J. Air Law & Commerce, summer 63. Address: International Telephone & Telegraph Corp, Defense-Space Group, 500 Washington Ave, Nutley, N.J. 07110.

KRAUS, PROF. MICHAEL, Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KRAUS, DR. MOZELLE BIGELOW, Psychol, see 11th ed, Phys. & Biol. Vols.

KRAUS, PROF. PHILIP E(LLIS), b. New York, N.Y, Feb. 1, 08; m. 33; c. 3. EDUCATIONAL PSYCHOLOGY. B.A, City Col. New York, 28; M.A, Columbia, 31; Ph.D.(ed. psychol), N.Y. Univ, 43. Lectr. & asst. prof. ed, Yeshiva, 33-47, assoc. prof, 48-56, prof, 56-63, psychologist, psychol. clin, 50-52, admissions officer, grad. sch, 52-57; PROF. ED, HUNTER COL, 63- Teacher & asst. prin, elem. sch, N.Y, 31-50, prin, 50-54; asst. dean, sch. ed, Hebrew Union Col, 47-48; lectr, City Col. New York, 53-63; dir. vacation demonstration sch. for except. children, Hunter Col, 54; proj. dir, bur. ed. res, New York City Bd. Ed, 54-61; dir. Gifted Child Proj, 59-63; lectr, Old Dom. Col, 65; Tuch Found. res. grants, 65-67. Consult, pub. & private schs. & cols, 55- Fel. Psychol. Asn; Ed. Res. Asn; Asn. for the Gifted; Coun. Except. Children; Nat. Asn. Gifted Children. Gifted children; research design; longitudinal study of several hundred children begun in 1953 when they entered kindergartens in several public schools. Publ: Occupational guidance for the talented pupil, Guid. News, 12/65; Techniques with the intellectually gifted, Ment. Health & Ed, 1/66; Innovations and promise, Teacher Ed. News, 6/66. Address: 215 W. 78th St, New York, N.Y. 10024.

KRAUSE, DR. ANNEMARIE E, b. Germany, Dec. 4, 01; nat. GEOGRAPHY. B.S, Minnesota, 28; M.S, Illinois, 30; Ph.D.(geog), Chicago, 52. Teacher, pub. schs, Mich, 19-21, 23-24; asst. prof. geog, Southern Illinois, 30-52, assoc. prof, 52-67; RETIRED. Geographic analyst, Off. Strategic Serv, 42. Asn. Am. Geog; Coun. Geog. Ed. Economic geography; Latin America; human geography. Publ: Mennonite settlement in the Paraguayan Chaco, Geog. Res. Paper, Chicago. Address: Dept. of Geography, Southern Illinois University, Carbondale, Ill. 62901.

KRAUSE, DR. KENNETH R, b. Storm Lake, Iowa, June 27, 34. ECONOMICS, AGRICULTURAL ECONOMICS. B.S, Iowa State, 57, M.S, 59; Ph.D.(agr. econ), Purdue, 63. Mgt. consult, Schering Corp, N.J, 59-60; asst. econ, Purdue, 60-63, coordinator mutual ins. sch, div. confs, 62, instr. in res, 63; asst. prof. econ, South Dakota, 63-67, assoc. prof, 67-68; AGR. ECONOMIST, ECON. RES. SERV, U.S. DEPT. AGR, 68- Am. Coun. Int. Asn. Agr. Econ. travel grant, Int. Asn. Agr. Econ. Meeting, Sydney, 67. U.S.A.R, 54-55. Am. Agr. Econ. Asn; Can. Agr. Econ. Asn; Int. Asn. Agr. Econ. Agricultural finance; management evaluation; interdisciplinary approach to evaluating the role and ability of the human element in the management of agricultural firms. Publ: Family estate planning, Agr. Exp. Sta, 3/66 & S.Dak. State Univ, 7/67; The methodology and application of a vector and regression technique for estimating long run cost curves, West. Farm Econ. Asn, fall 66; Information about the profession for prospective graduate students in agricultural economics, J. Farm Econ, 5/67. Address: Agricultural Finance Branch, Economic Research Service, U.S. Dept. Agriculture, Washington, D.C. 20250.

KRAUSE, DR. LAWRENCE BERLE, Int. Econ, see 10th ed, Soc. & Behav. Vols.

KRAUSE, DR. LEONARD F(RANCIS), Clin. Psychol, see 10th ed, Soc. & Behav. Vols.

KRAUSE, DR. MERTON S(HERWIN), b. Flint, Mich, Apr. 28, 31; m. 58. PSYCHOLOGY. B.A, Michigan, 53; Harvard Law Sch, 53-54; Ph.D.(psychol), Chicago, 59. Res. assoc. psychol, Michigan, 57-60; res. dir, Family Serv. of Cincinnati Area, 60-65; SR. RES. ASSOC. PSYCHOL, INST. JUVENILE RES, 65- AAAS; Psychol. Asn; Philos. Sci. Asn. Social psychology; attitude change; psychotherapy; scientific methodology. Address: Institute for Juvenile Research, 232 E. Ohio, Chicago, Ill. 60611.

KRAUSE, PROF. WALTER, b. Canby, Ore, Jan. 12, 17. ECONOMICS. B.A, Oregon, 42, M.A, 43; A.M, Harvard, 44, Ph.D.(econ), 45. Asst. prof. econ, Texas, 45-47; Dartmouth Col, 47-50; prof, Utah, 50-54; economist, Coun. Tech. Adv, 54-55; head econ. develop. div, U.S. Opers. Mission, Philippines, 55-58; PROF. ECON, IOWA, 58-, res. prof, 61. Fulbright res. grant, Australia, 53; vis. prof, California, Riverside, 62-64. Adv, U.S. Dept. State, 55-58; consult, Cent. Bank, Dominican Repub, 46-49; Int. Coop. Admin, 58-; Pan Am. Union, 59-; Inter-Am. Develop. Bank, 65-; Inter-Am. Cmt. Alliance for Progress, 66- Mem, U.S. Delegation, UN Conf. Econ. Develop, Bangkok, 55; Colombo Plan Conf, Saigon, 57. Econ. Asn; Soc. Int. Develop. Interna-

tional and underdeveloped economics; United States foreign economic policy. Publ: Economic development, Wadsworth, 61; International economics, Houghton, 65; The economy of Latin America, Univ. Iowa, 66. Address: Dept. of Economics, University of Iowa, Iowa City, Iowa 52240.

KRAUSKOPF, DR. CHARLES J(OSEPH), b. Evanston, Ill, Oct. 18, 31; m. 54. PSYCHOLOGY. A.B, Ohio, 53; M.A, Ohio State, 56, Ph.D, 60. Asst, Ohio State, 55-59, counsr, counseling & testing center, 59-60; asst. prof. PSYCHOL. & counsr, Colorado, 60-62; asst. prof, MISSOURI, 62-65, ASSOC. PROF, 65-, COUNSELING PSYCHOLOGIST, 62- Consult, Vet. Admin, 63-; Soc. Security Admin, 63-66. U.S.N, 53-55, Res, 55-, Lt. Psychol. Asn; Personnel & Guid. Asn. Human learning; measurement; characteristics of effectively functioning individuals; counseling. Address: 220 Parker Hall, University of Missouri, Columbia, Mo. 65201.

KRAUSKOPF, DR. JOHN K, Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KRAUSS, PROF. DANIEL T(HEODORE), b. Gypsum City, Kans, May 17, 94; m. 33. BUSINESS ADMINISTRATION, LAW. B.S, Knox Col, 17; J.D, Chicago, 26. From instr. to prof. BUS. ADMIN, WITTENBERG, 26-62, head dept, 29-62, dir. spec. schs, 39-51, EMER. PROF, 62- Ed, Ohio Bus. Teacher, 43-45. U.S.A, 18-19. Econ. Asn; Mkt. Asn; Finance Asn. Address: 603 E. Cecil St, Springfield, Ohio 45503.

KRAUSS, DR. IRVING, b. New York, N.Y, Apr. 30, 26; m. 50. SOCIOLOGY. B.A, California, 50, Ph.D.(sociol), 61; M.A, Chicago, 55. Asst. prof. SOCIOL, HAWAII, 58-66, ASSOC. PROF, 66- Fel. Sociol. Asn. Social stratification. Publ: Co-auth, Structural marginality and social worth, Sociol. & Soc. Res, 4/64; auth, Sources of college aspirations among working-class youth, Am. Sociol. Rev, 12/64; Some perspectives on social stratification and social class, Sociol. Rev, 7/67. Address: Dept. of Sociology, University of Hawaii, 2550 Campus Rd, Honolulu, Hawaii 96822.

KRAUSS, DR. ROBERT M(EYER), b. Newark, N.J, Aug. 19, 31; m. 57; c. 2. SOCIAL PSYCHOLOGY. B.A, N.Y. Univ, 55, Ph.D.(psychol), 64. Res. psychologist, Bell Tel. Labs, Inc, 58-66; asst. prof. psychol, Princeton, 66-67; vis. lectr. soc. rels, Harvard, 67-68; ASSOC. PROF. PSYCHOL. & CHMN. DEPT, LIVINGSTON COL, RUTGERS, 68- Psychol. Asn. Language and communication in children and adults; conflict, cooperation and competition in social interaction. Publ: Co-auth, Theories in social psychology, Basic Books, 65 & The effect of threat upon interpersonal bargaining, J. Abnorm. & Soc. Psychol, 60; auth, Structural and attitudinal factors in interpersonal bargaining, J. Exp. & Soc. Psychol, 66. Address: Dept. of Psychology, Livingston College, Rutgers, The State University, New Brunswick, N.J. 08903.

KRAUSZ, PROF. NORMAN G. P, b. New Baden, Ill, Apr. 14, 20; m. 41; c. 2. LAW, AGRICULTURE. B.S, Illinois, 40, LL.B, 48. Asst. prof. govt. & pub. affairs, ILLINOIS, URBANA, 49-53, assoc. prof. AGR. LAW, 53-57, PROF. & HEAD DIV, 57- Mem, Mich. Legis. Cmn. Govt. Reorgn, 51; UN expert, Govt. Cyprus, 61. U.S.A, 41-46, Maj. Nat. Planning Asn. Farm taxation and farm business organization; rural planning and zoning; state water law. Publ: Illinois law and court decisions on agriculture, Stipes Printing, 60; auth, County zoning—a blueprint, 62 & co-auth, Family planning of titles and taxes, 66, Univ. Illinois. Address: 149 Bevier Hall, University of Illinois, Urbana, Ill. 61801.

KRAUTHAMER, DR. GEORGE M(ICHAEL), Neurophysiol, see 11th ed, Phys. & Biol. Vols.

KRAUTHOFF, LOUIS C, b. Montclair, N.J, July 23, 17; m. 56; c. 3. ECONOMICS, LAW. A.B, Williams Col, 39; LL.B, Boston, 46; M.A, American Univ, 59. Asst. to pres, H.D. Catty Corp, Conn, 46-51, exec. v.pres, 51-55; pres, Coated & Processed Paper Asn, 55-57; dir. financial & pub. rels, Cmt. Nat. Trade Policy, 57-63, treas, 64; CHMN. TRADE INFO. CMT, OFF. SPEC. REP. FOR. TRADE NEGOTIATIONS, EXEC. OFF. PRESIDENT, 64- President's spec. rep. trade negotiation; mem. bd. dir, Found. Int. Trade Res, Citizens Center, Inc; pres, Laminated Foil Mfgs. Asn, 53-55. U.S.A.A.F, 42-45, 1st Lt; Brevet Militaire de Pilote d' Avion, France. Acad. Polit. & Soc. Sci; Econ. Asn; Am. Soc. Int. Law; Soc. Int. Develop; Inter-Am. Bar Asn; African Studies Asn; Finance Asn. International trade; foreign investments; taxes. Address: 3317 O St. N.W, Washington, D.C. 20007.

KRAVIS, PROF. IRVING B(ERNARD), b. Philadelphia, Pa, Aug. 30, 16; m. 41; c. 4. ECONOMICS. Ph.D, Pennsylvania, 47. Economist, U.S. Dept. Labor, 46-48, consult, 49-52; asst. prof. ECON, PENNSYLVANIA, 49-53, assoc. prof, 53-56, PROF, 56-, chmn. dept, 55-58, 62-67, assoc. dean, Wharton Sch, 58-60. Assoc. prof, Massachusetts, 48-49; Ford Found. faculty res. fel, 60-61; Guggenheim fel, 67-68. Consult, Fed. Reserve Bd, 65-; Agency Int. Develop, 67- Staff mem, Nat. Bur. Econ. Res, 62- U.S.A.A.F, 42-46. Am. Econ. Asn; Royal Econ. Soc. International and intertemporal comparison of income consumption and prices; international economics; commercial policy. Publ: Domestic interests and international obligations; Structure of income; co-auth, National products and the purchasing power of currencies. Address: Dept. of Economics, University of Pennsylvania, Philadelphia, Pa. 19096.

KRAWIEC, PROF. THEOPHILE STANLEY, b. Central Falls, R.I, May 14, 13; m. 37; c. 2. PSYCHOLOGY. B.S, Colby Col, 35; M.Sc, Brown, 37; Ph.D. (psychol), N.Y. Univ, 45. Asst. prof. PSYCHOL, Oregon State, 40-44; from assoc. prof. to PROF, SKIDMORE COL, 45-, CHMN. DEPT, 48-, acting chmn. dept, 48. Fulbright lectr, Egypt, 53-54; vis. prof, La. State, 64. Psychol. Asn.(ed. Newsletter, div. 2, 67-). Comparison of learning and retention of materials presented visually and auditorially. Publ: Beginning psychology; co-auth, Systems and theories of psychology, Holt, rev. ed, 68. Address: Dept. of Psychology, Skidmore College, Saratoga Springs, N.Y. 12866.

KREAGER, DR. H(ENRY) DEWAYNE, b. Alexandria, Minn, July 25, 12; m. 41; c. 2. ECONOMICS, PUBLIC ADMINISTRATION. A.B, Washington State, 34, fel, 34-35, A.M, 35; Duke, 35-36; Littauer fel, Harvard, 38-39, Ph.D, 47. Asst, Duke, 35-36; dir. field opers, surplus mkt. admin, U.S. Dept. Agr, 39-41; asst. to dir, Bd. Econ. Warfare, 41-45; dir. community action adv. serv, Nat. Housing Agency, 46-47; asst. dir. for. serv. inst, U.S. Dept. State, 47-48; exec. secy, Nat. Security Resources Bd, 48-50; exec. officer, Off. Defense Mobilization & President's Nat. Adv. Bd. on Mobilization Policy, 51-53; INDUST. ECON. CONSULT, 53- Lectr, Catholic Univ, 49-55. V.chmn, Econ. Panel, 54-; dir, State Dept. Commerce & Econ. Develop, Wash, 57-60; cmnr, Seattle World's Fair, 60-62; mem. bd. regents, Washington State Univ, 63-, pres, bd, 67-68. Mem. bd. dirs, Puget Sound Mutual Savings Bank, 63-; Pacific Northwest Bell Tel. Co, North. Life Ins. Co. & Wash. Natural Gas Co, 64-; Sicks Rainier Brewing Co, 67- Asn. Bus. Econ. Industrial economics; economic growth. Address: 20th Floor, Exchange Bldg, Seattle, Wash. 98104.

KRECH, PROF. DAVID, Psychol, see 11th ed, Phys. & Biol. Vols.

KREEZER, DR. GEORGE L(AWRENCE), b. Perth Amboy, N.J, Sept. 22, 02; m. 46; c. 1. PSYCHOLOGY. A.B, Cornell, 24, Ph.D.(exp. psychol), 28. Asst. psychol, Cornell, 26-27, instr, 27-30; Nat. Res. Coun. fel. biol, Berlin, 30-31; Sorbonne, 31-32; Merriam res. fel, Cornell, 32-33, asst. prof. psychol, 38-43; res. assoc, Training Sch, Vineland, N.J, 33-38; staff mem, radiation lab, Mass. Inst. Tech, 43-46; Guggenheim fel, Princeton & Inst. Adv. Study, 46-47; assoc. prof. psychol, Washington (St. Louis), 48-53, prof, 53-65; HEAD VISUAL PERCEPTION LAB, BIO-TECH. GROUP, LOCKHEED MISSILES & SPACE CO, 65- Coop. ed, Am. J. Psychol, 40- Mem, bd. ed. spec. sch. dist, St. Louis Co, 60-65. Fel. Psychol. Asn; Acoustical Soc; fel. Asn. Ment. Deficiency; Optical Soc. Human engineering; mathematical representation of psycho-biological systems by system-functions; visual perception and simulation; optical data processing; mathematical representation of behavioral systems and functions; experimental psychology. Publ: Luminous appearances, J. Gen. Psychol, 30; Servo-theory, In: Electronic instruments, McGraw, 48; Visual acuity as a function of optical distance, Lockheed Tech. Reports, 66. Address: Lockheed Missiles & Space Co, Group 55-60, Bldg. 151, Sunnyvale, Calif. 94088.

KREGER, PROF. H(OWARD) RANDALL, Finance, Econ, see 10th ed, Soc. & Behav. Vols.

KREIDER, DEAN CARL, b. Wadsworth, Ohio, Sept. 26, 14. INTERNATIONAL RELATIONS. A.B, Goshen Col, 36; A.M, Princeton, 38, Ph.D, 41; London, 38-39. Instr. & asst. prof, GOSHEN COL, 40-44, DEAN, 44-, acting pres, 50-51. Exten. lectr, Indiana, 41-45; coordinator, N. Cent. Asn. Cols. & Sec. Schs, 48-51; dean col. lib. arts, Int. Christian Univ, Tokyo, 52-56; Fulbright lectr, Haile Selassie, 63-64. Ed, N.Cent. Asn. Newsletter, 60-62. Mem, adv. coun, Danforth Found, 58-61; chmn. cmt. lib. arts, N.Cent. Asn. Cols, 64-, mem. steering cmt, cmn. res. & serv, 66- Econ. Asn. International commercial policy; British and American commercial policy; the Anglo-American trade agreement. Address: Goshen College, Goshen, Ind. 46526.

KREIDER, DR. LAWRENCE EARL, b. South Whitley, Ind, May 11, 22; m. 43; c. 4. ECONOMICS, BUSINESS ECONOMICS. Ph.D.(econ), Purdue, 53. Economist, Fed. Reserve Bank, St. Louis, Mo, 53-56; from economist to secy, Am. Bankers Asn, N.Y, 56-63; economist & asst. v.pres, Irving Trust Co, N.Y, 63-66; ASSOC. PROF. BUS. ECON. & STATE ECONOMIST, INDIANA UNIV. 66- Dir. Ind. Lawrence Bank & Trust Co. 67-; consult, Ind. State Parks Div, 67- U.S.A, 42-65, Lt. Col. Finance Asn; Econ. Asn; Acad. Polit. Sci; Water Works Asn. Credit to facilitate needed adjustments in rural areas; long term trends affecting financial institutions; asset-liability management for banks; foreign trade development. Address: Dept. of Business Economics, Indiana University School of Business, Bloomington, Ind. 47401.

KREIDLE, PROF. JOHN R(AYMOND), b. Grove City, Pa, Nov. 19, 29; m. 58; c. 2. BUSINESS FINANCE. B.S, Grove City Col, 51; M.B.A, Miami (Ohio), 53; Ph.D.(finance), Ohio State, 59. Asst. prof. FINANCE, Arkansas, 58-61; assoc. prof, Parsons Col, 61-63; PROF, NORTHERN ILLINOIS, 63- Chartered financial analyst. Consult, Participating Annuity Life Ins. Co, 60-61. U.S.A, 52-54, Res, 54-, 1st Lt. Econ. Asn; Finance Asn. Investments; personal and consumer finance. Publ: Co-auth, Illinois export activity, North. Ill. Univ. & State of Ill, 66; auth, Installment credit expansion and rising prices, Bus. Reports, 67; co-auth, Export: why or why not, Bus. & Soc, 67. Address: 736 Hillcrest Dr, DeKalb, Ill. 60115.

KREILKAMP, DR. KARL, b. Wausaukee, Wis, July 11, 12; m. 39; c. 8. POLITICAL SCIENCE, PHILOSOPHY. A.B, Minnesota, 35; A.M, Catholic Univ, 37, Ph.D.(philos), 39. Instr. philos, Incarnate Word Col, 40-44; Notre Dame, 46-48; asst. prof, 48-51, assoc. prof, 51-58; staff mem. soc. sci, Inst. Defense Anal, 58-64; STAFF ASSOC, PLANNING, NAT. SCI. FOUND, 64-, consult, 64. U.S.N.R, 44-46, Lt. Philosophy of law and government; interaction of science, value, culture and policy; theory and forms of knowledge. Publ: Foundations of Thomistic jurisprudence, Catholic Univ, 39; Dean Pound and the natural law, Fordham Law Rev, 49; Weapons, machines, and freedom, Rev. of Polit, 61. Address: 3609 Norton Place N.W, Washington, D.C. 20016.

KREIN, DR. THEODORE JAMES, Indust. Psychol, see 10th ed, Soc. & Behav. Vols.

KREININ, PROF. MORDECHAI ELIAHU, b. Tel-Aviv, Israel, Jan. 20, 30; nat; m. 56; c. 2. ECONOMICS. B.A, Tel-Aviv, Israel, 51; M.A, Michigan, 52, univ. scholar, 52-53, Rackham fel, 53-54, Ph.D.(econ), 55. Asst. ECON, Michigan, 52-53, asst. study dir, surv. res. center, 54-55, study dir, 55-57, lectr, univ, 56-57; asst. prof, MICH. STATE, 57-59, assoc. prof, 59-61, PROF, 61-, acting chmn. dept, 67-68. Am. Acad. Arts & Sci. grant, 59; Soc. Sci. Res. Coun. fel, 59; Ford Found. fel, 60-61; Mich. State Int. Progs. fel, 61-62; Nat. Sci. Found. res. fel, 64-67; Rockefeller Found. res. fel, 66. Consult, Coun. For. Rels, N.Y, 64-66; U.S. Dept. Commerce, 65-66; U.S. Maritime Cmn, 66-67. Israeli Army, 48-50. Econ. Asn. National economies; regional economic integration; technical assistance; international economic and financial relations. Publ: Israel and Africa—a study in technical cooperation, Praeger, 64; Alternative commercial policies—their effects on the American economy, Mich. State Univ. Bur. Econ. Res, 67. Address: Dept. of Economics, Michigan State University, East Lansing, Mich. 48823.

KREISMAN, DR. LEONARD T(HEODORE), Am. Hist, Econ, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KREITZER, DR. DONALD J(EAN), b. Chicago, Ill, Feb. 15, 25; m. 53. POLITICAL SCIENCE. B.A, Dayton, 46; M.A, Cincinnati, 48; Ph.D.(polit. sci), Ohio State, 55. ASST. PROF. POLIT. SCI, Col. of St. Thomas, 55-59; Marquette, 59-61; NEW MEXICO STATE, 61- Polit. Sci. Asn. Publ: Problems of the origin of political authority, Philos. Studies. Address: Box 541, University Park, N.Mex. 88001.

KREITZER, DR. S(HELDON) F(RED), b. Los Angeles, Calif, July 29, 36. PSYCHOLOGY. B.A, California, Los Angeles, 58; M.A, Iowa, 61, Ph.D.(personality develop. children), 63. U.S. Pub. Health Serv. fel. clin. psychol, Univ. Chicago, 63-64; staff psychologist, Camarillo State Hosp, Calif, 64-66, acting sr. psychologist, children's div, 66-67; DIR, LAB. FOR LIVING, 67- Instr. psychol, exten. div, California, Santa Barbara, 66. Private practice, 66-; staff psychologist, Camarillo State Hosp, 67- Consult, Headstart Proj, 66-67. Psychol. Asn; Soc. Study Child Develop. Behavior modification; weight and smoking control; sexual functioning; child development. Address: 18075 Ventura Blvd, Encino, Calif. 91316.

KREMEN, PROF. IRWIN, b. Chicago, Ill, June 5, 25; m. 54; c. 2. PSYCHOLOGY. B.A, New Sch. Soc. Res, 55; U.S. Pub. Health Serv. fel, Harvard, 55-56, univ. fels, 56-58, Fels Found. fel, 59-60, M.A, 60, U.S. Pub. Health Serv. fel, 60-61, Ph.D.(clin. psychol), 61. Asst. soc. rels, Harvard, 56-57; intern clin. psychol, Mass. Ment. Health Center, Boston Psychopath. Hosp, 58-59; ASST. PROF. PSYCHOL, Mich. State, 61-63; DUKE, 63- Ed. consult, studies in hypnosis proj, Mass. Ment. Health Center, 59-61; consult, Vet. Admin. Hosp, Durham, N.C, 64-; Res. Triangle Inst, 65-; Pinehurst Community Ment. Health Center, 67- Psychol. Asn; Soc. Psychophysiol. Res. Clinical and personality psychology; process of dreaming; relationship between autonomic responsivity and its perception; influence of training on perception. Publ: Co-auth, Re-examination of Rubin's figural aftereffect, J. Exp. Psychol; Autonomic feed-back: a correlation study, J. Personality; Response to threat: relation among verbal and physiological indices, Psychol. Monogr. Address: Dept. of Psychology, Duke University, Durham, N.C. 27706.

KRENDEL, PROF. EZRA S(IMON), b. New York, N.Y, Mar. 5, 25; m. 50; c. 3. ENGINEERING PSYCHOLOGY. B.S, Brooklyn Col, 45; fel. & Sc.M, Mass. Inst. Tech, 47; A.M, Harvard, 49. Mgr. eng. psychol. lab, res. & develop. labs, Franklin Inst, 49-63, tech. dir. opers. res, 63-66; PROF. OPERS. RES. & STATIST, PENNSYLVANIA, 66-, DIR. MGT. SCI. CENTER, 67- Guest lectr, Mass. Inst. Tech; Princeton; Purdue; Columbia; Pennsylvania; N.Y. Univ. Consult, govt, indust. labs. & univs. Levy gold medal, Franklin Inst, 60. Fel. Psychol. Asn. Opers. Res. Soc; fel. Inst. Elec. & Electronics Eng; Brit. Ergonomics Res. Soc. Human control dynamics and generating mathematical models for human behavior in visual search, tracking, decision making and power output; electroencephalogram analysis; command-control problems and man-machine systems design. Publ: Co-auth, A servomechanisms approach to skill development, Vol. 269 & Manual control of single-loop systems, Vol. 283, numbers 1 & 2, J. Franklin Inst; The man-machine system concept, Proc. Inst. Radio Engrs, Vol. 50, number 5. Address: Management Science Center, University of Pennsylvania, Philadelphia, Pa. 19104.

KREPS, PROF. CLIFTON H(OLLAND), JR, b. Augusta, Ga, May 12, 20; m. 44; c. 3. FINANCE. B.A, Col. William & Mary, 41; A.M, North Carolina, 42; univ. fel. & Ph.D.(econ), Duke, 48. Asst. prof. econ, Denison, 47-49; from monetary economist to chief financial & trade statist. div, Fed. Reserve Bank, N.Y, 49-55; WACHOVIA PROF. BANKING, NORTH CAROLINA, 55- Sr. assoc, Carter H. Golembe Assocs, D.C, 67- Ed. consult, Am. Bankers Asn, 61-; res. consult, Fed. Reserve Bank Richmond, 62-64. Mem, finance cmt, U.S. Chamber of Commerce, 62-67, Nat. Coun. Trends & Perspectives, 67- AAAS; Finance Asn; Econ. Asn. Commercial and central banking; monetary policy; money and capital markets; business financial management. Publ: Co-auth, Improving competition for funds between commercial banks and thrift institutions, Univ. North Carolina, 63; Money, banking and monetary policy, Ronald, 2nd ed, 67; auth, Character and competitiveness of local banking, Fed. Reserve Bank Richmond, 64. Address: Graduate School of Business Administration, University of North Carolina, Chapel Hill, N.C. 27514.

KREPS, PROF. JUANITA MORRIS, b. Lynch, Ky, Jan. 21, 21; m. 44; c. 3. ECONOMICS. A.B, Berea Col, 42; fel, Duke, 43-45, M.A, 44, Ph.D, 48. Instr. ECON, Denison, 45-46, asst. prof, 47-50; lectr, Hofstra Col, 52-54; Queens Col.(N.Y), 54-55; vis. asst. prof, DUKE, 55-58, asst. prof, 58-61, assoc. prof, 62-67, PROF, 67- Katherine Price Bryan vis. lectr, Womans Col, North Carolina, 62; Ford faculty fel, 63-64. Mem. bd. dirs, Nat. Coun. Aging, 64-; chmn. awards to Am. women, Am. Asn. Univ. Women. Del, White House Conf. Aging, 61. Econ. Asn; Geront. Soc. Manpower; retirement and income-maintenance; social insurance; growth in leisure in the United States and Western Europe; lifetime allocation of work and income. Publ: Co-auth, Principles of economics; ed, Employment, income and retirement problems of the aged, Duke, 63; Technology, manpower and retirement policy, World, 66. Address: Dept. of Economics, Duke University, Durham, N.C. 27706.

KREPS, PROF. LESLIE R, Speech, see 5th ed. Dir. of Am. Scholars, Vol. II, Eng, Speech & Drama.

KREPS, PROF. THEODORE J(OHN), b. Prinsburg, Minn, Jan. 13, 97; m. 19; c. 6. ECONOMICS. Calvin Col, 14-17; A.B, Colorado, 20; LL.D, 57; A.M, Harvard, 24, Frederick Sheldon fel, 26, Ph.D, 28. Tutor hist, govt. & econ. & instr. econ, Harvard & Radcliffe Col, 25-30; assoc. prof. statist, GRAD. SCH. BUS, STANFORD, 30-35, assoc. prof. BUS. ECON, 35-40, PROF, 40- Laura Spelman Rockefeller traveling fel, 28-29; chief statist. sect, res. & planning div, Nat. Recovery Admin, 34-35; adv, Temporary Nat. Econ. Cmt, 39-40; sr. specialist bus. orgn, Legis. Ref. Serv, Library Cong, 47-60; vis. distinguished prof, New Mexico, 66-67. Consult, Works Progress Admin, 35-36; Nat. Resources Cmt, 37; Investors Diversified Servs, 49-53; State Dept. Finance, Calif, 49-; antitrust div, U.S. Dept. Justice, 44-45. Chmn. coord. cmt, Cent. Statist. Bd. & Works Progress Admin, 35; staff dir, Joint Cmt. on Econ. Report, 49-51; adv. to Am. delegation, Conf. Int. Labor Off, Switz, 37; chief econ. adv, Bd. Econ. Warfare, 42-44. U.S.A, 17-19, Lt. Econ. Asn; Acad. Polit. & Soc. Sci; Royal Econ. Soc. Antitrust problems; stabilization of high-level employment and national income; chemical economics. Publ: Some measurements of the social performance of business; Taxes and the human factor; Evaluation of antitrust policy. Address: 744 Mayfield Ave, Stanford, Calif. 94305.

KRESKE, PROF. RICHARD D(ANIEL), b. Cleveland, Ohio, Feb. 3, 15; m. 47. GEOGRAPHY. B.S, Western Reserve, 37; M.S, Syracuse, 39; fel, Washington (St. Louis), 39-41. Asst. GEOG, Syracuse, 37-39; instr, Radford State Teachers Col, 40; Va. Polytech. Inst, 41-42; from asst. prof to PROF. & CHMN. DEPT, MIAMI (FLA), 46- U.S.N, 42-46. Asn. Am. Geog. Cartographic techniques; industrial raw materials; political geography. Address: Box 8152, University of Miami, Coral Gables, Fla. 33124.

KRESKY, DR. EDWARD M, b. Brooklyn, N.Y, Aug. 15, 24; m. 52; c. 2. PUBLIC ADMINISTRATION. B.A, Cornell, 48, M.P.A, N.Y. Univ, 50, Ph.D, 60. Personnel officer, State Rent Cmn, N.Y, 52-54; asst. to personnel dir, City of New York, 54-57; exec. asst, N.Y. State Constitutional Convention Cmn, 57-59; assoc. dir, N.Y. State Cmn. Constitutional Revision & Simplification, 59-61; prog. assoc, Governor's Off, 61-65; SECY, METROP. TRANSPORTATION AUTHORITY, 65- Lectr, Brooklyn Col, 55-57; Hunter Col, 57-59. U.S.A, 43-46. Soc. Pub. Admin; Polit. Sci. Asn; Acad. Polit. & Soc. Sci. Public management; state and local government. Publ: Role of New York State in development of power from the St. Lawrence River; co-auth, Salient issues of constitutional revision; How to study a state constitution, Nat. Munic. League, 62. Address: 245 E. 63rd St, New York, N.Y. 10021.

KRESS, DR. ANDREW J(OHN), Econ, see 10th ed, Soc. & Behav. Vols.

KRESS, DR. GERARD C(LAYTON), JR, b. Buffalo, N.Y, July 10, 34; m. 57; c. 2. EDUCATIONAL PSYCHOLOGY. B.A, Rochester, 56; Ph.D.(psychol), State Univ. N.Y. Buffalo, 63. Assoc. res. scientist, AM. INSTS. RES, 62-66, RES. SCIENTIST, 66- Lectr, dent. sch, Pittsburgh, 67- U.S.A.R, 57-63. Psychol. Asn; Ed. Res. Asn. Educational research; training; learning; programmed instruction. Publ: Co-auth, Individualizing instruction through pacing procedures, Audiovisual Commun. Rev, 65; auth, A comparison of two strategies for individualizing fixed-paced programmed instruction, Am. Ed. Res. J, 66 & A study of social facilitation during programmed instruction, Proc. Am. Psychol. Asn, 67. Address: American Institutes for Research, 135 N. Bellefield Ave, Pittsburgh, Pa. 15213.

KRESS, DR. PAUL F(REDERICK), b. Stoughton, Wis, Sept. 10, 35; m. 59. POLITICAL SCIENCE. B.S, Wisconsin, 56, M.S, 58; Soc. Sci. Res. Coun. fel, California, Berkeley, 62-63, Ph.D.(polit. sci), 64. ASST. PROF. POLIT. SCI, NORTHWESTERN, 64- Polit. Sci. Asn. Political sociology; philosophy of science. Publ: Self system and significance: reflections on Professor Easton's political science, Ethics, 10/66. Address: Dept. of Political Science, Harris Hall, Northwestern University, Evanston, Ill. 60201.

KRESS, DR. ROY A(LFRED), b. Elmira, N.Y, Oct. 4, 16; m. 40; c. 3. PSYCHOLOGY. B.S, Pa. State Teachers Col, 38; Ed.M, Temple, 49, Ph.D.(psychol), 56. Supvr. reading anal. div, Temple, 49-55, lectr. psychol. of reading, 50-55; ed. dir, Shady Brook Schs, Inc, 55-58; assoc. prof. ed. & dir. reading clin, Syracuse, 58-63; PROF. PSYCHOL. & DIR. READING CLIN, TEMPLE, 63- Dir, Children's Res. Found, Tex, 55-58. Consult, 52-U.S.M.C, 43-46. Psychol. Asn; Ed. Res. Asn. Psychology of reading; emotional disturbances and learning problems in children. Publ: That all may learn to read, Syracuse Univ, 60; co-auth, The reading experience and development series, Am. Book Co, 68 and Informal reading inventories, Int. Reading Asn, 65. Address: Reading Clinic, Dept. of Psychology, Temple University, Philadelphia, Pa. 19122.

KRESS, DR. WARREN D(ONALD), b. St. Paul, Minn, Apr. 15, 21; m. 61; c. 1. GEOGRAPHY. B.A, Minnesota, 46, Ph.D.(geog), 62. Instr. GEOG, Minnesota, 48-51; St. Cloud State Col, 55-56; asst. prof, N.DAK. STATE, 57-63, ASSOC. PROF, 63-, acting chmn. div. natural sci, 67-68. Summer vis. asst. prof, Minnesota, 62. A.U.S, 42-46, U.S.A.R, 46-64, Maj. Asn. Am. Geog; Soc. Hist. Tech. Settlement geography; regional geography of the upper Midwest. Address: Geography Laboratory, North Dakota State University, Fargo, N.Dak. 58102.

KRETSCHMER, DR. KENNETH S, b. Pueblo, Colo, Sept. 18, 31. STATISTICS, MATHEMATICS. B.S, Stanford, 53, M.S, 55; Ph.D.(math), Carnegie Inst. Tech, 58. Consult. opers. res, Pittsburgh, 57-58; math. economist, Imp. Oil, Ltd, 58-61; Mobil Int. Oil Co, N.Y, 61-62; mgr. res. methods develop, Gen. Elec. Co, N.Y, 62-66; PRES, KRETSCHMER ASSOCS, INC, 66- Lectr, Toronto, 59-60. Mem, Opers. Res. Coun. City New York, 66- Math. Soc; Inst. Mgt. Sci; Opers. Res. Soc; Economet. Soc. Use of mathematics and statistics in social sciences and business. Address: 55 Central Park West, New York, N.Y. 10023.

KRIDER, PROF. MARY A(LTHEA), b. Amy, Mo, May 14, 06; m. 41; c. 3. EDUCATIONAL PSYCHOLOGY. A.B, Nebraska, 27; Ed.M, Oklahoma, 41; univ. fel, Wayne State, 56-58, Nat. Soc. Crippled Children & Adults grant, 58-59; Ed.D, 59. Teacher, high sch, Okla, 39-44; asst. to consult. psychiatrist, pub. schs, 44-51; teacher, jr. high sch, Ore, 51-54; instr. spec. ed, State Syst. Higher Ed, 52-54; asst. prof. ed, Brigham Young, 54-56, ed. psychol, 58-59, assoc. prof, 59-62; ASSOC. PROF. PSYCHOL. & MEASUREMENTS & ASST. DIR. ED. PSYCHOL. CLIN, NEBRASKA, 62- Off. Econ. Opportunity grant, 65-66. Secy-treas. div. teacher ed, Int. Coun. Except. Children, 60-63. Psychol. Asn; Coun. Excep. Children. Study of parents attitudes toward their handicapped children; comparative study of the self-concepts of crippled and non-crippled children. Publ: The psychiatrist comes to school, Okla. Teacher; co-auth, An evaluation of head start preschool enrichment programs as they affect the intellectual ability, the social adjustment and the achievement level of five year old children enrolled in Lincoln, Nebraska, Univ. Nebraska Res. Report, 67. Address: Dept. of Educational Psychology, University of Nebraska, Lincoln, Nebr. 68508.

KRIEBEL, DR. CHARLES HOSEY, b. Tarrytown, N.Y, Nov. 6, 33; m. 61; c. 2. MANAGEMENT SCIENCE. B.S, Pennsylvania, 59, M.A, 61; Ph.D. (indust. admin), Mass. Inst. Tech, 64. Instr. INDUST. ADMIN, Pennsylvania, 59-61, asst. prof, Mass. Inst. Tech, 63-64; GRAD. SCH. INDUST. ADMIN, CARNEGIE-MELLON UNIV, 64-67, ASSOC. PROF, 67- Consult, Rand Corp, Calif, 62-63; McKinsey & Co, Inc, N.Y, 64-; adv. consult, cmt. econ, Fulbright-Hayes Prog, Wash, D.C, 65- Sig.C, U.S.A, 54-62, Sgt. AAAS; Inst. Mgt. Sci; Opers. Res. Soc. Am; Asn. Comput. Mach; Economet. Soc; Statist. Asn. Management information systems; industrial management; computer systems; operations research and applied mathematics; statistical decision theory; production and operations management. Publ: Co-efficient estimation in quadratic programming models, Mgt. Sci, 4/67; co-auth, An empirical study of scheduling decision behavior, J. Indust. Eng, 6/67; auth, Quadratic teams, information economics, and aggregate planning decisions, Econometrica, 7/68. Address: Graduate School of Industrial Administration, Carnegie-Mellon University, Pittsburgh, Pa. 15213.

KRIEBEL, PRES. HENRY A(UGUST), b. Warren, Pa, Feb. 9, 09; m. 42; c. 1. ACCOUNTING. B.S, Lehigh, 32, M.A, 37; Ph.D.(acct), Columbia, 52. Instr. acct, Lehigh, 39-42; chmn. div, BABSON INST. BUS. ADMIN, 46-61, PRES, 61- Consult, Watertown Arsenal, U.S. Dept. Army, 54- U.S.N.R, 42-46, Lt. Comdr. Am. Acct. Asn; Nat. Asn. Acct. Fixed asset accounting; effects of price level change. Address: 56 Whiting Rd, Wellesley, Mass. 02181.

KRIEDT, DR. PHILIP H, Psychol, see 10th ed, Soc. & Behav. Vols.

KRIEGEL, VITUS A, O.S.B, b. St. Mary's, Pa, Feb. 7, 98. POLITICAL SCIENCE. A.B, St. Vincent Col, 22, A.M, 24; Cincinnati Law Sch, 34-36; LL.B, Catholic Univ, 37. PROF. POLIT. SCI. & BUS. LAW, ST. VINCENT COL, 37-, HEAD DEPT. POLIT. SCI, 45-, trustee, Col, 43-56. Rector, St. Vincent Scholasticate, Pa, 38-50. Labor law; local government; divinity studies. Address: Dept. of Political Science, St. Vincent College, Latrobe, Pa. 15650.

KRIEGER, PROF. ALEX D(ONY), b. Duluth, Minn, Dec. 11, 11; m. 44; c. 2. ANTHROPOLOGY. B.A, California, 36; M.A, Oregon, 39; D.Sc, Nat. Univ. Mexico, 55. Res. assoc, Texas, 41-43, archaeologist, 43-47; res. scientist, 47-56; dir, Riverside Munic. Mus, Calif, 56-61; RES. PROF. ANTHROP, WASHINGTON (SEATTLE), 61- Collab, Nat. Park Serv, 52-55; Nat. Sci. Found. sr. fel, 61. Consult, Smithsonian Inst, 47-52. Viking Fund medal & award, 48. Anthrop. Asn; Soc. Am. Archaeol.(asst. ed, 50-58, v.pres, 55). Archaeology of the New World; Pleistocene geology and paleontology. Publ: Co-auth, George C. Davis Site, Cherokee County, Texas, Soc. Am. Archaeol. & Midland discovery: a report on the Pleistocene human remains at Midland, Texas; Culture complexes and chronology in northern Texas. Address: Dept. of Anthropology, University of Washington, Seattle, Wash. 98105.

KRIEGER, H(ERBERT) W(ILLIAM), Anthrop, see 10th ed, Soc. & Behav. Vols.

KRIEGER, DR. MARGERY HAYES, b. Boston, Mass, Oct. 24, 25; m. 44. PSYCHOLOGY. B.A, Texas, 46, Ph.D.(psychol), 55. Clin. psychologist, Texas, 52-56; Patton State Hosp, Calif, 57-59; Vet. Admin. Hosp, 59-64; acting asst. prof, DEPT. PSYCHOL, WASHINGTON (SEATTLE), 64-66, ACTING ASSOC. PROF, 66- Clin. instr, sch. med, Washington (Seattle), 59-63. Consult, Seattle Cent. Area Ment. Health Center, 68; Vet. Admin. Psychol. Training Prog, 68. Psychol. Asn. Antecedents and correlates of behavioral competence; social and situational factors in deviant behavior; culture and personality. Publ: A control for social desirability in a semantic differential, Brit. J. Soc. & Clin. Psychol, 64; co-auth, A study of group processes in the small therapeutic group, 64 & Patient group membership and outcome of psychiatric hospitalization, 66, Int. J. Group Psychother. Address: 3025 N.E. 181st St, Seattle, Wash. 98155.

KRIEGMAN, DR. GEORGE, Psychiat, see 11th ed, Phys. & Biol. Vols.

KRIESBERG, DR. LOUIS, b. Chicago, Ill, July 30, 26; m. 59; c. 2. SOCIOLOGY. Ph.B, Chicago, 47, M.A, 50, Marshall Field fel, 50-51, Ford Found. scholar, 52-53, Ph.D.(sociol), 53. Instr. sociol, Columbia, 53-56; Fulbright res. scholar, Cologne, Germany, 56-57; sr. fel. law & behav. sci, law sch, Chicago, 57-58, sr. study dir, nat. opinion res. center, 58-62; assoc. prof. sociol. & anthrop, SYRACUSE, 62-67, PROF. SOCIOL, 67-, RES. ASSOC, YOUTH DEVELOP. CENTER, 62- Sociol. Asn; Asn. Pub. Opinion Res; World Asn. Pub. Opinion Res; Soc. Study Social Probs. Social stratification; formal organizations; sociology of international relations. Publ: Ed, Social processes in international relations, Wiley, 68; auth, Bases of occupational prestige: the case of dentists, Am. Sociol. Rev; The relationship between socio-economic rank and behavior, Soc. Probs, spring 63. Address: Youth Development Center, Syracuse University, Syracuse, N.Y. 13210.

KRIESBERG, DR. MARTIN, b. Chicago, Ill, Mar. 22, 17; m. 45; c. 5. SOCIAL SCIENCE. B.Sc, Northwestern, 40; Ph.D.(govt), Harvard, 47. Res. analyst, War Prod. Bd, 42-44; res. assoc, Michigan, 47-48; res. dir, Ill. Civic Surv, 48-49; asst. chief procedures sect, U.S. Bur. Census, 49-51; head mkt-mgt. studies, U.S. Dept. Agr, 51-60; consult. for. governments, Ford Found, 61-63; DIR. PROG. PLANNING & EVAL, INT. AGR. DEVELOP. SERV, U.S. DEPT. AGR, 64- Adj. prof, American Univ, 50-; expert, UN Tech. Admin, Hebrew Univ, 56- Adv. U.S. del, Orgn. Am. States & Agr. Secy. Freeman on study trips to Brazil & Venezuela, 66. Soc. Int. Develop; Soc. Pub. Admin. Publ: Ed, Public administration in developing countries, Brookings Inst, 65; auth, Teaching public administration in underdeveloped countries, Int. Rev. Admin. Sci; Public administration for development, Am. Soc. Pub. Admin, 6/65. Address: 5805 Tanglewood Dr, Bethesda, Md. 20034.

KRIMSKY, DR. MARTIN LOUIS, b. New York, N.Y, Nov. 22, 25; m. 51; c. 4. PSYCHOLOGY. B.S, City Col. New York, 49, M.S, 50; Ph.D, Oklahoma, 60. Intern psychol, Elgin State Hosp, Ill, 50-51, staff psychologist, 51-52; clinician, univ. guid. serv, Oklahoma, 53-54; psychologist, Pauls Valley State Sch, 54-60; DIR, CARTER COUNTY GUID. CLIN, 60- U.S.A, 43-46. Psychol. Asn. Projective techniques; psychotherapy. Publ: Szondi test in a psychological battery, J. Proj. Tech; Application of the shadow method in Szondi test interpretation; Szondi profile followed by an epileptic seizure, Szondi Newsletter. Address: 1204 W. Main, Ardmore, Okla. 73401.

KRING, DEAN FREDERICK S(TEVENS), b. Davidsville, Pa, Dec. 10, 19; m. 46. PSYCHOLOGY. B.S, Millersville State Col, 41; M.Ed, Pittsburgh, 50, Ed.D, 55. Teacher, high sch, Pa, 41-53, guid. counsr, 54-56; admin. asst, pub. sch, 53-54; PROF. PSYCHOL, GROVE CITY COL, 56-, DEAN MEN, 58- U.S.A, 41-46, Res, 46-62, Maj. Comp. Ed. Soc. Psychometrics; vocational and adjustive counseling; clinical hypnosis. Address: 407 E. Washington Blvd, Grove City, Pa. 16127.

KRINSKY, DR. LEONARD WILLIAM, b. Philadelphia, Pa, May 21, 26; m. 50; c. 2. CLINICAL PSYCHOLOGY. A.B, Temple, 48; M.A, Arkansas, 49; Ph.D, Adelphi Col, 57. Intern psychol, South Oaks Hosp, Amityville, N.Y, 49-50, staff psychologist, 50-54, chief psychologist, 54-57; sch. psychologist, Bd. Coop. Servs, Patchoque, 57-59; CHIEF PSYCHOLOGIST, SOUTH OAKS HOSP, AMITYVILLE, 59- Private practice, 57-; lectr, Queens Col.(N.Y), 58-60. Consult, div. voc. rehab, State Dept. Ed, N.Y, 57-; South Oaks Hosp, Amityville, 59. Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. U.S.N, 44-46. Psychol. Asn. Psychotherapy with alcoholics employing LSD; attitudes of parents of schizophrenics. Publ: LSD as an adjunct to psychotherapy with alcoholics, J. Psychol. Address: 10 Stillwater Ave, Massapequa, N.Y. 11758.

KRIS, DR. E(LIZABETH) M(ARTHA) CHRISTINE, Psychophysiol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KRISHNAIAH, DR. PARUCHURI RAMA, Statist, see 11th ed, Suppl. IV to Phys. & Biol. Vol.

KRISLOV, PROF. JOSEPH, b. Cleveland, Ohio, Aug. 14, 27; m. 56; c. 1. ECONOMICS. B.S.Ed, Ohio, 49; M.A, Western Reserve, 50; Ohio State, 51; Ph.D.(econ), Wisconsin, 54. Asst. prof. econ, Western Reserve, 54-55; dir. res, Am. Fedn. Labor-Cong. Indust. Orgns, Ohio, 55-57, Ky, 57-58; supvry soc. ins. res. analyst, Soc. Security Admin, 58-64; PROF. ECON, KENTUCKY, 64- Consult, Off. Econ. Opportunity, 65-66; Soc. Security Admin, 65-67. Mem. arbit. panel, Fed. Mediation & Conciliation Serv, 65- U.S.A.A.F, 45-47. Econ. Asn; Indust. Rels. Res. Asn. Union growth and development; mediation and arbitration; labor relations in government; private pension plans; social insurance and welfare. Publ: State and local government retirement systems, U.S. Govt, 66; A study of pension funding, Monthly Labor Rev, 6/66; New organizing by unions, 1949-1966, Indust. & Labor Rels. Rev, 10/67. Address: Dept. of Economics, University of Kentucky, Lexington, Ky. 40506.

KRISLOV, PROF. SAMUEL, b. Cleveland, Ohio, Oct. 5, 29; m. 51; c. 4. POLITICAL SCIENCE. B.A, N.Y. Univ, 51, Pennfield fel, univ. scholar. & M.A, 52; Class of 1883 fel, Princeton, 52-54, Ph.D, 55. Instr. polit. sci, Vermont, 55; Hunter Col, 55-56; from asst. prof. to assoc. prof. govt, Oklahoma, 56-61; assoc. prof. POLIT. SCI, Mich. State, 59-64; MINNESOTA, MINNEAPOLIS, 64-66, PROF, 66- Asst, N.Y. Joint Legis. Cmn. Interstate Coop, 55-56; Soc. Sci. Res. Coun. grants, 58 & 61; Nat. Inst. Ment. Health res. grant, 63-64; U.S. Off. Ed. curriculum develop. grant, 65-67; Nat. Sci. Found. curriculum develop. grant, 67-68; Russell Sage resident, law & soc. sci, 66-67; vis. prof, Columbia, 66-67. Consult, U.S. Off. Ed, 65-68. Jour. ed, Law & Soc. Asn, 68- Polit. Sci. Asn. Application of behavior research to the judicial process; minority groups; government employment. Publ: The Supreme Court in the political process, 65 & The Supreme Court and political freedom, 68, Macmillan; The Negro in the federal bureaucracy, Univ. Minn, 67. Address: Dept. of Political Science, University of Minnesota, Minneapolis, Minn. 55405.

KRISTEIN, DR. MARVIN MICHAEL, b. Brooklyn, N.Y, Apr. 13, 26; m. 59. ECONOMICS. B.S.S, City Col. New York, 47, fel, 47-49; M.A, Columbia, 49; Ph.D, New Sch. Soc. Res, 55. Lectr. ECON, City Col. New York, 49-55; asst. prof, Harpur Col, 56-59, ASSOC. PROF, STATE UNIV. N.Y. STONY BROOK, 59- Fulbright grant, Netherlands Sch. Econ, 55-56; summer, Ford Found. res. fel, Yale, 58. Consult. security analyst, 66- Econ. Asn; Economet. Soc; Statist. Asn. International trade; economic development; monetary economics. Publ: Measuring the effect of benelux, Economia Internazionale. Address: Dept. of Economics, State University of New York at Stony Brook, Stony Brook, N.Y. 11790.

KRISTIANSEN, PROF. HARRY EMIL, b. Norway, Nov. 8, 18; nat; m. 59; c. 2. PSYCHOLOGY. B.S, State Univ. N.Y, 43; M.A, Columbia, 48. Asst. prof. ed. & psychol, STATE UNIV. N.Y. COL. POTSDAM, 49-50, from assoc. prof. to PROF. PSYCHOL. & CHMN. DEPT, 50- U.S.A, 42-45, 1st Lt. Psychol. Asn. Personality theory; personality evaluation. Address: Dept. of Psychology, State University of New York College at Potsdam, Potsdam, N.Y. 13676.

KRISTJANSON, DR. B(ALDUR) H(ANNES), b. Gimli, Man, July 2, 18; m. 44; c. 3. AGRICULTURAL ECONOMICS. B.S.A, Manitoba, 39; fel, Va. Polytech, 40-41, M.Sc, 41; Ph.D, Wisconsin, 49. Lectr, Saskatchewan, 44-45; asst, Wisconsin, 46-47; agr. economist, exp. sta. & assoc. prof. agr. econ, N.Dak. Agr. Col, 47-56; head, coop. & credit union sect, Can. Dept. Agr, 56-58; mem, Harvard Adv. Group to Iran, 58-59; secy, Resources for Tomorrow Conf, Can. Dept. North. Affairs & Nat. Resources, 59-65; chmn. & exec. dir. ECON. PLANNING, Man. Econ. Consult. Bd, 65-67; DEP. MINISTER, GOVT. MAN, 67-; HON. PROF. AGR. ECON, MANITOBA, 67- Chmn, North. Great Plains Tenure Cmt, 54-55. Am. Agr. Econ. Asn; Can. Agr. Econ. Soc; Int. Asn. Agr. Economists. Land settlement, tenure and credit; irrigation economies; resources development; economic planning in retarded economies. Publ: Agrarian-based development of Iran, Land Econ; Farmers home administration approach to farm credit problems, N.Dak. Exp. Sta. Bull; Land settlement in northeastern Alberta, Govt. Can. Bull. Address: Room 330, Legislative Bldg, Winnipeg 1, Man, Can.

KRISTJANSON, PROF. G. ALBERT, b. Gimli, Man, Dec. 17, 23; m. 52; c. 4. SOCIOLOGY, AGRICULTURAL ECONOMICS. B.Sc.A, Toronto, 50; M.Sc, N.Dak. State, 53; Ph.D.(sociol), Wisconsin, 67. Res. assoc. sociol, Washington State, 55-56; asst. prof, S.Dak. State, 56-59; exten. sociologist, MANITOBA, 59-62, chief econ, 62-64, asst. dir, 64-67, PROF. SOCIOL, 67- Rural Sociol. Soc; Can. Sociol. & Anthrop. Asn. Social gerontology; educational as-

pirations; population studies; social change. Publ: Co-auth, Personal adjustment among older people, S.Dak. State Univ, 58; People of Manitoba 1951-1961, 64 & Manitoba high school students and drop outs, 66, Manitoba Dept. Agr. Address: Dept. of Sociology, University of Manitoba, Winnipeg 19, Man, Can.

KRISTJANSON, DR. L(EO) F, b. Gimli, Man, Feb. 28, 32; m. 57; c. 4. ECONOMICS. B.A, Manitoba, 54, M.A, 59; Ph.D.(econ), Wisconsin, 63. Instr. hist, United Col, Winnipeg, 56-57; teaching asst. agr. econ, Wisconsin, 57-59; res. officer, Centre for Community Studies, Sask, 59-65; ASSOC. PROF. ECON, SASKATCHEWAN, 65- Am. Agr. Econ. Asn; Can. Agr. Econ. Soc; Can. Econ. Asn. Agricultural policy; public corporations; economic history. Publ: Population trends in Saskatchewan's incorporated trade centres 1926-1961, 63 & Co-auth, An evaluation of educational activities of co-operatives in Saskatchewan, 64, Centre for Community Studies. Address: Dept. of Economics, University of Saskatchewan, Saskatoon, Sask, Can.

KRISTOF, DR. FRANK S, b. New York, N.Y, Sept. 23, 17; m. 43. ECONOMICS. B.B.A, City Col. New York, 42; M.A, Columbia, 47, Ph.D, 52. Teacher, high schs, N.Y, 46-52; mkt. analyst, Fed. Housing Admin, 52-55; econ. consult, Temporary State Housing Rent Cmn, N.Y, 55-56; asst. chief housing div, U.S. Bur. Census, 56-60; dep. dir, bur. planning & prog. res, New York Housing & Redevelop. Bd, 60-63, chief, 63-67, ASST. ADMINSTR, OFF. PROG. & POLICY, NEW YORK HOUSING & DEVELOP. ADMIN, 67- Lectr, dept. planning, Columbia, 67. Consult, New York Rent & Rehab. Admin, 63; Int. Bank Reconstruct. & Develop, Econ. Mission to Thailand, 64; Nat. Cmn. Urban Probs, 67-68. Mem. housing adv. cmt, U.S. Bur. Census. U.S.A.A.F, 43-46, Capt. Econ. Asn; Statist. Asn. Housing economics. Publ: People, housing and rent control in New York City, New York City Rent & Rehab. Admin, 64; The increased utility of the 1960 housing census for planning, 2/63 & Housing policy goals and the turnover of housing, 8/65, J. Am. Inst. Planning. Address: 175 Adams St, Brooklyn, N.Y. 11201.

KRISTOF, PROF. LADIS K(RIS) D(ONABED), b. Cernauti, Rumania, Nov. 26, 18; U.S. citizen; m. 56; c. 1. POLITICAL SCIENCE. B.A, Reed Col, 55; M.A, Chicago, 56. Lectr. Russian hist, Chicago. Col, 58-59; assoc. dir, Inter-Univ. Proj. Hist. Menshevik Movement, 59-62; instr. POLIT. SCI, Temple, 62-64; res. assoc, Hoover Inst, Stanford, 64-67; ASST. PROF, SANTA CLARA, 67- Lectr, Hunter Col, 60-61. Participant, 20th Int. Cong. Geog, Eng, 64; First Int. Cong. Balkan Studies, Bulgaria, 66. Rumanian Army, 42-46. Polit. Sci. Asn; Asn. Am. Geog; Asn. Adv. Slavic Studies. Nationality problem in the Soviet Union; Russian social and political thought. Publ: Nature of frontiers and boundaries, Ann. Asn. Am. Geog; Origins and evolution of geopolitics, J. Conflict Resolution; The Russian image of Russia, Essays in Polit. Geog, 68. Address: 2225 Amherst, Palo Alto, Calif. 94306.

KRISTOFFERSON, PROF. ALFRED B(OYD), Exp. Psychol, see 11th ed, Phys. & Biol. Vols.

KRISTY, DR. NORTON F(RANK), b. Chicago, Ill, Dec. 17, 25. PSYCHOLOGY. B.A. & B.S, Illinois, 46; res. fel, London, 50-52, Ph.D.(psychol), 52. Res. assoc, Illinois, 52; assoc. soc. scientist, Rand Corp, 53-65; PRES, TECHNOMICS, INC, 65- U.S.A.F, 52-53. Am. Psychol. Asn; Brit. Psychol. Soc. Complex man-machine systems; systems training development; criteria research in occupational selection; group interaction, leadership and communication; human learning; educational innovations. Publ: Contrib. auth, Inventing education for the future, Chandler, 67. Address: 11718 Darlington, Los Angeles, Calif. 90049.

KRIZ, DR. MIROSLAV A, b. Liberec, Czech, Feb. 5, 08; nat; m. 35; c. 3. ECONOMICS. Ph.D.(econ), Prague Polytech, 37; LL.D, Paris, 38. Mem. econ. & financial dept, Secretariat, League of Nations, 36-45; res. dept, Fed. Reserve Bank, N.Y, 45-, chief for. res. div, 53-58; V.PRES, FIRST NAT. CITY BANK, 58- Consult, U.S. Secy. Treasury, 51. Econ. Asn; Royal Econ. Soc. International economics; money and banking. Publ: Operations of banks of issue on the open market, Open Mkt. Policy; Gold in world monetary affairs; Gold: barbarous relic or useful instrument. Address: 46 Bayard Lane, Princeton, N.J. 08540.

KROEGER, PROF. ARTHUR, b. Calif, Sept. 15, 08. MARKETING. A.B, Stanford, 31, M.B.A, 33. Mgr, Manning's, Inc, San Francisco, 33-40; asst. prof. mkt, Idaho, 40-42; asst. state price officer, Idaho dist, Off. Price Admin, 42-43; from assoc. prof. to PROF. MKT, GRAD. SCH. BUS, STANFORD, 46- U.S.N.R, 43-46, Lt. Comdr. Mkt. Asn; Acad. Advert. Advertising; retailing. Publ: Co-auth, Advertising principles and problems, 60, revised 64 & 68; co-auth, Reading in marketing, 63, revised 68 & American association of collegiate schools of business, 1916-1966, 66, Irwin. Address: Graduate School of Business, Stanford University, Stanford, Calif. 94305.

KROGER, DR. ROLF O(TTO), b. Hamburg, Germany, Sept. 28, 31; wid. PSYCHOLOGY. B.A, Sir George Williams Col, 57; M.A, Columbia, 59; Ph.D. (psychol), California, Berkeley, 63. Asst. res. psychologist, California, Berkeley, 63-64; lectr. PSYCHOL, San Francisco State Col, spring, 64; ASST. PROF, TORONTO, 64- Psychol. Asn; Soc. Psychol. Study Social Issues. Social psychology: role theory, personality assessment and group decision making. Address: Dept. of Psychology, University of Toronto, Toronto, Ont, Can.

KROGH, PROF. HAROLD C, b. Cedar Rapids, Iowa, Feb. 1, 17; m. 42; c. 3. BUSINESS ADMINISTRATION, ECONOMICS. B.Sc, Iowa, 39, M.A, 41, Ph.D. (bus. admin), 53; cert, Harvard, 59 & N.Y. Univ, 64. Asst. to the pres, Midland Mortgage Co, Iowa, 39-40; instr. econ, Alabama, 41-42; personnel officer, Vet. Admin. Hosp, Des Moines, Iowa, 46-47; from instr. to assoc. prof. finance, Drake, 47-54; assoc. prof. BUS. ADMIN, SCH. BUS, KANSAS, 54-60, PROF, 60- Summers, Am. Risk & Ins. Asn. fels, 51, 54, 57 & 64; Adv. Chartered Life Underwriters Paul Speicher scholar, Wisconsin, 64, grad. sch. banking fel, 67. Cert, For. Serv. Inst, U.S. Dept. State, 64; Nat. War Col, 67. Ed. consult, Am. Col. Life Underwriters, Pa, 66-68. U.S.A, 42-46, Res, 46-, Col. Finance Asn; Risk & Ins. Asn. Risk and insurance theory; financial aspects of pension plans; financial institutions; investment management of portfolios. Publ: Property and liability insurance company finance, In: Handbook of property and liability insurance, Irwin, 64; contrib, Compendium of Vols. I to X, Intercollegiate Bibliography of Cases in Business Administration, Harvard, 67. Address: 307H Summerfield Hall, University of Kansas School of Business, Lawrence, Kans. 66044.

KROHN, DR. R(OGER) G(EORGE), b. Howard Lake, Minn, Mar. 11, 31; m. 58. SOCIOLOGY, ANTHROPOLOGY. B.A, St. Olaf Col, 53; M.A, Minneapolis, 57, Ph.D, 60. Asst. sociol, Family & Childrens' Serv, Minn, 56-57; Wisconsin, 57-58; Minnesota, 58-59; ASST. PROF. SOCIOL. & ANTHROP, Memorial Univ, 60-64; Ohio State, 64-65; McGILL, 65- U.S.A, 53-55. Sociol. Asn; Can. Sociol. & Anthrop. Asn. Sociology of science; social organization theory; urban sociology and housing. Publ: Science and the practical institutions, Proc. Minn. Acad. Sci, 60; The institutional location of the scientist and his scientific values, IRE Trans. Eng. Mgt, 9/61; The scientists: a changing social type, Am. Behav. Scientist, 12/62. Address: Dept. of Sociology, McGill University, Montreal, Que, Can.

KROITOR, PROF. HARRY PETER, Eng. Lit, see 5th ed, Dir. Am. Scholars, Vol. II, Eng, Speech & Drama.

KROLL, DR. ABRAHAM, Psychol, see 10th ed, Soc. & Behav. Vols.

KROLL, DR. ARTHUR M, b. Whitinsville, Mass, Mar. 26, 41; m. 62; c. 1. COUNSELING, EDUCATION. A.B, Clark, 62; Ed.M, Harvard, 63, Ed.D. (guid), 66. Coordinator pupil serv, pub. schs, Mass, 64-67; ASST. PROF. ED, CLARK, 67-, DIR. STUDENT COUNSELING CENTER, 68- Asst. prof, Harvard, 66- Personnel & Guid. Asn; Ed. Res. Asn; Nat. Voc. Guid. Asn. Personality theory; career development theory; decision-making; administration of pupil services; group processes; sensitivity training; psychotherapy and counseling. Publ: Co-ed, Guidance in American education II: current issues and suggested action, 65 & Guidance in American education III: needs and influencing forces, 66, Harvard Grad. Sch. Ed. & Career information service, Dept. Ed, Mass, 68. Address: Student Counseling Center, Clark University, Worcester, Mass. 01610.

KROLL, BERNARD H(ILTON), b. Brooklyn, N.Y, Sept. 8, 22; m. 47; c. 3. STATISTICS. B.A, Brooklyn Col, 47. Air transport economist, Civil Aeronaut. Bd, 48-51; anal. statistician, biomet. br, Nat. Inst. Ment. Health, 51-58; HEAD statist. procedures & anal. sect, perinatal res. br, NAT. INST. NEUROL. DISEASES & BLINDNESS, 58-67, SYSTS. DESIGN & DATA PROCESSING SECT, OFF. BIOMET, 67- U.S.A, 42-47. Fel. AAAS; Statist. Asn; fel. Pub. Health Asn; Asn. Comput. Mach. Public health; systems analysis; data processing; processing; vital statistics and population. Publ: Management of records in a large-scale collaborative research program; Source document acquisition system. Data Processing Mgt, 4/64; co-auth, Influence of weight and gestation on perinatal and neonatal mortality by ethnic group, Am. J. Pub. Health, 11/64. Address: 3507 Farthing Dr, Wheaton, Md. 20906.

KROLL, PROF. MORTON, b. New York, N.Y, Mar. 14, 23; m. 44; c. 2. POLITICAL SCIENCE, PUBLIC ADMINISTRATION. A.B, California, Los Angeles, 46, Ph.D.(polit. sci), 52. Asst. polit. sci, California, Los Angeles, 47-50; asst. prof, Cent. Oregon Community Col, 50-51; Oregon, 51-54; Wayne State, 54-56; dir, library develop. proj, Pac. Northwest Library Asn, 56-58; acting assoc. prof. polit. sci, WASHINGTON (SEATTLE), 58-60, asst. prof, 60-62, assoc. prof, 62-64, PUB. AFFAIRS & POLIT. SCI, 64-68, PROF, 68-, dir. div. correspondence study, 60-64. Smith-Mundt vis. prof, Univ. Col. W.I, Trinidad, 62-63; U.S. Govt. Fulbright-Hays Act award vis. prof. & acting head dept. govt, Univ. of the West Indies, 66-67. C.Eng, 43-46, Sgt. Polit. Sci. Asn; Soc. Pub. Admin. Development and administration of public policy; comparative public administration; leadership in management; United States and Latin American relations; politics in literature. Publ: Ed, College university and special libraries & Libraries and librarians of the Pacific Northwest; co-auth, The politics of mental health, Columbia Univ. Press, 68. Address: Graduate School of Public Affairs, University of Washington, Seattle, Wash. 98105.

KROMM, DR. DAVID ELWYN, b. Grosse Pointe, Mich, Sept. 1, 38; m. 60; c. 2. GEOGRAPHY. B.S, Eastern Michigan, 60; M.A, Mich. State, 64, Ph.D.(geog), 67. ASST. PROF. GEOG, KANSAS STATE, 67- U.S.A, 60-62, Res, 62-, Capt. Asn. Am. Geog. Resource utilization; Slavic Europe. Publ: Irredentism in Africa: the Somali-Kenya boundary dispute, Trans. Kans. Acad. Sci, fall 67; Sequences of forest utilization in northern Michigan, Can. Geogr, 9/68. Address: Dept. of Geography, Kansas State University, Manhattan, Kans. 66502.

KRON, DR. RALPH E(RNEST), b. Teremia Mica, Romania, Dec. 9, 27; m. 48; c. 3. COUNSELING, EDUCATIONAL PSYCHOLOGY. B.S, Kansas, 50, M.Ed, 51, Ed.D, 58. Teacher, Holcomb Consol. Sch, Kans, 51-53; asst, guid. bur, sch. ed, Kansas, 53-55, chief psychometrist & instr. ed, 55-57; counsr. & lectr. ed, Pittsburgh, 57-59; asst. prof. counseling, MICH. STATE, 59-65, ASSOC. PROF. COUNSELING CENTER, 65- Voc. consult, bur. hearings & appeals, Soc. Security Admin, Dept. Health, Ed. & Welfare, 64. U.S.N, 46-47. Psychol. Asn; Personnel & Guid. Asn. Factored measures of personality; non-intellective personality factors relating to educational success in special training programs; interracial comparisons of educational progress; psychotherapy process; theory of vocational interest development. Publ: Co-auth, Indian child goes to school: a study of interracial differences. Address: Counseling Center, Michigan State University, East Lansing, Mich. 48823.

KRON, DR. REUBEN E(LIAHU), b. Brooklyn, N.Y, Apr. 11, 30; m. 58; c. 2. PSYCHIATRY. N.Y. Univ, 47-50, N.Y. State Regents scholar, 47-51, N.Y. State scholar, State Univ. N.Y, 50-54, M.D, 54. Intern, Mt. Sinai Hosp, N.Y, 54-55; resident PSYCHIAT, sch. med, Yale, 55-58; assoc. SCH. MED, PENNSYLVANIA, 60-66, ASST. PROF, 66- Nat. Inst. Ment. Health fel, 60-61 & ment. health career investr, 61-71. Med.C, U.S.N, 58-60, Lt. AAAS; Soc. Psychophysiol. Res; Soc. Biol. Psychiat; Soc. Res. Child Develop. Behavioral development in animals and man, including infant sucking behavior; mother-child interaction; personality development. Publ: A method of measuring sucking behavior of newborn infants, Psychosom. Med, 63; Newborn sucking behavior affected by obstetric sedation, Pediatrics, 66; Instrumental conditioning of nutritive sucking behavior in the newborn, Recent Advances in Biol. Psychiat, 67. Address: 1224 Green Tree Lane, Penn Valley, Pa. 19072.

KRONENBERGER, DR. EARL J(EROME), b. Dayton, Ohio, Nov. 22, 29. PSYCHOLOGY. B.S, Dayton, 51; M.A, Bowling Green State, 52; Kentucky, 56-57; Ph.D, Ottawa, 59. Guid. counsr, pub. schs, Md, 54-56; staff counsr, Kentucky, 56-57; clin. psychologist, Dayton State Hosp, Ohio, 59-60; assoc. prof. psychol. & ed. & dir. St. Francis Psychol. Center, St. Francis Col, 60-62; ASSOC. PROF. PSYCHOL, XAVIER (OHIO), 62-, DIR. PSYCHOL. SERV. CENTER, 67- Clin. psychologist, Mt. Alverno Sch. Boys, Ohio, 64-; Longview State Hosp, Cincinnati, Ohio, 65- U.S.A, 52-54. AAAS; Psychol. Asn; Soc. Proj. Tech. Counseling; psychotherapy; learning theory; psychodiagnostic testing. Publ: Interpersonal aspects of industrial accident and non-accident employees, Eng. & Indust. Psychol; co-auth, Child-parent identification between reading ability groups, Psychology, 64 & Dogmatism and perceptual synthesis, Perceptual & Motor Skills, 67. Address: Dept. of Psychology, Xavier University, Cincinnati, Ohio 45207.

KRONUS, DR. SIDNEY, b. Binghamton, N.Y, Nov. 24, 37; m. 64. SOCIOLOGY. A.B, Harpur Col, 64; M.A, Chicago, 65, Ph.D.(sociol), 67. ASST. PROF. SOCIOL, ILLINOIS, URBANA, 67- U.S.A, 56-59. Sociol. Asn. Minority relations and urban sociology. Address: Dept. of Sociology, University of Illinois, Urbana, Ill. 61801.

KROOSS, PROF. HERMAN E(DWARD), b. New York, N.Y, July 12, 12. ECONOMICS. Ph.B, Muhlenberg Col, 34; A.M, Pennsylvania, 35; Ph.D, N.Y. Univ, 47. Ed. supvr, Penn Mutual Life Ins. Co. & Union Cent. Life Ins. Co, 35-40; asst, N.Y. UNIV, 45-47, instr. econ, sch. commerce, 47-49, asst. prof. econ. & financial hist, 49-51, assoc. prof, 51-55, PROF. ECON, GRAD. SCH. BUS. ADMIN, 55- Econ. Asn; Finance Asn; Econ. Hist. Asn.(treas, 48-). Publ: American economic development; American economy; Financial history of United States, McGraw, 63. Address: Dept. of Economics, New York University, New York, N.Y. 10006.

KROPP, PROF. RUSSELL P(AUL), b. Tamaqua, Pa, July 11, 27; m. 51; c. 4. PSYCHOLOGY EDUCATION. B.S, East Stroudsburg State Col.(Pa), 49; M.A, West Virginia, 50; Ed.D, Illinois, 53. Asst. bur. ed. res, Illinois, 50-53; from asst. prof. to PROF. ED. RES. & DIR. INST. HUMAN LEARNING, FLA. STATE, 53- U.S.N, 45-46, Res, 46-51; U.S.A.F.R, 51-58, 1st Lt. Psychol. Asn; Ed. Res. Asn. Educational research methodology; classroom learning; measurement and evaluation; educational technology. Address: Institute of Human Learning, Florida State University, Tallahassee, Fla. 32304.

KROPP, PROF. SIMON FRED, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KROSSNER, DR. WILLIAM J(OHN), b. Newark, N.J, Oct. 19, 39. EXPERIMENTAL PSYCHOLOGY. B.Chem.Eng, Cornell, 61; Ph.D.(psychol), Harvard, 65. Res. fel. PSYCHOL, center cognitive studies, Harvard, 65; ASST. PROF, VASSAR COL, 65- AAAS; Psychol. Asn; Inst. Elec. & Electronics Eng; Statist. Asn; Inst. Math. Statist. Human problem-solving; information processing and psycholinguistics; mathematical models and simulation; dynamics of reinforcement schedules. Publ: Density and dimensionality in the attainment of conjunctive concepts, 10/66, Response to a sinusoidal time-varying reinforcement schedule, 8/67 & The evaluation of strings in an artificial logical language, 10/67, Psychonomic Sci. Address: Dept. of Psychology, Vassar College, Poughkeepsie, N.Y. 12601.

KROTKI, PROF. KAROL J(OZEF), b. Cieszyn, Poland, May 15, 22; m. 47; c. 3. ECONOMICS, DEMOGRAPHY. B.A, Cambridge, 48, M.A, 52; M.A. & Ph.D.(econ), Princeton, 60. Res. asst. indust. develop, Ministry Town & Country Planning, Eng, 48-49; dep. dir. dept. statist, Sudan Govt, 49-58; res. adv. econ, Inst. Develop. Econ, Karachi, Pakistan, 60-64; asst. dir. res, census br, Dom. Bur. Statist, Can, 64-68; PROF. SOCIOL. & DEMOG, ALBERTA, 68- Vis. lectr, California, Berkeley, 67. Consult, Hashamite Kingdom of Jordan, 61. R.A.F, 39-46, Flying Officer. Am. Statist. Asn; Royal Statist. Soc; Royal Econ. Soc; Brit. Comput. Soc. Interrelations of economic and demographic variables; estimating population parameters from inadequate data. Publ: The 1953 population pilot census, Dept. Statist, Khartoum, Sudan, 55; Twenty-one facts about the Sudanese, Pop. Census Off, Khartoum, 58; co-auth, The people of Karachi: data from a survey, Pakistan Inst. Develop. Econ, 64. Address: Dept. of Sociology, University of Alberta, Edmonton, Alta, Can.

KROULD, DR. HARRY J(OHN), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 63.

KROY, DR. WALTER HENRY, JR, Opers. Res, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KRUECKEBERG, DR. HARRY FREDRICK, b. Napoleon, Ohio, Feb. 17, 34; m. 56; c. 2. AGRICULTURAL & BUSINESS ECONOMICS. B.S, Purdue, 56, M.S, 60; Ph.D.(agr. econ), Pa. State, 63. ASST. PROF. AGR. & FOOD ECON, DELAWARE, 63- U.S.N, 56-58, Res, 58-64, Lt. Mkt. Asn; Agr. Econ. Asn; Food Distribution Res. Soc. Consumer behavior; food retailing and wholesaling. Publ: Research management, Proc. Nat. Food Distribution Res. Conf, Univ. Mass, 64; Where to find the facts on merchandising dairy products, 65, suppl. 67 & Dairy department management, 66, Food Bus. Inst. Address: Food Business Institute of the Dept. of Agriculture & Food Economics, University of Delaware, Newark, Del. 19711.

KRUEGER, PROF. ALBERT H, b. Milwaukee, Wis, Jan. 12, 20; m. 45; c. 3. COUNSELING. B.S, Wisconsin, 42, Ph.D, 56; M.Ed, Marquette, 51. Asst. prof. eng, Milwaukee Sch. Eng, 45-51; guid. dir, pub. schs, Ill, 54-56; assoc. prof. PSYCHOL, ST. CLOUD STATE COL, 57-67, PROF. & STAFF PSYCHOL. SERV. CENTER, 67-, coordinator counsr. ed, 59-67. Lectr. ed, Arizona State, 63-64; San Diego State Col, summers, 65 & 66. U.S.A.A.F, 42-45. Factors related to consistency in occupational choice; developing a more objective approach to training counselors, particularly in the supervised practicum experience. Publ: Counselor holding power: clinical versus client-centered, Personnel & Guid. J, 6/65; Minnesota's educational crisis: a quest for leadership, Minn. J. Ed, 2/66; An activity approach to teaching a college course in mental hygiene, Peabody J. Ed, 3/67. Address: Dept. of Psychology, St. Cloud State College, St. Cloud, Minn. 56301.

KRUEGER, PROF. ANNE O(SBORN), b. Endicott, N.Y, Feb. 12, 34; div; c. 1. ECONOMICS. A.B, Oberlin Col, 53; M.S, Wisconsin, 56, Ford Found. fel, 57-58, Ph.D, 58. Instr. ECON, Wisconsin, 58-59; asst. prof, MINNESOTA, MINNEAPOLIS, 59-63, assoc. prof, 63-66, PROF, 66- Consult, U.S. Agency Int. Develop, Dept. State, summers, 65- Econ. Asn; Economet. Soc. International trade theory; economic development. Publ: National growth and economic change in the upper midwest, Univ. Minn. Press; Some economic costs of exchange control, J. Polit. Econ, 66; Alternative government policies under fixed and flexible exchange rates, Quart. J. Econ, 65. Address: Dept. of Economics, University of Minnesota, Minneapolis, Minn. 55455.

KRUEGER, DR. LAWRENCE MICHAEL, b. New York, N.Y, Aug. 18, 37; m. 61; c. 2. INDUSTRIAL PSYCHOLOGY. B.A, State Univ. N.Y. Col. New Paltz, 64; M.S, Purdue, 66, David Ross fel, 66-67, Ph.D.(indust. psychol), 67. Teaching assoc. psychol, Purdue, 64-66; ACCT. RES. SUPVR, FOOTE, CONE & BELDING, INC, 67- Psychol. Asn. Application of psychological principles to the understanding of consumer behavior. Address: Foote, Cone & Belding Inc, 200 Park Ave, New York, N.Y. 10017.

KRUEGER, PROF. L(EVI), M(cKINLEY), b. Spencer Co, Ind, May 30, 96; m. 23; c. 1. PSYCHOLOGY. A.B, Wabash Col, 20; A.M, Indiana, 30, Ph.D. (psychol), 33. Asst. prof. PSYCHOL, Calumet Center, INDIANA, 33-46, Indianapolis Center, 46-66, acad. counsr, 46-50; ASSOC. PROF, 65- AAAS; Psychol. Asn; Personnel & Guid. Asn. Educational psychology; mental hygiene. Publ: Psychology of human relations & Brief summary of literature on leadership, Indiana Univ. Sch. Ed. Bull. Address: Route 4, Box 286, Frankfort, Ind. 46041.

KRUEGER, PROF. MAYNARD C, b. Clark Co, Mo, Jan. 16, 06; m. 34; c. 3. ECONOMICS. A.B, Missouri, 26, A.M, 27. Instr. hist, Albion Col, 27-28; ECON, Wharton sch. finance & commerce, Pennsylvania, 28-32; asst. prof, CHICAGO, 32-47, assoc. prof, 47-67, PROF, 67- Fulbright vis. prof, Vienna, 59-60, Athens, 63-64. Consult, far east. prog, Econ. Coop. Admin, 51. Econ. Asn. Address: University of Chicago, Chicago, Ill. 60637.

KRUEGER, DR. NANCY M(OORE), Sociol, Anthrop, see CLATWORTHY, DR. NANCY M(OORE).

KRUEGER, PROF. RALPH R, b. Zurich, Ont, Mar. 10, 27; m. 50; c. 2. GEOGRAPHY. B.A, Western Ontario, 52, M.A, 55; univ. fel, Indiana, 56-57, Soc. Sci. Res. Coun. fel, 58, Ph.D.(geog), 59. Lectr. geog, Wayne State, 57-59; assoc. prof. & chmn. dept, Waterloo Lutheran, 59-62; PROF. GEOG. & PLANNING & CHMN. DEPT, WATERLOO, 62- Summers, geogr, Can. Govt, 59-61. Asn. Am. Geog; Can. Asn. Geog. Regional planning and development; agricultural geography. Publ: Co-auth, Canada, a new geography, Holt, 68; auth, Changing land-use patterns in the Niagara fruit belt, Royal Can. Inst, 59 & The orchard industry of Canada, Geog. Bull, 65. Address: Dept. of Geography & Planning, University of Waterloo, Waterloo, Ont, Can.

KRUEGER, DR. THOMAS A, Mod. Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KRUEGER, PROF. WILLIAM C(HARLES) F(REDERICK), b. St. Louis, Mo, Sept. 27, 97; m. 27; c. 3. PSYCHOLOGY. A.B. & M.A, Drake, 25; Ph.D., Chicago, 28. Instr. PSYCHOL, WAYNE STATE, 28-33, asst. prof, 33-37, assoc. prof, 37-60, prof, 60-67, EMER. PROF, 67- Phases of the learning process; guessing factors in true-false tests; effects of drugs on consciousness and behavior. Address: 23 Devonshire, Pleasant Ridge, Mich. 48069.

KRUG, DR. ROBERT E(DWARD), JR, b. Dayton, Ohio, Sept. 12, 25; m. 48; c. 3. PSYCHOLOGY. B.S, Ohio State, 48, M.A, 49, Ph.D.(psychol), 55. Asst. prof. PSYCHOL, Trinity (Tex), 49-51; res. assoc, Ohio State, 51-54; instr, Ohio Wesleyan, 54-55; asst. prof, Carnegie Inst. Tech, 55-59, assoc. prof, 59-61; sr. res. scientist, Am. Inst. Res, 61-62, exec. scientist, 62-64; dir. res. Peace Corps, 64-66; dir. plans & eval, Job Corps, Off. Econ. Opportunity, 66-67; INST. DIR, AM. INST. RES, 67- U.S.A.A.F, 43-45. Psychol. Asn; Psychomet. Soc. Personnel selection; performance evaluation; psychometric methods. Publ: An analysis of the F scale. I. Item factors analysis and co-auth, An analysis of the F scale. II. Relationship to standardized personality inventories, J. Soc. Psychol; Personnel selection, In: Industrial Psychology. Address: 135 N. Bellefield, Pittsburgh, Pa. 15213.

KRUGER, DR. ALICE S(KASTENBAUM), Psychol, see 10th ed, Soc. & Behav. Vols.

KRUGER, DR. ARTHUR, b. Toronto, Ont, Nov. 4, 32; m. 58; c. 1. ECONOMICS. B.A, Toronto, 55; univ. fel, Mass. Inst. Tech, 55-57, Can. Soc. Sci. Res. Coun. fel, 57-58, Can. Coun. fel, 58-59, Ph.D, 59. Asst. prof. indust, Pennsylvania, 59-61; lectr. ECON, TORONTO, 61-62, asst. prof, 62-65, ASSOC. PROF, 65- Econ. Asn; Indust. Rels. Res. Asn; Can. Polit. Sci. Asn. Industrial relations in the Canadian basic steel industry; wage patterns in Canadian industry; changing skill requirements in the labor market and its impact on secondary and higher education. Address: Dept. of Political Economy, Faculty of Arts & Science, University of Toronto, Toronto, Ont, Can.

KRUGMAN, DR. ARNOLD DAVID, b. New York, N.Y, May 13, 25; m. 47; c. 4. PSYCHOLOGY. B.S, Long Island, 47; M.A, N.Y. Univ, 48; Vet. Admin. fel. & Ph.D.(psychol), Kentucky, 52. Staff psychologist, Vet. Admin. Hosp, Knoxville, Iowa, 52-55; Vet. Admin. Center, Martinsburg, W.Va, 55-56, chief psychologist, 56-64; CHIEF PSYCHOL. SERV, VET. ADMIN. HOSP, 64-; ASSOC. PROF. MED. PSYCHOL, SCH. MED. & LECTR, DEPT. PSYCHOL, DUKE, 64- Vis. prof, North Carolina, Chapel Hill, 64- U.S.A, 43-46. Psychol. Asn. Psychological problems of aging process, long-term illness and long-term hospitalization or institutionalization. Publ: Effects of dextroamphetamine, meprobamate and a placebo on problem solving and mood of aged subjects, In: Social and psychological aspects of aging, Columbia Univ. Press, 62, Drugs and placebos: a model design, Psychol. Reports, 62 & Psychological considerations in bladder function disturbances, In: Ed, Saul Boyarsky, The neurogenic bladder, Williams & Wilkins, 67. Address: Veterans Administration Hospital, Durham, N.C. 27705.

KRUGMAN, DR. DOROTHY C(AROL), b. New Bedford, Mass, Apr. 30, 23; m. 42; c. 2. PSYCHOLOGY. B.S, City Col. New York, 42, fel, 42-43; A.M, Columbia, 43, Ph.D.(clin. psychol), 50. Staff psychologist, San Antonio State Hosp, Tex, 43-44; case worker & consult. psychologist, Miami Family Serv. Bur, Fla, 44-45; instr. psychol, City Col. New York, 46-49; STAFF PSYCHOLOGIST, LOUISE WISE SERV, 48-; CONSULT. PSYCHOLOGIST, JEWISH CHILD CARE ASN, N.Y, 55-; LEAKE & WATTS CHILDRENS HOME, 61- Psychol. Asn; Soc. Proj. Tech; Orthopsychiat. Asn. Infancy development and evaluation; counseling in parent-child relationships. Publ: Co-auth, A program of adoptive placement for infants under the age of three months, Am. J. Orthopsychiat; auth, The psychologist in an adoption agency, 64 & Reality in adoption, 64, Child Welfare. Address: 425 Riverside Dr, New York, N.Y. 10025.

KRUGMAN, DR. HERBERT E(LLIS), b. New York, N.Y, May 3, 21; m. 42; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 42; Ph.D.(sociol), Columbia, 52. Proj. dir, Richardson, Bellows, Henry & Co, 46-49, mgr. consumer res, 52-59; res. assoc, center int. studies, Princeton, 50-52; v.pres. res, Raymond-Loewy & William Snaith, Inc, 59-61; v.pres. & assoc. res. dir, Ted Bates & Co, Inc, 61-62; v.pres. & res. dir, Marplan Div, Interpub, Inc, 62-67; CONSULT. PUB. REL. & AFFAIRS RES, GEN. ELEC. CO, 67- Lectr, Columbia, 57- U.S.A.A.F, 42-45. Psychol. Asn; Sociol. Asn; Soc. Proj. Tech; Asn. Pub. Opinion Res.(pres, 65-66); Mkt. Asn. Consumer behavior; communication; perceptual learning. Publ: An application of learning theory to TV copy testing, 62, The impact of television advertising: learning without involvement, 65 & The measurement of advertising involvement, 66-67, Pub. Opinion Quart. Address: 425 Riverside Dr, New York, N.Y. 10025.

KRUGMAN, DR. JUDITH I, b. Brooklyn, N.Y, May 14, 09; m. 39. PSYCHOLOGY. B.A, Hunter Col, 28; M.A, Columbia, 31; Ph.D.(clin. psychol), N.Y. Univ, 41. PSYCHOLOGIST, bur. child guid, NEW YORK BD. ED, 35-40, BUR. ED. RES, 40- Lectr, Columbia, 47-51; psychologist, spec. reading serv, New York City Bd. Ed, 63-65. Cert. clin. psychol, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; fel. Orthopsychiat. Asn; Soc. Proj. Tech. Mental health; projective techniques; evaluation. Publ: Cultural deprivation and child development, Newsletter; Clinical validation of the Rorschach with problem children; collab, Mental health in schools and colleges, Rev. Ed. Res. Address: P.O. Box 43, Tomkins Cove, N.Y. 10986.

KRUGMAN, DR. MORRIS, b. Poland, July 1, 99; nat; m. 39. PSYCHOLOGY. B.S, Polytech. Inst. Brooklyn, 19; M.A, N.Y. Univ, 25, Ph.D.(psychol), 28. Teacher & counsr, high schs, N.Y, 24-32; chief psychologist, bur. child guid, BD. ED, NEW YORK, 32-47, ASST. SUPT. IN CHARGE GUID, 47-, assoc. supt. schs, 60-65. Lectr, Brooklyn Col, Hunter Col, N.Y. Univ. & teachers col, Columbia, 29-49. Dipl, Am. Bd. Exam. Prfnl. Psychol. C.W.S, U.S.A, 18. AAAS; fel. Psychol. Asn; fel. Soc. Proj. Tech.(pres, 40); fel. Orthopsychiat. Asn.(pres, 52-53); Acad. Polit. & Soc. Sci. Clinical psychology; guidance of youth, personality. Publ: Rorschach examination in a child guidance clinic, Am. J. Orthopsychiat; Orthopsychiatry and education, Orthopsychiat; co-auth, Studies of student personnel, State Ed. Dept. Bull. Address: P.O. Box 43, Tomkins Cove, N.Y. 10986.

KRUIZENGA, DR. RICHARD J(OHN), b. Spring Lake, Mich, Sept. 25, 30; m. 52; c. 3. ECONOMICS. A.B, Hope Col, 52; fel, Mass. Inst. Tech, 52-56, Ph.D.(econ), 56. Instr. econ, Mass. Inst. Tech, 55-57; economist, Standard Oil Co.(N.J), 57-63, coordinator econ. & planning, Humble Oil, Houston, 63-66, MGR. ECON. DEPT, STANDARD OIL CO.(N.J), 66- Econ. Asn; Statist. Asn; Petrol. Inst. Economic theory; industrial economics; finance. Address: Standard Oil Co. of New Jersey, 30 Rockefeller Plaza, New York, N.Y. 10020.

KRULEE, PROF. GILBERT K(OREB), b. Cambridge, Mass, June 1, 24; m. 56. PSYCHOLOGY. B.S, Mass. Inst. Tech, 44, Ph.D.(indust. econ), 50; M.Ed, Springfield Col, 48. Instr. psychol, Mass. Inst. Tech, 48-50; res. assoc. soc. psychol, Michigan, 50-51; asst. prof. psychol, Tufts Col, 51-55; Case, 55-60; assoc. prof. indust. eng, NORTHWESTERN, 60-65, PROF. INDUST. ENG. & MGT. SCI. & CHMN. DEPT, 65-, CHMN. PROG. COMPUT. & INFO. SCI, 65-, PROF. LING, 66- Consult, cmt. undersea warfare, Nat. Res. Coun. U.S.N, 43-46, Res, 46-58. Psychol. Asn; Sociol. Asn; Indust. Rels. Res. Asn; Asn. Comput. Mach. Industrial relations; social psychology; applied experimental psychology. Publ: Information theory and man machine systems, J. Opers. Res. Soc. Am; Scanlon plan, cooperation through participation & Company-wide incentive systems, J. Bus. Address: Dept. of Industrial Engineering & Management Sciences, Northwestern University, Evanston, Ill. 60201.

KRUM, DR. JAMES RICHARD, b. Lebanon, Pa, Mar. 3, 34; m. 58; c. 4. BUSINESS ADMINISTRATION. A.B, Gettysburg Col, 56; M.S, Pa. State, 59; D.B.A.(mkt), Mich. State, 66. Jr. procedures eng, Westinghouse Elec. Corp, 56-57; instr. ECON. & BUS. ADMIN, Gettysburg Col, 59-63; ASST. PROF, DELAWARE, 66- Mkt. Asn. Marketing organization structures in large industrial corporations; business ethics; consumer behavior; personnel management. Publ: Survey of marketing research directors of Fortune 500 firms, J. Mkt. Res, 8/66. Address: Dept. of Business Administration, University of Delaware, Newark, Del. 19711.

KRUMBEIN, PROF. ELIEZER, b. Brooklyn, N.Y, July 4, 26; m. 50; c. 3. EDUCATIONAL PSYCHOLOGY, PERSONNEL. S.B, Harvard, 46; Chicago, 47-48; A.M, Northwestern, 56, Ph.D.(ed. psychol), 60. Asst. nat. dir. dept. inter-relig. coop, Anti-Defamation League, B'nai B'rith, 48-49; dir. relig. ed, N.Shore Congregation Israel, Glencoe, Ill, 49-57; lectr. behav. sci. & dir. spec. serv. bus. & indust, Chicago, 57-60; asst. ed. philos, Northwestern, 56-57, lectr. ed. psychol. & philos, 57-61, asst. dir. ed, transportation center, 60-62, dir, 62-65, asst. prof. ED. 62-65; ASSOC. PROF, ILLINOIS, CHICAGO CIRCLE, 65- Carnegie Found. grant proj. dir, Teacher Ed. Proj, Northwestern, 65; lectr. & consult, continuation ed. dept, sch. pub. health & admin. med, Columbia, 66-; co-dir, inst. admin. leadership in sch. desegregation & equal ed. opportunity, Illinois, Chicago Circle, 67- Consult. continuing ed, res. & ed. trust, Am. Hosp. Asn, 65-; consult, Am. Dietetic Asn, 65-; postgrad. & dent. ed, col. dent, Illinois, 65- Mem. res. group, Fund Adult Ed. proj, Chicago, 57-59; steering cmt, Proj. Wingspread, Chicago & suburban student exchange proj, 66- AAAS; Psychol. Asn; Ed. Res. Asn. Relations between value and learning theories; personnel selection; curriculum construction and evaluation of instruction; research and action programs on school segregation and plans and training programs for desegregation; group process. Publ: Ed. & co-auth, Innovation in teacher education, Northwestern Univ. Press, 65; Reliability of techniques for scoring thematic apperception test responses and rating predicted executive behavior: study of advertising agency executive, Dissertation Abstracts, 60. Address: 1281 Linden Ave, Highland Park, Ill. 60035.

KRUMBOLTZ, PROF. JOHN D(WIGHT), b. Cedar Rapids, Iowa, Oct. 21, 28; m. 54; c. 2. PSYCHOLOGY. B.A, Coe Col, 50; Roberts fel, Columbia, 50, M.A, 51; Ph.D.(ed. psychol), Minnesota, 55. Teacher & counsr, high sch, Iowa, 51-53; asst. guid, Minnesota, 53-54, instr, 54-55; asst. prof. ED. & PSYCHOL, Mich. State, 57-59, assoc. prof, 59-61; STANFORD, 61-66, PROF, 66- Guggenheim fel, 67-68. U.S.A.F, 55-57. AAAS; Psychol. Asn; Personnel & Guid. Asn.(award, 59 & 66); Ed. Res. Asn.(v.pres. 66-68). Behavior modification; educational measurement; guidance and personnel. Publ: Co-auth, Learning to study; ed, Learning and the educational progress, Rand McNally, 65 & Revolution in counseling, Houghton, 66. Address: Stanford University, School of Education, Stanford, Calif. 94305.

KRUMM, DR. RICHARD L, b. Toledo, Ohio, Feb. 13, 25; m. 47; c. 2. PSYCHOLOGY. B.A, Drew, 49; M.S, Pittsburgh, 50, Ph.D.(psychol), 52. Dir. behav. res. prog, Am. Inst. Res, 51-54, 55-62; dir, Hosp. Serv. Asn, Pa, 54-55; mgr. bio. sci, Radio Corp. Am, 62-65; EXEC. STAFF SCIENTIST, BUNKER-RAMO CORP, 65- Lectr, Pittsburgh, 51-53; vis. lectr. Nat. Acad. Sci. & Am. Psychol. Asn. Prog, 61, 65. Mem, Hwy. Res. Bd, Nat. Acad. Sci-Nat. Res. Coun, 67-69. U.S.A.A.F, 43-45. Psychol. Asn. Operations analysis; system test and evaluation; information processing; human factors design. Publ: Co-auth, Integrated sensor interpretation techniques, Rome Air Develop. Center Tech. Report 61-176, 9/61; General plan for Seventh Army TOS design verification tests, Tech. Report 01-06-02, 1/67 & Comparative measurement of information processing system efficiencies, Tech. Report 01-06-05, 8/67, Bunker-Ramo Corp. Address: Apt. 301, 5114 Parklawn Terr, Rockville, Md. 20852.

KRUMME, DR. GÜNTER, b. Dortmund, Germany, Sept. 18, 37; m. 64; c. 1. GEOGRAPHY, ECONOMICS. Dipl, Munich, 62; Ph.D.(geog), Washington (Seattle), 66. Temporary lectr, GEOG, Univ. Col, London, 64; ASST. PROF, Hawaii, 66-68; COLUMBIA, 68- German Fed. Army, 57-58. Asn. Am. Geog; Regional Sci. Asn; Econ. Asn. Location theory; urban economic analysis; regional economic development and planning. Publ: Werner Sombart and the economic base concept, Land Econ, 2/68; Toward a geography of enterprise, Econ. Geog, 68-69; Notes on locational adjustment patterns in industrial geography, Geografiska Annaler, 68. Address: Dept. of Geography, Columbia University, 622 W. 113th St, New York, N.Y. 10025.

KRUPER, DR. DONALD CURTIS, Psychol, Dent, see Suppl. V to 11th ed, Phys. & Biol. Vols.

KRUPP, PROF. SHERMAN R, b. New York, N.Y, Aug. 20, 26. ECONOMICS. B.A, Brooklyn Col, 49; summer, Ford fel, California, 60, Ph.D, 61. Instr. econ, Hobart Col, 56-57; Pittsburgh, 57-59; asst. prof, Fla. State, 59-61; Lehigh, 61-62, assoc. prof, 62-65; PROF. SOCIOL, QUEENS COL.(N.Y), 65- Adj. prof, Baruch Sch, City Col. New York, 67- Econ. Asn; Sociol. Asn; Acad. Mgt. Publ: Pattern in organization analysis; Structure of economic science, Prentice-Hall, 66. Address: Dept. of Sociology, Queens College, Flushing, N.Y. 11367.

KRUS, DR. DONALD M, b. Paterson, N.J, Jan. 8, 24; m. 54; c. 1. PSYCHOLOGY. B.A, Drew, 49; M.A, Clark, 51, Ph.D.(psychol), 57. Asst, Rockland Brain Res. Proj, Columbia-Greystone Assoc, 49-50; proj. dir, Am. Inst. Res, 52-54; copywriter, Union Switch & Signal Co, Westinghouse Air Brake Corp, 54-55; asst. prof. psychol. & co-dir, U.S. Pub. Health Serv. res. grant, CLARK, 57-62, ASSOC. PROF. PSYCHOL, 62- U.S.A.A.F, 42-45. AAAS; Psychol. Asn. Comparative-developmental psychology; psychopharmacology; perception-personality relationships; individual differences. Address: Dept. of Psychology, Clark University, Worcester, Mass. 01610.

KRUSCHKE, DR. EARL ROGER, b. Sheboygan, Wis, Feb. 26, 34; m. 56; c. 2. POLITICAL SCIENCE. B.S, Wisconsin, 56, Ph.D.(polit. sci), 63; M.A, Wyoming, 57. Instr. POLIT. SCI, Wisconsin, 61-62; Puget Sound, 62-64, asst. prof, 64-65; CHICO STATE COL, 65-67, ASSOC. PROF, 67-, individual res. cmt. res. grant, 65-66. Polit. Sci. Asn. Political behavior; political parties; public opinion; American government. Publ: Co-auth, Consensus and cleavage: issues in California politics, Chandler Pub, 67; auth, Introduction to the Constitution of the United States, Am. Book Co, 68; Level of optimism as related to female political behavior, Soc. Sci, 66. Address: Dept. of Political Science, Chico State College, Chico, Calif. 95926.

KRUSE, DR. ARTHUR P(AUL), b. Emerson, Nebr, Aug. 26, 03; m. 39. POLITICAL SCIENCE. A.B, Nebr. State Teachers Col.(Wayne), 29; A.M. Nebraska, 34; Cmt. Int. Rels. scholar, Chicago, 43-44, fel, 45-47, Ph.D. (int. rels), 48. Instr. hist. & govt, high schs, Nebr, 35-41; Chariton Jr. Col, Iowa, 41-42; polit. sci, Idaho, 42-43; asst. prof, Vermont, 48-50; ed. adv, U.S. Army, Camp McCoy, Wis, 50-51; assoc. prof, Far East. int. rels. & hist, Air Univ, 51-58, ED. SPECIALIST, 58-67; U.S. AIR WAR COL, 67- Lectr, Alabama, 57- Polit. Sci. Asn; Asn. Asian Studies. Far Eastern history; institutions and international relations. Publ: Co-auth, International tensions and security organizations, 53, auth, Soviet charges of aggression in Far East, 55 & some 30 chaps, In: Staff development course for USAF reserve officers, 62-67, Air Univ. Address: 3546 Gilmer Ave, Montgomery, Ala. 36105.

KRUSKAL, PROF. WILLIAM H(ENRY), Math. Statist, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KRUTE, AARON, b. Cambridge, Mass, Jan. 13, 25; m. 48; c. 2. ECONOMICS. B.A, Harvard, 48, M.A, 50. Economist, bur. labor statist, U.S. Dept. Labor, 51-52; res. analyst, div. prog. anal, SOC. SECURITY ADMIN, U.S. DEPT.

HEALTH, ED. & WELFARE, 52-56, div. disability opers, 56-58, chief anal. sect, 58-65, health ins. statist. br, OFF. RES. & STATIST, 65-67, DEP. DIR, DIV. HEALTH INS. STUDIES, 67- Mem. subcmt. phys. impairment code, Nat. Cmt. Vital & Health Statist, 56- U.S.A, 43-46, Sgt. Statist. Asn; Pub. Health Asn. Development and maintenance of basic statistical series to evaluate health insurance program; study utilization of various medical care services by aged persons. Publ: Old age and survivors insurance: operation of the annual retirement test, Soc. Security Bull, 3/56; co-auth, Delayed filing for disability benefits under the social security act, Soc. Security Bull, 10/64 & The statistical elements of medicare, Pub. Health Reports, (in press). Address: Division of Health Insurance Studies, Office of Research and Statistics, Social Security Administration, 6401 Security Blvd, Baltimore, Md. 21235.

KRUTILLA, DR. JOHN V(ASIL), b. Tacoma, Wash, Feb. 13, 22; m. 54; c. 1. ECONOMICS. B.A, Reed Col, 49; M.A, Harvard, 51, Ph.D.(econ), 52. Economist, Tenn. Valley Authority, 52-55; RESOURCES FOR THE FUTURE, 55-61, assoc. dir. WATER RESOURCES PROG, 61-64, SR. RES. ASSOC, 65- Lectr, Tennessee, 53; vis. lectr, Colorado, 59; prof. lectr, George Washington, 60-61; summers, lectr, Nat. Univ. Mexico, 60; mem. faculty, NATO Adv. Studies Inst, Iceland, 65. Consult, Tanner & Clark, 48-49: river basin proj, Maxwell Sch, Del, 58-59; Cmn. Latin Am, UN, 60, Cmn. Asia & Far East, 61; Ford Found. & U.S. Bur. Budget, 61; water resources center, California, 63; col. agr. policy inst, N.C. State, 65; MeKong River Trainee Prog, U.S. Army Corps Engrs, 66. Mem. task force fed. flood control policy, Nat. Acad. Sci, 65-66, adv. cmt. panel int. agr. land use & wildlife resources, 66-67. U.S.C.G, 42-46. Econ. Asn; Regional Sci. Asn; Inst. Biol. Sci. Resources regional economics; public policy. Publ: Columbia River treaty: the economics of an international river basin development, John Hopkins, 67; Welfare aspects of benefit cost analysis, J. Polit. Econ, 61; Conservation reconsidered, Am. Econ. Rev, 67. Address: 6609 Beverly Ave, McLean, Va. 22101.

KRYTER, DR. KARL D(AVID), Physiol. Psychol, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KRZYZANIAK, PROF. MARIAN, b. Starczanowo, Poland, Feb. 4, 11; nat; m. 58; c. 1. ECONOMICS. M.Econ. & Polit. Sci, Univ. Poznan, Poland, 32; M.A, Alberta, 54; Ph.D, Mass. Inst. Tech, 59. Dir. & asst. mgr, Centrefield Serv. Can, 55; res. assoc. Michigan, 58-59; asst. prof. ECON, Montana, 59-60; asst. prof. & res. assoc, Hopkins, 60-61; asst. prof, Wayne State, 61-63, assoc. prof, 63-64; RICE, 64-67, PROF, 67- Vis. prof, Texas Southern, 66; vis. prof, Montana, 67. Res. recognition award, Wayne State, 63. Polish Army, 39-46, 2nd Lt. Econ. Asn; Economet. Soc; Polish Inst. Am; Royal Econ. Soc. Economic theory; incidence of corporation income tax; index numbers, econometrics; statistics. Publ: Co-auth. & ed, Effects of corporation income tax, Wayne State Univ, 66; co-auth, Incidence of the corporation income tax: an empirical study of its effect upon the rate of return; auth, The long run burden of a general tax on profits in a neoclassical world, Pub. Finance, (in press). Address: Dept. of Economics, Rice University, Houston, Tex. 77001.

KTSANES, PROF. THOMAS, b. Chicago, Ill, Sept. 1, 19; m. 50; c. 1. SOCIOLOGY. B.A, Elmhurst Col, 41; M.A, Northwestern, 52, Ph.D.(sociol), 53. Instr. SOCIOL. Indiana, 50-51; TULANE, 53-54, asst. prof. 54-59. assoc. prof. 59-64. PROF. 64- U.S.A, 42-46. Sociol. Asn. Social psychology; methodology; family; modernization and social change in Latin America. Publ: Co-auth, Complementary needs in mate selection, In: Selected readings in marriage & family; co-ed, Urbanization and social change in the south, J. Soc. Issues, 1/66. Address: 917 Cherokee St, New Orleans, La. 70118.

KUARK, DR. JOHN YOON TAI, b. Taejon, Korea, July 17, 29; U.S. citizen; m. 58; c. 3. ECONOMETRICS, STATISTICS. B.B.A, Minnesota, 59, M.A, 60, Ph.D.(econ, statist), 66. Asst. prof. STATIST. & ECON, DENVER, 62-67, ASSOC. PROF, 67- Pres, Castle Enterprises, Inc, 66-; v.pres, Int. Tech. Inc, 68. Consult. indust. econ. div, Denver Res. Inst, Univ. Denver, 63-, U.S. Air Force Proj. Duty, dept. geog, 64- Economet. Soc; Econ. Asn; Statist. Asn; Opers. Res. Soc. Am. National economic planning and related econometric studies; economic development for underdeveloped areas; operations research for industries. Publ: Co-auth, Mathematical foundations for business, Pruett, 64; auth, North Korea's industrial development in the post-war period, China Quart, London, 63: Production functions of South Korean industries, J. Asiatic Studies, Korea, 65. Address: College of Business Administration, University of Denver, Denver, Colo. 80210.

KUBALA, DR. ALBERT L(OUIS), Psychol, see 10th ed, Soc. & Behav. Vols.

KUBANIS, PROF. IVAN J(OSEPH), Polit. Sci, see 10th ed, Soc. & Behav. Vols, deceased 67.

KUBANY, DR. ALBERT JULES, b. U.S. Aug. 12, 25; m. 46; c. 4. INDUSTRIAL PSYCHOLOGY. B.S, Pittsburgh, 50, M.S, 51, U.S. Pub. Health Serv. fel, 56-57. Ph.D. 57. Res. assoc. Am. Inst. Res, 51-54; staff asst. indust. rels. Westinghouse Elec. Corp, 54-55; sr. staff specialist, GEN. MOTORS INST. 57-62, ASST. DIR. STUDENT RELS. 62- U.S. Merchant Marines, 44-46, Ens. Personnel & Guid. Asn; Psychol. Asn. Attitude research; selection; general semantics; survey and market research; political psychology; international relations; motivation and morale; industrial consulting; vocational guidance; test development; existential and sociological etiology in behavior disorders; counseling. Publ: Validation study of the error-choice technique using attitudes on national health insurance, Ed. & Psychol. Measurement; Use of sociometric peer nominations in medical education research, J. Appl. Psychol; co-auth, Observation methodology and supervisory behavior, Personnel Psychol. Address: 4030 Sterling, Flint, Mich. 48504.

KUBAT, DR. DANIEL, b. Vestrev, Czech, Oct. 12, 28; U.S. citizen; m. 58. SOCIOLOGY. Charles Univ, Prague, 47-49; Ph.D.(sociol), Munich, 56; M.A, Kansas, 57; Wisconsin, 57-58 & 59-60. Asst. prof. SOCIOL, Clarkson Tech, 60-62; Wells Col, 62-65; Pittsburgh, 65-66; ASSOC. PROF, FLORIDA, 66- Res. grant surv. water consumption, S.Fla, 67-68. Consult. human fertility, São Paulo Surv, 65 & males' attitudes to fertility, 66. Am. Sociol. Asn; Pop. Asn. Am; Latin Am. Studies Asn. Political sociology, especially problems of social change in totalitarian systems; demographic changes in Brazil. Publ: Co-auth, Strategies of social science research in Latin America, Univ. Pittsburgh, 66; auth, Soviet theory of classes, Soc. Forces, 10/61; Social mobility in Czechoslovakia, Am. Sociol. Rev, 4/63. Address: Dept. of Sociology, University of Florida, Gainesville, Fla. 32603.

KUBE, DR. ELLA, b. Kiel, Germany, Jan. 30, 14; m. 50. PSYCHOLOGY. Ph.D.(psychol), California, Los Angeles, 50. Instr. psychol, Lewis & Clark Col, 50-51; RES. ASSOC. COMMUNITY STUDIES, OCCIDENTAL COL, 52-54, 55- Res. consult, Pasadena Art Mus, 63-64. Psychol. Asn; Sociol. Asn. Culture and individual growth; intergroup relations; community studies; male homosexuality. Publ: Co-auth, Dynamics of personal adjustment & Urbanism and social structure: a Los Angeles study, In: Community structure and analysis, Crowell, 59. Address: 310 Mavis Dr, Los Angeles, Calif. 90065.

KUBE, HAROLD D(EMING), b. Buffalo, Wyo, June 16, 10; m. 34; c. 2. ECONOMICS, FINANCE. B.Sc, Nebraska, 32; M.B.A, Harvard, 34. Silver tax clerk analyst, U.S. Bur. Internal Revenue, 34-35; asst. economist, Farm Credit Admin, 35-36; economist, div. mfrs, U.S. Bur. Census, 36-41; statistician, aircraft ord. & tools div. & contract distribution br, War Prod. Bd, 41-42, prin. economist, statist. div, mach. tools br, 42, asst. chief. res. study br, stockpiling & transportation div, 42-43; dir. planning & res. div, Smaller War Plants Corp, 43-44; economist, U.S. Dept. Commerce, 46-48; consult. econ. study corn wet-milling indust, Cambridge Group, 48-50; dir. econ. dept, Nat. Found. Infantile Paralysis, 50-51; indust. specialist, nat. prod. admin, U.S. Dept. Commerce, 51, consult, indust. eval. bd, 51-52; nat. security resources bd, Stanford Res. Inst, 52; secy-treas. & bus. mgr. finance, Jansky & Bailey, Inc, 52-60; asst. to v.pres. & treas, Atlantic Res. Corp, 60-63; PARTNER, RESOURCES DEVELOP. ASSOCS, 64- Consult, President's Mat. Policy Cmn, 51. Treas, Greater Wash. Indust. Investments, Inc, 60-63, dir, 60-; Fauquier Savings & Loan Asn, 61-; prof. eng. mgt, George Washington, 63-64. U.S.N, 44-46, Lt. Econ. Asn; Inst. Elec. & Electronics Eng. Development and growth of small business, especially research and development industries and study of industrial economics and finance. Publ: Co-auth, Changes in distribution of manufacturing wage earners 1899-1939; Industry action to combat pollution, Harvard Bus. Res, 9-10/66. Address: Fauquier Farm, R.F.D. 1, Broad Run, Va. 22014.

KUBIE, DR. LAWRENCE S(CHLESINGER), Neurol. Psychiat, see 11th ed, Phys. & Biol. Vols. & Suppl. IV.

KUBIS, PROF. JOSEPH F(RANCIS), b. Brooklyn, N.Y, Mar. 13, 11; m. 37; c. 2. PSYCHOLOGY. A.B, St. John's (N.Y), 32; M.A, Fordham, 35, Ph.D. (psychol), 37. Lectr. PSYCHOL, sch. soc. work, FORDHAM, 33-35, asst, GRAD. SCH, 33-37, instr, 37-38, asst. prof, 38-44, assoc. prof, 44-53, PROF, 53- Consult, Vet. Admin; NASA; city & state law enforcement agencies. Psychol. Asn; Psychomet. Soc; Biomet. Soc; Statist. Asn; Personnel & Guid. Asn; Math. Asn; Inst. Math. Statist. Emotions and psychopathology, especially instrumental methods of measurement and appraisal; application of experimental design in therapy and interpersonal relations. Address: 37-18 88th St, Jackson Heights, N.Y. 11372.

KUBLER, DR. GEORGE, Hist. of Art, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KUBLIN, PROF. HYMAN, East Asian Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KUBOTA, DR. AKIRA, b. Sacramento, Calif, Aug. 30, 32. POLITICAL SCIENCE. B.A, Tokyo, 57; M.A, Michigan, 62, Ph.D.(polit. sci), 66. Res. asst. polit. sci, Center Japanese Studies, MICHIGAN, 62-66, fel, Japan, 66-67, STUDY DIR, SURV. RES. CENTER, 68- Asst. study dir, surv. res. center, Michigan, 65. U.S.A, 57-59. Polit. Sci. Asn; Asn. Asian Studies. Comparative government and political behavior; survey research on Japan. Publ: Higher civil servants in postwar Japan, Princeton, (in press). Address: 2050 2A Pauline Blvd, Ann Arbor, Mich. 48103.

KUBZANSKY, DEAN PHILIP E(UGENE), b. Brooklyn, N.Y, Aug. 11, 28. PSYCHOLOGY. B.S, City Col. New York, 50; Ph.D.(psychol), Duke, 54. Fel. psychol, Mass. Gen. Hosp, 56-57; chief psychologist, Boston City Hosp, 57-60; asst. prof. psychol, BOSTON, 60-64, assoc. prof, 64-67, PROF. PSYCHOL. & DEAN GRAD. SCH, 67-, asst. dean, 64-66, acting dean, 66-67. Res. assoc, med. sch, Harvard, 57- Consult, U.S. Naval Med. Res. Center, Md, 63-65; mem, alcoholism & alcohol probs. rev. cmt, Nat. Inst. Ment. Health, 67- U.S.A, 54-56. AAAS: Psychol. Asn. Perceptual and cognitive development; reduced environmental stimulation; sensory deficit and cognitive processes. Publ: Co-ed, Sensory deprivation; auth, The effects of reduced environmental stimulation on human behavior, In: The Manipulation of human behavior. Address: 242 Lake Ave, Newton Highlands, Mass. 02161.

KUCHAN, DR. ANTHONY M, JR, b. Canton, Ill, Apr. 21, 30; m. 53; c. 5. PSYCHOLOGY. B.A, St. Ambrose Col, 52; M.A, Bradley, 55; Ph.D.(psychol), Purdue, 64. Jr. engr, Caterpillar Tractor Co, 52-54; psychometrist, Bradley, 54-55; asst, psychol. clin, Purdue, 55-57; psychol. intern, Galesburg State Res. Hosp, 57-58, staff psychologist, 58-60; instr. PSYCHOL, MARQUETTE, 60-64, ASST. PROF, 64-, ACTING ASST. DEAN GRAD. SCH, 67-, clin. psychologist, counselling center & univ. health serv, 60-64, ment. health coordinator, col. nursing, 60-65, summers, chief field assessment officer, Marquette & Peace Corps, 64-66. Consult, St. Charles Boy's Home, 64-; House of the Good Shepherd, 65-; Milwaukee Urban Day Sch, 67- Psychol. Asn. Effects of group process upon behavioral and attitudinal change; early life antecedents to vocational choice; differential motivation in various humanitarian endeavors. Address: Dept. of Psychology, Marquette University, 1131 W. Wisconsin Ave, Milwaukee, Wis. 53233.

KUCHEL, DR. E(LDRED) R(USSEL), b. Kingsley, Iowa, Mar. 14, 18; m. 37; c. 3. ECONOMICS. Ph.D, Iowa, 54. Instr. econ, Wyoming, 46-55, asst. prof, 55-57, assoc. prof, 57-59, prof, 59-62, head dept. econ, sociol, anthrop. & geog, 57-60, acting asst. dean, col. arts & sci, 60-62; dean, BRADLEY.

62-63, V.PRES. ACAD. AFFAIRS, 63- U.S.N, 43-46, Lt. Econ. Asn; Planning Asn. Labor economics; economic theory. Address: Bradley University, Peoria, Ill. 61606.

KUCHLER, PROF. A(UGUST) W(ILHELM), Phytogeog, see 11th ed, Phys. & Biol. Vols.

KUDER, DR. FREDERIC, b. Holly, Mich, June 23, 03; m. 31. PSYCHOLOGY. A.B, Arizona, 25; M.A, Michigan, 29; Ph.D.(psychol), Ohio State, 37. Exam, Bd. Exams, Ill, 36-40; personnel methods consult, Soc. Security Bd, 40-42; chief test construct. & rev. unit, U.S. Civil Serv, 42-43; chief civilian studies sect, info. & ed. div, U.S. War Dept, 43-45, consult, 45-47; prof. psychol, Duke, 48-63; PRES, PERSONNEL PSYCHOL, INC, 48- Ed, Ed. & Psychol. Measurement, 40-; Personnel Psychol, 48-52, 58-64. AAAS; fel. Psychol. Asn; Psychomet. Soc; fel. Sociol. Asn. Psychological measurement; vocational preferences; aptitude testing; occupational interest survey. Publ: Preference record, vocational; Preference record, personal; Activity preferences and vocational choice. Address: Box 6907, College Station, Durham, N.C. 27708.

KUEHN, DR. ALFRED A(RTHUR), b. North Braddock, Pa, Jan. 2, 31; m. 54. BEHAVIORAL SCIENCE, ECONOMICS. B.S, Carnegie Inst. Tech, 52, M.S, 54, fel, 56-58, Ph.D.(indust. admin), 58. Instr. INDUST. ADMIN, DEPT. ADMIN. & MGT. SCI, CARNEGIE- MELLON UNIV, 54-56, asst. prof, 58-62, ASSOC. PROF, 62- Mkt. consult, Mkt. Res. Corp. of Am, N.Y, 56-; Lever Bros. Co, 57-; Scott Paper Co, Pa, 61- Econ. Asn; Mkt. Asn; Inst. Mgt. Sci. Consumer purchasing behavior, especially the influence of product characteristics, advertising, retail availability and price upon brand choice and marketing strategy. Publ: Model for budgeting advertising, In: Mathematical models and methods in marketing; co-ed, Quantitative techniques in marketing analysis; co-auth, The Carnegie Tech management game, J. Bus. Address: Dept. of Administration & Management Science, Carnegie-Mellon University, 5000 Forbes Ave, Pittsburgh, Pa. 15213.

KUEHN, DR. JOHN LAMPERT, b. Toledo, Ohio, Nov. 8, 30; m. 52; c. 6. PSYCHIATRY, PSYCHOLOGY. A.B, Ohio Wesleyan, 52; M.D, Ohio State, 57; fel. & cert, Menninger Sch. Psychiat, 64. Res. asst. neuropsychiat, Washington (St. Louis), 52-53; intern, Riverside Methodist Hosp, Columbus, Ohio, 57-58; resident psychiat, Vet. Admin. Hosp, Topeka, Kans, 61-64; instr. psychiat. & univ. psychiatrist, Indiana, 64-66; ASST. PROF. PSYCHIAT. & ASSOC. PROF. PSYCHOL, LA. STATE, 66-, CLIN. DIR. COUNSELING & MENT. HEALTH SERV, 66- Assoc. proj. psychiatrist, Peace Corps, Indiana, 65, chief proj. psychiatrist, corps center, Leland Col, 68, summer res. psychiatrist, training center, Univ. Hawaii, 66; psychiat. consult, Baton Rouge Regional Ment. Health Center, La, 66-; vis. physician, Charity Hosp, New Orleans, 67- Dipl. psychiat, Am. Bd. Psychiat. & Neurol, 67. Med.C, U.S.N, 56-57, 58-61, Res, 61-, Comdr. AAAS; Psychiat. Asn; Col. Health Asn. College mental health; mental health education for non-psychiatrists; ethical problems and philosophic assumptions in the practice of medicine; nursing education; community psychiatry. Publ: Encounter at Leyden: Mahler consults Freud, Psychoanal. Rev, winter 65-66; College psychiatry—a new dimension in education, J. Am. Col. Health Asn, 4/66; The practice of medicine: transference, dialectic, and human encounter, Post Grad. Med, 11/66. Address: Louisiana State University Hospital, Baton Rouge, La. 70803.

KUEKES, DR. EDWARD GRAYSON, b. Berea, Ohio, Aug. 12, 24; m. 50; c. 2. PSYCHOLOGY. B.A, Baldwin-Wallace Col, 49; Ph.D, Texas, 55. Trainee clin. psychol, Vet. Admin. Hosp, Temple, Tex, 51-52, Waco, 52-53, Vet. Admin. Ment. Hyg. Clin, San Antonio, Tex, 54-55, clin. psychologist, 55-68, CHIEF CLIN. PSYCHOL. SERV, VET. ADMIN. HOSP, OKLAHOMA CITY, 68-; ASSOC. PROF. MED. PSYCHOL, SCH. MED, OKLAHOMA, 68- Consult, San Antonio State Hosp, 55-67. U.S.A, 43-46, Sgt. Psychol. Asn. Alcoholism; neurological disorders; psychotherapy; consultation to management. Address: Veterans Administration Hospital, Clinical Psychology Service 1160, 921 Northeast 13th St, Oklahoma City, Okla. 73104.

KUENNE, DR. ROBERT EUGENE, b. St. Louis, Mo, Jan. 29, 24; m. 57; c. 2. ECONOMICS. B.Jour, Missouri, 47; A.B, Washington (St. Louis), 48, M.A, 49; A.M, Harvard, 51, Ph.D.(econ), 53. Consult, Naval War Col, 54-55; DIR, GEN. ECON. SYSTS. PROJ, 55- U.S.A, 43-46, Sgt. Econ. Asn. General equilibrium theory; spatial economic theory; national security economics. Publ: The theory of general economic equilibrium, Princeton, 63; The attack submarine, Yale, 65; The Polaris Missile strike, Ohio State Univ, 66. Address: 250 Spruce St, Princeton, N.J. 08540.

KUENZLI, PROF. ALFRED E(UGENE), b. Springfield, Ohio, July 24, 23; m. 51; c. 1. PSYCHOLOGY. A.B, Ohio, 50, M.A, 51; Ed.D.(psychol), Indiana, 53. Asst. psychol, Indiana, 52-53; researcher soc. rel, Harvard, 53-54; asst. prof. PSYCHOL, State Univ. Col. Albany (N.Y), 54-56; Wis. State Col, River Falls, 56-58; assoc. prof, SOUTHERN ILLINOIS, 58-61, PROF, 61- U.S.M.C, 42-44. Psychol. Asn. Personality predispositions and foreign policy attitudes; ideological analysis of mass media; applications of social psychology to education. Publ: The phenomenological problem, Harper, 59; Reconstruction in religion, Beacon, 61; Functional and configurational psychologies of John Dewey and Kurt Lewin, Ind. Univ. Studies Ed. Address: 2302 Fairview Dr, Alton, Ill. 62005.

KUETHE, DR. JAMES L(OUIS), b. Baltimore, Md, Oct. 8, 33; m. 60; c. 1. PSYCHOLOGY. B.A, Hopkins, 55, M.A, 55, Ph.D.(psychol), 58. Asst. prof. psychol, Teachers Col, Columbia, 58-59; psychol. & ed, HOPKINS, 59-63, ASSOC. PROF. ED, 63- Psychol. Asn. Social and non-social schemas in thinking; the role of motivation and personality in verbal learning; personality and anxiety as determinants of behavior; study of education as a discipline. Publ: The acquiencence response set and the psychasthenia scale & Social schemas, J. Abnorm. & Soc. Psychol; The positive response set as related to task performance, J. Personality. Address: Dept. of Psychology, Johns Hopkins University, Baltimore, Md. 21218.

KUFFEL, DR. STANLEY, b. Graham, Minn, Mar. 24, 05; m. 28; c. 2. COUNSELING, GUIDANCE. A.B, Col. St. Thomas, 27; M.A, Minnesota, 38; Ed.D, Western Reserve, 53. Supt, pub. schs, Minn, 31-42; dir. guid, State Bd. Higher Ed, N.Dak, 46-47; voc. counsr, Vet. Admin, Fargo, 47-48, personal counsr, Vet. Admin. Hosp, 48-50; coordinator student personnel, Bemidji State Col, 50-51; PROF. PSYCHOL, WESTERN MICHIGAN, 52-, chmn. div. sci. & math, 59, head dept. psychol, 52-65. Consult. psychologist, Borgess Hosp, Kalamazoo, Mich, 59- U.S.N, 42-45, Res, 45-, Comdr. AAAS; Rehab. Asn. Thought control and its implications for military service. Publ: Careers in the United States Navy; Student personnel services in Minnesota and North Dakota teachers colleges; Training manual for rating group training officers. Address: Dept. of Psychology, Western Michigan University, Kalamazoo, Mich. 49001.

KUGELMASS, DR. SOLOMON, b. New York, N.Y, July 4, 26; m; c. 2. PSYCHOLOGY. B.A, George Washington, 49; M.A, Columbia, 50, Ph.D, 53. Intern psychol, State Psychiat. Inst, N.Y, 50-53, res. psychologist, 53-54; clin. psychologist, Kfar Shaul Govt. Ment. Hosp, Jerusalem, Israel, 54-56; res. psychologist, psychophysiol. lab, dept. neurol, HEBREW UNIV, 56-57, instr. PSYCHOL, 57-58, lectr, 58-66, ASSOC. PROF, 66-, HEAD DEPT, 58- Nat. Inst. Ment. Health spec. fel, 63-64. U.S.A, 44-46. Am. Psychol. Asn; Israel Psychol. Asn. Emotional development; perception; experimental abnormal psychology. Publ: Relation of area and luminance to the threshold for C.F.F, Am. J. Psychol; co-auth, Intentionality in moral judgment, Child Develop, 67 & The role of lying in psychophysiological detection, Psychophysiology, 67. Address: Dept. of Psychology, Hebrew University, Jerusalem, Israel.

KUH, PROF. EDWIN, b. Chicago, Ill, Apr. 13, 25; m. 47; c. 5. ECONOMICS. B.A, Williams Col, 49; Ph.D, Harvard, 55. Economist, Econ. Coop. Admin, 49-50; President's Mat. Policy Cmn, 51; lectr. econ, Hopkins, 53-55; asst. prof. ECON. & FINANCE, MASS. INST. TECH, 55-58, assoc. prof, 59-62, PROF, 62- Ford faculty res. fel, 61-62. Consult, U.S. Treas, 59- U.S.A, 43-46. Econ. Asn; Economet. Soc; Statist. Asn. Publ: Co-auth, Investment decision; auth, Capital stock growth; Validity of cross-sectionally estimated behavior equations in time series applications, Econometrica. Address: Dept. of Economics & Social Science, Massachusetts Institute of Technology, Cambridge, Mass. 02139.

KUHINKA, PROF. ERNEST M(ICHAEL), b. Rimaszombat, Hungary, June 14, 22; nat; m. 59. MEDICAL SOCIOLOGY. B.A, Debrecen, 45; Bernardinum fel, Utrecht, 48-52, M.A, 50, Ph.D, 52; New Sch. Soc. Res, 56. Researcher, Cath. Inst. Socio-Ecclesiastical Studies, The Hague, Netherlands, 53-54; chief planner, Provincial Country & Town Planning, Haarlem, 54-56; res. asst, Nat. Coun. Churches, N.Y, 56-57; instr. sociol, Dickinson Col, 57-59, asst. prof, 60-62; vis. prof, Wisconsin, Madison, 62-63; pub. health behav. scientist, Pa. Dept. Health & Welfare, 63-67; ASSOC. PROF. MED. SOCIOL, HAHNEMANN MED. COL, 67- Asst. secy, Res. Cmt. European Refugee Prob, The Hague, 53-55. Consult, Planning Inst. Sociol. Re-orgn. City of Haarlem, 55-56. Sociol. Asn; Pop. Asn; Ecol. Soc. Methodological designs; hospital and health facility planning; rehabilitation; community development; attitude and opinion studies; regional planning. Publ: Co-auth, Unusual child, 62; Changing aspects of foreign language teaching, Philos. Library, 67 & Sociol. theory, Gaziabad, 67. Address: Dept. of Community Medicine, Hahnemann Medical College, 235 N. 15th St, Philadelphia, Pa. 19102.

KUHL, DR. WILLIAM O(WEN), b. Charles City, Iowa, Mar. 12, 26; m. 59; c. 2. ECONOMICS. B.A, Iowa State Teachers Col, 47; M.S, Wisconsin, 49, Ph.D, 57. Asst. prof. labor ed, Wisconsin, 52-60; DIR. RES. & ED, INT. BROTHERHOOD BOILERMAKERS, IRON SHIPBUILDERS, BLACKSMITHS, FORGERS & HELPERS, 60- Mem, Nat. Citizens Adv. Cmt. Voc. Rehab, 66-68. U.S.A, 44-46. Econ. Asn; Indust. Rels. Res. Asn. Political activity of the American labor movement; educational activities of American unions; labor's analysis of wage incentive and work measurement programs in American industry. Publ: Understanding time study. Address: 9401 Outlook Dr, Overland Park, Kans. 66207.

KUHLEN, PROF. RAYMOND G(ERHARDT), Psychol, see 10th ed, Soc. & Behav. Vols, deceased 67.

KUHLMAN, PROF. CLARENCE E(UGENE), b. Austin, Tex, July 14, 07. ECONOMICS. A.B. & A.M, Texas, 33; fel, North Carolina, 36-38, Ph.D, 41. Assoc. prof, N.Tex. State Col, 35-36; instr, North Carolina, 38-39; supvr. state munic. govt. surv, Works Progress Admin, N.C, 39-41; sr. econ, analyst, Am. Embassy, Buenos Aires, Argentina, 45-46; assoc. prof, Mississippi, 46-48; from assoc. prof. to prof. pub. utilities & transportation, Tennessee, 48-59; ASSOC. PROF. BUS. ADMIN, THE CITADEL, 59- U.S.N.R, 41-45, Comdr. Arbit. Asn. Public utility; municipally owned electric utilities in North Carolina. Address: The Citadel, Charleston, S.C. 29409.

KUHLMAN, PROF. JOHN MELVILLE, b. Lamont, Wash, June 25, 23; m. 50; c. 3. ECONOMICS. B.A, Wash. State Col, 48; M.S, Wisconsin, 49, fel, 51-53, Ph.D, 53. Instr. ECON, Wisconsin, 51-53; asst. prof, Richmond, 53-55; Cincinnati, 55-59, ASSOC. PROF, 59-61; MISSOURI, COLUMBIA, 61-, ASSOC. DEAN GRAD. SCH, 67-, chmn. dept, 66-67. Ford Found. faculty study fel, Stanford, 59-60. Consult, N.W. Elec. Power Coop, 64-65; Mo. State Hwy. Cmn, 65-67; Nat. Sci. Found, 65-; Aluminum Co. Am, 66. U.S.A, 43-46. Econ. Asn. Price-fixing rings and collusion. Publ: The Procter and Gamble decision, Quart. Rev. Econ. & Bus, 66; A macroeconomic theory of workable competition, West. Econ. J, 66; Estimation of damages in antitrust action, South. Econ. J, 4/67. Address: Dept. of Economics, University of Missouri, Columbia, Mo. 65201.

KUHN, PROF. ALFRED, b. Reading, Pa, Dec. 22, 14; m. 41; c. 3. LABOR ECONOMICS. A.B, Albright Col, 35; A.M, Pennsylvania, 41, Ph.D, 51. Hearing officer, region III, War Labor Bd, 45-46; instr, Wharton Sch. Finance, Pennsylvania, 46-49; asst. prof. labor econ, CINCINNATI, 49-61, PROF, 61-65, ECON. & SR. RES. ASSOC. PSYCHIAT, 65-, FEL, GRAD. SCH, 67- U.S.N, 45. Indust. Rel. Res. Asn; Soc. Gen. Syst. Res; Econ. Asn. Publ: Arbitration in transit; Labor: institutions and economics; The study of society: a unified approach, Irwin, 63. Address: Dept. of Economics, University of Cincinnati, Cincinnati, Ohio 45221.

KUHN, PROF. ARNOLD J(OSEPH), b. Chicago, Ill, Aug. 25, 16; m. 53; c. 1. POLITICAL SCIENCE. A.B, Chicago, 37, A.M, 46, fel, 47-48, Ph.D.(polit. sci), 49. Asst. prof. polit. sci, DePauw, 48-50; Syracuse, 50-51; dir. pub. rels, Materials for Israel, Inc. & Am. Financial & Develop. Corp. for Israel, 51-54; acct. exec, pub. rels, Mayer & O'Brien, Inc, 55-56; exec. dir. Chicago Cmt. Alcoholism, 56-63; PROF. POLIT. SCI, CHICAGO CITY COL, WRIGHT CAMPUS, 63- Lectr, univ. col, Chicago, 54- Consult, Off. Res. Opers, D.C, 52. Ed, Signposts. U.S.A, 41-45. Polit. Sci. Asn; Soc. Pub. Admin; Adult Ed. Asn; Nat. Rehab. Asn. Public opinion and propaganda; communications; evaluation and modification of attitudes and their formation. Publ: Breaking through the barrier; No cup of kindness; Saving men and money. Address: 8108 S. Oglesby Ave, Chicago, Ill. 60617.

KUHN, PROF. HAROLD W(ILLIAM), Math, see 11th ed, Phys. & Biol. Vols.

KUHN, PROF. JAMES W(ESLEY), b. Dundee, Ore, Apr. 19, 24; m. 51; c. 1. ECONOMICS. B.A, Harvard, 49; M.A, Yale, 50, Ph.D.(econ), 54. Asst. prof. econ, Pomona Col, 53-54; vis. asst. prof, Oregon, 54-55; asst. prof. INDUST. RELS, GRAD. SCH. BUS, COLUMBIA, 55-59, from assoc. prof. to PROF, 59- Fulbright award, Australia, 51; Ford Found. faculty fel, 61-62. U.S.A.F, 42-46, 49-56, Lt. Econ. Asn; Indust. Rels. Res. Asn. Publ: Bargaining in the grievance process; co-auth, Collective bargaining; auth, Scientific and managerial manpower in nuclear industry. Address: Graduate School of Business, 706 Uris Hall, Columbia University, New York, N.Y. 10027.

KUHN, PROF. MANFORD H(INSHAW), Sociol, Soc. Psychol, see 10th ed, Soc. & Behav. Vols, deceased 63.

KUHN, PROF. THOMAS S(AMUEL), Hist. of Sci, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KUHN, PROF. TILLO E(RNST), b. Munich, Germany, Nov. 1, 19; nat. Can; m. 56; c. 2. ECONOMICS. B.Sc, London Sch. Econ, 53; Bronfman fel, McGill, 56-57, Ph.D, 57. Economist, Can. Good Rds. Asn, 54-56; asst. econ, McGill, 56-57; economist, econ. policy div, Can. Dept. Transport, 57-59; asst. prof. ECON, sch. bus. admin, California, Berkeley, 59-67; PROF, YORK (ONT), 67- Consult, Can. Trucking Asns, 55-59; Ont. Dept. Hwys, Toronto, Can, 61- Econ. Asn; Can. Polit. Sci. Asn; Brit. Inst. Transport. Transportation; public utilities, public enterprise and engineering economics; capital investment planning; public and highway finance, resource and development economics. Publ: Public enterprise economics and transport problems; Use of economic criteria for highway investment planning & Economic concepts of highway planning, Hwy. Res. Bd. Bull, Nat. Acad. Sci. Address: Dept. of Economics, York University, Toronto 12, Ont, Can.

KUHN, DR. WERNER FRANZ, b. Frankfort, Germany, Nov. 17, 27; nat; m. 49; c. 3. PSYCHOLOGY. B.S, Northwestern, 51; M.A, Drake, 54; Ph.D, Bonn, 58. Psychol. intern, Ment. Health Inst, Independence, Iowa, 51-52; mem. staff, State Hosp, Logansport, Ind, 53-55, DIR. PSYCHOL, 58-59; CENT. STATE HOSP, 59- U.S.A, 46-47. Psychol. Asn. Validation of clinical methods; microgenesis; psychopharmacology. Address: Dept. of Psychology, Central State Hospital, Indianapolis, Ind. 46222.

KUHN, PROF. W(ILLIAM) E(RNST), b. St. Gallen, Switz, Feb. 15, 22; nat; m. 52; c. 3. ECONOMICS. Dr. Econ, Swiss Sch. Econ. & Pub. Admin, 49. Asst. prof. econ, Augustana Col, 49-52; Wyoming, 52-57, assoc. prof, 57-62; int. economist, Fed. Reserve Bank of Chicago, 62-64; Fulbright lectr. ECON, Univ. Dacca, 64-65; PROF, Roosevelt, 65-66; NEBRASKA, 66- Ford Found. summer faculty res. fel, Washington (Seattle), 60. Consult, Continental Ill. Nat. Bank & Trust Co, 65. Econ. Asn. Economic thought; money and banking. Publ: Growth of South Dakota banking from 1945-1950; The evolution of economic thought, South-Western Pub, 63; History of Nebraska banking: a centennial retrospect, Bur. Bus. Res, Univ. Nebraska, 68. Address: Dept. of Economics, University of Nebraska, Lincoln, Nebr. 68508.

KUHNS, DR. E(DWARD) DOUGLAS, b. Hood River, Ore, Dec. 9, 23. ECONOMICS. A.B, Reed Col, 45; Maxwell scholar, Syracuse, 45-46, A.M, 47, Ph.D.(econ), 52. Instr. econ, Colgate, 48-49; asst. prof, Lake Forest Col, 49-55; assoc. prof, Union Col.(N.Y), 55-58; economist, Int. Brotherhood Pulp, Sulphite & Paper Mill Workers, D.C, 58-66; PENSION & INS. COORDINATOR, INDUST. UNION DEPT, AM. FEDN. LABOR-CONG. INDUST. ORGN, 66- Econ. Asn. Economic theory and industrial relations; comparative economic systems. Publ: Ed. & co-auth, Automation: economic implications and impact upon collective bargaining, Int. Brotherhood Pulp, Sulphite & Paper Mill Workers, 63; co-auth, Use of accounting data in decision making, Acct. Dept, Ohio State Univ, 67. Address: 7808 Takoma Ave, Takoma Park, Md. 20012.

KUHNS, DR. EILEEN P(EASE), b. Portland, Ore, Apr. 7, 23; m. 45; c. 4. SOCIOLOGY. B.A, Reed Col, 45; M.A, Syracuse, 47, Ph.D.(sociol), 54. Instr. sociol. & soc. sci. Lake Forest Col, 50-54, lectr. sociol, 54-55; res. asst. prof, Union (N.Y), 56-58; asst. prof. sociol, Montgomery Jr. Col, 58-62, asst. dean, 62-65, exec. dean, Rockville campus, 65-66, exec. dean col, 66-67; DEAN COL, MT. VERNON JR. COL, 67- Lectr, American Univ, 59- Consult, Wash. Res. Assoc; Int. Bus. Mach. Corp, 67- Sociol. Asn. Publ: Institutional participation of women in a California town in the structures of economic allocation of integration and of expression. Address: Mt. Vernon Junior College, 2100 Foxhall Rd, Washington, D.C. 20007.

KUHRE, DR. BRUCE EDWARD, b. Warren, Pa, Nov. 17, 36; m. 62; c. 2. SOCIOLOGY. B.A, Thiel Col, 58; Lutheran Theol. Sem, 60-62; M.A, Pa. State, 62, Ph.D.(sociol), 66. Instr. SOCIOL, OHIO, 65-66, ASST. PROF, 66-, UNIV. RES. GRANT, 67- Sociol. Asn; Soc. Sci. Study Relig. Study of the religious institution from a multi-dimensional perspective; influence of various socio-cultural variables on religious involvement. Publ: Multi-dimensional religiosity and its social correlates among a collegiate population, Dissertation Abstracts. 67. Address: Dept. of Sociology, Ohio University, Athens, Ohio 45701.

KUIC, PROF. VUKAN, b. Sarajevo, Yugoslavia, Feb. 17, 23; nat; m. 57; c. 4. COMPARATIVE GOVERNMENT. Col. Commerce, Vienna, 42-44; Trieste, 45-46; M.A, Colorado, 53; Ph.D, Chicago, 58. Asst. prof. polit. sci, Alabama, 56-63, assoc. prof. COMP. GOVT, 63-66; PROF, SOUTH CAROLINA, 66- Vis. fel, Center Study Democratic Insts, Santa Barbara, Calif, 65-66. Polit. Sci. Asn. European governments; theories of authority; Federalism. Publ: Ed, The tradition of natural law, Fordham Univ. Press, 65; Theory and practice of the American presidency, Rev. Polit, 7/61. Address: Dept. of Political Science, University of South Carolina, Columbia, S.C. 29208.

KUKUK, DR. WILLIAM D(UANE), b. Fond du Lac, Wis, Oct. 8, 36; m. 66; c. 1. SOCIAL PSYCHOLOGY. B.S, Carroll Col.(Wis), 58; M.A, Mich. State, 60; Nat. Defense Ed. Act fel, Brigham Young, 64-67, Ph.D.(soc. psychol), 67. Asst. PSYCHOL, Mich. State, 59-60; Brigham Young, 63-64, asst. prof, 67-68; ASSOC. PROF, ST. CLOUD STATE COL, 68- U.S.A.R, 56-62. Psychol. Asn. Attitude change; personality and aesthetic correlates of the open-minded and closed-minded person; employee morale and satisfaction. Address: Dept. of Psychology, St. Cloud State College, St. Cloud, Minn. 56301.

KULBERG, DR. GORDON ERIC, b. Beverly, Mass, Nov. 26, 34; m. 59. PSYCHOLOGY. B.S, Tufts, 56; M.S, Iowa State, 58; Ph.D.(psychol), Vanderbilt, 65. Instr. psychol, Lafayette Col, 62-65, asst. prof, 65-66; ASST. PROF. PSYCHOL. & DIR. CLIN. TRAINING, MAINE, 66- Consult, student health serv, Lafayette Col, 65-66; Vet. Admin. Center, Togus, Maine, 66- Psychol. Asn. Effects of personality factors on perception; relationship of unusual feelings to psychopathology. Publ: Co-auth, Some life history antecedents of engineering interests, J. Ed. Psychol, 59. Publ: Dept. of Psychology, University of Maine, Orono, Maine 04473.

KULSKI, PROF. JULIAN EUGENE, b. Warsaw, Poland, Mar. 3, 29; U.S. citizen; m. 59; c. 2. CITY & REGIONAL PLANNING. B.Archit, Yale, 53, Kosciuszko fel, 53-54; Ph.D.(city planning), Warsaw Inst. Tech, 66. Vis. prof. urban planning & archit, Notre Dame, 60-65; PROF. urban planning, George Washington, 65-67; CITY PLANNING, HOWARD, 67- Consult, Agency Int. Develop, 62-63; Int. Bank Reconstruct. & Develop, 64-67. Chmn. cmt. continuing ed, Asn. Collegiate Schs. Archit, 65-67. Inst. Planners; Acad. Polit. & Soc. Sci. Urban design in central urban spaces. Publ: Land of urban promise, Univ. Notre Dame, 67; Continuing architectural education, 2/65 & The virile roots, 12/65, J. Am. Inst. Archit. Address: 6030 Woodland Terr, McLean, Va. 22101.

KULSKI, PROF. W(LADYSLAW) W(SZEBOR), b. Warsaw, Poland, July 27, 03; nat; m. 38. POLITICAL SCIENCE. LL.M, Warsaw Sch. Law, 25; LL.D, Paris Sch. Law, 27. Off, Polish For. Off, League Nations, 28-33, chief legal adv, 36-40; counsr, Polish Legations, 33-36; Polish Embassy, London, Eng, 40-41, minister plenipotentiary, 41-45; prof. POLIT. SCI, Alabama, 47-51; Maxwell Sch, Syracuse, 51-64; JAMES B. DUKE PROF, DUKE, 64- Guggenheim Found. fel, 61-62. Polit. Sci. Asn; Soc. Int. Law; Asn. Adv. Slavic Studies. International relations; comparative government. Publ: Soviet regime; Peaceful co-existence; De Gaulle and the World, Syracuse Univ. Press, 66. Address: Dept. of Political Science, Duke University, Durham, N.C. 27706.

KUMATA, PROF. HIDEYA, b. Seattle, Wash, May 8, 21; m. 48; c. 2. SOCIAL PSYCHOLOGY, MASS COMMUNICATION. B.A. & M.A, Iowa, 51; Ph.D.(commun. & soc. psychol), Illinois, 58. From instr. to assoc. prof. COMMUN. & SOCIOL, MICH. STATE, 56-63, PROF, 63-, DIR. INT. COMMUN. INST, 67- Mich. State distinguished faculty award, 67. U.S.A, 44-49, 51-53, Res, 53-, Maj. AAAS; Sociol. Asn; Soc. Appl. Anthrop; Soc. Int. Develop. Psycholinguistics; human interaction processes; international communication effects. Address: International Communication Institute, Michigan State University, East Lansing, Mich. 48823.

KUMLER, DR. MARVIN L(EE), b. Bloomington, Ill, Nov. 19, 40. CLINICAL PSYCHOLOGY. B.A, Northwestern, 62, M.A, Kent State, 64, Ph.D.(clin. psychol), 68; California, Los Angeles, 64-65. Resident, med. sch, Oregon, 67-68; ASST. PROF. PSYCHOL, BOWLING GREEN STATE, 68- Psychol. Asn. Process of psychotherapy; psychotherapy of the sociopath; physiological correlates of altered behavioral states; short-term memory; human information processing. Publ: Co-auth, Conscious perseveration and persistence of autonomic activity: a replication, J. Psychol, 65 & The effects of response code and signal probability in a numeral-naming task, Can. J. Psychol, 66. Address: Dept. of Psychology, Bowling Green State University, Bowling Green, Ohio 43402.

KUMNICK, DR. LILLIAN S(CHULENBURG), Psychol, see 11th ed, Phys. & Biol. Vols.

KUNCE, DR. JOSEPH T(YREE), b. St. Louis, Mo, Dec. 14, 28; m. 54; c. 3. COUNSELING, PSYCHOLOGY. A.B, Washington (St. Louis), 50, M.A, 54; Ph.D, Missouri, 59. Teacher, high sch, Mo, 53-56; counseling psychol. trainee, Vet. Admin, 56-59, counseling psychologist, Vet. Admin. Hosp, Jefferson Barracks, 59-63; Univ. Washington Hosp, 63-66; private practice, 66-67; ASSOC. PROF. ED. & RES. DIR. REHAB. INST, MISSOURI, COLUMBIA, 67- Consult, res. proj, St. Louis Voc. Counseling Serv, 62-; voc. consult, Soc. Security Admin, 64-; psychol. consult, Delta Rehab. Found, Everett, Wash, 65-67; Wash. State Div. Voc. Rehab, 66-67; rehab. proj, Alaskan Native Hosp, 66-68; Fed. Offenders Proj, Seattle, Wash, 66-68. U.S.A, 51-52. Psychol. Asn; Rehab. Asn; Personnel & Guid. Asn. Physically, emotionally and culturally handicapped; counseling process and outcomes. Publ: Co-auth, Projective drawings of brain injured subjects, J. Perceptual & Motor Skills, 66; Maze performance and personal, social and economic adjustment of Alaskan natives, J. Soc. Psychol, 67; auth, Vocational interest and accident proneness, J. Appl. Psychol, 67. Address: 220 Mark Twain, University of Missouri College of Education, Columbia, Mo. 65201.

KUNDRAT, DR. JOHN, b. Cleveland, Ohio, June 13, 21; m. 50. PSYCHOLOGY. B.A, Ohio State, 49; M.A, Kent State, 50; Ph.D, Texas, 54. Soc. sci. asst. & intern, Texas, 52-53; CLIN. PSYCHOLOGIST, Ment. Hyg. Clin, Asheville, N.C, 55-57; FAIRHILL PSYCHIAT. HOSP, 57-; CHILD TRAINING PROG. PSYCHOTHER, UNIV. HOSPS. OF CLEVELAND, 60- Supv. psychologist, Vet. Admin. Hosp, Cleveland, 63-67. Consult. psychologist, private practice, 67-; consult, Highland View Hosp, 67-; Heart Asn, 67- Med.C,

U.S.A, 42-45. Psychol. Asn. Child analysis; clinical and social psychology; perception. Address: 3281 E. Monmouth Rd, Cleveland Heights, Ohio 44118.

KUNERT, DR. KENNETH MICHAEL, b. Detroit, Mich, Mar. 1, 26. PSYCHOLOGY. A.B, Loyola (Ill), 49, M.A, 54; Ph.L, West Baden Col, 51, S.T.L, 58; Ph.D.(psychol), California, Berkeley, 65. Teacher-moderator, Loyola Acad, Chicago, Ill, 51-54; ASST. PROF. PSYCHOL, DETROIT, 65- AAAS; Psychol. Asn. Relationship of personality to vocational choice and to academic achievement; predicting suicide from relation to religious commitment. Address: Dept. of Psychology, University of Detroit, Detroit, Mich. 48221.

KUNG, DR. SHIEN-WOO, b. Chekiang, China, Mar. 19, 05; m. 31; c. 4. INTERNATIONAL ECONOMICS. B.A, N.Cent. Col.(Ill), 26, hon. LL.D, 61; D.C.S, N.Y. Univ, 30. Res. assoc. mgt. res, Commercial Press, Ltd, China, 30-32; ed, Chinese Econ. J, econ. policy & probs, Bur. For. Trade, 32-33, chief res. dept. overseas Chinese, 32-34; adj. prof. econ, Shanghai Col, China, 33-34; prof. & chmn. dept. int. trade, Hangchow Col, 34-36; mgr, Bank China, 36-49; U.S. rep. trade & investment, CENT. TRUST OF CHINA, 49-62, ADV, 62- Mem, For. Exchange Stabilization Bd, Cent. Bank China, 47-48. Econ. Asn; Asn. Asian Studies; Acad. Polit. & Soc. Sci. Publ: World immigration, 34 & Foreign trade of China, 35, Commercial Press, Ltd; Chinese in American life, Univ. Washington, 62. Address: 165 West End Ave, Apt. 16-E, New York, N.Y. 10023.

KUNIN, DR. THEODORE, b. New York, N.Y, Oct. 19, 24; m. 49; c. 1. INDUSTRIAL PSYCHOLOGY. B.S, Pa. State Col, 48; M.A, Western Reserve, 50, Ph.D, 54. Asst. psychol, personnel res. inst, Western Reserve, 50-52, res. assoc, 52-54, asst. dir, 54; indust. psychologist, Psychol. Serv. Pittsburgh, 54-57; partner, PSYCHOL. CONSULT. TO INDUST, 57-66, V.PRES, 66- Instr, Carnegie Inst. Tech, 59- U.S.N, 43-46. Psychol. Asn. Personnel research; selection studies; test development and interview validation; attitude surveys; consumer studies and motivation analysis; leadership. Publ: Construction of a new type of attitude measure, Personnel Psychol. Address: 1617 Zeuger St, Glenshaw, Pa. 15116.

KUNKEL, DR. JOHN HOWARD, b. Berlin, Germany, Nov. 14, 32; U.S. citizen; m. 62. SOCIOLOGY. B.A, Pomona Col, 54; M.A, Michigan, 55, Ph.D.(sociol), 60. From instr. to asst. prof. SOCIOL, ARIZONA STATE, 59-66, ASSOC. PROF, 66- Sociol. Asn; Anthrop. Asn; Econ. Asn. Analysis of behavioral, social and psychological aspects of economic development; analysis of social changes occurring in underdeveloped nations, especially Latin America. Publ: Values and behavior in economic development, Econ. Develop. & Cultural Change, 4/65; Individuals, behavior and social change, Pac. Sociol. Rev, 66; Behavioral aspects of the ecological approach to social organization, Am. J. Sociol, 7/67. Address: Dept. of Sociology, Arizona State University, Tempe, Ariz. 85281.

KUNO, DR. SUSUMU, Japanese & Computational Ling, see 5th ed, Dir. Am. Scholars, Vol. III, For. Lang, Ling. & Philol.

KUNREUTHER, DR. HOWARD CHARLES, b. New York, N.Y, Nov. 14, 38. ECONOMICS, MANAGEMENT SCIENCE. A.B, Bates Col, 59; Ford Found. fel, Mass. Inst. Tech, 62-63, Ph.D.(econ), 65; Fulbright grant, Economet. Inst, Netherlands, 63-64. Economist, Inst. Defense Anal, 64-66; ASST. PROF. APPL. ECON, GRAD. SCH. BUS, CHICAGO, 66- Econ. Asn; Econo-met. Soc; Inst. Mgt. Sci. Analysis of decision-making within the firm, especially application of operations research techniques to production-type problems; economic problems of recovery following disasters. Publ: Co-auth, The economics of natural disasters, Macmillan, 68; auth, Scheduling short-run production changes to minimize long-run expected costs, Mgt. Sci, 3/66; The case for comprehensive disaster insurance, J. Law & Econ, 4/68. Address: Graduate School of Business, University of Chicago, Chicago, Ill. 60637.

KUNSEMILLER, PROF. CHARLES FREDERIC, b. Denver, Colo, Nov. 12, 13; m. 38; c. 2. MARKETING. A.B, California, Los Angeles, 34; M.A, Chico State Col, 53; N.Y. Univ, 53; Ed.D.(bus. ed. psychol), Southern California, 61. Trainee, Firestone Tire & Rubber Co, 34-35, claims adjustor, 35-37, credit mgr, 37-38, sales rep, 38-41, territory mgr, 46-49; instr. BUS, CHICO STATE COL, 52-55, asst. prof, 55-58, assoc. prof, 58-65, PROF, 65- Div. real estate, State of Calif. res. grant, 64-66. U.S.A, 42-46, Capt. Mkt. Asn. Small business management practices and personality traits of small business owners. Publ: Co-auth, Principles of marketing, Pitman, 61; auth, Direct selling, State of Calif. Bur. Bus. Ed, 63 & Management practices and personality traits of small real estate brokers in northern California, Chico State Col, 66. Address: Division of Business, Chico State College, Chico, Calif. 95926.

KUNSMAN, PROF. CHARLES H(ENRY), JR, b. Washington, D.C, Sept. 20, 24. POLITICAL SCIENCE. B.A, California, 49, M.A, 55, Crown Zellerbach Found. scholar, 56, univ. travel grant, 60, Ph.D, 62; Copenhagen, 49-50; summer, Oxford, 49. Asst. polit. sci, California, 53-56; legis. asst. & consult, State Legis, Calif, 57-59; asst. prof. POLIT. SCI, San Jose State Col, 59-60; Nevada, 60-61; SAN JOSE STATE COL, 61-66, ASSOC. PROF, 66- U.S.A.F, 43-46. Polit. Sci. Asn. American and foreign political parties; government and politics of the British West Indies and the western American states. Publ: Contrib, Presidential nominating politics in 1952; co-ed, California legislature handbook; auth, Political parties in the West Indies, Venture, 64. Address: 781 Santa Barbara Rd, Berkeley, Calif. 94707.

KUNSTADTER, DR. PETER, b. Chicago, Ill, May 31, 31; m. 59. ANTHROPOLOGY. B.A, New Mexico, 52; M.A, Cornell, 53; Ph.D, Michigan, 61. Asst. dir. pub. health proj, bur. ethnic res, Arizona, 56, instr. anthrop, 58-59; sociol, Princeton, 59-60, anthrop, 60-61, lectr, 61-62, asst. prof, 62-65, RES. ASSOC. int. studies, 65-66; ANTHROP, WASHINGTON (SEATTLE), 66- Dep. dir, off. surv. res. & statist. studies, Princeton, 64-65. Fel. AAAS; fel. Anthrop. Asn; Soc. Appl. Anthrop; Sociol. Asn; fel. Asn. Phys. Anthrop; Pop. Asn. Cultural anthropology; culture change; southeast Asia; minority relations; demography. Publ: The Lua of northern Thailand, Center Int. Studies, Princeton, 65; Southeast Asian tribes, minorities and nations, Princeton Univ. Press, 67. Address: Dept. of Anthropology, University of Washington, Seattle, Wash. 98105.

KUNTZ, DR. ALLEN H(ERBERT), b. Tonawanda, N.Y, June 10, 26; m. 51; c. 5. PSYCHOLOGY. A.B, Hamilton Col, 49; M.A, Syracuse, 54, Ph.D. (counseling, measurement), 58. Teacher, high sch, N.Y, 49-52; asst. instr. measurement, Syracuse, 53-55; psychologist, Lancaster Cent. Schs, 55-61; DIR. student testing center, STATE UNIV. N.Y. BUFFALO, 61-63, INSTRUCTIONAL SERVS, 63- U.S.N, 43-46. Psychol. Asn; Ed. Res. Asn; Personnel & Guid. Asn; Coun. Measurement Ed. Measurement of intelligence; sociometrics; prediction of academic success; test development. Address: 72 Lombardy St, Lancaster, N.Y. 14086.

KUNTZ, PROF. JAMES E(DWARD), b. Plains, Kans, June 5, 10; m. 40; c. 3. PSYCHOLOGY. M.S, Ft. Hays Kans. State Col, 38; fel. & Ph.D.(indust. psychol), Purdue, 50. Prin, Preston Jr. High Sch, Kans, 39-41; Hanston High Sch, 41-42, 46-47; asst. prof. PSYCHOL, Tulsa, 49-51; assoc. prof, TEX. TECH. COL, 51-59, PROF, 59-, DIR. UNIV. COUNSELING CENTER, 57- Summer consult, training div, Convair, Gen. Dynamics, 56-57. U.S.A, 42-45. Psychol. Asn; Personnel & Guid. Asn. Perception; industrial training; motor skills. Publ: Legibility of numerals, the optimal ratio of height to width of stroke, Am. J. Psychol; co-auth, Use and appraisal of occupational information by high school counselors, 59 & The survey of study habits and attitudes in a college counseling center, 59, Personnel & Guid. J. Address: Texas Technological College, Lubbock, Tex. 79409.

KUNZ, DR. PHILLIP R, b. Bern, Idaho, July 19, 36; m. 59; c. 3. SOCIOLOGY. B.S, Brigham Young, 61, M.S, 62; univ. fel, Michigan, 63-65, Nat. Inst. Ment. Health fel. & Ph.D.(sociol), 67. Prin, Lyman Latter-Day Saints Sem, 62-63; instr. SOCIOL, Eastern Michigan, 64-65; lectr, Michigan, 65-67; ASST. PROF, Wyoming, 67-68; BRIGHAM YOUNG, 68- U.S.A, 54-56. Sociol. Asn; Soc. Sci. Study Relig; Nat. Coun. Family Rels. Complex organizations; socialization; family and demographic studies. Publ: Sponsorship as an organizational device: the case of the Boy Scouts of America, Univ. Microfilms, 67; Mormon and non-Mormon divorce patterns, 5/64 & The relation of income and fertility, 11/65, J. Marriage & Family. Address: Dept. of Sociology, Brigham Young University, Provo, Utah 84601.

KUPER, PROF. HILDA, b. South. Rhodesia, 1911; m; c. 2. SOCIAL ANTHROPOLOGY. B.A, Witwatersrand, 30, M.A, 34; Int. African Inst. fel, London Sch. Econ, 34-39, Ph.D.(soc. anthrop), 42. Sr. lectr. SOC. ANTHROP, Witwatersrand, 40-45; vis. lectr, North Carolina, 48-49; extramural lectr, Birmingham, 51; sr. res. bursar, family res. unit, Coun. Sci. & Indust. Res, S.Africa, 53-57; Simon sr. res. fel, Manchester, 58-59; sr. lectr, Natal, 59-62; PROF. ANTHROP, CALIFORNIA, LOS ANGELES, 62- S.African Nat. Coun. Soc. Res. sr. res. fel, 59-62; Nat. Sci. Found. res. grant, 65-68. Brit. Asn. Social Anthrop. Publ: An African aristocracy, Oxford Univ, 47; The uniform of color, Witwatersrand, 47; The Swazi, Holt, 63. Address: Dept. of Anthropology, University of California, Los Angeles, Calif. 90024.

KUPER, PROF. LEO, b. Johannesburg, S. Africa, Nov. 24, 08; m. 33; c. 2. SOCIOLOGY. B.A, Witwatersrand, 27, LL.B, 30; M.A, North Carolina, 48; Ph.D.(sociol), Birmingham, 52. Lectr. sociol, Birmingham, 49-52; prof. sociol. & dean faculty soc. sci, Natal, 52-61; PROF. SOCIOL, CALIFORNIA, LOS ANGELES, 61- Herskovits Award, 66. Mil. Intel, Brit. Army, 40-45, Lt. Fel. Am. Sociol. Asn; fel. African Studies Asn; Brit. Sociol. Asn. African studies; race relations and political sociology; violent and non-violent change; analysis of plural societies. Publ: Co-auth, Living in towns, Cresset, 54; auth, Passive resistance in South Africa, 57 & An African bourgeoisie, 65, Yale. Address: Dept. of Sociology, University of California, Los Angeles, Calif. 90024.

KUPFER, DR. GEORGE, b. New York, N.Y, June 4, 34; m. 59; c. 3. SOCIOLOGY, DEMOGRAPHY. B.A, Seattle Pac. Col, 59; M.A, Washington (Seattle), 62, Ph.D.(sociol), 66. Instr. sociol. & dormitory head res, Seattle Pac. Col, 60-63; lectr. SOCIOL, Washington (Seattle), 63-64; asst. prof, Alberta, 64-67; ASSOC. PROF, Arizona State, 67-68; ALBERTA, 68- Fed. & prov. res. grant & Alta. Alcoholism Found. res. grants, 66-67. Sociol. Asn; Pop. Asn; Soc. Study Social Probs. Social problems, particularly population, poverty, delinquency and urban renewal and outline of the problem, specifying dynamics with a view to cleaner policy and action. Publ: Co-auth, Studies in enrollment trends and patterns, Univ. Washington, 66; auth, Community opportunity assessment—Edmonton, Human Resources Res. Coun, Govt. Alta, 3/66. Address: Dept. of Sociology, University of Alberta, Edmonton, Alta, Can.

KUPFERER, PROF. HARRIET JANE, b. Clifton, N.J, Apr. 19, 22. ANTHROPOLOGY. B.S, North Carolina, 43, Ph.D.(anthrop), 61; Ed.D, N.Y. Univ, 52. Lectr. ANTHROP, NORTH CAROLINA, GREENSBORO, 61-62, asst. prof, 62-64, assoc. prof, 64-67, PROF, 67- AAAS; fel. Anthrop. Asn; Ethnol. Soc. American Indians; culture change; peasant society. Publ: The isolated eastern Cherokee, Mid Continent Am. Studies J, fall 65; The principal people, 1960: a study of cultural and social groups of the eastern Cherokee, Smithsonian Inst, 66; Impotency & power: a cross cultural comparison of the effect of alien rule, In: Political anthropology, Aldine, 67. Address: Dept. of Anthropology, University of North Carolina at Greensboro, Greensboro, N.C. 27412.

KUPFERMAN, DR. SAUL C(HARLES), b. Boston, Mass, Oct. 25, 23; m. 45; c. 2. COUNSELING PSYCHOLOGY. B.A, California, Los Angeles, 48, M.A, 50, Ph.D, 56. Trainee counseling psychol, Vet. Admin. Hosp, Los Angeles, 53-55; psychologist, Dwight Palmer & Assocs, 56; dir. res. proj. & sr. psychologist, United Cerebral Palsy Asn, 57-59; counseling serv, Jewish Voc. Serv, Los Angeles, 59-67; ASST. PROF. COUNSELING, CALIF. STATE COL. LOS ANGELES, 66- Part-time asst. prof, Calif. State Col. Los Angeles, 62-66. Consult. psychologist, Jewish Agency for Israel, 61-67; personnel psychologist, IMA Mgt. Consult, 63-64; counseling psychologist, Woodview Hosp, Van Nuys, 64-; consult, Los Angeles County Dept. Ment. Health, 64-67; Portals House, Inc, 67- U.S.A, 44-46. Psychol. Asn; Personnel & Guid. Asn. Vocational rehabilitation of emotionally disturbed; evaluation and prediction of job performance. Publ: Co-auth, A casework & rehabilitation workshop program with emotionally disturbed adolescents, Personnel & Guid. J, 5/64. Address: 229 S. Hamilton Dr, Beverly Hills, Calif. 90211.

KURATANI, DR. YOSHIRO, b. Osaka, Japan, May 8, 19; m. 42; c. 1. ECONOMICS. B.A, Osaka Univ. Commerce, 42; U.S. Govt. grant, Wisconsin, 51-52, M.S, 52; fel, California, Los Angeles, 53-54, Ph.D, 61. Res. economist, California, Los Angeles, 56-61; res. assoc, Case Western Reserve, 61-65; Fulbright vis. prof. OPERS. RES, Hitotsubashi Univ, Japan, 65-66; ASSOC. PROF, CASE WESTERN RESERVE, 66- Opers. Res. Soc; Economet. Soc; Inst. Mgt. Sci. Production scheduling simulation; economic studies of industrial process control; econometric methods; direction free least squares; operation research in financial management. Publ: Co-auth, Production scheduling research: a Monte Carlo approach, Proc. Seminar Tech. Opers. Res, Ill. Inst. Tech. & Precomputational report on job shop simulation research, J. Opers. Res. Soc. Japan. Address: School of Management, Case Western Reserve University, University Circle, Cleveland, Ohio 44106.

KURIEN, DR. JOHN C, b. Kottayam, India, Dec. 8, 40; m. 67. ECONOMICS, STATISTICS. B.A, Kerala, 60; dipl, Delhi, 61; Ford fel, Vanderbilt, 64, Ph.D.(econ), 67. Lectr. ECON, McGILL, 65-66, ASST. PROF, 66- Mem. consult. cmt. economet, Can. Dept. Finance, 67- Theory of economic development; profit theory; econometrics. Address: Dept. of Economics & Political Science, McGill University, Montreal, Que, Can.

KURIHARA, PROF. K(ENNETH), b. Japan, Jan. 8, 10. ECONOMICS. A.B, Ohio Wesleyan, 35; A.M, Oberlin Col, 36; Ph.D, Iowa, 42. Res. economist, U.S. Govt, 44-45; instr. econ, Princeton, 46-47; lectr, Rutgers, 47-50, asst. prof, 50-56, assoc. prof, 56-60, prof, 60-68; DISTINGUISHED PROF. ECON. THEORY, STATE UNIV. N.Y. BINGHAMTON, 68- Lectr, grad. div, Brooklyn Col, 49-50; vis. res. prof, inst. statist, Oxford, 61; Fulbright vis. prof, Tokyo Metrop. Univ, 65. Christian R. & Mary Lindbark Found. award, Rutgers, 63. Am. Econ. Asn; fel. Royal Econ. Soc. Modern economic theory; monetary theory and public policy. Publ: National income and economic growth; Applied dynamic economics, 63 & Macroeconomics and programming, 64, George Allen & Unwin. Address: Dept. of Economics, State University of New York, Binghamton, N.Y. 13901.

KURKE, DR. LEWIS, b. New York, N.Y, Sept. 29, 29; m. 53; c. 4. PSYCHIATRY. A.B, Columbia, 49, M.D, 53. Res. psychiatrist, Manhattan State Hosp, Ward's Island, N.Y, 54-55; res. psychiat, Walter Reed Army Hosp, Wash, D.C, 56-57; chief psychiat, U.S. Army Hosp, Nurnberg, Germany, 58-61; 58th Evacuation Hosp, Beirut, Lebanon, 58; proj. dir. AWOL study, Walter Reed Army Inst. Res, D.C, 62-64; dep. consult, Off. Army Surgeon Gen, 64-65; chief behav. sci. res. br, Army Res. & Develop. Command, 65; ZONE DIR, ILL. DEPT. MENT. HEALTH, 65- U.S. Army rep. human ecol. study sect, Nat. Insts. Health, 62-65. Med.C, U.S.A, 55-65, Res, 65-, Maj. Am. Med. Asn; Psychiat. Asn. Ecology and management of deviance; mentally ill; use of behavior modification techniques in management and training; use of administration in social change. Publ: Co-auth: Modes of communication used by military patients diagnosed as schizophrenic, alcoholic and by military offenders, In: Disorders of communications, Williams & Wilkins, 64. Address: 502 W. Main St, Urbana, Ill. 61801.

KURKE, DR. MARTIN I(RA), Psychol, see 11th ed, Phys. & Biol. Vols.

KURKJIAN, DR. BADRIG M(ALCOLM), Math. Statist, Appl. Math, see 11th ed, Phys. & Biol. Vols.

KURLAND, DR. SHABSE H(OWARD), b. Baltimore, Md, Aug. 21, 24. CLINICAL PSYCHOLOGY. A.B, Hopkins, 47; M.A, Columbia, 49, Ph.D.(clin. psychol), 52. Trainee, Vet. Admin, 51-53, clin. psychologist, Vet. Admin. Hosp, Wilmington, Del, 53, res. coordinator, Vet. Admin, Baltimore, Md, 53-60, asst. chief psychol. serv, regional off, 60-65; dep. chief psychol. serv, U.S. Dept. Defense, Ft. Meade, Md, 65-67; ASSOC. PROF. MENT. HEALTH TECH, CATONSVILLE COMMUNITY COL, 67- Private practice, 55-; consult, State Dept. Ment. Hyg, Md, 67- U.S.A, 43-46. Psychol. Asn. Psychotherapy. Publ: Lack of generality in defense mechanisms as indicated in auditory perception, J. Abnorm. & Soc. Psychol. Address: 2244 Crest Rd, Baltimore, Md. 21209.

KURNOW, PROF. ERNEST, b. New York, N.Y, Oct. 21, 12; m. 38; c. 3. STATISTICS, ECONOMICS. B.S, City Col. New York, 32, M.S, 33; Ph.D, N.Y. Univ, 51. Teacher, New York Bd. Ed, 33-40, statistician, 41-48; mathematician, ord. div, U.S. War Dept, 40-41; instr. ECON, N.Y. UNIV, 48-51, asst. prof, 51-55, assoc. prof, 55-59, PROF, 59-, CHMN. QUANT. ANAL. AREA, SCHS. BUS, 63- Lectr, Ankara, 54-56; Fulbright grant, Greece, 66-67. Consult, New York Mayor's Cmt. Admin. Surv, 50-51; State Fiscal Affairs Cmn, 53-54; Temporary Cmn, Revision State Constitution, 57-58; State Tax Struct. Study Cmt, 59-; Turkish Ministry Finance, 54-56; Tri-State Transportation Cmn, 64-66. Inst. Mgt. Sci; Statist. Asn; Econ. Asn; Soc. Qual. Control. Public budgeting; tax policy and administration; revenue estimation; business forecasting; productivity in government; index numbers and teaching of statistics. Publ: Turkish budgetary process; Statistics for business decision; Theory and measurement of rent. Address: Quantitative Analysis Area, New York University, 100 Trinity Place, New York, N.Y. 10006.

KURODA, DR. YASUMASA, b. Tokyo, Japan, Apr. 28, 31; m. 61. POLITICAL SCIENCE. B.A, Oregon, 56, M.A, 59, fel, 59-60, Ph.D, 62; Asia Found. traveling grants, 59. Asst, Oregon, 56-59; instr. POLIT. SCI, Mont. State Col, 60-64; asst. prof, Southern California, 64-66; ASSOC. PROF, HAWAII, 66- Res. assoc, Soc. Sci. Found. res. grant, Denver, 63-64; vis. asst. prof, California, Los Angeles, 65-66; Soc. Sci. Res. Coun-Am. Coun. Learned Socs. res. grant, 66-67; assoc. prog. officer, Res. Pub. & Trans, East-West Center, Inst. Adv. Projs, 67-; summer, Soc. Sci. Res. Coun. grant, inst. math. models in soc. sci. res, Princeton, 62. AAAS; Polit. Sci. Asn; Sociol. Asn; Japanese Social. Soc. Cross cultural study of the political socialization of future political leaders; political psychology: sociology and anthropology; comparative community study; power structure; political change and culture; peace research; refugees in divided countries. Publ: Agencies of political socialization and political change, Human Orgn, winter 65-66; Political role attributions and dynamics in a Japanese community, Pub. Opinion Quart, winter 65-66; Peace-war orientation in a Japanese community, J. Peace Res, 12/66. Address: Dept. of Political Science, University of Hawaii, Honolulu, Hawaii 96822.

KURTZ, DR. ALBERT K(ENNETH), b. Boise, Idaho, Apr. 21, 04; m. 62. PSYCHOLOGY, STATISTICS. A.B, Stanford, 26; Chicago, 28; Ph.D.(psychol), Ohio State, 30. Asst. psychol, Stanford, 25-27; instr, Ohio State, 27-30; asst. personnel res, U.S. Civil Serv. Cmn, 30-33; statistician, Procter & Gamble, 33-36; res. assoc, Life Ins. Agency Mgt. Assoc, 36-42, 44-46; lectr. psychol, Yale, 42; proj. dir, Psychol. Corp, 42-44, 58-59; assoc. prof. psychol, Mich. State, 46-47; prof, Pa. State, 47-53; Florida, 53-64; RES. PSYCHOLOGIST, NAVAL TRAINING DEVICE CENTER, 66- Fulbright lectr, psychol. & sociol, Ain Shams, Cairo, 63-64. Expert consult, Secy. War, 45-47. Ed, Psychometrika, 36-50. Fel. AAAS; fel. Psychol. Asn; Psychonomic Soc; Psychomet. Soc.(treas, 36-40, secy, 46-49); Ed. Res. Asn. Validation of psychological tests; statistical terminology and symbols; nomographs and slide rules. Publ: Co-auth, Handbook of statistical nomographs, tables and formulas & Statistical dictionary; Speed of response test. Address: 921 S.W. Eighth Ave, Gainesville, Fla. 32601.

KURTZ, FREDA WITHEROW, b. Kirksville, Mo, Nov. 23, 19; m. 48; c. 2. ECONOMICS. B.S, Northeast Mo. State Teachers Col, 42; Haggin fel, Kentucky, 45-46, M.A, 46; Michigan, summer, 65. Mgt. analyst, Hq. Air Force Logistics Command, 48-61, Hq. Air Force Systs. Command, 61, OPERS. RES. ANALYST, AERONAUT. SYSTS. DIV, U.S. AIR FORCE, 61- Oper. Res. Soc; Statist. Asn; Soc. Pub. Admin. Cost estimation and analysis of status and progress of technical programs; development of techniques for managerial control. Publ: General purpose light weight V/STOL aircraft cost analysis, 65, Cost estimates for mobile aerospace defense system/light attack defense system, 66 & Missile cost model, 66, U.S. Air Force. Address: Aeronautical Systems Division, ASBEC, Wright-Patterson Air Force Base, Ohio 45433.

KURTZ, PROF. JOHN J(OSEPH), b. Milwaukee, Wis, Oct. 19, 07; m. 37; c. 3. PSYCHOLOGY. B.A, Wisconsin, 35; M.A, Northwestern, 40; Ph.D, Chicago, 47. Teacher, high schs, 36-46; asst. human develop, Chicago, 46-47; instr. ed, Maryland, 47-48; asst. prof. ed. psychol, Texas, 48-49; PROF. ED, INST. CHILD STUDY, MARYLAND, 49- Fulbright lectr, Philippines, 59-60. U.S.A.A.F, 43-45. Psychol. Asn; Soc. Res. Child Develop. Human development; physiological, sociological and psychological aspects learning and achievement in school. Publ: Overachievement and underachievement in school, Sch. Rev; Enabling children to achieve, Ed. Leadership; Children need to be understood, Nat. Ed. Asn. J. Address: 419 St. Lawrence Dr, Silver Spring, Md. 20901.

KURTZ, PROF. JOSEPHINE C(LOUSING), b. Chicago, Ill, Aug. 23, 04; div. PSYCHOLOGY. B.A, Minnesota, 26, M.A, 27; Ph.D.(psychol), Ohio State, 30. Dir. Adult Guid. Bur, Conn, 37-40; lectr, Hartford Seminary Found, 40-42, 44-47; ASST. PROF. PSYCHOL, CONNECTICUT, 47- Psychologist, New Brit. Child Guid. Clin, 44-67. Fel. Psychol. Asn. Publ: Co-auth, Attempt to influence the Rorschach test by means of a peripheral set, J. Consult. Psychol. & Child guidance clinic studies its diagnoses of adolescent problems, Cath. Charities Rev. Address: 26 Lake Shore Dr, Farmington, Conn. 06032.

KURTZ, PROF. KENNETH H(ASSETT), b. Buffalo, N.Y, Nov. 7, 28. PSYCHOLOGY. B.A, Buffalo, 49; M.S, Yale, 51, Ph.D.(exp. psychol), 53. Res. psychologist, Stanley Aviation Corp, 53-55; res. psychologist, gen. med. res. lab, Buffalo Vet. Admin. Hosp, N.Y, 57; from asst. prof. to assoc. prof. PSYCHOL, STATE UNIV. N.Y. BUFFALO, 57-66, PROF, 66- U.S.A, 55-57. Psychol. Asn; Psychonomic Soc. Animal learning and motivation; human learning and information processing. Publ: Foundations of psychological research, Allyn & Bacon, 65; co-auth, The effects of prior fear experiences on an approach-avoidance conflict, 62 & Conditioned fear and magnitude of startle response: a replication and extension, 66, J. Comp. Physiol. Psychol. Address: Dept. of Psychology, State University of New York at Buffalo, Buffalo, N.Y. 14214.

KURTZ, DR. PAUL S, b. Elverson, Pa, Apr. 29, 30; m. 51; c. 4. PSYCHOLOGY. B.A, Albright Col, 59; M.A, Madison Col, 63; Nat. Defense Ed. Act fel, West Virginia, 63-66, M.A, 65, Ph.D.(psychol), 66. Instr. PSYCHOL, East. Mennonite Col, 59-63; ASST. PROF, CENTRAL MICHIGAN, 66- AAAS; Psychol. Asn. Learning and motivation; avoidance conditioning; infant stimulation; mental retardation; ingestion in hydra. Publ: Co-auth, Response, contingent shock and avoidance conditioning, 66, Adaptation to the conditioning chamber in avoidance learning, 66 & The interaction of UCS intensity and ITI in avoidance learning, 67, Psychonomic Sci. Address: Dept. of Psychology, Central Michigan University, Mt. Pleasant, Mich. 48858.

KURTZ, DR. RICHARD A(LLEN), b. New York, N.Y, July 24, 27; m. 55; c. 2. SOCIOLOGY, ANTHROPOLOGY. B.S, Cent. Conn. State Col, 51; M.A, Connecticut, 53; Ph.D, Mich. State, 59. Instr. sociol, San Diego State Col, 56-58, asst. prof, 58-59; res. assoc, Nebraska, 59-62, asst. prof. med. sociol, Nebr. Psychiat. Inst, col. med, univ, 62-65, ASSOC. PROF, 65-66; SOCIOL. & ANTHROP, NOTRE DAME, 66- Proj. dir. hosps, State Dept. Health, Nebr, 59. U.S.A, 46-47. AAAS; Sociol. Asn; Asn. Ment. Deficiency. Rural urban interrelationships; the hospital as a social system; medical sociology; sociology of mental retardation. Publ: Fringe and suburb: a confusion of concepts, Soc. Forces; The public use of sociological concepts, Am. Sociologist, 66; co-auth, Differential statuses and shared task performance, J. Health & Human Behavior, 66. Address: Dept. of Sociology & Anthropology, University of Notre Dame, Notre Dame, Ind. 46556.

KURTZ, DR. RONALD J(OSEPH), b. Holly, Mich, Nov. 5, 26; m. 50; c. 2. ANTHROPOLOGY. B.A, Carleton Col, 48; M.A, New Mexico, 56, Wenner-Gren Found. Anthrop. Res. fel, 56-57, Ph.D.(anthrop), 63. Instr. ANTHROP, Chico State Col, 58-61; instr, GRINNELL COL, 61-63, asst. prof, 63-67, ASSOC. PROF, 67- Assoc. Cols. Midwest & Fulbright-Hays vis. prof, Cuttington Col, Liberia, 67-68. Area studies coordinator, Peace Corps Jr. Year Prog-Latin Am, P.R, summer, 64. U.S.N, 45-46. AAAS; Anthrop. Asn; Ethnol. Soc; Soc. Am. Archaeol. Role change and cultural change among the Canyoncito Navaho of New Mexico; the formal analysis of political and economic role change among the Kpelle of central Liberia. Publ: Co-auth, Midwestern rural poverty, human rights, and the need for legal services, Kans. Law Rev, 67; auth, Headmen and war chanters: role theory and the early Canyoncito Navaho, Ethnohistory, 68. Address: Dept. of Anthropology, Grinnell College, Grinnell, Iowa 50112.

KURTZMAN, DR. DAVID H(AROLD), b. Russia, Jan. 11, 04; nat; m. 27; c. 2. POLITICAL SCIENCE. B.S, Temple, 30, LL.D, 67; A.M, Pennsylvania, 31, Ph.D, 35; LL.D, Pittsburgh, 67. Instr. polit. sci, Temple, 30-33; dir. res, Del. County Chamber Commerce, 33; dir. res. & asst. dir, Pa. Economy League, Inc, 33-59; secy. admin, Commonwealth of Pa, 59-63; sr. res. & ed. assoc, Fels Inst. Local & State Govt, Univ. Pennsylvania, 63-65, v.chancellor finance, PITTSBURGH, 65-67, acting chancellor, 66-67, chancellor, 67, EMER. CHANCELLOR, 67-; SUPT. PUB. INSTR, COMMONWEALTH PA, 67- Vis. lectr, grad. sch. pub. & int. affairs, Pittsburgh, 58-59. Mem. & secy, Metrop. Study Cmn, Pittsburgh, Pa, 51-55; chmn, Mayor's Mgt. Adv. Cmt, 51-59; chief staff, Gov. Tax Adv. Cmn, Pa, 56-58; chmn, Gov. Tax Study & Revision Cmn, 66; res. dir, Pa. Constitutional Convention Preparatory Cmt, 67. Acad. Polit. & Soc. Sci; Technion Soc; Polit. Sci. Asn; Soc. Pub. Admin; Govt. Res. Asn; Tax Inst. Public administration; taxation; political parties. Publ: Method of controlling votes in Philadelphia; Local income tax administration in Pennsylvania; Influence of organization of local government officials, The Ann. Address: 317 Education Bldg, Box 911, Harrisburg, Pa. 17126.

KURYLO, DR. WALTER, b. Chicago, Ill, Oct. 17, 14; m. 46; c. 2. PUBLIC ADMINISTRATION, ECONOMICS. LL.B, American Univ, 38, B.S, 49, M.A, 54, Ph.D, 60. Transportation policy planning officer, off. fed. hwy. adminstr, BUR. PUB. RD, DEPT. TRANSPORTATION, WASH, D.C, 35-62, spec. asst. to dir. off. opers, 62-66, TRANSPORTATION PROG. PLANNING OFFICER, OFF. PLANNING, 66- Guest lectr, American Univ, 54-55, lectr, 57- Prof. staff mem, cmt. commerce, U.S. Senate, 59-60; chief studies & appln. staff, Off. Right-of-Way, 64-65. Secy. gen. & distinguished serv. award, Ninth Pan Am. Hwy. Cong, 63; chmn. citizen's cmt. sch. bonds, Fairfax County, 65, mem. sch. bd, 67- U.S. Dept. Commerce award, 56. U.S.A.A.F, 43-46. Polit. Sci. Asn; Nat. Ed. Asn. Law; national transportation policy planning; treatment of problems of transportation economics and public interest arising in administration of related federal programs. Publ: Organization of government for transportation; Enforcement of economic and safety regulations & Limitation of motor vehicle size and weight, Senate Report, 87th Cong. Address: 10512 Dillard Court, Fairfax, Va. 22030.

KURZ, DR. RONALD BURTON, b. New York, N.Y, Feb. 22, 34; m. 61. PSYCHOLOGY. A.B, N.Y. Univ, 55; U.S. Pub. Health Serv. fel, Indiana, 56-58, Ph.D.(psychol), 60. Asst. PSYCHOL, Indiana, 55-56; intern, Conn. State Hosp, 58-59; lectr, SYRACUSE, 59-60, asst. prof, 60-65, ASSOC. PROF, 65- Vis. lectr, Sydney, 67. Consult. & lectr, Herkimer County Schs, N.Y, 59-; consult, Vet. Admin, 61- Psychol. Asn. Verbal learning; personality; clinical psychology. Relationship between time imagery and Rorschach human movement responses, 63 and co-auth, Rorschach correlates of time estimation, 65, J. Consult. Psychol; auth, Effects of three kinds of stressors on human learning and performance, Psychol. Reports, 64. Address: Dept. of Psychology, Syracuse University, Syracuse, N.Y. 13210.

KUSHMAR, HOWARD STEWART, b. Detroit, Mich, Oct. 13, 25; m. 51; c. 1. BUSINESS MANAGEMENT. A.B, Mich. State Col, 49; B.S, U.S. Merchant Marine Acad, 50; M.A, Wayne State, 55. Asst, J.L. Hudson Co, 49-50, asst. dir. exec. training, 50-52, res, 52-55; instr. bus, Mich. State, 55-57; ASST. DIR. RES, J.L. HUDSON CO, 57- U.S.N.R, 46-48, Lt.(jg). Statist. Asn; Mkt. Asn; Inst. Mgt. Sci. Business organization; employee morale and attitude; personnel selection; management research. Address: J. L. Hudson Co, 1206 Woodward Ave, Detroit, Mich. 48226.

KUSHNER, DR. MALCOLM, b. Philadelphia, Pa, Nov. 14, 26; m. 54; c. 2. PSYCHOLOGY. B.A, Temple, 50, M.A, 51, Ph.D.(psychol), 55. Trainee, Vet. Admin. Hosp, Coatesville, Pa. & Ment. Hyg. Clin, Phila, 54-56; supvry. psychologist, East. Pa. Psychiat. Inst, Phila, 56-57; clin. psychologist, Vet. Admin. Ment. Hyg. Clin, Miami, Fla, 57-58; coordinator psychol. training, Vet. Admin. Hosp, Coral Gables, Fla, 58-62, chief psychol. serv, 63-67; SUPVRY. RES. PSYCHOLOGIST, VET. ADMIN. HOSP, MIAMI, FLA, 67- Adj. assoc. prof, Miami (Fla), 65-; adj. prof, Fla. State, 67- Dipl. clin. psychol, Am. Bd. Exam. Prfnl. Psychol, 64. U.S.A, 44-46, 2nd Lt. AAAS. Experimental analysis and modification of clinical behavior, particularly aversive techniques. Publ: The reduction of a long standing fetish by means of aversive conditioning, In: Case studies in behavior modification, Holt, 65; co-auth, Aversion therapy and the concept of punishment, Behav. Res. & Ther, 66; auth, Faradic aversive controls in clinical practice, In: Behavior modification in clinical psychology, Appleton, 68. Address: 955 N.E. 125th St, North Miami, Fla. 33161.

KUSHNER, DR. ROSE ESTRIN, b. Buffalo, N.Y, July 31, 07; m. 37. PSYCHOLOGY. B.S, Buffalo State Teachers Col, 33; M.A, Columbia, 41, Ph.D. (ed. res, psychol), 46. Teacher, pub. schs, Buffalo, N.Y, 28-37; lectr. PSYCHOL, Brooklyn Col, 44-45; instr, CITY COL. NEW YORK, 47-49, asst. prof, 49-57, VIS. PROF, 59- Res. assoc, inst. psychol. res, teachers col, Columbia, 58-61. Summers, vis. prof, Florida, 49-51. Fel. Psychol. Asn; fel. Geront. Soc. Age changes in intellectual functioning; gerontology. Publ: Co-auth, Supplementary guide to the revised Stanford-Binet; auth, Relationship between content of an adult intelligence test and intelligence test score as a function of age; co-ed, Graduate education in aging within the social sciences, Div. Geront, Univ. Michigan, 67. Address: 50 Sutton Place South, New York, N.Y. 10022.

KUSHNICK, DR. STEPHEN A, b. New York, N.Y, Dec. 19, 36; m. 62; c. 1. PSYCHOLOGY. B.S, Pittsburgh, 58, M.S, 61, Ph.D.(psychol), 63. ASST. PROF. PSYCHOL, Allegheny Col, 63-65; WINDSOR, 65- Res. asst, inst. res, Montefiore Hosp, 57-60; Nat. Sci. Found. coop. grad. fel, 59-60; res. asst, Pittsburgh, 60-63; staff psychologist, Crawford County Ment. Health Center, Meadville, Pa, 63-65. Psychol. consult, Windsor Jewish Community Coun, 65- Psychol. Asn. Learning and motivation in animals and humans. Address: Dept. of Psychology, University of Windsor, Windsor, Ont, Can.

KUSYSZYN, DR. IGOR, b. Ukraine, Apr. 17, 39; Can. citizen. PSYCHOLOGY. B.A, McMaster, 63; M.A, Western Ontario, 64, Ph.D.(psychol), 67. ASST. PROF. PSYCHOL, YORK, 67- AAAS; Am. Psychol. Asn; Can. Psychol. Asn. Objective personality assessment; response styles. Publ: Co-auth, Transition probability, word order, and noun abstractness in the learning of adjective-noun paired associates, J. Exp. Psychol, 66; auth, A comparison of judgmental methods with endorsements in the assessment of personality traits, J. Appl. Psychol, 68; co-auth, A multimethod factor analytic appraisal of endorsement and judgment methods in personality assessment, J. Ed. & Psychol. Measurement, (in press). Address: Dept. of Psychology, York University, Toronto 12, Ont, Can.

KUTASH, DR. SAMUEL B(ENJAMIN), b. Brooklyn, N.Y, May 12, 12; m. 36; c. 2. CLINICAL PSYCHOLOGY. B.S, City Col. New York, 32, M.S, 36; Columbia, 36-37; Ph.D.(clin. psychol), N.Y. Univ, 44. Psychologist, Woodbourne Inst, N.Y, 42-44; instr. psychol, N.Y. Univ, 44-46; Brooklyn Col, 46-52; chief psychol. serv, Vet. Admin. Hosp, E.Orange, N.J, 52-60; private practice, 61- Clin. psychologist, Child Guid. Clin, N.Y, 42-44; Harlem Valley St. Hosp, 44-46; chief clin. psychologist, Vet. Admin. Ment. Hyg. Clin, N.J, 46-52; lectr, Rutgers & N.J. Psychiat. Asn, 48; adj. prof, sch. ed, Rutgers, 54-56. Consult, Vet. Admin. Med. Off, N.J. & Mass, 61-; Vet. Admin. Hosp, East Orange, N.J, 61-; N.J. Orthop. Hosp; N.J. Dept. Insts. & Agencies; expert consult, Peace Corps, Wash, D.C, 62- Co-ed, Encyclop. Criminol. Dipl, Am. Bd. Exam. Prfnl. Psychol. Fel. Psychol. Asn; Soc. Proj. Tech.(pres, 53); Group Psychother. Asn; Med. Correctional Asn; Asn. Group Psychoanal. & Process. Development of projective techniques; evaluation of psychotherapeutic methods; test construction and validation. Publ: Co-auth, Perceptual changes in psychopathology, Rutgers Univ, 61; auth, Impact of projective techniques on basic psychological science, J. Proj. Tech; Psychoneurosis, In: Handbook of clinical psychology, McGraw, 67. Address: 3 Park Rd, Maplewood, N.J. 07040.

KUTHY, DR. OLGA, b. New York, N.Y, May 23, 01. GEOGRAPHY. A.B, Hunter Col, 24; A.M, Columbia, 26; Clark, 26; Ph.D, N.Y. Univ, 39. Instr. GEOL. & GEOG, HUNTER COL, 25-40, asst. prof, 41-49, ASSOC. PROF, 49- AAAS; Asn. Am. Geog; Geog. Soc; Coun. Geog. Ed. Economic geography; regional geography of South America and of Europe; conservation of natural resources. Address: Dept. of Geology & Geography, Hunter College, 695 Park Ave, New York, N.Y. 10021.

KUTISH, FRANCIS AUGUST, b. New Hampton, Iowa, Apr. 23, 15; m. 40; c. 4. AGRICULTURAL ECONOMICS, PUBLIC ADMINISTRATION. B.S, Iowa State, 38, M.S, 41; American Univ, 38-39. From assoc. to instr. agr. econ, Iowa State, 41-44, asst. prof, 44-47, assoc. prof, 47-55, prof, 55-63; Agr. mkt. specialist, U.S. DEPT. AGR, El Salvador, 63-65, STAFF ECONOMIST, OFF. SECY, WASH, D.C, 65-, spec. assignments, Turkey & Greece, 66-67. Consult, Ministry Agr, Chile, 38, Colombia, 62. Agr. Econ. Asn. Price and production predictions; marketing; agricultural policy. Publ: Co-auth, Prospects for Turkish agriculture, Agency Int. Develop, U.S. Dept. State, 66, A study of the economics of land use and livestock production in Greece, U.S. Dept. Agr, 67 and Production, price and income estimates for feed livestock economy. Address: U.S. Dept. of Agriculture, Washington, D.C. 20250.

KUTISH, DR. L. JOHN, Agr. Econ, see 10th ed, Soc. & Behav. Vols.

KUTLER, DR. STANLEY I, Am. Hist, see 5th ed, Dir. Am. Scholars, Vol. I, Hist.

KUTNER, PROF. BERNARD, b. New York, N.Y, May 17, 23; m. 44; c. 2. PSYCHOLOGY. B.S.S, City Col. New York, 44; M.A, New Sch. Soc. Res, 48; Ph.D.(soc. psychol), Harvard, 51. Res. assoc, Cmn. Community Inter-rel, 51-52; dir. studies geront, med. col, Cornell, 52-55, res. assoc. pub. health & prev. med, 53-55; from asst. prof. to ASSOC. PROF. PREV. MED. & COMMUNITY HEALTH, ALBERT EINSTEIN COL. MED, 55-, REHAB. MED, 59- U.S.A.A.F, 44-46. AAAS; Psychol. Asn; Sociol. Asn; fel. Pub. Health Asn; fel. Geront. Soc. Social psychology of illness; problems of rehabilitation; problems of aging. Publ: Co-auth, Five hundred over sixty: a community survey of aging, Russell Sage Found, 56, Prejudice and ethic relations, handbook of social psychol, Addison-Wesley, 67 & Utilization of research centers for training purposes, training in aging and the social sciences, Univ. Michigan Press, 67. Address: Albert Einstein College of Medicine, 1300 Morris Park Ave, Bronx, N.Y. 10461.

KUTNER, DR. NANCY G(ATES), b. Washington, D.C, Jan. 15, 39; m. 66; c. 1. SOCIOLOGY. A.B, Oberlin Col, 60; M.A, North Carolina, Chapel Hill, 62, Howard W. Odum award, 63, Ph.D.(sociol), 65. ASST. PROF. SOCIOL, Col. William & Mary, 64-67; TEXAS A&M, 67- Consult, In-Serv. Training Day, Hampton, Va, 65; planning cmt, Peninsula Multiple Handicap Treatment Center, 66; tourist study, Hampton, Va, 67. Sociol. Asn; Pop. Asn. Am. Voluntary Associations; adolescent-parent relationships. Address: 101 Anderson St, College Station, Tex. 77840.

KUTSCHE, PROF. PAUL, b. Grand Rapids, Mich, Jan. 3, 27; m. 59. ANTHROPOLOGY. A.B, Harvard, 49; Oslo, 51; M.A, Michigan, 55; Ph.D. (anthrop), Pennsylvania, 61. Ed. asst, United Press of Am. in Eng, 50-51; lectr. sociol, Franklin & Marshall Col, 58-59; asst. prof. sociol. & anthrop, COLO. COL, 59-64, ASSOC. PROF. ANTHROP. & CHMN. DEPT, 64- Grants, Colo. Col. faculty, 61, 62 & 66; Am. Philos. Soc, 62 & 66; Nat. Sci. Found, 66-67. Assoc, Current Anthrop. U.S.A, 45-46. Fel. Anthrop. Asn. Ethnography of American Indians and whites, especially in southeastern United States; personality and culture; acculturation; ethnohistory; Spanish-Americans of the Southwest. Publ: Cherokee economic cooperatives: the Gadugi, Bur. Am. Ethnol. Bull; Culture heros and historiography: the Tsali legend, In: Ethnohistory, 63; Southern Appalachian personality, Proc. Int. Cong. Americanists, 64. Address: Dept. of Anthropology, Colorado College, Colorado Springs, Colo. 80903.

KUTSCHER, DR. CHARLES LAWRENCE, b. Harvey, Ill, Sept. 8, 36; m. 60; c. 2. PHYSIOLOGICAL PSYCHOLOGY. B.A, Georgetown Col, 58; M.A, Illinois, 61, Ph.D.(psychol), 62. Asst. prof. PSYCHOL, SYRACUSE, 62-67, ASSOC. PROF, 67- Consult, Vet. Admin. Hosp, Syracuse, N.Y, 62- Psychol. Asn; Animal Behav. Soc. Food and water regulation in animals: species differences, internal factors, interaction of feeding and drinking. Publ: Ed, Readings in animal behavior, Blaisdell, 68; Effect of hypertonic saline injections and water deprivation on drinking, serum osmolality and gut water, Physiol. & Behav, 1: 259-268; Species differences in the interaction of feeding and drinking, Ann. N.Y. Acad. Sci, 68. Address: Dept. of Psychology, Syracuse University, Syracuse, N.Y. 13210.

KUUSISTO, DR. ALLAN A(NDREW), b. Kaleva, Mich, Sept. 14, 21. POLITICAL SCIENCE. A.B, Wittenberg, 42, hon. LL.D, 63; A.M, Harvard, 47, Ph.D, 50. Instr. govt, New Hampshire, 48-50, asst. prof, 50-54, assoc. prof, 54-59, prof, 59-63, dean grad. sch, 61-63; dir. div. higher ed, N.Y. State Ed. Dept, 63-64, asst. cmnr. higher ed, 64-68; V.PRES. ACAD. AFFAIRS, STATE UNIV. N.Y. ALBANY, 68- Fulbright res. scholar, Helsinki, 53-54; Soc. Sci. Res. Coun. grant, 58. Consult, Fels. Inst, Pennsylvania, 66-68; U.S. Off. Ed, 67- Mem, Nat. Sci. Found. Eval. Panel, 67. U.S.A.A.F, 42-46. AAAS; Polit. Sci. Asn. United States foreign policy; comparative government; Finnish government and foreign policy. Publ: How Finland's unicameral parliament works; Paasikivi line in Finland's foreign policy; Parliamentary crises and presidial governments in Finland. Address: State University of New York at Albany, 1223 Western Ave, Albany, N.Y. 12203.

KUZNETS, PROF. SIMON, b. Kharkov, Russia, Apr. 30, 01; m. 29; c. 2. ECONOMICS, STATISTICS. B.S, Columbia, 23, A.M, 24, Soc. Sci. Res. Coun. fel, 25-27, Ph.D, 26, hon. D.H.L, 54; hon. D.Sc, Princeton, 51, Pennsylvania, 56, Harvard, 59; hon. Ph.D, Hebrew Univ, Israel, 65. Mem. res. staff, Nat. Bd. Econ. Res, N.Y, 27-, asst. prof. econ. & statist, Pennsylvania, 30-35, assoc. prof, 35-36, PROF, 36-54; polit. econ, Hopkins, 54-60; ECON, HARVARD, 60- Spec. adv, bur. for. & domestic commerce, U.S. Dept. Commerce, 33-34; div. res, U.S. Treasury Dept, 35; dir, Soc. Sci. Res. Coun, 38-; assoc. dir, bur. planning & statist, War Prod. Bd, 42-44. AAAS (v.pres, 62): fel. Statist. Asn.(v.pres, 30, pres, 49); Econ. Asn.(pres, 54); fel. Economet. Soc; Philos. Soc; fel. Royal Statist. Soc; Royal Swedish Acad. Sci; Int. Statist. Inst. Business cycles; secular movements; national income and capital formation; economic growth. Address: 67 Francis Ave, Cambridge, Mass. 02138.

KWAK, DR. NO KYOON, b. Seoul, Korea, Nov. 24, 32; m. 62; c. 2. ECONOMICS, MANAGEMENT SCIENCE. B.A, California Western, 56; M.A, California, Berkeley, 58; Clune, Helms & Haynes fels. & Ph.D.(econ), Southern California, 64. ASST. PROF. econ, Eastern New Mexico, 64-65; INDUST. MGT, CLEMSON, 65- Econ. consult, Greenville Gen. Hosp. Syst, S.C, 67-68. Econ. Asn; Regional Sci. Asn. Linear programming and management science models. Publ: A survey study of employment and incomes of Clemson University...graduates, Clemson Univ, 67; Review article on business forecasting methods, Quart. Rev. Econ. & Bus, 67; Linear programming and decision making, Rev. Indust. Mgt. & Textile Sci, 68. Address: Dept. of Industrial management, Clemson University, Clemson, S.C. 29631.

KWAN, PROF. KIAN M(OON), b. Canton, China, June 15, 29; m. 61. SOCIOLOGY. B.A, Far East. Univ, P.I, 52; M.A, California, 54, John Randolph & Dora Haynes Found. fels, 57-58, Ph.D, 58. Instr. SOCIOL, Ohio, 58-61, asst. prof, 61-65; ASSOC. PROF, SAN FERNANDO VALLEY STATE COL, 65- San Fernando Valley State Col. Found. col. instnl. grant, 66-67. Sociol. Asn. Race and ethnic relations; social psychology. Publ: Co-auth, Ethnic stratification, Macmillan, 65; Minority members and their assimilation, Ohio Univ. Rev. Address: Dept. of Sociology, San Fernando Valley State College, Northridge, Calif. 91324.

KWANG, PROF. CHING-WEN, b. China, July 2, 25; m. 50; c. 1. ECONOMICS, ACCOUNTING. B.A, Yencheng, China, 48; M.A, Southern California, 52; B.S, Syracuse, 54, Ph.D.(econ), 55. Asst. prof. econ. & acct, Bridgeport, 55-56; finance & acct, Notre Dame, 56-60; assoc. prof. econ. & acct, Northeastern, 60-65; PROF. BUS. & ECON, CALIF. STATE COL. HAYWARD, 65- Ford Found. regional faculty res. summer fel, Michigan, 58 & res. grant, 59-61. Am. Acct. Asn; Econ. Asn; Economet. Soc. Application of mathematical methods to management accounting problems; government budgeting and accounting in Communist China. Publ: Co-auth, Analytical and graphical comparison of marginal analysis and mathematical programming in the theory of the firm, In: Linear programming and the theory of the firm. Address: Dept. of Business & Economics, California State College at Hayward, 25800 Hillary St, Hayward, Calif. 94542.

KWO, DR. TSUO-TSING, b. China, Apr. 26, 22; nat; m. 58; c. 2. APPLIED STATISTICS. B.S, Nat. Tsing-Hua Univ, China, 43; M.S, Cincinnati, 50; M.S, Carnegie Inst. Tech, 52; D.Sc.(eng), Columbia, 61. Res. specialist bus. res, Gen. Elec. Co, Ky, 54-58; dir. bus. statist, Metro-Goldwyn-Mayer, Inc, 58-59; instr. appl. statist, Columbia, 59-61; sr. res. specialist prod. planning, NAT. CASH REGISTER CO, 61-67, RES. ASSOC, RES. DEVELOP. & MFG, 67- Econ. Asn; Statist. Asn; Inst. Math. Statist; Economet. Soc; Soc. Indust. & Appl. Math; Opers. Res. Soc; Asn. Comput. Mach; Inst. Elec. & Electronics Eng; Inst. Mgt. Sci.(ed, 65-). Application on computing machinery in economic and management systems; use of statistics and mathematics in studies of economic and organizational phenomena. Publ: A method for designing irreversible overhead loop conveyors, J. Indust. Eng; A theory of conveyors & Potential for office automation in department stores, 65, Mgt. Sci. Address: 7815 Raintree Rd, Centerville, Ohio 45459.

KYBAL, DR. ELBA GOMEZ del REY de, b. Santa Fe, Argentina, Apr. 1, 15; m. 50; c. 2. ECONOMICS. A.B, Nat. Univ. Litoral, 40; M.A, Radcliffe Col, 45, Ph.D.(econ), 46. Economist, Fed. Reserve Bank of New York, 46-47; econ. affairs officer, UN Hq, 47-56; sr. economist, PAN AM. UNION, 56-67, CHIEF TECH. UNIT ECON. INTEGRATION, 67- Mem, UN Tech. Assistance Mission, Haiti, 48; UN Liaison Mission, Latin Am. fiscal authorities, 48-49; UN Secretariat Gen. Assembly, Paris, 51; Orgn. Am. States meetings, on Oper. Pan Am, 58-60, on Alliance for Progress, 61-67, on econ. integration, 66-67; Int. Coffee Orgn. Mission, El Salvador, Trinidad, Tobago, Dominican Repub, Nicaragua & Guatemala, 65. Econ. Asn. Address: 10806 Alloway Dr, Potomac, Md. 20854.

KYBAL, DR. MILIC, b. Prague, Czech, June 18, 14; nat; m. 50; c. 2. ECONOMICS. Litt.B, Toulouse, France, 32; Dr. Jur, Prague, 37. Lectr. econ, Whittier Col, 40-43; Iowa, 43-44; assoc. field rep, Off. War Info, N.Y. & Eng, 44-45; polit. intel. officer, U.S. Mil. Govt, Germany, 45-46; economist, Fed. Reserve Bank, N.Y, 47-48; econ. affairs officer, UN Econ. Cmn. Latin Am, Santiago, Chile, 48-50, chief, Wash. off, 57-60, econ. affairs officer, UN Hqs, 50-56; ADV. FINANCIAL STUDIES, INTER-AM. DEVELOP. BANK, 60- Econ. Asn. International financial and trade relations; capital markets; economic development. Publ: Co-auth, Foreign capital in Latin America. Address: 10806 Alloway Dr, Potomac, Md. 20854.

KYLE, PROF. LEONARD R(AY), b. Louisville, Ohio, Oct. 31, 18; m. 41; c. 2. AGRICULTURAL ECONOMICS. B.S, Mich. State Col, 40; M.S, Purdue, 49, Ph.D.(agr. econ), 53. Farm mgt. exten. specialist, Illinois, 53-54; from asst. prof. to PROF. AGR. ECON, EXTEN, MICH. STATE, 54- Mich. State Univ. consult, Colombia & Argentina. U.S.A, 40-46, Maj. Agr. Econ. Asn. Farm management; technical assistance in South America; cost studies; electronic records. Address: 2340 Shawnee Trail, Okemos, Mich. 48864.

KYLLONEN, DR. RONALD R(UDOLPH), b. Duluth, Minn, Nov. 1, 31; m. 56; c. 4. PSYCHIATRY. B.A, Minnesota, 53, M.D, 57. Asst. prof. child psychiat, sch. med, Wisconsin, 62-64; CHIEF ADOLESCENT SERV, ANOKA STATE HOSP, 64- Consult, Lad Luke, Inc, Martin Luther Home & Wis. Div. Children & Youth, 62-64; Bar-None Ranch & Volunteers of Am, 64- Psychiat. Asn. Adolescent, child and community psychiatry; family dynamics. Publ: Body image—reaction to amputations, Conn. Med, 1/64; co-auth, Management of emotional symptoms in children, Med. Times, 6/64; auth, Behavior: disturbed or disturbing?, Nat. Ed. Asn. J, 9/64. Address: Anoka State Hospital, Box 511 Anoka, Minn. 55303.

KYLLONEN, DR. TOIMI E(NOCH), b. Chicago, Ill, Dec. 30, 13; m. 40; c. 2. SOCIOLOGY. A.B, Bucknell, 35, M.A, 36; Ph.D.(sociol), Minnesota, 50. Instr. SOCIOL, Minnesota, 37-40, 45-48; Stephens Col, 40-45; MISSOURI, 48-50, asst. prof, 50-54, ASSOC. PROF, 54- Fulbright res. grant, Finland, 54-55. Sociol. Asn. Experimental sociology. Address: Dept. of Sociology, 205 Sociology, University of Missouri, Columbia, Mo. 65201.

KYMN, DR. KERN O, b. Chollanamdo, Korea, Feb. 29, 26. ECONOMICS, STATISTICS. B.A, Wilmington Col, 55; Ph.D.(econ), Chicago, 64. Programmer, comput. center, Univ. Chicago, 64-65; ASST. PROF. statist, Marquette, 65-66; ECONOMET, MISSOURI, ST. LOUIS, 66- Econonet. Soc; Statist. Asn; Econ. Asn. Demand for money and currency; limited-information-subsystem-of-equations method. Publ: Distribution of the transformed sample correlation coefficient under the Null hypothesis, Econometrica, 10/67; Letter to the editor, Am. Statistician, 12/67. Address: Dept. of Economics, University of Missouri, St. Louis, Mo. 63130.

KYRE, DR. MARTIN THEODORE, JR, b. Alden, N.Y, Feb. 27, 28; m. 55. POLITICAL SCIENCE. B.A, Ohio Wesleyan, 50; M.A. & Ph.D.(polit. sci), Washington (Seattle), 62. Asst. prof. GOVT, Texas A&M, 59-63; ASSOC. PROF, TEX. TECH. COL, 63-, founder & dir, Peace Corps Training Center, 65-66. Res. grant, Tex. Tech. Col, 67-68. U.S.A.R, 66-67, Maj. Polit. Sci. Asn. National security policy. Publ: Co-auth, Military occupation and national security, Public Affairs, 68. Address: Dept. of Government, Texas Technological College, Lubbock, Tex. 79409.

KYRIAKIDES, DR. STANLEY, b. Kaimakli, Cyprus, Nov. 2, 31; U.S. citizen. POLITICAL SCIENCE. B.A, Brooklyn Col, 58; M.B.A, N.Y. Univ, 60, fel, 61-62, Ph.D.(polit. sci), 67. Asst. trader, Internatio-Rotterdam, Inc, 58-60; instr. POLIT. SCI, Texas A&M, 64-65; ASST. PROF, PATERSON STATE COL, 65- U.S.A, 51-53. Polit. Sci. Asn; Am. Acad. Arts & Sci; Acad. Polit. & Soc. Sci. Comparative government; investigation of concepts related to the phenomenon of political development. Publ: Cyprus: constitutionalism and crisis government, Univ. Pennsylvania, 5/68; The study of politics, Kypros, 3/61. Address: 502 Hudson St, Hoboken, N.J. 07030.

KYSER, WALTER EUGENE, b. Birmingham, Ala, Sept. 10, 25; m. 59. PERSONNEL PSYCHOLOGY. B.C.S, Georgia, 50; M.A, George Washington, 55. Placement officer, bur. ships, U.S. Dept. Navy, 50-52, psychologist, 52-61; personnel res. & training officer, U.S. GEOL. SURV, 61-63, MANPOWER & MGT. RES. OFFICER, 63- Chief abstr, Personnel Mgt. Abstracts, 55-63. U.S.A.A.F, 44-45. AAAS; Psychol. Asn; Pub. Personnel Asn; Soc. Personnel Admin.(ed. pamphlets, 58-59); Acad. Polit. & Soc. Sci; Acad. Polit. Sci; N. Y. Acad. Sci. Personnel administration and research: employee and career development; training; recruitment; selection; placement; testing and test validation; public administration; psychometrics; criterion development; management analysis; manpower utilization research. Publ: Supervisory selection plan, Personnel Admin; Selection of engineers; Education and the federal laboratories, 68. Address: 4209 Duvawn St, Alexandria, Va. 22310.